Transport and Technical Services Department
Municipal Services
P.O. Box 412, States Offices
South Hill, St Helier
Jersey JE4 8UY
Tel: +44 (0)1534 445509
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[redacted] 03 January 2008

The Jersey Electricity Company
The Powerhouse
PO Box 45
Queens Road
St Helier
JE4 8NY

Our ref: KA/JG 35/15

Dear [redacted]

90kV duct installation along St Aubin's Bay Promenade

Following complaints from our Parks and Gardens Section we inspected the condition of the reinstatement of the cable route along the cycle track and grass areas.

We are appalled at the condition that your contractor has left the grass reinstatement along the route. We noticed that the surface of the ground is covered with stones and glass. The surface is also rutted and uneven. Both of these hazards will make it impossible to cut grass safely in the spring. The general condition your contractor has left the landscaping is poor.

We noted freshly cracked concrete and asphalt to the surfaces either side of the reinstatement route and poor quality reinstatement to the kerb edgings. We are currently checking the asphalt surface for compliance with the HAUC specification.

You are therefore requested to instruct your contractor to contact [redacted] on [redacted] to undertake snagging and agreed remedial works at no cost to this department.

Until these works are made good to the satisfaction of this department we reserve the right to refuse access to the area to continue works.

Yours sincerely

[redacted]
Manager - Highways and Infrastructure

direct dial: +44 (0)1534 [redacted]
email: [redacted]
www.gov.je

[redacted]

From: [redacted]
Sent: 08 January 2008 13:11
To: [redacted]
Cc: [redacted]
Subject: St Auburn's Bay JEC route

[redacted]
This morning I walked the JEC 90Kv route from Bel Royal Car Park to Car Park near Tyneville Lane with JEC/Vanne/Pallot to carry out an initial visual inspection. I will list my observations and JEC's actions.
JEC confirmed they have took photographs prior to commencing the job which we may view them if needed.

Landscaping (for [redacted])
Vannie are on site laying down topsoil for reinstating the grass areas. I have reminded then that after (say) 2 moths weathering, they will be expected to stone pick these areas. I understand JEC/Vannie have placed an order with Parks Dept to carry out the grassing. JEC need to advise Park Dept when.

Granite and Concrete Promenade area (for [redacted])
Only two small concrete patches are to be taken up and replaced in asphalt.
The concrete slab reinstatements have been made in asphalt and often of an irregular shape that looks aesthetically poor. I do not suggest these are remove now that the job has been almost finished.
JEC have agreed to grout gaps and new cracks locally to their trench.
Dave, as you are more aware of the general condition of these slabs, please note any new slab movement and advise if JEC proposal needs further thought. JEC need to invite us to walk this site again just before the maintenance period is up. I need to be convinced the concrete slabs will not notably move after a few sea overtopping.

Concrete footpath edgings.
Two particular locations were viewed and in my view of poor workmanship. It was agreed to replace these sections.

Cycleway / footpath.
I plan to carry out some further inspection and I will advise JEC/Pallot of my checks.
Several local area (eg joints and ponding) were identified for replacement.
One panel of say 2m x 4m is to be jointly paid between JEC and TTSd.
One depression at the Bel Royal car park entrance will be repaired.
The composite construction of sand asphalt overlaid on concrete slabs has existing reflective cracking. Where these cracks and new cracks have notably opened up, the cracks will be mastic sealed. Again we need to re-inspect prior to end of maintenance.
One further opening will be need for cable pulling. Some of the remedials may be done at that time.

Regards [redacted]
Highway Maintenance
Transportation & Technical Services Department
Tel 01534 [redacted]

[redacted]

From: [redacted]
Sent: 10 January 2008 15:25
To: [redacted]
Cc: [redacted]
Subject: 90 KV route
Attachments: 90 Kv 069.jpg; 90 Kv 071.jpg; 90 Kv 072.jpg; 90 Kv 073.jpg; 90 Kv 074.jpg; 90 Kv 075.jpg; 90 Kv 076.jpg; 90 Kv 077.jpg; 90 Kv 078.jpg; 90 Kv 079.jpg; 90 Kv 080.jpg; 90 Kv 081.jpg; 90 Kv 082.jpg

Hi [redacted]
Let me know if email is too bid to open due to the enclosed photos.

From our joint walk through, below are patches identified for immediate attention. (The photos are not exhaustive eg car park entrance).
Patch A 90 Kv 069.jpg
Patch B 90 Kv 071.jpg
Patch C 90 Kv 072.jpg
Not previously identified but to be replaced 90 Kv 073.jpg
Patch D 90 Kv 074.jpg
Patch E 90 Kv 075.jpg
Patch F 90 Kv 076.jpg
Patch G 90 Kv 077.jpg
Patch H 90 Kv 078.jpg
Patch I 90 Kv 079.jpg (cost 50% / 50%)
Patch J 90 Kv 080.jpg cancel replacement. Leave in.
Patch K 90 Kv 081.jpg cancel replacement. Leave in.
Patch L 90 Kv 082.jpg

I appreciate your agreement to carry out some remedial works as discussed during our joint inspection. I request another joint inspection in 12 months time because I am concerned some further slab movement will occur. I have observed mortar cracks adj JEC trench at granite edges. Several new concrete cracks which even after your proposed grouting remedial action can open up further. The old reflective cracks which you propose to mastic seal I expect may open further.

I will be asking [redacted] to keep updated regarding this area.

Regards [redacted]
Highway Maintenance
Transportation & Technical Services Department [redacted]

[redacted]

From: [redacted]
Sent: 18 February 2008 09:40
To: [redacted]
Cc: [redacted]
Subject: RE: St Aubin 90KV route

[redacted]

The answer to your question is yes. I propose date will be February 2008. The cracks I believe to be new and I will seek further advice.

The areas I found on file that we inspected encompassed:-
JEC 100477 Burger Bar to Parish Boundary. Completed 13/5/07. [redacted] will therefore contact you in april 2008
JEC 100604 Tyneville lane crossing Victoria Ave. Completion date not yet logged by JEC.
JEC 100670 Galet to First Tower. Completion date not yet logged by JEC but say Feb 2008 (excluding jointing area yet to be carried out).

The walk through inspection was due to complaints. [redacted] was not happy about the condition of some areas of the landscaping, others were very concerned about new cracks and settled cracks opening up, and I simply wanted the promanade adequately safe for the public and cyclists in the short term.

The 9 patches were just that. We will need a joint inspection just before your maintenance period is up along the promanade (Say Feb 2009) Until that date, the reinstatements and any future pavement movement remains your responsibility.

I will raise the subject of the concrete again within our department as we are all rather concerned that the resent work has given us future problems along the promonade.

Regards [redacted]
Highway Maintenance
Transportation & Technical Services Department [redacted]

-----Original Message-----
From: [redacted]
Sent: 15 February 2008 09:36
To: [redacted]
[redacted]
Subject: RE: St Aubin 90KV route

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[redacted]

I have asked Vanni for clarification as to the completion of the original snagging list. Are these 'new' cracks? Do we need a further site visit?

Regards,

[redacted]

-----Original Message-----
From: [redacted]
Sent: 15 February 2008 09:25
To: [redacted]
Cc: [redacted]
Subject: St Aubin 90KV route

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Hi [redacted]
Thought I should give you these photos for your file. I took them yesterday.

Regards [redacted]
Highway Maintenance
Transportation & Technical Services Department
[redacted]

<<St Aubin bay JEC 005.jpg>> <<St Aubin bay JEC 006.jpg>> <<St Aubin bay JEC 001.jpg>> <<St Aubin bay JEC 002.jpg>> <<St Aubin bay JEC 003.jpg>> <<St Aubin bay JEC 004.jpg>>

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The Jersey Electricity Co Ltd

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[redacted]

From: [redacted]
Sent: 03 April 2008 10:27
To: [redacted]
Cc: [redacted]
Subject: Victoria Avenue JEC trench lines

Hi [redacted]
I carried out a walked inspection with Jeremy of the JEC trench between the start of the future resurfacing (Bel Royal) to the Westbound 'IN' of the car park.

There were 3 depressions at the car park area. (No 1 at the entrance, No 2 in the footway, No 3 on the left hand wheel line westbound c/way of Victoria Ave)
The trench appears fine until you approach the garage. At the garage, the trench shows some settlement.

Now that I have seen the future white lining drawing, I can see that this location will get trafficked (currently this only occurs when the Petrol Tanker is delivering petrol). From the drawings, the existing kerbline moves into the carriageway.

My suggestions would be:-
(a) to repair the 3 nr patches within the future contract.
(b) to strength the JEC trench between Ch 10 and Ch 50 across the width of the trench (say) 2m wide….80 sq m Glassgrid

Instead of strengthening the trench by excavation methods, using Glassgrid plastic reinforcement laid below the surface course.

The costs should be back charged to JEC.

I will call [redacted] on Monday for his thoughts.

Regards [redacted]
Highway Maintenance
Transportation & Technical Services Department
[redacted]

Transport and Technical Services Department
Municipal Services
P.O. Box 412, States Offices
South Hill, St Helier
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[redacted] 01 May 2008

Jersey Electricity Company
The Powerhouse
P O Box 45
Queens Road
St Helier
JE4 8NY

Our ref: KA/JG 38/1

Dear [redacted]

We have decided to write to you to express our concern about the operational performance of your Term Contractor (Vanni Ltd) and the quality of reinstatement.

The condition of the promenade has caused us some concern since Vanni installed the 90 KV cable along the cycle lane, promenade and grassy areas of Victoria Avenue. We wrote to you on 03 January 2008 expressing our concern about the quality of reinstatement. The poor surface has now resulted in a tripping injury to a member of the public. We have paid the claimant and request that you reimburse us accordingly. This will be separately invoiced.

Following further inspections by our office it is apparent that the asphalt surface is not acceptable to this Department and will not be accepted. The undulations in the surface are also indicative that the trench is settling differentially along its length, indicating that there may be an issue associated with sub-standard compaction of trench fill. As you will appreciate, the trench line is adjacent to the sea wall and subject to occasional overtopping and subsequent sea water inundation.

Please advise this Department what action you are going to take to restore the asphalt and concrete pavement promenade to its existing condition.

We also would like to place on record our dissatisfaction with Vanni's performance on the St Aubin's Inner Road JEC pit construction. During the last few days of this project our staff were involved in an excessive amount of site inspection. We were concerned that the road reinstatement including the removal of trench supports would not be undertaken correctly. The centreline of the road had already dropped 35mm local to the construction of the pit causing concern about the make up of the road on the adjacent carriageway.

Mr Thorne spent nine hours over the last few days of the project ensuring that the reinstatement of the trench was adequate. We reserve the right to charge the JEC for this increased attendance. More worrying, the site operatives did not seem to have much of an idea of how to extract the trench sheeting and ensure that the resulting

voids were filled. It was left to [redacted] to offer advice. This is not acceptable. Vanni staff should have been running this project, to a standard set by the JEC.

A further point to note is that on the morning of Tuesday 22 April, which was the day the schools returned, traffic chaos developed around the works. Temporary lights were installed to allow the works to be passed by east and west bound traffic but eastbound traffic was delayed for over 45 minutes travelling into St Helier because the lights were not set for the appropriate traffic flow. This resulted in further visits to site by [redacted] and our Traffic Engineer, [redacted].

The above incidents highlight inadequacies in the knowledge of the site operatives that has prompted the question about whether the Vanni operatives have streetworks and HAUC tickets. It also poses questions about the supervisory capability of the JEC in ensuring that works sponsored by them are undertaken to the standards required of a normally professional utility company.

Are you able to guarantee that future works will be to an acceptable standard, with a competent contractor and without the supervision deficiencies identified above?

We think it would be useful to meet with you to discuss these projects and receive reassurances about future project management and would be grateful if you would contact us to set up a meeting.

Yours sincerely

[redacted]
Manager - Highways and Infrastructure

direct dial: [redacted]
email: [redacted]
www.gov.je

[redacted]

From: [redacted]
Sent: 20 June 2008 10:32
To: [redacted]
Cc: [redacted]
Subject: JEC trench Promenade

[redacted]
I walked the route again with [redacted] with Vanni's Contracts Supervisor.
JEC have agreed to provide me with their site photos.

We discussed the following items but did not make any conclusions:-
1) I have indicated that the majority of the trench route is unacceptable. JEC feel many faults are due to adjacent poor surfaces to marry into.
2) I identified new settlement areas since we walked the site with JEC 10.1.08. I believe further settlement may occur.
3)HAUC p141Notes for Guidance NG2.5 Structural Integrity. Clause 4 speaks of extended interim guarantee period for large or deep excavations. I believe it is therefore reasonable to not adopt this trench this autumn. I am not prepared to accept the guarantee period start date.

My immediate proposals:-
1) Carry out trial holes to check compliance of material used to reinstate the trench.
2) Carry out a full surface irregularity survey looking at 4mm failures aswell as 7mm and 10mm, unfortunately this may take time.
3) Set up a meeting to discuss "Concrete Reinstatement " Suggest Thursday 3 July 2008 Say 10:00 to 12:00
4) Mark up a plan to display areas "unaccepted lengths" "local repairs" "accepted".
5) Set up meeting to discuss TBA for " Surface irregularities"

Regards [redacted]
Highway Maintenance
Transportation & Technical Services Department
[redacted]

PROMENADE ROLLING STRAIGHT EDGE RESULTS

Chainage	Run 1 centre of JW trench Reading mm					Run 2 Adjacent trench Reading mm					Comments
		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	Testing right side of trench
0											
1		4	11	3	pass	5	4	11	6	pass	
2		7	2	2	pass		7	2	3	Fail	
3		10	1	2	fail	7	10	1	1	Fail	
4	10										5m settlement/ponding/photo 1
5											
6											
7	4										**FAIL REPLACE TO RESOLVE PONDING**
8						5					
9											
10						7					strong cross gradient
11	10					10					strong cross gradient
12											
13											
14											
15						4					
16											
17						0					
18						0					
19						0					
20						0					
21						0					
22						0					
23						0					
24						0					
25		Depth mm	No allow	No meas	Pass/ Fail	0	Depth mm	No allow	No meas	Pass/ Fail	Finish Change of gradient
26	4					4					
27		4	11	12	fail		4	11	2	pass	
28		7	2	3	fail		7	2	0	pass	
29	4	10	1	2	fail		10	1	0	pass	
30	6										photo
31											
32											
33											**RSE FAIL**
34	6										
35											
36											
37	5										
38											
39	10										adjacent similar
40						4					
41											
42	10										
43											
44											
45	5										
46	7										
47											
48											
49	5										
50											
51	4										
52											
53	4										
54											

55		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
56	4	4	11	11	pass		4	11	4	pass	
57		7	2	0	pass		7	2	0	pass	
58	6	10	1	0	pass		10	1	0	pass	
59											
60											
61											
62											
63						4					
64						4					
65	5										
66											
67	6										
68											
69											
70	5										
71											
72											
73	6										
74	5					4					
75	6					4					
76											
77											
78											
79	4										
80											
81											
82	4										
83											
84	5										
85		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
86											
87	10	4	11	10	pass		4	11	0	pass	
88		7	2	2	pass		7	2	0	pass	
89		10	1	1	pass		10	1	0	pass	
90											
91	6										
92											
93											
94											
95	6										
96											
97											
98	7										
99											
100											
101	4										
102	5										
103	6										
104											
105											
106											
107											
108											
109	5										
110											
111											
112	4										
113											
114	5										

115		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail		
116	6	4	11	8	pass		4	11	2	pass		
117		7	2	3	fail		7	2	0	pass		
118		10	1	1	pass		10	1	0	pass		
119	7											
120												
121	6											
122												
123												
124	5					4						
125	7											
126												
127	5											
128												
129	10											
130												
131						4						
132	5											
133												
134						0					start of gradient change	
135						0						
136						0						
137						0						
138						0						
139						0						
140						0						
141						0						
142						0						
143						0						
144						0						
145		Depth mm	No allow	No meas	Pass/ Fail	0	Depth mm	No allow	No meas	Pass/ Fail		
146						0						
147		4	11	9	pass	0	4	11	7	pass		
148		7	2	2	pass	0	7	2	1	pass	finish gradient change	
149		10	1	0	pass		10	1	0	pass		
150												
151						6						
152						6						
153	5											
154	7											
155						5						
156						4						
157	4											
158	4					5						
159												
160												
161												
162						4						
163												

164						7					
165		Depth	No	No	Pass/	5	Depth	No	No	Pass/	
166	5	mm	allow	meas	Fail	4	mm	allow	meas	Fail	
167		4	11	12	fail	5	4	11	0	pass	
168	4	7	2	5	fail	10	7	2	0	pass	
169	6	10	1	1	pass		10	1	0	pass	
170	7										
171	5										
172											Discuss/joint survey as original
173											survey not practical
174											
175											
176	4										
177											
178	5										
179	4										stop survey inadequate width
180	8										
181											
182											
183											
184											
185	9										
186											
187	9										
188											
189											
190											
191											
192											
193											
194	10	**END OF WESTERN RUN**									

START OF EASTERN RUN

Chainage	Run 2 centre of JW trench Reading mm	Depth mm	No allow	No meas	Pass/ Fail	Run 2 Adjacent trench Reading mm	Depth mm	No allow	No meas	Pass/ Fail	Comments
500											Ch 500 -529
501	5					10					Pass RSE but fail Settlement and workmanship
502	4	4	11	12	fail		4	11	12	fail	
503		7	2	4	fail	4	7	2	3	fail	
504		10	1	0	pass		10	1	1	pass	
505											see 8 , 9 , 10 , 11
506	7										
507	9					4					
508											
509											
510						4					
511	5					5					
512						4					
513	5										
514											
515											
516	8					5					edge settlement
517						4					
518	4					7					
519	4					4					
520											
521	4										
522											
523	4										
524											
525											
526	7					10					white line therefore ignore?
527											
528						4					
529											
530											Ch 530 - 559 RSE fail
531		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
532		4	11	10	pass		4	11	1	pass	
533	4	7	2	4	fail		7	2	1	pass	
534	6	10	1	0	pass		10	1	1	pass	
535											
536	6					10					
537											
538											
539	8										
540	9										
541	6										
542											
543											
544											
545											
546											
547											
548											
549	7										
550											
551											
552	7										
553											
554											
555	4										
556											
557											
558											west face stn café
559	5										

560		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	Ch 560 - 579 RSE fail
561											
562		4	11	10	pass		4	11	8	pass	
563	7	7	2	4	fail		7	2	2	pass	
564	9	10	1	1	pass		10	1	1	pass	ref: centre of shelter
565											
566	6					4					
567						6					
568											
569	6										
570						4					
571						5					
572	5										
573	5										
574											
575	5										
576											
577											
578											
579											
580	10										start of JEC joint pit
581											JEC pit
582						9	MH ie ignore say 5mm				JEC pit
583	6										JEC pit
584											JEC pit
585						8					JEC pit
586						6					JEC pit
587						10					JEC pit
588	8										JEC pit
589											JEC pit
590		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	JEC pit
591											JEC pit
592		4	11	8	pass		4	11	3	pass	JEC pit
593		7	2	1	pass	10	7	2	3	fail	JEC pit
594	6	10	1	0	pass		10	1	3	fail	JEC pit
595											JEC pit
596											JEC pit
597						JEC					JEC pit
598						10	JEC				JEC pit
599											JEC pit
600	5					10	JEC				JEC pit
601											JEC pit
602											finish of JEC trench
603	5										All joints failing
604											All joints failing
605											All joints failing
606	8										All joints failing
607											All joints failing
608											All joints failing
609	4										All joints failing
610											All joints failing
611	4										All joints failing
612	6										All joints failing
613											All joints failing
614											All joints failing
615											All joints failing
616											All joints failing
617											All joints failing
618											All joints failing
619	6										All joints failing

620		Depth	No	No	Pass/		Depth	No	No	Pass/	
621	4	mm	allow	meas	Fail		mm	allow	meas	Fail	
622	5	4	11	10	pass		4	11	0	pass	
623		7	2	2	pass		7	2	0	pass	
624		10	1	1	pass		10	1	0	pass	Asphalt adjacent trench settled and joints failing
625											Asphalt adjacent trench settled and joints failing
626											Asphalt adjacent trench settled and joints failing
627	4										Asphalt adjacent trench settled and joints failing
628											Asphalt adjacent trench settled and joints failing
629	6										Asphalt adjacent trench settled and joints failing
630											Asphalt adjacent trench settled and joints failing
631	4										Asphalt adjacent trench settled and joints failing
632											Asphalt adjacent trench settled and joints failing
633											Asphalt adjacent trench settled and joints failing
634	5										Asphalt adjacent trench settled and joints failing
635											Asphalt adjacent trench settled and joints failing
636											Asphalt adjacent trench settled and joints failing
637	4										Asphalt adjacent trench settled and joints failing
638											Asphalt adjacent trench settled and joints failing
639											Asphalt adjacent trench settled and joints failing
640	8										Asphalt adjacent trench settled and joints failing
641											Asphalt adjacent trench settled and joints failing
642	4										Asphalt adjacent trench settled and joints failing
643											Asphalt adjacent trench settled and joints failing
644											Asphalt adjacent trench settled and joints failing
645											Asphalt adjacent trench settled and joints failing
646											Asphalt adjacent trench settled and joints failing
647	10										Asphalt adjacent trench settled and joints failing
648											Asphalt adjacent trench settled and joints failing
649											Asphalt adjacent trench settled and joints failing
650	7	Depth	No	No	Pass/		Depth	No	No	Pass/	Ch 650 - 679 RSE fail
651		mm	allow	meas	Fail		mm	allow	meas	Fail	
652	7	4	11	7	pass		4	11	2	pass	
653		7	2	3	fail		7	2	0	pass	
654		10	1	1	pass		10	1	0	pass	
655	10										
656											
657											
658						4					ref : centre of shelter
659	4					5					
660											
661											
662											
663											
664											
665	5										
666											
667											
668											
669											
670	4										
671											
672	4										
673											
674											
675											
676											
677											
678											
679											

680		Depth	No	No	Pass/		7	Depth	No	No	Pass/	
681		mm	allow	meas	Fail			mm	allow	meas	Fail	
682		4	11	4	pass			4	11	1	pass	
683		7	2	1	pass			7	2	1	pass	
684		10	1	0	pass			10	1	0	pass	
685	7											
686												
687												
688	5											
689	4											
690												See photo Ch 690
691												
692												
693												
694												
695												
696												
697												
698												
699												local cracks will develop
700												local cracks will develop
701												local cracks will develop
702												local cracks will develop
703												local cracks will develop
704	4											local cracks will develop
705												local cracks will develop
706												local cracks will develop
707												local cracks will develop
708												local cracks will develop
709												local cracks will develop
710		Depth	No	No	Pass/		4	Depth	No	No	Pass/	
711		mm	allow	meas	Fail			mm	allow	meas	Fail	
712		4	11	4	pass			4	11	4	pass	
713		7	2	0	pass		4	7	2	1	pass	
714		10	1	0	pass			10	1	0	pass	
715	4											
716												
717												joints require over banding
718												joints require over banding
719	5											joints require over banding
720							8	**cross trench**				joints require over banding
721												joints require over banding
722	4											joints require over banding
723							6					joints require over banding
724												joints require over banding
725												joints require over banding
726												
727												
728												
729												
730												
731												
732	4											
733												
734												
735												
736												
737												
738												
739												

740		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**	
741		4	11	3	pass	4	4	11	6	pass	
742		7	2	1	pass		7	2	1	pass	
743		10	1	1	pass		10	1	0	pass	
744											
745											
746						4					
747											
748	10					8	cross trench by others ie ignore				
749											
750											
751						6					
752											
753						4					
754	6										
755											
756											
757	5										
758											
759											
760						5					
761											
762											white lines therefore ignore
763											white lines therefore ignore
764											white lines therefore ignore
765											white lines therefore ignore
766											white lines therefore ignore
767											white lines therefore ignore
768											white lines therefore ignore
769											white lines therefore ignore
770		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**	white lines therefore ignore
771		4	11	7	pass		4	11	6	pass	white lines therefore ignore
772		7	2	2	pass		7	2	3	fail	white lines therefore ignore
773		10	1	1	pass		10	1	0	pass	white lines therefore ignore
774											white lines therefore ignore
775											
776											RSE pass but adjacent cracks not acceptable
777						7					Area with heavy cracks & over banding replace area in total
778											
779						8					
780						5	These results are JEC overbanding				
781	8										
782						6					
783											Adjacent surface has rotated due to settlement
784	4										
785						8					
786						6					
787											
788											
789											
790	5										
791	6										
792											
793											
794	5										
795											
796						8					
797	5										
798	10										
799											

800		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
801											
802		4	11	4	pass	4	4	11	2	pass	white lines therefore ignore
803		7	2	1	pass		7	2	1	pass	white lines therefore ignore
804		10	1	0	pass		10	1	0	pass	white lines therefore ignore
805											white lines therefore ignore
806											white lines therefore ignore
807											white lines therefore ignore
808											white lines therefore ignore
809											white lines therefore ignore
810											white lines therefore ignore
811											white lines therefore ignore
812											white lines therefore ignore
813											white lines therefore ignore
814											white lines therefore ignore
815											
816											
817											
818											
819											
820	7										
821											
822	5										
823											
824											
825											
826	5										
827											
828	4										utility x trench
829						6					
830		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
831											
832	4	4	11	6	pass		4	11	2	pass	
833	5	7	2	1	pass		7	2	0	pass	
834		10	1	0	pass		10	1	0	pass	
835											
836											
837											
838											
839	8										
840						4	cross trench				
841						4					Joints need overbanding
842											
843											
844											
845	5										
846											
847											
848											
849	5										
850											
851											
852											
853											
854											
855											
856	5										
857											
858											
859											

860		Depth	No	No	Pass/		4	Depth	No	No	Pass/
861	4	mm	allow	meas	Fail			mm	allow	meas	Fail
862	5	4	11	7	pass			4	11	5	pass
863		7	2	2	pass			7	2	2	pass
864		10	1	0	pass			10	1	1	pass
865											
866							4				
867											
868											
869											
870	7										
871	8						7	cross trench			
872							10				
873	4										
874											
875											
876											
877											
878											
879											
880	6										
881											
882											
883											
884											
885	5						5				
886											
887											
888											
889											
890		Depth	No	No	Pass/			Depth	No	No	Pass/
891		mm	allow	meas	Fail			mm	allow	meas	Fail
892		4	11	6	pass		4	4	11	2	pass
893		7	2	0	pass			7	2	0	pass
894		10	1	0	pass			10	1	0	pass
895											
896											
897											
898											
899											RSE pass but isolated settlement locations
900							6	**settlement**			
901											
902	4										
903	6										
904											
905											
906	6										
907	4										
908											
909											
910											
911	4										
912											
913											
914	5										
915											
916											
917											
918											
919											

920		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	Ch 920 - 949 RSE fail
921											
922		4	11	6	pass		4	11	3	pass	
923		7	2	3	fail		7	2	0	pass	
924		10	1	1	pass		10	1	0	pass	
925											
926											
927											
928											
929											
930											
931	6										
932											
933	5					4	white line				
934	7										
935											
936	10										
937											
938											
939											
940											
941											
942											
943						4					
944											
945	5										
946						4					
947	7										
948											
949											
950		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
951											
952		4	11	5	pass		4	11	6	pass	
953		7	2	2	pass	4	7	2	1	pass	
954		10	1	1	pass		10	1	0	pass	
955	10					6	overbanding				
956											RSE paa but slab rotation + opened joints + pit area
957											
958	4										
959											
960											
961											
962						9					
963						4	jec settlement				
964											
965											
966											
967	6					7	adj jec mh therefore ignore				inspection lid
968						10	adj jec mh therefore ignore				
969											
970											
971	6					5					
972											
973											
974											
975						4					
976											
977											
978											
979	9										

980		Depth	No	No	Pass/	4	Depth	No	No	Pass/	Ch 980 - 1009 RSE fail
981	7	mm	allow	meas	Fail		mm	allow	meas	Fail	
982		4	11	11	pass		4	11	3	pass	
983		7	2	3	fail		7	2	0	pass	
984		10	1	0	pass	6	10	1	0	pass	
985											
986	5					4					
987											
988	7										
989											
990											
991	4										
992											
993											
994											
995											
996	6										
997											
998											
999	4										
1000											
1001											
1002	6										
1003	9										
1004	5										
1005											
1006	5										
1007											
1008											
1009	5										
1010		Depth	No	No	Pass/		Depth	No	No	Pass/	see photos
1011		mm	allow	meas	Fail		mm	allow	meas	Fail	
1012	4	4	11	10	pass		4	11	1	pass	
1013	5	7	2	2	pass		7	2	0	pass	
1014		10	1	0	pass		10	1	0	pass	
1015	8										
1016	5										
1017	5										
1018	4										
1019											
1020											
1021											
1022	9										
1023											
1024						4					
1025	5										
1026											
1027											
1028											
1029	4										
1030											
1031											
1032	5										
1033											
1034											
1035											
1036											
1037											
1038											
1039											

1040		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**	
1041											
1042	6	4	11	10	pass		4	11	0	pass	
1043		7	2	1	pass		7	2	0	pass	
1044		10	1	0	pass		10	1	0	pass	
1045	4										
1046											
1047	5										
1048											
1049	5										
1050											
1051	5										
1052											
1053	9										
1054											
1055	4										
1056											
1057											
1058	4										
1059	4										
1060											
1061											
1062											
1063											
1064											
1065											
1066											
1067	4										
1068											
1069											
1070		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**	
1071	5										
1072		4	11	11	pass		4	11	1	pass	
1073		7	2	1	pass		7	2	0	pass	
1074		10	1	0	pass		10	1	0	pass	
1075											
1076	4										
1077											
1078	4										
1079											
1080	4										
1081	5										
1082	5										
1083											
1084											
1085	6										
1086											
1087	5										
1088											
1089											
1090											
1091											
1092											
1093											
1094											
1095	4										
1096	9										
1097											
1098											
1099	6					4					

1100		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	ch 600
1101	4										
1102		4	11	6	pass		4	11	8	pass	
1103		7	2	1	pass		7	2	3	fail	
1104		10	1	0	pass		10	1	1	pass	
1105											
1106											
1107	5					4					JG X trench
1108						7					
1109											
1110											
1111	6										
1112						4					
1113											
1114											
1115											
1116	5										
1117											
1118											
1119						9					
1120											
1121											
1122											
1123	7					4					
1124											
1125						4					
1126						10					**WHY??**
1127						4					
1128											
1129	4										
1130		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
1131											
1132		4	11	5	pass		4	11	0	pass	
1133		7	2	0	pass		7	2	0	pass	
1134		10	1	0	pass		10	1	0	pass	
1135											
1136											
1137											
1138											
1139											
1140	4										JEC trial hole temp to be reinstated
1141											
1142											
1143											
1144											
1145											
1146											
1147	4										
1148											
1149											
1150											
1151											
1152											
1153											
1154											
1155	5										
1156	6										
1157											
1158	4										
1159											

1160	4	Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	Ch 1160 - 1189 RSE fail
1161		4	11	7	pass		4	11	0	pass	
1162		7	2	3	fail		7	2	0	pass	
1163		10	1	0	pass		10	1	0	pass	
1164											
1165	9										
1166											
1167											
1168	7										
1169											
1170											
1171											
1172											
1173											
1174	9										
1175											
1176											
1177											
1178											
1179											
1180											
1181	5										
1182											
1183											
1184	5										
1185											
1186	5										
1187											
1188											
1189											
1190	5	Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
1191		4	11	6	pass		4	11	0	pass	
1192	4	7	2	2	pass		7	2	0	pass	
1193		10	1	0	pass		10	1	0	pass	
1194											
1195											
1196	8										
1197											
1198											
1199											
1200											
1201											
1202											
1203											
1204											
1205											
1206	5										
1207						4					JG trench
1208	5					7					JG trench
1209											
1210											
1211											
1212						4					
1213											
1214											
1215											
1216	7										
1217											
1218											
1219						9					JEC trench extension

1220		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	Ch 1220 - 1249 RSE fail
1221											
1222	4	4	11	12	fail		4	11	6	pass	
1223		7	2	1	pass	4	7	2	1	pass	
1224	4	10	1	0	pass		10	1	1	pass	
1225	4					4					
1226						10					
1227						4					
1228											
1229											
1230						4					
1231	5										
1232											
1233	4										
1234	4										
1235											
1236	4										
1237	5										
1238											
1239											
1240	8					5					JEC trench extension
1241											
1242											
1243	5										
1244	6										
1245											
1246											
1247											
1248	4										
1249											
1250		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	Small patch reqired due to settlement
1251											
1252		4	11	11	pass		4	11	0	pass	Joints poor
1253	6	7	2	0	pass		7	2	0	pass	
1254	5	10	1	0	pass		10	1	0	pass	
1255											
1256	5										
1257	6										
1258											
1259	5										
1260											
1261	5										
1262											
1263											
1264											
1265	6										edge depression
1266											
1267	4										
1268											
1269											
1270											
1271	4										
1272											
1273	5										
1274											
1275											
1276											
1277											
1278	4										
1279											

		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
1280											Ch 1280 - 1309 RSE fail
1281											
1282		4	11	9	pass		4	11	5	pass	
1283		7	2	5	fail		7	2	4	fail	ponding
1284		10	1	2	fail	10	10	1	1	pass	local hollow start
1285	10										local hollow
1286											local hollow
1287											local hollow end
1288											
1289	5										
1290											
1291											
1292											
1293	10										
1294	7										
1295						7					
1296						7					
1297	6										
1298											
1299											
1300											
1301											
1302	4										
1303	6										
1304	7					4					
1305											
1306											east end first tower café
1307											
1308	9										
1309						8					JEC trench extension
1310		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
1311											
1312	4	4	11	8	pass	4	4	11	9	pass	check trench settlement
1313	8	7	2	3	fail		7	2	3	fail	
1314		10	1	0	pass	10	10	1	1	pass	JEC trench extension
1315											
1316											
1317	4										
1318											
1319	4										
1320											
1321	5					4					Accept as adjacent area of equal poor quality
1322											just repair minimum patches
1323											
1324											
1325											
1326						10	MH ie ignore				Traffic MH lid
1327											
1328											
1329	9										
1330						5					
1331											
1332	6					10					
1333											
1334											
1335											
1336						4					
1337	7					5					
1338						6					
1339											

		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
1340											
1341						10					
1342	7	4	11	7	pass		4	11	11	pass	
1343		7	2	7	fail	10	7	2	8	fail	
1344		10	1	1	pass		10	1	4	fail	
1345	10					5					
1346						7					
1347											
1348						8					
1349											
1350						7					
1351						4					
1352						7					
1353	8										
1354						10					**WHY ????**
1355											
1356	8					6					
1357						10					
1358											
1359											
1360	8					0					trench full width
1361						0					trench full width
1362						0					trench full width
1363						0					trench full width
1364	8					0					trench full width
1365						0					trench full width
1366						0					trench full width
1367	9					0					trench full width
1368						0					trench full width
1369						0					trench full width
1370		Depth mm	No allow	No meas	Pass/ Fail	0	Depth mm	No allow	No meas	Pass/ Fail	Ch 1370 - 1399 RSE fail
1371						0					trench full width
1372	4	4	11	8	pass	0	4	11	0	pass	trench full width
1373		7	2	5	fail	0	7	2	0	pass	trench full width
1374		10	1	1	pass	0	10	1	0	pass	trench full width
1375						0					trench full width
1376	8					0					trench full width
1377						0					trench full width
1378						0					trench full width
1379						0					trench full width
1380						0					trench full width
1381						0					trench full width
1382	6					0					trench full width
1383						0					trench full width
1384	7					0					trench full width
1385						0					trench full width
1386						0					trench full width
1387	7					0					trench full width
1388						0					trench full width
1389						0					trench full width
1390						0					trench full width
1391	8					0					trench full width
1392						0					trench full width
1393	4					0					ponding rhs
1394						0					trench full width
1395						0					trench full width
1396						0					trench full width
1397	10					0					trench full width
1398						0					trench full width
1399						0					trench full width

1400		Depth mm	No allow	No meas	Pass/ Fail	0	Depth mm	No allow	No meas	Pass/ Fail	Ch 1400 - 1429 RSE fail
1401	4					0					trench full width
1402		4	11	13	fail	0	4	11	0	pass	trench full width
1403	8	7	2	7	fail	0	7	2	0	pass	trench full width
1404		10	1	3	fail	0	10	1	0	pass	trench full width
1405						0					trench full width
1406	10					0					trench full width
1407						0					trench full width
1408						0					trench full width
1409	10					0					trench full width
1410											
1411	9										
1412											
1413	6										
1414											
1415	5										
1416	4										
1417											
1418											
1419	10										
1420						5					
1421											
1422											
1423	8										
1424											
1425	8										
1426											
1427	4										
1428	4										
1429											
1430	6	Depth mm	No allow	No meas	Pass/ Fail	4	Depth mm	No allow	No meas	Pass/ Fail	Ch 1430 - 1459 RSE fail
1431											
1432		4	11	11	pass		4	11	4	pass	
1433		7	2	3	fail		7	2	0	pass	
1434		10	1	2	fail	6	10	1	0	pass	
1435	6										
1436											
1437	5										
1438	10										
1439	5										
1440											
1441	10										
1442											
1443						4					
1444	5										
1445											
1446											
1447	6										
1448											
1449	4										
1450											
1451											
1452	5										
1453											
1454											
1455											
1456						6					
1457											
1458											
1459	8										

1460		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
1461											
1462		4	11	8	pass		4	11	5	pass	
1463		7	2	2	pass		7	2	0	pass	
1464	7	10	1	0	pass		10	1	0	pass	
1465											
1466	7										
1467											
1468	6										
1469						4					
1470											
1471	5										
1472											
1473											
1474	5										
1475											
1476											
1477	4					6					
1478						5					JEC trench extension
1479						6					JEC trench extension
1480	4					4					JEC trench extension
1481											
1482											
1483											
1484											
1485											
1486											Local patch only required
1487						0					trench settlement
1488	6					0					edge depression +photo
1489						0					trench settlement
1490	8	Depth mm	No allow	No meas	Pass/ Fail	0	Depth mm	No allow	No meas	Pass/ Fail	Ch 1490 - 1519 RSE fail
1491						0					trench settlement
1492	8	4	11	8	pass	0	4	11	0	pass	trench settlement
1493		7	2	4	fail	0	7	2	0	pass	trench settlement
1494		10	1	1	pass		10	1	0	pass	
1495											
1496											
1497											
1498											
1499	5										
1500	6										
1501						0					too narrow to take reading
1502	8										
1503											
1504											
1505	6										
1506											
1507											
1508											
1509	4										
1510	10										
1511											
1512											
1513											
1514											
1515											
1516											
1517											
1518											
1519											

		Depth mm	No allow	No meas	Pass/ Fail		Depth mm	No allow	No meas	Pass/ Fail	
1520											centre of shelter 200m e of
1521											first tower JEC tench
1522	6	4	11	7	pass		4	11	1	pass	centre of shelter 200m e adj
1523		7	2	4	fail		7	2	0	pass	
1524		10	1	0	pass		10	1	0	pass	
1525	8										
1526											Ch 1520 - 1549 RSE fail
1527											
1528	9										
1529											
1530											
1531											
1532	5										
1533											
1534											
1535	5										
1536	8										
1537						4					
1538											
1539											
1540											
1541											
1542											
1543											
1544	8					0					patch required?
1545						0					stop readings check settlement
1546						0					stop readings check settlement
1547						0					stop readings check settlement
1548						0					stop readings check settlement
1549						0					stop readings check settlement
1550	7	Depth mm	No allow	No meas	Pass/ Fail	0	Depth mm	No allow	No meas	Pass/ Fail	stop readings check settlement
1551	7					0					stop readings check settlement
1552		4	11	10	pass	0	4	11	3	pass	stop readings check settlement
1553		7	2	4	fail	0	7	2	3	fail	stop readings check settlement
1554	9	10	1	0	pass	0	10	1	3	fail	stop readings check settlement
1555						0					stop readings check settlement
1556						0					stop readings check settlement
1557	6					0					edge depession
1558						0					stop readings check settlement
1559						0					trench settlement
1560	4					0					re start readings
1561											
1562											
1563	8					10					JEC trench extension
1564											
1565											
1566											
1567											
1568											
1569											
1570											
1571	5										
1572	6										
1573											**WHY ???**
1574	6					10					
1575						10					
1576											
1577											
1578	4										
1579											

1580	4	**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**	
1581											
1582	4	4	11	8	pass		4	11	3	pass	
1583		7	2	2	pass		7	2	1	pass	
1584		10	1	0	pass		10	1	0	pass	
1585											
1586											
1587											
1588											
1589	9					4					JG X trench
1590						4					
1591	4										
1592											
1593											
1594											
1595											
1596											
1597	5										
1598											
1599											
1600											
1601	4										
1602											
1603											
1604											
1605											
1606											
1607	4										
1608						7					
1609	9										
1610		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**		**Depth mm**	**No allow**	**No meas**	**Pass/ Fail**	
1611						6					
1612	4	4	11	8	pass		4	11	3	pass	
1613		7	2	0	pass	6	7	2	0	pass	
1614		10	1	0	pass		10	1	0	pass	
1615											
1616											
1617											
1618											
1619											
1620											
1621	5										
1622											
1623	5										
1624											
1625											
1626											
1627											
1628	4										
1629						5					JEC trench extension
1630											
1631	5										
1632	5										
1633											
1634	4										
1635											
1636											
1637											
1638	6										
1639											

1640		Depth	No	No	Pass/		Depth	No	No	Pass/	Ch 1640 - 1669 RSE fail
1641	7	mm	allow	meas	Fail		mm	allow	meas	Fail	
1642		4	11	6	pass		4	11	1	pass	
1643		7	2	3	fail		7	2	0	pass	
1644		10	1	1	pass		10	1	0	pass	
1645											
1646											
1647											
1648											
1649											
1650											
1651											
1652											
1653											
1654											
1655											
1656											
1657	4										
1658											
1659	5										
1660	10										
1661											
1662						4					
1663											
1664	4										
1665											
1666	8										
1667											
1668											
1669											
1670		Depth	No	No	Pass/		Depth	No	No	Pass/	
1671	4	mm	allow	meas	Fail		mm	allow	meas	Fail	
1672		4	11	7	pass		4	11	1	pass	
1673		7	2	1	pass		7	2	0	pass	
1674		10	1	0	pass		10	1	0	pass	
1675											
1676	4										
1677											
1678											
1679	6										
1680											
1681											
1682						4					
1683											
1684											
1685	4										
1686											
1687	5										
1688											
1689											
1690											
1691											
1692											
1693											
1694											
1695	4										FINISH adj trench
1696	9										
1697											
1698											END JEC trench

TRENCH TURNS TOWARDS TYNEVILLE LANE