

**ANGUS COUNCIL****ROADS COMMITTEE****1 DECEMBER 1998****MONIFIETH STREET LIGHTING****REPORT BY THE DIRECTOR OF ROADS****ABSTRACT**

This Report details the poor standard of street lighting within Monifieth and proposes various means of tackling this problem.

**1 RECOMMENDATIONS**

It is recommended that the Committee agree:-

- (i) to note the Director's concerns pertaining to the poor standard of street lighting within Monifieth;
- (ii) to note that since Angus Council assumed responsibility for Monifieth an enhanced level of investment in the street lighting infrastructure has been provided in Monifieth compared to a pro rata level of expenditure based on the number of street lighting points throughout Angus;
- (iii) to note that a programme of detailed electrical inspections is underway which will allow a comprehensive analysis of the standard and condition of the existing street lighting infrastructure throughout Angus, and that this in turn will provide more detailed information with respect to the prioritisation of expenditure on street lighting improvements;
- (iv) to note that further reports regarding the standard and condition of street lighting throughout Angus will be brought forward in due course as the information from the detailed electrical inspections is gathered and assessed;
- (v) that in the meantime an enhanced level of investment in the street lighting infrastructure in Monifieth compared to other Burghs should continue.

**2 INTRODUCTION**

The Roads Department implemented a programme of detailed electrical inspection and visual inspection of street lighting apparatus within Angus in order to comply with the Electricity at Work Regulations 1989 as detailed in Report No. 477/96 presented to the Roads Committee on 6<sup>th</sup> June 1996.

Prior to 1996 street lighting in Monifieth was managed, maintained and administered by Dundee Division of Tayside Regional Council's Roads and Transport Department.

The other Burghs in Angus were managed, maintained and administered by the Angus Division of the Roads and Transport Department. With Local Government Reorganisation in 1996 the street lighting team in Angus Division effectively became the street lighting section of Angus Council Roads Department, the responsibility for Monifieth transferred to Angus Council and the street lighting records (such as they were) were passed from Dundee Division to Angus Council.

Monifieth was chosen as the first Burgh to be electrically inspected in order that:-

- (i) the existing records which were received from Dundee Division could be improved;
- (ii) a more detailed and personal knowledge of the existing street lighting system could be achieved and
- (iii) it could be determined if the first impressions of the existing street lighting system being of a generally poor standard were accurate.

### 3 **DETAILS**

No figures are available to show the funds committed to street lighting in Monifieth by Dundee Division of Tayside Regional Council's Roads and Transport Department but the scarcity of new street lighting schemes (i.e. 5 to 10 years old) indicates that any expenditure would have been negligible. The only new street lighting installed in Monifieth recently has been provided in conjunction with private developments.

The results of the detailed electrical testing carried out recently are shown in Appendix A and this information confirms that 75% of street lighting within Monifieth is classed as sub-standard in terms of column condition and electrical safety.

Appendix A is a "prioritised" list of streets in Monifieth which require new improved street lighting and details of the methodology used to compile this prioritised list is detailed in Appendix B.

It is calculated that 70% of street lighting is sub-standard due to the excessive design spacing of the existing columns and it is anticipated that the existing number of street lighting columns in Monifieth will have to be increased to meet the current British Standard 5489 for street lighting designs.

The capital street lighting improvement programme for 1996/97 "inherited" from Tayside Regional Council appeared to have no provision included for Monifieth.

Since responsibility for prioritising capital investment in street lighting infrastructure for Monifieth transferred to Angus Council the expenditure/funding for street lighting improvements in Monifieth has been as follows:-

1997/98	£75,000	which was equal to 23% of overall budget for lighting improvements
1998/99	£45,000	which is equal to 18% of overall budget for lighting improvements

It should be noted that Monifieth has 7% of the total number of street lights within Angus. Funding has therefore been weighted towards Monifieth to help to redress the disproportionate under investment of previous years.

It can be seen from Appendix A that the total funding required to tackle this major problem is £1,503,750 at 1998 prices.

If this trend of enhanced pro rata expenditure was to be continued it would therefore take 25 years to upgrade all the sub-standard street lighting within Monifieth.

Alternatively, due to the poor state of the lighting in Monifieth in comparison with other Burghs within Angus it may be possible to further accelerate the funding of projects in Monifieth in order to "catch up" with other Burghs. However if, as seems probable, the capital funding available for the overall programme is likely to remain roughly at its current level in future years, this will obviously result in the "slow down" in the street lighting improvements in other Burghs.

It should be appreciated that there are many areas throughout Angus which require improved street lighting and it would not be possible to commit all available funds to Monifieth at the expense of all other Burghs.

Detailed electrical inspection of all street lights within Angus is being carried out on an ongoing basis on a 6 year cycle and therefore as time evolves a more detailed picture will be gained facilitating a comprehensive analysis of the existing street lighting infrastructure to be concluded and will result in a more exact appreciation of the problem areas requiring funds. This will then give a sound basis for the prioritisation of available funding.

In the meantime there is sufficient evidence from the detailed inspections carried out to date in Monifieth and local knowledge of the standard and condition of street lighting throughout the rest of Angus to justify a weighting of the allocated funding towards Monifieth.

#### 4 FINANCIAL IMPLICATIONS

A proposed provision for street lighting improvements of £350,000 in financial year 1999/2000 is contained in the Roads Department's 1998/2002 Financial Plan bid submission.

## 5 CONSULTATION

The Chief Executive, the Director of Law and Administration and the Director of Finance have been consulted in the preparation of this Report.

### NOTE

No background papers as defined by Section 50D of the Local Government (Scotland) Act 1973 (other than any containing confidential or exempt information) were relied on to any material extent in preparing the above Report.

JMCF/AS  
10 November 1998  
REPORTS/monifieth.st.light



**PRIORITISED LIST OF SCHEMES**

Street Name	Age of Scheme	Method of Supply	Column Condition	Electrical Safety	Scheme Score	Lantern Spacing	Existing Columns	Proposed Columns	Approx Cost Per Column	Total Scheme Cost
South Balmossie Street	25+	Phases	3.00	3.50	3.25	4	5	8	£1,250	£9,375
Airlie Drive/Provest Walk Paths	25+	5th Core	2.27	3.53	2.90	n/a	20	30	£1,250	£37,500
Greenbourne Gardens	25+	5th Core	2.25	3.50	2.88	2	3	5	£1,250	£5,625
Laird Street	25+	5th Core	2.66	3.00	2.83	4	3	5	£1,250	£5,625
Grangehill Drive	25+	Phases/Looped Live	2.23	3.42	2.83	3	24	36	£1,250	£45,000
Milton Street + paths	25+	5th Core/Phases	2.32	3.32	2.82	4	20	30	£1,250	£37,500
Airlie Drive	25+	Phases/Looped Live	2.12	3.50	2.81	3	12	18	£1,250	£22,500
Durham Street	25+	Phases/5th Core	2.70	2.80	2.75	4	12	18	£1,250	£22,500
Rattray Street	25+	Phases/5th Core	2.37	3.12	2.75	3	8	12	£1,250	£15,000
Dalhouse Park	25+	Phases/5th Core	2.12	3.37	2.75	3	9	14	£1,250	£16,875
Adderley Terrace	25+	Phases	2.08	3.38	2.73	3	13	20	£1,250	£24,375
Ferry Road (Grange Road to High Street)	25+	Phases/5th Core	2.10	3.29	2.70	4	20	30	£1,250	£37,500
Wood Lane	25+	Angus Council Network	2.00	3.40	2.70	2	4	6	£1,250	£7,500
Broomhill Drive	25+	Phases/5th Core	2.18	3.18	2.68	3	18	27	£1,250	£33,750
Fotheringham Drive Area	25+	Phases	2.10	3.21	2.66	2	50	75	£1,250	£93,750
Ashludie Terrace	25+	Phases/5th Core	2.16	3.16	2.66	1	11	17	£1,250	£20,625
Tay Court	25+	Phases/5th Core	2.00	3.30	2.65	n/a	10	15	£1,250	£18,750



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Street Name	Age of Scheme	Method of Supply	Column Condition	Electrical Safety	Scheme Score	Lantern Spacing	Existing Columns	Proposed Columns	Approx Cost Per Column	Total Scheme Cost
Beechgrove / Elmgrove / Ashgrove + paths.	25+	Phases/Looped Live	2.07	3.22	2.65	3	35	53	£1,250	£65,625
Adderley Crescent	25+	Phases	2.14	3.15	2.65	3	7	11	£1,250	£13,125
Roundyhill	25+	Angus Council Network	2.06	3.22	2.64	2	19	29	£1,250	£35,625
Waterside/Millhill	25+	5th Core/Phases	2.14	3.14	2.64	1	14	21	£1,250	£26,250
Eithiebeaton Terrace	25+	Phases/5th Core	2.25	3.00	2.63	2	6	9	£1,250	£11,250
The Fairway	25+	Phases/5th Core	2.10	3.14	2.62	2	21	32	£1,250	£39,375
Dalhousie Street	25+	Phases/5th Core	2.11	3.11	2.61	2	24	36	£1,250	£45,000
Panmure Street	25+	Phases/5th Core	2.10	3.10	2.60	3	7	11	£1,250	£13,125
Links Place	25+	Phases	2.00	3.20	2.60	1	5	8	£1,250	£9,375
Grangehill Drive (Malcolm Cres-St Regulus Rd)	25+	Phases/Looped Live	2.00	3.17	2.59	3	8	12	£1,250	£15,000
Malcolm Crescent	25+	Phases/Looped Live	2.09	3.09	2.59	2	12	18	£1,250	£22,500
Buddon Drive	25+	Phases/5th Core	2.06	3.12	2.59	2	18	27	£1,250	£33,750
Erskine Terrace	25+	Phases/5th Core	2.00	3.17	2.59	1	12	18	£1,250	£22,500
High Street (Tay Street to Panmure Street)	25+	Phases/5th Core	2.00	3.14	2.57	3	4	6	£1,250	£7,500
St Regulus Road	25+	Phases/5th Core	2.00	3.13	2.57	2	12	18	£1,250	£22,500
Broomhill Court	25+	Phases/Looped Live	2.00	3.13	2.57	n/a	6	9	£1,250	£11,250
Balmossie Avenue/Place	25+	5th Core/Phases	2.00	3.11	2.56	3	9	14	£1,250	£16,875

**PRIORITISED LIST OF SCHEMES**



Street Name	Age of Scheme	Method of Supply	Column Condition	Electrical Safety	Scheme Score	Lantern Spacing	Existing Columns	Proposed Columns	Approx Cost Per Column	Total Scheme Cost
Provest Walk	25+	Phases/5th Core	2.00	3.12	2.56	1	11	17	£1,250	£20,625
Queen Street	25+	Phases/5th Core	1.91	3.18	2.55	3	10	15	£1,250	£18,750
Ferry Road (North Balmossie to Grange Road)	25+	Phases/5th Core	2.00	3.07	2.54	4	18	27	£1,250	£33,750
Princess Street	25+	Phases/5th Core	2.19	2.88	2.54	4	16	24	£1,250	£30,000
East Navarre Street	25+	5th Core/Phases	2.16	2.83	2.50	4	6	9	£1,250	£11,250
Church Street	25+	5th Core	2.00	3.00	2.50	3	5	8	£1,250	£9,375
Fountainbrae	25+	Phases/5th Core	2.20	2.80	2.50	3	5	8	£1,250	£9,375
Wellbank Place	25+	5th Core	2.33	2.66	2.50	2	4	6	£1,250	£7,500
Grange Place	25+	Phases	2.00	3.00	2.50	2	5	8	£1,250	£9,375
Eishore Place / Bayview Place	25+	Phases/5th Core	2.00	3.00	2.50	2	5	8	£1,250	£9,375
Fenton Place / Laws Place	25+	Phases/5th Core	2.00	3.00	2.50	1	10	15	£1,250	£18,750
Dalhousie Gardens	12	Angus Council Network	2.00	3.00	2.50	1	5	8	£1,250	£9,375
Dawson Avenue	25+	5th Core/Phases	2.00	2.92	2.46	3	12	18	£1,250	£22,500
North Bank Street / Bank Street	25+	Phases/5th Core	2.20	2.70	2.45	3	11	17	£1,250	£20,625
Tyndall Cres	25+	5th Core/Phases	2.10	2.80	2.45	3	10	15	£1,250	£18,750
Cortachy Circle	25+	Phases/Looped Live	2.00	2.89	2.45	2	10	15	£1,250	£18,750
Albert Street	25+	Phases/5th Core	2.50	2.38	2.44	3	9	14	£1,250	£16,875



## PRIORITISED LIST OF SCHEMES

Street Name	Age of Scheme	Method of Supply	Column Condition	Electrical Safety	Scheme Score	Lantern Spacing	Existing Columns	Proposed Columns	Approx Cost Per Column	Total Scheme Cost
Ramsay Street / South Ramsay Street	25+	Phases/5th Core	2.14	2.71	2.43	4	8	12	£1,250	£15,000
Brook Street	25+	Phases/5th Core	2.41	2.41	2.41	4	15	23	£1,250	£28,125
Lorne Street	25+	Phases/5th Core	1.90	2.90	2.40	4	10	15	£1,250	£18,750
Ritchie Avenue	25+	Phases	1.93	2.87	2.40	3	15	23	£1,250	£28,125
Golf Avenue	25+	Phases	2.00	2.66	2.33	4	3	5	£1,250	£5,625
Lorne Crescent / Avenue	25+	Phases/5th Core	1.89	2.74	2.32	3	21	32	£1,250	£39,375
Pannurefield Terrace	25+	5th Core/Phases	1.75	2.87	2.31	2	8	12	£1,250	£15,000
Tay Street	25+	Phases/5th Core	2.00	2.33	2.17	3	9	14	£1,250	£16,875
Travebank Gardens	20	Phases/Looped Live	1.83	2.50	2.17	1	8	12	£1,250	£15,000
Milton Park	25+	5th Core/Phases	1.50	2.70	2.10	n/a	9	14	£1,250	£16,875
Manse Place	25+	Angus Council Network	1.14	3.00	2.07	1	5	8	£1,250	£9,375
Victoria Street	25+	Phases/Looped Live	1.14	2.94	2.04	2	35	53	£1,250	£65,625
Well Street	25+	Phases/5th Core	2.00	2.00	2.00	4	7	11	£1,250	£13,125
Hill Street	25+	Phases/5th Core	1.06	2.45	1.76	1	36	54	£1,250	£67,500
Weymess Crescent	10	Angus Council Network	1.55	1.81	1.68	1				
High School Path	5	Angus Council Network	1.42	1.75	1.59	n/a				
Muirwood Place	9	Angus Council Network	1.00	1.73	1.37	1				
									<b>Total £ =</b>	<b>£1,503,750</b>





**PRIORITISED LIST OF SCHEMES**

Street Name	Age of Scheme	Method of Supply	Column Condition	Electrical Safety	Scheme Score	Lantern Spacing
Solway Gardens	8	Angus Council Network	1.08	1.59	1.34	1
Swallow Court	12	Angus Council Network	1.20	1.40	1.30	1
Grange Lane	12	Angus Council Network	1.00	1.43	1.22	1
Milton Place	6	Angus Council Network	1.00	1.37	1.19	1
Grange Gardens	11	Angus Council Network	1.00	1.18	1.09	1
Ardestie Street / Andownie Place	5	Angus Council Network	1.00	1.00	1.00	1
Ashludie Terrace (New Roundabout)	2	Angus Council Network	1.00	1.00	1.00	1
High Street (Union Street to Tay Street)	2	Angus Council Network	1.00	1.00	1.00	1
Pannurefield Road	1	Angus Council Network	1.00	1.00	1.00	1
North Balmossie Street (Bottom)	1	Angus Council Network	1.00	1.00	1.00	1
North Union Street	1	Angus Council Network	1.00	1.00	1.00	1
South Street	<b>Scheduled For Replacement by Private Developer 1998/99</b>					
Reform Street	<b>Scheduled For Replacement by Private Developer / Angus Council 1998/99</b>					
Grange Road	<b>Scheduled for Replacement by Angus Council 1998/99</b>					
Fonstane Terrace / Road	<b>Scheduled for Replacement by Angus Council 1998/99</b>					
Fonstane Cres/Place/St + Paradise Road	<b>Scheduled for Replacement by Angus Council 1999/2000</b>					
Path from W. Grange Road to School	<b>Scheduled for Replacement by Angus Council 1998/99</b>					
Dick Street	<b>Scheduled For Replacement by Private Developer 1998/99</b>					

## APPENDIX B

### COLUMN CONDITION/ELECTRICAL SAFETY

Each column was visually and electrically inspected as part of the Electricity at Work Regulations 1989 and given a grade for Electrical Safety and Column Condition.

1. Good.
2. Acceptable.
3. Poor.
4. Unsafe.

These grades were then averaged to give every street/scheme a Column Condition total and a Electrical Safety total.

### SCHEME SCORE

The Column Condition and Electrical Safety for each street/scheme was averaged to give an overall score. This number was called the Scheme Score and was then used to prioritise the schemes.

### LANTERN SPACING

1. Lit to British Standard 5489.
2. 1-20% below British Standard.
3. 21-40% below British Standard.
4. +41% below British Standard.

### PROPOSED COLUMNS

Based on works carried out in Monifieth by Angus Council since 1997 the average ratio of existing columns to proposed columns was taken.

### APPROX COST PER COLUMN

Based on works carried out in Monifieth by Angus Council since 1997;

Average of  $\frac{\text{Cost of Work}}{\text{Proposed Columns}}$  = £1250 per Column.

### TOTAL SCHEME COST

Total Scheme Cost = Proposed Columns x Approx. cost of Column