

FERRING VILLAGE

**ROAD CONDITION SURVEY & DRAINAGE
REPORT**

**Ferring Residents
& Owners Association**

July 2001

HIGHWAY ASSOCIATES
Road Maintenance Consultants
In association with
Gerald Tobias Associates Ltd.

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1. EXECUTIVE SUMMARY

- 1.1 This Report details the results of a comprehensive Road Condition Survey and Drainage Investigation carried out on behalf of the Ferring Residents and Owners Association. The Association maintains a network of unadopted roads over which public rights of access have been established for many years.
- 1.2 The road condition Survey is based upon an inventory of the 70 individual roads including cul-de-sacs, and embraces a total distance of 12 kilometres. The Inventory includes physical dimensions of each road, the nature of existing road surface, details of edge kerbing where applicable, road drainage information, road markings, road signs and the presence of public utility apparatus sited within the carriageway.
- 1.3 The drainage investigation was carried out in parallel with the inventory and condition Survey, and in particular focussed on the areas of Sark Gardens, Little Paddocks and The Warren Pond. From site observations and reports from residents, areas liable to flooding were identified. Siltation of catchpits, culverts and ditches restricted the investigation, and will need clearance by pressure jetting and suction machinery before a more comprehensive picture emerges. In the main, drainage of individual roads appears to be to soakaways, the construction and existing condition of which have, in many cases, yet to be determined. At known flooding points, where currently no formal drainage appears to exist, improvements need be developed for installation of additional gullies connected to soakaways, or wherever possible, to functioning ditches and culverts.
- 1.4 Recommendations are made with related budgets for a range of road maintenance activities to include a rolling programme for routine cleansing of gullies and drains.

2. INTRODUCTION

- 2.1 Following an invitation from the Ferring Residents and Owners Association, Consultants Ralph Olesen and Allen Rollings of Highway Associates, developed a series of proposals, with related budget estimates. These proposals and estimates were presented to the Committee of the Association on Wednesday 28th March, and formally accepted by the Association in their letter dated 29th March 2001.
- 2.2 The brief for Survey and Report is summarised below and is divided into two Phases. Subject to the findings of the Survey and related budget estimates for recommended improvement and maintenance work, it was anticipated that a third Phase would ultimately be authorised to enable contracts to be drawn up and let, through competitive tender procedure.
- 2.3 Phase III would incorporate any further investigation of drainage systems, development of appropriate specifications for recommended improvement and maintenance work, related contract documentation and supervision.

3. BRIEF FOR SURVEY AND REPORT

- 3.1 The overall objective of Phases I & II was to determine the existing condition of surfaced carriageways and associated drainage systems. Proposals were to be incorporated for further development and implementation under Phase III of a series of prioritised, rolling programmes. Each proposal for works would include specification, estimate of quantities, appropriate plans and drawings together with the necessary contract documentation.
- 3.2 Phase I:
- To conduct site investigations, accompanied by level surveys of standing water at previously identified locations, where flooding had occurred, or through which there was significant surface water outfall. The prime objective was to identify areas of perched water table and sections of the existing drainage systems requiring further investigation.
- 3.3 Phase II:
- To conduct a walk-over road condition survey related to basic inventory, detailing the dimensions and physical characteristics of scheduled roads.
 - To undertake a centre line level survey of named roads, including plotting results on OS Plans to facilitate future design of drainage improvements.

- To make a walk-over survey of all identified elements of surface water drainage – gullies, manholes, soakaways, culverts, ditches & ponds.
- To liaise with the District Council, Environment Agency and Public Utilities to determine respective responsibilities and areas of mutual interest.
- To include a contingency item for contractors' services, including selective use of pressure jetting and suction machinery, to facilitate drainage investigation.
- To attend liaison meetings with residents, officers and other relevant interests, to report on progress of surveys and to discuss findings to date.
- To prepare and present a Report, incorporating the results of Surveys, together with plans, schedules, photographs, and prioritised recommendations within agreed budgets.

4. ROAD INVENTORY AND CONDITION SURVEY

4.1 INTRODUCTION:

The purpose of the Inventory Survey was to acquire data on the physical elements of the road network, to facilitate maintenance planning and forward budgeting. The Condition Survey, carried out at the same time, identified and quantified visible defects such as potholes, worn markings, broken drain covers, etc.

4.2 METHOD:

A pro-forma was designed onto which both Inventory and Condition data was recorded.

One sheet was used for each of the 70 roads, and the records so completed are contained in **Appendix R/1**.

Data was obtained through a walk-over Survey, utilising a measuring wheel and tape. A metal hook was employed to lift gully gratings to facilitate inspection. Several gratings were found to be jammed, or sealed-in by the bitumen surfacing, as were a number of Public Utility manhole covers.

4.3 **DATA:**

The following information was gathered for each road surveyed; Nil returns being recorded where applicable.

- 1 Name of Road or Cul-de-Sac.
- 2 Location, by *Grid/Sector reference, eg A1, C3, and between named junctions.
***(Enclosed Street Plans refer).**
- 3 Length (by Centreline, including any side spur)), average Width, and Area.
- 4 Description of Road Surface and where known, Foundation construction. Note of apparent condition, age if known, and any defects.
- 5 Road Edge details and condition – kerbed, grass verge or hard construction. Maintenance of areas beyond road edges are generally considered to be the responsibility of frontagers, including footways, where constructed in a limited number of cases.
- 6 Drainage features where visible – Ditches, Drains and Culverts, Gullies (scheduled according to size of inlet grating) and Soakaways (number and type if known). Silted ditches, blocked gullies, defective gratings, etc. were noted.
- 7 Road Markings – including Junctions, SLOW and Stop Symbols. Dimensions and any significant wear was noted.
- 8 Road Signs, excluding Road name plates, believed to be the responsibility of the District Council.
- 9 Other Features – Street Furniture, Public Utility Apparatus (primarily access covers, sited within the carriageway).
- 10 Other Notes – mainly referring to the condition of an adjoining, adopted road where maintained by West Sussex County Council.

4.4 **SUMMARY OF FINDINGS:**

- 1 Generally the condition of road surfaces and edges are better than originally expected. A number of the cul-de-sacs, which were surface dressed in the last year or so, appear to have partially stripped and are certainly in need of sweeping. Further, a more appropriate size of chipping would have been 6mm rather than 10mm. This is an issue which should be referred back to the contractors, Toynee, for remedial treatment, particularly in Middle Onslow Close, where extensive crushing of chippings has occurred.

- 2 The heavy duty surfacing which has been laid over the past two years appears to be in good condition. Whilst the build up of levels against verges and access ways has in some cases created situations where surface water accumulates, the overall up-grading of these selected roads should be seen as a sound investment. It may well be necessary to install localised drainage systems, primarily to soakaways, to deal with any flooding created by the resurfacing programme.
- 3 A number of localised defects in road surfaces were identified and recorded. These include potholing, crazing, minor deformation and cracking of the bituminous surfaces. No one site is very extensive or at critical level, but selective repairs will be recommended as an output to the survey.
- 4 In the interest of safety, some road junction markings should be renewed this year, and these will be identified and scheduled from the current survey.
- 5 Gully emptying is certainly a need in many of the roads, and by employment of a suction/jetting machine useful proving work could also be done on the piped links to soakaways, and testing the current soakage capacity of the soakaways.
- 6 Weed growth in channels is also an issue, to be addressed by the frontagers themselves. Persistent weed growth leads to disruption of the bituminous surfacing and being at the edge of carriageways is a source of weakness for the ingress of water to the foundations.
- 7 Visually, from an amenity point of view, some selective sweeping of mainly cul-de-sacs, is recommended. Development of a policy for regular sweeping of roads, also for checking/cleaning of road gullies, drains, ditches and soakaways is recommended. An annual rolling programme, dealing with a proportion of the roads each year is suggested as an appropriate approach.
- 8 A selection of **Photoviews of Defective Road Surfaces** is included at the end of this section of the Report.
- 9 A schedule of all roads surveyed is included at **Appendix R/2(Road Defect Matrix)**, which also details Grid Location, Road Length and Area, together with a brief summary of recommended remedial work, where identified.

5. REPORT ON DRAINAGE INVESTIGATION & SURVEY

INTRODUCTION

At the commencement of the project, various areas of flooding in the village prompted the concern about drainage. Whilst it was realised that the majority of the flooding was localised, a major area of concern was the flooding in Sark Gardens. This flooding was particularly serious and centred on the junction of Jersey Road and Sark Gardens. It was therefore decided to commence the investigation to see if the drainage system, to and from the Little Paddocks, to and from the Warren Pond and to a lesser degree the reported system in Brook Lane, was functioning satisfactorily.

5.1 LITTLE PADDOCKS DRAINAGE SYSTEM.

- 1 A full investigation of the ditch from the Rife to the Ferringham Lane shops and the pipe system from there to the pond in Little Paddocks was carried out. In addition, the pipe system upstream from the pond was also investigated.
- 2 The results of this investigation are outlined in **Appendix D/1**. In summary, the results showed that there was adequate fall from the commencement of the ditch at the western end of Ferringham Way to the outfall at the Rife. However, the length of ditch from Ferringham Way to the culvert in Ferringham Lane has become the subject of poor management allowing services, fallen trees, and badly constructed vehicular crossovers to inhibit the flow of water. These obstructions have resulted in a serious silting up of the ditch and increased the risk of blockages occurring. The most concerning aspect is that the culvert under Ferringham Lane is almost completely full of silt.
- 3 It was reported that the level of the water in the pond at Little Paddocks had been raised and although there is only superficial evidence of this, the drainage system upstream does appear to have been constructed to discharge at a point lower than the existing water level of the pond. This apparent rise in water level has resulted in the upstream drainage system being flooded and becoming full of silt. It is also noted that this upstream system is in serious need of maintenance.
- 4 The system presently appears to terminate at an inspection chamber on the north side of Beehive Lane with its junction of Jersey Road and Little Paddocks Way. There does not appear to be any discharge from Beehive Lane into the system but there is a 600 mm diameter pipe heading in a southwesterly direction, which may have, at one time,

connected Beehive Lane into the Little Paddock system. This catchpit and pipe system is full of silt and requires jet cleaning before any further investigation can be made.

5.2 SARK GARDENS

- 1 In an effort to find out where the water in Sark Gardens drains to, levels were taken in the road and in the area of Sea Lane to the east, as old records appear to indicate that a ditch had once discharged in this direction.
- 2 The investigation revealed that a pipe and ditch system runs from the junction of Sark Gardens and Jersey Road, along the north side of Sark Gardens eastwards. The pipe has been investigated as far as 5m east of the inspection chamber at the end of Sark Gardens, where the pipe appears to have been broken and there is subsidence in the front garden of No.9 Sark Gardens. This drain run, according to records once discharged to the pond in the garden of Elm Lodge at the junction of Tamarisk Way and Sea Lane and there appears to be a number of new bungalows and garages that have been built over the drain line. The levels taken along Sark Gardens indicate that this drain was extremely flat and could discharge in either direction. It is noted that the water level in this system was 400mm lower than the pond level in Tamarisk Way but 400mm higher than the pond level in Little Paddocks. It is therefore difficult to assess exactly how the drainage system in Sark Gardens worked originally.
- 3 Readings were taken on the water levels in the ditch on the east side of Sea Lane which is maintained by the Highway Authority, and this level coincided with the level of the water in the pond in the garden at the corner of Tamarisk Way. This would indicate that the ground water level in Sea Lane is higher than that of Sark Gardens.

5.3 DRAIN RUN IN JERSEY ROAD SOUTH TOWARDS WARREN POND

- 1 It was hoped that the ditch in Jersey Road running southwards, would eventually discharge into the pond at the Warren, however, the following information reveals that, if anything, the water would discharge in a northerly direction, towards Sark Gardens.
Invert levels of this drain run on the east side of Jersey Road are approximately 5.3 -5.4 m. AOD. (Above Ordinance Datum)
At the time of the survey, these ditches were dry as expected, as the water level in Sark Gardens was 4.6m. AOD.

The water level in the pond at Warren Road was 4.4 m. AOD, indicating that water would only enter the ditch in Jersey Road when the pond overspilt as the ground level around the pond was 5.4 m. AOD.

In summary the water tables are: -

Sea Lane,	5.0m.AOD
Sark Gardens,	4.6m.AOD
Warren Pond,	4.4m.AOD
Pond level in Little Paddocks	4.2m.AOD

2 In the drains adjacent to the shops in Ferringham Lane, the water level at the time of the survey fell from 3.55m.AOD westwards to approximately 2.7m.AOD at the end of Ferringham Way Lane. This would indicate that the area of Sark Gardens and Sea Lane adjacent to Tamarisk Way has a perched water table, ie water is prevented from flowing through the ground to lower areas.

3 As the water table drops following heavy rainfall, there is obviously some seepage through the ground albeit at a slower rate than elsewhere in the village.

It would be prudent to seek a positive drainage outlet for the Sark Gardens area to prevent future flooding. A solution may be found by connecting the drainage system in Sark Gardens to Little Paddocks pond as the invert levels of the drainage here is slightly higher than the pond level.

5.4 BROOK LANE.

1 It was thought that there was another underground system in Brook Lane that was connected to the caravan site at the end of this road. However, investigations have found that the drainage in this area, including the Closes off the lane, are connected to soakaways and the outfall in the caravan site is fed by a spring coming out of the ground which no doubt is fed by soakaways in the area.

OTHER DRAINAGE POINTS OF INTEREST

5.5 PIPE DRAINAGE SYSTEMS

1 A pipe drainage system was found in Westlands, which appears to discharge into land to the west of the residential area on the east bank on the Rife.

2 A further comprehensive drainage system is to be found in the Ferring Marine area ie southeast corner of the village. A number of roads are connected via a fairly modern

pipe and manhole system to a sea outfall which no doubt gives very effective drainage to this area.

3 A short section of pipe was also found in Highdown Way, which discharged into the Rife at its north end, and investigations so far suggest that this pipe is damaged.

4 Other drainage networks were found, such as that in Onslow Drive but these have subsequently been established as being in Adopted Highways and therefore under the control of West Sussex County Council.

5.6 OUTFALLS

1 In addition to the outfall at Marine Drive and that at Brook Lane Caravan Park, also one in the vicinity of Letchworth Close, there appears to be two other private outfalls into the Rife, which are currently under-utilized. The first, behind 12 Oval Way and the second behind 34 West Drive. These present a possibility for future connection to a drainage system, subject of course to agreement on wayleave.

5.7 GULLIES & SOAKAWAYS.

1 The plans in **Appendix D/4** show the positions of all the gullies surveyed and the majority of these are connected to soakaways. The soakaways have also been identified on the plans if it was possible to identify their position. The plans indicate that there are a great variety of gullies and a great variance in the numbers found in the roads across the village. What has become evident in the survey is that a large number of these gullies require maintenance. Action to carry out emergency repairs has already commenced and the next stage of the investigation should in our opinion include the cleaning of the gullies and a jetting out of the pipe-runs connecting to the soakaways.

5.8 AREAS OF FLOODING REPORTED AT ANNUAL GENERAL MEETING

1 Plans were put up at the Annual General Meeting where attendees were invited to mark areas where flooding had occurred in the winter period of intensive rainfall. The Highway Inspectors have also reported areas of flooding and we will investigate these areas along with those already reported. A plan indicating all the areas reported is shown in **Appendix D/2**

5.9 FUTURE DRAINAGE IMPROVEMENTS.

- 1 Appendix D/3 contains the first phase of a levels survey, which will assist in the location of new gullies, to determine the feasibility of connection to an existing pipe system, ditch or soakaway.

5.10 DRAINAGE WORKS PROGRAMME

- 1 **Investigation Works.** Subject to receipt of the report from the investigation into the catch pit at the corner of Sark Gardens and Jersey Road, we recommend that jetting and a television survey be carried out on the pipes leading to and from this catch pit and the catch pit in Beehive Lane adjacent to the pathway into Little Paddocks.
- 2 **Maintenance/ Investigative Works.** Follow a programme of gully clearing and investigation taken from the Highway Inventory/Condition Survey forms in Appendix R/1, and influenced by the areas, which have been reported as prone to flooding.
- 3 **New Works.** Identify areas requiring additional gullies from reported areas of flooding.

5.11 AUTHORITY TO APPROACH ^{ARUN}ADUR DISTRICT COUNCIL.

- 1 It is evident that ^{ARUN}Adur District Council has assumed responsibility for the ditch running alongside Ferringham Lane on the north side of the road (Plans have been produced confirming this, and are held by the Parish Council).
- 2 There are a number of obstructions in this ditch and there is considerable silting (see Appendix D/1). A report should be made to the District Council highlighting the shortcomings of this drainage system with a view to getting them to use their powers to improve it.
- 3 The drainage system upstream of the Little Paddocks pond is in need of considerable improvement. If it can be proven that the area of Beehive Lane did drain into the pond then pressure can also be applied to the District Council to require the owners of Little Paddocks to carry out the necessary improvements.
- 4 There may be other areas adjacent to the Rife where ditch cleaning is required that could also be within the jurisdiction of the District Council.

5.12 AUTHORITY TO APPROACH THE HIGHWAY AUTHORITY.

There are a number of broken drains on the boundary of the Associations roads and the Highways Authority's roads. A report should be made highlighting the deficiencies at a number of points, especially in Sea Lane.

5.13 CONCLUSION

- 1 The investigation thus far has identified a number of problems with the drainage but further investigation is required before a comprehensive, budgeted programme can be developed. However, it is recommended that the budget proposals presented above be adopted for drainage works this year.
- 2 There are considerable maintenance problems to be overcome in the short term, which include cleaning of gullies and jetting clean their connections to the soakaways. The above budget allows for such a programme, with priority being given to the areas of known flooding.
- 3 The longer-term solution will, in our opinion; rely on the provision of gullies connected to soakaways. There is however, an urgent need to construct an overflow system from Sark Gardens into the outfall to Little Paddocks or even directly into the ditch at Ferringham Lane.
- 4 The ditch system in Ferringham Lane will need to be improved if it is to cope with this extra water and indeed the existing flow in times of flood.
- 5 Finally, there is scope to add extra gullies to existing piped systems and the possibility, if agreement can be obtained from landowners, of adding piped systems to the underused outfalls into the Rife.

6. RECOMMENDATIONS

6.1 The following recommendations for further investigation, repairs and maintenance are offered, accompanied by budget estimates, which include VAT and allowance for Consultancy Services and Supervision. Two programmes are proposed, the first for execution this year, the second for implementation in 2002.

6.2	<u>Proposed Programme of Work for 2001.</u>	Budget Estimate £
1.	Drainage investigation and cleansing using jetting and suction machinery, also recording conditions by video camera to identify blockages and defects (including £1000 not expended in Phase II). Sum includes attendance by Consultant throughout the estimated 5 day period. Sites to include Florida Road/Chalet Gardens & Jersey Road/Sark Gardens	5800.00
2.	Urgent repairs to Gullies & Frames (already authorised), including installation of an additional gully to drain low point at junction of Down View Avenue and Cissbury Road	2500.00
3.	Road Marking renewal plus new 20mph roundels @ selected sites	1100.00
4.	Retexturing of bitumen-rich surfaces	1300.00
5.	Sweeping @ approximately 20 selected sites	600.00
6.	Joint/crack sealing @ 7 selected sites	700.00
7.	Patching potholes and other defective areas – various locations	2000.00
8.	Repair and Resurface Draycliffe Close	2500.00
9.	Suggested budget estimate for Consultancy Services in preparing specification, contract documentation, administering tendering process and recommending acceptance of most favourable offers.	1200.00
	<u>Total including VAT, supervision costs and travelling expenses</u>	<u>£17,700.00</u>

6.3 **Proposed Programme of Work for 2002 (@ 2001 prices)**

1.	Soakaway Investigations/Repairs (if not undertaken in 2001)	5000.00
2.	Sweeping and gully/drain cleansing – @ selected locations	2000.00
3.	Renewal of road markings	1000.00
4.	Patching and minor repairs to kerbs and gully gratings etc.	4000.00
5.	Installation of new gullies and soakaways (with kerbing?)	6500.00
6.	Surface dressing/slurry sealing @ selected sites	6000.00
7.	Slurry surfacing to seal thin wearing courses and exposed foundations @ Colindale Close, Elverlands Close and Sark Gardens	10,000.00
8.	Suggested budget estimate for Consultancy Services in preparing specification, contract documentation, administering tendering process and recommending acceptance of most favourable offers.	2500.00

**Total including VAT, Consultancy and supervision costs and
travelling expenses**

£37,000.00

6.4 **Notes:**

- 1 As at end of July, quotations have been received from 3 contractors for urgent repair to gully gratings. The most favourable quotation from EP Clarke has been recommended for acceptance. It is likely that these works will be completed during August.
- 2 Budget estimates are being sought from two specialist contractors concerning retexturing of bitumen-rich surfaces in Beehive Lane and Ferringham Lane.
- 3 A budget estimate has been received from specialist slurry surfacing contractor JPCS concerning proposals in Colindale and Elverlands Close and Sark Gardens (part).
- 4 Invitations to tender for the following works have yet to be prepared pending authorisation for Phase III of this Consultancy.
 - Road markings
 - Patching and Resurfacing, also joint/crack sealing
 - Drain jetting and emptying and video camera work
 - Sweeping & Disposal of arisings

Ferring Residents Owners Association
 Schedule of Maintainable Roads, and Recommended Remedial Works for 2001/2002

Recommended Remedial Works for 2001/2002

Road Name	Map Location	Road Length	Area as Association Records	Area as measured & Scheduled	Patch Sq.m	Crack Seal Lin.m	Surface Dress Sq.m.	Resurface Sq.m.	Sweep sq.m.	Road Marking	Miscellaneous Works
Alderney Road	B1	17	850.95	1040							Verge opp G.Rd Jn
Ansisters Road	A2	16	625.41	898					898		
April Close	A1	2	176.61	189	2				189		Clean 3 gullies
Barbary Lane	A2	16	814.25	940							Gully cleaning & grating maintenance
Beehive Lane	A1-B2	60	2487.86	2827				Retexture 480sq.m			
Beehive Close	B2	3	366.99	365	12						
Brook Lane	A2	34	1141.48	1355	20						Add gully @ low point. Kerb Jn Mulberry Cl
Cedar Close	A2	9	0	346	10		346		346		
Chalet Close	B1	5	233.19	302	1				302		Free grating
Chalet Gardens	B1	10	547.42	787	3						
Chalet Road	B1	22	1369.32	1483							Clear gully @ 21
Cissbury Road	A3-B4	50	1342.56	2232							Replace grating @ 48. New gully + conn @ 60
Clover Lane	A2	27	1078.02	1203							Clean/investigate Jn F'ham Lane
Colindale Road South	A2	10	611.64	788	45			788			
Doone End	B1	9	0	291		60			291		Clean/maintain gullies
Downview Avenue	A4	29	1894.57	1959	1						Clean gully opp 3
Downview Road	A3	20	0	1224	12						
Draycliffe Close	A2	3	0	232	10			232	232		
East Mead	B2	13	559.65	580	2				580		Replace kerb @ 12 Gully clean/investigate
Elverlands Close	B1	26	0	1055	4		525	530			

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Ferring Close	A1	17	581.06	605									Raise manhole cover. Investigate gully opp 16
Ferring Marine	B1	31	1016.09	1064	13	2							
Ferringham Lane	A2	90	4621.73	5813	2	10							Jn O Dr Slow @ 60 Raise manhole cover opp B Weatherstone. Clean/investigate 18 gullies
Florida Close	B1	10	481.67	502							502		Replace grating @ Jn
Florida Gardens	B1	5	0	329	4						329		
Florida Road	B1	17	1185.06	1299	1								
FoamCourt Waye	A2	30	1756.95	1753								600	in channels. Replace grating @19
Grange Close	B2	19	912.88	1031	5						1031		
Grange Park	B2	19	1299.74	1257	25								Clean 5 gullies + adjust level @ 6
Green Park	B4	20	0	697	4								
Greenways Crescent	B2	10	943.46	967	10							967	Clean/investigate 2 gullies @ Jn
Guernsey Road	B1	12	768.38	864	4								re mark
Henty Road	B1	9	494.67	523	10								New gully & s'way
Herm Road	B1	23	1220.99	1328		20						1328	
Highdown Way	A3- A4	25	363.16	1022	16								replace grating @ 10
Inglegreen Close	A1	4	0	240									
Jersey Road	B1- B2	20	1124.66	1378	1								investigate culverts @ Telgarth
Lamorna Gardens	B1	12	504.61	503								503	investigate/clean s'ways x 5
Langbury Close	A4	8	336.4	381	1								
Letchworth Close	A1	7	355.52	315									
Little Drive	A2	12	539.01	572	5								Adjust levels Gullies & clean. Clean s'ways x 2
Malcolm Close	A2	4	346.34	373								373	Clean 3 gullies

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Mulberry Close	A2	7	311.94	300	10						6m kerbing @ Jn. New gully & s'way
Ocean Close	B1	3	214.84	216	4			216			
Ocean Drive	A1-B1	54	1970.26	2578		10					replace grating @ L.Beavers. Empty 7 gullies included with Ferringham L
Ocean Parade		5	224.78								
Onslow Close East	B3	11	351.7	359				359			
Onslow Close Middle	A3	8	239.31	311			311				
Onslow Close West	A3	9	240.83	305							
Orchard Close	A4	15	382.28	484							clean 4 gullies
Oval Way	A1	28	1039.79	1439							
Park Drive	B3	4	324.94	410	24					new Jn marking	Raise manhole cover
Polperro Close	A2	9	275.24	361				361			
St Aubins Road	B1	9	550.48	556	5					remk Jn	
St Helier Road	B1	20	531.37	663							Replace grating @ St Malo Ct
St Malo Close	B1	9	354.75	376	6						
Sark Gardens	B1	15	807.37	829	6			300			Investigate culvert & outfalls
Sea Drive	B1	9	425.09	445	15						
Sea Lane Close	B3	8?	651.4	652		32			652		Investigate/clean s'way @ low point
Sea Lane Gardens North	B2	20?	1834.93	1832							Free gratings & clean gullies. Replace grating opp G'ways Cr
Somerset Road	B1	31	1233.99	1295	6					remk T'garth Rd jn	
South Drive	A1-B1	30	1217.94	1296							New gully/s'way opp The Strand
Tamarisk Way	B1	11	817.31	913							Clear gully NW corner end

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Schedule of Maintainable Roads, and Recommended Remedial Works for 2001/2002

Telgarth Road	B1	20	922.82	1131	12					remk Slowx3	Free gratings & Empty
The Grove	A2	12	802.78	376	13						Free & empty 2 gullies
The Maples	B1	16	502.31	419	1			419			Clean 2 gullies
The Warren	B1	8	917.47	1031	23					remk Jn	
Westlands	A2	17	0	725				725			Free gratings & clean 6 gullies
West Drive	A1	37	1613.98	1829							
Upper West Drive	A2	40	1773	2139		3					Free gratings & clean 7 gullies. Regulate rutted verge edge x 8m
		150									
Totals			53485.2	66182	348	137	2213	2502	10862		

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