FOUL MANHOLE	DIA	DOWNSTREAM MANHOLE	DISTANCE	GRADIENT	INVERT LEVEL	COVER LEVEL	MATERIAL
AWA 8002	225	AWA 8012			0.920	3.040	
F1	150	AWA 8002	21.5	150	1.083	2.922	Concrete
F2	150	F1	9.7	150	1.128	3.040	Concrete
F3	150	F2	16.2	150	1.236	3.155	Concrete
F4	150	F3	30.5	90	1.575	3.260	Concrete
F5	150	F4	18	80	1.800/1.850	3.170	Brick (3)
F6	150	F4	14.7	80	1.759/1.809	3.180	Brick (3)
F7	150	F3	5.2	10	1.756/1.806	3.230	Brick (1)
F8	100	F7	8.2	40	2.011	3.275	Brick (1)
F9	100	F8	8.1	40	2.214	3.220	Brick (1)
F10	100	F9	6.7	40	2.382	3.250	Preformed
F11	100	F10	5.5	40	2.520	3.250	Preformed
F12	100	F9	7.4	40	2.399	3.300	Preformed
F13	100	F12	7.1	40	2.577	3.300	Preformed
F14	100	F7	8.7	40	2.069	3.300	Brick (1)
F15	100	F14	12.5	40	2.382	3.350	Brick (1)
F16	100	F15	4.0	40	2.482	3.150	Brick (1)
F17	100	F15	2.7	40	2.450	3.350	Preformed
F18	100	F17	4.8	40	2.570	3.350	Preformed
F19	100	F8	4.3	15	2.046	3.300	Brick (1)
F20	100	F19	11.8	40	2.341	3.300	Brick (1)
F21	100	F20	7.0	40	2.516	3.650	Brick (1)
F22	100	F21	9.0	40	2.741	3.650	Preformed
F23	100	F22	5.4	40	2.876	3.650	Preformed
F24	100	F21	3.1	40	2.594	3.650	Brick (1)
F25	100	F21	10.4	40	2.776	3.650	Preformed
F26	100	F25	6.4	40	2.936	3.650	Preformed
F27	100	F26	7.1	40	3.114	3.650	Preformed
F28	100	F20	4.6	40	2.456	3.300	Preformed
F29	100	F28	2.2	40	2.511	3.300	Preformed
F30	100	F5	5.9	10	2.440	3.320	Preformed
F31	100	F30	12.3	40	2.748	3.450	Preformed
F32	100	F31	1.4	40	2.783	3.450	Preformed

crown to crown

SURFACE MANHOLE	DIA	DOWNSTREAM MANHOLE	DISTANCE	FALL	INVERT LEVEL	COVER LEVEL	MATERIAL
AWS 8054	150				2.120	3.000	
S1	150	AWS 8054	7.4	300	2.145	2.918	Brick (1)
S2	225	S1	9.2	500	2.163	3.032	Brick (1)
S3	2x 300	S2	17.0	500	2.197	3.155	Brick (2)
S4	2x 300	S3	31.5	500	2.260	3.266	Brick (2)
S5	2x 300	S4	8.0	500	2.276/2.426	3.256	Brick (2)
S6	225	S5	12.0	500	2.300	3.187	Brick (1)
S7a			NOT	USED			
S7			NOT	USED			
S8			NOT	USED			
S9			NOT	USED			
S10	100	S11	2.9	100	2.835	3.300	Preformed
S11	150	S12	6.8	100	2.805	3.300	Preformed
S12	150	S13	3.5	100	2.738	3.300	Preformed
S13	150	SOAKAWAY	5.3	100	2.703	3.300	Preformed
S14	100	S13	8.1	100	2.784	3.250	Preformed
S15	100	S14	1.6	100	2.740	3.150	Preformed
S16	100	S13	6.0	100	2.743	3.300	Preformed
S17	100	S16	7.6	100	2.819	3.300	Preformed
S18	100	S10	9.4	100	2.929	3.300	Preformed
S19	100	S20	3.8	100	3.028	3.350	Preformed
S20	100	S21	4.9	100	2.988	3.350	Preformed
S21	150	S22	12.9	100	2.939	3.300	Preformed
S22	150	SOAKAWAY	11.0	100	2.810	3.300	Preformed
S23	150	SOAKAWAY	4.8	100	2.890	3.450	Preformed
S24	150	SOAKAWAY	9.3	100	2.943	3.475	Preformed
S25	150	SOAKAWAY	4.2	100	3.242	3.650	Preformed
S26	100	S25	3.0	100	3.272	3.650	Preformed
S27	150	SOAKAWAY	8.8	100	2.788	3.300	Preformed
S28	100	S29	12.1	100	3.037	3.450	Preformed
S29	150	SOAKAWAY	6.6	100	2.916	3.450	Preformed
S30	100	S24	6.1	100	3.004	3.550	Preformed

Invert to invert(Hydrobrake)
Invert to invert
Invert to invert

PIPES CONNECTING ROAD GULLYS TO MANHOLES ARE TO HAVE CONCRETE HAUNCHING (MIN. 150mm THK.)

FOR DETAILS OF MANHOLE TYPES REFER TO DWG.S 35997/04 & 07.

Street Lighting LCC Specification 5/35/C/93 with REC supplies

SL

Columns
Stainton Metal Co Ltd
Dukes Way
Teeside Industrial Estate
Thornaby
Cleveland
TS17 9LT

Type
Metra Borough 5m mounting height column with G1 corrosion protection
Bracket arm projection 0.5m
Spigot to suit Philips 35 watt side entry lantern- 34mm dia

NB: All columns shall be provided with a Type A termination in accordance with LCC drawing No. SD/14/4A.

Lanterns, Lamps and Gear
Supplier
Philips Lighting
420 London Road
Croydon
CR9 3QR

Type
Philips 35 watt side entry lantern, incorporating integral low loss gear, 35 watt sox plus lamp and fitted with Nemo photocell socket

Photocells
Supplier
Selc Electronics
2 Ambassador Place
Stockport Road
Altrincham
Cheshire
WA15 8DB

Type
B4T photocell, electronic, 1 part, 1:0.5 differential, 70lux on

NON ADOPTAELE Amenity Lighting Columns

AL

Existing Foul MH ref 8002 CL 3.040 IL 0.920

Existing SL

MH 8054 CL 3.00 IL 2.12

SW

Existing trees

Hydrobrake

Existing access demarked with block paviors at new road level

Existing tarmac regraded from back edge of footpath max 1:12 gradient

Service strip demarkated with 100 x 100 x 1000mm concrete posts at 5m centres

2.5 METRE WIDE SERVICE STRIP (TURF)

Pedestrian crossing

Existing trees to be removed.

Existing tree

Existing hedge

Boundary Line

Existing Lighting Column

Existing Foul MH ref 8002 CL 3.040 IL 0.920

Existing SL

MH 8054 CL 3.00 IL 2.12

SW

Hydrobrake

Existing access demarked with block paviors at new road level

Existing tarmac regraded from back edge of footpath max 1:12 gradient

Service strip demarkated with 100 x 100 x 1000mm concrete posts at 5m centres

2.5 METRE WIDE SERVICE STRIP (TURF)

Pedestrian crossing

Existing trees to be removed.

Existing tree

Existing hedge

Boundary Line

Existing Lighting Column

RS

4.32

4.48

SL

footpath (tarmac)

4.32

DC CL 4.49 IL 4.04

4.51

new access formed in tarmac with fut kerb edgings

4.25

BT

4.27

4.28

4.18

Vehicle Access crossing point.

gross verge

CROWN 4.32

4.12 SEG

4.52

4.37

footpath (tarmac)

SV

150 DIA FOUL

MH CL 4.24 IL 2.14

150 DIA FOUL

MH CL 4.40 IL 2.14

150ø CLAY PIPE WITH CLASS 'A' BEDDING (SEE DWG.35997/03)

TARMAC ROAD CONSTRUCTION AS FOR ACCESS ROAD (4.20m WIDE) BUT WITHOUT PAVEMENTS

IL AT SOAKAWAY = 3.125

PERMEABLE DRIVEWAY CONSTRUCTION (GRAVEL)

9.75x0.9x1.4m dp soakaway

11x0.9x1.2m dp soakaway

5.4x1.2x1.2m dp soakaway

20x0.9x1.2m dp soakaway

Minimum 300mm wide planting strip.

Note:
Give way marking and Any necessary signing to be agreed on site with the Divisional Surveyor.

Pram Crossing points with tactile paving to be provided at all crossing points

ALL PARKING AREAS AND DRIVEWAYS ARE TO BE OF "GRASSCRETE", OR SIMILAR PERMEABLE CONSTRUCTION.

Plan Showing Site Layout

ROD EYE FACILITY

FARTH BACKFILL UNDER GARDENS (GRANULAR BACKFILL LOCAL TO FOOTPATH CROSSINGS).

600
600
300
450
900

TERRAM 1000
100ø PERFORATED PIPE
WHOLE COMMON BRICKS

Typical Soakaway Detail (1:25)

DENOTES EXTENT OF ADOPTABLE ROAD

Plan Showing Extent Of Adoptable Road And Surface Water Sewer. (1:500)

THE HYDROBRAKE FITTED TO MANHOLE S1 IS TO LIMIT THE DISCHARGE FLOW RATE TO A MAXIMUM OF 5 LITRES PER SECOND, OPERATING AT A PRESSURE HEAD OF 800mm

SOUTH HOLLAND DC HOUSING & PLANNING 22 OCT 1998 Ref: 1044/98

REV	DATE	REMARKS
B	10/3/98	Note On Manhole Types Added, Brick Manhole Types indicated On Tables, Manhole S6 Invert Level Amended.
A	26/2/98	Note on Street Lighting Columns Added. Surface Water Drainage Amended, Drainage Tables Amended.
F	7/7/98	Section Of Private Driveway Shown As Tarmac Construction, Gullys and Soakaway Added.
E	12/5/98	All References To Fences Removed.
D	1/5/98	Kerbline Local To Existing Building Amended.
C	18/3/98	MH S7A – S9 Deleted, Table Amended.

SIDEBOTTOM RICHARDSON CHENG LTD
CONSULTING STRUCTURAL AND CIVIL ENGINEERS
15 HIGH STREET, SPALDING, LINCS. PE11 1TW
TEL: (01775) 712660 FAX: (01775) 712635

PROJECT
Proposed Residential Development West Street, Crowland, For Longhurst Housing Association.

TITLE
Site Layout Showing Surface And Foul Water Drainage Arrangement.

SCALE	1:200	X REFS	359SURV 359PLAN
DATE	January 1998		
DRAWN BY	CDP	FILENAME	359-01

DRG No. 35997/01 REV F

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Area (1).
20. Weigela florida purpurea
20. Chaenomeles Cameo and Gold
20. Pyracantha Orange glow
20. Weigela florida variegata
80no.

Area (4b).
16. Escallonia Appleblossom
16. Cornus alba elegantissima
16. Forsythia Lynwood
48no.

Area (2)
20. Potentilla fruticosa
20. Euonymus Emerald
20. Prunus Otto Luyken
60no

Area (3)
12. Euonymus Emerald + Gold
12. Potentilla fruticosa
24no

Area (4a)
25. Weigela Bristol Ruby
25. Escallonia Apple Blossom
25. Cotoneaster franchetti
25. Prunus lusitanica
25. Cornus alba
25. Cotoneaster simonsii
150no

DENOTES EXTENT OF ADOPTABLE ROAD
DENOTES EXTENT GRASS-CRETE OR GRAVEL DRIVEWAYS
DENOTES EXTENT OF GRAVELLED PRIVATE DRIVE
DENOTES EXTENT OF TARMAC PRIVATE DRIVE

Extent of Tarmac access drive to be drained to a soakaway positioned beneath the road build-up. Details of soakaway and road construction as indicated upon SRC engineers drawings

Boundary Line 4000

new access formed in tarmac with full kerb edgings

Tarmac Access Drive

Vehicle Access crossing point.

Existing trees

Existing trees to be removed.

Trees to be retained

Minimum 500mm wide planting strip.

Areas to be seeded.

Areas to be planted with the trees & shrubs

150 DIA FOUL MH CH 4.24 IL 2.14

150 DIA FOUL MH 4.40 IL 2.14

SORBUS AUCUPARIA - ASPLENIFOLIA
7 - ht. EXPAN - HEAVY STANDARD

1800
750

SCALE 1–50
DETAILS OF
WALLING WITH METAL RAILINGS:

750mm high 215mm wide brickwork walling with 1800mm high 330mm x330mm brickwork piers (max. 3.0m centres) with 2 course tile creasing and engineering brick copings.

Bow top fencing over walling beteen piers manufactured to BS 1722 Part 9
Horizontal rails 50 x 10 flat
Steel bar 20mm dia.

This is a true copy of the Plan deposited with the South Holland District Council and approved by them under the Building Regulations.

SOUTH HOLLAND DC HOUSING & PLANNING
29 OCT 1998
Ref: H/02/1044/98.

SOUTH HOLLAND D.C. BUILDING CONTROL
28 APR 1998
REF 235/98

Revision B: Dimensions added to private drive. 21/01/98 MJB
Revision A: Private Drive layout amended. 03/04/98 MJB

PETER RAMSEY
LANDSCAPES
ASWARDBY HOUSE, SPILSBY, LINCOLNSHIRE PE23 4JT
Tel: (01790) 753059 Fax: (01790) 754460 Mobile: (0831) 274043
26/10/98

Proposed Residential Development
West Street,
Trinity Court,
Crowland.

Longhurst Housing Association Ltd.

Site Layout

MLG Meldrum Lee & Elliott
Architects, Quantity Surveyors
Management & Cost Consultants

Issuing Office:
Boston 01205 364795
Stamford 01754 767068
Grantham 01476 590129

Date: March 98 | Drawn by: MJB
Scale: 1 : 200 | Checked by:
Drawing No.: 13348–07 | Revision: B

Do not scale. The Contractor is to check all dimensions on site and report any discrepancy to the Architect.

Area (1)
20. Weigela florida purpurea
20. Chaenomeles Cumissant Gold
20. Pyracantha Orange glow
20. Weigela florida variegata
80no.
2no Sorbus Aucuparia-Aspenfolia
(Planted on extra heavy standards)

Area (4b)
16. Escallonia Appleblossom
16. Cornus alba elegantissima
16. Forsythia Lynwood
48no

2no Sorbus Aucuparia Aspenifiora
(Planted on extra heavy standards)

Area (2)
20. Potentilla fruticosa
20. Euonymus Emerald
20. Prunus otto Luyken
60no
1no Sorbus Aucuparia-Aspenifiora
(Planted on extra heavy standards)

Area (3)
12. Euonymus Emerald + Gold
12. Potentilla fruticosa
24no

Area (4a)
25. Weigela Bristol Ruby
25. Escallonia Apple Blossom
25. Chaenomeles franchettii
25. Prunus lusitanica
25. Cornus alba
25. Chaenomeles sinensis
150no
3no Sorbus Aucuparia-Aspenifiora (Planted on extra heavy standards)

DENOTES EXTENT OF ADOPTABLE ROAD
DENOTES EXTENT GRASS-CRETE OR GRAVEL DRIVEWAYS
DENOTES EXTENT OF GRAVELLED PRIVATE DRIVE
DENOTES EXTENT OF TARMAC PRIVATE DRIVE

Area to be seeded.
Area to be planted with the trees & shrubs

Boundary Line

new access formed in tarmac with full kerb edgings

Existing Tree to be removed.

Existing Low

Existing trees

Tree to be removed

Extent of Tarmac access drive to be drained to a soakaway positioned beneath the road build-up. Details of soakaway and road construction as indicated upon SRC engineers drawings

Vehicle Access crossing point.

Domestic Access Drive W. 10

Existing Hut

Hedgerow (Farmer)

Grass verge

150 DIA FOUL MH CL 4.40 IL 2.14

150 DIA FOUL MH CL 4.24 IL 2.14

Minimum 500mm wide planting strip.

1800
750

SCALE 1–50
DETAILS OF
WALLING WITH METAL RAILINGS:

750mm high 215mm wide brickwork walling with 1800mm high 330mm x330mm brickwork piers (max. 3.0m centres) with 2 course tile creasing and engineering brick copings.

Bow top fencing over walling beteen piers manufactured to BS 1722 Part 9
Horizontal rails 50 x 10 flat
Steel bar 20mm dia.

PETER RAMSEY
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26/11/98

SOUTH HOLLAND DC
HOUSING & PLANNING
19 NOV 1998
Ref: H02/1044/98

SOUTH HOLLAND D.C.
BUILDING CONTROL
28 APR 1998
REF 235/98

This is a true copy of the Plan deposited with the South Holland District Council and approved by them under the Building Regulations.

Revision B: Dimensions added to private drive. 21/04/98 M.L.
Revision A: Private Drive layout amended. 03/04/98 M.L.

Proposed Residential Developm
West Street,
Trinity Court,
Crowland.

Longhurst Housing Association L

Site Layout

DETERMINED PLAN

MLG Meldrum Lee & Gillc
Architects, Quantity Survey
Management & Cost Consulta

Issuing Office:
Boston 01205 364795
Skegness 01754 767066
Grantham 01476 590129

Date: March 98
Scale: 1 : 200
Drawing No.: 13348-07
Revision: B

Do not scale. The Contractor is to check all dimensions on site and report any discrepancy to the Architect.