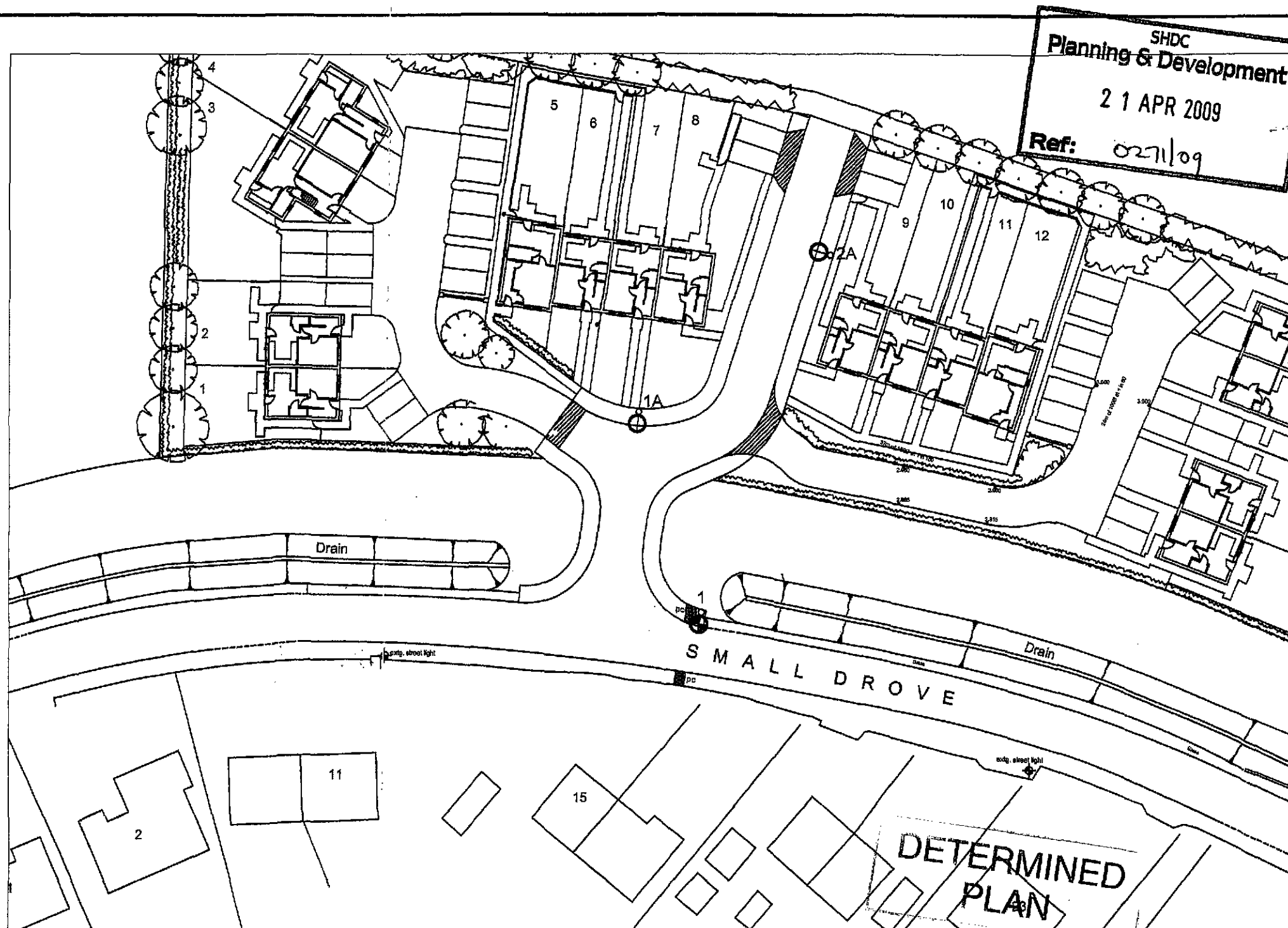


6 METRE TYPE MIO COLUMN WITH POST TOP LANTERN
(50W SONTPP/LPG/VARIABLE MATRIX OR
EQUIVALENT). PHOTOCELL SET AT 35 LUX / 17 LUX.

6 METRE TYPE MIO COLUMN WITH POST TOP LANTERN
(FGS224/36W PLL OR EQUIVALENT). PHOTOCELL SET
AT 35 LUX / 17 LUX.

1. COLUMN FOUNDATIONS TO BE AS PER SD7A/14/2A.
2. ALL COLUMNS TO BE PROVIDED WITH ELECTRICITY COMPANY SERVICES AND TERMINATION TYPE A TO L.C.C. STANDARD DETAIL SD7A/14/4A. REC CUTOUTS TO BE FITTED WITH 16 AMP BS88 FUSE LINK. DOUBLE POLE ISOLATOR TO BE FITTED WITH 4 AMP BS88 FUSE LINK.
3. ALL COLUMNS TO BE SITED WITHIN THE ADOPTABLE HIGHWAY AND GENERALLY IN COMPLIANCE WITH APPENDIX H OF THE CURRENT LINCOLNSHIRE DESIGN GUIDE FOR RESIDENTIAL AREAS.
4. COLUMN SETBACKS SHALL COMPLY WITH SECTION 5.2.1.2 OF BS5489-1:2003.
5. COLUMNS SHALL NOT BE INSTALLED WITHIN DROP KERB AREAS AND SHALL HAVE A MINIMUM CLEARANCE OF 1.5m FROM DRIVES/ACCESSSES.
6. IT IS PREFERRED THAT ALL STREET LIGHTING WORKS ARE UNDERTAKEN BY L.C.C. APPROVED CONTRACTORS.
7. LANTERNS TO BE RE-LAMPED (DURING MAINTENANCE PERIOD) PRIOR TO ADOPTION AS DETAILED IN THE SECTION 38 AGREEMENT.
8. DEVELOPER TO LIAISE WITH ELECTRICITY COMPANY WITH REGARDS TO CONNECTIONS AND DISCONNECTIONS OF COLUMNS AND APPROPRIATE BLACK DUCTING.
9. THE DEVELOPER IS MADE AWARE OF THE SEVERAL APPENDICES TO THE SPECIFICATION FOR HIGHWAY WORKS RELATING TO ROAD LIGHTING.



Client Provided Drawing Number: NOT SPECIFIED

(NOT TO BE USED FOR TENDER OR CONSTRUCTION PURPOSES)

Lincolnshire
COUNTY COUNCIL

Description:	SMALL DROVE SECTION 38 WORKS PROPOSED STREET LIGHTING	
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D/HREXD6013 / 01 / 5000

Rev:

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X-Refs & Blocks used in this Drawing
x-cont base
x-propSL

Revision	Date:	Description:	Amendment Drawn By:	Amendment Draughted By:	Amendment Approved By:

Scale: 1:500
(@A3)

Drawn by
JDR

Draughted by:
CAD

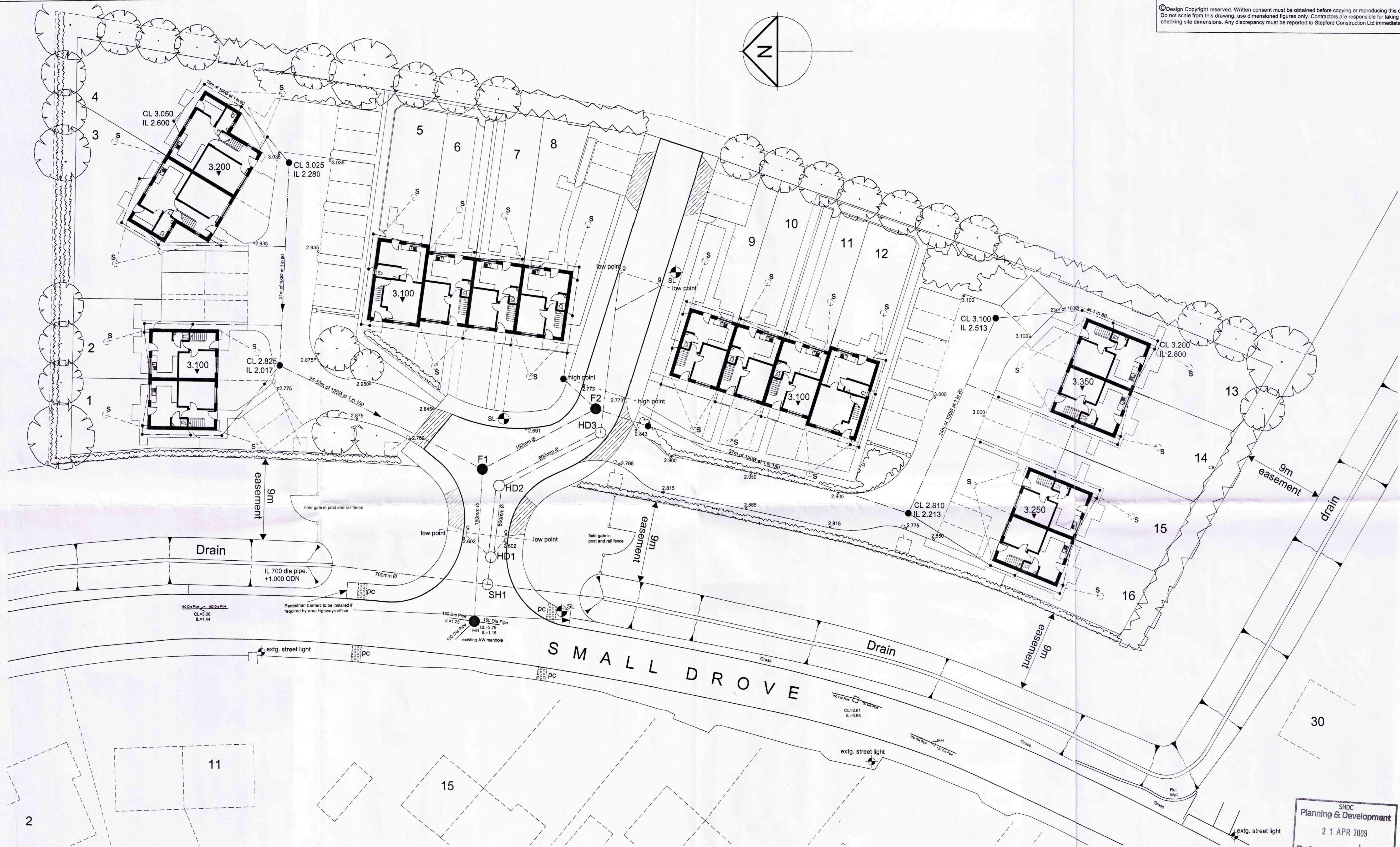
1st Approval By:
SH

1st Approval Date	16/02/09
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FOR THIRD PARTY USE, THIS DRAWING SHALL BE DEEMED TO BE
CURRENT ONLY ON THE DATE OF APPROVAL. PLEASE CHECK FOR
AMENDMENTS BEFORE USE.

Paper Size	Schema Reference	ID Number	Drawing Series No.
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Revision



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Heatherdown Elm Lane Low Fulney Spalding Lincs PE12 6EQ
 T: 01775 720995 F: 01775 720996
 www.stepfordconstruction.com

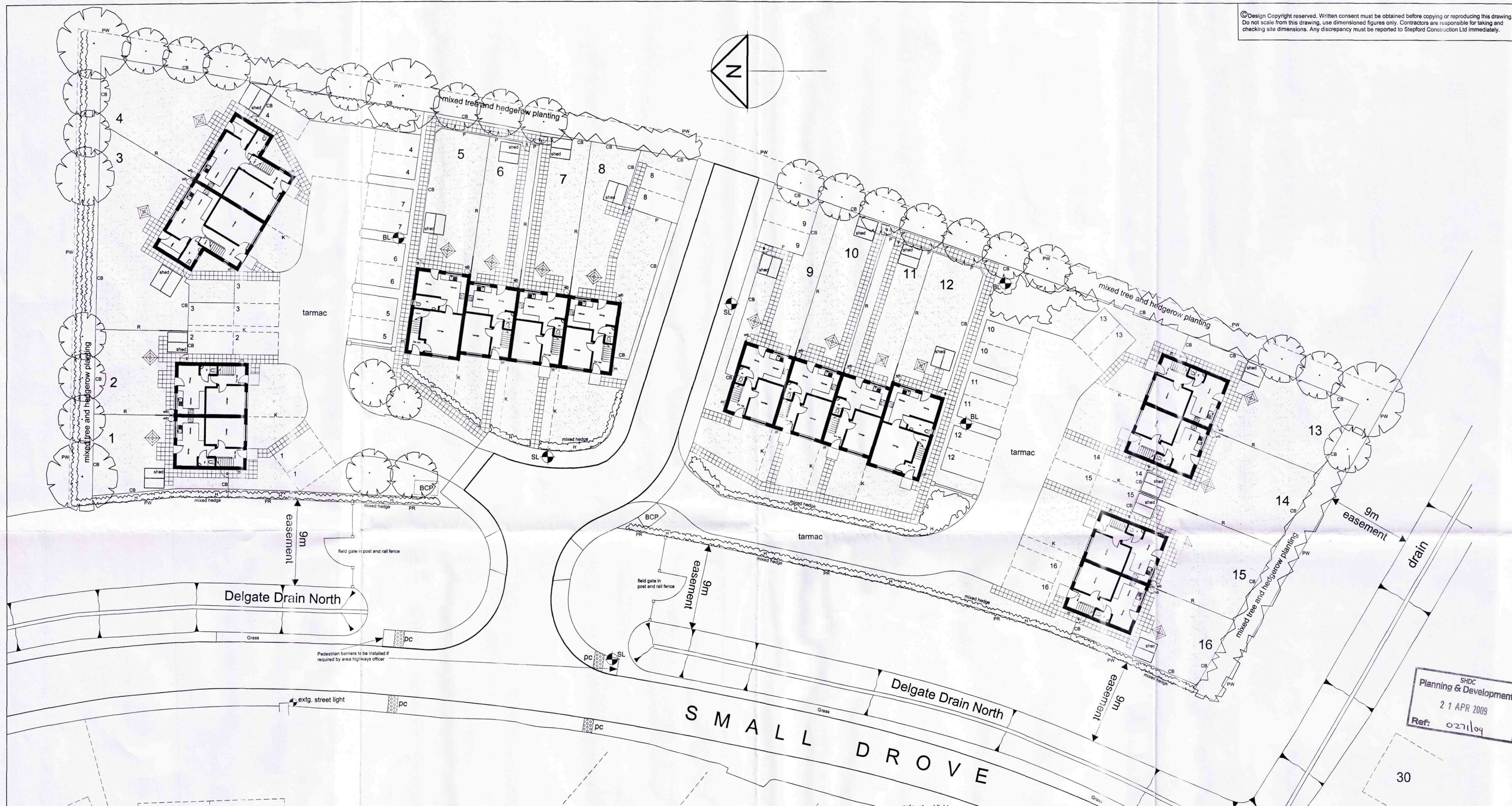
Drawing to be read in-conjunction with
 Road & Sewer Layouts, Sections & Details.
 08/10/010 A & 08/10/11A

Street lighting to be designed by LCC

**DETERMINED
 PLAN**

Project		Scale
Affordable Housing Scheme for : ESHA (Developments) Ltd		1:200
Small Drive, Weston, Spalding, Lincolnshire.		Date
Feb 2009		Drawing No.
08/017/011		Revision
Drainage Layout		A
Incorporating individual fw & sw house drainage		

SHDC
 Planning & Development
 21 APR 2009
 Ref: 0271109



LEGEND

- cb = 1.8m high timber close board fence
 p = 1.8m high timber palisade fence
 r = rear dividing gardens to be:
 1.8m high close board timber privacy fence (2m long) &
 1.2m high close board fence with 600mm trellis top.
 pw = 0.9m high post and wire (1 strand + concrete post)
 pr = 1.2m high timber post and rail (3 rails)
 k = 0.45m high timber knee rail
 g = personnel gate (lockable)
 h = mixed frontage hedge (native species)

- SL Street Lights BL Bollard Lights
 Rotary Dryer
 4m² Garden Shed (internal area)
 6m² req'd for 4 Bed houses
 (on concrete base)
 Paths - 900mm (min)
 (1200mm² (min) level landings at all door positions.
 in accordance with Part M - Building Regulations).
 wb Water Butt (on slab base)
 Meter Box
 BCP Bin Collection Point (2.5x1.5m slab base)

Street lighting to be designed by LCC
 Private drive lighting to comply with Secured by Design
 Parking spaces to be granite chippings with edge restraint

SHDC
 Planning & Development
 21 APR 2009
 Ref: 027109

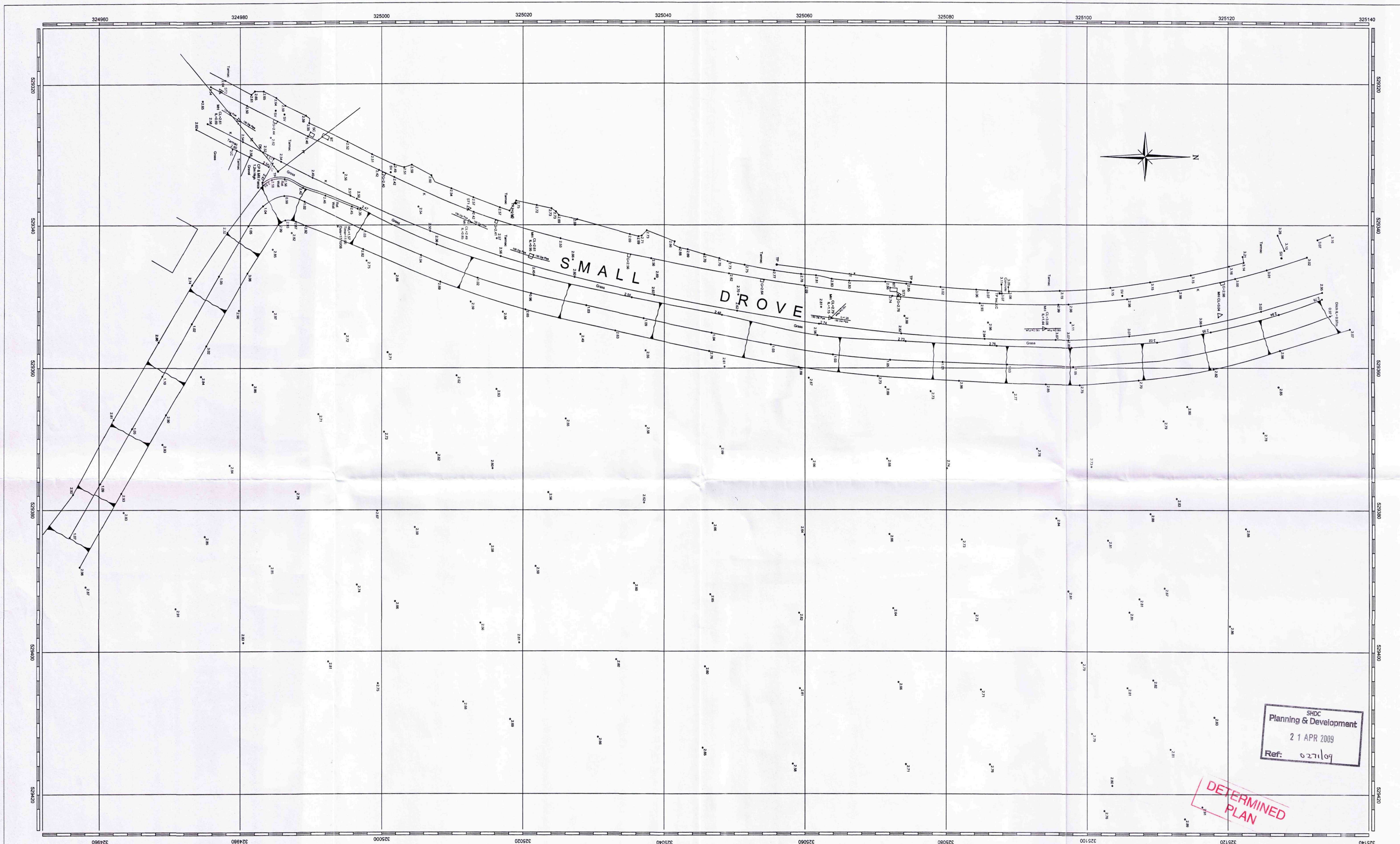
C	Bin collection point incorporated to layout	20.4.09
B	Highways and Drainage amendments (by H Price eng.)	31.3.09
A	Street lighting incorporated to layout & fencing amends.	4.3.09
Rev	Description	Date

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Heatherdown Elm Lane Low Fulney Spalding Lincs PE12 6EQ
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Scale	1:200
Date	Feb 2009
Drawing No.	08/017/010
Revision	C

Title
 External Works Layout



SHDC
Planning & Development
21 APR 2009
Ref: 0271109

**DETERMINED
PLAN**

NOTES

1. All co-ordinates are shown relative to Ordnance Survey National Grid System, established using GPS. (Global Positioning System).
2. All levels are shown relative to Ordnance Survey datum, established using GPS.

Fence Line Abbreviations			
TP Timber Post	R Rail	WM Wire Mesh	
MP Metal Post	P Paving	CL Chain Link	
CP Concrete Post	CB Close Boarded	W Wire	
CR Corrugated Iron	IR Iron Rolling	HM Hit & Miss	

Top / Bottom of Bank	CL= Cover Level	FLL= Finished Floor Level
Building / Overhead Canopy Line	10.15 Spot Level	IL= Invert Level
Wall	UTL Unable to Lift	
Change of Surface	BH Borehole	T.PIT Trial Pit
Kerb / Dropped Kerb Line	22.55 (with level)	22.55 (with level)
Drainage Channel		
Fence Line		
Hedge Line		
Tree / Scrub Canopy Line		
O/H Telephone Cable		
O/H Electricity Cables		
Rock Face		

Survey Station	Mark Marker Post	TL Traffic Light
MH Manhole	ER Earth Road Cover	BB Ballista Beacon
CP Catchpit	RE Rodding Eye	Q= Gully
IC Inspection Cover	EL Electricity Cover	KO Kerb Offset
UTS Unable to Survey	BT British Telecom	RWP Rain Water Pipe
SC Service Cover	CTV Cable	CTV Cable
FM Fire Hydrant	TP Telephone Post	TCB Telephone Call Box
GAS Gas Cover	EP Electricity Post	LB Litter Bin
WM Water Meter	LC Lamp Column	
SV Stop Valve	SP Sign Post	
WV Water Valve	RS Road Sign	

Rev	Description	Date	Signed

SURVEYLINE
GEOMATICS UK Limited
LAND & BUILDING SURVEYORS

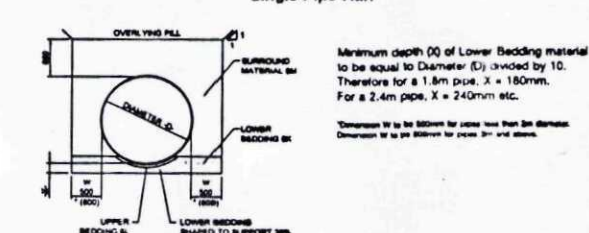
1 Lyndon Business Park
Farrier Road
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Fax: 01522 509401
E Mail: mail@surveyline-uk.com
Web: www.surveyline-uk.com

Client : Focus Consultants UK			
Project : PROPOSED DEVELOPMENT, SMALL DROVE, WESTON, SPALDING, LINCOLNSHIRE.			
Title : Topographical Survey			
Drawn	S.D.S.	Checked	C.A.G.
Date	Oct 2008	Scale	1:250
			Original Size A1
Drawing No. SL2092/1			

THE SPECIFICATION IN ALL RESPECTS SHALL BE IN ACCORDANCE WITH THE CURRENT LINCOLNSHIRE DESIGN GUIDE FOR RESIDENTIAL AREAS AND 'DEVELOPMENT ROAD SPECIFICATION AND CONSTRUCTION' PUBLICATIONS IN FORCE IN THE COUNTY AT THE TIME OF CONSTRUCTION.

EXCAVATION AND BACKFILL REQUIREMENTS ACCORDING TO BD12 Single Pipe Run



The above information is taken from the Design Manual For Roads and Bridges. The maximum total value is as described in Section 8.1.1.1.1.

Backfill & Bedding Materials Specification

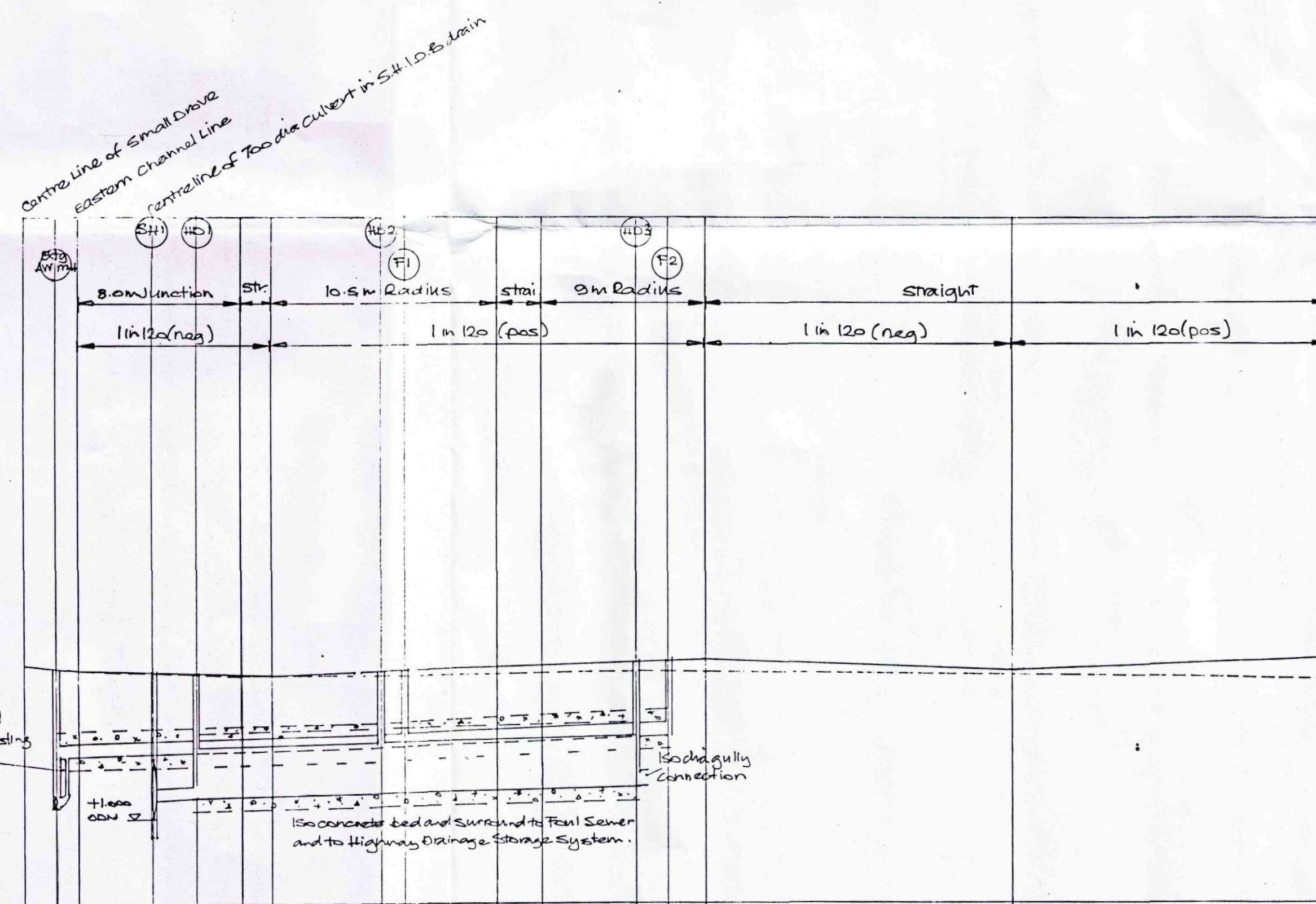
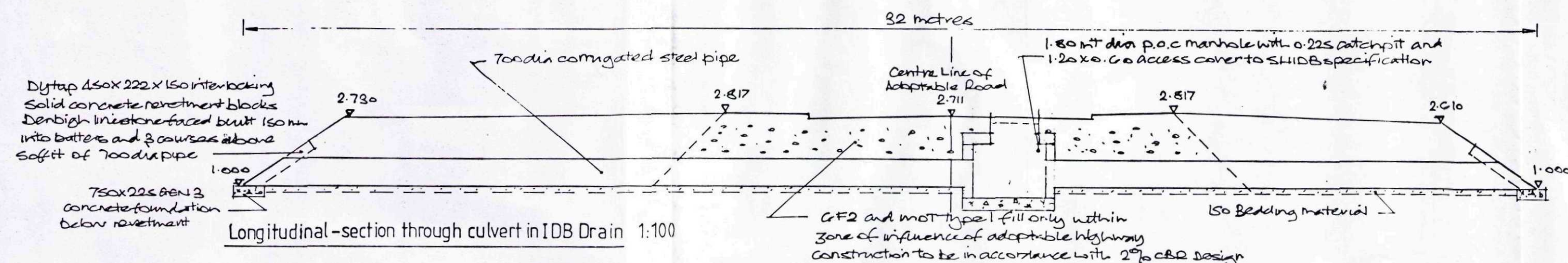
Material	Specification
Lower bedding material	BD 12: Natural gravel, natural sand, washed gravel, washed sand or other material of equivalent strength and composition.
Upper bedding material	BD 12: Natural gravel, natural sand, washed gravel, washed sand or other material of equivalent strength and composition.
Removal material	BD 12: Natural gravel, natural sand, washed gravel, washed sand or other material of equivalent strength and composition.

Minimum Depth of Trenches

Material	Minimum Depth (mm)
Lower bedding material	150
Upper bedding material	150
Removal material	150

Manhole schedule

M.H. Ref	C.L.	L.L.	Dia	Type	Notes
Extg AW	2.730	1.730	N/A	N/A	Install external backdrop
F1	2.650	1.810	1200	X	
F2	2.730	1.960	1200	X	
HD1	2.660	1.270	2100	B	Install Hydraulic Deflag. S.H. - R2m
HD2	2.685	1.310	1500	B	
HD3	2.760	1.378	1500	B	
SH1	2.630	1.250	1800	Catchpit	Convert to be 1200mm clear opening.



DISTANCE (metres)	EXISTING GROUND LEVELS	PROPOSED ROAD LEVEL	HIGHWAY DRAIN INVERT	FOUL SEWER INVERT
0	2.650	2.730	1.730	1.250
3.50	2.650	2.730	1.730	1.250
5.50	2.650	2.730	1.730	1.250
7.70	2.650	2.730	1.730	1.250
9.05	2.650	2.730	1.730	1.250
14.10	2.650	2.730	1.730	1.250
15.30	2.650	2.730	1.730	1.250
19.77	2.650	2.730	1.730	1.250
21.57	2.650	2.730	1.730	1.250
22.27	2.650	2.730	1.730	1.250
23.57	2.650	2.730	1.730	1.250
44.00	2.650	2.730	1.730	1.250

Longitudinal-section of Road 1
HORIZ 1:200
VERT 1:50



Location plan (1:2500)

DETERMINED PLAN

SHDC
Planning & Development
21 APR 2009
Ref: 0271/09

Rev	Description	Date
C	1.0B manhole added to Long-sections	26/06/09
B	Long-section of culvert and bedding and backfill notes added	16/06/09
A	Storage system added to highway drain - all manholes	16/06/09

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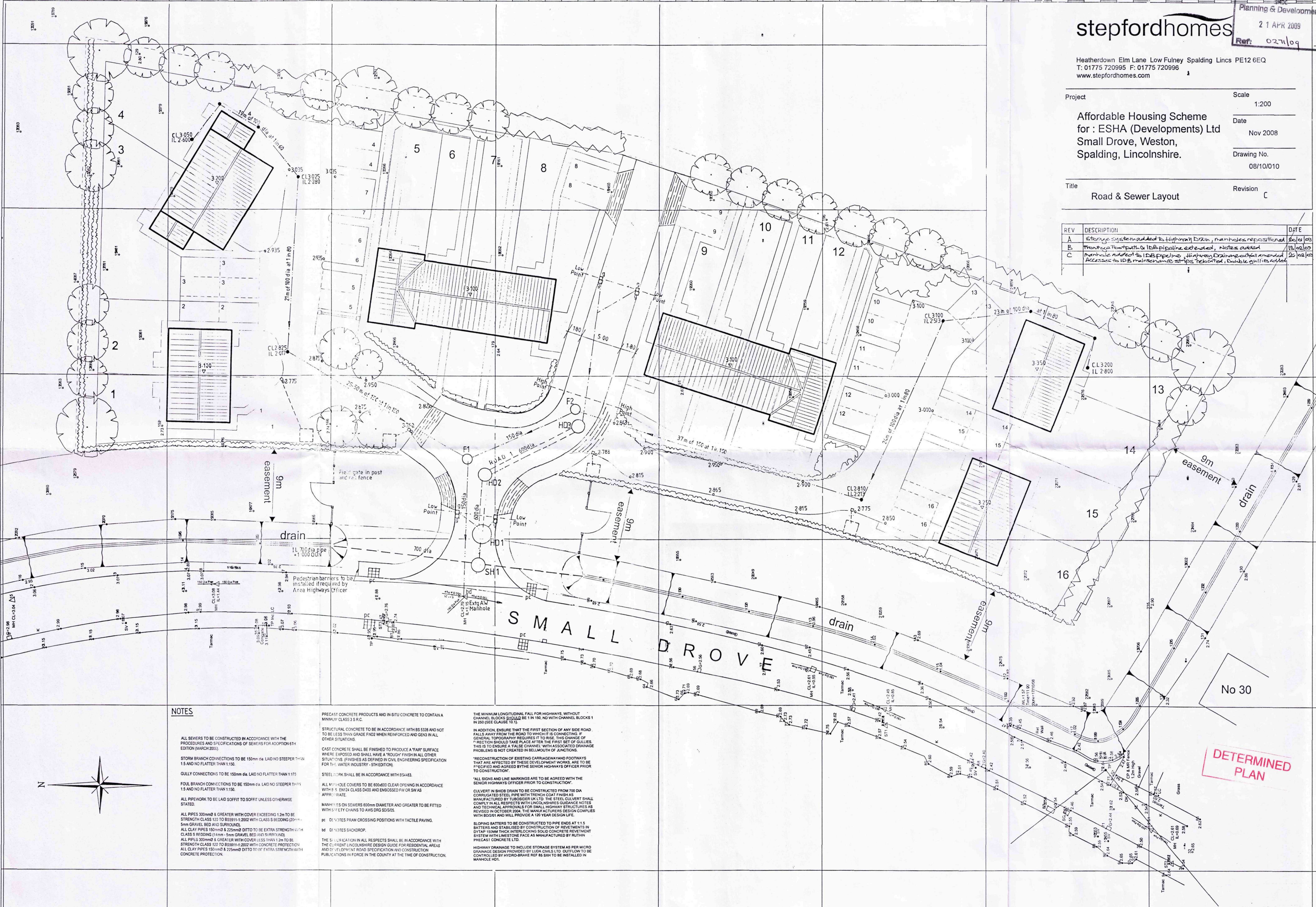
Heatherdown Elm Lane Low Fulney Spalding Lincs PE12 6EQ
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Project	Scale
Affordable Housing Scheme for : ESHA (Developments) Ltd	Various
Small Drive, Weston, Spalding, Lincolnshire.	Date
	Nov 2008
	Drawing No.
	08/10/011
Title	Revision
Long-sections and location plan	C

Heatherdown Elm Lane Low Fulney Spalding Lincs PE12 6EQ
T: 01775 720995 F: 01775 720996
www.stepfordhomes.com

Project	Scale
Affordable Housing Scheme for : ESHA (Developments) Ltd Small Drive, Weston, Spalding, Lincolnshire.	1:200
Date	Nov 2008
Drawing No.	08/10/010
Revision	C
Title	Road & Sewer Layout

REV	DESCRIPTION	DATE
A	Storage system added to Highway Drain, manholes repositioned	26/01/09
B	Manhole to path & 150mm pipeline extended, Notes added	19/02/09
C	Manhole added to 150mm pipeline, Highway Drain & path amended Access to 150mm maintenance strips relocated, Double gullies added	25/02/09



NOTES

- ALL SEWERS TO BE CONSTRUCTED IN ACCORDANCE WITH THE PROCEDURES AND SPECIFICATIONS OF SEWERS FOR ADOPTION 6TH EDITION (MARCH 2000).
- STORM BRANCH CONNECTIONS TO BE 150mm dia LAID NO STEEPER THAN 1:5 AND NO FLATTER THAN 1:150.
- GULLY CONNECTIONS TO BE 150mm dia LAID NO FLATTER THAN 1:15.
- POUL BRANCH CONNECTIONS TO BE 150mm dia LAID NO STEEPER THAN 1:5 AND NO FLATTER THAN 1:150.
- ALL PIPEWORK TO BE LAID SOFFIT TO SOFFIT UNLESS OTHERWISE STATED.
- ALL PIPES 300mm & GREATER WITH COVER EXCEEDING 1.2m TO BE STRENGTH CLASS 120 TO BS5911-1:2002 WITH CLASS 5 BEDDING (DIN 1136) 5mm GRAVEL BED AND SURROUNDING.
- ALL CLAY PIPES 150mm & 225mm DITTO TO BE EXTRA STRENGTH WITH CLASS 5 BEDDING (11mm 5mm GRAVEL BED AND SURROUNDING).
- ALL PIPES 300mm & GREATER WITH COVER LESS THAN 1.2m TO BE STRENGTH CLASS 120 TO BS5911-1:2002 WITH CONCRETE PROTECTION.
- ALL CLAY PIPES 150mm & 225mm DITTO TO BE EXTRA STRENGTH WITH CONCRETE PROTECTION.
- PRECAST CONCRETE PRODUCTS AND IN-SITU CONCRETE TO CONTAIN MINIMUM CLASS 3 S.R.C.
- STRUCTURAL CONCRETE TO BE IN ACCORDANCE WITH BS 5328 AND NOT TO BE LESS THAN GRADE F20 WHEN REINFORCED AND GRS IN ALL OTHER SITUATIONS.
- CAST CONCRETE SHALL BE FINISHED TO PRODUCE A 'FAIR' SURFACE WHERE EXPOSED AND SHALL HAVE A 'ROUGH' FINISH IN ALL OTHER SITUATIONS (FINISHES AS DEFINED IN CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY - 5TH EDITION).
- STEELWORK SHALL BE IN ACCORDANCE WITH BS 5443.
- ALL MANHOLE COVERS TO BE 600mm CLEAR OPENING IN ACCORDANCE WITH F.S. 5012 CLASS D405 AND EMBOSSED FW OR SW AS APPROPRIATE.
- MANHOLE COVERS ON SEWERS 600mm DIAMETER AND GREATER TO BE FITTED WITH STEEL CHAINS TO AWS D80 S0505.
- pc: DENOTES PIPES CROSSING POSITIONS WITH TACTILE PAVING.
- bd: DENOTES BACKDROP.
- THE SPECIFICATION IN ALL RESPECTS SHALL BE IN ACCORDANCE WITH THE CURRENT LINCOLNSHIRE DESIGN GUIDE FOR RESIDENTIAL AREAS AND CIVIL ENGINEERING SPECIFICATION AND CONSTRUCTION PUBLICATIONS IN FORCE IN THE COUNTY AT THE TIME OF CONSTRUCTION.
- THE MINIMUM LONGITUDINAL FALL FOR HIGHWAYS, WITHOUT CHANNEL BLOCKS SHOULD BE 1 IN 150, NO WITH CHANNEL BLOCKS 1 IN 250 (SEE CLAUSE 10.1).
- IN ADDITION, ENSURE THAT THE FIRST SECTION OF ANY SIDE ROAD FALLS AWAY FROM THE ROAD TO WHICH IT IS CONNECTING IF GENERAL TOPOGRAPHY REQUIRES IT TO RISE. THIS CHANGE OF DIRECTION SHOULD TAKE PLACE AFTER THE FIRST SET OF GULLIES. THIS IS TO ENSURE A FALSE CHANNEL WITH ASSOCIATED DRAINAGE PROBLEMS IS NOT CREATED IN THE MOUTH OF AN JUNCTION.
- 'RECONSTRUCTION OF EXISTING CARRIAGEWAYS AND FOOTWAYS THAT ARE AFFECTED BY THESE DEVELOPMENT WORKS ARE TO BE "STRENGTH AND AGREED BY THE SENIOR HIGHWAYS OFFICER PRIOR TO CONSTRUCTION".
- 'ALL SIGNS AND LINE MARKINGS ARE TO BE AGREED WITH THE SENIOR HIGHWAYS OFFICER PRIOR TO CONSTRUCTION'.
- CULVERT IN SHOULDER DRAIN TO BE CONSTRUCTED FROM 100 DIA CORRUGATED STEEL PIPE WITH TRENCH COAT FINISH AS MANUFACTURED BY TUBOSIDER UK LTD. THE STEEL CULVERT SHALL COMPLY IN ALL RESPECTS WITH LINCOLNSHIRE GUIDANCE NOTES AND TECHNICAL APPROVALS FOR SMALL HIGHWAY STRUCTURES AS REVISED IN OCTOBER 2004. THE MANUFACTURER'S DESIGN COMPLIES WITH BS0201 AND WILL PROVIDE A 120 YEAR DESIGN LIFE.
- SLOPING BATTERS TO BE CONSTRUCTED TO PIPE ENDS AT 1:1.5 BATTERS AND STABILISED BY CONSTRUCTION OF REINFORCEMENTS IN DYPAT 150mm THICK INTERLOCKING SOLID CONCRETE RETAINMENT SYSTEM WITH LIMESTONE FACE AS MANUFACTURED BY RUTHIN PRECAST CONCRETE LTD.
- HIGHWAY DRAINAGE TO INCLUDE STORAGE SYSTEM AS PER MICRO DRAINAGE DESIGN PROVIDED BY LUDA CIVILS LTD. OUTFLOW TO BE CONTROLLED BY HYDRO-BRAKE REF 85 SXH TO BE INSTALLED IN MANHOLE HD1.

DETERMINED
PLAN