HIGHWAY NOTES

Hatch indicates new graveled shared driveway

Area within visibilty splay for new site access

Hatch indicates new red block paved private parking bays

125 x 255 Channel block laid on edge

EF Edging Kerb

P.C.C Bullnosed drop kerb (25mm face)

P.C.C Half Battered (HB) kerb (110mm face)

Full highway construction as per dwg 1591-99

Dropper kerb / transition kerb

S278 Works in existing highway

HIGHWAY WORKS TO BE APPROVED BY LINCOLNSHIRE COUNTY COUNCIL AS A MINOR HIGHWAY WORKS AGREEMENT



DRAINAGE LEGEND

- Proposed foul water sewer (Adoptable)
- Proposed surface water sewer (Adoptable)
- Private surface water drain and chamber, pipe diameter, gradient and chamber diameter and levels indicated.
- Private foul water drain and chamber, pipe diameter, gradient and chamber diameter and levels indicated.
- Adoptable chamber 1200 mm diameter manhole to either Type A, B or E to Water Authority specification and approval.
- Private manhole 1200 mm diameter PCC chamber
- New surface water manhole PCC chamber with hydro-brake flow control and sump
- New surface water 1200mm diameter catchpit PCC chamber with 600mm sump.
- Polypropylene universal inspection chambers, 450 dia, 100 inlet / outlet connections (6 no. max) (depth 0,6m or less)
- Polypropylene universal inspection chambers, 450 dia, 150 inlet / outlet connections (4 no. max) (depth 1,2m or less)
- RE — Rodding eye to be same diameter as downstream drain
- Yard Gully (trapped) with 100mm connection
- Road Gully (450 mm trapped) with 150mm connection
- FL2.750 — Internal finished floor levels
- Proposed Aco drainage channel, complete with sump box and rodding eye, (Size and type to be confirmed by Engineer)
- Private attenuation as Wavin AquaCell or similar approved with perforated distributor pipe.
- Rigid perforated collector pipe wrapped in Terram and backfilled with clean angular stone
- Porous paving to be 60mm thick concrete block on 50mm 6mm gravel and 300mm thick sub-base

DRAINAGE NOTES:

All external drainage works shall be constructed in accordance with 'Civil Engineering Specification for the Water Industry' 7th Edition, BE EN 752 and 'Sewers for Adoption' 6th edition for adoptable drainage, and to the relevant project specification as directed by the engineer for private drainage

The specification and installation of the drainage systems are to comply with the Building Regulations Approved Document H & BS EN 752 Building Drainage current at the time of construction..

Generally laid to falls of 1:40 unless otherwise stated.

Private sewers serving more than 10 dwellings to be 150mm dia.

All pipe chambers and in accordance fittings to be installed, bedded and backfilled in accordance with the manufacturers instructions.

Private drains and sewers which pass adjacent to building foundations to be constructed in accordance with Part H of the Building Regulations.

All private drains to incorporate preformed inspection and shallow access chambers where possible,

Traditional chamber (private) to be constructed using precast concrete sections with 150mm concrete surround,

Depth to I.L	MJH, chamber size (internal)
1,0m or less	450 x 450mm(normally a preformed chamber 0,9m depth or less)
1,5m or less	1200x750mm or 1200mm dia,
> 1.5m	1200x750mm or 1200mm dia,

PIPE MATERIAL SHALL BE AS FOLLOWS:

100D to 225D - Clayware to BS EN 295
300D and above - Concrete to BE EN 5911

NB, PVCu pipes to BS EN 1401-1:1998 may be used subject to the approval of the engineer

Rodding eyes are to be laid to manufacturers minimum cover and depth to allow adequate fall,.

Clay and concrete pipes shall be bedded on a minimum 150mm Class S bed and surround unless cover is less than 1,2m in trafficked area, then C20 concrete slab

UPVC pipes to have a granular Bed & Surround in accordance with manufactures recommendations, ensuring adequate protection with respect to depth and location.

Backfill to trenches to be Type 1 granular material and to be used under hardstandings and roads, landscape areas may use suitable excavated material subject to the engineers approval

Gully connections shall have a bed and surround of 150mm ST1 concrete with sulphate resistant cement to SHW Clause 2602

Gullies shall be trapped 450mm diameter x 1050mm deep with class D400 frame and grating to BS EN 124 unless otherwise stated

Design of the drainage channels where shown is indicative only, detailed design shall be undertaken by the channel manufacturer/supplier, design and supporting calculations shall be supplied to the engineer for approval,.

All manhole and drainage channel covers shall comply with BS EN 124, manhole covers within block paved areas & building shall be recessed, cover strengths to be >

Class D400 in heavy trafficked areas (access roads, service yards etc.)
Class C250 in lightly trafficked areas (car parks etc.)
Class B125 (with min, 100mm deep frame) in landscape & non-trafficked areas (planting, pedestrian areas etc.)

Ventilation shall be provided at the head of foul drainage runs

Access for rodding/jetting shall be provided to all soil and rainwater downpipes above finished level

Cover levels shown are approximate, cover levels for manholes within landscape areas should be checked with the landscape architects, covers should be adjusted to match surrounding finished levels

The contractor is to protect existing buried pipes and tree roots from damage caused by loads imposed by construction plant,

All new drainage to be jetted and CCTV surveyed on completion, Contractor to make sure that the drainage is fully operational,

All runs connecting to the public drainage network to be vitrified Clay with plain sleeved or socketed joints.

REV	DATE	DESCRIPTION/REASON FOR ISSUE	APPR
B	17/9/15	UPDATED FOLLOWING HW COMMENTS	MRF
A	3.8.15	ACCESS ARRANGEMENT REVISED	

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TITLE
Proposed Residential Development Ye Olde Dun Cow, Barrier Bank Cowbit, Spalding, PE12 6AL Highway Minor Works Plan

ORIG	DATE
JTC	July 2015
CHKD	SCALE 1:200 @ A1
APPR	DRAWING NO 1591-02 REV B

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