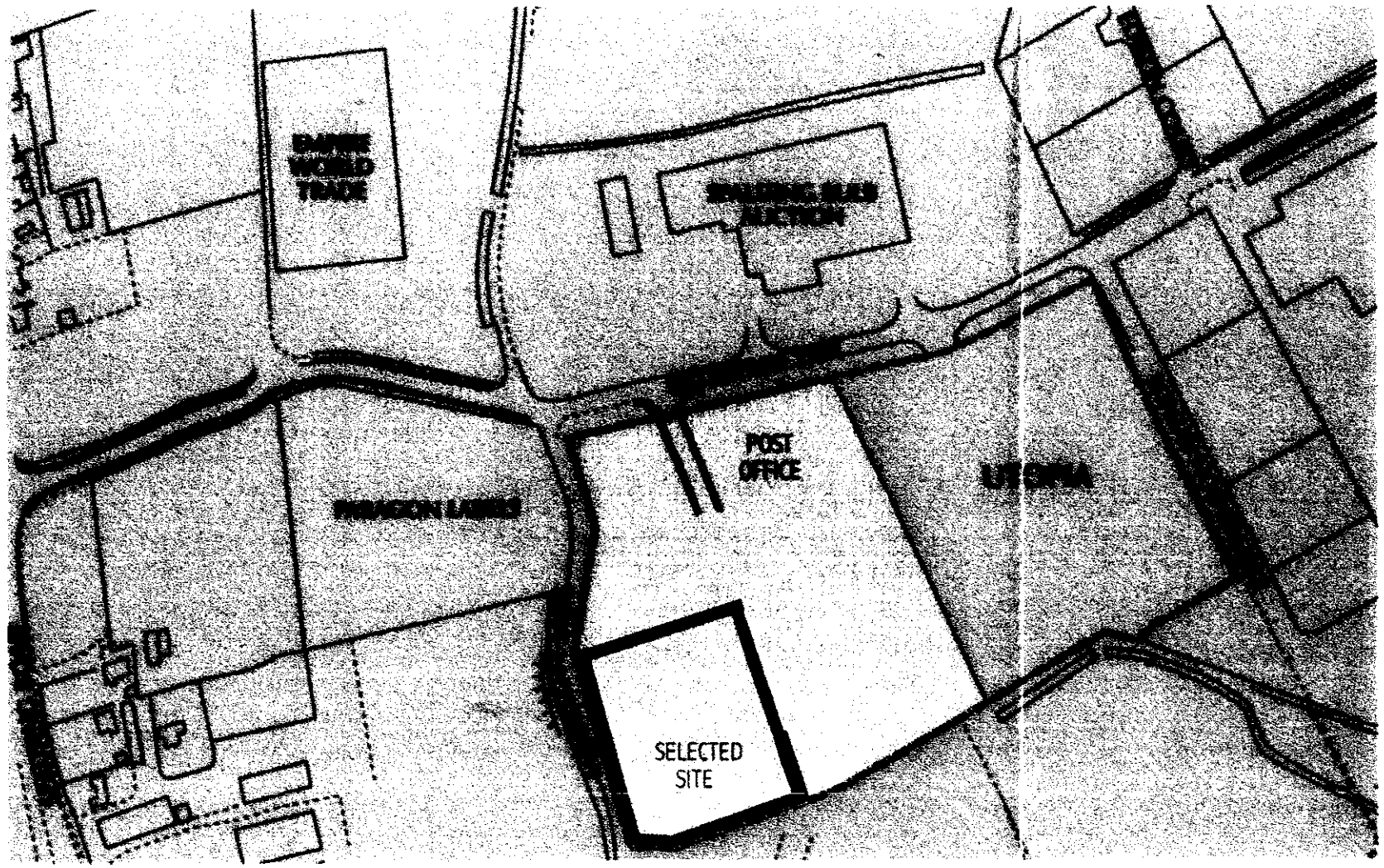
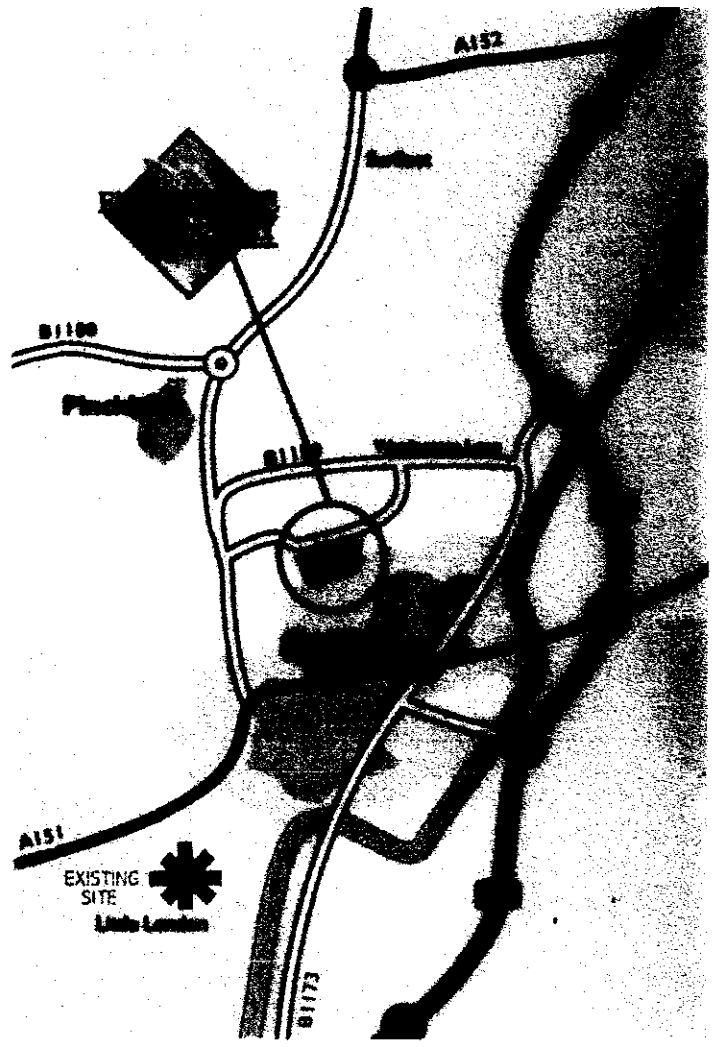


SITE PLAN°



LOCATION PLAN°

SOUTH HOLLAND DC
HOUSING & PLANNING
26 JUL 2001
Ref: 089101

DETERMINED
PLAN

LINDUM GROUP

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FIGURED DIMENSIONS ONLY

LINDUM CONSTRUCTION
Lindum House, Lindum Business Park, Station Road
North Hykeham, Lincoln LN6 3QX
Telephone (01522) 500500 Fax (01522) 872221

client
LOCTEK LIMITED

project
NEW STORAGE FACILITY
SOUTH SPRING WAY
PETERBOROUGH, PE2 6UR
SITE/BUILDING

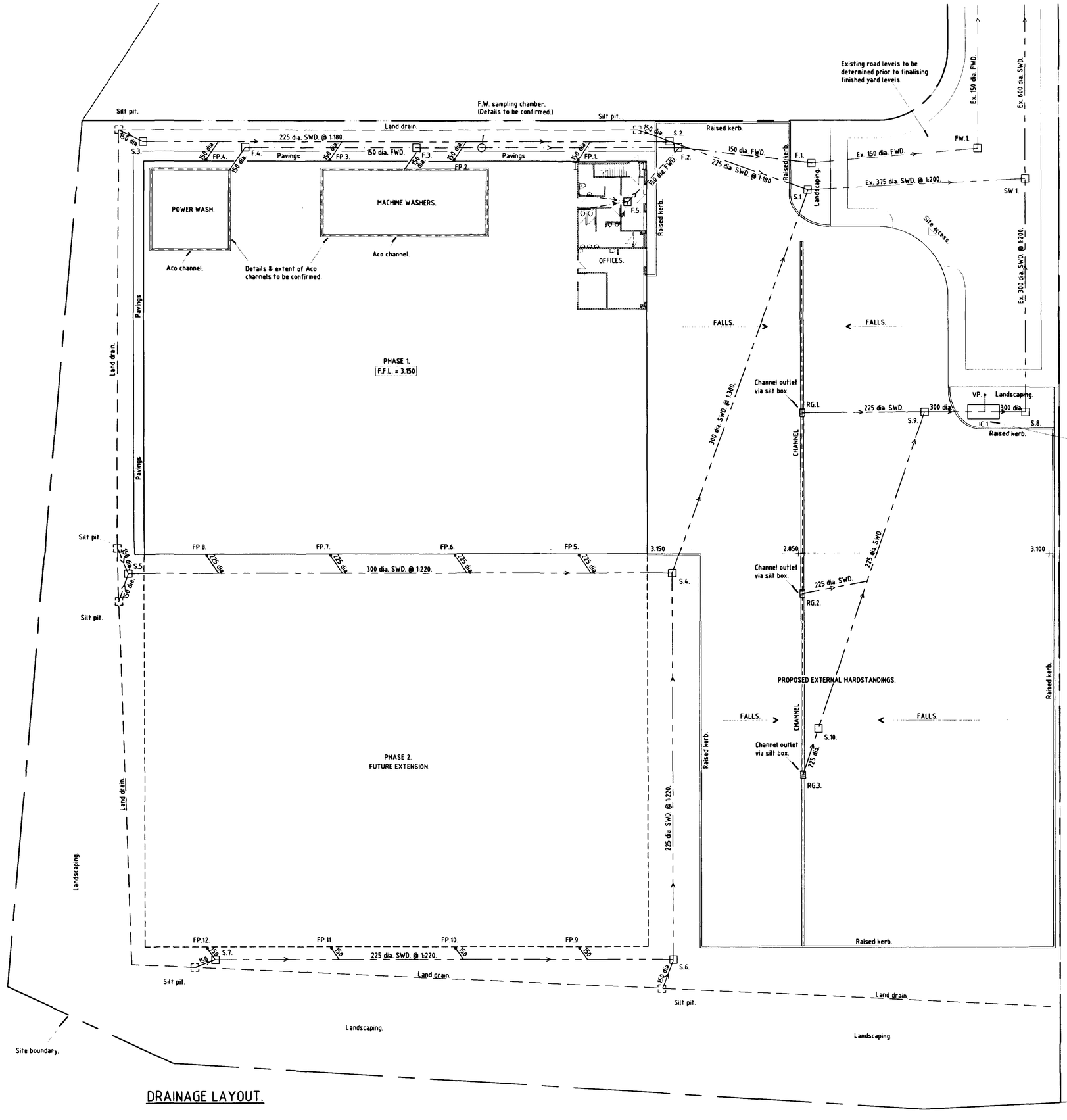
drawing
SITE/LOCATION PLAN

date
JUNE 2001

scale
1:1250

drawing no.
LD01/022/01

revision



DRAINAGE LAYOUT.

Notes

do not scale off this drawing.

1. For general drainage details refer to drawing no. 1074/05.
2. Rodding eye facilities are to be provided 600mm. above ground/slab level to all fall pipes.
3. Contractor must check and advise Peter Moss and Associates of the invert Levels which are present within the existing manholes ref. FW.1. + SW.1. and at the existing drains at F.1. + S.1. + S.8. positions prior to any of the drainage works being commenced.
4. NOTE.....Manholes ref. S.6. and S.7. and the drain runs between S.4. to S.6. and S.6. to S.7. are Phase 2 works and are not to be installed as elements of this contract.

IN ABEYANCE

SURFACE WATER MANHOLE SCHEDULE.

Ref.	Cover lvl.	Invert lvl.	Size. (dia.)	Cover.
S.W.1.	3.360	1.475	Existing.	
S.1.	3.150	1.820	1200 P.C.C.	600 sq. H.D.
S.2.	3.000	2.150	1050 P.C.C.	600 sq. H.D.
S.3.	3.000	2.450	1050 P.C.C.	600 sq. H.D.
S.4.	3.100	2.080	1200 P.C.C.	600 sq. H.D.
S.5.	3.000	2.325	1050 P.C.C.	600 sq. H.D.
S.6.	3.000	2.327	1050 P.C.C.	600 sq. H.D.
S.7.	3.000	2.525	1050 P.C.C.	600 sq. H.D.
S.8.	3.100	1.870	1050 P.C.C.	600 sq. H.D.
S.9.	2.975	2.020	1050 P.C.C.	600 sq. H.D.
S.10.	2.900	2.300	1050 P.C.C.	600 sq. H.D.

IN ABEYANCE

FOUL WATER MANHOLE SCHEDULE.

Ref.	Cover lvl.	Invert lvl.	Size.	Cover.
FW.1.	3.350	0.873	Existing.	
F.1.	3.200	1.200	1050 P.C.C.	600 sq. H.D.
F.2.	3.000	1.500	1050 P.C.C.	600 sq. H.D.
F.3.	3.000	2.000	1050 P.C.C.	600 sq. H.D.
F.4.	3.000	2.400	1050 P.C.C.	600 sq. H.D.

Highlighted copy

ref.	revision.	date.
1.	Extent of hardstandings defined.	28.01.02.

SHDC
Planning & Development
29 JAN 2002
Ref

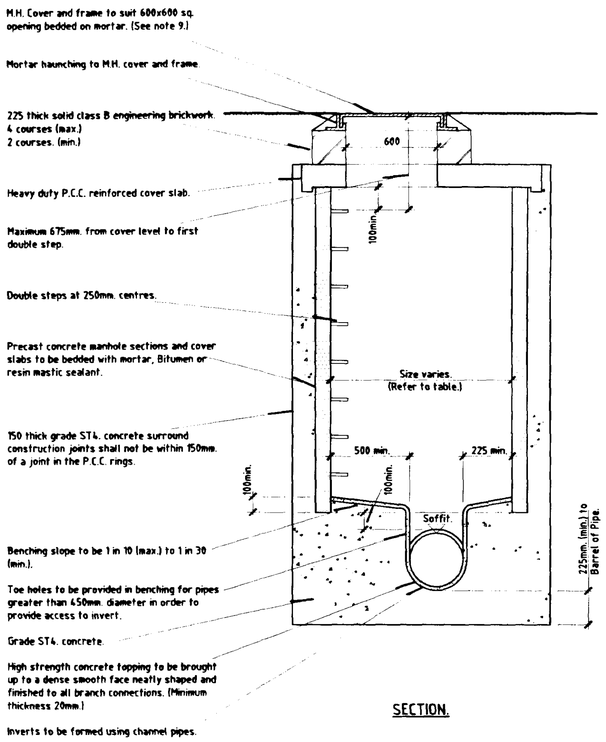
title.
NEW STORAGE FACILITY
ENTERPRISE WAY
ENTERPRISE PARK
SPALDING.
FOR LOGTEK LTD.
DRAINAGE LAYOUT.

client.
LINDUM CONSTRUCTION
LINDUM HOUSE
LINDUM BUSINESS PARK
STATION ROAD
NORTH HYKEHAM
LINCOLN.

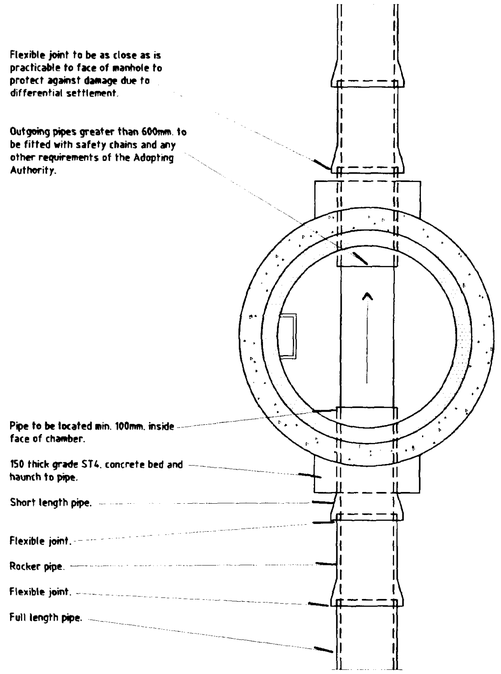
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scale. 1 : 200.
drn. D.G.I.
chd.

Peter Moss and Associates
18 - 22 Micklegate
Pontefract
West Yorkshire
WF8 1DG
Tel: (01977) 797041
Fax: (01977) 600342.

drg. no. 1074/04.
rev. 1



SECTION.



PLAN.

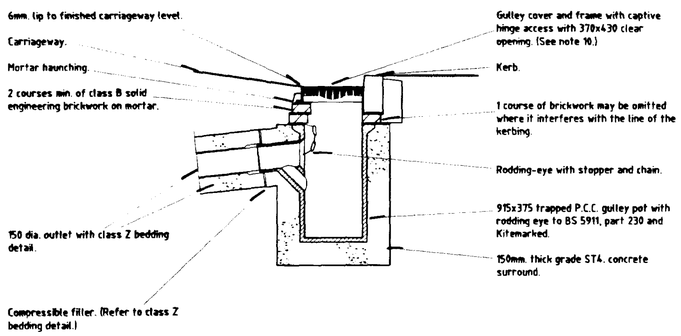
Diam. of Largest Pipe in Manhole.	Chamber Section Int. Diam. (mm.)
Less than 375mm.	1200 (1050 when depth to soffit between 1350 to 1500).
375 to 450	1350
500 to 700	1500
750 to 900	1800

TYPICAL MANHOLE DETAIL.
DEPTH to SOFFIT of PIPE 1450 to 3000.

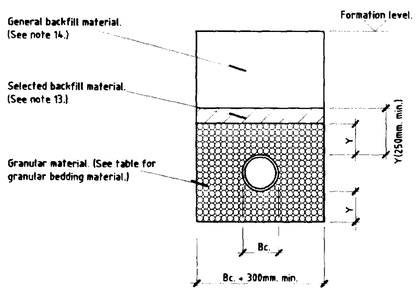
Nominal size. (mm.)	Effective length. (mm.)
150 to 600	600
675 to 800	1000
825 and above	1250

SHORT and ROCKER PIPE LENGTH TABLE.

SHDC
Planning & Development
29 JAN 2002
Ref



TYPICAL ESTATE ROAD GULLEY DETAIL.

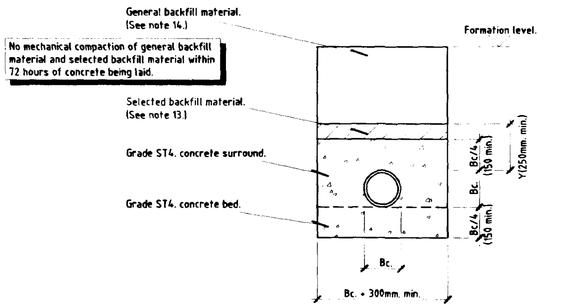


CLASS S DETAIL.
RIGID PIPE TRENCH BEDDING DETAIL.

NOTE....

A) Bc. = Outside diameter of pipe barrel.
B) Y =

For uniform soils
Sleeve jointed pipes, min. 50mm. or 1/ 6Bc, whichever is the greater. Socketed pipe, min. 100mm. or 1 /6Bc, whichever is the greater under the barrels and not less than 50mm. under sockets.
For rock or mixed soils containing rock bands, boulders, stones or other irregular hard spots.
Sleeve jointed pipes, min. 150mm. or 1 /4Bc, whichever is the greater.
Socketed pipe, min. 200mm. or 1 /4Bc, whichever is the greater under barrels and not less than 150mm. under sockets.



CLASS Z DETAIL. (See note 11 and 12.)

Nominal pipe dia. (mm.)	Thickness of Compressible Filler. (mm.)
Less than 450	18
450 to 1200	36
Greater than 1200	54

COMPRESSIBLE FILLER TABLE.
(Bitumen impregnated insulating board to BS 1142 : Part 3.)

Nominal pipe dia. (mm)	Single sized (mm)	Graded (mm)
150	10 or 14	14 to 5
200 to 300	10, 14 or 20	14 to 5 or 20 to 5
375 to 525	14 or 20	14 to 5 or 20 to 5
Greater than 525	14, 20 or 40	14 to 5, 20 to 5 or 40 to 5

TABLE GRANULAR BEDDING MATERIAL.
(All aggregates to Table 4 of BS.882 : 1983.)

Notes

do not scale off this drawing.

1. All drainage works shall be carried out in accordance with The Water Services Association "Sewers for Adoption" - 4th. Edition and Adopting Water Authority/Sewage Agency Requirements and Specifications.
2. Position, size and depth of all existing sewers and services shall be established prior to commencing on site.
3. The contractor shall allow for the protection, temporary and permanent support and temporary and permanent diversion works as necessary to all existing services.
4. The contractor shall allow for all traffic management in connection with road and sewer works.
5. The contractor shall allow for keeping sewer trenches and excavations as dry as is practicable by pumping from temporary sumps and dewatering as appropriate. The point and method of discharge to be agreed with the Drainage Authority.
6. Insitu precast concrete units shall be manufactured with Sulphate resisting Cement to BS 4027, unless agreed otherwise with Peter Moss and Associates.
7. Precast concrete products shall comply with the relevant provisions of BS 5911 and be Kitemarked. Concrete pipes to be class 'M' u.n.o.
8. Vitrified clay pipes and fittings shall comply with the relevant provisions of BS EN 295 and be Kitemarked. All pipes shall be extra strength or equivalent BS EN 295 pipe crushing strength.
9. Manhole covers and frames shall comply with the relevant provisions of BS EN 124 have a minimum 600x600 clear openings with 150 dp. frames u.n.o.
   Manhole covers and frames to be of a non-rocking design with cushion inserts and Kitemarked. Load class D400 in vehicular trafficked areas and load class B125 in footways and pedestrain areas.
10. Gulley grates and frames shall comply with the relevant provisions of BS EN 124 and be of a non-rocking design with captive hinge access and be Kitemarked. Load class D400 for roads regularly carrying fast moving heavy vehicles. Class C250 to be used in lesser trafficked areas eg. Estate Roads, Cul-De-Sacs, Residential car parking areas, etc.
11. Class Z bedding detail shall be provided where cover to pipe barrel is less than 1.2m. in vehicular trafficked areas and 0.9m. elsewhere, to all road gulley connections and within areas of deep rooting vegitation.
12. Where class Z trench bedding detail is used, the concrete bed and surround shall be discontinued at each pipe joint over the full cross-section by means of a shaped compressible filler. (See table.)
13. Selected backfill material shall consist of uniform material free from stones larger than 40mm. clay lumps larger than 75mm. tree roots, organic matter and frozen soil. Selected backfill material shall be placed in layers not exceeding 225mm. Each layer compacted to form a stable trench backfill.
14. General backfill material to be free from stones larger than 40mm. General backfill is to be placed in layers not exceeding 150mm. thickness and each layer compacted by hand. No mechanical compaction of fill shall be permitted within 300mm. above the crown/barrel of the pipe.
15. Backfilling and reinstatement to trenches in public highways shall be in strict accordance with the requirements and specifications of the Adopting Authority, or in the absence of such in accordance with the requirements of 'The Street Works Regulations 1992' and relevant provisions of H.A.U.C. 'Specification for the reinstatement of openings in highways' June 1992, both under Section 71 of the New Roads and Street Works act 1991.
16. Contractor to take measures to protect his operatives with respect to the presence of gas in sewer trenches and manholes through the use of gas monitoring equipment and breathing apparatus as required.
17. Contractor to apply for sewer permits and road opening permits as necessary from the appropriate authorities, prior to commencing works.
18. This drawing shall be read in conjunction with Peter Moss and Associates drawing no. 1074/04 and all other relevant drawings.

ref.	revision.	date.

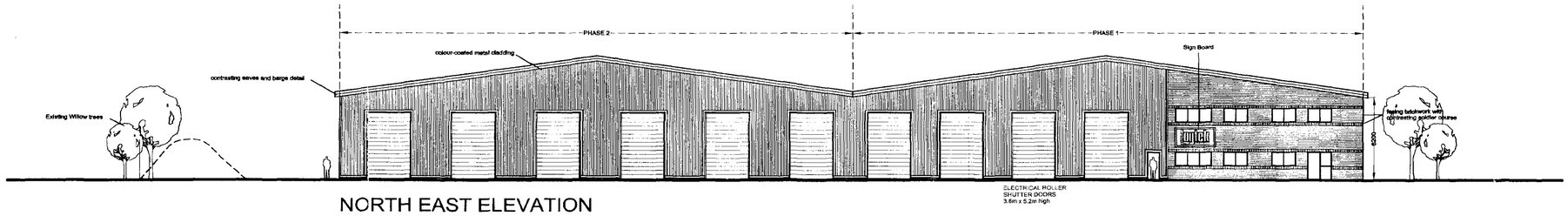
title.
NEW STORAGE FACILITY
ENTERPRISE WAY
ENTERPRISE PARK
SPALDING.
FOR LOGTEK LTD.
TYPICAL DRAINAGE DETAILS.

client.
LINDUM CONSTRUCTION
LINDUM HOUSE
LINDUM BUSINESS PARK
STATION ROAD
NORTH HYKEHAM
LINCOLN.

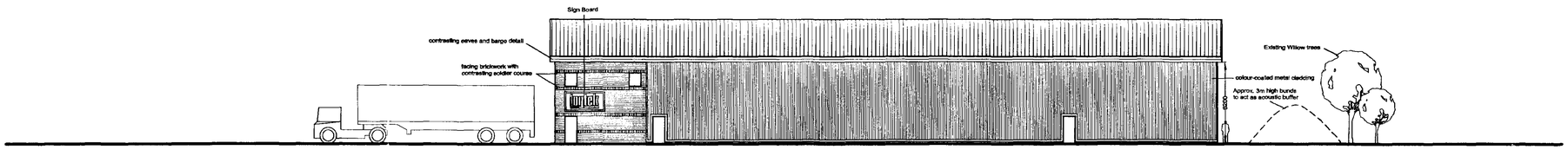
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scale. 1 : 20.
drn. C..S..
chd.

Peter Moss and Associates
18 - 22 Micklegate
Pontefract
West Yorkshire
WF8 1DG
Tel: (01977) 797041
Fax: (01977) 600342.

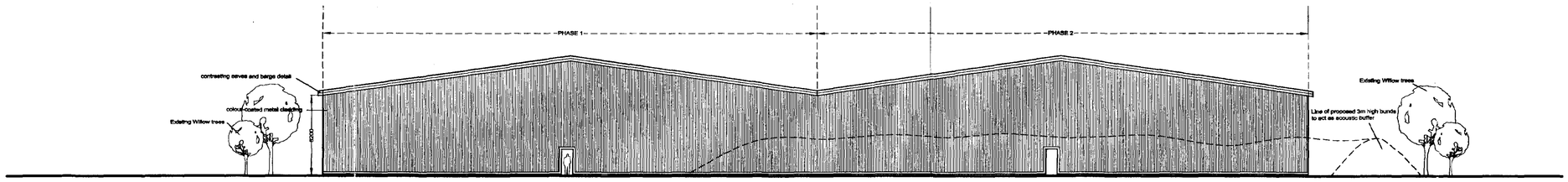
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rev.



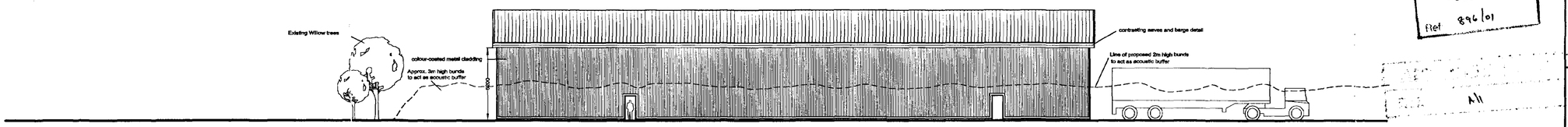
NORTH EAST ELEVATION



NORTH WEST ELEVATION



SOUTH WEST ELEVATION



SOUTH EAST ELEVATION

SOUTH HOLLAND DC
HOUSING & PLANNING
- 5 OCT 2001
Ref 896/01

DETERMINED
PLAN

LINDUM GROUP

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REVISIONS

REV A : 16/07/01 : Amendments to office layout as requested the client.
REV B : 02/10/01 : Elevations altered to suit new layout and planning requirements.

Logtek

LINDUM

LINDUM CONSTRUCTION
Lindum House, Lindum Business Park, Station Road, North Hykeham, Lincoln LN6 3QX
Telephone: (01522) 500300 Fax: (01522) 852221

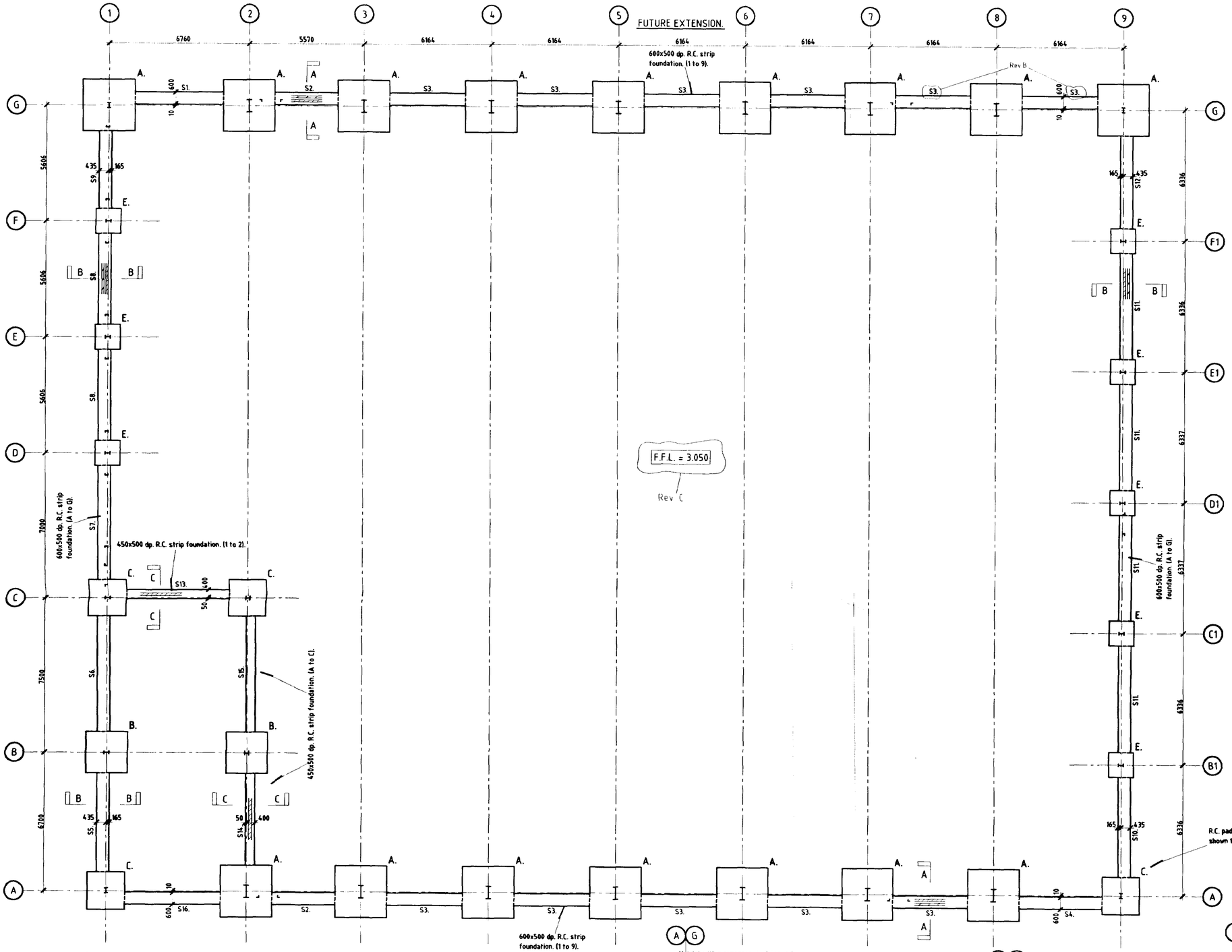
client
LOGTEK LIMITED

project
NEW STORAGE FACILITY
ENTERPRISE WAY,
ENTERPRISE PARK, PINCHBECK
SPALDING

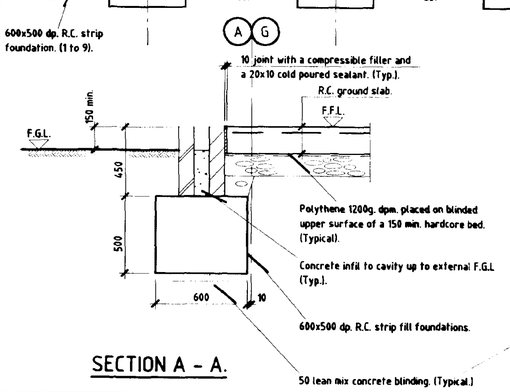
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PHASE 1 & 2 ELEVATIONS

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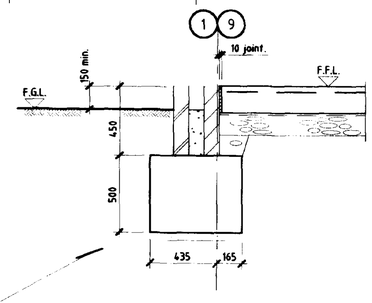
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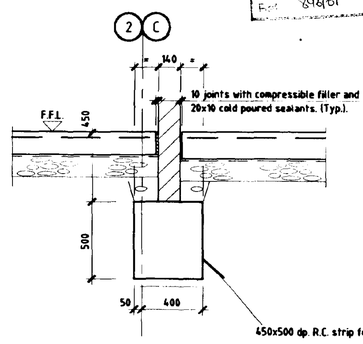
PLAN ON FOUNDATIONS.



SECTION A - A.



SECTION B - B.



SECTION C - C.

AMENDED PLAN
Ref. H2

SPDC
Planning & Development
- 8 MAR 2002
Ref. 2514/01

Notes

do not scale off this drawing.

1. Concrete is to be a design mix which is to achieve a minimum 28 day works cube crushing strength of 35 N.sq.mm. using 20 maximum size aggregates. A minimum Ordinary Portland Cement content of 300 kg.cu.m. and a maximum free water-cement ratio of 0.60 is to be employed.
2. R.C. pad & strip foundations are to be sited in the underlying naturally occuring sands which are to have been subject to vibro-compaction treatment works in order to achieve a minimum nett permissible ground bearing pressure of 100kN.m.sq. The naturally occuring sands to the underside of the internal reinforced concrete hardstandings are to be subject to vibro-compaction treatment which is to achieve a minimum nett permissible ground bearing pressure of 37.50 kN.sq.m. (The specialist vibro-compaction contractor is to submit his detailed proposals to Peter Moss and associates for possible comment prior to the treatment works being commenced on site).
3. Foundations are to be cast a minimum of 7 days prior to steelwork erection.
4. All steelwork below ground level is to be encased in 100mm. concrete.
5. For details of holding down bolts which are to be cast into foundations reference must be made to the structural steelwork sub-contractors drawings (Lillman Engineering Ltd.).
6. Employ 50mm. 1:12 lean mix concrete blinding to the underside of the foundations.
7. R.C. pad foundations are to be formed symmetrically about grid lines u.n.o.
8. For reinforced concrete details to foundations refer to drg. no. 1074/02 + 08.
9. R.C. strip foundation references shown typically thus.....S1.

REINFORCED CONCRETE BASE SCHEDULE:

Ref.	Length. mm.	Width. mm.	Depth. mm.	Top level.	No. of.
A.	2500	2500	500	2.600	16
B.	2000	2000	500	2.600	2
C.	1800	1800	500	2.600	4
E.	1200	1200	500	2.600	8

Rev C

ref.	revision.	date.
C.	F.F.L. revised at clients request.	07.03.02.
B.	References to strip foundations added.	26.02.02.
A.	Setting out to strip foundations to gridlines 1, 9, A & G revised.	22.02.02.

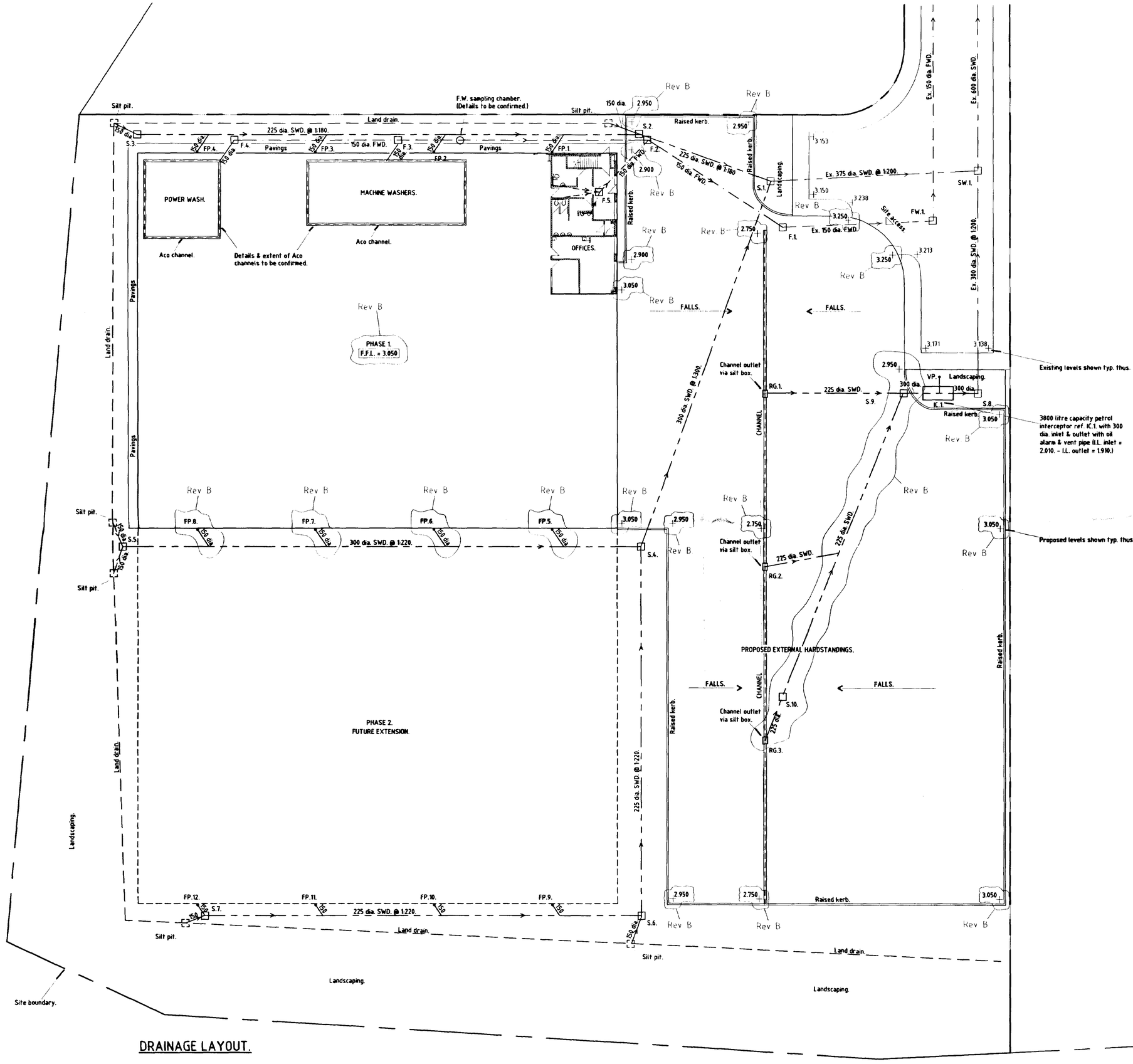
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NEW STORAGE FACILITY
LOGTEK LTD.
ENTERPRISE PARK
PINCHBECK
SPALDING.
G.A. DETAILS to FOUNDATIONS.

client.
LINDUM CONSTRUCTION
LINDUM HOUSE
LINDUM BUSINESS PARK
STATION ROAD
NORTH HYKEHAM
LINCOLN.

date. February 2002.
scale. 1 : 100, 20.
drn. C.S.
chd.

Peter Moss and Associates
18 - 22 Micklegate
Pontefract
West Yorkshire
WF8 1QG
Tel: (01977) 797841
Fax: (01977) 600342.

drg. no. 1074/01.
rev. C



Notes

do not scale off this drawing.

1. For general drainage details refer to drawing no. 1074/05.
2. Rodding eye facilities are to be provided 600mm. above ground/slab level to all fall pipes.
3. Contractor must check and advise Peter Moss and Associates of the invert Levels which are present within the existing manholes ref. FW.1. + SW.1. and at the existing drains at F.1. + S.1. + S.8. positions prior to any of the drainage works being commenced.
4. NOTE.... Manholes ref. S.6. and S.7. and the drain runs between S.4. to S.6. and S.6. to S.7. are Phase 2 works and are not to be installed as elements of this contract.

Rev B

SURFACE WATER MANHOLE SCHEDULE.				
Ref.	Cover lvl.	Invert lvl.	Size. (dia.)	Cover.
S.W.1.	3.360	1.475	Existing.	
S.1.	3.000	1.593	1200 P.C.C.	600 sq. H.D.
S.2.	2.925	2.150	1050 P.C.C.	600 sq. H.D.
S.3.	2.900	2.450	1050 P.C.C.	600 sq. H.D.
S.4.	3.000	2.080	1200 P.C.C.	600 sq. H.D.
S.5.	2.900	2.325	1050 P.C.C.	600 sq. H.D.
S.6.	2.900	2.327	1050 P.C.C.	600 sq. H.D.
S.7.	2.900	2.525	1050 P.C.C.	600 sq. H.D.
S.8.	3.100	1.870	1050 P.C.C.	600 sq. H.D.
S.9.	2.900	2.020	1050 P.C.C.	600 sq. H.D.
S.10.	2.800	2.300	1050 P.C.C.	600 sq. H.D.

Rev B

FOUL WATER MANHOLE SCHEDULE.				
Ref.	Cover lvl.	Invert lvl.	Size.	Cover.
FW.1.	3.350	0.873	Existing.	
F.1.	2.800	0.973	1200 P.C.C.	600 sq. H.D.
F.2.	2.925	1.500	1050 P.C.C.	600 sq. H.D.
F.3.	2.900	2.000	1050 P.C.C.	600 sq. H.D.
F.4.	2.900	2.400	1050 P.C.C.	600 sq. H.D.
F.5.	3.050	2.400	1050 P.C.C.	600 sq. H.D. double seal

Rev B

AMENDED PLAN
Ref. A2

SKDC
Planning & Development
- 8 MAR 2002
Ref S96/01

ref.	revision.	date.
B.	F.F.L. revised at clients request. Levels revised accordingley	07.03.02.
A.	I.L's. revised to S1. & F1. Yard levels added. Issued for construction.	18.02.02.

title.
NEW STORAGE FACILITY
ENTERPRISE WAY
ENTERPRISE PARK
SPALDING.
FOR LOGTEK LTD.
DRAINAGE LAYOUT.

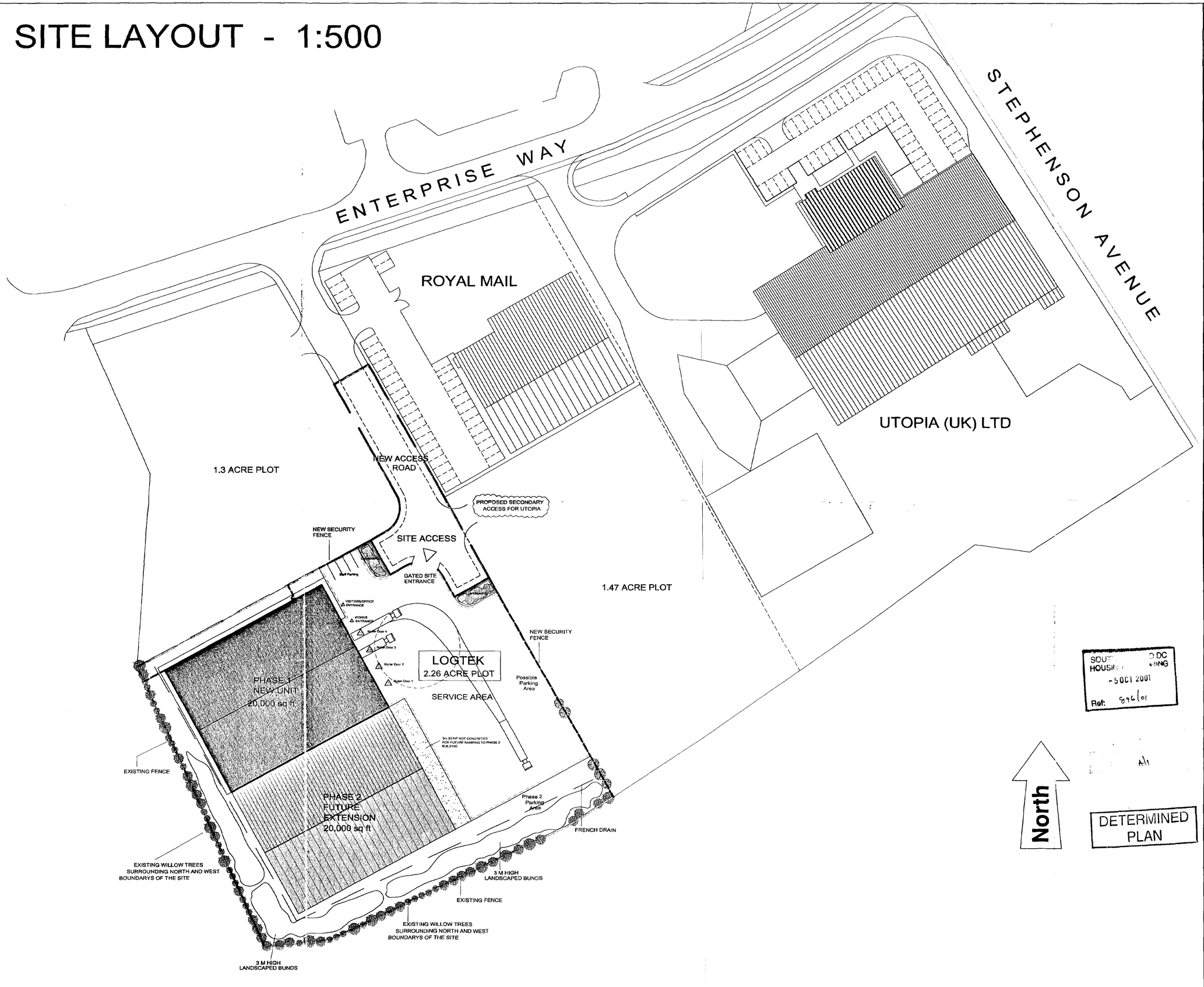
client.
LINDUM CONSTRUCTION
LINDUM HOUSE
LINDUM BUSINESS PARK
STATION ROAD
NORTH HYKEHAM
LINCOLN.

date. DECEMBER 2001.
scale. 1 : 200.
drn. D.G.I.
chd.

Peter Moss and Associates
18 - 22 Micklegate
Pontefract
West Yorkshire
WF8 1QG
Tel: (01977) 797041
Fax: (01977) 600342.

drg. no. 1074/04.
rev. B

SITE LAYOUT - 1:500



SOUTH HOLLAND DC PLANNING
-5 OCT 2001
Ref: S/96/01

DETERMINED PLAN

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Logtek

REV A : 02/10/01 : Building position altered to suit planning requirements.

LINDUM

LINDUM CONSTRUCTION
Lindum House, Lindum Business Park, Station Road, North Hykeham, Lincoln LN6 3QX
Telephone: (01522) 500300 Fax: (01522) 852221

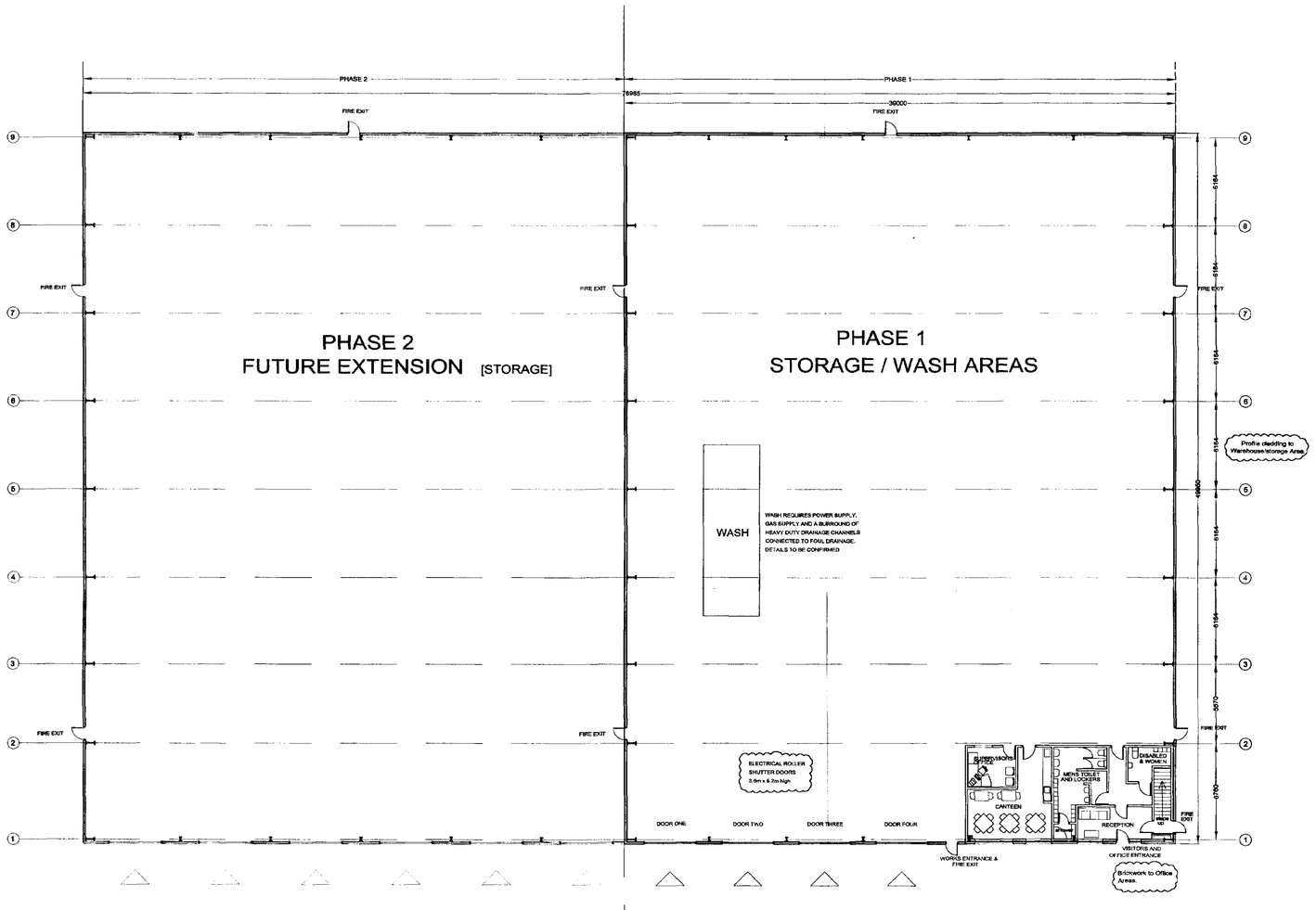
client
LOGTEK LIMITED

project
NEW STORAGE FACILITY
ENTERPRISE WAY,
ENTERPRISE PARK, PINCHBECK
SPALDING

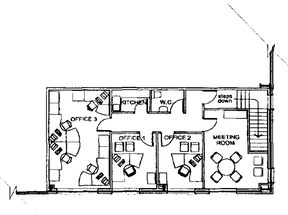
drawing
SITE LAYOUT

date	scale
JUNE 2001	1:500

drawing no.	revision
LD01-022 / 02	A



GROUND FLOOR PLAN



FIRST FLOOR PLAN

SOUTH HOLLAND DC
HOUSING & PLANNING
- 5 OCT 2001
Ref: S96/01

Ref. All

DETERMINED PLAN

LINDUM GROUP

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USE FIGURED DIMENSIONS ONLY

REVISIONS

REV A : 16/07/01 : Amendments to office layout as requested the client.

REV B : 02/10/01 : Building footprint handed to suit new layout and planning requirements.

Logtek

LINDUM

LINDUM CONSTRUCTION
Lindum House, Lindum Business Park, Station Road, North Hykeham, Lincoln LN6 3QX

Telephone: (01522) 500300 Fax: (01522) 852221

client

LOGTEK LIMITED

project

NEW STORAGE FACILITY
ENTERPRISE WAY,
ENTERPRISE PARK, PINCHBECK
SPALDING

drawing

PHASE 1 & 2 PLANS

date	scale
JULY 2001	1:200

drawing no.	revision
LD01-022 / 03	B