

Our Ref: DHM/RK

31st March 1992

Huntingdonshire District Council
Pathfinder House
St Mary's Street
Huntingdon
Cambs PE18 6TN

For the attention of Mr J Allan, Environmental Health Department

Dear Mr Allan,

Re: Environmental Protection Act 1990 Part 1
Cement Process, Meadow Lane, St. Ives

Further to your visit to the above site we have now completed the Application for authorisation to carry out prescribed process and our completed form together with Layout Drawings and Site Location Plans are enclosed.

Our initial application fee of £800 is also enclosed and we would confirm that it is our intention to place advertisements in the "Hunts Herald and Post" and "The Town Crier" these adverts we are to place to appear within 21 days of your formal receipt of our application.

We have attached a copy of the proposed advert to be placed in the paper which we hope is in order, thank you for your assistance in this matter.

Yours sincerely,



D.H. Morris
Southern Production Director

**ADVERTISEMENT TO BE PLACED IN "THE HUNTS HERALD AND POST"
AND "THE TOWN CRIER"**

**ENVIRONMENTAL PROTECTION ACT
1990 PART 1
APPLICATION FOR AUTHORISATION**

Marshalls Mono Limited has applied for authorisation from Huntingdon District Council to operate a prescribed cement process, namely blending, and associated processes in the manufacture of concrete products at :-

Marshalls Mono Limited
Meadow Lane
St Ives
Cambs
PE17 4LG

A copy of the application is available for public inspection free of charge at:

Pathfinder House
St. Mary's Street
Huntingdon
Cambs
PE18 6TN

Written representation regarding this application may be sent to Huntingdonshire District Council at the above address within 28 days of the date of this advertisement.

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ENVIRONMENTAL PROTECTION ACT 1990, Part 1

The Environmental Protection (Prescribed Processes and Substances) Regulations 1991
The Environmental Protection (Applications, Appeals and Registers) Regulations 1991

See Notes on pages 3 and
4 before completing this
form.

**APPLICATION FOR AUTHORISATION to carry out prescribed process
under section 6 of the Environmental Protection Act 1990**

To⁽¹⁾ **HUNTINGDON DISTRICT** Council

1 Name and address of applicant ⁽²⁾ (in the case of a registered Company, name, number and registered office) **Marshall's Mono Limited, Registered No: 509579 London Registered Office:
Hall Ings, Southowram, Halifax HX3 9TW**

Tel.No. 0422 363441

2 Name and address of premises where process is or will be carried on (not applicable to mobile processes)

**Marshall's Mono Limited
Meadow Lane, St. Ives,
Cambs PE17 4LG**

Tel.No. 0480 61639

3 In the case of mobile plant, name and address of the principal place of business

N/A

Tel.No.

Address for correspondence relating to the application

**Marshall's Mono Limited
Meadow Lane, St. Ives
Cambs PE17 4LG**

Contact name **David Sefton**

Tel.No. 0480 61639

5 List of maps or plans enclosed with the application showing the location of the premises where the process is or will be carried on.

TITLE

Reference No.

..... 1) Layout of concrete works showing locations of possible
dust emission.

4239

..... 2) Ordinance survey site location

Where the process is or will be carried on on only part of the premises whose address is given at 2 above, describe which part of the premises and list the plan(s) which identify(ies) this part or these parts.

The process is being carried out on the two production units arrowed in red on the ordinance survey map supplied.

8 Describe the prescribed process ⁽³⁾ (use a continuation sheet if necessary)

Concrete products are manufactured using a mixture of bought in materials consisting of limestone chipping, granite chippings, gravel, limestone dust, sand cement and pulverized fuel ash. The varying components are mixed in totally enclosed pan mixers with water to make concrete. After mixing the concrete goes to make paving flags and kerb stones, the finished product is left under cover to cure sufficiently to be banded into packs and placed in the storage yard to finish curing and await despatch.

(SEE ATTACHED SHEET)

7 When was the plant first installed? 1982 Although we utilised some of the existing plant that was installed by previous owners. ARC Concrete.
Please also give the details and dates of any major modifications or improvements which have been carried out.

An additional new production unit was installed during the summer of 1989

8 List the prescribed substances (and any other substances which might cause harm) used in connection with or which might be released into the air resulting from the prescribed process.(4)

Particulate matter

9 Describe the techniques to be used for preventing releases into the air of substances listed above, for reducing such substances to a minimum and for rendering harmless any such substances that are released.(5) (use a continuation sheet if necessary and attach drawings of plant and equipment, where appropriate)

Reverse jet enclosed filtration pressure relief valves and high level alarm systems are fitted to all cement and PFA silos.

Containment is used in press shed Item B on drawing 4239

Containment is used in press shed item E on drawing 4239

All external conveyors are covered.

Aggregates likely to become airborne are housed in covered storage item C on drawing 4239.

10 Give details of the source, nature and amount of current and/or anticipated emissions to air from the process. (use a continuation sheet if necessary)

The only source of emission to air from this process would be when the wheeled loading shovel was tipping limestone dust taken from the covered aggregate store marked C on drawing 4239 into the tipping hoppers as shown on drawing 4239.

11 Give the assessment of the likely environmental consequences of the emissions to air. (use a continuation sheet if necessary)

Any possible problems will be localised because of the situation of this works, the effect on the environment will be minimal. There has been only one serious emission to air in the recent past which occurred on the cement silo supplying the old production unit, the cause was a combination of taker driver error and the fact that there was not a high level probe and alarm system fitted at that time, as a result of the emission we have since fitted a high level probe and alarm system, both audible and flashing beacon.

12 What monitoring is or will be carried out of emissions to air?

Visual monitoring will be carried out at relevant times and if emission occurs remedial work will be carried out and documented.

13 What monitoring will be carried out of the environmental consequences of emissions to air?

We feel that because the materials that we currently use, that might have an environmental consequence i.e. cement PFA, are housed in totally enclosed systems incorporating reverse jet filtration, high level probe and alarm, plus visual monitoring. The possibility on an emission to air is kept to an absolute minimum.

14 How will you monitor the techniques described in the answer to question 9?

The filtration systems are monitored visually on a weekly basis, the high level alarm systems are checked and tested by our on site electrician on a weekly basis. And records will be kept of the dates the checks took place and of the necessary repair or replacement of defective parts.

15 State how you will ensure that the objectives listed in section 7(2) of the Environmental Protection Act 1990 will be achieved and how the condition implied by section 7(4) of the Act will be complied with.(6)

As stated in 13 above with the in built safety systems currently in use, together with visual monitoring, training, good maintenance, necessary spares stocked, good documentation ie. records and logs kept up to date and doing whatever is deemed necessary, we feel that we can meet the objectives required.

The company intends to comply fully with all the relevant conditions of the Environmental Protection Act 1990 Part 1.

16 If you have any proposals for improvements which might prevent or reduce emissions, please give details. (use a continuation sheet if necessary)

The systems in operation at this time, we feel are adequate to meet the objectives. However, if it is felt after review not to be the case then the company will do whatever is necessary within BATNEEC to comply.

17 Give any other additional information which you would like to be taken into account by the local authority in considering your application.

The company have been operating at this site for a number of years without causing problems to the environment and have installed systems as described to ensure a high standard of control and maintenance which will continue to be the case.

It is intended that the old plant will be replaced with new plant when the economic situation improves, this will involve removal of all existing old buildings and erecting new buildings as the new plant. Areas of the yard will be repaired and new covered aggregate storage bins erected giving improved containment of aggregates.

Official guidance on the best available techniques not entailing excessive cost is published by the Department of the Environment in the process guidance notes for specific industries, copies of which are available from HMSO or can be ordered from certain bookshops. YOU ARE ADVISED TO CONSULT THE PROCESS GUIDANCE NOTE FOR YOUR INDUSTRY BEFORE COMPLETING THIS FORM. YOU MIGHT ALSO FIND IT USEFUL TO READ THE GENERAL GUIDANCE NOTE GG3.(7)

If you require any further information or assistance in completing this form, please contact your local Council at the address shown below.

Please complete the final section of this form on page 4 overleaf.

I enclose the fee of £ 800 -- 00 (8).

Cheques should be made payable to: HUNTINGDON DISTRICT COUNCIL

I HEREBY CERTIFY that all the information contained in this application is correct to the best of my knowledge and belief [and that I am authorised to sign on behalf of the Company].

Signature J. A. Ginn

Official title SOUTHERN PRODUCTION DIRECTOR

Date 30TH MARCH 1992

Please complete and return this form together with FOUR copies of each of the plans listed in the reply to question 5 and the required fee to:

Tel.No.

NOTES

- 1 This is the local authority in whose area the prescribed process will be carried on, or in the case of mobile plant, the local authority in whose area the applicant has his principal place of business.
- 2 Please state the person/Company who is operating or will operate the process, not an agent who may be completing the application on the operator's behalf.
- 3 A list of prescribed processes for local authority control is given in Appendix A, which accompanies this form. Further advice can be obtained if necessary from the local authority.
- 4 A list of prescribed substances for release into the air is given in Appendix B, which accompanies this form. "Harm" includes offence to the senses or harm to property.
- 5 Please list fully all pollution control measures for all stages of the process, from the receipt of raw materials to the despatch of wastes and finished products, including, for example, the height and location of any stacks or vents; the abatement technology; process control and operational data; arrangements for maintenance; the extent of supervision; the relevant qualifications and experience of the workforce; staff training; and contingency plans for breakdowns and emergencies.

All calculations should be shown, particularly for the chimney height(s). Justification for the selection of a particular abatement option should be given.
- 6 Section 7(2) and 7(4) of the Environmental Protection Act 1990 requires every operator of a prescribed process to use the best available techniques not entailing excessive cost for -
 - (i) preventing the release of prescribed substances, or where that is not practicable, for reducing the release of such substances to a minimum and rendering them harmless; and
 - (ii) rendering harmless any other substances which might be released.
- 7 Much of the information contained in the application form will be included in a register which the local authority is required to keep for public examination in accordance with section 20 of the Environmental Protection Act 1990 and the Environmental Protection (Applications, Appeals and Registers) Regulations 1991. Sections 21 and 22 provide for certain information (affecting national security, or commercial confidentiality) to be excluded from the register. Such information should be clearly identified in this application form.
- 8 £800 in the case of initial applications.
£530 in the case of applications for a substantial change.
£530 in the case of processes transferred from previous HMIP control.
£100 for small waste oil burners.

TECHNICAL DETAILS

All the different types of aggregates are brought in by tipper lorries through the back gate marked (1) on drawing 4239 the haulage drivers report to the loading shovel driver who checks that the material is correct, then directs the tipper driver to the correct covered storage bay marked (C) on drawing 4239 where the materials are offloaded.

A similar procedure is carried out with this intake of the cement and PFA (Pulverised Fuel Ash) which is delivered in sealed bulk tankers, the driver reports to the works office marked (36) on drawing 4239 where a supervisor will check the delivery note to ensure the correct material is being delivered, the supervisor then directs the driver to the correct silo marked 51 to 54 on drawing 4239 and will then accompany the driver to the silo and observe that he connects up to the correct silo, that he blows at the correct pressure and that there are no emissions to air that could be caused by slits or holes in the discharge pipe or by a poorly sealing coupling ring. If the silo will not accommodate the full load, the supervisor will indicate to the driver approximately the amount the silo will take so that he will be most alert when the alarm system operates.

The aggregates are picked up by a wheeled shovel (Volo L70) and loaded into tipping hoppers as shown on drawing 4239 and transported by covered belt conveyors marked (2) and (3) on drawing 4239 into aggregate storage bunkers marked (d) and (f) on drawing 4239.

The varying aggregates are weighed up into batches underneath the aggregate bunkers then transported via covered belt feed conveyors marked (4), (5) and (6) on 4239 into holding hoppers situated above the totally enclosed pan mixers marked (7), (8), (9), (10) and (11) on 4239 inside production unit (B) and (E) on 4239.

The cement and PFA are transported via totally enclosed screw conveyors marked (12), (13), (14), (15), (16), (17), (18), and (19) on 4239 into totally enclosed weigh hoppers marked (20), (21), (22), (23) and (24) on 4239.

The batched aggregates along with the cement and PFA are discharged into the mixers and water is added to make wet concrete, the concrete is then dispersed into hydraulic presses marked (25), (26), (27), (28) and (29) on 4239 and pressed into flags and kerb stones. The product is stored inside the building in the curing areas marked (30), (31) in the old plant (B) and (32) in the new plant (E) on drawing 4239.

Once the product is cured enough to handle it is banded into packs and taken outside the press sheds by roller conveyors, the packs are then picked up at the unloading points marked (33), (34) on the old plant and (35) on the new plant on 4239, the packs are taken by diesel fork trucks with a grab attachment and stacked on the stock yards to cure further and await despatch.

OTHER HANDLING OPERATIONS

Some of the concrete flags are sent to a secondary process marked (A) on 4239, where they are sawn into edgings using a water-fed three bladed saw. Therefore, no dust is created, reject materials are taken to a trade waste collection area, as shown on drawing 4239, from where they are loaded onto tipper lorries and taken to an approved waste tip.

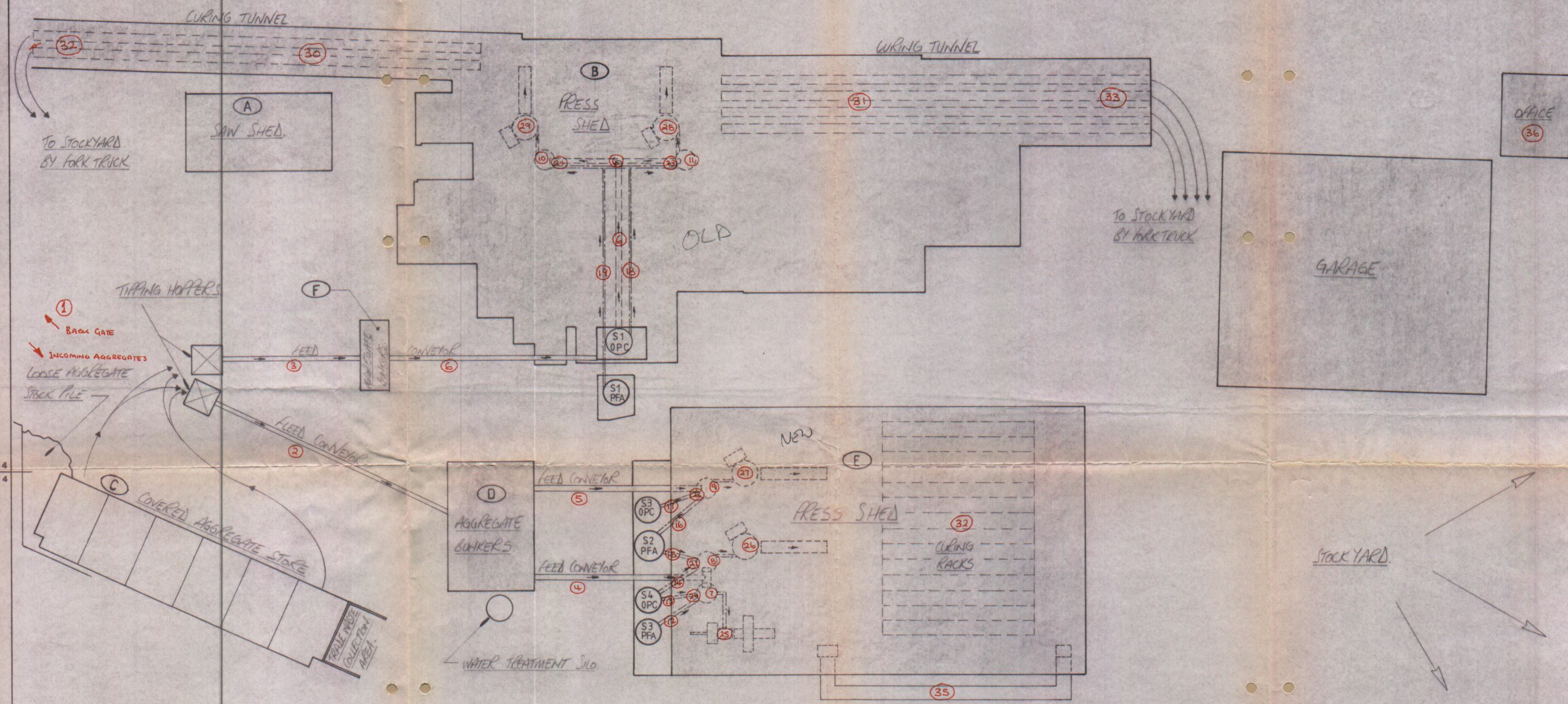
Continued/.....

OTHER INFORMATION

The new press shed (E) on 4239 is a modern, up to date, production unit incorporating the latest state of the art control methods, there are plans on paper to replace the old press shed with a similar scheme in the future, indeed if it were not for the severity of the recession the said scheme would now be in operation, as I am sure you will find if you care to check with your planning department that planning permission has been approved for the scheme.

Also, included in the new scheme is the resurfacing in block paving the whole area to the rear of the silo's and the whole stacking area to the west to the back gates.

ITEM	QUANTITY	DESCRIPTION	LENGTH MM	SHAPE	QTY	P/FILE	ST/FILE
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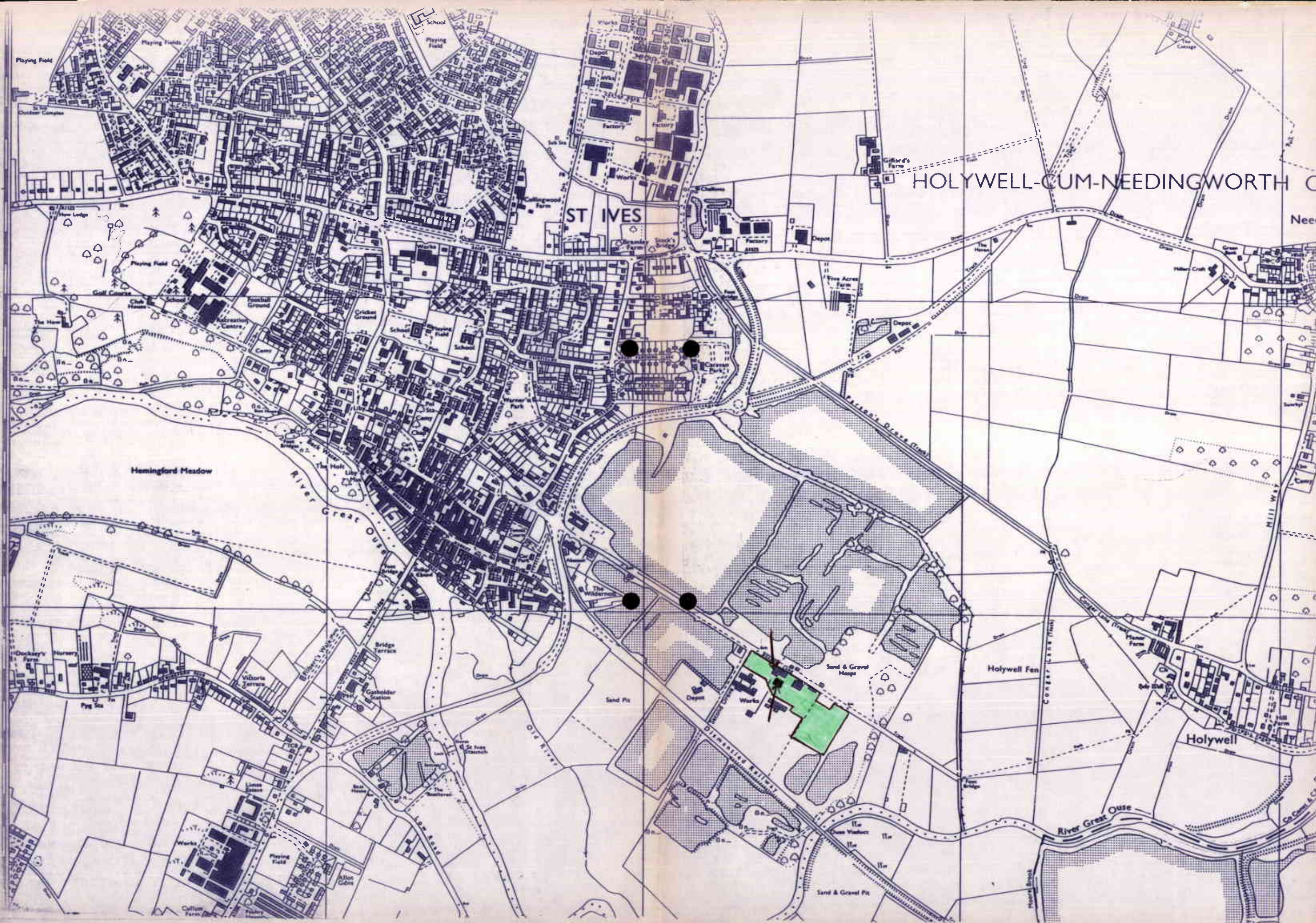
BUILDINGS

- (A) SAW SHED - OVERALL HEIGHT = 4.6 METRES
- (B) PRESS SHED - OVERALL HEIGHT = 9.3 METRES
- (C) COVERED AGGREGATE STOCK - OVERALL HEIGHT = 6.0 METRES
- (D) AGGREGATE BUNKERS - OVERALL HEIGHT = 15.9 METRES
- (E) PRESS SHED - OVERALL HEIGHT = 10.0 METRES
- (F) AGGREGATE BUNKERS - OVERALL HEIGHT = 12.0 METRES

STORAGE SILOS WITH ENCLOSED FILTRATION

- S1 OPC 15.1 METRES HIGH - OVERALL HEIGHT OF FILTER = 17.4 METRES
- S1 PFA 10.0 METRES HIGH - OVERALL HEIGHT OF FILTER = 12.1 METRES
- S2 PFA 14.5 METRES HIGH - OVERALL HEIGHT OF FILTER = 16.7 METRES
- S3 OPC 14.5 METRES HIGH - OVERALL HEIGHT OF FILTER = 16.7 METRES
- S3 PFA 14.5 METRES HIGH - OVERALL HEIGHT OF FILTER = 16.7 METRES
- S4 OPC 14.5 METRES HIGH - OVERALL HEIGHT OF FILTER = 16.7 METRES

REV.	DATE	DESCRIPTION
Marshalls mono		
TITLE LAYOUT OF CONCRETE WORKS SHOWING LOCATIONS OF POSSIBLE DUST EMISSIONS		
WORKS SE IVES		DATE ISSUED
DRAWN BY L. ASHALL	DATE 29-10-91	SCALE 1:200
MARSHALLS MONO LTD. SOUTHWORAM HALIFAX HX3 9SY W. YORKS. TEL. 0422 366666 FAX. 0422 348077 TELEX. 517087		
DRG. No. 4239		REV.



HOLYWELL-CUM-NEEDINGWORTH C

ST IVES

Hemingford Meadow

Holywell Fen

Holywell

River Great Ouse

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Continued/.....

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