

MEMORANDUM

25

FROM Area Planning Branch, Glebe House, Fenton.

Our Ref. AL/BL.

TO See Distribution List.

Your Ref. \_\_\_\_\_

Subject Chatterley Whitfield Colliery  
Coal Preparation Scheme.

Date 30th March, 1961.

Please find enclosed one copy of the above scheme. A copy has already been forwarded to Messrs. H.J.Widdowson, W.Wilcox, R.W.Scurfield, W.T.Archer, S.Calvert, D.M.Fletcher, R.R.Job, R.R.Gower, and six copies to Division.

*A. Keenig.*

No.1 Group Planning Engineer.

Copies to:

Messrs. P.Smallman, W. Mold, W.Hibbert, A.Brockley, G.E.Hewitt,  
J.H.Masters, R.Humphreys, R.Chadwick, R.J.Rix, W.Matthews.

RECEIVED  
- 5 APR 1961  
MANAGER'S OFFICE  
CHATTERLEY-WHITFIELD COLLIERY

Encl.

AREA PLANNING BRANCH  
GLEBE HOUSE  
FENTON  
STOKE-ON-TRENT.  
STAFFS.  
MARCH, 1961..

5  
cw/15/26

FROM: Area Planning Branch, Glebe House, Fenton.

TO: See Distribution List.

12th June 1961.

Subject: Chatterley Whitfield Colliery  
Proposed Coal Preparation Scheme

Due to an amendment of the Divisional Application with regard to the Existing Coal Preparation Plant (Wages), please find enclosed one copy of each of the sheets which required alteration. *- done.*

<u>Appendix XVII.</u>	Existing Conditions - Wages	-	£54,877
	" Totals	-	£76,620
	" Net Proceeds	-	£2,852,066
	Future Output - Existing Plant Wages	-	£58,109
	" Totals	-	£80,188
	" Net Proceeds	-	£3,646,575

<u>Appendix P Sheet 1.</u>	B.1. - Wages	-	£65,844
	" " 20%	-	£13,169
	" " Total	-	£79,013
	B.2. - Total Saving	-	£89,170
	D. LESS	-	3/0.2d.
	D. Net Additional Costs	-	2/4.1d.
	E. PROFITABILITY - LESS	-	2/4.1d.
	E. Additional Profitability	-	3/10.8d.
	Yield on Capital Invested	-	7.93%

The above mentioned figures are referred to in various parts of the write-up:- 1) Introduction. 2e) Cost of Scheme.... and 9) Profitability.

*A.L. Fleming.*

No.1 Group Planning Engineer.

Distribution List:

Messrs:- G.E.Hewitt, W.Matthews, J.H.Masters, S.Calvert, D.M.Fletcher, R.I.Rix, R.R.Job, R.R.Gowar, W.C.Colclough, W.T.Archer, P.Smallman, W.Mold, W.Hibbert, A.Brockley, R.Humphreys, R.Chadwick.



CHATTERLEY-WHITFIELD COLLIERY

STAGE II SUBMISSION - COAL PREPARATION, SIDINGS  
AND LANDSALE SCHEME.

The accompanying Stage II submission outlines the expenditure and work necessary to provide a new dense medium coal preparation plant of 750,000 tons per annum capacity together with new sidings and landsale arrangements at Chatterley-Whitfield Colliery.

The submission is valued at £1,377,767, of which £1,363,346 is capital expenditure and £14,421 revenue expenditure.

The whole scheme shows an estimated total manpower saving of 125 shifts per day, as itemised in Section 7 (Manpower) of the text.

Estimated profitability has been shown in two forms:

- 1: Appendix XVII of the application estimates that net profitability resulting solely from the introduction of new coal preparation facilities will be £123,999 per annum. This estimate of profitability has been based upon an output of 750,000 tons per annum, which is the maximum capacity of the proposed new coal preparation plant:
- 2: Appendix 'P' contains an estimate of profitability through the introduction of the whole of the works outlined in this application (coal preparation, sidings and landsale). Based on the 1960 level of output of 590,669 tons and taking interest and depreciation charges into account, profit is estimated to be £115,377 or 3/10.8d. per ton.

Liaison has been maintained with appropriate Departments at Area and Divisional level in the preparation of the details.

The Divisional Board's consideration of the submission is now requested, with a view to approval being received to enable work to commence by 1st January, 1962, for completion by 31st October, 1964.



(H.J. Widdowson),  
AREA GENERAL MANAGER.

29th March, 1961:

NATIONAL COAL BOARD

West Midlands Division,  
No.1 (North Staffs.) Area,  
CHATTERLEY-WHITEFIELD COLLIERY,  
COAL PREPARATION SCHEME.

THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL.

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AREA PLANNING BRANCH:  
21st March, 1961:

NATIONAL COAL BOARD

West-Midlands Division

No.1 (North Staffs.) Area

CHATTERLEY-WHITFIELD COLLIERY

STAGE II SUBMISSION - COAL PREPARATION SCHEME

1): INTRODUCTION

This Stage II submission, which caters for the provision of a new dense medium coal preparation plant, associated landsale and new sidings at Chatterley-Whitfield Colliery, is valued at £1,377,767, of which £1,363,346 is capital expenditure and £14,421 is revenue expenditure (less Plant Pool Equipment valued at £18,743 capital).

Approval of the application is now requested so that arrangements may be made for the necessary orders to be placed with a view to the work being commenced by 1st January, 1962, for completion by 31st October, 1964.

The whole scheme shows an estimated total manpower saving of 125 shifts per day and, after taking interest and depreciation charges and increased proceeds into account, net profit has been estimated at £115,377 or 3/10.8d per ton, based on the same level of output as the actual 1960 result.

In the current amendment of the National Plan, Chatterley-Whitfield Colliery is scheduled to produce an output of 750,000 tons per annum, which is considerably less than the maximum output since Nationalisation which was 951,051 tons in 1947. The proposed capacity of the new coal preparation plant is 750,000 saleable tons per annum, and appendix XVII based on this tonnage indicates that the net increase in proceeds through the provision of a new coal preparation plant alone will be £123,999.

2): PREFACE

a): Location of Colliery : (Plan No.1). Chatterley-Whitfield Colliery lies in the northern part of the North Staffordshire Area and is situated adjacent to the Biddulph Valley Branch Line of British Railways and to the road from Tunstall to Congleton and Manchester. The majority of the existing railborne traffic flows via a private line which connects with the main Manchester-Stoke-London line at Longport. Good road connections are available to all the Potteries towns.

b): Objectives of scheme:

i): To provide preparation facilities to produce grades of controlled quality and of such consistency as to be suitable to the modern trend in marketing requirements. The saleable products would thereby be increased and proceeds improved.

ii): To improve landsale facilities.

iii): To increase surface manpower efficiency.

c): Main reasons for promoting scheme:

i): To replace the present inadequate preparation facilities. These have neither the performance, flexibility nor the capacity to treat the present run-of-mine output or the output scheduled to be produced in the future in a manner which would provide the optimum conditions of realisation of proceeds and satisfaction of market:

ii): To close the present private railway line and tunnel and put all colliery railborne traffic onto the Biddulph Valley Branch Line of British Railways lying immediately adjacent to the colliery:

iii): To close the outlying colliery wharves of Greenhead at Burslem and Brownhills at Tunstall and concentrate all landsale traffic at a new wharf at Chatterley-Whitfield.

d): Main technical features of the scheme:

The proposals include an entirely new coal preparation plant of 750,000 tons per annum capacity, which is the planned output of the Colliery.

The scheme will incorporate the maximum mechanical treatment, hand cleaning being limited to the +8" coal. The 8" - 1/2 m.m. raw coal will be washed by dense medium processes and the 1/2 m.m. - 0 will be treated by froth flotation. An appropriate fraction of the output from the general purpose seams will be sold untreated.

Comprehensive landsale facilities are also included in the proposals to replace the existing method of handling fuel from wagons. Two outlying wharves can then be closed.

New exchange sidings are to be constructed adjacent to the Biddulph Valley Branch Line of British Railways.

e): Cost of scheme and Estimated Return: The estimated cost of the scheme, including contingencies, is £1,377,767, of which £1,363,346 is capital expenditure and £14,421 revenue expenditure. Estimated profitability on completion of the scheme is £115,377 per annum, or 3/10.8d per ton, including depreciation and interest charges and based on the same level of output as in 1960.

3): RESERVES:

The details are shown in appendix IIa of this submission. The colliery take is bounded to the north by the Victoria Colliery barrier; to the east there are no other collieries and the take extends to the seam outcrops (for the assessment of reserves, ordnance datum has been taken as the limit of working); to the south the boundary is comprised of barriers of Norton Colliery and the Wolstanton Concentration Scheme; and to the west the boundary is partly the Harecastle Tunnel Pillar and partly a barrier against old workings.

The basis of the calculation is to take the area in acres and multiply by the stratigraphical thickness to obtain foot acres. The figure of 1,500 tons per foot acre, less 10% allowance for small faults and losses in working, etc., is used to obtain the workable tonnage.

Total workable reserves available to the colliery at 1st January, 1961, are as follows:

	<u>000's tons</u>	
Total available above 8690' (10,000'-8690' A.D.)	22,021	Existing main locomotive horizon.
Total available between 8690'-8300' above A.D.	14,649	Future main locomotive horizon now being developed.
Total available between 8300'-6500' above A.D. (4000' deep)	73,669	
Total available between 6500'-6000' above A.D. (4000'-4500' deep)	4,254	
	<hr/>	
Total workable reserves	<u>114,593</u>	

All the seams included in the table of reserves have been proved at Chatterley-Whitfield Colliery, and all except the Ragman, Winpenny, Brickiln, Diamond and Silver seams have been worked in part. Seams being worked at the present time are Moss, Yard, Bellringer, Ten Feet, Bullhurst and Brights.

The scheme has been based on the life of the colliery being in excess of 50 years following the completion of work which is the subject of this application.

4): PRESENT POSITION

The output from the Hesketh pit plus the Yard seam from the Middle Pit is treated in the "New" screens, making Best and House coals +4½" and Best and House cobbles 4½" x 3". The total 3" x 1½" raw coal is washed in No.3 Greaves screen washery producing No.1 Washed House Nuts. The 1½" x 0 raw coal passes by scraper conveyor to the dedusting plant where part of the feed is dedusted and the remainder passes over a dry slack extraction screen sizing at ½" square. Dedusted feed and slack screen oversize is loaded into trucks for transfer to the slack washery.

The output of Bellringer coal from the Middle Pit is treated in the "Old" or "Institute" screens, making a +4½" House coal. The 4½" x 1½" raw coal is treated in No.4 Greaves screen washery producing 4½" x 3" washed House Cobbles and 3" x 1½" No.1 Washed House Nuts. The whole of the 1½" x 0 raw coal passes via the dedusting plant to wagons for treatment at the slack washery.

Crushed rejects from No's 3 and 4 Greaves washboxes plus crushed hand picked inferior coal is all washed in No.5 Greaves washery producing washed No.1A mixture.

The slack washery treating dedusted 1½" - 0 with a proportion of the -½" material removed is situated nearly half a mile from the raw slack loading point underneath the dedusting plant. It consists of two double unit Greaves washeries producing No.2 Washed House Nuts 1½" x 7/8". Washed Peas 7/8" x ½" and Washed Smalls ½" - 0.

The 'Old' or 'Institute' screenroom was erected about 1921 and the screens washeries were added about 1928. The slack washery commenced operation in 1922 and the "New" screenroom was added in 1934. The general condition of the coal preparation facilities are quite commensurate with their age and are totally unsuitable both in terms of efficiency and flexibility for present preparation requirements.

The primary connection to the main line for railborne traffic at Chatterley-Whitfield is via a private line of 3 miles in length with exchange sidings at Pinnox, 2 miles from the Colliery. This private line passes through a tunnel 400 yards in length which is not in satisfactory condition.

The colliery at the present time operates three landsale yards - at the colliery itself, at Brownhills (Tunstall) and at Greenhead (Burslem). To operate the private railway line and colliery sidings to serve these landsale wharves, a total of eight locomotives is employed.

The Biddulph Valley Branch Line of British Railways passes adjacent to the colliery, and although there are facilities for taking occasional wagons on this line, the traffic at present passing through this connection is negligible.

Results in recent years at Chatterley-Whitfield Colliery are as follows:

<u>Year</u>	<u>Saleable Output</u>	<u>Overall O.M.S.</u>	<u>Profit or Loss</u>
1955	663,819 tons	25.8	P. £210,863 or 6/ 4.2 per ton
1956	666,980 tons	26.1	P. 275,848 or 8/ 3.3 per ton
1957	740,587 tons	25.3	P. 21,912 or 7.1 per ton
1958	688,195 tons	23.9	P. 55,840 or 1/ 7.5 per ton
1959	686,528 tons	27.0	P. 172,897 or 5/ 0.4 per ton
1960	590,669 tons	25.2	L. 19,298 or 7.8 per ton

5): TECHNICAL PROPOSALS

The main factors affecting the design of the proposed coal preparation plant are:

a): Seams to be treated are of four types:

- i): seams of coking rank and from which the Large (+ 2") coal is of good quality (i.e. Moss):
- ii): seams of coking rank and from which the Large (+ 2") coal is of medium quality (i.e. Ten Feet, Bullhurst, Silver):
- iii): Seams of borderline coking rank with good quality large (+ 2") coal (i.e. Yard):
- iv): Seams of borderline coking rank with medium quality Large (+ 2") coal (i.e. Bellringer).

b): Winding: Seams of categories (1) and (2) will be wound up the Hesketh shaft at a maximum rate of 300 tons per hour, and those in categories (3) and (4) up the Middle Pit at a maximum rate of 120 tons per hour.

c): Treatment:

- i): Large Coal - Raw coal above 2" in size will be treated according to inherent domestic group (without regard to rank) making two qualities (Best and House) of each of the grades +8", 8" x 3", 3" x 2".
- ii): Graded coal - Raw coal from all seams 2" x  $\frac{1}{2}$ " will be control blended and washed to make Gas coal.
- iii): Small coal - Raw coal  $\frac{1}{2}$ " x 0 from coking rank seams will be washed for the preparation of coking smalls whereas  $\frac{1}{2}$ " x 0 weakly coking rank coal will be extracted dry for sale in untreated state.

Proposed New Plant: R.O.M. coal will be delivered from the Hesketh and Middle Pit shafts on separate conveyors for preliminary sizing at 2". Raw coal above 2" will be diverted into either "Best" coal or "House" coal streams as appropriate and then further screened at 8".

+8" raw coal will be hand cleaned on a rotary picking table and the 8" - 2" will be treated in a dense medium bath. +8" raw coal, 8" x 3" Cobbles and 3" x 2" Trebles from both the "Best" and "House" streams will be produced.

Each 2" - 0 raw coal stream (either coking or near-coking) will pass to a separate raw coal storage and blending bunker from beneath which the coal will be discharged at blending rates on to  $\frac{1}{2}$ " raw coal screens. The coking coal will be screened wet and the  $\frac{1}{2}$ " - 0 underflow will pass to the cyclone dense medium plant. The other stream will be screened dry and the  $\frac{1}{2}$ " - 0 undersize sold untreated.

Both 2" x  $\frac{1}{2}$ " fractions will join together for treatment in a dense medium bath which will also treat the 8" x 2" primary dense medium system rejects, the two sizes being separated by screening after treatment or treated in a split bath.

$\frac{1}{2}$ " - 0 raw coking coal flowing from the  $\frac{1}{2}$ " wet screens will pass to the cyclone plant feed sump which will also de-slime at  $\frac{1}{2}$  m.m. The  $\frac{1}{2}$ " x  $\frac{1}{2}$  m.m. coal will be treated in a dense medium cyclone plant producing clean coal, middlings and discard. The middlings from this section of the plant will join the untreated smalls whilst the clean coal will be centrifuged and passed to a small washed smalls blending hopper.



Fines below  $\frac{1}{2}$  m.m. will be treated by froth flotation and the concentrates filtered on rotary disc filters. The filter cake will then join a constant stream of  $\frac{1}{2}$ " x  $\frac{1}{2}$  m.m. centrifuged smalls, the whole being thoroughly mixed.

Proposed landsale facilities: The proposed plant and the landsale facilities will be adjacent and integrated, the whole of the product range for landsale disposal being accommodated in receptacles designed specifically for road vehicle loading and bagging. The landsale bunkers and stallages will have a capacity equal to the daily demand of each grade.

Large coal: Hand cleaned coal of both Best and House qualities from the rotary picking table will be discharged to rail or will continue further on the table and pass to large coal bagging stallages.

8" x 3" Best or House cobbles will either pass to rail from the clean coal classifying screens or to cobbles bagging stallages fed by travelling boom loader.

Graded coal: Best or House trebles from the classifying screen will either pass to rail by boom loader or to trebles landsale bunkers, the bunkers being equipped with bagging outlets. Doubles and singles will be filled into bunkers sited such that they may be discharged either by road or rail.

Smalls: Both washed and dry smalls will be loaded to either rail or road via bunkers.

#### Dirt Disposal Arrangements:

Dirt disposal from the coal preparation plant will be by conveyor to a bunker situated on the south side of the colliery, to which dirt wound at either the Hesketh or Middle Pit shafts will also be conveyed. From this bunker the dirt will be transported by euclid to the tipping site.

#### Coal stocking and Foreign coal:

An existing coal stocking area lying immediately to the east of the Hesketh shaft will be retained. An additional coal stocking area will be made available adjacent to the coal preparation plant.

A foreign coal tippler is included in the scheme, to be capable of passing tipped fuel via road or rail to either the Best, House or General Purpose R.O.M. conveyors.

#### Proposed new sidings:

Entirely new sidings will be required for the coal preparation plant. The sidings are designed so that all the output if necessary can be loaded to wagon. Both the plant and the sidings will be designed to accommodate wagons of 24 tons capacity.

At the exchange sidings there will be six tracks, two of which will normally be reception sidings and four departure sidings.

There will be standage for just over one day's requirements of both 'Fulls' and 'Empties' wagons when the colliery is working at full capacity.

6): MARKETING

During 1960 Chatterley-Whitfield Colliery produced 590,669 saleable tons of which approximately 50% was despatched by rail and 50% by road. The majority of the railborne traffic went via the private line referred to previously. The bulk of the output was from seams of ranks 5/600 but because of high sulphur content (1.9%) only a small quantity (30,000 tons) of the washed smalls was supplied to the coking industry (all going to the Birchenwood Gas & Coke Co., at Kids Grove). Approximately 49,000 tons of graded coal were supplied for gas making, the remainder flowing mainly to the Pottery industry, while 88,000 tons of smalls were supplied to C.E.G.B. Power Stations.

Approximately 169,000 tons of large coals in Groups 2, 4 and 5 were supplied to the domestic market locally and to the North West, while a further 41,000 tons of house coals (Group 5) were supplied for shipment to Northern Ireland.

On completion of the proposed scheme in 1964 the new plant will be capable of dealing with 750,000 saleable tons per annum and is designed to wash the 8" - 0 fraction of the output with provision for extracting untreated smalls from the Yard and Bellringer seams (Rank 701) for C.E.G.B.

From the Moss seam, the large coal +8" and Best Washed Cobbles 8" x 3" will be sold in Group 2 and the Best Washed Nuts 3" x 2" in Group 4. Provision will also be made for hand selecting +8" from the Bellringer seam for locomotive purposes. The remaining seams will be mixed and sold as House Coal +8" and washed House Cobbles 8" x 3" in Group 4, and Washed House Nuts 3" x 2" in Group 5.

The 2" x 1" and 1" x 1/2" fraction from all seams will be mixed to produce graded coals of rank 601 which will be suitable for gas making while the washed smalls also of rank 601 will be suitable for coke ovens as their sulphur content should be reduced to 1.3%. The 1/2" untreated smalls from the Yard and Bellringer seams will be suitable for power stations and/or Industry.

The following is a complete range of qualities to be produced from the new plant:

<u>Grade</u>	<u>Size</u>	<u>Seams</u>	<u>Preparation</u>	<u>Tons</u>	<u>Group/Market</u>
Best Coal	Over 8"	Moss	H.C.	27,000	Gp.2 Domestic
House Coal	over 8"	Yard/Bullhurst/ Silver/Ten Feet	H.C.	39,000	Gp.4 Domestic
Steam Coal	over 8"	Bellringer	H.S.	13,500	Locomotive
Best Cobbles	8" x 3"	Moss	Washed	52,500	Gp.2 Domestic
House Cobbles	8" x 3"	Yard/Bullhurst Bellringer/Silver/ Ten Feet	Washed	75,000	Gp.4 Domestic
Best Nuts	3" x 2"	Moss	Washed	31,500	Gp.4 Domestic/ Gas
House Nuts	3" x 2"	Yard/Bullhurst/ Bellringer/Silver/ Ten Feet	Washed	27,000	Gp.5 Domestic
Doubles	2" x 1"	All seams	Washed	95,250	Gas
Singles	1" x 1/2"	All seams	Washed	103,500	Gas
Coking Smalls	1/2" - 0	Moss/Bullhurst/ Silver/Ten Feet	Washed	222,750	Coke Ovens
Dry Smalls	1/2" - 0	Yard/Bellringer	Untreated	63,000	C.E.G.B./Ind.
				<u>750,000</u>	

Average proceeds as shown in Appendix X are estimated at 105/6.6d. per ton based on estimates of size distribution and analyses provided by Coal Preparation Department. Service Charges and wholesale margins are expected to yield a further £41,000 per annum.

On completion of the scheme the present landsale wharves at Brownhills (Tunstall) and Greenhead (Burslem) will be closed.

The comprehensive landsale facilities to be provided at the new plant, embracing part of the existing facilities at the colliery, will be capable of handling an average of 6,000 tons per week (2,000 tons per week of house coal qualities and 4,000 tons of industrial/carbonisation grades which will be supplied from bunkers fed direct from the preparation plant).

The stocking ground will be prepared to accommodate about 60,000 tons, which is sufficient to hold 4 weeks output on completion.

7): MANPOWER .

Manpower employed at the present time on coal preparation, including maintenance, at Chatterley-Whitfield Colliery is 97, and it is estimated that a reduction of 27 can be effected by the introduction of new coal preparation facilities envisaged in this application. Manpower employed at the present time on landsale wharves at and associated with the colliery is 28, and it is estimated that a reduction of 24 can be effected by the closure of the two outlying wharves and the concentration of operations at the colliery. Several other minor savings in surface manpower are also envisaged in association with the whole scheme, and it is estimated that the total reduction in surface manpower will amount to 125.

Details of Manpower Saving:

	<u>Present</u>	<u>Future</u>	<u>Saving</u>
Plant operatives and maintenance	97	70	27
Landsale wharf	28	4	24
Wagon operators	32	15	17
Locomotive Drivers, Firemen and Shunters	35	14	21
Locomotive repairs	5	2	3
Platelayers	9	5	4
Banking	45	36	9
Dirt Disposal	31	11	20
TOTALS	<u>282</u>	<u>157</u>	<u>125</u>

8): ESTIMATED NEW EXPENDITURE AND INVESTMENT

Itemised in Appendix IV is the new expenditure considered necessary to complete the work. The estimated cost of coal preparation facilities has been completed by Coal Preparation Branch following consultations with Headquarters, whilst close co-operation has been maintained with all branches concerned at Colliery, Group and Area levels. As indicated in the foregoing paragraph on reserves (para. 3) the colliery has a life in excess of fifty years, consequently no provision for accelerated rates of depreciation is necessary.

Interest during the reconstruction period for the whole scheme is shown in Appendix VII, and that relating to the Coal Preparation Plant only is shown in Appendix VIIA. Total investment in the whole project amounting to Capital, £1,454,085 and Revenue £14,421 is shown in Appendix IX and the total investment in the Coal Preparation Plant only, amounting to Capital, £1,083,653 and Revenue £2,200 is shown in Appendix IXA.

9): PROFITABILITY

The expected Financial Return from the project is presented in two aspects as follows:

- a): The results expected from the operation of the new coal preparation plant are shown in Appendix XVII and are based upon planned capacity, namely 750,000 tons per annum.
- b): A statement embracing the whole new expenditure and showing the expected saving for the entire scheme, based upon the 1960 level of output is included, and is referred to as Appendix 'P'.

Appendix XVII shows that when operating at full capacity the new plant will improve "Net proceeds" by £123,999 per annum after taking depreciation and interest on Capital into account.

Appendix 'P' shows the savings expected from the surface reorganisation at the colliery. The total improvement in proceeds on the basis of existing (1960) output is estimated at £184,354 or 6/2.9d per ton. The consequent savings in manpower, due to the reorganisation, largely balance the cost of additional depreciation and interest on Capital. The net additional costs, as a result of the project, are estimated to be £68,977 or 2/4.1d. per ton. It follows that the colliery results are expected to improve by £115,377 or 3/10.8d per ton on completion of the project.

AREA PLANNING BRANCH:  
21st March, 1961:

NATIONAL COAL BOARD

THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

ESTIMATED RESERVES AS AT 1ST JANUARY 1961.

APPENDIX IIA to F.631/R (1957)

SHEET 1 of 3 SHEETS.  
WEST MIDLANDS DIVISION  
NO. 1 (NORTH STAFFS) AREA  
CHATTERLEY WHITFIELD COLLIERY.

SEAMS WITH OVER 2FT 0INS OF COAL.

Name of Seam.	Average Thickness of Coal		Area A.	Area B.	Total Area	Ash	Sulphur	Volatile	Coal Survey Code No.	Remarks.
	Ins.	Area	Workable Tonnage	Workable Tonnage	Workable Tonnage	(Air Dried)	(Air Dried)	Matter (d.m.m.f.)		
			000 tons	000 tons	000 tons	%	%	%		
a). <u>Above Existing 8690' Horizon</u> (10,000' to 8690' above A.D.)										
	A	B								
Moss.	27	54	277	12	295	5.0	0.8	38.0	800	
Moss.	27	54	98	4,234	4,332	5.0	0.8	37.7-37.1	700	Recently worked in Area B
Yard.	30	30	141	-	141	3.5	1.0	38.0	600	Being worked in Area A
Yard.	30	30	647	904	1,551	3.5	1.0	37.8-37.4	700	
Ragman.	30	27	772	-	772	4.5	1.0	38.7-38.2	800	
Ragman.	30	27	210	1,189	1,399	4.5	1.0	38.0-37.7	700	
Hams.	30	48	1,712	150	1,862	2.0-2.5	0.9	37.9-37.2	800	
Hams.	30	48	11	1,511	1,522	2.5	0.9	37.0	700	
Bellringer.	39	36	863	-	863	4.0	0.7	36.7-36.4	800	Being worked in Area A
Bellringer.	39	36	801	813	1,614	4.0	0.7	36.2-36.1	700	
Ten Feet.	54	60	-	-	-	4.0	1.7	36.7	800	
Ten Feet.	54	60	-	161	161	4.0-4.5	1.7	36.5-36.3	700	
Ten Feet.	54	60	-	37	37	4.5	1.7	36.1	600	
Bowling Alley.	36	-	309	-	309	3.5	1.2	36.7	700	
Bowling Alley.	36	-	1	-	1	3.5	1.2	36.5	600	
Banbury.	45	-	774	-	774	3.5	1.1	37.0-36.1	800	
Cockshead.	78	-	506	-	506	3.0	0.6	34.5	700	
Bullhurst.	46	-	542	-	542	6.5	3.1	33.0-37.3	700	
Bullhurst.	46	-	75	-	75	6.5	3.1	37.1	600	
Winpenny.	27	-	104	-	104	6.0	2.1	37.6	700	
Winpenny.	27	-	13	-	13	6.0	2.1	37.4	600	
Brickiln.	24	-	305	-	305	6.0	3.0	37.0	800	
Brickiln.	24	-	918	-	918	6.0	3.0	36.5-36.2	700	
Diamond.	24	-	304	-	304	4.0	1.3	38.3-37.9	800	
Diamond.	24	-	881	-	881	4.8	1.3	37.5-37.1	700	
Silver.	27	-	1,186	-	1,186	5.0	1.0	37.7-36.8	700	
Silver.	27	-	119	-	119	5.0	1.0	36.6	600	
Brights.	33	-	790	-	790	6.5	4.3	39.2-38.8	700	
Brights.	33	-	570	-	570	6.5	4.5	38.5-38.4	600	Being worked in Area A.
TOTAL CODE NO. 800			5,142	168	5,310				800	
TOTAL CODE NO. 700			8,981	2,572	11,553				700	
TOTAL CODE NO. 600			615	37	652				600	
TOTAL ABOVE 8690 Ft. Horizon.			12,944	9,477	22,021					Existing Main Locomotive Horizon.
b). <u>Available Between 8690' to 8300'</u> <u>above A.D.</u>										
Moss.	-	54	-	2,495	2,495	5.0	0.8	36.2	600	Being worked in Area B.
Yard.	-	30	-	1,192	1,192	3.5	1.0	36.9	700	
Ragman.	-	27	-	1,371	1,371	4.5	1.0	37.2	700	
Hams.	-	48	-	2,143	2,143	3.0	1.0	36.7	700	Recently worked in Area B.
Bellringer.	-	36	-	1,538	1,538	4.0	0.7	36.1	700	
Ten Feet.	-	60	-	2,091	2,091	4.5	1.7	36.0	600	Being worked in Area B.
Bowling Alley	36	36	11	531	542	3.5	1.2	36.3	600	
Hardmine.	49	51	-	138	138	4.5	1.5	35.0	600	
Flatts.	24	30	819	1	820	3.5	1.0	36.6	600	
Winpenny.	27	-	667	-	667	6.0	2.1	37.1	600	
Brickiln.	24	-	21	-	21	6.0	3.0	35.9	700	
Brickiln.	24	-	313	-	313	6.0	3.0	35.8	600	
Diamond.	24	-	100	-	100	4.0	1.3	36.9	700	
Diamond.	24	-	377	-	377	4.8	1.3	36.7	600	
Silver.	27	-	506	-	506	5.0	1.0	36.4	600	
Brights.	33	-	138	-	138	6.5	4.5	38.0	600	

Name of Seam.	Average Thickness of Coal		Area A.	Area B.	Total Area	Ash	Sulphur	Volatile	Coal	Remarks.
	Ins.		Workable Tonnage	Workable Tonnage	Workable Tonnage	(Air Dried)	(Air Dried)	Matter (d.m.m.f.)	Survey Code No.	
			000 tons	000 tons	000 tons	%	%	%		
a). <u>Above Existing 8690' Horizon</u> (10,000' to 8690' above A.D.)	Area									
	A	B								
Moss.	27	54	277	18	295	5.0	0.8	38.0	800	
Moss.	27	54	98	4,234	4,332	5.0	0.8	37.7-37.1	700	Recently worked in Area B
Yard.	30	30	141	-	141	3.5	1.0	38.0	800	Being worked in Area A
Yard.	30	30	617	964	1,581	3.5	1.0	37.8-37.4	700	
Ragman.	30	27	772	-	772	4.5	1.0	38.7-38.2	800	
Ragman.	30	27	210	1,189	1,399	4.5	1.0	38.0-37.7	700	
Hams.	30	48	1,712	150	1,862	2.0-2.5	0.9	37.9-37.2	800	
Hams.	30	48	11	1,511	1,522	2.5	0.9	37.0	700	
Bellringer.	39	36	863	-	863	4.0	0.7	36.7-36.4	800	Being worked in Area A
Bellringer.	39	36	801	813	1,614	4.0	0.7	36.2-36.1	700	
Ten Feet.	54	60	-	-	-	4.0	1.7	36.7	800	
Ten Feet.	54	60	-	161	161	4.0-4.5	1.7	36.5-36.3	700	
Ten Feet.	54	60	-	37	37	4.5	1.7	36.1	600	
Bowling Alley.	36	-	309	-	309	3.5	1.2	36.7	700	
Bowling Alley.	36	-	1	-	1	3.5	1.2	36.5	600	
Banbury.	45	-	774	-	774	3.5	1.1	37.0-36.7	800	
Cockshead.	78	-	506	-	506	3.0	0.6	34.5	700	
Bullhurst.	46	-	542	-	542	6.5	3.1	38.0-37.3	700	
Bullhurst.	46	-	73	-	73	6.5	3.1	37.1	600	
Winpenny.	27	-	104	-	104	6.0	2.1	37.6	700	
Winpenny.	27	-	13	-	13	6.0	2.1	37.4	600	
Brickiln.	24	-	305	-	305	8.0	3.0	37.0	800	
Brickiln.	24	-	918	-	918	8.0	3.0	36.6-36.2	700	
Diamond.	24	-	304	-	304	4.8	1.3	38.3-37.9	800	
Diamond.	24	-	881	-	881	4.8	1.3	37.5-37.1	700	
Silver.	27	-	1,186	-	1,186	5.0	1.0	37.7-36.8	700	
Silver.	27	-	119	-	119	5.0	1.0	36.6	600	
Brights.	33	-	798	-	798	6.5	4.5	39.2-38.8	700	
Brights.	33	-	570	-	570	6.5	4.5	38.6-38.4	600	Being worked in Area A.
TOTAL CODE NO. 800			5,148	168	5,316				800	
TOTAL CODE NO. 700			6,981	8,872	15,853				700	
TOTAL CODE NO. 600			815	37	852				600	
TOTAL ABOVE 8690 Ft. Horizon.			12,944	9,077	22,021					Existing Main Locomotive Horizon.
b). <u>Available Between 8690' to 8300' above A.D.</u>										
Moss.	-	54	-	2,495	2,495	5.0	0.8	36.2	600	Being worked in Area B.
Yard.	-	30	-	1,192	1,192	3.5	1.0	36.9	700	
Ragman.	-	27	-	1,371	1,371	4.5	1.0	37.2	700	
Hams.	-	48	-	2,143	2,143	3.0	1.0	36.7	700	Recently worked in Area B.
Bellringer.	-	36	-	1,538	1,538	4.0	0.7	36.1	700	
Ten Feet.	-	60	-	2,091	2,091	4.5	1.7	36.0	600	Being worked in Area B.
Bowling Alley	36	36	11	531	542	3.5	1.2	36.3	600	
Hardmine.	49	51	-	138	138	4.5	1.5	35.0	600	
Flatts.	24	30	819	1	820	3.5	1.0	36.6	600	
Winpenny.	27	-	667	-	667	6.0	2.1	37.1	600	
Brickiln.	24	-	212	-	212	8.0	3.0	35.9	700	
Brickiln.	24	-	319	-	319	8.0	3.0	35.8	600	
Diamond.	24	-	100	-	100	4.8	1.3	36.9	700	
Diamond.	24	-	377	-	377	4.8	1.3	36.7	600	
Silver.	27	-	506	-	506	5.0	1.0	36.4	600	
Brights.	33	-	138	-	138	6.5	4.5	38.0	600	
TOTAL CODE NO. 700			312	6,244	6,556				700	
TOTAL CODE NO. 600			2,837	5,256	8,093				600	
AVAILABLE BETWEEN 8690' to 8300' ABOVE A.D.			3,149	11,500	14,649					

## NATIONAL COAL BOARD

## THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

ESTIMATED RESERVES AS AT 1st JANUARY, 1961.

## SEAMS WITH OVER 2 FT. 0 INS. OF COAL

Name of Seam	Average Thickness of Coal		Area A	Area B	Total Area	Ash	Sulphur	Volatile	Coal	Remarks.
	Ins.		Workable Tonnage	Workable Tonnage	Workable Tonnage	(Air Dried)	(Air Dried)	Matter (d.m.m.f.)	Survey Code No.	
	Area		000 tons	000 tons	000 tons	%	%	%		
a). Available Between 8300' to 6500' above A.D. (4000 ft. Deep)	A	B								
Moss.	-	54	-	927	927	5.0	0.8	35.9	600	
Yard.	-	30	-	736	736	3.5	1.0	35.6	700	
Yard.	-	30	-	534	534	3.5	1.0	35.1	600	
Ragman.	-	27	-	810	810	4.5	1.0	36.7	700	
Ragman.	-	27	-	531	531	4.5	1.0	36.2	600	
Hams.	-	43	-	1,921	1,921	3.0	1.0	36.3	700	
Hams.	-	48	-	861	861	3.0	1.0	35.0-35.5	600	
Bellringer.	-	36	-	2,387	2,387	4.0	0.7	36.0-35.8	700	
Bellringer.	-	36	-	318	318	4.0	0.7	35.8	600	
Ten Feet.	-	60	-	4,649	4,649	4.5	1.7	35.5-35.4	600	
Ten Feet.	-	60	-	865	865	4.5	1.7	35.2	500	
Bowling Alley.	-	36	-	783	783	3.5	1.2	35.8	600	
Bowling Alley.	-	36	-	2,443	2,443	3.5	1.2	35.2	500	
Bowling Alley.	-	36	-	291	291	3.5	1.2	34.9	400	
Holly Lane.	-	39	-	454	454	2.5	1.2	36.1	600	
Holly Lane.	-	39	-	1,582	1,582	2.5	1.2	35.6-35.4	500	
Holly Lane.	-	39	-	495	495	2.5	1.2	35.4	400	
Hardmine.	-	51	-	1,448	1,448	4.5	1.5	35.4	600	
Hardmine.	-	51	-	4,395	4,395	4.5	1.5	35.0-34.8	500	
Flatts.	24	30	194	835	1,030	3.5	1.0	36.2	600	
Flatts.	-	30	-	3,175	3,175	3.5	1.0	35.8	500	
Banbury.	45	51	-	17	17	3.5	1.1	35.1	600	
Banbury.	45	51	-	5,345	5,345	3.5	1.1	35.1-34.9	500	
Banbury.	-	51	-	775	775	3.5	1.1	34.7	400	
Cockshead.	-	78	-	5,043	5,043	3.0	0.6	33.3	500	
Cockshead.	-	78	-	1,708	1,708	3.0	0.6	33.1	400	
Bullhurst.	46	48	1,188	348	1,536	6.5	3.1	36.2-35.9	500	Being worked in Area A.
Bullhurst.	46	48	-	4,432	4,432	6.5	3.1	35.6	400	
Bullhurst.	46	48	-	1,009	1,009	6.5	3.1	35.3	300	
Winpenny.	27	27	1,935	72	2,007	5.0	2.1	36.7-36.5	600	
Winpenny.	27	27	53	2,727	2,780	6.0	2.1	36.3	500	
Winpenny.	27	27	-	244	244	6.0	2.1	36.1	400	
Brickiln.	24	24	1,921	122	2,043	8.0	3.0	35.5	600	
Brickiln.	24	24	11	2,424	2,435	8.0	3.0	35.3	500	
Diamond.	24	24	2,111	50	2,161	4.8	1.3	35.4-36.2	600	
Diamond.	24	24	82	2,179	2,261	4.8	1.3	35.9	500	
Silver.	27	27	2,650	2,181	4,831	5.0	1.0	36.1-35.8	600	
Brights.	33	36	1,210	-	1,210	6.5	4.5	37.0-36.7	500	Recently worked in Area A.
Brights.	33	36	871	2,273	3,144	6.5	4.5	36.4	400	
TOTAL CODE NO. 700			-	5,854	5,854				700	
TOTAL CODE NO. 600			8,862	13,733	22,595				600	
TOTAL CODE NO. 500			2,544	30,523	33,067				500	
TOTAL CODE NO. 400			871	16,213	17,084				400	
TOTAL CODE NO. 300			-	1,009	1,009				300	

SEAMS WITH OVER 2 FT. 0 INS. OF COAL

Name of Seam	Average Thickness of Coal		Area A Workable Tonnage	Area B Workable Tonnage	Total Area Workable Tonnage	Ash (Air Dried)	Sulphur (Air Dried)	Volatile Matter (d.m.m.f.)	Coal Survey Code No.	Remarks.
	Ins.	Area								
a). Available Between 8300' to 6500' above A.D. (4000 ft. Deep)										
	A	B	000 tons	000 tons	000 tons	%	%	%		
Moss.	-	54	-	927	927	5.0	0.8	35.9	600	
Yard.	-	30	-	736	736	3.5	1.0	36.6	700	
Yard.	-	30	-	534	534	3.5	1.0	36.1	600	
Ragman.	-	27	-	810	810	4.5	1.0	36.7	700	
Ragman.	-	27	-	531	531	4.5	1.0	36.2	600	
Hams.	-	48	-	1,921	1,921	3.0	1.0	36.3	700	
Hams.	-	48	-	861	861	3.0	1.0	36.0-35.5	600	
Bellringer.	-	36	-	2,387	2,387	4.0	0.7	36.0-35.8	700	
Bellringer.	-	36	-	318	318	4.0	0.7	35.8	600	
Ten Feet.	-	60	-	4,649	4,649	4.5	1.7	35.5-35.4	600	
Ten Feet.	-	60	-	865	865	4.5	1.7	35.2	500	
Bowling Alley.	-	36	-	783	783	3.5	1.2	35.8	600	
Bowling Alley.	-	36	-	2,443	2,443	3.5	1.2	35.2	500	
Bowling Alley.	-	36	-	291	291	3.5	1.2	34.9	400	
Holly Lane.	-	39	-	454	454	2.5	1.2	36.1	600	
Holly Lane.	-	39	-	1,582	1,582	2.5	1.2	35.6-35.4	500	
Holly Lane.	-	39	-	495	495	2.5	1.2	35.4	400	
Hardmine.	-	51	-	1,448	1,448	4.5	1.5	35.4	600	
Hardmine.	-	51	-	4,396	4,396	4.5	1.5	35.0-34.8	500	
Flatts.	24	30	194	835	1,030	3.5	1.0	36.2	600	
Flatts.	-	30	-	3,176	3,176	3.5	1.0	35.8	500	
Banbury.	45	51	-	17	17	3.5	1.1	35.4	600	
Banbury.	45	51	-	5,345	5,345	3.5	1.1	35.1-34.9	500	
Banbury.	-	51	-	775	775	3.5	1.1	34.7	400	
Cockshead.	-	78	-	5,043	5,043	3.0	0.6	33.3	500	
Cockshead.	-	78	-	1,708	1,708	3.0	0.6	33.1	400	
Bullhurst.	46	48	1,188	348	1,536	6.5	3.1	36.2-35.9	500	Being worked in Area A.
Bullhurst.	46	48	-	4,432	4,432	6.5	3.1	35.6	400	
Bullhurst.	46	48	-	1,009	1,009	6.5	3.1	35.3	300	
Winpenny.	27	27	1,936	72	2,058	6.0	2.1	36.7-36.5	600	
Winpenny.	27	27	53	2,727	2,780	6.0	2.1	36.3	500	
Winpenny.	27	27	-	244	244	6.0	2.1	36.1	400	
Brickiln.	24	24	1,921	122	2,043	8.0	3.0	35.5	600	
Brickiln.	24	24	11	2,424	2,435	8.0	3.0	35.3	500	
Diamond.	24	24	2,111	50	2,161	4.8	1.3	36.4-36.2	600	
Diamond.	24	24	82	2,179	2,261	4.8	1.3	35.9	500	
Silver.	27	27	2,650	2,181	4,831	5.0	1.0	36.1-35.3	600	
Brights.	33	36	1,210	-	1,210	6.5	4.5	37.0-36.7	500	Recently worked in Area A.
Brights.	33	36	871	2,273	3,144	6.5	4.5	36.4	400	
TOTAL CODE NO. 700			-	5,854	5,854				700	
TOTAL CODE NO. 600			8,862	13,733	22,595				600	
TOTAL CODE NO. 500			2,544	30,523	33,072				500	
TOTAL CODE NO. 400			871	10,213	11,089				400	
TOTAL CODE NO. 300			-	1,009	1,009				300	
AVAILABLE BETWEEN 8300' to 6500' ABOVE A.D.			12,277	61,392	73,669					



NATIONAL COAL BOARD  
 THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL  
 ESTIMATED RESERVES AS AT 1st JANUARY, 1961.

APPENDIX IIA to F.631/R(1957)

SHEET 3 of 3 SHEETS.

WEST MIDLANDS DIVISION  
 NO. 1 (NORTH STAFFS) AREA  
 CHATTERLEY WHITFIELD COLLIERY

SEAMS WITH OVER 2 FT. 0 INS. OF COAL

Name of Seam	Average Thickness of Coal		Area A Workable Tonnage 000 tons	Area B Workable Tonnage 000 tons	Total Area Workable Tonnage 000 tons	Ash (Air Dried)	Sulphur (Air Dried)	Volatile Matter (d.m.m.f.) %	Coal Survey Code No.	Remarks.
	Ins.	Area A B								
d). Available Between 6500' to 6000' above A.D. (4000' to 4500' Deep)										
Bullhurst.	-	48	-	118	118	6.5	3.1	35.3	300	
Winpenny.	-	27	-	256	256	6.0	2.1	35.9	400	
Brickiln.	-	24	-	346	346	8.0	3.0	35.1	500	
Diamond.	-	24	-	622	622	4.8	1.3	35.7	500	
Silver.	-	27	-	1,042	1,042	5.0	1.0	35.6	600	
Brights.	-	36	-	953	953	6.5	4.5	36.2	400	
Brights.	-	36	-	917	917	6.5	4.5	36.0	300	
TOTAL CODE NO. 600			-	1,042	1,042				600	
TOTAL CODE NO. 500			-	968	968				500	
TOTAL CODE NO. 400			-	1,209	1,209				400	
TOTAL CODE NO. 300			-	1,035	1,035				300	
AVAILABLE BETWEEN 6500' to 6000' ABOVE A.D.			-	4,254	4,254					
e). SUMMARY										
i) Available Between 10,000' to 8690' above A.D.			5,148	168	5,316				800	
-do- -do-			6,981	8,872	15,853				700	
-do- -do-			815	37	852				600	
ii) Available Between 8690' to 8300' above A.D.			312	6,244	6,556				700	
-do- -do-			2,837	5,256	8,093				600	
iii) Available Between 8500' to 6500' above A.D.			-	5,854	5,854				700	
-do- -do-			8,862	13,783	22,645				600	
-do- -do-			2,544	30,528	33,072				500	
-do- -do-			871	10,218	11,089				400	
-do- -do-			-	1,009	1,009				300	
iv) Available Between 6500' to 6000' above A.D.			-	1,042	1,042				600	
-do- -do-			-	968	968				500	
-do- -do-			-	1,209	1,209				400	
-do- -do-			-	1,035	1,035				300	
TOTAL CODE NO. 800			5,148	168	5,316				800	
TOTAL CODE NO. 700			7,293	20,970	28,263				700	
TOTAL CODE NO. 600			12,514	20,118	32,632				600	
TOTAL CODE NO. 500			2,544	31,496	34,040				500	
TOTAL CODE NO. 400			871	11,427	12,298				400	
TOTAL CODE NO. 300			-	2,044	2,044				300	
TOTAL WORKABLE RESERVES			28,370	86,223	114,593					

SEAMS WITH OVER 2 FT. 0 INS. OF COAL

Name of Seam	Average Thickness of Coal		Area A Workable Tonnage 000 tons	Area B Workable Tonnage 000 tons	Total Area Workable Tonnage 000 tons	Ash (Air Dried)	Sulphur (Air Dried)	Volatile Matter (d.m.m.f.)	Coal Survey Code No.	Remarks.
	Ins.	Area A B								
d). Available Between 6500' to 6000' above A.D. (4000' to 4500' Deep)										
Bullhurst.	-	48	-	118	118	6.5	3.1	35.3	300	
Winpenny.	-	27	-	256	256	6.0	2.1	35.9	400	
Brickiln.	-	24	-	346	346	8.0	3.0	35.1	500	
Diamond.	-	24	-	622	622	4.8	1.3	35.7	500	
Silver.	-	27	-	1,042	1,042	5.0	1.0	35.6	600	
Brights.	-	36	-	953	953	6.5	4.5	36.2	400	
Brights.	-	36	-	917	917	6.5	4.5	36.0	300	
TOTAL CODE NO. 600			-	1,042	1,042				600	
TOTAL CODE NO. 500			-	968	968				500	
TOTAL CODE NO. 400			-	1,209	1,209				400	
TOTAL CODE NO. 300			-	1,035	1,035				300	
AVAILABLE BETWEEN 6500' to 6000' ABOVE A.D.			-	4,254	4,254					
e). SUMMARY										
i) Available Between 10,000' to 8690' above A.D.			5,148	168	5,316				800	
-do- -do-			6,981	8,872	15,853				700	
-do- -do-			815	37	852				600	
ii) Available Between 8690' to 8300' above A.D.			312	6,244	6,556				700	
-do- -do-			2,837	5,255	8,093				600	
iii) Available Between 8500' to 6500' above A.D.			-	5,854	5,854				700	
-do- -do-			8,862	13,783	22,645				600	
-do- -do-			2,544	30,528	33,072				500	
-do- -do-			871	10,218	11,089				400	
-do- -do-			-	1,009	1,009				300	
iv) Available Between 6500' to 6000' above A.D.			-	1,042	1,042				600	
-do- -do-			-	968	968				500	
-do- -do-			-	1,209	1,209				400	
-do- -do-			-	1,035	1,035				300	
TOTAL CODE NO. 800			5,148	168	5,316				800	
TOTAL CODE NO. 700			7,293	20,970	28,263				700	
TOTAL CODE NO. 600			12,514	20,118	32,632				600	
TOTAL CODE NO. 500			2,544	31,496	34,040				500	
TOTAL CODE NO. 400			871	11,427	12,298				400	
TOTAL CODE NO. 300			-	2,044	2,044				300	
TOTAL WORKABLE RESERVES			28,370	86,223	114,593					

NOTE: A.D. IS THE ASSUMED DATUM OF 10,000 FT. BELOW ORDNANCE DATUM.  
 FORMULA FOR CALCULATION OF 'WORKABLE RESERVES' 1,350 TONS PER FOOT ACRE  
 CHATTERLEY WHITFIELD COLLIERY 'TAKE' AREA A - EAST OF HIGH LANE FAULT  
 " " " " AREA B - WEST OF HIGH LANE FAULT

NATIONAL COAL BOARD

APPENDIX IV TO F.631/R (1957)

SHEET 1 of 2 SHEETS

Effective Date of Estimate January, 1961.

THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

SCHEDULE OF NE EXPENDITURE

(Including Capital and Major Revenue Expenditure)

WEST MIDLANDS DIVISION  
NO. 1 (NORTH STAFFS) AREA  
CHATTERLEY WHITFIELD COLLIERY

COAL PREPARATION SCHEME

Section	Sub Section	Branch	Description	Basis of Estimate	No. of items required, length of Roadway or Shaft, etc. (with Plan Ref).	Size or Capacity	Estimated Cost (before Contingencies)	Allowance for Contingencies		Fees		Total Estimated Expenditure	Allocation of Total Expenditure		Depreciation	
								%	Amount	%	Amount		Revenue	Capital	%	Estimated Annual Charge
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
01	12	C	<u>GENERAL EXPENSES</u> Site Engineer, staff etc.	T.E.			5,520	10	552	-	-	6,072	-	6,072	2½	152
			TOTAL SECTION 01				5,520	10	552	-	-	6,072	-	6,072	2½	152
02			<u>SITE PREPARATION</u>													
	11	C	Site office and services	T.E.			1,000	10	100	-	-	1,100	-	1,100	2½	27
	12	E	Power supplies to Contractor	T.E.			3,000	10	300	-	-	3,300	2,200	1,100	2½	28
	13	C	Test boreholes.	T.E.			2,000	10	200	-	-	2,200	-	2,200	2½	55
			TOTAL SECTION 02				6,000	10	600	-	-	6,600	2,200	4,400	2½	110
09			<u>POWER &amp; HEAT SUPPLY</u>													
	22	E	Sub. Stn. Equipment & Surface Cables.	T.E.			6,250	10	625	-	-	6,875	-	6,875	5	344
	25	E	Space Heating.	T.E.			3,138	10	314	-	-	3,452	-	3,452	5	172
			TOTAL SECTION 09				9,388	10	939	-	-	10,327	-	10,327	5	516
13			<u>SURFACE LAYOUT</u>													
	11	C	Demolitions-Briquette Plant etc.	T.E.			3,000	10	800	-	-	3,800	8,800	-	-	-
	12	C	Demolitions-Loco Shed.	T.E.			2,000	10	200	-	-	2,200	2,200	-	-	-
	13	C	Drainage.	T.E.			12,880	10	1,288	-	-	14,168	-	14,168	2½	354
	14	C	Earthworks-Exchange Sidings	T.E.			3,975	10	397	-	-	4,372	-	4,372	2½	109
	15	C	Earthworks-Coal Prep. Sidings Landsale Wharf etc.	T.E.			14,610	10	1,461	-	-	16,071	-	16,071	2½	402
	16	C & E	Roadways & Roadways Lighting	T.E.			4,200	10	420	-	-	4,620	-	4,620	2.9	135
	17	C	Fire Ring Main etc.	T.E.			4,500	10	450	-	-	4,950	-	4,950	2½	124
	18	C	Fencing.	T.E.	Approx. 1270 yds. & 2 gates.		2,560	10	256	-	-	2,816	-	2,816	2½	70
	19	C	Settling Pond, Pumphouse etc.	T.E.			19,500	10	1,950	-	-	21,450	-	21,450	2½	536
	20	C & E	Reservoir, Pumphouse etc.	T.E.			14,468	10	1,447	-	-	15,915	-	15,915	3.6	576
			TOTAL SECTION 13				86,693	10	8,669	-	-	95,362	11,000	84,362	2.7	2,306
14			<u>MATERIALS YARD &amp; SIDINGS.</u>													
	11	C	Exchange Sidings.	T.E.	Approx. 2750yds. trackwork		29,650	10	2,965	-	-	32,615	-	32,615	2½	815
	12	C	Coal Prep. Plant Sidings etc.	T.E.	Approx. 3550yds. new trackwork		54,270	10	5,427	-	-	59,697	-	59,697	2½	1,492
	13	C	Landsale Wharf Surfacing.	T.E.	Approx. 1430yds. relay.		6,940	10	694	-	-	7,634	-	7,634	2½	191
	14	C & E	Wagon Weigh-houses & machines	T.E.	2		12,258	10	1,226	-	-	13,484	-	13,484	2.8	375
	15	C & E	Landsale Weigh-house ext., plates etc.	T.E.			7,557	10	756	-	-	8,313	-	8,313	3.2	264
	16	C	Locomotive Shed.	T.E.	To accommodate four steam locomotives.		12,000	10	1,200	-	-	13,200	-	13,200	2½	330

SCHEDULE OF NEW EXPENDITURE  
(Including Capital and Major Revenue Expenditure)

WEST MIDLANDS DIVISION  
NO. 1 (NORTH STAFFS) AREA  
CHATTERLEY WHITFIELD COLLIERY

COAL PREPARATION SCHEME

Section	Sub Section	Branch	Description	Basis of Estimate	No. of items required, length of Roadway or Shaft, etc. (with Plan Ref.).	Size or Capacity	Estimated Cost (before Contingencies)	Allowance for Contingencies		Fees		Total Estimated Expenditure	Allocation of Total Expenditure		Depreciation	
								%	Amount	%	Amount		Revenue	Capital	%	Estimated Annual Charge
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
01	12	C	<u>GENERAL EXPENSES</u> Site Engineer, staff etc.	T.E.			5,520	10	552	-	-	6,072	-	6,072	2½	152
			TOTAL SECTION 01				5,520	10	552	-	-	6,072	-	6,072	2½	152
02			<u>SITE PREPARATION</u>													
	11	C	Site office and services	T.E.			1,000	10	100	-	-	1,100	-	1,100	2½	27
	12	E	Power supplies to Contractor	T.E.			3,000	10	300	-	-	3,300	2,200	1,100	2½	28
	13	C	Test boreholes.	T.E.			2,000	10	200	-	-	2,200	-	2,200	2½	55
			TOTAL SECTION 02				6,000	10	600	-	-	6,600	2,200	4,400	2½	110
09			<u>POWER &amp; HEAT SUPPLY</u>													
	22	E	Sub. Stn. Equipment & Surface Cables.	T.E.			6,250	10	625	-	-	6,875	-	6,875	5	344
	25	E	Space Heating.	T.E.			3,138	10	314	-	-	3,452	-	3,452	5	172
			TOTAL SECTION 09				9,388	10	939	-	-	10,327	-	10,327	5	516
13			<u>SURFACE LAYOUT</u>													
	11	C	Demolitions-Briquette Plant etc.	T.E.			8,000	10	800	-	-	8,800	8,800	-	-	-
	12	C	Demolitions-Loco Shed.	T.E.			2,000	10	200	-	-	2,200	2,200	-	-	-
	13	C	Drainage.	T.E.			12,880	10	1,288	-	-	14,168	-	14,168	2½	354
	14	C	Earthworks-Exchange Sidings	T.E.			3,975	10	397	-	-	4,372	-	4,372	2½	109
	15	C	Earthworks-Coal Prep. Sidings Landsale Wharf etc.	T.E.			14,610	10	1,461	-	-	16,071	-	16,071	2½	402
	16	C & E	Roadways & Roadways Lighting	T.E.			4,200	10	420	-	-	4,620	-	4,620	2.9	135
	17	C	Fire Ring Main etc.	T.E.			4,500	10	450	-	-	4,950	-	4,950	2½	124
	18	C	Fencing.	T.E.	Approx. 1270 yds. & 2 gates.		2,560	10	256	-	-	2,816	-	2,816	2½	70
	19	C	Settling Pond, Pumphouse etc.	T.E.			19,500	10	1,950	-	-	21,450	-	21,450	2½	536
	20	C & E	Reservoir, Pumphouse etc.	T.E.			14,468	10	1,447	-	-	15,915	-	15,915	3.6	576
			TOTAL SECTION 13				86,693	10	8,669	-	-	95,362	11,000	84,362	2.7	2,306
14			<u>MATERIALS YARD &amp; SIDINGS.</u>													
	11	C	Exchange Sidings.	T.E.	Approx. 2750 yds. trackwork		29,650	10	2,965	-	-	32,615	-	32,615	2½	815
	12	C	Coal Prep. Plant Sidings etc.	T.E.	Approx. 3550 yds. new trackwork		54,270	10	5,427	-	-	59,697	-	59,697	2½	1,492
	13	C	Landsale Wharf Surfacing.	T.E.	1430 yds. relay.		6,940	10	694	-	-	7,634	-	7,634	2½	191
	14	C & E	Wagon Weigh-houses & machines	T.E.	2		12,258	10	1,226	-	-	13,484	-	13,484	2.8	375
	15	C & E	Landsale Weigh-house ext., plates etc.	T.E.			7,557	10	756	-	-	8,313	-	8,313	3.2	264
	16	C	Locomotive Shed.	T.E.	To accommodate four steam locomotives.		12,000	10	1,200	-	-	13,200	-	13,200	2½	330
	17	C	Pay Office & Paint Store.	T.E.			1,500	10	150	-	-	1,650	-	1,650	2½	41
	18	C	Temporary Landsale Wharf.	T.E.			4,400	10	440	-	-	4,840	-	4,840	2½	124
	19	E	Exchange Sidings Lighting.	T.E.			6,000	10	600	-	-	6,600	-	6,600	5	330
	20	E	Landsale Wharf & C. Prep. Sidings Lighting.	T.E.			5,700	10	570	-	-	6,270	-	6,270	5	314
	21	C	Euclid & Bulldozer (Plant Pool)	T.E.	One of each		17,850	5	893	-	-	18,743	-	18,743	-	-

NATIONAL COAL BOARD

APPENDIX IV TO F.631/R (1957)

SHEET 2 of 2 SHEETS

Effective Date of Estimate January, 1961.

THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

SCHEDULE OF NEW EXPENDITURE

(Including Capital and Major Revenue Expenditure)

WEST MIDLANDS DIVISION

NO. 1 (NORTH STAFFS) AREA

CHATTERLEY WHITFIELD COLLIERY

COAL PREPARATION SCHEME

Section	Sub Section	Branch	Description	Basis of Estimate	No. of items required, length of Roadway or Shaft, etc. (with Plan Ref).	Size or Capacity	Estimated Cost (before Contingencies)	Allowance for Contingencies		Fees		Total Estimated Expenditure	Allocation of Total Expenditure		Depreciation	
								%	Amount	%	Amount		Revenue	Capital	%	Estimated Annual Charge.
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
	22	C	Connections to British Railways.	T.E.			30,000	10	3,000	-	-	33,000	-	33,000	2½	825
			TOTAL SECTION 14				188,125	9½	17,921	-	-	206,046	-	206,046	2½	5,098
			Less Plant Pool Equipment.									18,743	-	18,743		
												187,303	-	187,303	2.7	5,098
15			<u>PREPARATION PLANT</u>													
	11	C	R.O.M. Conveyors, gantries, foundations etc.	T.E.			116,100	10	11,610	-	-	127,710	-	127,710	4.8	6,165
	12	C & E	Foreign Coal Tippler, gantry etc.	T.E.			26,400	10	2,640	-	-	29,040	-	29,040	4.3	1,236
	13	C	Main Plant & Landsale Plant foundations, cladding etc.	T.E.			166,825	10	16,682	-	-	183,507	-	183,507	2½	4,587
	14	E	Coal Prep. Plant & Landsale Wharf Equipment.	T.E.			572,117	10	57,212	-	-	629,329	-	629,329	5	31,467
	15	E	Middle Pit Conveyor Gantries etc.	T.E.			14,380	10	1,438	-	-	15,818	1,221	14,597	2½	365
	16	E	Middle Pit Conveyors etc.	T.E.			21,370	10	2,137	-	-	23,507	-	23,507	5	1,175
	17	C & E	R.O.M. Dirt Bunker & Equip.	T.E.	1	180 tons Capacity	10,000	10	1,000	-	-	11,000	-	11,000	3.8	413
	18	E	R.O.M. Dirt Feeders, Conveyors etc.	T.E.			30,408	10	3,041	-	-	33,449	-	33,449	5	1,672
			TOTAL SECTION 15				957,600	10	95,760	-	-	1,053,360	1,221	1,052,139	4½	47,080
			TOTALS ALL SECTIONS				1,253,326	9.9	124,441	-	-	1,377,767	14,421	1,363,346	4.1	55,262
			Less Plant Pool Equipment.									18,743	-	18,743		
			TOTAL EXPENDITURE TO BE APPROVED.									1,359,024	14,421	1,344,603	4.1	55,262

Section	Sub Section	Branch	Description	Basis of Estimate	No. of items required, length of Roadway or Shaft, etc. (with Plan Ref).	Size or Capacity	Estimated Cost (before Contingencies)	Allowance for Contingencies		Fees		Total Estimated Expenditure	Allocation of Total Expenditure		Depreciation	
								%	Amount	%	Amount		Revenue	Capital	%	Estimated Annual Charge.
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)
	22	C	Connections to British Railways.	T.E.			30,000	10	3,000	-	-	33,000	-	33,000	2½	825
			TOTAL SECTION 14.				188,125	9½	17,921	-	-	206,046	-	206,046	2½	5,098
			Less Plant Pool Equipment.									18,743	-	18,743		
												187,303	-	187,303	2.7	5,098
15			<u>PREPARATION PLANT</u>													
	11	C	R.O.M. Conveyors, gantries, foundations etc.	T.E.			116,100	10	11,610	-	-	127,710	-	127,710	4.8	6,165
	12	C & E	Foreign Coal Tippler, gantry etc.	T.E.			26,400	10	2,640	-	-	29,040	-	29,040	4.3	1,236
	13	C	Main Plant & Landsale Plant foundations, cladding etc.	T.E.			166,825	10	16,682	-	-	183,507	-	183,507	2½	4,587
	14	E	Coal Prep. Plant & Landsale Wharf Equipment.	T.E.			572,117	10	57,212	-	-	629,329	-	629,329	5	31,667
	15	E	Middle Pit Conveyor Gantries etc.	T.E.			14,380	10	1,438	-	-	15,818	1,221	14,597	2½	365
	16	E	Middle Pit Conveyors etc.	T.E.			21,370	10	2,137	-	-	23,507	-	23,507	5	1,175
	17	C & E	R.O.M. Dirt Bunker & Equip.	T.E.	1	180 tons Capacity	10,000	10	1,000	-	-	11,000	-	11,000	3.8	413
	18	E	R.O.M. Dirt Feeders, Conveyors etc.	T.E.			30,408	10	3,041	-	-	33,449	-	33,449	5	1,672
			TOTAL SECTION 15				957,600	10	95,760	-	-	1,053,360	1,221	1,052,139	4½	47,080
			TOTALS ALL SECTIONS				1,253,326	9.9	124,441	-	-	1,377,767	14,421	1,363,346	4.1	55,262
			Less Plant Pool Equipment.									18,743	-	18,743		
			TOTAL EXPENDITURE TO BE APPROVED.									1,359,024	14,421	1,344,603	4.1	55,262

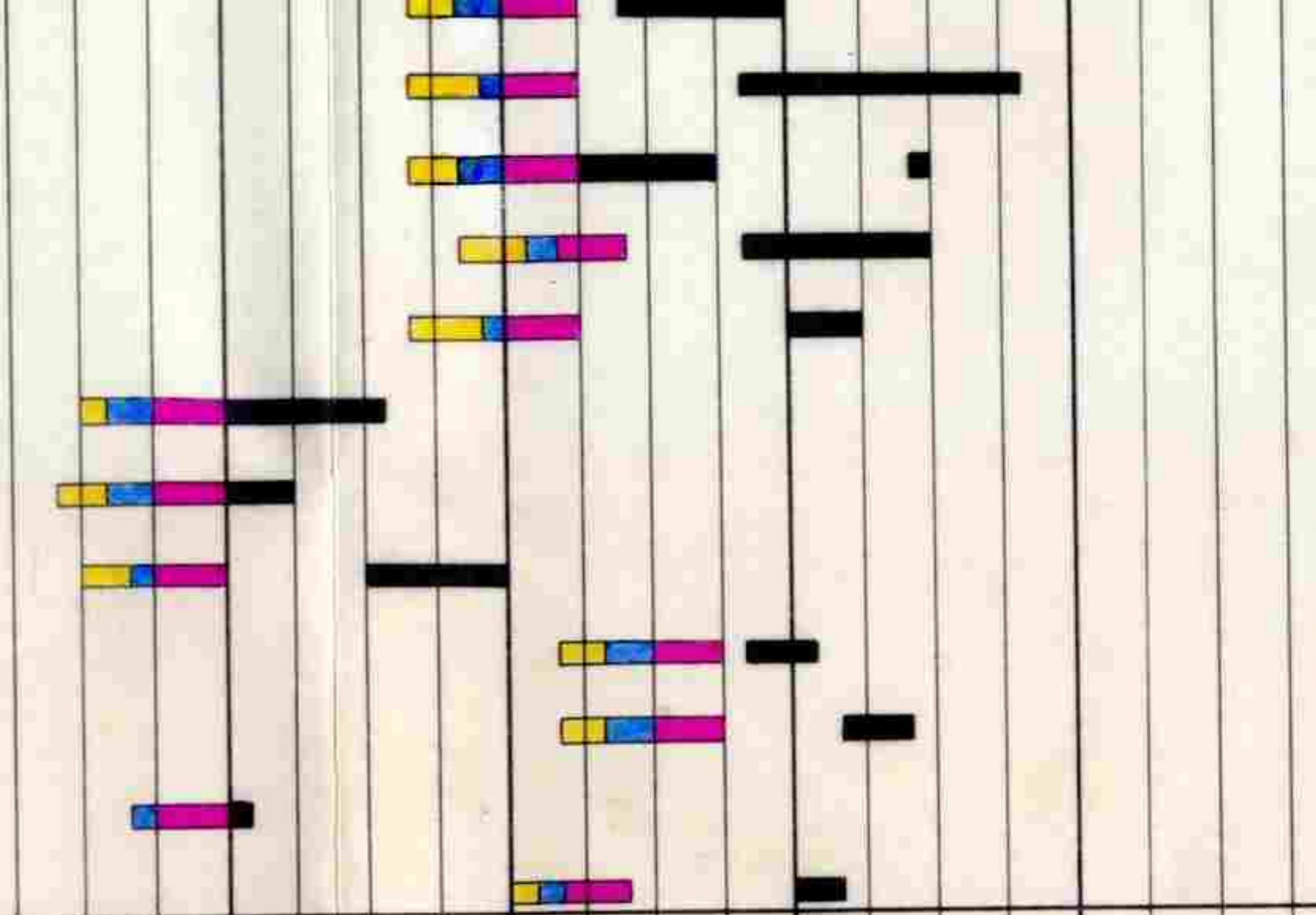
NATIONAL COAL BOARD.

SECTIONAL PROGRESS SCHEDULE.

APPENDIX VI  
WEST MIDLANDS DIVISION  
No. 1 (NORTH STAFFS.) AREA.  
CHATTERLEY WHITFIELD COLLIERY.  
COAL PREPARATION SCHEME.

SECTION	SUB-SECTION	BRANCH	DESCRIPTION	1961	1962	1963	1964	1965
O2			<u>SITE PREPARATION.</u>					
	11	C	TEMPORARY BUILDING AND SERVICES.	■	■			
	12	E	POWER SUPPLIES TO CONTRACTOR.	■	■	■	■	
	13	C	TEST BOREHOLES.	■				
O9			<u>POWER &amp; HEAT SUPPLY.</u>					
	22	E	SUB-STATION EQUIPMENT AND SURFACE CABLES.		■	■		
	25	E	SPACE HEATING.			■	■	
I3			<u>SURFACE LAYOUT.</u>					
	11	C	DEMOLITIONS - BRIQUETTE PLANT, ETC.	■	■			
	12	C	- do - - LOCO SHED.				■	
	13	C	DRAINAGE.		■	■		
	14	C	EARTHWORKS - EXCHANGE SIDINGS.		■	■		
	15	C	- do - - COAL-PREP-PLANT, COAL STOCKING SITE, LANDSALE WHARF SIDINGS.		■	■	■	
	16	C & E.	ROADWAYS AND ROADWAYS LIGHTING.		■	■		
	17	C	FIRE RING MAIN.		■	■		
	18	C	FENCING.			■	■	
	19	C	SETTLING POND, PUMPHOUSE ETC.			■	■	
	20	C & E.	RESERVOIR, PUMPHOUSE EXTENSIONS ETC.			■	■	
I4			<u>MATERIALS YARD &amp; SIDINGS.</u>					
	11	C	SIDINGS - EXCHANGE.			■	■	
	12	C	- do - - COAL PREP PLANT & COAL STOCKING SITE.			■	■	
	13	C	LANDSALE WHARF SURFACING.			■	■	
	14	C & E	WAGON WEIGH-HOUSES AND WEIGH MACHINES.			■	■	
	15	C & E	LANDSALE AMENITIES BUILDING; EXTENSION TO WEIGH-HOUSE, WEIGH MACHINE, ETC.			■	■	
	16	C	LOCOMOTIVE SHED.	■	■			
	17	C	PAY OFFICE AND PAINT STORE.	■	■			
	18	C	TEMPORARY LANDSALE WHARF.	■	■			
	19	E	LIGHTING - EXCHANGE SIDINGS			■	■	

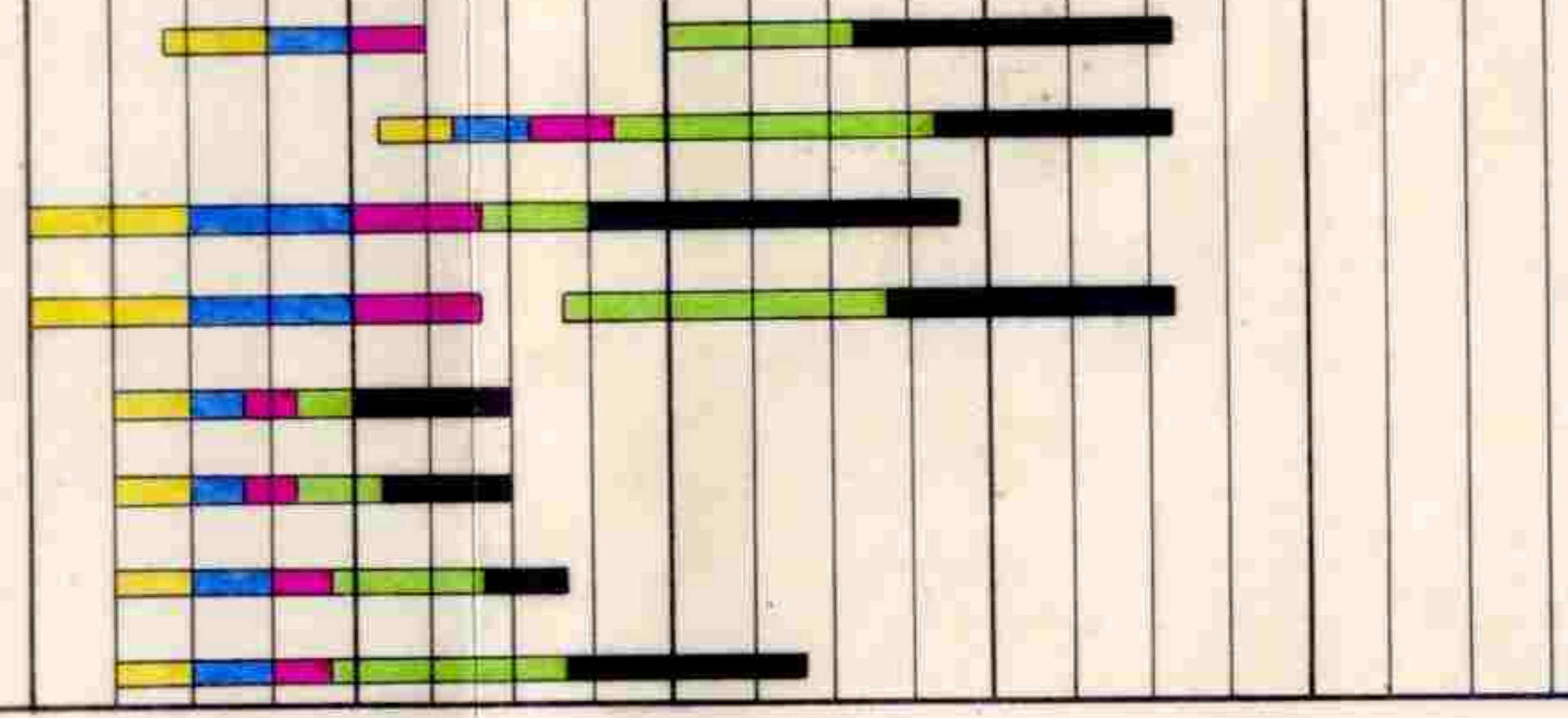
11	C	SIDINGS - EXCHANGE.
12	C	- do - - - COAL PREP PLANT & COAL STOCKING SITE.
13	C	LANDSALE WHARF SURFACING.
14	C&E	WAGON WEIGH - HOUSES AND WEIGH MACHINES.
15	C&E	LANDSALE AMENITIES BUILDING; EXTENSION TO WEIGH - HOUSE, WEIGH MACHINE, ETC.
16	C	LOCOMOTIVE SHED.
17	C	PAY OFFICE AND PAINT STORE.
18	C	TEMPORARY LANDSALE WHARF.
19	E	LIGHTING - EXCHANGE SIDINGS.
20	E	- do - - - COAL PREP PLANT SIDINGS & LANDSALE WHARF.
21	C	EUCLID & BULLDOZER.
22	C	CONNECTIONS TO BRITISH RAILWAYS.



15

PREPARATION PLANT.

11	C	R.O.M. CONVEYORS, GANTRIES, SUPPORTING STRUCTURE, FOUNDATIONS, ETC.
12	C&E	FOREIGN COAL TIPLER, CONVEYOR GANTRY, FOUNDATIONS, ETC.
13	C	MAIN PLANT CONCRETE WORK, FOUNDATIONS, CLADDING, ETC.
14	E	COAL PREP PLANT & LANDSALE WHARF EQUIPMENT.
15	E	MIDDLE PIT SURFACE CONVEYOR GANTRIES ETC.
16	E	MIDDLE PIT SURFACE CONVEYORS, ETC.
17	C&E	R.O.M. DIRT BUNKER AND EQUIPMENT.
18	E	R.O.M. DIRT FEEDERS, CONVEYORS, ELECTRICS, ETC.



REFERENCE.

PLANNING	PERIOD	COLOURED	YELLOW.
TENDERING	"	"	BLUE.
STAGE III	"	"	RED.
MANUFACTURING	"	"	GREEN.
CONSTRUCTION	"	"	BLACK.

NATIONAL COAL BOARD			
WEST MIDLANDS DIVISION No 1 NORTH STAFFS AREA			
CHATTERLEY WHITFIELD COLLIERY.			
Coal Preparation Scheme.			
DRAWN BY TRACED BY CHECKED BY PASSED BY	AAL. <i>AW</i>	SCALE	AREA PLANNING O
		DATE Feb. 1961.	DRAWING No 1641/50.



NATIONAL COAL BOARDWEST MIDLANDS DIVISIONNO.1 (NORTH STAFFS) AREA.Chatterley Whitfield Colliery  
Coal Preparation SchemePhasing of Expenditure Including Estimate of Interest  
on Capital Expenditure Payable during Reconstruction.

Financial Year	Estimated Expenditure During the Year		Cumulative Expenditure on Capital A/C up to end of previous year	Interest on (c) at 3%	Interest on (d) at 6% per annum	Total Interest for Year
	On Revenue Account	On Capital Account				
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1961	-	2,200		66	-	66
1962	10,751	121,795	2,200	3,654	132	3,786
1963	730	589,836	123,995	17,695	7,439	25,134
1964	2,940	630,772	713,831	18,923	42,830	61,753
Total new Expenditure per Appendix IV	14,421	1,344,603	Total Interest on Capital during Reconstruction			90,739

NATIONAL COAL BOARDWEST MIDLANDS DIVISIONNO.1 (NORTH STAFFS) AREAChatterley Whitfield CollieryCoal Preparation SchemeCoal Preparation Plant OnlyPhasing of Expenditure Including Estimate of Interest  
on Capital Expenditure Payable during Reconstruction.

Financial Year	Estimated Expenditure During the Year.		Cumulative Expenditure on Capital A/C up to end of previous year	Interest on (c) at 3%	Interest on (d) at 6% per annum	Total Interest for Year
	On Revenue Account	On Capital Account				
(a)	(b)	(c)	(d)	(e)	(f)	(g)
1961	-	2,200	-	66	-	66
1962	730	40,400	2,200	1,212	132	1,344
1963	730	436,407	42,600	13,092	2,556	15,648
1964	740	542,571	479,007	16,277	28,740	45,017
Total new Expenditure per Appendix IV	2,200	1,021,578	Total Interest on Capital during Reconstruction			62,075

NATIONAL COAL BOARD

THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

TOTAL INVESTMENT

West Midlands Division

No.1 (North Staffs) Area  
Chatterley Whitfield Colliery  
Coal Preparation Scheme

	£
1. New Capital Expenditure (as per Appendix IV)	1,344,603
2. Interest on Capital during Reconstruction (as per Appendix VII)	90,739
3. Net loss on Interim Production (as per Appendix VIII)	Not applicable
4. Working Capital Required.	
(a) Before Reconstruction	
(b) Additional Working Capital required as a result of reconstruction	Not applicable
5. Value of Existing Undertaking	Not applicable
6. Written down value of assets to be transferred from another colliery etc. and used for the purpose of this project.	18,743
	<hr/>
	£1,454,085
 <u>LESS</u>	
7. Residual Value of Plant, Buildings, Equipment etc. becoming redundant as a result of the project.	-
	<hr/>
8. Net Capital Investment	1,454,085
9. Major Revenue Expenditure	14,421

NATIONAL COAL BOARD

THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

TOTAL INVESTMENT

West Midlands Division

No.1 (North Staffs) Area  
Chatterley Whitfield Colliery  
Coal Preparation Scheme  
Coal Preparation Plant Only

1. New Capital Expenditure (as per Appendix IV)	£ 1,021,578
2. Interest on Capital during Reconstruction (as per Appendix VII▲)	62,075
3. Net loss on Interim Production (as per Appendix VIII)	Not applicable
4. Working Capital Required	
(a) Before Reconstruction	
(b) Additional Working Capital required as a result of reconstruction.	Not applicable
5. Value of Existing Undertaking	Not applicable
6. Written down value of assets to be transferred from another colliery etc. and used for the purpose of this project.	Nil
	<hr/>
	£1,083,653
<u>LESS</u>	
7. Residual Value of Plant, Buildings, Equipment etc. becoming redundant as a result of the project.	-
	<hr/>
8. Net Capital Investment	£1,083,653
	<hr/>
9. Major Revenue Expenditure	2,200
	<hr/>

NATIONAL COAL BOARD

THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

ANALYSIS OF PROCEEDS

Appendix X to F.631/R(1957)

West Midlands Division

North Staffs Area

Chatterley-Whitfield Project

Seam (s)	Rank	Grade	Size	Method of Prepn.	Analysis "As Received Basis"						Market and House Coal Group	Total Saleable Output %	Saleable Tonnage (Annual) Tons	On Current Prices at 30th January, 1961.		Actual Realisation for year-ended 31st December, 1960.	
					M %	Ash %	V.M. %	F.C. %	C.V. B.Th.U	S %				Price Per Ton	Amount £	Price Per Ton	Amount £
<b>PRESENT RESULTS</b>																	
%	5/602	Best Coal	Over 4½"	H.C.	2.9	2.9	34.5	59.7	14240	1.56	Group 2 Domestic	4.05	23,947	136/11d	163,937	131/11.1d	157,965
Moss 31.6	5/602	Best Cobbles	4½" x 3"	H.C.	2.8	3.4	34.8	59.0	14290	2.40	Group 2 Domestic	1.44	8,519	136/ 4d	58,071	129/11.7d	55,363
Yard 18.1	602	House Coal	Over 4½"	H.C.	2.8	4.0	35.3	57.9	13740	2.25	Group 4 Dom/Ind.	13.55	80,054	116/ 9d	467,315	105/ 9.3d	423,382
Bellringer 9.1	602	House Cobbles	4½" x 3"	Wsd.	4.0	3.6	33.6	58.8	13470	1.38	Group 4 Dom/Ind.	6.68	39,469	118/ 4d	233,525	102/ 4.9d	202,102
Ten Feet 5.7	702	Steam Coal	Over 4½"	H.C.	4.8	3.0	34.1	58.1	13640	1.40	Industry	0.81	4,797	120/ 9d	28,962	113/ 9.7d	27,297
Bullhurst 26.7	602	No.1 House Nuts	3" x 1½"	Wsd.	4.1	4.7	33.6	57.6	13680	2.28	Group 5 Dom/Ind.	12.43	73,414	103/ 9d	380,835	98/ 4.4d	361,068
Brights 8.8	502	No.2 House Nuts	1½" x ¾"	Wsd.	6.0	4.8	34.0	55.2	13400	1.90	Gas/Industry	9.23	54,517	103/ 8d	282,580	99/ 2.6d	270,447
100.0	502	Washed Beans	¾" x ½"	Wsd.	6.4	5.3	33.5	54.8	13250	2.04	Gas/Industry	11.10	65,543	101/ 8d	333,177	97/ 3.6d	318,866
	5/602	Washed Gas Mixture	1½" - 0	Wsd.	8.3	5.2	32.9	53.6	12910	1.81	Industry	0.01	52	95/ 8d	249	88/ 5.5d	230
	602	1a Mixture	1½" - 0	Wsd.	5.4	4.6	34.2	55.8	13500	2.39	Industry	1.78	10,499	99/ 8d	52,320	95/ 2.7d	49,988
	602	Washed Smalls	½" - 0	Wsd.	10.4	6.1	31.8	51.7	12400	1.57	Coking /C.E.G.B./Ind.	18.72	110,549	90/ 4d	499,313	85/ 7.4d	473,226
	802	Untreated Smalls	1½" - 0	Untd.	3.4	17.7	31.0	47.9	11680	2.37	C.E.G.B.	1.14	6,738	78/ 8d	26,503	75/ 1.9d	25,322
	802	No.1 U/T Smalls	½" - 0	Untd.	4.8	22.0	30.9	42.3	11070	1.85	C.E.G.B.	13.08	77,242	71/ 8d	276,784	69/ 4.6d	267,954
	802	No.2 U/T Smalls	½" - 0	Untd.	4.2	14.6	32.3	48.9	12010	2.10	C.E.G.B.	0.36	2,120	80/ 8d	8,551	77/ 3.8d	8,196
	602	Untreated Smalls	3/16"-0	Untd.	8.3	18.7	29.2	44.4	10590	1.73	Colliery Consumption	5.32	31,437	69/ 8d	109,506	68/ 3.8d	107,387
		Wharf Smalls		Untd.							Group 7 Dom/Ind.	0.30	1,772	79/ 8d	7,058	80/ 1.8d	7,101
<b>TOTAL</b>											100.00	590,669	99/ 2d	2,928,686	93/ 3.8d	2755,894	
<b>FUTURE OUTPUT - EXISTING PLANT</b>																	
%	602	Best Coal	Over 4½"	H.C.	2.9	2.9	34.5	59.7	14240	1.56	Group 2 Domestic	7.4	55,182	136/11d	377,767		
Moss 50.6	602	Best Cobbles	4½" x 3"	H.C.	2.8	3.4	34.8	59.0	14290	2.40	Group 2 Domestic	3.2	23,862	136/ 4d	162,659		
Yard 8.0	802	Steam Coal	Over 4½"	H.S.	4.8	4.0	33.1	58.1	13320	0.7	Locomotive	2.2	16,405	111/ 8d	91,595		
Bellringer 16.0	602	House Coal	Over 4½"	H.C.	2.8	4.0	35.3	57.9	13740	2.25	Group 4 Dom/Ind.	10.1	75,316	116/ 9d	439,657		
Ten Feet 4.6	602	House Cobbles	4½" x 3"	H.C.	4.0	3.6	33.6	58.8	13470	1.38	Group 4 Dom/Ind.	4.6	34,302	118/ 4d	202,953		
Bullhurst 11.2	601	No.1 Wsd.Nuts	3" x 1½"	Wsd.	4.6	4.4	33.0	58.0	13480	1.5	Group 5 Dom/Ind.	11.8	87,993	103/11d	457,197		
Silver 9.6	601	No.2 Wsd.Nuts	1½" x ¾"	Wsd.	6.0	5.1	32.2	56.7	13180	1.5	Gas/Industry	6.4	47,725	102/ 8d	244,988		
100.0	601	Wsd.Beans	¾" x ½"	Wsd.	6.4	5.3	32.0	56.3	13100	1.5	Gas/Industry	14.2	105,889	101/ 8d	538,269		
	601	Smalls	½" - 0	Wsd.	10.3	6.6	30.2	52.9	12380	1.6	Coking/C.E.G.B./Ind.	10.4	77,553	91/ 4d	354,159		
	701	Smalls	½" - 0	Untd.	4.1	17.3	28.8	52.8	11540	1.03	C.E.G.B.	16.0	119,312	76/ 8d	457,363		
	601	Smalls	1½" - 0	Wsd.	5.4	4.6	34.2	55.8	13500	2.3	Industry	1.8	13,423	99/ 8d	66,891		
	701	Smalls	1½" - 0	Untd.	3.4	17.7	31.0	47.9	11680	2.3	C.E.G.B./Ind.	7.2	53,690	78/ 8d	211,181		
	602	Smalls	3/16"-0	Untd.	8.3	18.1	29.2	44.4	10630	1.79	C.E.G.B./Colliery Consumption.	4.7	35,048	69/ 8d	122,084		
<b>TOTAL</b>											100.0	745,700	99/11.4d	3,726,763			
<b>FUTURE OUTPUT - PROPOSED PLANT</b>																	
%	602	Best Coal	Over 8"	H.C.	2.9	2.9	34.5	59.7	14240	1.3	Group 2 Domestic	3.6	27,000	136/11d	184,838		
Moss 50.6	602	House Coal	Over 8"	H.C.	2.8	4.0	35.3	57.9	13740	1.8	Group 4 Dom/Ind.	5.2	39,000	116/ 9d	227,663		
Yard 8.0	802	Steam Coal	Over 8"	H.S.	4.8	4.0	33.1	58.1	13320	0.7	Locomotive	1.8	13,500	111/ 8d	75,375		
Bellringer 16.0	602	Best Cobbles	8" x 3"	Wsd.	3.2	3.4	33.8	59.6	13730	0.60	Group 2 Domestic	7.0	52,500	136/ 4d	357,875		
Ten Feet 4.6				D.M.													
Bullhurst 11.2	602	House Cobbles	8" x 3"	Wsd.	3.9	5.0	33.6	57.5	13630	1.8	Group 4 Dom/Ind.	10.0	75,000	118/ 4d	443,750		
Silver 9.6				D.M.													
100.0	601	Best Nuts	3" x 2"	Wsd.	3.9	3.6	33.5	59.0	13580	0.70	Group 4 Dom/Gas	4.2	31,500	109/ 7d	172,594		
	701	House Nuts	3" x 2"	Wsd.	4.6	4.5	33.5	57.4	13450	1.70	Group 5 Domestic	3.6	27,000	100/ 4d	135,450		
	601	Doubles	2" x 1"	Wsd.	5.6	5.2	32.3	56.9	13230	1.40	Gas	12.7	95,250	102/ 8d	488,950		
	601	Singles	1" x ½"	Wsd.	6.1	5.4	32.1	56.4	13150	1.40	Gas	13.8	103,500	102/ 8d	531,300		
	601	Coking Smalls	½" - 0	Wsd.													
	701	Dry Smalls	½" - 0	Untd.	9.0	4.2	31.2	55.6	12900	1.30	Coking	29.7	222,750	98/ 8d	1,098,900		
				Untd.	4.9	17.3	28.5	49.3	11430	1.03	C.E.G.B./Ind.						

Seam (s)	Rank	Grade	Size	Method of Prepn.	Analysis "As Received Basis"						Market and House Coal Group	Total Saleable Output %	Saleable Tonnage (Annual) Tons	On Current Prices at 30th January, 1961.		Actual Realisation for year-ended 31st December, 1960.	
					M %	Ash %	V.M. %	F.C. %	C.V. B.Th.U	S %				Price Per Ton	Amount £	Price Per Ton	Amount £
<b>PRESENT RESULTS</b>																	
%	5/602	Best Coal	Over 4½"	H.C.	2.9	2.9	34.5	59.7	14240	1.56	Group 2 Domestic	4.05	23,947	136/11d	163,937	131/11.1d	157,965
Moss 31.6	5/602	Best Cobbles	4½" x 3"	H.C.	2.8	3.4	34.8	59.0	14290	2.40	Group 2 Domestic	1.44	8,519	136/ 4d	58,071	129/11.7d	55,365
Yard 18.1	602	House Coal	Over 4½"	H.C.	2.8	4.0	35.3	57.9	13740	2.25	Group 4 Dom/Ind.	13.55	80,054	116/ 9d	467,315	105/ 9.3d	423,382
Bellringer 9.1	602	House Cobbles	4½" x 3"	Wsd.	4.0	3.6	33.6	58.8	13470	1.38	Group 4 Dom/Ind.	6.68	39,469	118/ 4d	233,525	102/ 4.9d	202,102
Ten Feet 5.7	702	Steam Coal	Over 4½"	H.C.	4.8	3.0	34.1	58.1	13640	1.40	Industry	0.81	4,757	120/ 9d	28,962	113/ 9.7d	27,297
Bullhurst 26.7	602	No.1 House Nuts	3" x 1½"	Wsd.	4.1	4.7	33.6	57.6	13680	2.28	Group 5 Dom/Ind.	12.43	73,414	103/ 9d	380,335	98/ 4.4d	361,068
Brights 8.8	502	No.2 House Nuts	1½" x ¾"	Wsd.	6.0	4.8	34.0	55.2	13400	1.90	Gas/Industry	9.23	54,517	103/ 8d	282,580	99/ 2.6d	270,447
	502	Washed Beans	¾" x ½"	Wsd.	6.4	5.3	33.5	54.8	13250	2.04	Gas/Industry	11.10	65,543	101/ 8d	333,177	97/ 3.6d	316,866
100.0	5/602	Washed Gas Mixture	1½" - 0	Wsd.	8.3	5.2	32.9	53.6	12910	1.81	Industry	0.01	52	95/ 8d	249	88/ 5.5d	230
	602	1a Mixture	1½" - 0	Wsd.	5.4	4.6	34.2	55.8	13500	2.39	Industry	1.78	10,499	99/ 8d	52,320	95/ 2.7d	49,988
	602	Washed Smalls	1½" - 0	Wsd.	10.4	6.1	31.8	51.7	12400	1.57	Coking /C.E.G.B./Ind.	18.72	110,549	90/ 4d	499,313	85/ 7.4d	473,226
	802	Untreated Smalls	1½" - 0	Untd.	3.4	17.7	31.0	47.9	11680	2.37	C.E.G.B.	1.14	6,738	78/ 8d	26,503	75/ 1.9d	25,322
	802	No.1 U/T Smalls	1½" - 0	Untd.	4.8	22.0	30.9	42.3	11070	1.85	C.E.G.B.	13.08	77,242	71/ 8d	276,784	69/ 4.6d	267,954
	802	No.2 U/T Smalls	1½" - 0	Untd.	4.2	14.6	32.3	48.9	12010	2.10	C.E.G.B.	0.36	2,120	80/ 8d	8,551	77/ 3.8d	8,196
	602	Untreated Smalls	3/16"-0	Untd.	8.3	18.7	29.2	44.4	10590	1.73	Colliery Consumption	5.32	31,437	69/ 8d	109,506	68/ 3.8d	107,387
		Wharf Smalls		Untd.							Group 7 Dom/Ind.	0.30	1,772	79/ 8d	7,058	80/ 1.8d	7,101
<b>TOTAL</b>												100.00	590,689	99/ 2d	2,928,686	93/ 3.8d	2755,894
<b>FUTURE OUTPUT - EXISTING PLANT</b>																	
%	602	Best Coal	Over 4½"	H.C.	2.9	2.9	34.5	59.7	14240	1.56	Group 2 Domestic	7.4	55,182	136/11d	377,767		
Moss 50.6	602	Best Cobbles	4½" x 3"	H.C.	2.8	3.4	34.8	59.0	14290	2.40	Group 2 Domestic	3.2	23,862	136/ 4d	162,659		
Yard 8.0	802	Steam Coal	Over 4½"	H.S.	4.8	4.0	33.1	58.1	13320	0.7	Locomotive	2.2	16,405	111/ 8d	91,595		
Bellringer 16.0	602	House Coal	Over 4½"	H.C.	2.8	4.0	35.3	57.9	13740	2.25	Group 4 Dom/Ind.	10.1	75,316	116/ 9d	439,657		
Ten Feet 4.6	602	House Cobbles	4½" x 3"	H.C.	4.0	3.6	33.6	58.8	13470	1.38	Group 4 Dom/Ind.	4.6	34,302	118/ 4d	202,953		
Bullhurst 11.2	601	No.1 Wsd.Nuts	3" x 1½"	Wsd.	4.0	4.4	33.0	58.0	13480	1.5	Group 5 Dom/Ind.	11.8	87,983	103/11d	457,197		
Silver 9.6	601	No.2 Wsd.Nuts	1½" x ¾"	Wsd.	6.0	5.1	32.2	56.7	13180	1.5	Gas/Industry	6.4	47,725	102/ 8d	244,988		
100.0	601	Wsd.Beans	¾" x ½"	Wsd.	6.4	5.3	32.0	56.3	13100	1.5	Gas/Industry	14.2	105,889	101/ 8d	538,269		
	601	Smalls	1½" - 0	Wsd.	10.3	6.6	30.2	52.9	12360	1.6	Coking/C.E.G.B./Ind.	10.4	77,553	91/ 4d	354,159		
	701	Smalls	1½" - 0	Untd.	4.1	17.3	28.8	52.8	11540	1.03	C.E.G.B.	16.0	119,312	76/ 8d	457,363		
	601	Smalls	1½" - 0	Wsd.	5.4	4.6	34.2	55.8	13500	2.3	Industry	1.8	13,423	99/ 8d	66,891		
	701	Smalls	1½" - 0	Untd.	3.4	17.7	31.0	47.9	11680	2.3	C.E.G.B./Ind.	7.2	53,690	78/ 8d	211,181		
	602	Smalls	3/16"-0	Untd.	8.3	18.1	29.2	44.4	10630	1.79	C.E.G.B/Colliery Consumption.	4.7	35,048	69/ 8d	122,084		
<b>TOTAL</b>												100.0	745,700	99/11.4d	3,726,763		
<b>FUTURE OUTPUT - PROPOSED PLANT</b>																	
%	602	Best Coal	Over 8"	H.C.	2.9	2.9	34.5	59.7	14240	1.3	Group 2 Domestic	3.6	27,000	136/11d	184,838		
Moss 50.6	602	House Coal	Over 8"	H.C.	2.8	4.0	35.3	57.9	13740	1.8	Group 4 Dom/Ind.	5.2	39,000	116/ 9d	227,663		
Yard 8.0	802	Steam Coal	Over 8"	H.S.	4.8	4.0	33.1	58.1	13320	0.7	Locomotive	1.8	13,500	111/ 8d	75,375		
Bellringer 16.0	602	Best Cobbles	8" x 3"	Wsd.	3.2	3.4	33.8	59.6	13730	0.60	Group 2 Domestic	7.0	52,500	136/ 4d	357,875		
Ten Feet 4.6				D.M.													
Bullhurst 11.2	602	House Cobbles	8" x 3"	Wsd.	3.9	5.0	33.6	57.5	13630	1.8	Group 4 Dom/Ind.	10.0	75,000	118/ 4d	443,750		
Silver 9.6				D.M.													
100.0	601	Best Nuts	3" x 2"	Wsd.	3.9	3.6	33.5	59.0	13580	0.70	Group 4 Dom/Gas	4.2	31,500	109/ 7d	172,594		
	701	House Nuts	3" x 2"	Wsd.	4.5	4.5	33.5	57.4	13450	1.70	Group 5 Domestic	3.6	27,000	100/ 4d	135,450		
	601	Doubles	2" x 1"	D.M.													
	601	Singles	1" x ½"	Wsd.	5.6	5.2	32.3	56.9	13230	1.40	Gas	12.7	95,250	102/ 8d	488,950		
	601	Coking Smalls	1½" - 0	D.M.													
	701	Dry Smalls	1½" - 0	Wsd.	9.0	4.2	31.2	55.6	12900	1.30	Coking	29.7	222,750	98/ 8d	1,098,900		
				Untd.	4.9	17.3	28.5	49.3	11430	1.03	C.E.G.B/Industry	8.4	63,000	76/ 8d	241,500		
<b>TOTAL</b>												100.0	750,000	105/ 6.6d	3,958,195		

Coking Factor 1.04

THE SUBMISSION OF CAPITAL PROJECTS FOR APPROVAL

WEST MIDLANDS DIVISION  
NO.1 (NORTH STAFFS) AREA  
CHATTERLEY WHITFIELD PROJECT

COAL PREPARATION PLANT.

	Proportion of Output Cleaned on Site.			Proportion of Output Uncleaned or Cleaned Elsewhere.			TOTAL.	
	Tonnage.	Price per ton.		Amount.	Tonnage	Price per ton.		Amount
	tons	s.	d.	£.	tons.	s.	d.	£
<u>Existing Conditions.</u>								
Saleable Output (App. X)	590,669	99	2	2,928,686	-	-	-	
Discard (.17.8..%)	128,007							
Operating Costs	718,676							
Wages.				54,877				
Materials.				6,320				
Power.				5,266				
Transport. (To slack washery 1½" x 0 in wagons)				10,157				
Others.				-				
				76,620				
Depreciation.				-				
Interest.				-				
				76,620				
Net Proceeds.				2,852,066				2,852,066
<u>Future Output - Existing Plant</u>								
Saleable Output	745,700	99	11.4	3,726,763	-	-	-	
Discard (.15.5..%)	136,780							
Operating Costs.	882,480							
Wages.				58,109				
Materials.				6,320				
Power.				5,266				
Transport. (To slack washery 1½" x 0 in wagons)				10,493				
Others.				-				
				80,188				
Depreciation.				-				
Interest				-				
				80,188				
Net Proceeds.				3,646,575				3,646,575
<u>Completed Development - Future Output in Proposed Plant.</u>								
Saleable Output (App. X)	750,000	105	6.6	3,958,195				
Discard (.15.0..%)	132,480							
Operating Costs.	882,480							
Wages. Supervisory (8)	7,630			44,920				
Operational (62)	37,290							
Materials.				10,980				
Power.				19,650				
Transport.				-				
Others.				-				
				75,550				





NATIONAL COAL BOARDThe Submission of Capital Projects for Approval

West Midlands Division,  
No.1 (North Staffs) Area.  
Chatterley Whitfield Colliery.  
Coal Preparation Scheme.

Surface Reorganisation - Estimate of Profitability.

Basis: 1960 Saleable Output: 590,669 tons and Current Prices.

	<u>Annual</u> <u>Amount</u> £
<b>A. <u>IMPROVEMENT IN PROCEEDS</u></b>	
1. Increase in proceeds that will result in same seam content being processed in New Plant (per Appendix XVII 99/11.4d to 105/6.6d.)	
590,669 tons @ 5/7.2d. =	165,387
2. Additional Saleable Output available as a result of reducing Discard from 15.5% to 15%. (per Appendix XVII)	
15.5% of 718,676 tons = 111,395	
15% of 718,676 tons = 107,801	
Additional Tonnage = 3,594 @ 105/6.6d	18,967
Total Improvement in Proceeds	£ 184,354 =====
<b>B. <u>SAVINGS AS A RESULT OF REORGANISATION</u></b>	
1. Reduction in manpower (282 - 157) = 125 Men	
<u>Wages</u>	
125 x 5 shifts x 49 weeks x 43/- (Current Surface E.M.S.) =	65,844
<u>ADD</u> 20% for Wages Charges	13,169
	79,013
2. Elimination of the need to transport 1½" - 0" size from screens to Slack Washery.	
Cost in 1960	10,157
Total Saving	£ 89,170 =====
<b>C. <u>ADDITIONAL COSTS AS A RESULT OF REORGANISATION</u></b>	
1. Increased Cost of Coal Preparation Materials Estimate on Completion adjusted to current output.	
Viz: £10,980 x $\frac{600}{750}$ = 8,784	
LESS 1960 Actual Cost = 6,320	2,464
2. Increase in Power, Heat & Light, Coal Preparation Plant. Estimate on Completion adjusted to current output.	
Viz: £19650 x $\frac{600}{750}$ = 15,720	
LESS 1960 Actual Cost = 5,266	10,454
C/fwd.	12,918

C.	continued.....		12,918
	3. Depreciation on New Expenditure. As per Estimate in Appendix IV		55,262
	4. Interest on Additional Capital Investment. (Appendix IX)		
	6% on £1,454,085	=	87,245
	Amortisation of Capitalised Interest at 3% (see Appendix VII)	=	<u>2,722</u>
			<u>89,967</u>
	Total Additional Costs		£ <u>158,147</u> =====

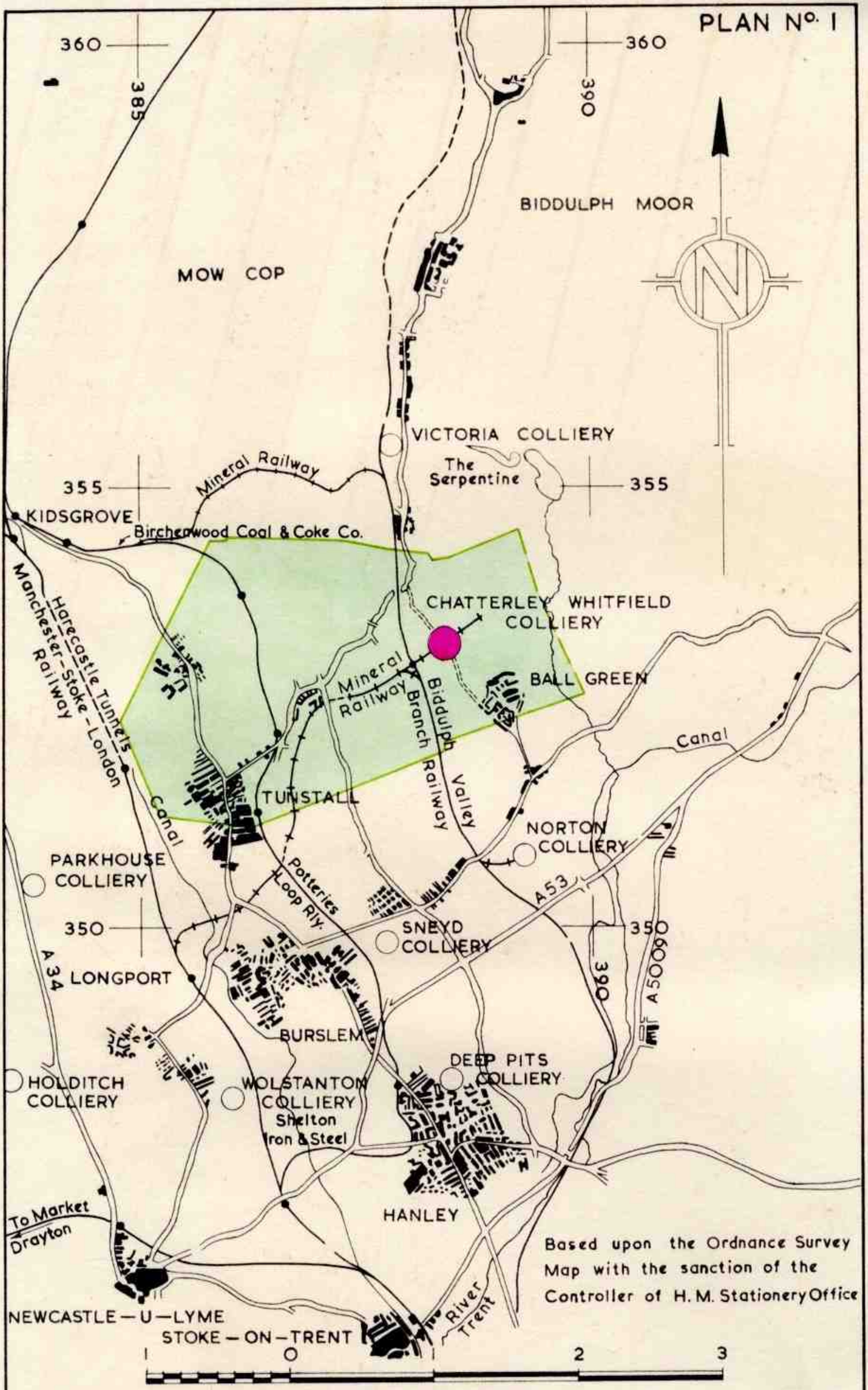
D.	<u>SUMMARY OF B &amp; C</u>	<u>Annual Amount</u>	<u>Per Ton s. d.</u>
	Additional Costs, including Depreciation and Interest.	158,147	5 4.3
	<u>LESS</u> Savings in Wages & Transport	<u>89,170</u>	<u>3 0.2</u>
	NET ADDITIONAL COSTS AS A RESULT OF THE SCHEME.	£ <u>68,977</u> =====	<u>2 4.1</u> =====

E.	<u>PROFITABILITY</u>		
	Improvement in Proceeds (para. A)	184,354	6 2.9
	<u>LESS</u> Net Additional Costs (para. D)	<u>68,977</u>	<u>2 4.1</u>
	Additional Profitability	£ <u>115,377</u> =====	<u>3 10.8</u> =====

Yield on Capital Invested      7.93%

AREA PLANNING BRANCH

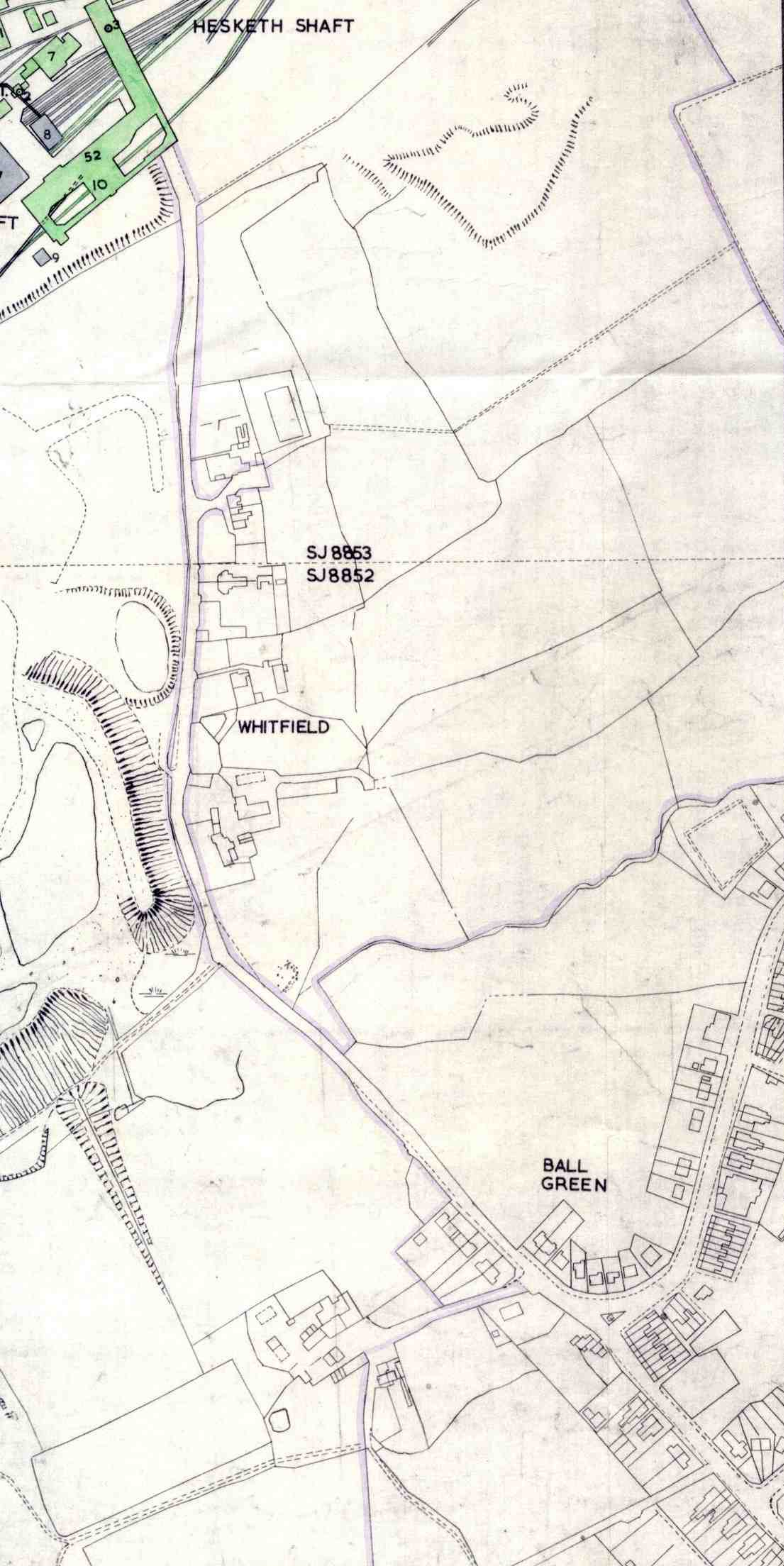
March, 1961.



Based upon the Ordnance Survey Map with the sanction of the Controller of H. M. Stationery Office

**NATIONAL COAL BOARD**  
 WEST MIDLANDS DIVISION No.1 NORTH STAFFS: AREA  
**CHATTERLEY WHITFIELD COLLIERY**  
**LOCATION PLAN**

DRAWN BY	A.A.L.	SCALE	AREA PLANNING OFF DRAWING No.
TRACED BY	A.L.	1-63360	
CHECKED BY	A.A.L.	DATE	<b>1192/51</b>
PASSED BY	G.E.H.	NOV. 1958	



HESKETH SHAFT

SJ8853  
SJ8852

WHITFIELD

BALL GREEN

- 39 WEIGH M/C (SIDINGS)
- 40 RESCUE STATION
- 41 OFFICES (COLLIERY)
- 42 TUB REPAIRS
- 43 HESKETH WINDER HOUSE
- 44 INSTITUTE WINDER HOUSE
- 45 MIDDLE PIT WINDER HOUSE
- 46 WINSTANLEY WINDER HOUSE
- 47 OLD SAWMILL & SUB STATION
- 48 RESERVOIR
- 49 MARSHALLING SIDINGS
- 50 SETTLING POND
- 51 TRACK TO OUTLYING WHARVES
- 52 HESKETH HEAPSTEAD BUILDING
- 53 BOILER FUEL CONVEYOR
- 54 COOLING TOWERS
- 55 PAY OFFICE
- 56 PUMP HOUSE

EXISTING BUILDINGS ETC. TO BE RETAINED GREEN

EXISTING BUILDINGS DISUSED/DEMOLISHED, GREY

N. C. B. FREEHOLD BOUNDARY

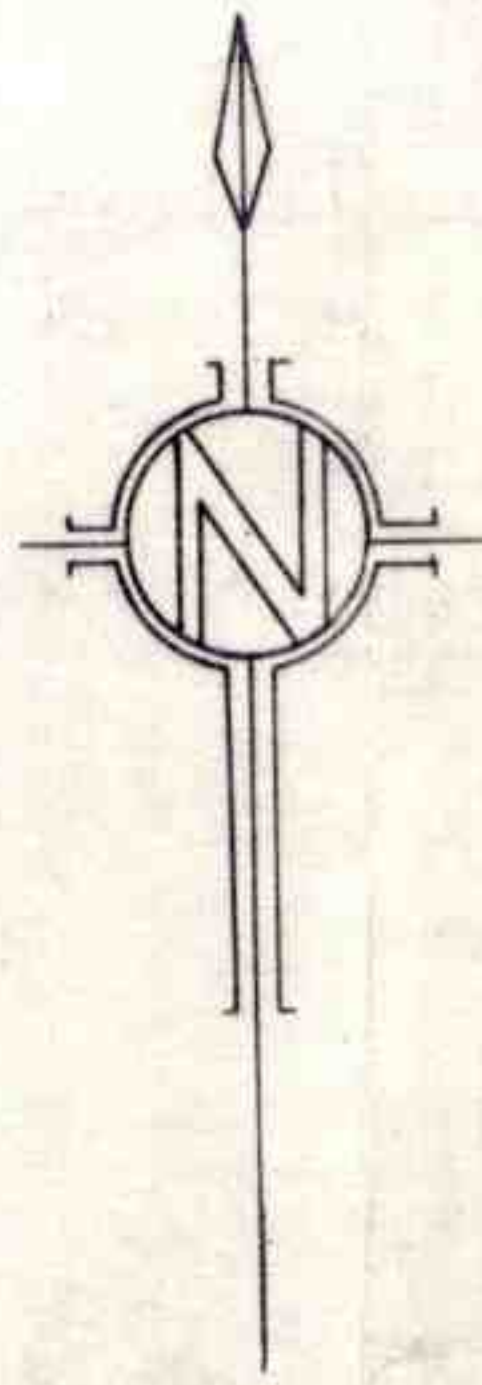
NATIONAL COAL BOARD

NATIONAL COAL BOARD  
WEST MIDLANDS DIVISION No. 1 NORTH STAFFS. AREA  
**CHATTERLEY WHITFIELD COLLIERY**  
EXISTING SURFACE LAYOUT

DRAWN BY TRACED BY CHECKED BY PASSED BY	J. B.	SCALE 1/2500	MECH. ENG. D.O
		DATE 23.10.59	

REFERENCE KEY

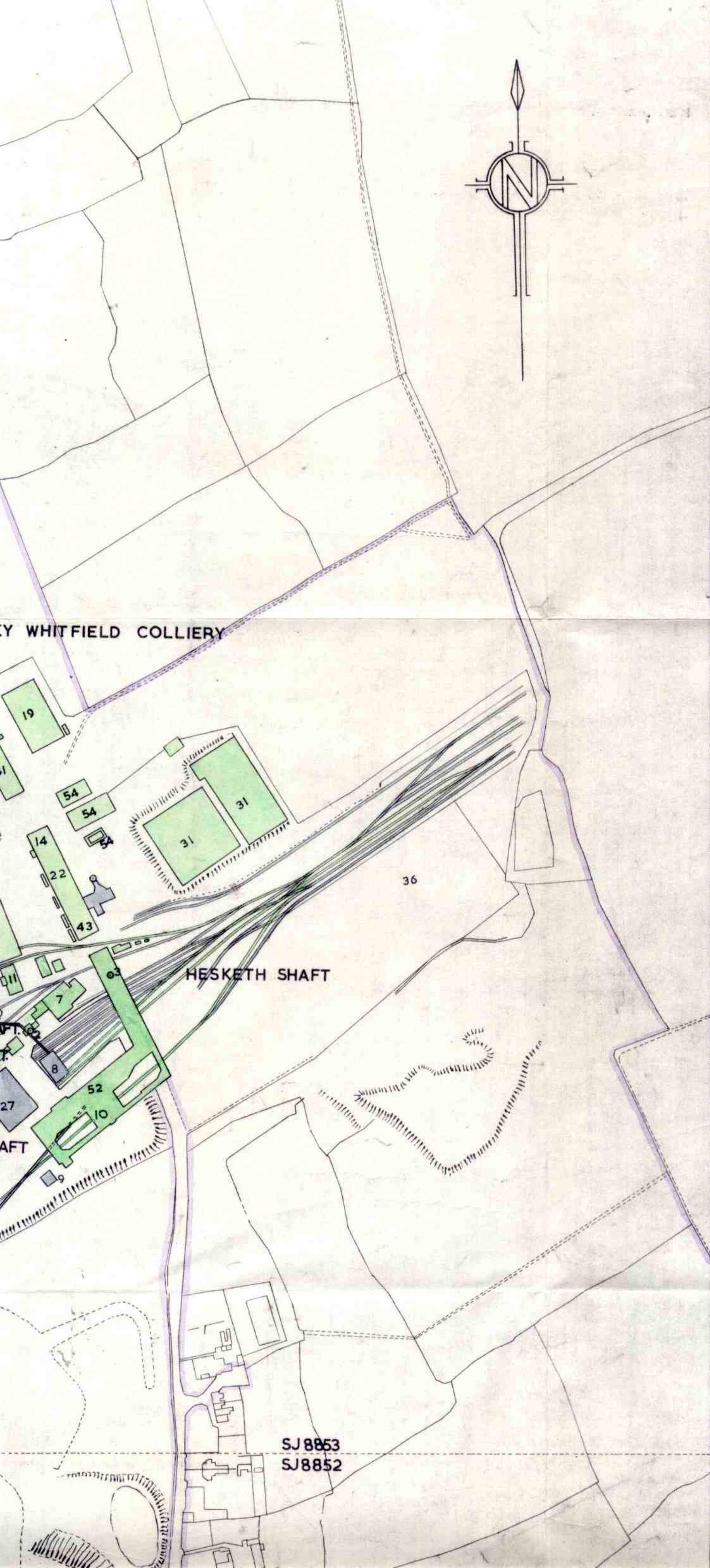
- 1 INSTITUTE SHAFT
- 2 PLATT SHAFT
- 3 HESKETH SHAFT
- 4 MIDDLE SHAFT
- 5 WINSTANLEY SHAFT
- 6 STOCKYARD
- 7 PLATT WINDER HOUSE
- 8 DEDUSTING PLANT
- 9 OLD SAWMILL
- 10 MINE CAR REPAIR SHOP
- 11 FAN HOUSE PLATT
- 12 FAN HOUSE WINSTANLEY
- 13 WALKWAY
- 14 COMPRESSOR HOUSE
- 15 CANTEEN
- 16 PIT HEAD BATHS
- 17 LAMPHOUSE
- 18 GENERAL OFFICES (AREA)
- 19 GARAGE
- 20 STORES
- 21 OLD BRIQUETTE PLANT
- 22 POWER HOUSE
- 23 BOILER HOUSE
- 24 R.O.M. DIRT CONVEYOR,
- 25 LOCO SHED
- 26 WORKSHOP
- 27 COAL PREP<sup>m</sup> PLANT
- 28 LANDSALE WHARF
- 29 SLACK WASHERY
- 30 METHANE DRAINAGE PLANT
- 31 COOLING POND
- 32 EXPLOSIVE STORE
- 33 LANDSALES WEIGHBRIDGES
- 34 WAGON REPAIRS
- 35 MCLANE PLANT
- 36 COAL STOCKING AREA
- 37 M.E.B. SUB STATION
- 38 CAR PARK
- 39 WEIGH M/C (SIDINGS)
- 40 RESCUE STATION
- 41 OFFICES (COLLIERY)
- 42 TUB REPAIRS
- 43 HESKETH WINDER HOUSE
- 44 INSTITUTE WINDER HOUSE
- 45 MIDDLE PIT WINDER HOUSE
- 46 WINSTANLEY WINDER HOUSE
- 47 OLD SAWMILL & SUB STATION
- 48 RESERVOIR
- 49 MARSHALLING SIDINGS
- 50 SETTLING POND
- 51 TRACK TO OUTLYING WHARVES
- 52 HESKETH HEAPSTEAD BUILDING
- 53 BOILER FUEL CONVEYOR
- 54 COOLING TOWERS
- 55 PAY OFFICE
- 56 PUMP HOUSE



Y WHITFIELD COLLIERY

HESKETH SHAFT

SJ8853  
SJ8852





PLATT SHAFT  
INSTITUTE SHAFT  
MIDDLE SHAFT

WINSTANLEY SHAFT

WELL HEATH

TO STOKE

BIDDULPH VALLEY BRANCH LINE  
BRITISH RAILWAYS

CONGLETON

TO CONGLETON

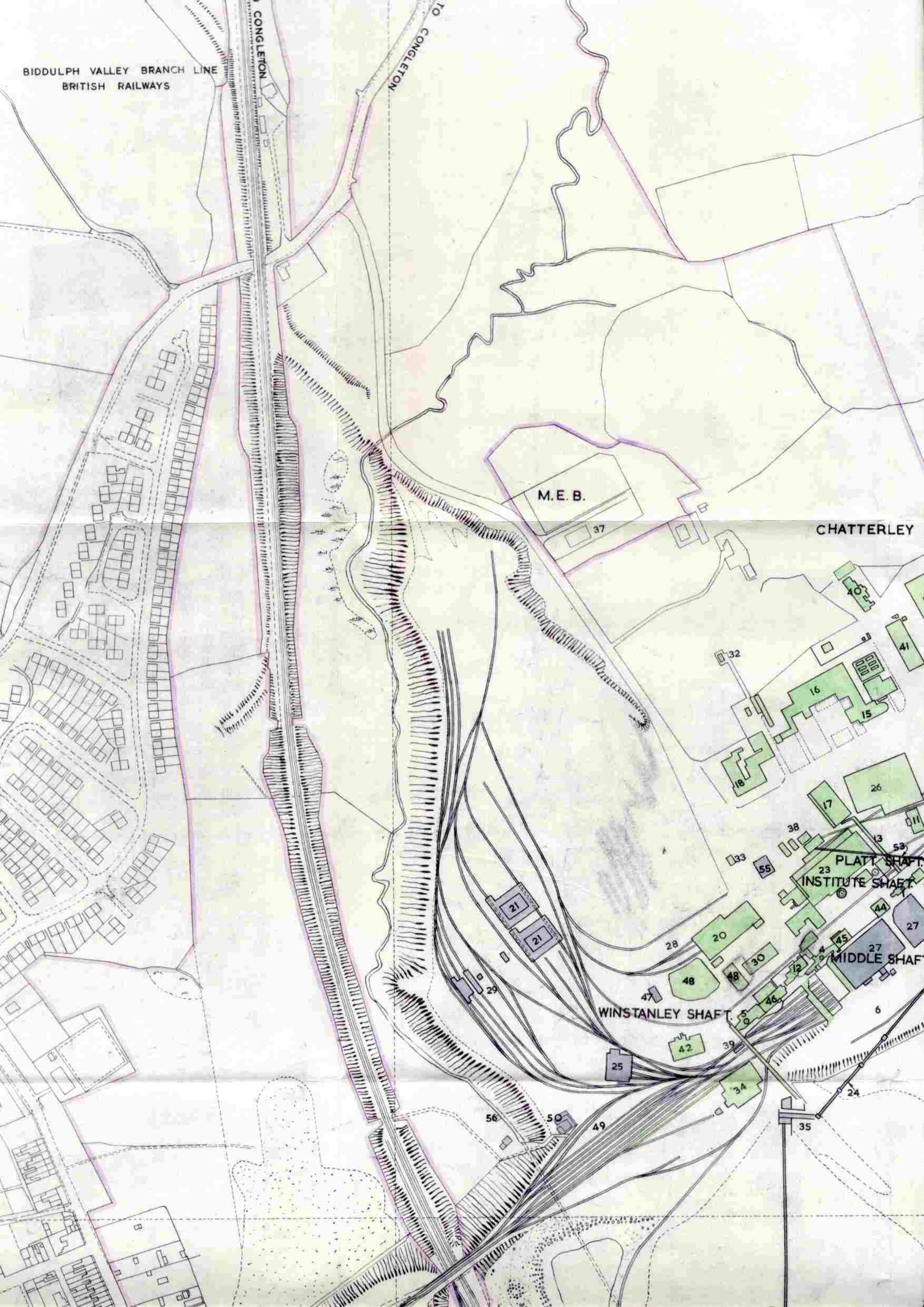
M.E.B.

CHATTERLEY

PLATT SHAFT  
INSTITUTE SHAFT

MIDDLE SHAFT

WINSTANLEY SHAFT



OX FORD

FEGG HAYES

SJ8753  
SJ 8752

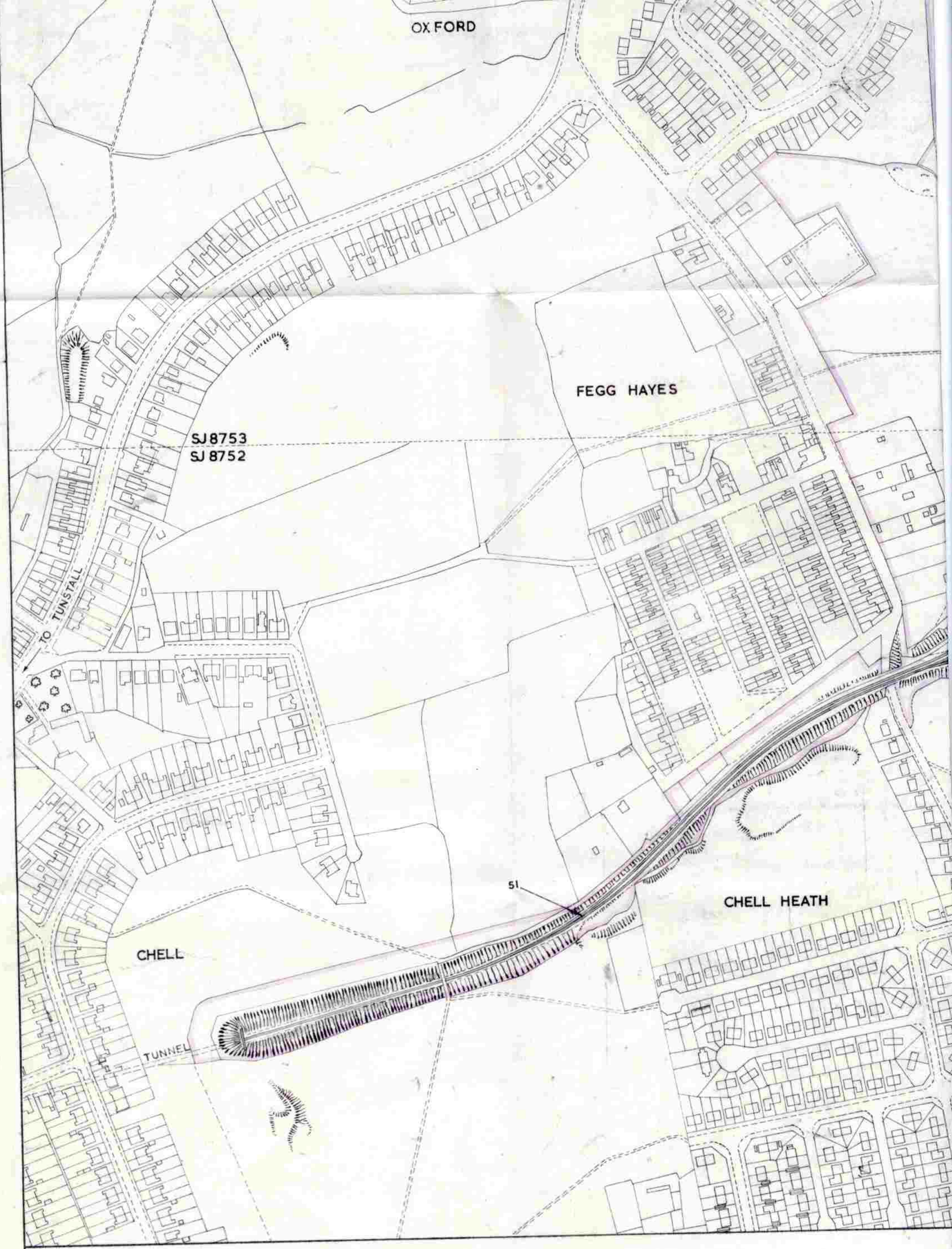
TO TUNSTALL

51

CHELL HEATH

CHELL

TUNNEL



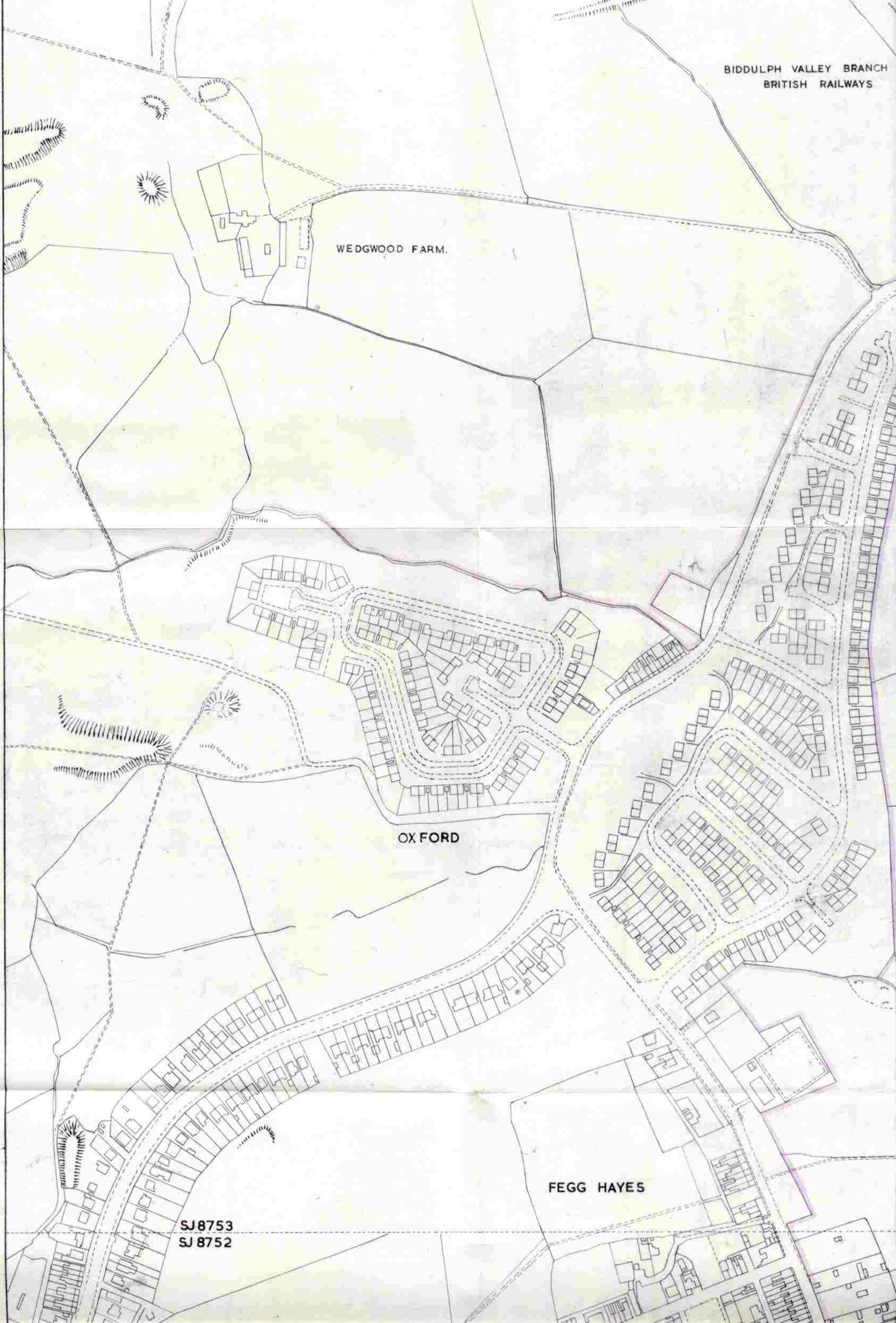


WEDGWOOD FARM.

OX FORD

FEGG HAYES

SJ8753  
SJ 8752





- 28 LANDSALE WHARF
- 29 LANDSALE BUNKERS
- 30 METHANE DRAINAGE PLANT
- 31 COOLING POND
- 32 EXPLOSIVE STORE
- 33 LANDSALES WEIGHBRIDGES
- 34 WAGON REPAIRS
- 35 EXCHANGE SIDINGS
- 36 COAL STOCKING AREA
- 37 M.E.B. SUB STATION
- 38 CAR PARK
- 39 WEIGH M/C (SIDINGS)
- 40 RESCUE STATION
- 41 OFFICES (COLLIERY)
- 42 TUB REPAIRS
- 43 HESKETH WINDER HOUSE
- 44 INSTITUTE WINDER HOUSE
- 45 MIDDLE PIT WINDER HOUSE
- 46 WINSTANLEY WINDER HOUSE
- 47 SHALE CONVEYOR
- 48 RESERVOIR
- 49 RESERVOIR
- 50 SETTLING POND
- 51 WHARF AMENITIES BUILDING
- 52 HESKETH HEAPSTEAD BUILDING
- 53 BOILER FUEL CONVEYOR
- 54 COOLING TOWERS
- 55 PAY OFFICE
- 56 PUMP HOUSE

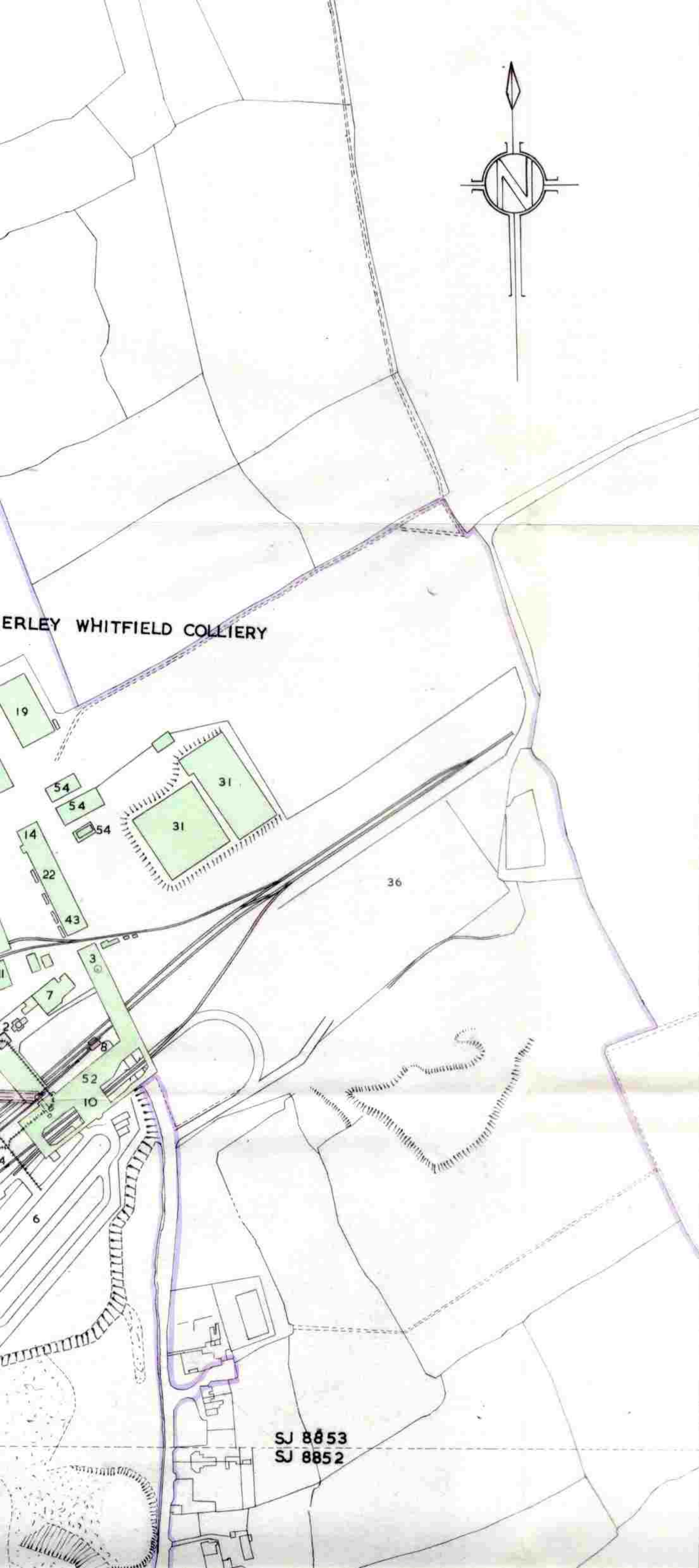
EXISTING BUILDINGS ETC TO BE RETAINED GREEN

PROPOSED BUILDINGS ETC

N.C.B. BOUNDARY

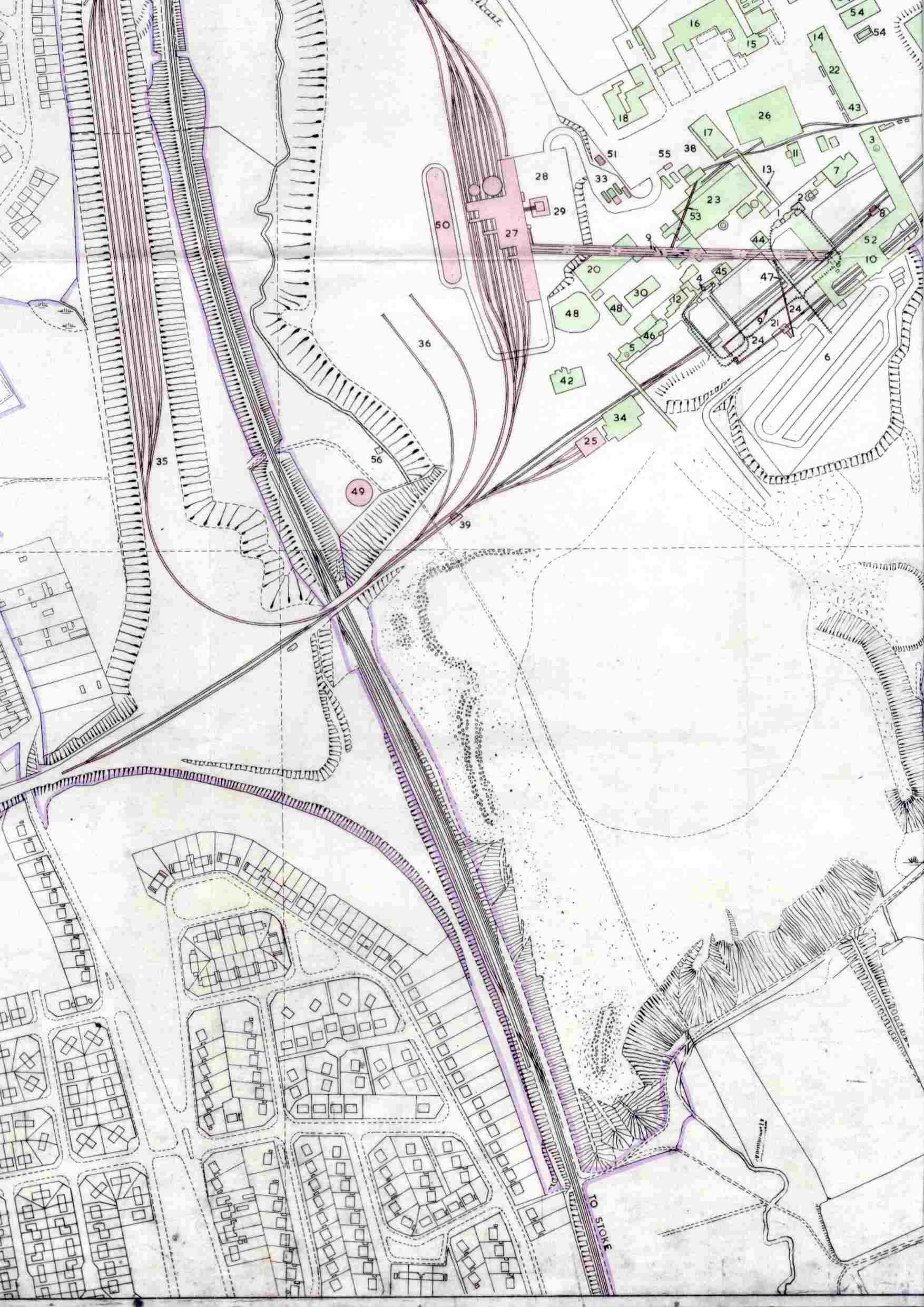
**NATIONAL COAL BOARD**  
 WEST MIDLANDS DIVISION No 1 NORTH STAFFS AREA  
**CHATTERLEY WHITFIELD COLLIERY**  
 PROPOSED SURFACE LAYOUT

DRAWN BY TRACED BY CHECKED BY PASSED BY	J.B. & W.E.	SCALE 1/2500 DATE 25.1.61.	MECH. ENG. D.O. <b>DRAWING No</b> <b>C/13/12/046.E.M.</b>
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**REFERENCE KEY**

- 1 INSTITUTE SHAFT (UPCAST)
- 2 PLATT SHAFT (UPCAST)
- 3 HESKETH SHAFT (DOWNCAST)
- 4 MIDDLE SHAFT (DOWNCAST)
- 5 WINSTANLEY SHAFT (UPCAST)
- 6 STOCKYARD
- 7 PLATT WINDER HOUSE
- 8 FOREIGN COAL TIPPLER
- 9 R.O.M. COAL CONVEYORS
- 10 MINE CAR REPAIR SHOP
- 11 FAN HOUSE PLATT
- 12 FAN HOUSE WINSTANLEY
- 13 WALKWAY
- 14 COMPRESSOR HOUSE
- 15 CANTEEN
- 16 PIT HEAD BATHS
- 17 LAMPHOUSE
- 18 GENERAL OFFICES (AREA)
- 19 GARAGE
- 20 STORES
- 21 R.O.M. DIRT BUNKER
- 22 POWER HOUSE
- 23 BOILER HOUSE
- 24 R.O.M. DIRT CONVEYOR
- 25 LOCO SHED
- 26 WORKSHOP
- 27 COAL PREP<sup>M</sup> PLANT
- 28 LANDSALE WHARF
- 29 LANDSALE BUNKERS
- 30 METHANE DRAINAGE PLANT
- 31 COOLING POND
- 32 EXPLOSIVE STORE
- 33 LANDSALES WEIGHBRIDGES
- 34 WAGON REPAIRS
- 35 EXCHANGE SIDINGS
- 36 COAL STOCKING AREA
- 37 M.E.B. SUB STATION
- 38 CAR PARK
- 39 WEIGH M/C (SIDINGS)
- 40 RESCUE STATION
- 41 OFFICES (COLLIERY)
- 42 TUB REPAIRS
- 43 HESKETH WINDER HOUSE
- 44 INSTITUTE WINDER HOUSE
- 45 MIDDLE PIT WINDER HOUSE
- 46 WINSTANLEY WINDER HOUSE.
- 47 SHALE CONVEYOR
- 48 RESERVOIR
- 49 RESERVOIR
- 50 SETTLING POND
- 51 WHARF AMENITIES BUILDING
- 52 HESKETH HEAPSTEAD BUILDING
- 53 BOILER FUEL CONVEYOR
- 54

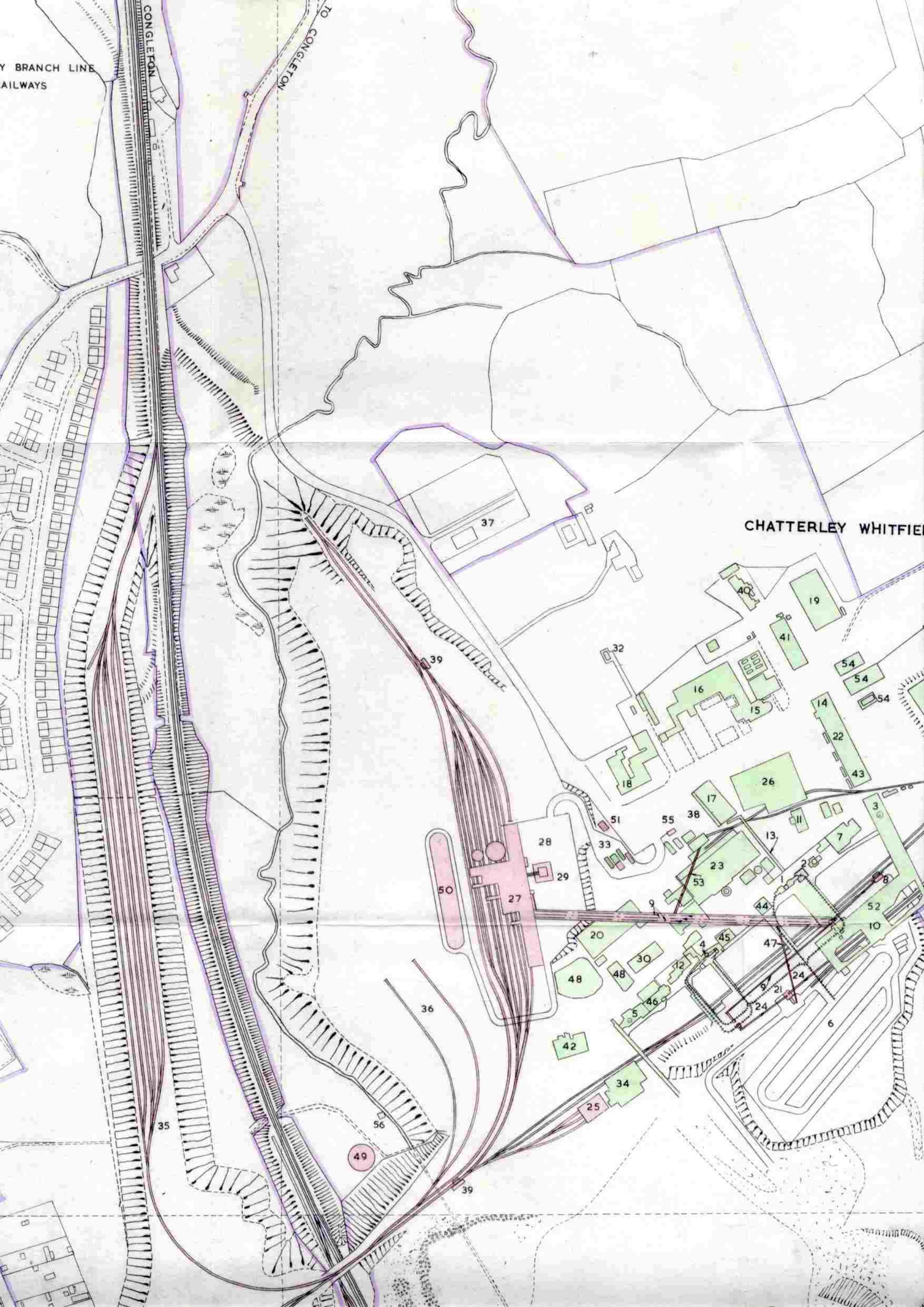


Y BRANCH LINE  
RAILWAYS

CONGLETON

TO CONGLETON

CHATTERLEY WHITFIELD



OX FORD

BIDDULPH ROAD

FEGG HAYES

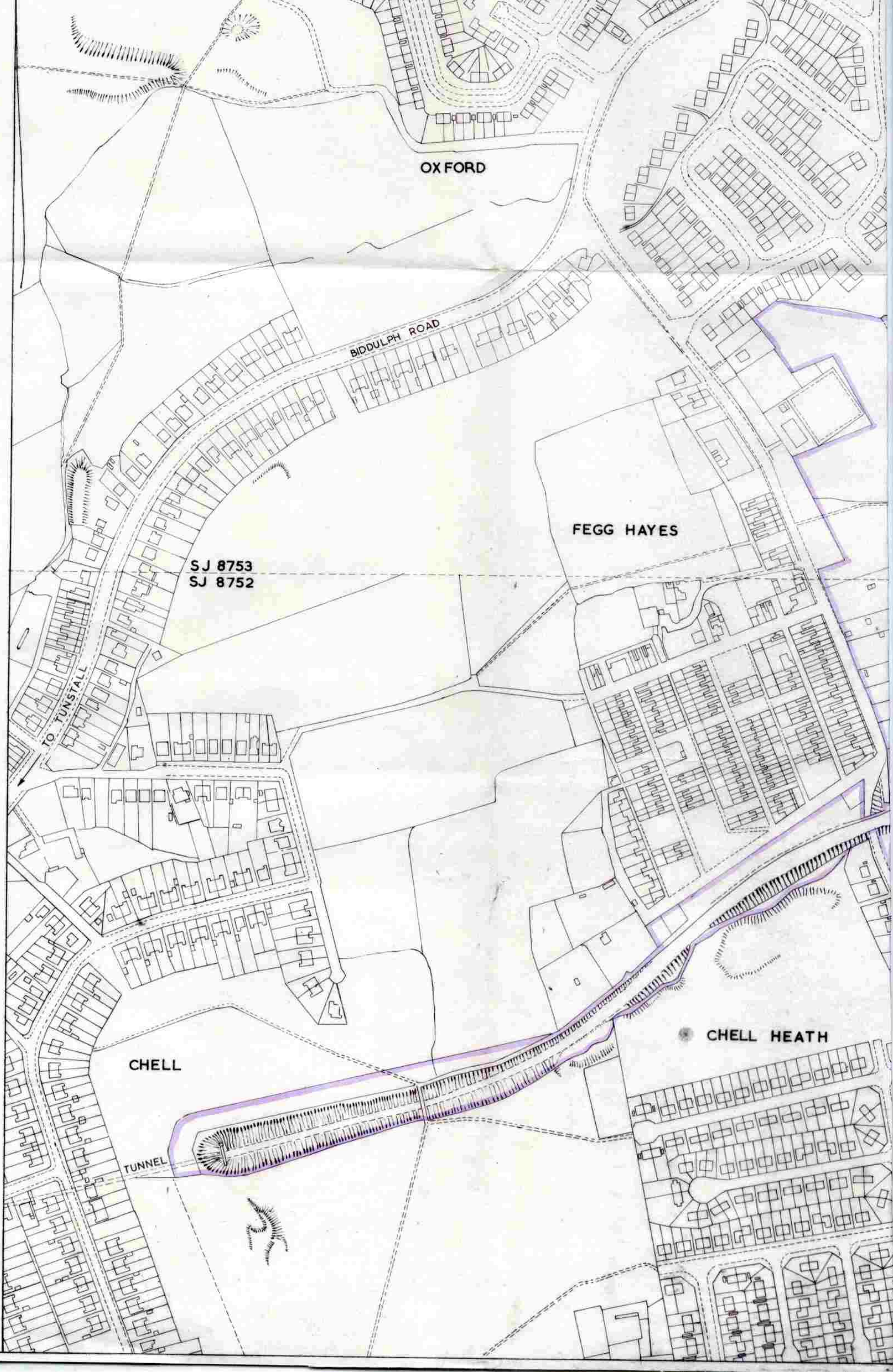
SJ 8753  
SJ 8752

TO TUNSTALL

CHELL

● CHELL HEATH

TUNNEL



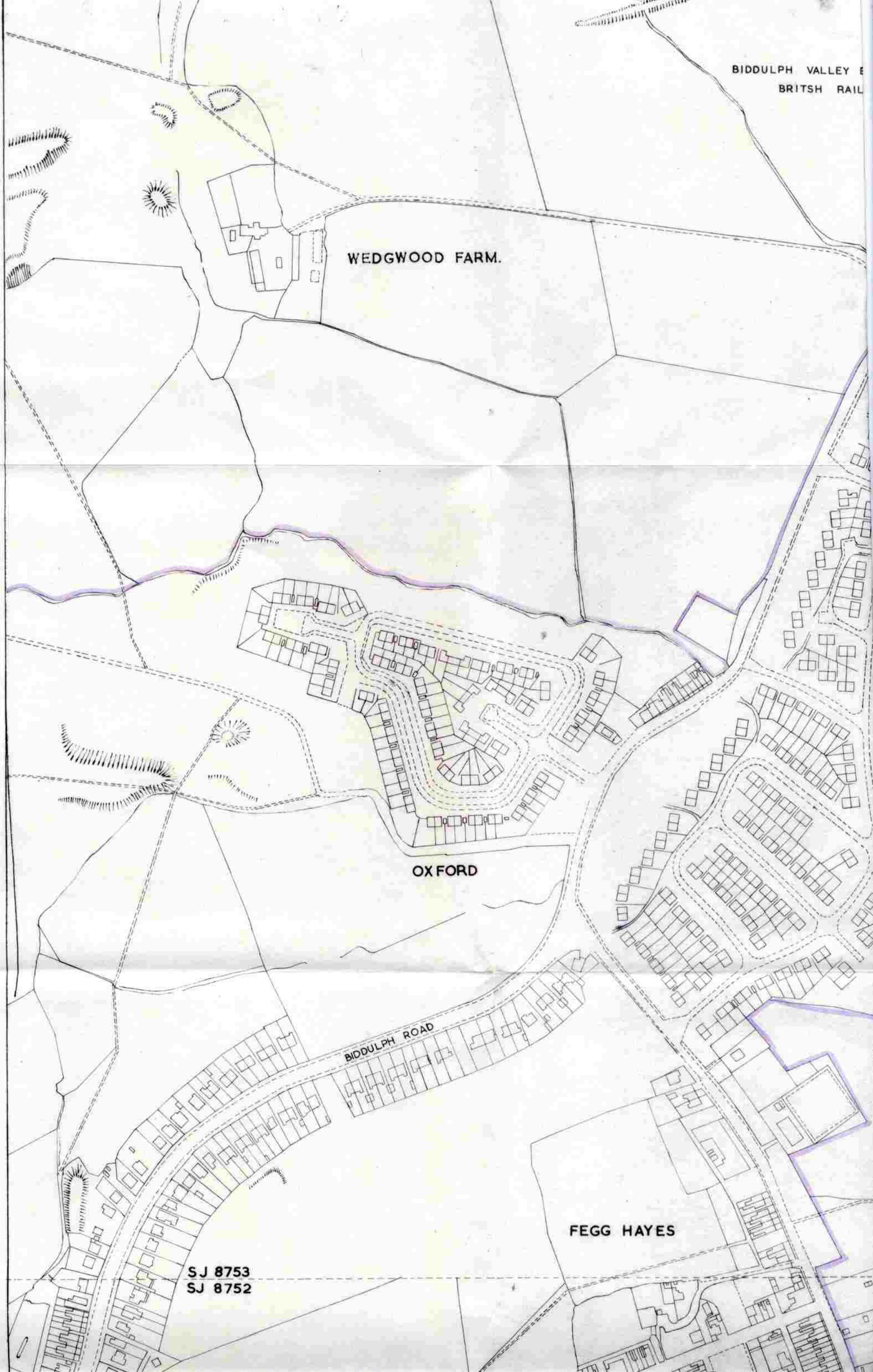
WEDGWOOD FARM.

OXFORD

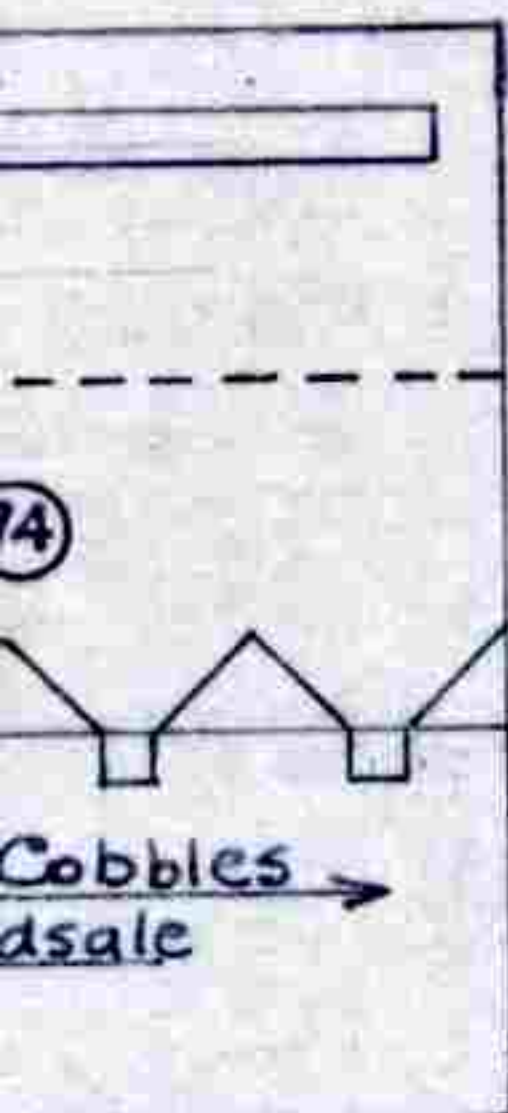
BIDDULPH ROAD

FEGG HAYES

SJ 8753  
SJ 8752



19	8"-2" Best Coal Primary D.M. Bath.
20	8"-2" House Coal Primary D.M. Bath.
21	8"-2" Landsale C.C. Classifying Screen Best.
22	8"-2" Landsale C.C. Classifying Screen House.
23	8"-2" C.C. Conveyor Best.
24	8"-2" C.C. Conveyor House.
25	8"-2" C.C. Classifying Screen Best
26	8"-2" C.C. Classifying Screen House
27	Best Cobbles Wagon Loading Boom.
28	House Cobbles Wagon Loading Boom.
29	Best Trebles Wagon Loading Boom.
30	House Trebles Wagon Loading Boom.
31	Best Cobbles Landsale Stallage Feed Conveyor.
32	House Cobbles Landsale Stallage Feed Conveyor.
33	Best Trebles Landsale Bunker feed Conveyor.
34	House Trebles Landsale Bunker Feed Conveyor.
35	Best Trebles Landsale Bunker.
36	House Trebles Landsale Bunker.
37	2"-0 Coking Coal Conveyor.
38	2"-0 G.P. Coal Conveyor.
39	2"-0 Coking Coal Storage & Blending Bunker.
40	2"-0 G.P. Coal Storage & Blending Bunker.
41	Tertiary Raw Coal Wet Screen 1/2" Coking Coal.
42	Tertiary Raw Coal Dry Screen 1/2" G.P. Coal.
43	2"-1/2" Raw Coal Bath Feed Conveyor.
44	2"-1/2" Secondary D.M. Bath.
45	Primary Baths Sinks Conveyor.
46	2" oversize screen.
47	Washed Middlings Crusher.
48	2"-1/2" c.c. Conveyor ①
49	2"-1/2" c.c. Conveyor ②
50	Secondary C.C. Classifying Screen.
51	Doubles Dual Purpose Storage Bunker.
52	Singles Dual Purpose Storage Bunker.
53	1/2"-0 Dry Smalls Conveyor.
54	1/2"-0 Dry Smalls Wagon Loading Bunker.
55	1/2"-0 Dry Smalls Landsale Conveyor.
56	1/2"-0 Dry Smalls Landsale Bunker.
57	1/2"-0 Coking Smalls Feed & Desliming Sump.
58	1/2"-0 Coking Smalls Feed Elevator.
59	1/2"-0 Primary D.M. Cyclones.
60	1/2"-1/2mm Coking Smalls Scraper Conveyor.
61	Dewatering Centrifuges.
62	1/2"-1/2mm Feed Conveyor to Wagon Loading Bunker.
63	1/2mm-0 Slurry Tower.
64	Rotary Disc Filter.
65	1/2"-1/2mm Coking Smalls Wagon Loading Bunker.
66	1/2"-1/2mm Coking Smalls Landsale Bunker.
67	Tailings Thickener.
68	Dirt Crusher.
69	Dirt Outloading Bunker.
70	Large Best Coal Landsale Bagging Stallage Bunkers.
71	Large House Coal Landsale Bagging Stallage Bunkers.
72	Best Cobbles Travelling Boom Loader.
73	House Cobbles Travelling Boom Loader.
74	Best Cobbles Landsale Bagging Stallage Bunkers.
75	House Cobbles Landsale Bagging Stallage Bunkers.



COAL PREPARATION PLANT.  
 (with "Conventional" Rail Wagon Loading)  
 WHITFIELD COLL.

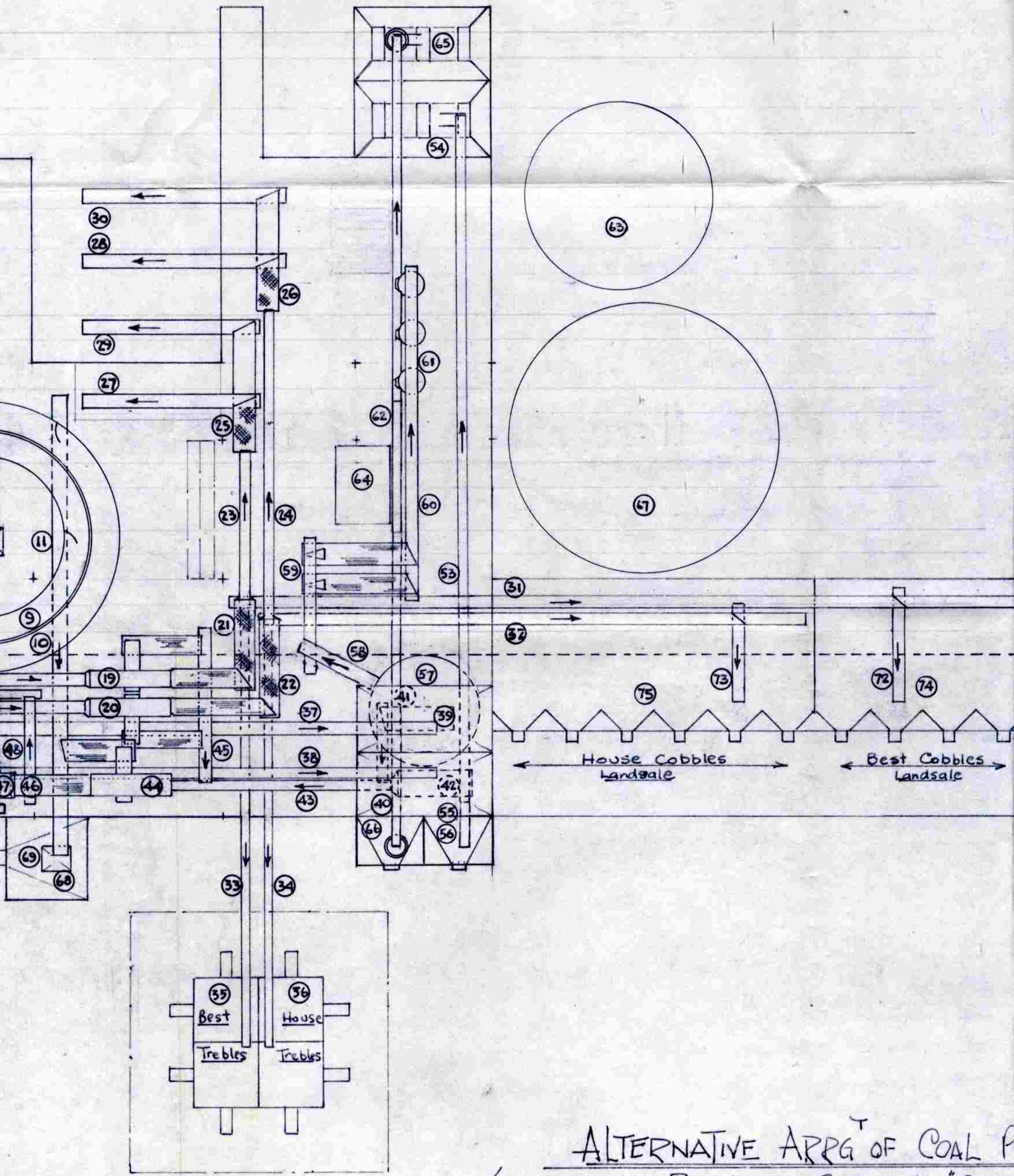
COAL PREPARATION BRANCH  
 PRODUCTION DEPARTMENT  
 WEST MIDLANDS DIVISION  
 NATIONAL COAL BOARD.

SCALE - 1/16" TO 1 FT.

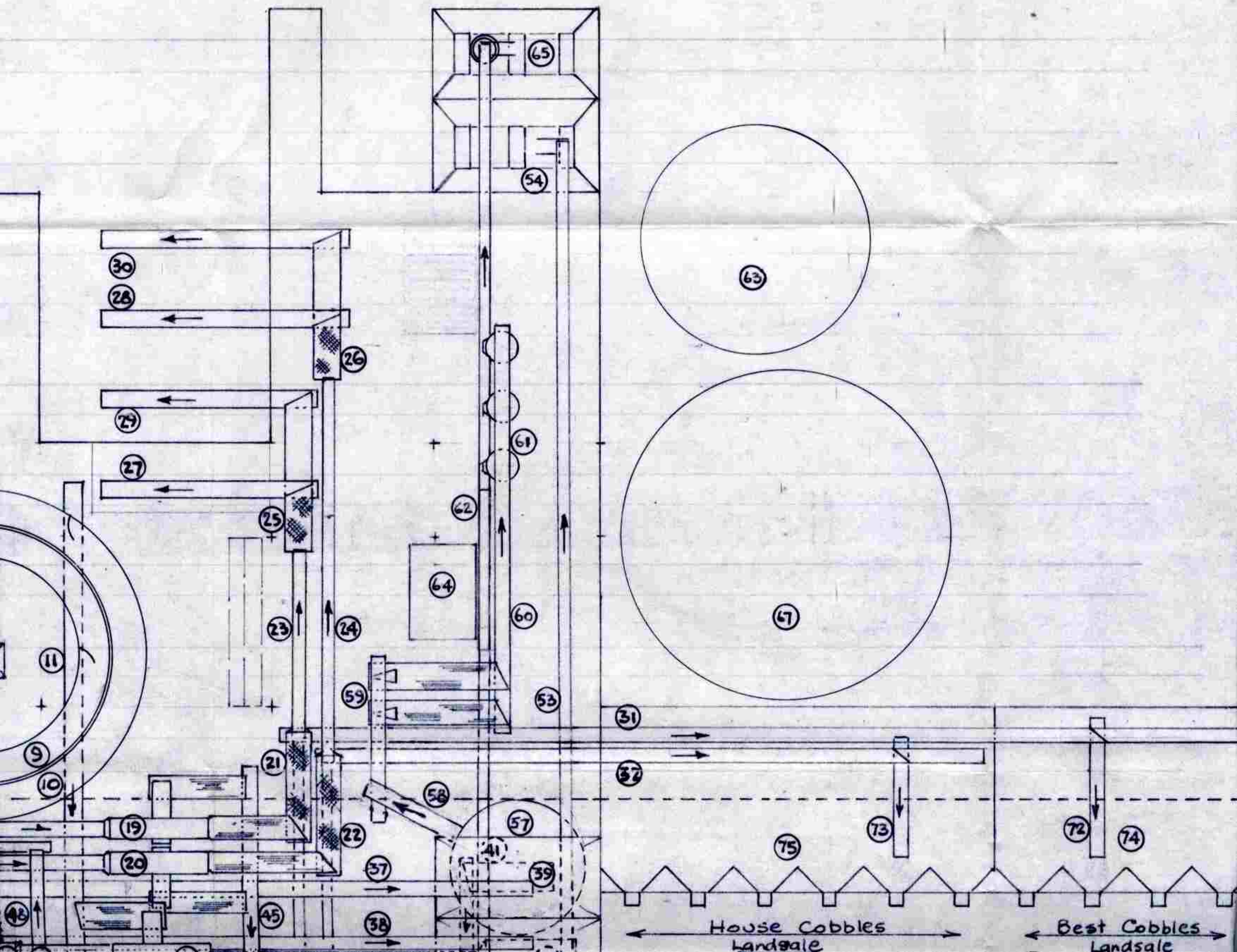
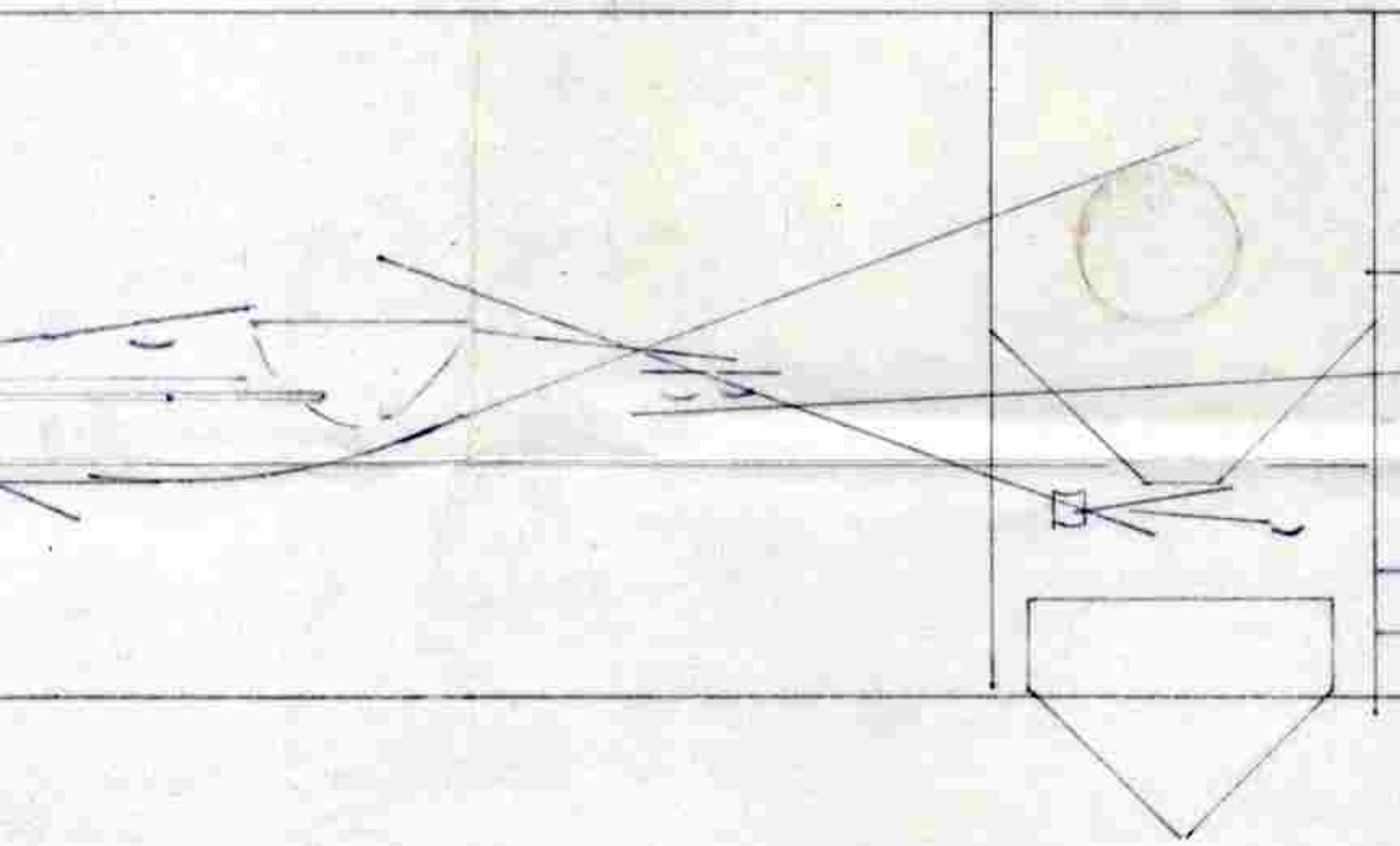
DRG NO 1/202.  
 24/11/60.

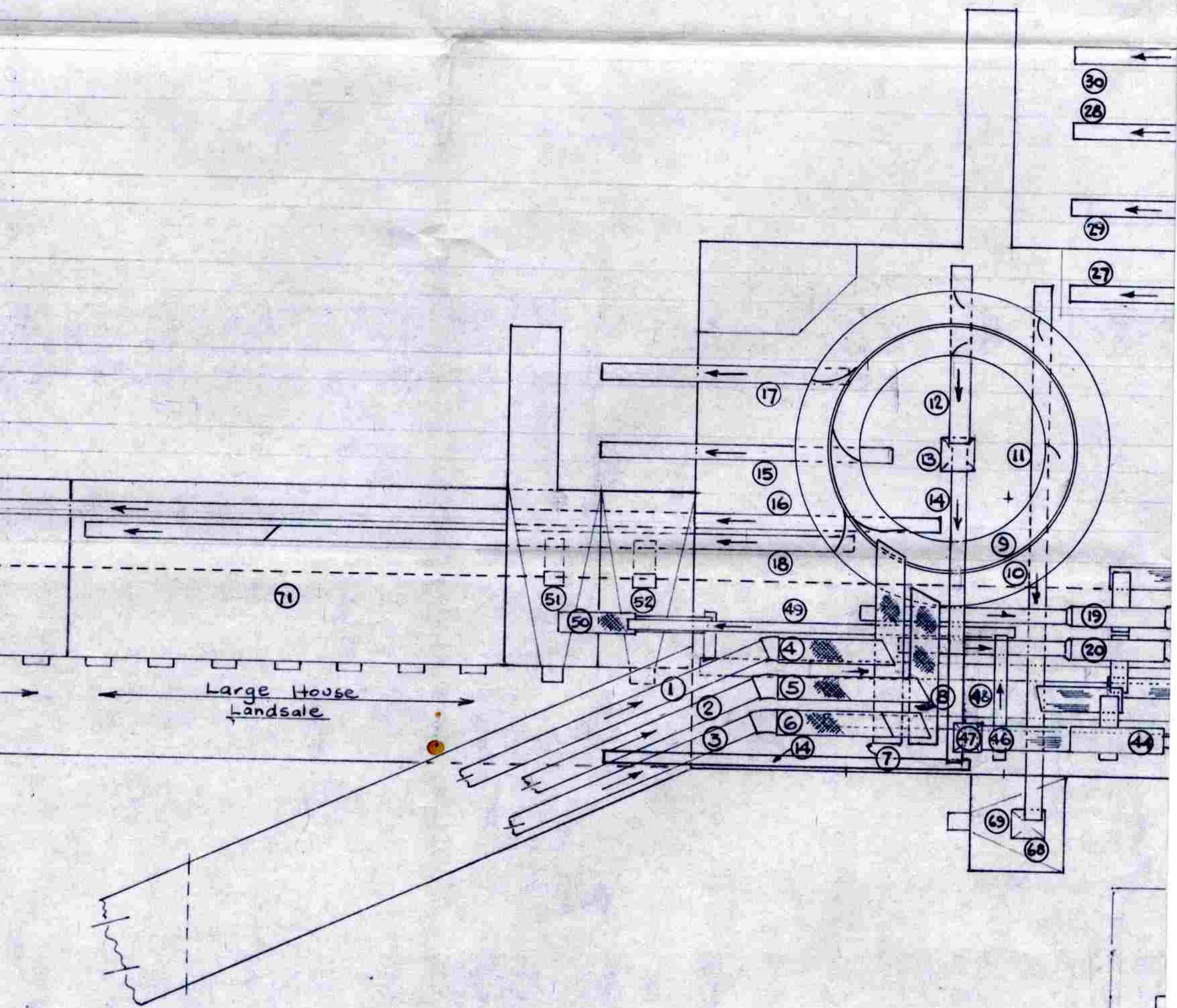


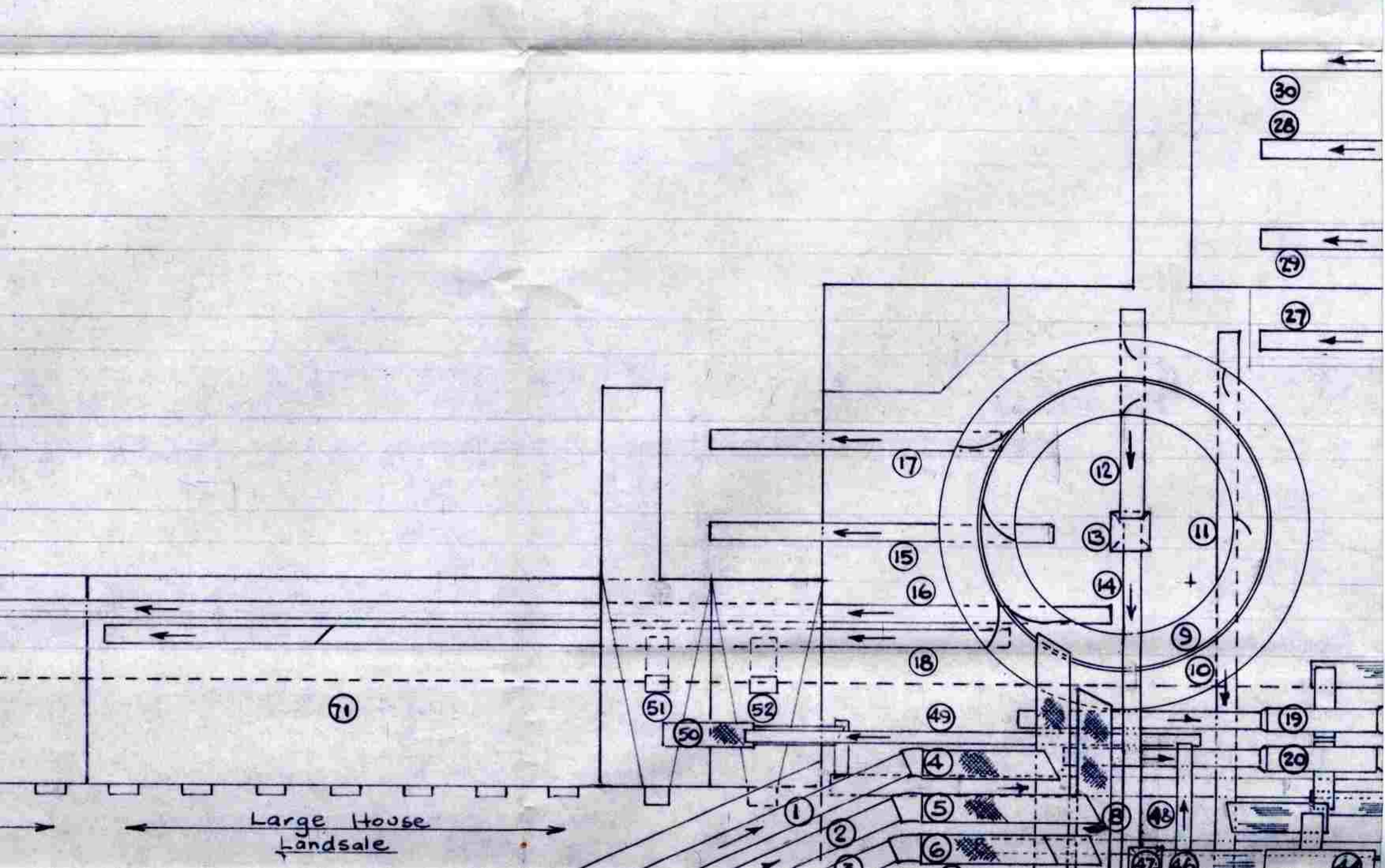
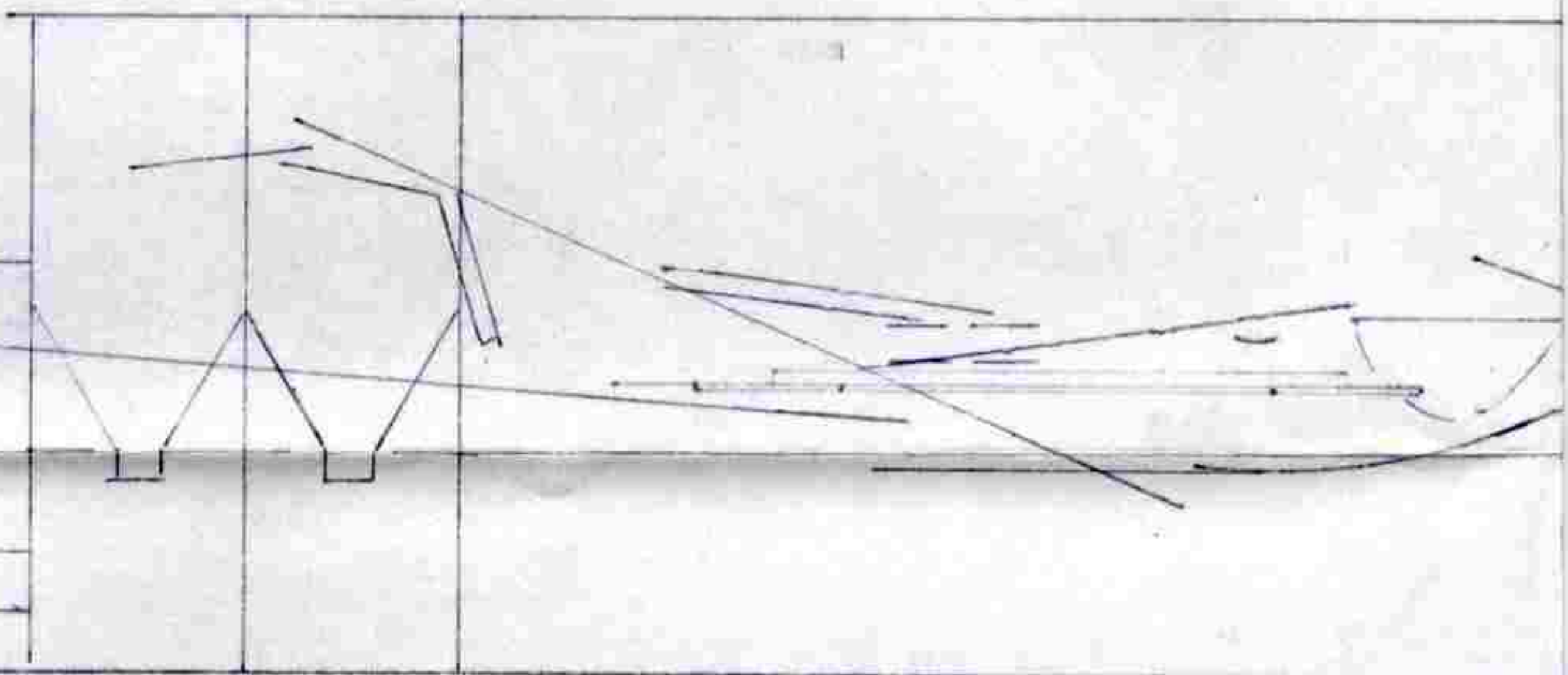
Item No	Description of Item.
1	R.o.M. Conveyor. Best Coal - Hesketh Pit.
2	R.o.M. Conveyor. House Coal - Hesketh Pit.
3	R.o.M. Conveyor. Either grade - Middle Pit.
4	Primary Raw Coal Screen "2" Best - Hesketh.
5	Primary Raw Coal Screen "2" House - Hesketh.
6	Primary Raw Coal Screen "2" Either grade - Middle.
7	Secondary R.C. Screen "8" Best.
8	Secondary R.C. Screen "8" House.
9	Inner Picking Table Best.
10	Outer Picking Table House.
11	Picked Dirt Conveyor.
12	Inferior Coal Conveyor.
13	Inferior Coal Crusher.
14	Crushed Middlings Conveyors.
15	"Large Best" Wagon Loading Boom.
16	"Large Best" Landsale Stallage Feed Conveyor.
17	"Large House" Wagon Loading Boom.
18	"Large House" Landsale Stallage Feed Conveyor.
19	8"-2" Best Coal Primary D.M. Bath.
20	8"-2" House Coal Primary D.M. Bath.
21	8"-2" Landsale C.C. Classifying Screen Best.
22	8"-2" Landsale C.C. Classifying Screen House.
23	8"-2" C.C. Conveyor Best.
24	8"-2" C.C. Conveyor House.
25	8"-2" C.C. Classifying Screen Best
26	8"-2" C.C. Classifying Screen House
27	Best Cobbles Wagon Loading Boom.
28	House Cobbles Wagon Loading Boom.
29	Best Trebles Wagon Loading Boom.
30	House Trebles Wagon Loading Boom.
31	Best Cobbles Landsale Stallage Feed Conveyor.
32	House Cobbles Landsale Stallage Feed Conveyor.
33	Best Trebles Landsale Bunker Feed Conveyor.
34	House Trebles Landsale Bunker Feed Conveyor.
35	Best Trebles Landsale Bunker.
36	House Trebles Landsale Bunker.
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38	2"-0 G.P. Coal Conveyor.
39	2"-0 Coking Coal Storage & Blending Bunker.
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54	1/2"-0 Dry Smalls Wagon Loading Bunker.
55	1/2"-0 Dry Smalls Landsale Conveyor.
56	1/2"-0 Dry Smalls Landsale Bunker.
57	1/2"-0 Coking Smalls Feed & Desliming Sump.
58	1/2"-0 Coking Smalls Feed Elevator.
59	1/2"-0 Primary D.M. Cyclones.
60	1/2"-1/2mm Coking Smalls Scraper Conveyor.
61	Dewatering Centrifuges.
62	1/2"-1/2mm Feed Conveyor to Wagon Loading Bunker.
63	1/2mm-0 Slurry Tower.
64	Rotary Disc Filter.
65	1/2"-1/2mm Coking Smalls Wagon Loading Bunker.
66	1/2"-1/2mm Coking Smalls Landsale Bunker.
67	Tailings Thickener.
68	Dirt Crusher.
69	Dirt Outloading Bunker.
70	Large Best Coal Landsale Bagging Stallage Bunkers
71	Large House Coal Landsale Bagging Stallage Bunkers.



ALTERNATIVE APPG<sup>T</sup> OF COAL P  
 (incorporating Road Loading System with "Conven  
 Proposed for CHATTERLEY WH







Running Road

Washed Smalls

Industrial Smalls

House Cobbles

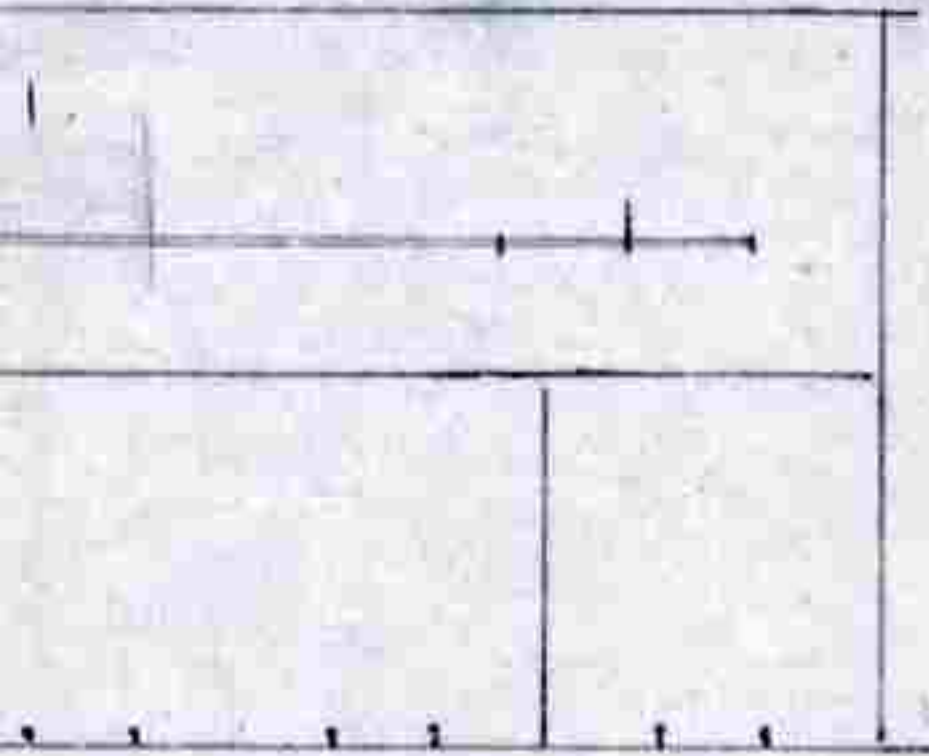
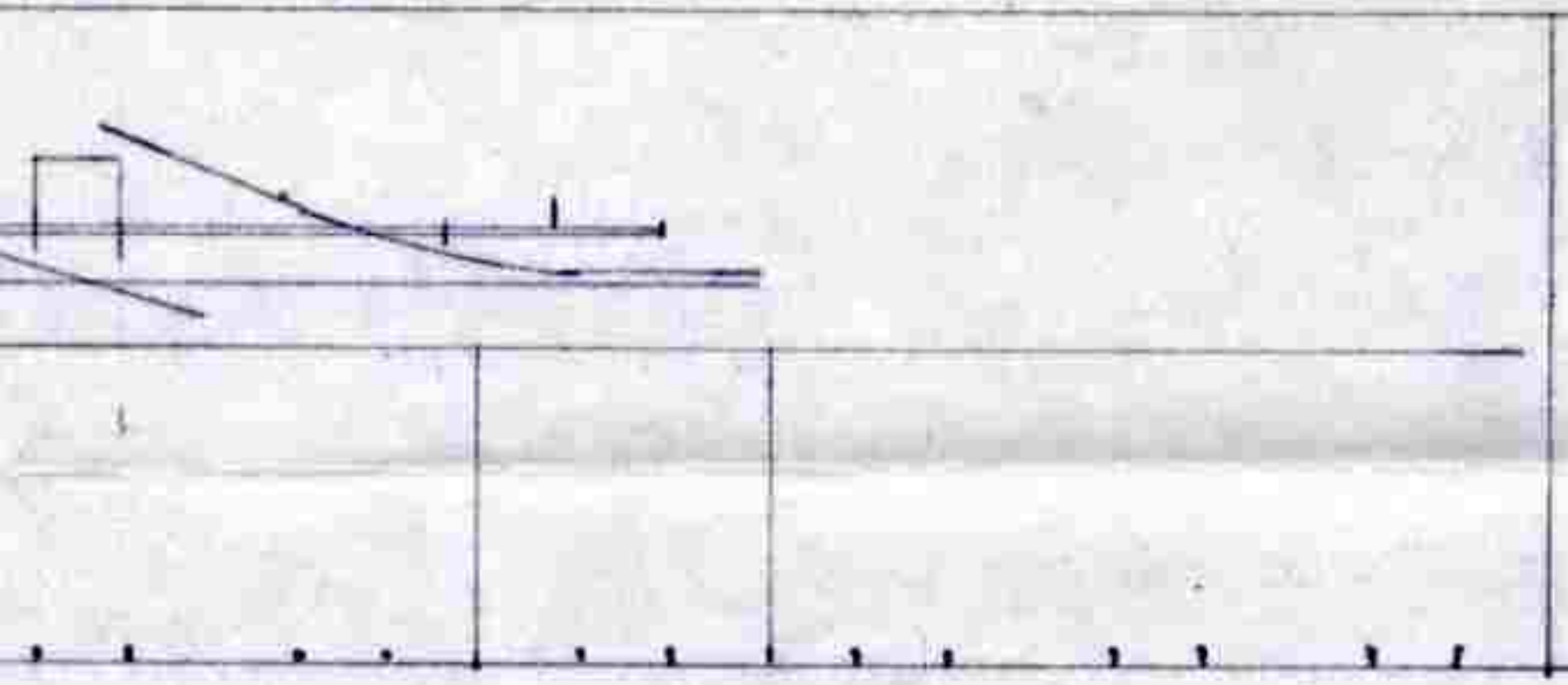
House Trebles

Best Cobbles

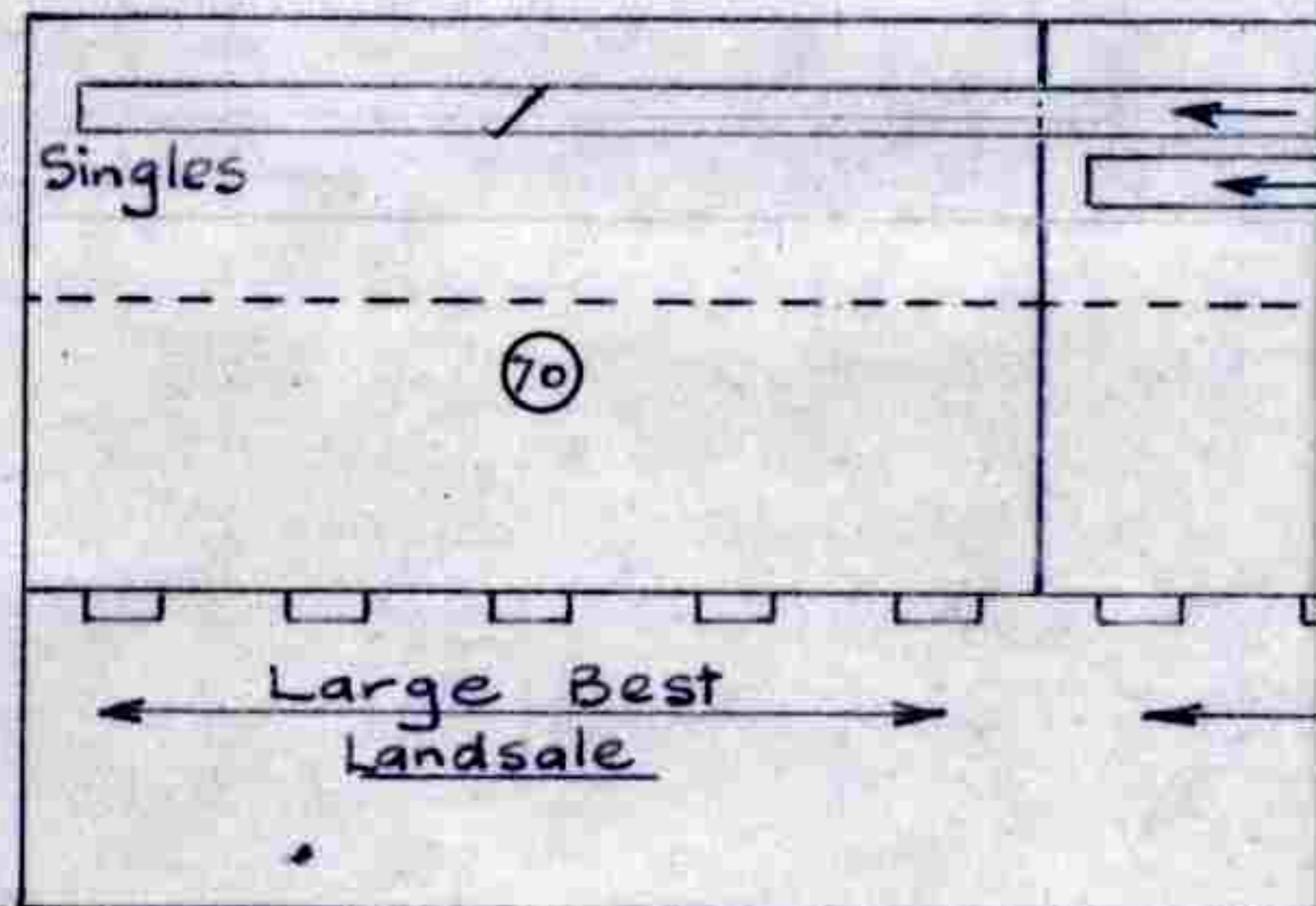
Best Trebles

Large House

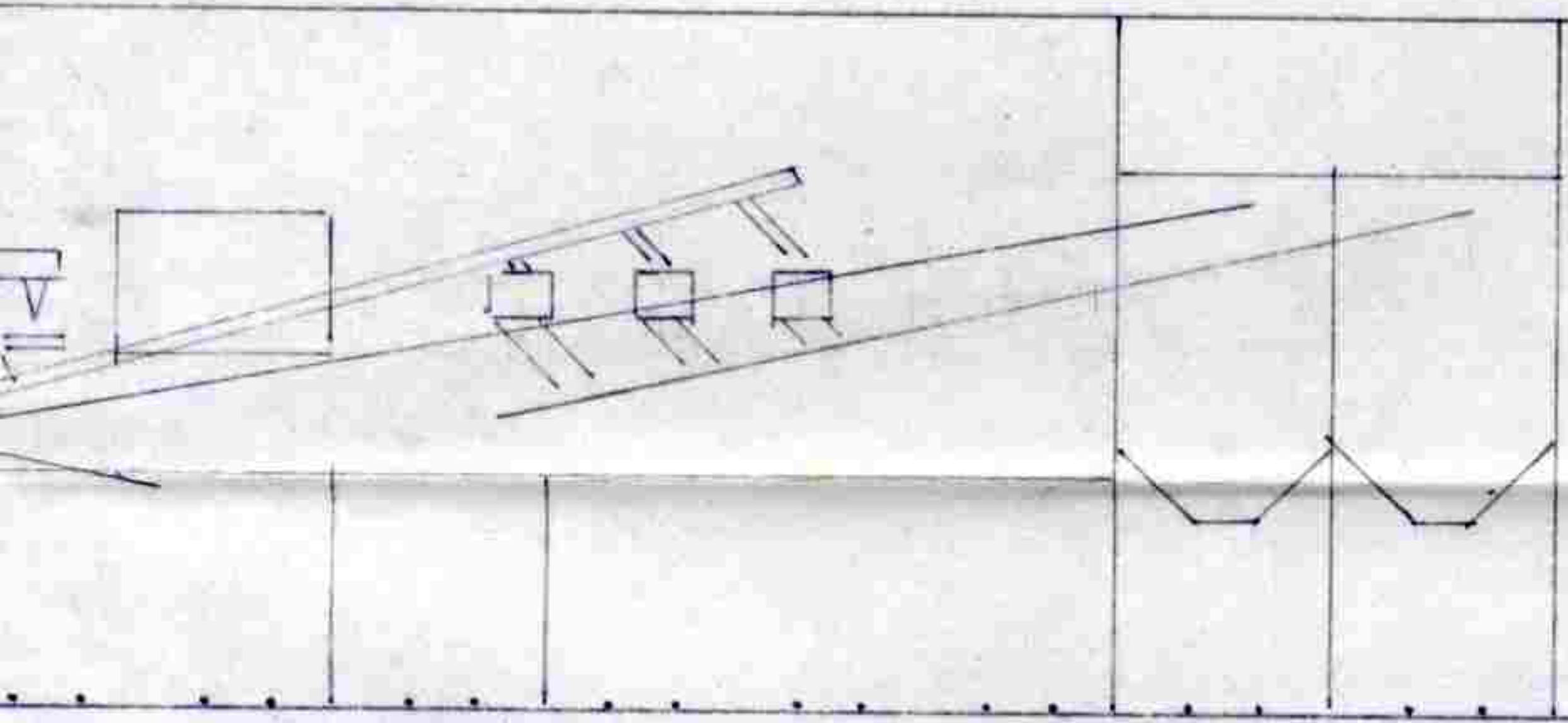
Large Best



Doubles

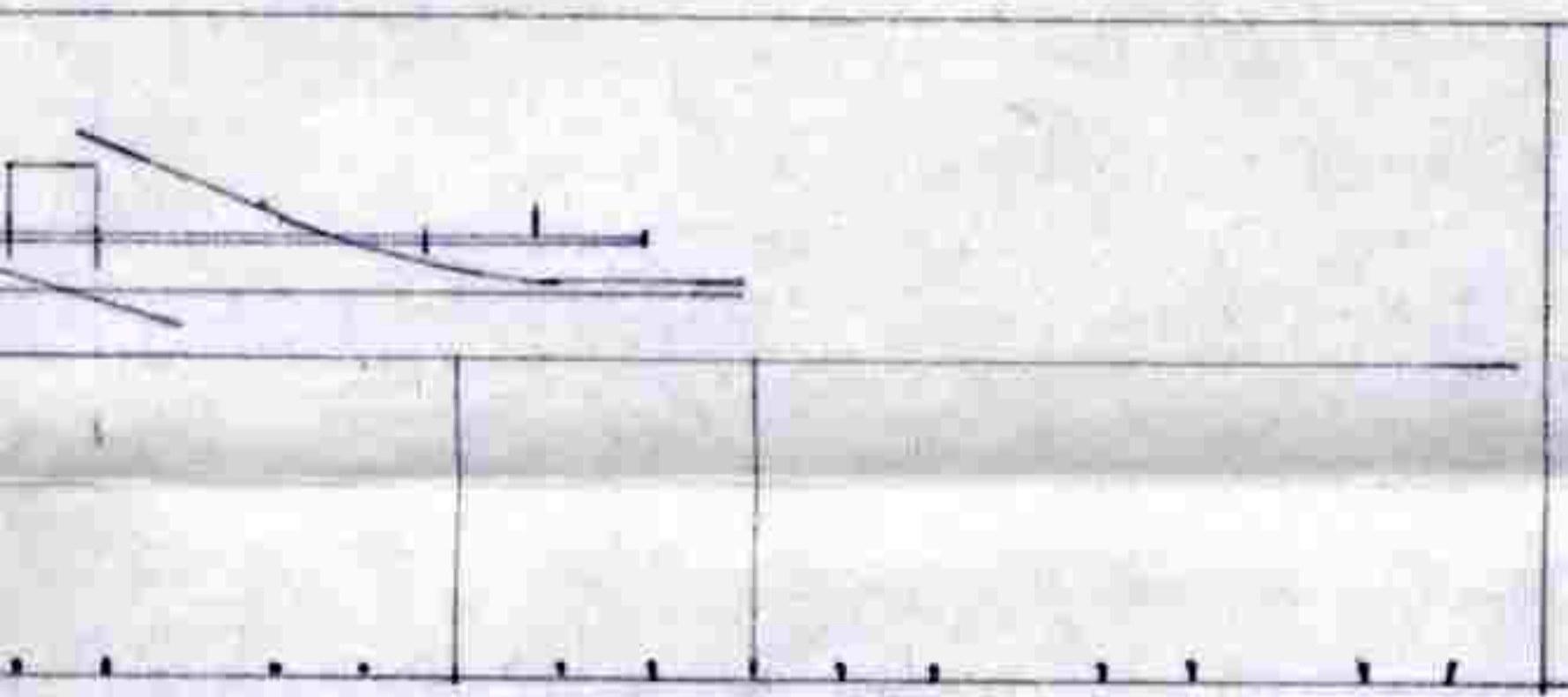


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Running Road

Washed Smalls



Industrial Smalls

House Cobbles

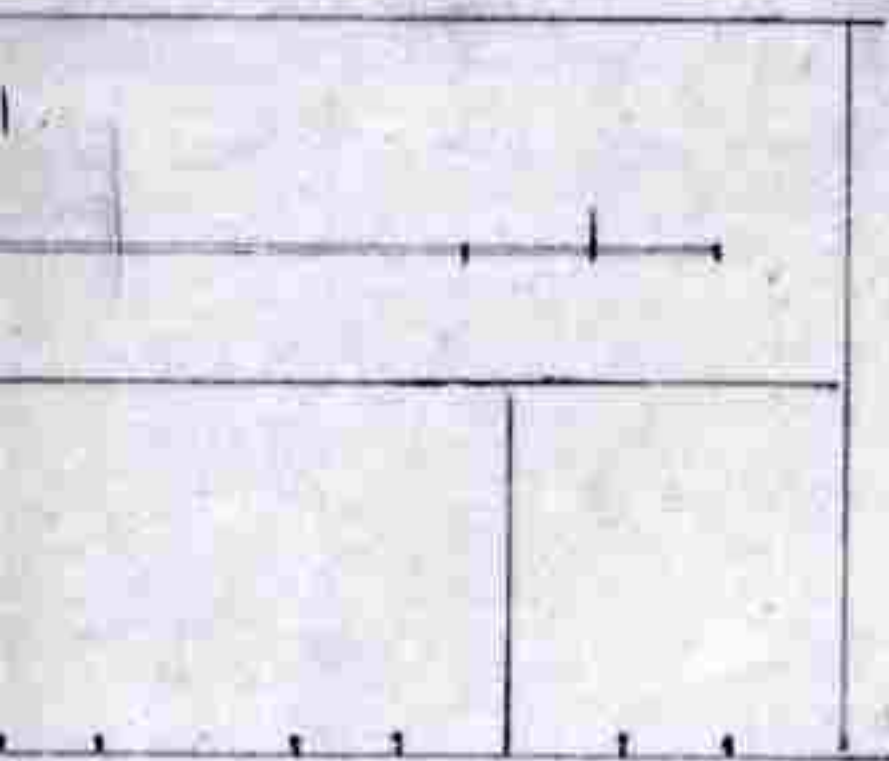
House Trebles

Best Cobbles

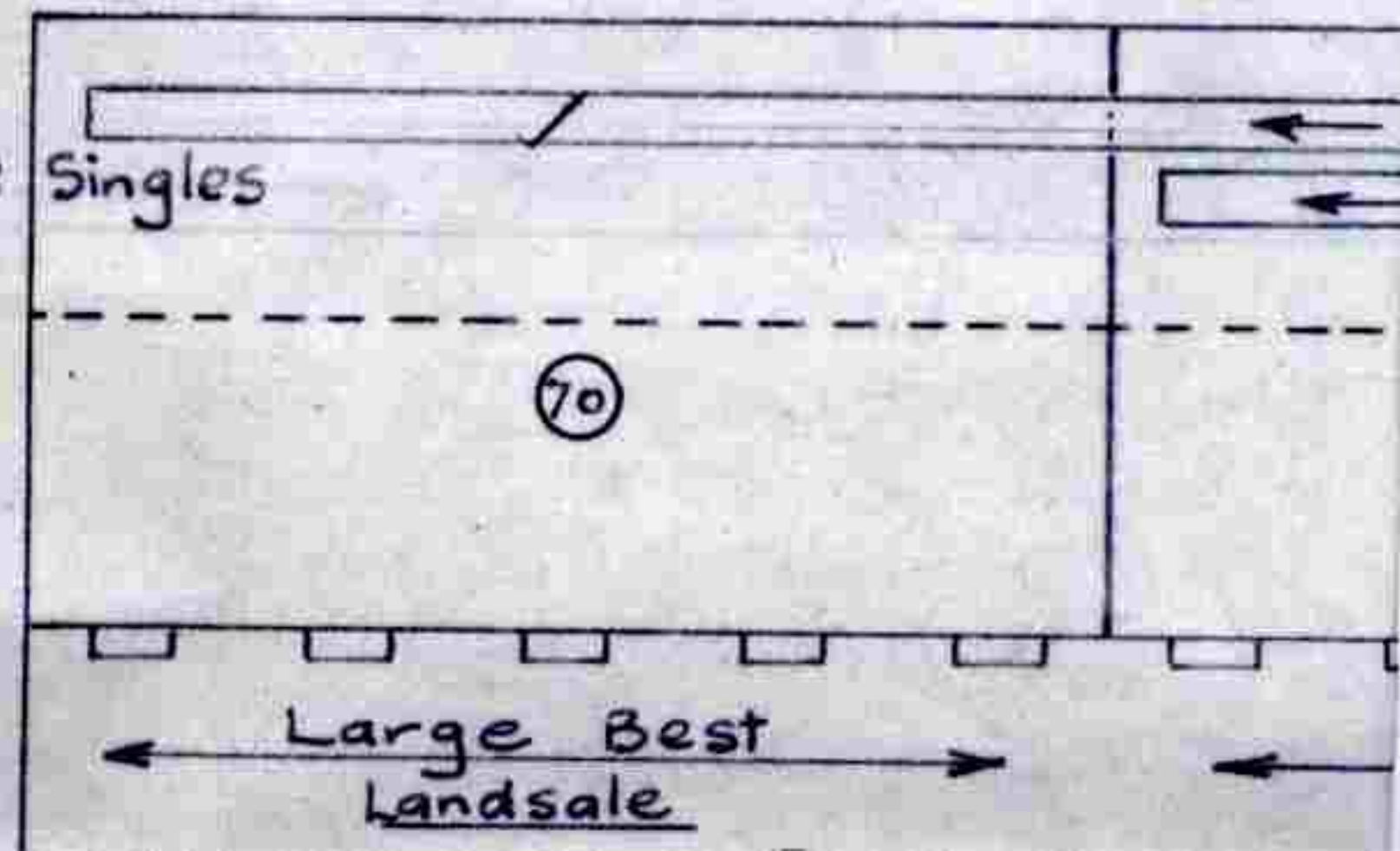
Best Trebles

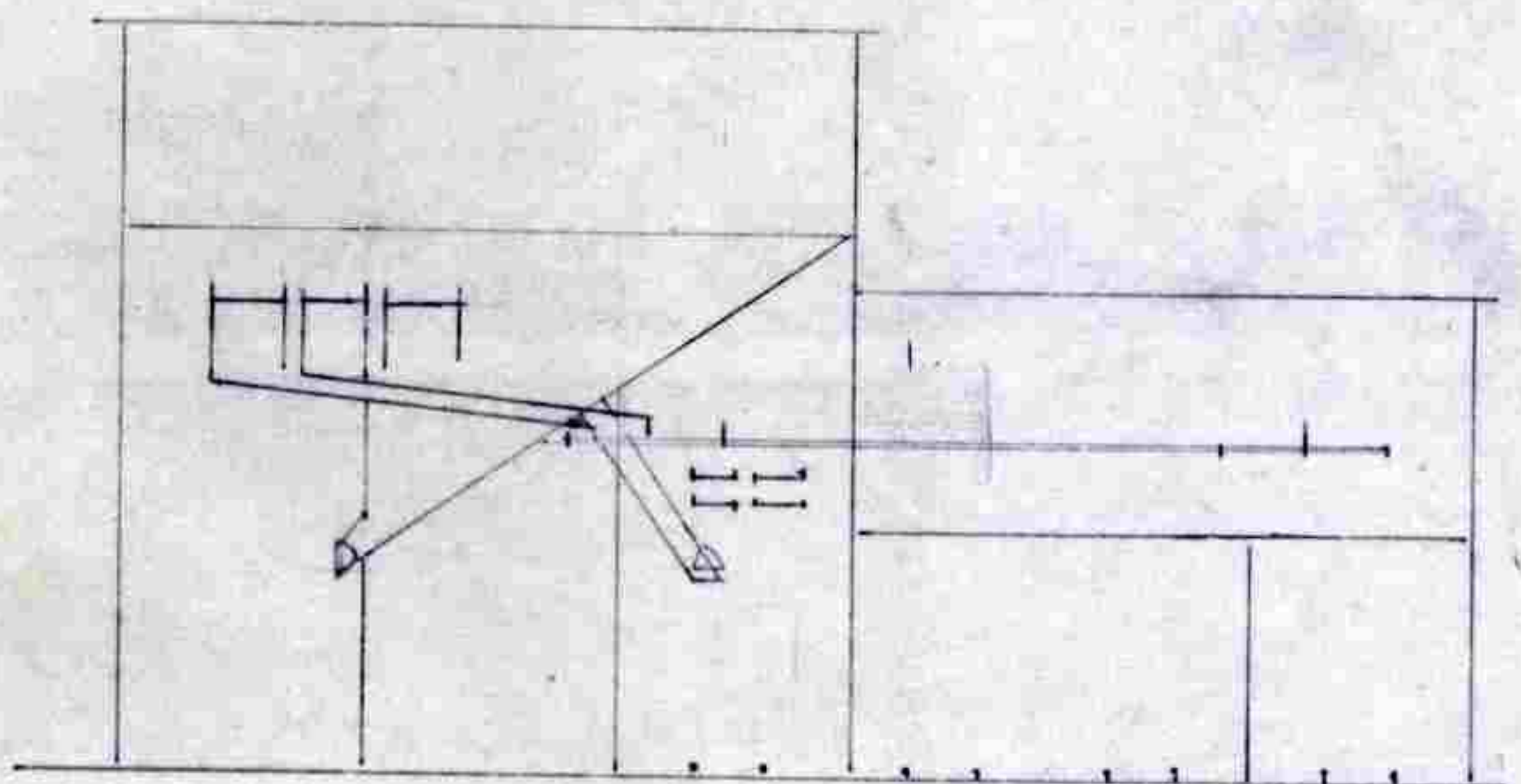
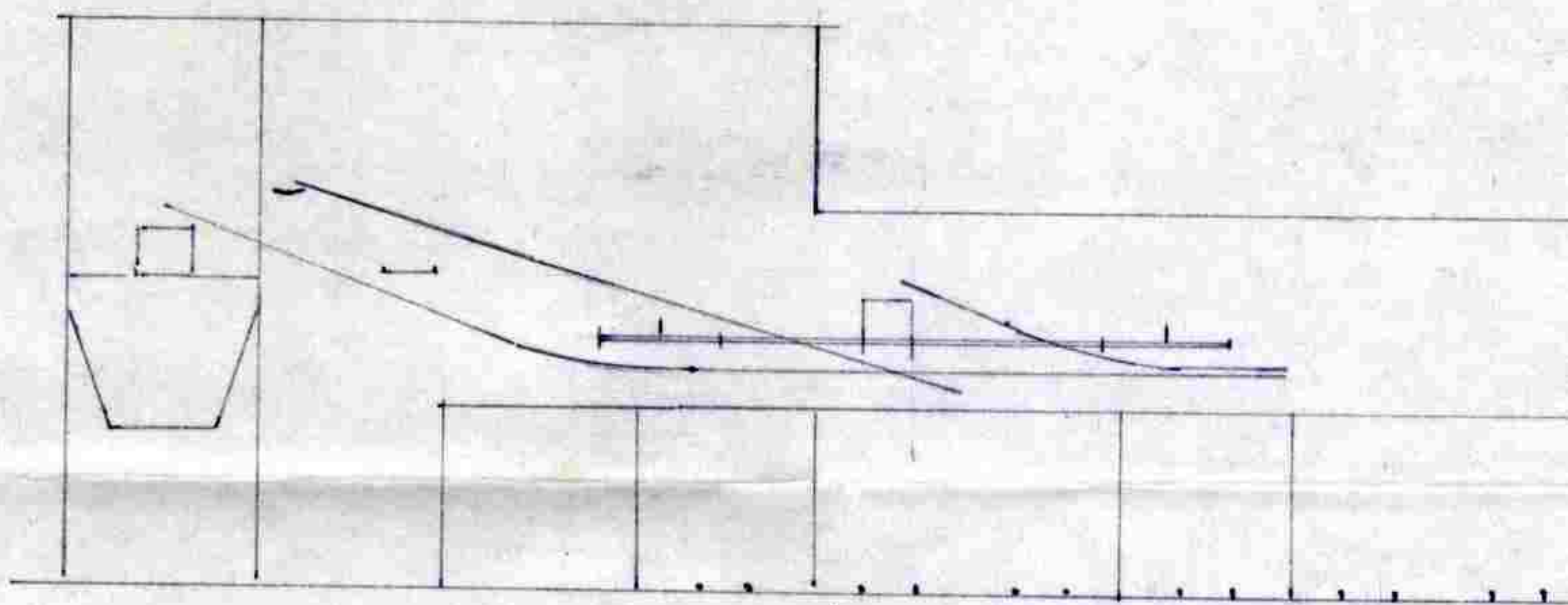
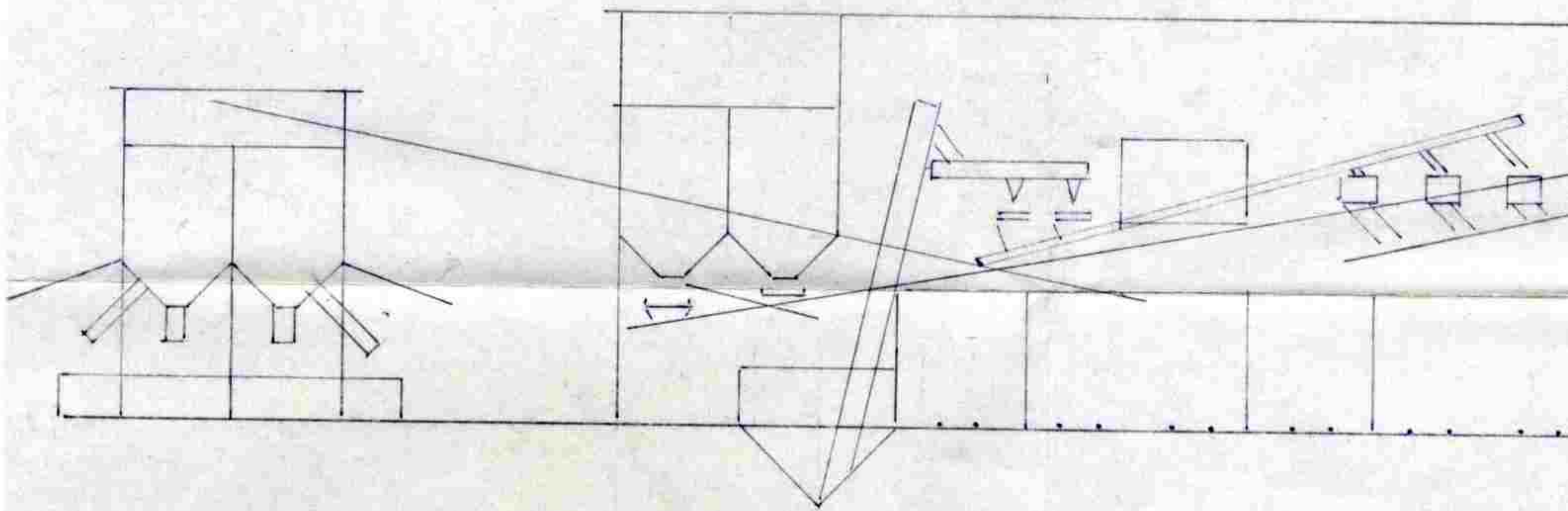
Large House

Large Best

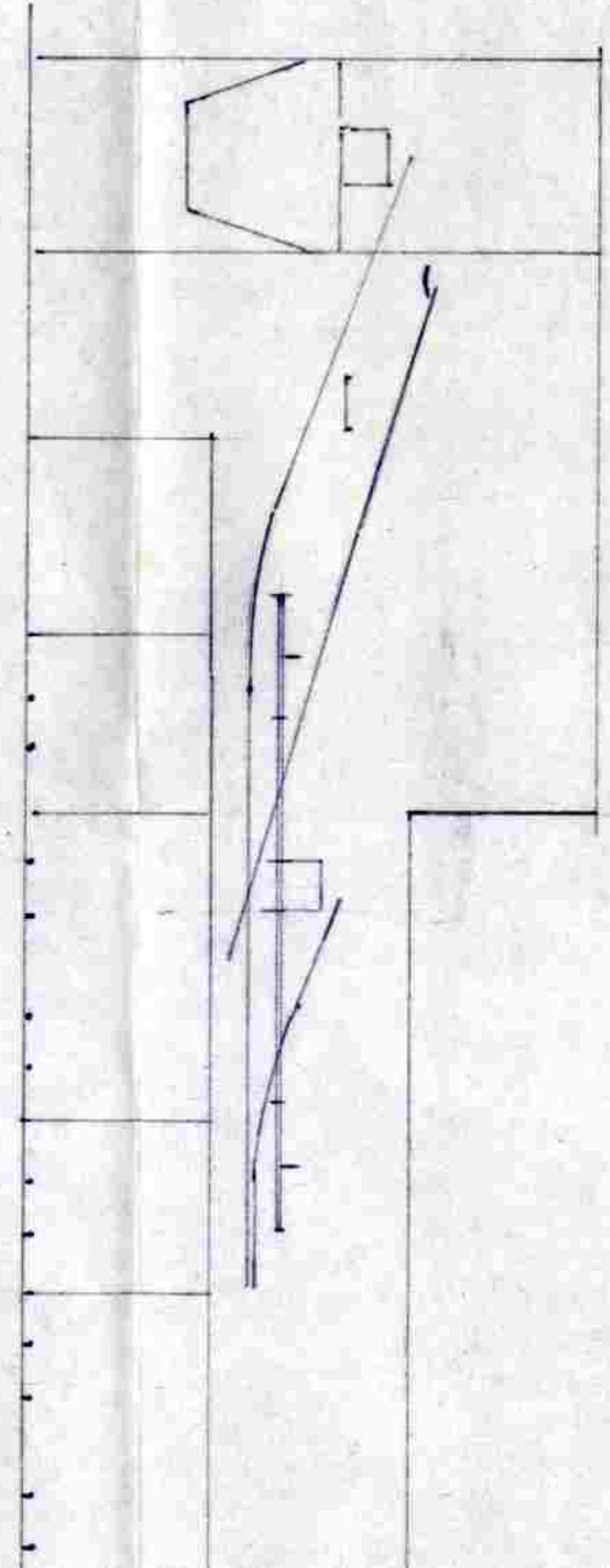
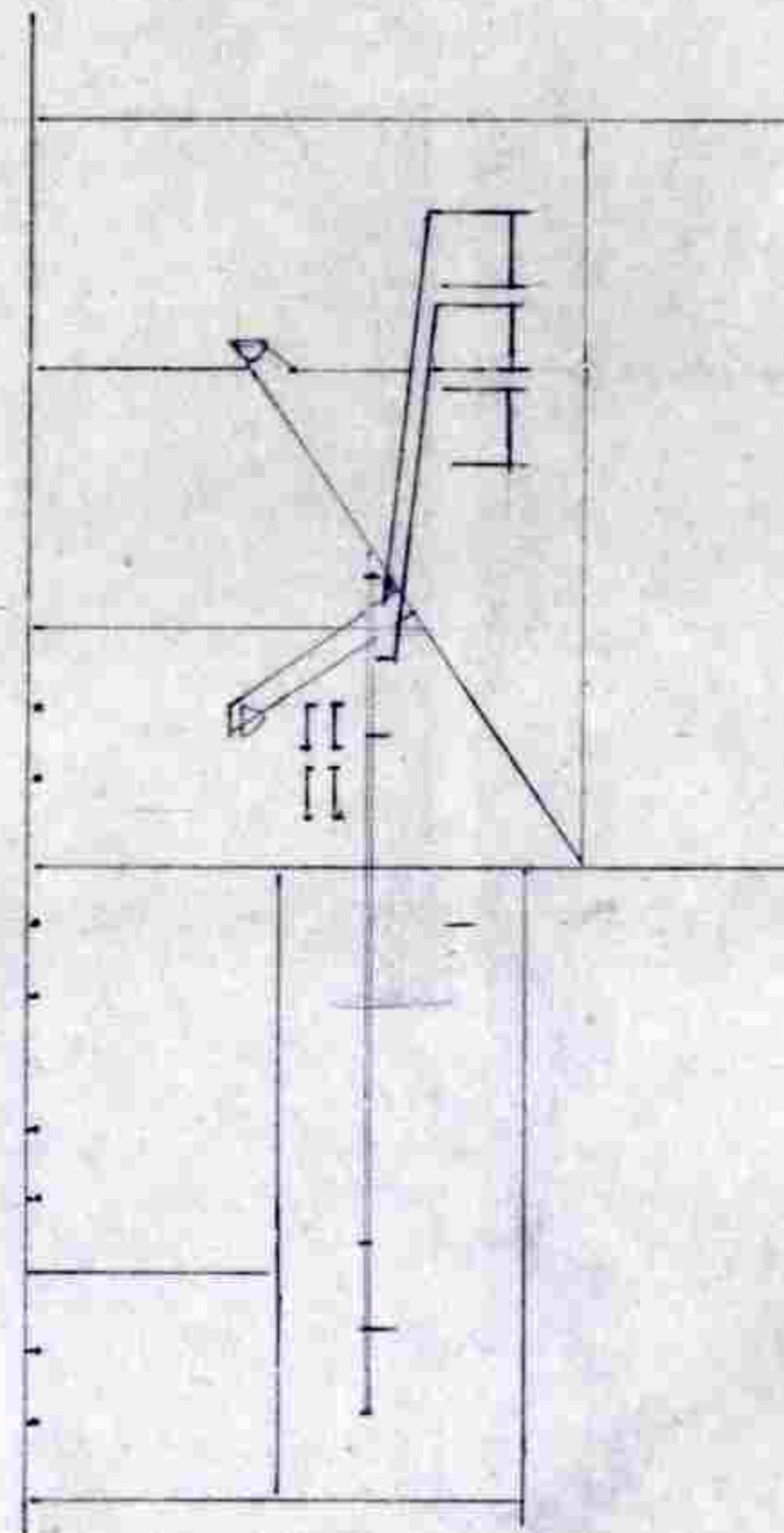
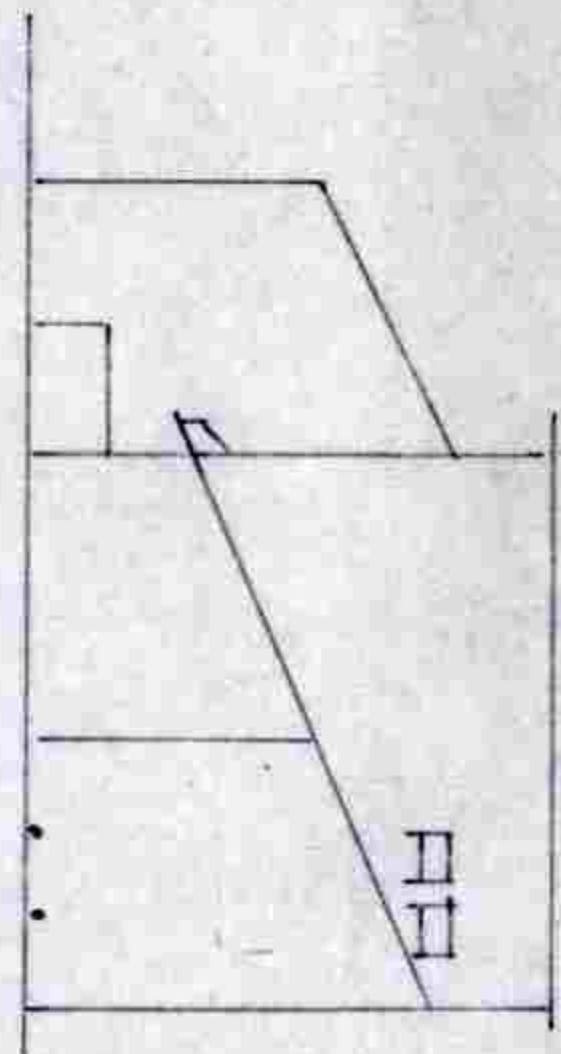


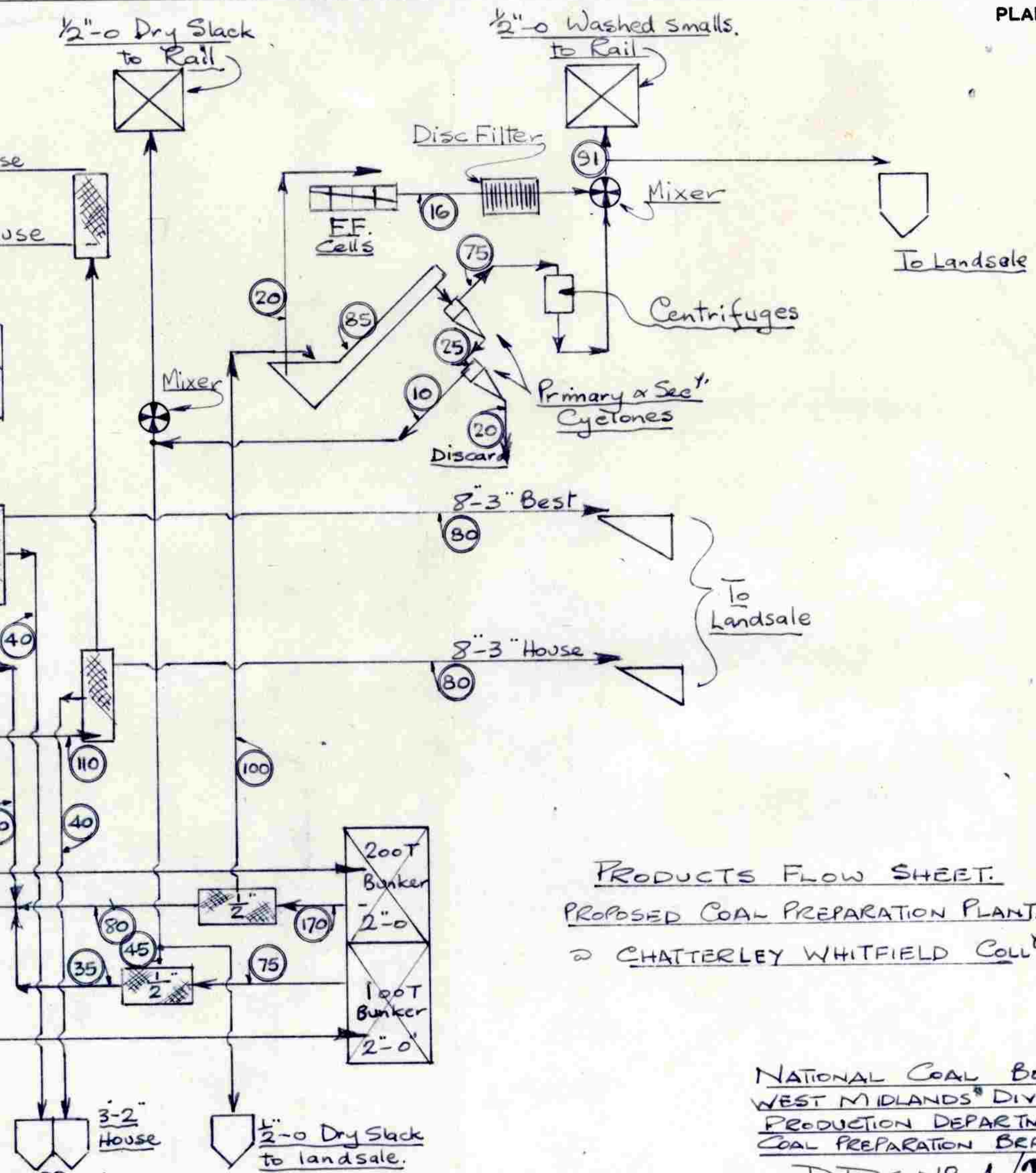
Doubles } Singles







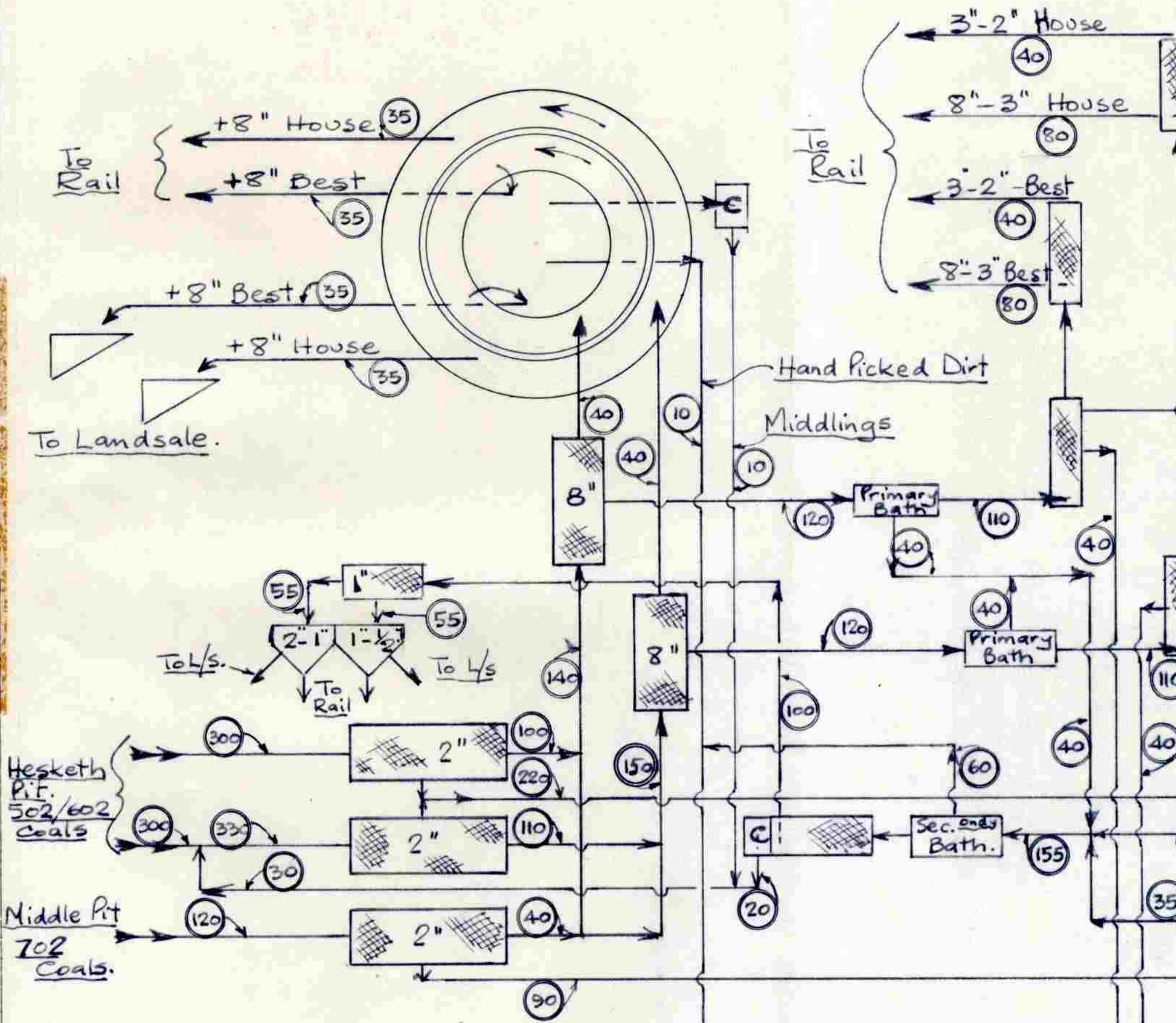




PRODUCTS FLOW SHEET.  
PROPOSED COAL PREPARATION PLANT.  
at CHATTERLEY WHITFIELD COLL<sup>y</sup>.

NATIONAL COAL BOARD.  
WEST MIDLANDS<sup>d</sup> DIVISION.  
PRODUCTION DEPARTMENT.  
COAL PREPARATION BRANCH.

DRG N<sup>o</sup> 1/205.  
 3/1/61.



○ Weights (Ton/hour) shown in circles thus - (on dry basis)

Dirt Outloading Bunker (Road)

3"-2" Best

To Lands