

30th March, 1961

NI/GP/61/23

NATIONAL INSTITUTE FOR RESEARCH IN NUCLEAR SCIENCE

GENERAL PURPOSES COMMITTEE

Roads, Car Parks and Footpaths at the Rutherford Laboratory

Note by the Chairman of the Rutherford Laboratory Building Committee

The following paper requests approval for additional funds for the completion of certain roads partly constructed, and the construction of additional roads, footpaths and car parks required for the efficient functioning of the Rutherford Laboratory.

1. The cost of construction of certain of the roads on the Rutherford Laboratory site has increased since the original approval was given in paper NI/GP/60/32. The reason for the increase is that the estimate for the construction was based on Phase I and Phase II contracts whereas the work has been or will be carried out on later contracts which reflect the general increase in building prices; also certain constructional details have required amendment owing to ground conditions not being as originally envisaged. The increases are as follows:-

	<u>Present Approved Sum</u>	<u>Revised Estimate</u>
	<u>£</u>	<u>£</u>
(a) Road 4 extension westwards to join Road No. 1 including kerbing and drainage all as previously described. (Cost per yard run is £42)	6,000	7,200
(b) Road 6 running North/South linking Roads 4 and 5 including kerbing and drainage. (Cost per yard run is £40. 10. Od.)	5,000	6,100
(c) Road 5 additional funds to construct island link road (extra to Road 5). (Cost per yard run is £60)	3,100	3,400
	<u>14,100</u>	<u>16,700</u>

2. Certain additional roads and drains are required to be constructed to allow for the efficient development and functioning of the Rutherford Laboratory. These new roads are as follows:-

- (a) A Link road running approximately parallel to the existing road to Dido between the main entrance to R.12 (P.L.A.) and Road 1 inside the Laboratory perimeter fence. This road will be the completing link of a site perimeter road and will provide the only road access within the fence between the P.L.A. buildings and the Nimrod area. The estimated cost of this work for road and drains is:-

£ 3,275

(Cost per yard run is £26. 10. Od.)

A sum of £1,675 has previously been included in the Phase I estimates for part of this work, a saving will therefore be made of this sum under the Phase 1 work.

- (b) The new main entrance road to the Rutherford Laboratory site will connect the existing site roads 1 and 4 with Fermi Avenue. The estimated cost of this work is:-

Roads and Drains	£16,500
Street Lighting	£ 1,500
	£18,000

(Cost per yard run is £36. 10. Od.)

- (c) A new entrance road off Fermi Avenue to the P.L.A. extension and Radiochemical Laboratory is to be formed on the existing runway. Adjacent to this road and still on the existing runway will be areas for car parking. However, the runway has been used as a contractors' road for the last few years and is badly broken up in places. The necessary repairs, drainage and surface finish, services ducts and lighting for the road and car parking space are estimated to cost:- £10,000
- (d) The scheme for the new Restaurant which has now been approved did not include for the construction of a service road, footpath external paved area and external drainage works. The estimated cost of these works is:- 7,000
- (e) A new road will be required to serve the new Heavy Laboratory and Office Block on the east side and the car parks on the south. This road will pass between the existing R.20 office block and the new office block. The estimated cost of this work is:-

Roads and Drains	2,600
Street Lighting	200
	£ 2,800

(Cost per yard run is £40. 10. Od.)

3. At present the only footpaths constructed or approved on the Rutherford Laboratory site are between the entrance to R.1 northwards to R.12 and Fermi Avenue, between R.20 and R.1, and between R.12 and the North Car Park. A footpath is urgently needed from the general R.1 area to the main entrance to the site and thence across A.E.R.E. land to the bus parks. The A.E.R.E. have agreed to the construction of the path on their land. The estimated cost of these footpaths is:- £ 1,350
- (Cost per yard run is £1. 16. Od.)
- Footpaths are also required between the general R.1 area and the new Restaurant and Lecture Theatre. The estimated cost of these footpaths is:- £ 400
- (Cost per yard run is £1. 16. Od.)

4. The car parking situation on the Rutherford Laboratory site is becoming increasingly difficult. As building developments reach a completion and staff recruitment progresses the number of cars requiring parking space also increases. It is estimated that by the period

1962/63 at least 1,000 people will be employed on the site daily (850 National Institute personnel, 150 University visitors). The present situation is further aggravated by the requirements of the Southern Works Organisation, the Construction Group and building and plant contractors. There will also be an unknown number of business and official visitors to the area. Car parking space for at least 500 cars will be required on the site. The cheapest possible means of construction will be used for all car parks, nevertheless, the overall price per car place is between £32 and £35. The new proposals are as follows and are indicated on attached drawing:-

	<u>No. of Cars</u>	<u>Present Approval £</u>	<u>New Estimate £</u>
A, B & C adjacent to R.12	76	-	Included in Para. 2C
D North Car Park	65 + buses	Already completed	-
E East of R.1	118	2,400	3,800
F East of R.20	80	950	2,800
G South of Heavy Duty Laboratory	102	-	3,600
H West of Heavy Duty Laboratory	26	-	700
I North of Heavy Duty Laboratory	24	-	1,700
J South of R.1	9	Already completed	-
North of Restaurant for regular outside visitors such as Reactor School and Medical Research Council	20		600
	<u>520</u>	<u>3,350</u>	<u>13,200</u>

Therefore increased cost is:-

£9,850

The relatively high cost of Item I is due to the need to construct concrete service ducts beneath the parking site. This is not connected with the use of the site for parking but is necessary because access for heavy vehicles to the heavy laboratories passes over its area.

5. A plan No. SW/S6630/CL/619 is attached showing all these proposals. The costs shown have been obtained from estimates provided by the Quantity Surveyor. It is proposed to carry out the majority of these works during the period 1961/62, sufficient funds being available in the approved estimates.

6. Approval is sought to carry out the schemes described above under the existing contracts within the estimates given below:-

	£
Additional costs of roads	2,600
New road works	41,075
Footpaths	1,750
Car Parks	9,850
	55,275
Fees	8,290
Total Cost	63,565

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Circulation:- To Members of the G.P.C.
To Members of the Governing Board for information

