

**CONTRACT NO. HY/99/02  
WIDENING OF FO TAN ROAD AND RELATED  
IMPROVEMENT MEASURES IN FO TAN**

**ENVIRONMENTAL MONITORING AND  
AUDIT REPORT NO. 41  
(for the month of June 2003)**

**JULY 2003**

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**Issue & Revision Record**

<b>Rev.</b>	<b>Date</b>	<b>Originator</b>	<b>Checked By</b>	<b>Approved</b>	<b>Description</b>
A	July 2003	Danny Ng	Anne Watker-Zeris (Environmental Team Leader)	K W Lee (Engineer)	Monthly Progress Report
Signature					

**Project Title:**

**Contract No.: HY/99/02  
Widening of Fo Tan Road and  
Related Improvement Measures in Fo Tan**

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## 1. EXECUTIVE SUMMARY

### Background

- 1.1 Highways Department Contract HY/99/02, “Widening of Fo Tan Road and Related Improvement Measures in Fo Tan”, has been awarded to Shun Yuen Construction/CNCEC Joint Venture, and work commenced on 1<sup>st</sup> Dec 1999. Physical works, as stated in Part B of the Variation of Environmental Permit, EP No.: [VEP-015/2000/B/EP-030](#), commenced in [Feb 2000](#) for completion by [July of 2003](#).

### Air Quality Monitoring

- 1.2 Air quality impact monitoring was carried out at one monitoring station (Rooftop of House No. 76 in Fo Tan Village) as shown in Figure 5.1 in [June 2003](#). The results are summarized in Table 1.1.

**Table 1.1 Summary of Air Quality Monitoring Results**

Parameter	Range of Results	No. of Exceedances	
		Action Levels	Limit Levels
1-hr TSP	<a href="#">60 µg/m<sup>3</sup> – 190 µg/m<sup>3</sup></a>	0	0
24-hr TSP	<a href="#">27 µg/m<sup>3</sup> – 91 µg/m<sup>3</sup></a>	0	0

### Noise Level Monitoring

- 1.3 The results for noise level impact monitoring at locations [CN3](#), [CN6](#), [CN8](#), [CN11](#), [CN12](#) and [CN13](#) as shown in Figure 6.2 during the Unrestricted Period in [June 2003](#) are summarized as Table 1.2.

**Table 1.2 Summary of Noise Level Monitoring Results**

Parameter	Location	Range of Results	No. of date of exceedance	
			Action Levels	Limit Levels
Unrestricted Period $L_{eq}$ (30min)	<a href="#">CN3</a>	<a href="#">All below baseline</a>	0	0
	<a href="#">CN6</a>	<a href="#">50.4 dB(A) – 70.3 dB(A)</a>	0	0
	<a href="#">CN8</a>	<a href="#">All below baseline</a>	0	0
	<a href="#">CN11</a>	<a href="#">All below baseline</a>	0	0
	<a href="#">CN12</a>	<a href="#">60.5 dB(A) – 64.2 dB(A)</a>	0	0
	<a href="#">CN13</a>	<a href="#">56.4 dB(A) – 67.9 dB(A)</a>	0	0

### Water Quality Monitoring

- 1.4 No water samples were taken from Sedimentation Pond Nos. 1, 2, 3, 4 and 5 in this reporting month, as there was no generation of wastewater from construction activities (i.e. no pre-bored H-piling works were carried out for the month of June 2003).

### Observations

- 1.5 No site inspection was conducted by EPD, LCO in the month of June 2003.
- 1.6 The wind data monitoring equipment recorded data at 5-minute intervals for the month of June 2003. The wind data recorded in the reporting month are contained in Appendix F.

### **Complaints**

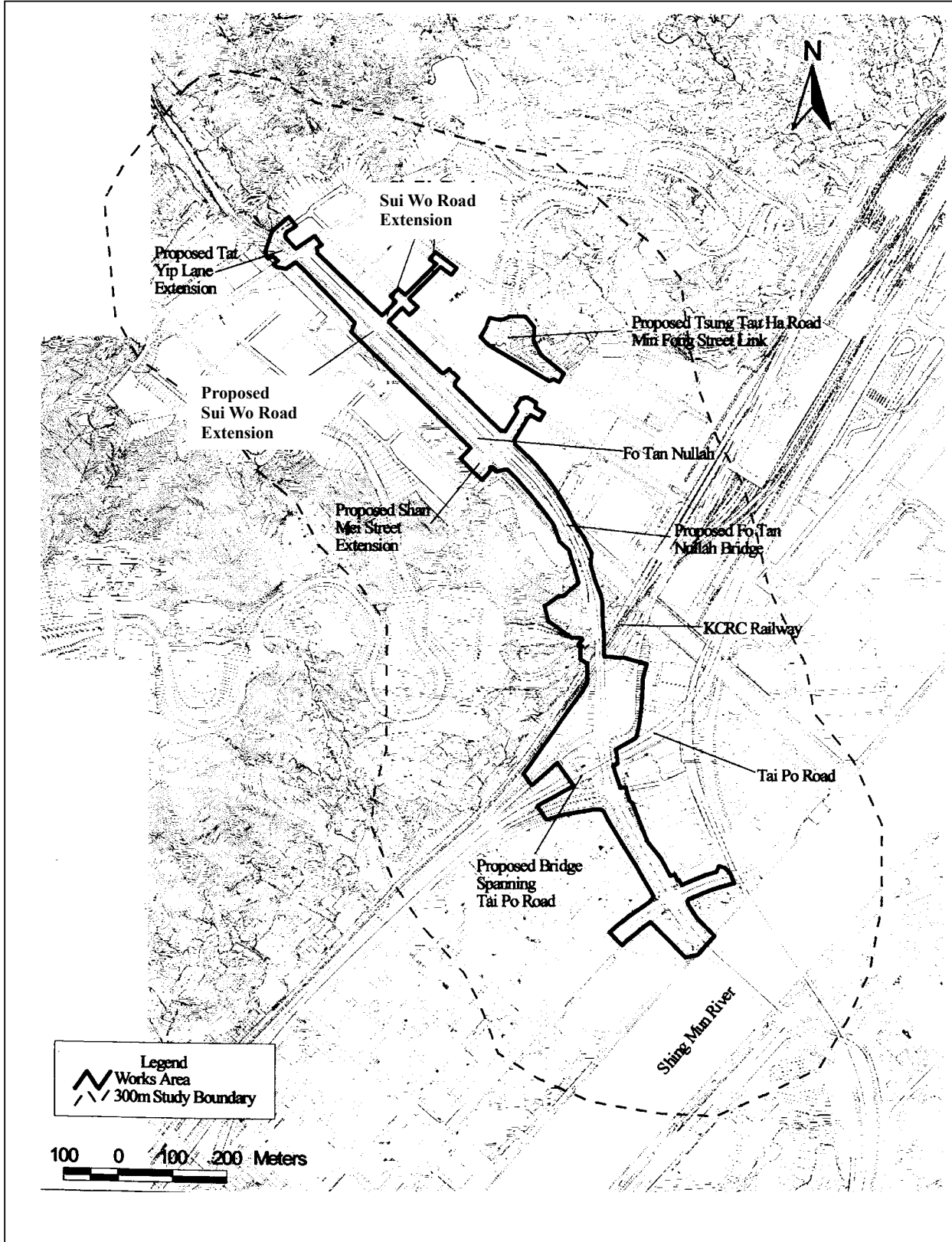
- 1.7 No complaints were received during June 2003.
- 1.8 A total of three (3) complaints have been received since the start of the Contract.


## 2. INTRODUCTION

### Scope of Works

- 2.1 Fo Tan Road is the only road providing access to the Fo Tan Industrial Area and the residential area of Sui Wo. According to the findings in the Working Paper 13 (September 94) of the Shatin and Ma On Shan (STMOS) District Traffic Study commissioned by Transport Department (TD), the critical junctions along Fo Tan Road were overloaded by between 10 % and 30 % in the morning peak hours and by between 10 % and 20% in the evening peak hours in 1994. The study predicted that upon full development of the Fo Tan area, the Fo Tan Road will be operating beyond its design capacity, and recommended that the existing Fo Tan Road was widened as a measure to improve the traffic congestion problems in Fo Tan, Shatin.
- 2.2 The proposed Sui Wo Road extension from Fo Tan Road to Kwei Tei Street also provides an additional access from Fo Tan Road to the eastern part of the industrial area. The additional entry route would help spread the traffic loading amongst the two critical junctions at Fo Tan Road/Tsung Tau Ha Road and Fo Tan Road/Min Fong Street which are currently overloaded by 10% during the morning peak hour.
- 2.3 At present, traffic accessing the south-eastern part of the Fo Tan industrial area have to use the two junctions at Fo Tan Road/Tsung Tau Ha Road and Fo Tan Road/Min Fong Street for ingress and egress. These two junctions are currently overloaded by 10% during the morning peak hour. The proposed new road linking Tsung Tau Ha Road and Min Fong Street will provide an additional route connecting the north-eastern part and the south-eastern part of the industrial area, thus alleviating the traffic congestion problem currently being experienced at these junctions.
- 2.4 The existing Tat Yip Lane comprises two cul-de-sac. Heavy goods vehicles, in particular container trucks, often experience difficulties when reversing in the cul-de-sac and cause obstructions to other vehicles entering and leaving the adjacent industrial buildings. The proposed extension of Tat Yip Lane to Kwei Tei Street will remove the cul-de-sac on the western half thus alleviating the traffic problems resulting from the reversing of heavy goods vehicles.
- 2.5 In May 1995, TD proposed implementation of the above improvement works to include the Project in the 1996 CWRP RAE for completion within the following five years (2 years for planning and design works plus another 3 years for construction). The tentative scheduling for the construction period is between 1999 and 2002.
- 2.6 The works area of the Contract: HY/99/02 is shown in Figure 2.1
- 2.7 The key environmental issues of this project include air quality, water quality and construction noise. Air and water quality monitoring has been performed by the Contractor, under the supervision of Engineer's Representative (ER). Noise level monitoring is carried out by the Resident Site Staff (RSS) using equipment and qualified assistants provided by the Contractor.
- 2.8 According to section 1.4 of the revised EM&A Manual (Revision C), the ET will report directly to the Engineer. Hence, all EM&A reports, including the subject report, are prepared on behalf of the Engineer.





	Title:	Mott Connell Limited
	<b>Fo Tan Road Study Area</b>	Contract No.: HY/99/02
		Drawing No.: Figure 2.1

**Project Organization**

2.9 The project organization of the Contract is shown as follows:

<b>THE CLIENT</b> <b>(HyD/NT, Government of HKSAR)</b>	
Contact Person:	Mr Greg Leung (Tel.: 2716 1043) (Fax.:2715 3573)
<b>THE ENGINEER</b> <b>(Mott Connell Limited – MCL)</b>	
Director:	Mr K W Lee (Tel.: 2828 5757) (Fax.: 2827 1823)
Head Office	Resident Site Staff
Project Engineer: Dr H T Cheng (Tel.: 2828 5898)	Senior Resident Engineer: Mr Bill Reynolds (Tel.: 21454909)
Environmental Team Leader: Dr Anne Watker-Zeris (Tel.: 2828 5793)	
<b>Contractor:</b> <b>Shun Yuen Construction &amp; CNCEC JV</b>	
Site Agent:	Mr K. O. Sheng (Tel.: 2690 1293) (Fax.:2690 1639)

**Programme**

2.10 The most up-to-date Master Programme which has been submitted by the contractor is attached as Figure 2.2.

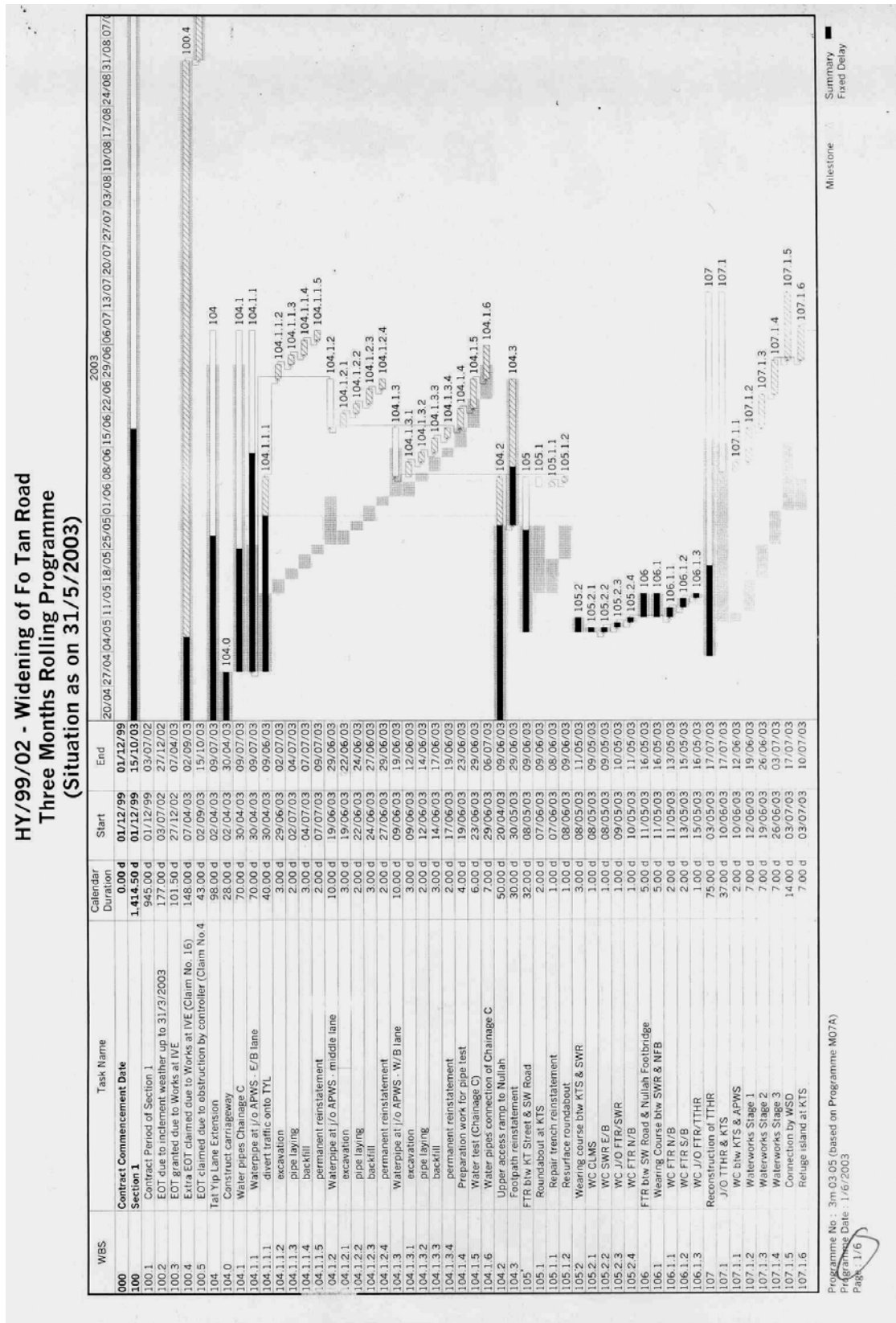


Figure 2.2 – Sheet 1 of 6

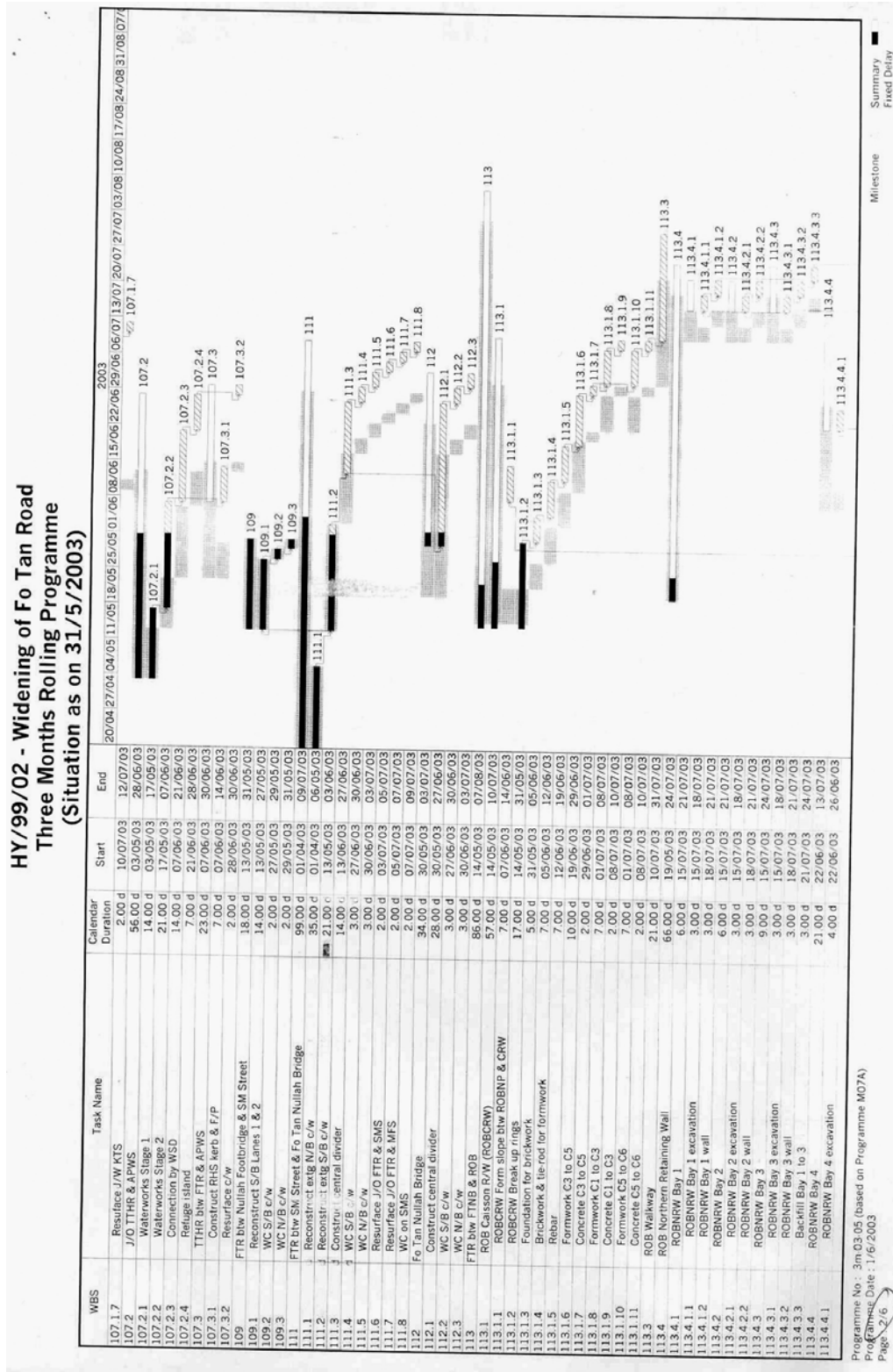


Figure 2.2 – Sheet 2 of 6

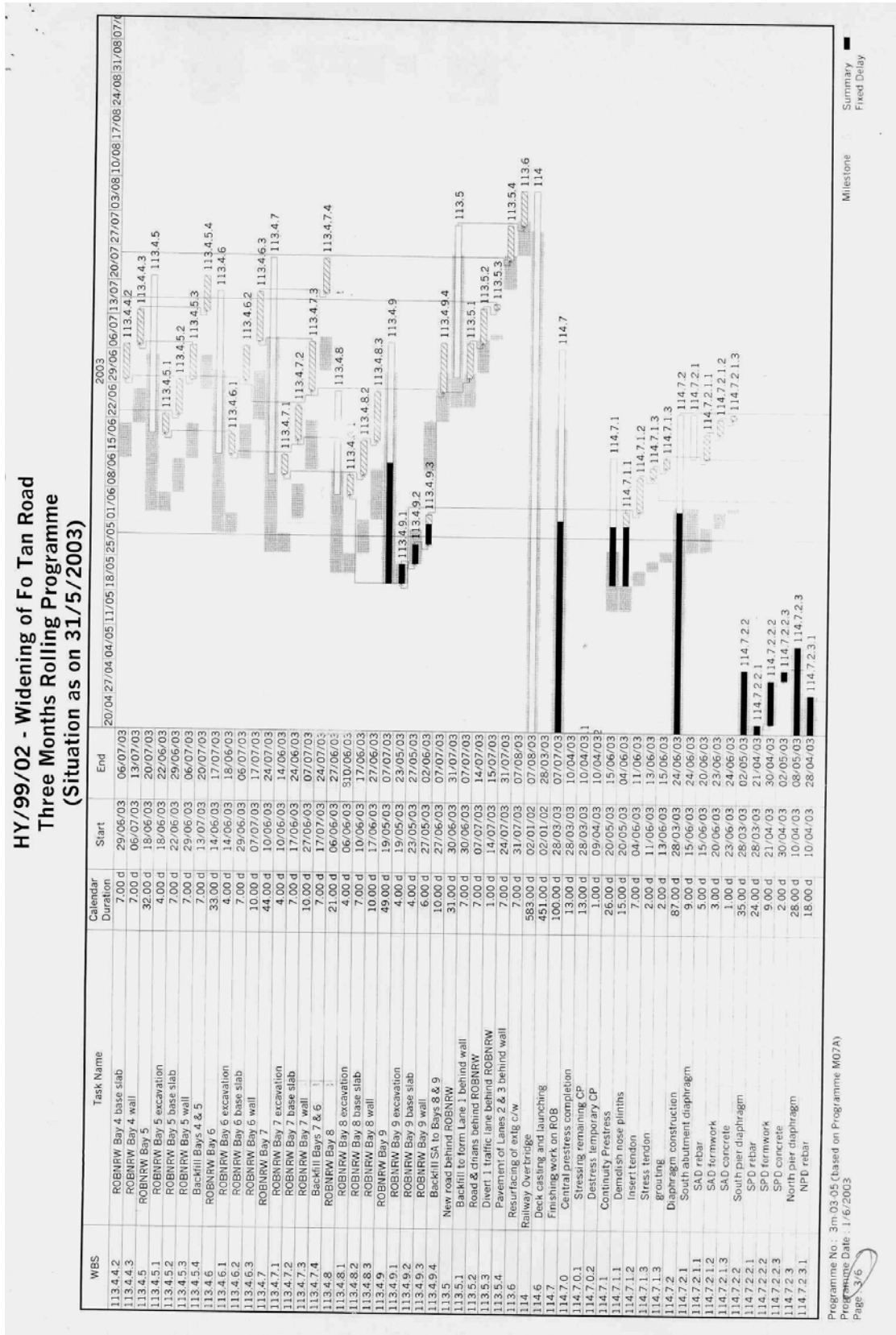


Figure 2.2 – Sheet 3 of 6

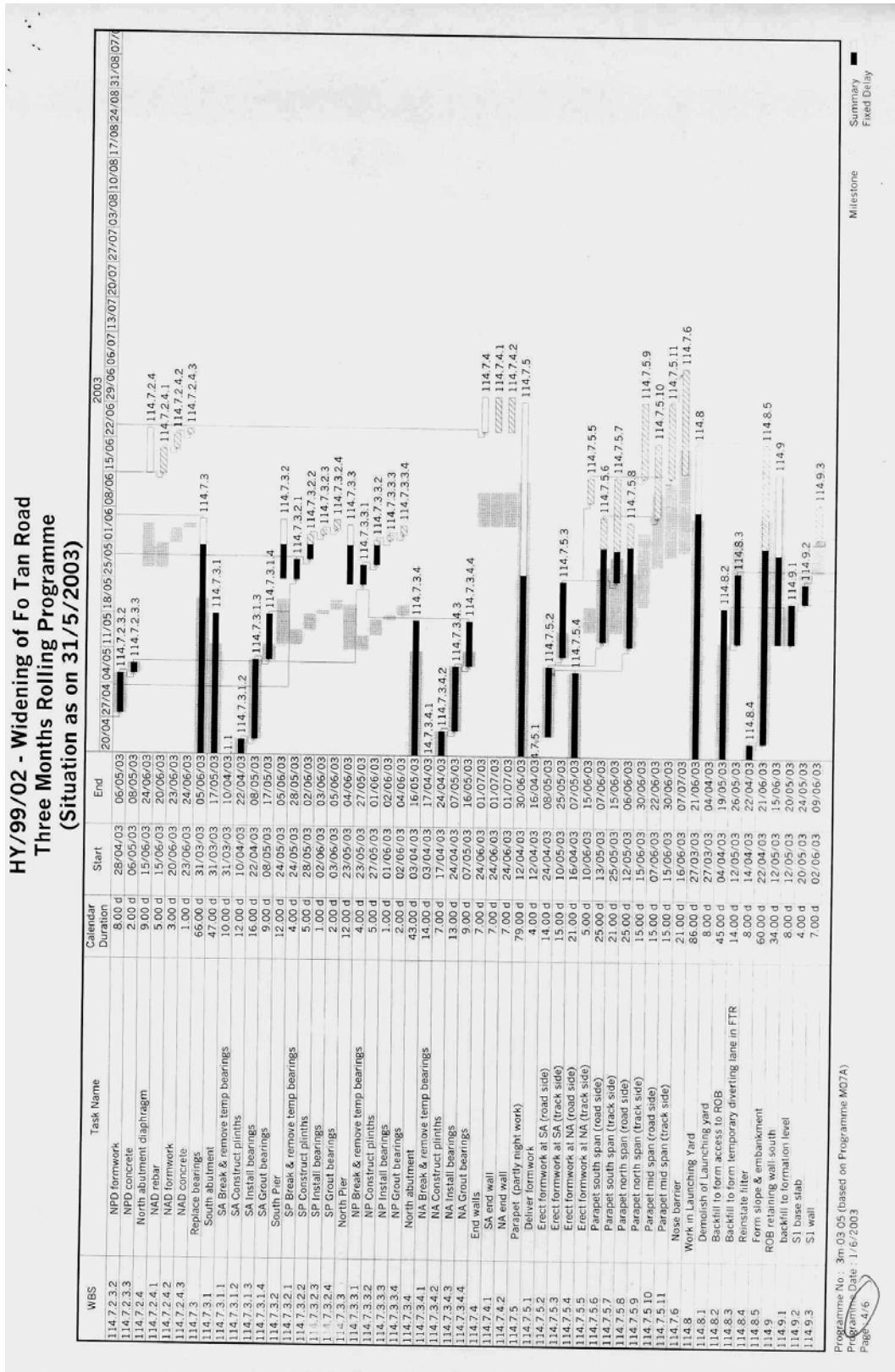
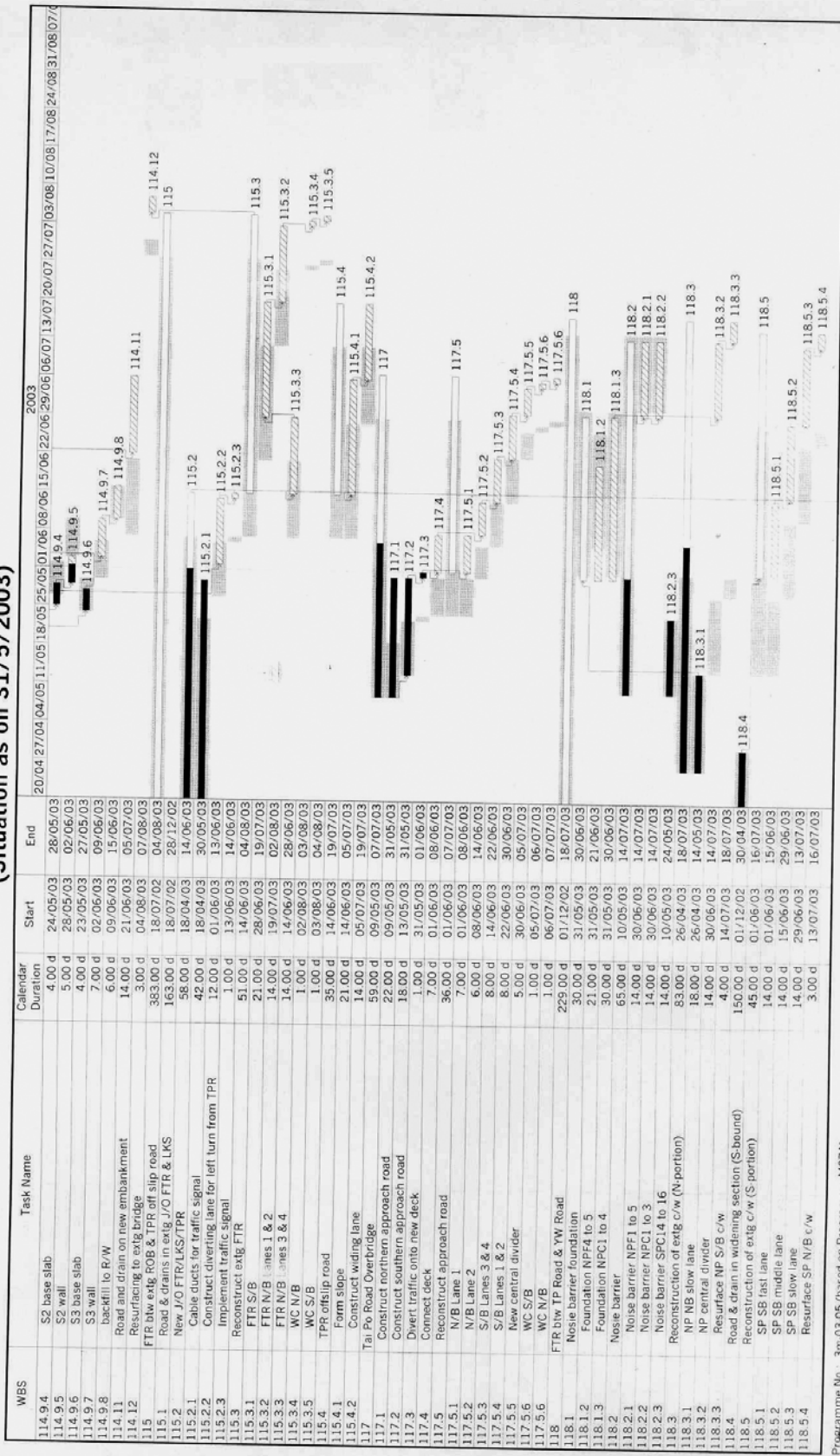


Figure 2.2 – Sheet 4 of 6

**HY/99/02 - Widening of Fo Tan Road  
 Three Months Rolling Programme  
 (Situation as on 31/5/2003)**



Programme No.: 3m 03.05 (based on Programme M07A)  
 Programme Date: 1/6/2003  
 Page: 5/6

Figure 2.2 – Sheet 5 of 6

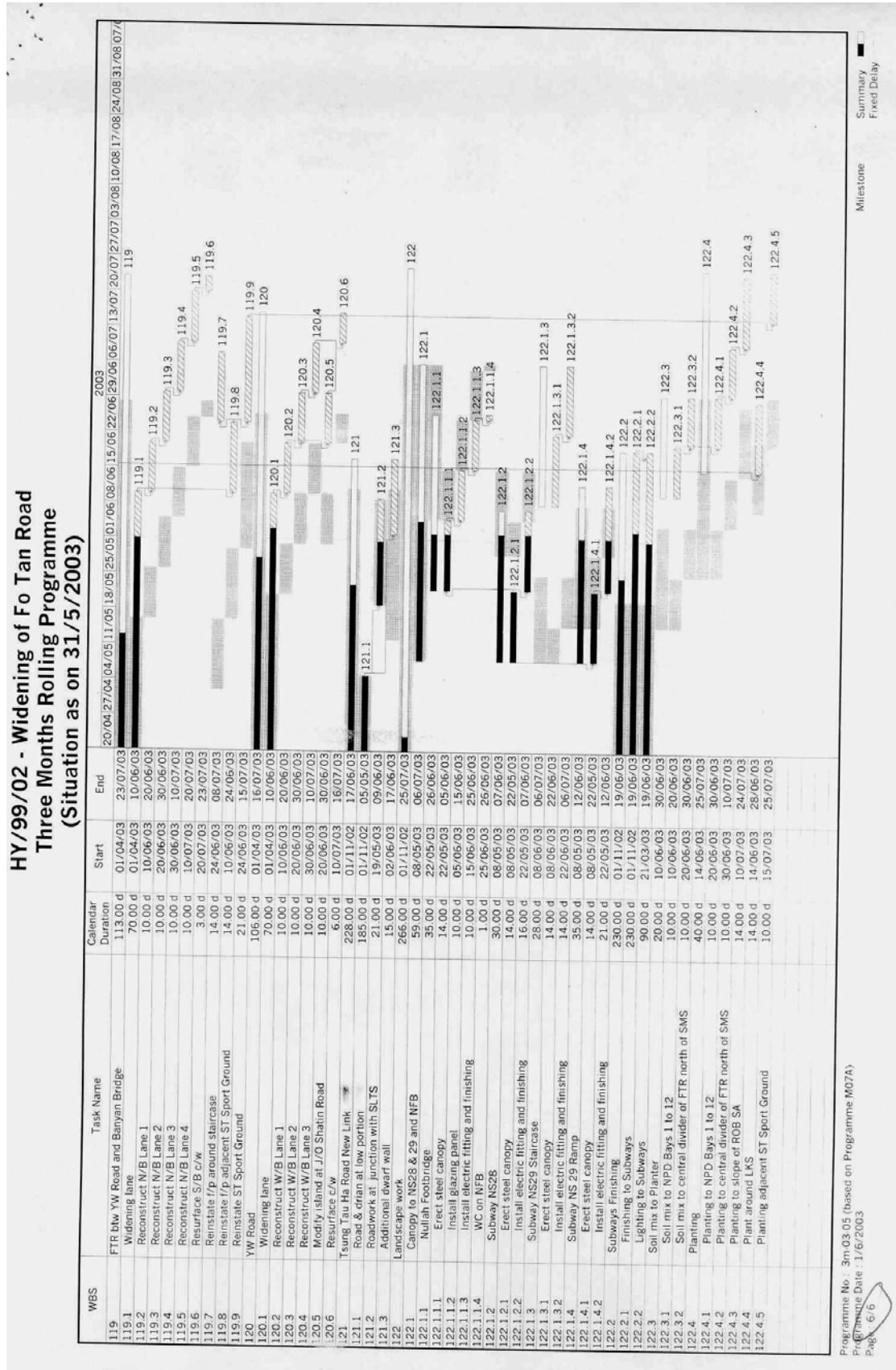


Figure 2.2 – Sheet 6 of 6



### 3. WORK UNDERTAKEN DURING THIS MONTH

#### 3.1 Major works carried out in Contract HY/99/02 Contractor in this reporting period included:

- (i) Construction of noise barriers adjacent to Wo Che Estate and IVE(ST) – anticipated to be completed by 31/7/03.
- (ii) Installation of roof canopy of Subway NS29 adjacent to Sha Tin Sports Ground – anticipated to be completed by 31/7/03.
- (iii) Finishes and lighting fittings to Subway NS28 adjacent to IVE(ST) – anticipated to be completed by 31/7/03.
- (iv) Construction of central divider at Tai Po Road Overbridge – anticipated to be completed by 31/7/03.
- (v) Construction of parapet of Railway Overbridge – anticipated to be completed by 31/7/03.
- (vi) Construction of central divider at Fo Tan Nullah Bridge – anticipated to be completed by 31/7/03.
- (vii) Construction of slope at Turning Tee “A” at Fo Tan Village – anticipated to be completed by 31/7/03.
- (viii) Re-construction of existing carriageway at Nullah Partial Decking – anticipated to be completed by 31/7/03.
- (ix) Construction of footpath at Tat Yip Lane Extension – anticipated to be completed by 31/7/03.

