

DEPARTMENT OF BUILDING SURVEYING FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING UNIVERSITI TEKNOLOGI MARA PERAK

TITLE (THE CONSTRUCTION OF MANHOLE FOR SEWERAGE PIPE LINE)

MARVEEN AK POL (2011262508) DIPLOMA IN BUILDING SURVEYING

PRACTICAL TRAINING REPORT DECEMBER 2013 – MARCH 2014

DECLARATION:		
I hereby admit that this reparts that are attached from		my own efforts, except for the certain ified in reference chapter.
Prepared By:		
()	Date:
Approved By:		
(Supervising Lecturer)	Date:

Acknowledgements

Firstly, I would like to give thanks to God for his blessing and for showering me knowledge and guidance to enable me to finish my course work successfully.

I would also like to express a thousand thanks especially to my supervisor lecturer Sr. Dr. Mohd Fadzil Mat Yasin for his help, advices and guidance that he had given me while I was doing this course work in the follow ups until I'm successfully completed this report.

Next, I would also like to express a thousand thanks especially to my supervisor at the company Mr. Andrew Lalung (Project Manager) for his help, advices and guidance that he had given me while I was doing this course work in the follow ups until I'm successfully completed this report.

Besides that, I would also like to thank to Wekajaya Sdn Bhd. group because willing to help me during my practical period in the company. Although intermittent, I appreciate and enjoyed every moment that we have been through.

Lastly, I would like to thank my parents for giving a lot of moral support and encouragement in term of mentally, physically, financially and transportation.

TABLE OF CONTENT

	CONTENT	PAGE
	wledgement of Content Figure	I – III IV V – VI VII – IX X
	Chapter One: Introduction	
1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 1.10 1.11 1.12 1.13 1.14 1.15 1.16	Training Date Company Supervisors About Company Company Background Company Logo Company Address Company Motto Company Vision Company Policy Company Objectives Corporate Information Organization Chart Location Of Office Adjacent Building Completed Project Current Project	2 2 2 3 4 5 5 5 5 5 5 6 7 8 9 10 10
	Chapter Two: Precast Manhole	
2.1 2.2 2.3 2.4 2.5	Constructing A New Manhole Adoptable Manhole Cover Slabs Manhole Covers Basic Guide To Calculating Falls And Gradients For Drainage	12-14 15-16 17-18 19-20 21-26

List Of Figure

Chapter 1

Figure Number	Figure Detail
Figure 1.1 Figure 1.2 Figure 1.3 Figure 1.4 Figure 1.5 Figure 1.6	The Office The Office Size Company Owner Key Plan Location Plan Site Plan
Figure 1.7 Figure 1.8 Figure 1.9 Figure 1.10 Figure 1.11 Figure 1.12 Figure 1.13 Figure 1.14	Building View Office Block Gallery house Residential Area Perodua Regional Distribution Centre Wisma Lim Kim Soon Wisma Kueh Hock Kui Menara ZECON

Chapter 2

Figure Number	Figure Detail
Figure 2.1	Manhole
Figure 2.2	Manhole cross-section
Figure 2.3	PCC Manhole components
Figure 2.4	Manhole in plan view
Figure 2.5	Sectional concrete inspection chamber with crown unit and cover
Figure 2.6	Idealised Adoptable Deep Manhole Cross-section
Figure 2.7	Idealised Adoptable Manhole Plan view
Figure 2.8	Rectangular Cover Slab
Figure 2.9	Circular Cover Slab
Figure 2.10	Cross Section Of Manhole
Figure 2.11	Cast and Ductile Iron Covers
Figure 2.12	Manhole cover and frame construction
Figure 2.13	Opening double-triangular cover with MH keys
Figure 2.14	Recess Tray Covers