



Supplemental/Bid Bulletin No. 5 December 22, 2021

PUBLIC BIDDING No. 21-147-7

Advance Works Package 1 (AWP1): Demolition, Tree Cutting and Utility Relocation for CP102, CP103, CP104, CP105 and CP108

Issued pursuant to Sec. 22.5 of the IRR of R.A. 9184 to clarify and/or amend certain provisions in the Bidding Documents issued for this project:

AMENDMENTS/INCLUSIONS

REFERENCE	BASIS FOR AMENDMENT/ INCLUSIONS
SECTION VIII. BILL OF QUANTITIES	
Please see attached Annex "A" for the updated Bill of Quantities. For the editable version, please refer to this link https://drive.google.com/drive/u/0/folders/1eu0VjqrM5Pde https://drive.google.com/drive/u/0/folders/1eu0VjqrM5Pde DYMimtm1uIHR-q2xJmee	Notice is hereby issued as requested by the End-User.

By Rules, all other related provisions in the Bidding Documents correspondingly affected by these amendments are likewise deemed amended to conform to this Bid Bulletin.

Amendments made herein shall be considered an integral part of the Bidding Documents.

SIGNATURE REDACTED

ULYSSES E. MORA

Chairperson, Bids and Awards Committee VII



DEPARTMENT OF TRANSPORTATION METRO MANILA SUBWAY PROJECT PHASE 1

ADVANCE WORKS PACKAGE 1 (AWP1): DEMOLITION, TREE CUTTING AND UTILITY RELOCATION FOR CP102, CP103, CP104, CP105 and CP108

PAY ITEM	DESCRIPTION	QТΥ	UNIT	UNIT COST	TOTAL COST
PART A	PRELIMINARIES AND GENERAL REQUIREMENTS				
	Provision of Field Office for the Engineers				
A.1.1(3)	Provision of Field Office Space for the Engineer Rental basis		Months		
	Provision of Furnitures/Fixtures, Equipment, & Appliances for the Field Office				
	for the Engineer		ls		
A.1.1(16)	Operation and Maintenance of Field Office for the Engineers		Months		
	Service Vehicle for the Engineer on Bare Rental Basis, 12 Seater		Months		
	Service Vehicle for the Engineer on Bare Rental Basis, 7 Seater		Months		
A.1.2(5)-A	Operation and Maintenance of Service Vehicle for the Engineer (Rental Basis), 12 Seater		Months		
	Operation and Maintenance of Service Vehicle for the Engineer (Rental Basis), 7 Seater		Months		
A.1.4(1)	Provision of Progress Photographs		ea		
	Other General Requirements				
	Temporary Field Office		Is		
	Permits and Clearances		Is		
B.5	Project Billboards / Signboards		ls		
B.7 (2)	Occupational Safety and Health Programs		Is		
B.8 (2)	Traffic Management During Construction		ls		
	Environmental Management and Monitoring		Months		
	Removal and Disposal of Septic and Other Hazardous Wastes		ls		
	, , , , , , , , , , , , , , , , , , , ,				
	SUB-TOTAL PART A				
PART B	DEATAILED DESIGN				
			1-		
	Drainage and Relocation of CP102 to CP104 & CP108		ls		
В.2	Utilities Relocation for CP105 (Waterline, Sewrline, Gas Line, Drainage Line)		ls		
	SUB-TOTAL PART B				
	SURVEY				
	CP 102				
C.1.1	Quezon Avenue Station				
C.1.b	Utilities Survey		Is		
C.1.2	East Avenue Station				
C.1.a	Dilapidation Survey (Pre Construction and Post Construction Survey)		ls		
C.1.b	Utilities Survey		ls		
C.2	CP 103				
C.2.1	Anonas Station				
C.1.a	Dilapidation Survey (Pre Construction and Post Construction Survey)		Is		
	Utilities Survey		Is		
	Camp Aguinaldo Station				
	Utilities Survey		ls		
	CP 104		.,		
	Ortigas Station		1		
			J.		
	Dilapidation Survey (Pre Construction and Post Construction Survey)		ls		
	Utilities Survey		ls		
	Shaw Station		 		
	Dilapidation Survey (Pre Construction and Post Construction Survey)		ls		
	Utilities Survey		ls		
	CP 105				
	Kalayaan Station				
	Utilities Survey		ls		
	BGC Station				
	Utilities Survey		Is		
	CP 108				
C.5.1	Lawton Station				
C.1.a	Dilapidation Survey (Pre Construction and Post Construction Survey)		Is		
C.1.b	Utilities Survey		Is		
C.5.2	Senate Station				
C.1.a	Dilapidation Survey (Pre Construction and Post Construction Survey)		ls		
	SUB-TOTAL PART B				
	JUB-IUIAL PARI D				
PART C	STRUCTURE DEMOLITION				
	CP 102				
	Quezon Avenue Station				
	Structures		sq.m		
	Removal of Billboards (2 sets)		lot		
	East Avenue Station				
	CP 103		sq.m		
	Anonas Station				
			i .	1	I .
	Structures		sq.m		

C.2.1.2	Removal of LPG and Diesel Fuel Tanks Containment Wall		lot	
	Removal of Sump Pit		lot	
	Removal of STP		lot	
C.2.1.4				
24441	Relocation of WCMC Signage		lot	
	Removal and Relocation of Access Road		lot	
C.3	CP 104			
C.3.1	Ortigas Station		sq.m	
C.3.2	Shaw Station		sq.m	
C.5	CP 108			
C.5.1	Lawton Station			
	Demolition of Affected Amenity pool in NAMRIA		lot	
	Senate Station		sq.m	
0.5.2	Senate Station		34	
	CUR TOTAL BART C			
	SUB-TOTAL PART C			
PART D	TREE REMOVAL			
D.1	CP 102			
D.1.1	Quezon Avenue Station			
	Tree Cutting			
100(3)a.1	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm		ea	
100(4)6	DBH 751mm up		ea	
L	Earth Balling			
	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
100(5)c	DBH 301mm to 500mm		ea	
100(5)d	DBH 501mm to 750mm		ea	
100(5)e	DBH 751mm up		ea	
	East Avenue Station			
l	Tree Cutting			
100(2) 2 1	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm		ea	
100(4)b	DBH 751mm up		ea	
	Earth Balling			
100(5)a	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm			
			ea	
	DBH 751mm up		ea	
D.2	CP 103			
D.2.1	Anonas Station			
	Tree Cutting			
100(3)a.1	DBH 50mm to 150mm		ea	
100(3)a.2	DBH 151mm to 300mm		ea	
100(3)b	DBH 301mm to 500mm		ea	
100(4)a	DBH 501mm to 750mm		ea	
	DBH 751mm up		ea	
100(1)5	Earth Balling			
100(5)2	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
100(5)d	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm		ea	
	DBH 501mm to 750mm DBH 751mm up		ea	
100(5)e	DBH 501mm to 750mm DBH 751mm up		ea	
100(5)e D.2.2	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station		ea	
100(5)e D.2.2 100(3)a.1	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm		ea ea	
100(5)e D.2.2 100(3)a.1 100(3)a.2	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm		ea ea ea	
100(5)e D.2.2 100(3)a.1 100(3)a.2 100(3)b	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm		ea ea ea ea	
100(5)e D.2.2 100(3)a.1 100(3)a.2 100(3)b 100(4)a	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 750mm		ea ea ea ea ea	
100(5)e D.2.2 100(3)a.1 100(3)a.2 100(3)b 100(4)a	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 750mm DBH 501mm to 750mm DBH 751mm up		ea ea ea ea	
100(5)e D.2.2 100(3)a.1 100(3)a.2 100(3)b 100(4)a 100(4)b	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 501mm to 750mm DBH 751mm up Earth Balling		ea ea ea ea ea ea	
100(5)e D.2.2 100(3)a.1 100(3)a.2 100(3)b 100(4)a 100(4)b	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 501mm to 750mm DBH 51mm up Earth Balling DBH 50mm to 150mm		ea ea ea ea ea ea	
100(5)e	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 351mm up Earth Balling DBH 551mm up Earth Balling DBH 551mm to 150mm DBH 151mm to 150mm		ea ea ea ea ea ea ea	
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100(5)e D.2.2 100(3)a.1 100(3)a.2 100(3)b 100(4)b 100(5)b 100(5)c 100(5)d 100(5)c D.3	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 501mm to 750mm DBH 751mm up Earth Bailling DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 750mm		ea e	
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100(5)e	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 750mm DBH 751mm up Earth Balling DBH 501mm to 750mm DBH 501mm to 750mm DBH 501mm to 750mm DBH 751mm up Earth Balling DBH 151mm to 300mm DBH 301mm to 500mm DBH 751mm to 750mm DBH 751mm up CP 104 Ortigas Station Tree Cutting DBH 501mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 501mm to 500mm		ea e	
100(5)e D.2.2 100(3)a.1 100(3)a.2 100(3)b 100(4)b 100(5)b 100(5)c 100(5)c 100(5)c D.3 D.3.1 100(3)a.2 100(3)b 100(4)b 100(4)b 100(4)b	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 750mm DBH 751mm up Earth Balling DBH 50mm to 150mm DBH 301mm to 500mm DBH 50mm to 150mm DBH 51mm up CP 104 Ortigas Station Tree Cutting DBH 50mm to 150mm DBH 301mm to 300mm DBH 301mm to 300mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 51mm to 300mm DBH 301mm to 500mm DBH 51mm to 500mm		ea e	
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100(5)e	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 151mm to 500mm DBH 301mm to 500mm DBH 515mm up Earth Balling DBH 51mm to 300mm DBH 301mm to 500mm DBH 51mm up CP 104 Ortigas Station Tree Cutting DBH 50mm to 150mm DBH 301mm to 500mm DBH 311mm up CP 104 Ortigas Station Tree Lotting DBH 50mm to 150mm DBH 515mm to 300mm DBH 351mm up DBH 351mm to 300mm DBH 351mm to 300mm DBH 351mm to 300mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 551mm up Earth Balling DBH 551mm to 150mm DBH 151mm to 300mm DBH 551mm to 500mm DBH 551mm to 500mm DBH 551mm to 500mm DBH 501mm to 550mm		ea e	
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100(5)e	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 501mm to 750mm DBH 751mm up Earth Balling DBH 50mm to 150mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 301mm to 750mm DBH 751mm up CP 104 Ortigas Station Tree Cutting DBH 50mm to 150mm DBH 301mm to 500mm DBH 51mm to 300mm DBH 51mm to 500mm DBH 301mm to 500mm DBH 351mm to 500mm DBH 351mm to 500mm DBH 351mm to 500mm DBH 351mm to 550mm DBH 751mm up Shaw Station Tree Cutting DBH 50mm to 150mm		ea e	
100(5)e	DBH 501mm to 750mm DBH 751mm up Camp Aguinaldo Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 750mm DBH 751mm up Earth Balling DBH 301mm to 300mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 301mm to 500mm DBH 751mm up CP 104 Ortigas Station Tree Cutting DBH 50mm to 150mm DBH 151mm to 300mm DBH 301mm to 500mm DBH 51mm to 300mm DBH 301mm to 500mm DBH 51mm to 300mm DBH 51mm to 500mm		ea e	

100(3)b	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm		ea	
	DBH 751mm up		ea	
100(4)6	Earth Balling		Ca	
100(5)	-			
	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
100(5)c	DBH 301mm to 500mm		ea	
100(5)d	DBH 501mm to 750mm		ea	
100(5)e	DBH 751mm up		ea	
D.4	CP 105			
D.4.1	Kalayaan Station			
	Tree Cutting			
100/3\2 1	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm			
			ea	
	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm		ea	
100(4)b	DBH 751mm up		ea	
	Earth Balling			
100(5)a	DBH 50mm to 150mm		ea	
100(5)b	DBH 151mm to 300mm		ea	
	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm		ea	
	DBH 751mm up		ea	
	BGC Station			
0.4.2				
	Tree Cutting			
	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
	DBH 301mm to 500mm		ea	
100(4)a	DBH 501mm to 750mm		ea	
100(4)b	DBH 751mm up		ea	
	Earth Balling			
100(5)a	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm		ea	
	DBH 751mm up		ea	
D.5	CP 108			
D.5.1	Lawton Station			
	Tree Cutting			
100(3)a.1	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
	DBH 301mm to 500mm			
			ea	
	DBH 501mm to 750mm		ea	
100(4)b	DBH 751mm up		ea	
	Earth Balling			
	DBH 50mm to 150mm		ea	
100(5)b	DBH 151mm to 300mm		ea	
100(5)c	DBH 301mm to 500mm		ea	
100(5)d	DBH 501mm to 750mm		ea	
	DBH 751mm up		ea	
	Senate Station			
0.3.2				
400(0)	Tree Cutting			
	DBH 50mm to 150mm		ea	
100(3)a.2	DBH 151mm to 300mm		ea	
100(3)b	DBH 301mm to 500mm		ea	
100(4)a	DBH 501mm to 750mm		ea	
100(4)b	DBH 751mm up		ea	
,,,,	Earth Balling			
100(5)a	DBH 50mm to 150mm		ea	
	DBH 151mm to 300mm		ea	
	DBH 301mm to 500mm		ea	
	DBH 501mm to 750mm		ea	
100(5)e	DBH 751mm up		ea	
	SUB-TOTAL PART D			
PART E	UTILITY DIVERSION (DRAINAGE ONLY)			
E.1	CP 102			
	Quezon Avenue Station			
	STORM DRAINAGE			
	Drainage Line Diversion			
	Removal of road pavement		sq.m	
	Excavation		cu.m	
	Backfill		cu.m	
	Installation of MMDA Storm Drainage, RCP (910 mm dia)		lm	
500(1)a	Installation of Vertis North Drainage, RCP(610 mm dia)		lm	
	Installation of Vertis North Drainage, RCP(1050 mm dia)		lm	
	Installation of Vertis North Drainage Manhole		unit	
	Installation of road pavement		sq.m	
	Diversion Road			
311(1)3.4.1			sq.m	
<u> </u>	Sub-total E.1.1			
	East Avenue Station			
E.1.2.1	SEWER AND STORM DRAINAGE			
E.1.2.1.b	Sewer and Drainage line diversion			
	Removal of road pavement		sq.m	
	Removal of Sidewalk		sq.m	
101(4)b	Removal of Curb and Gutter		lm	

103(6)			
	Excavation	cu.m	
103(3)	Backfill	cu.m	
	Installation of QC LGU Storm Drainage, RCP (610 mm dia)	lm	
	Installation of QC LGU Storm Drainage, RCP (910 mm dia)		
		lm 	
	Installation of QC LGU Drainage Manhole	unit	
	Installation of Sewer Manhole	unit	
	Installation of Sidewalk	sq.m	
600(3)	Installation of Curb and Gutter	lm	
311(1)a.4.1	Installation of road pavement	sq.m	
500(1)g.1	Sewer line (MWCI Used Waterline)	lm	
	Sub-total E.1.2		
	Sub-total E.1 (CP102)		
E.2	CP 103		
	Camp Aguinaldo Station		
	STORM DRAINAGE		
	Sidewalk Removal	sq.m	
	Excavation	cu.m	
	Backfill	cu.m	
	Removal of Camp Aguinaldo Storm Drainage Piping System	lm	
101(1)d.3	Removal of Camp Aguinaldo Storm Drainage Manhole	nos.	
502(1)a.1	Installation of drainage manhole	nos.	
	Sub-total E.2.2		
	Sub-total E.2 (CP103)		
	, ,		
E.3	CP 104		
	Ortigas Station		
	STORM DRAINAGE		
	Drainage Line Diversion		
	Pavement Removal	sq.m	
101(3)c		sq.m	
	Curb & Gutter Removal	lm	
103(6)	Excavation	cu.m	
103(3)	Backfill	cu.m	
500(1)a	Installation of PASIG LGU Drainage system (24")RCP	lm	
	Installation of drainage manhole	nos.	
	Pavement restoration	sq.m	
	Sidewalk Restoration	cu.m	
600(3)	Curb & Gutter Restoration	lm	
	Sub-total E.3.1		
E.3.2	Shaw Station		
E.3.2.1	STORM DRAINAGE		
E.3.2.1.b	Drainage line Removal and Diversion		
101(3)a.2	Pavement Removal	sq.m	
	Sidewalk Removal	sq.m	
	Curb & Gutter Removal	lm	
	Excavation	cu.m	
	Backfill	cu.m	
	Removal of MMDA Drainage Pipe (760 mm dia, RCP)	lm.	
	Removal of MMDA Drainage Pipe (460 mm dia, RCP)	lm.	
	Removal of MMDA Drainage Pipe (300 mm dia, RCP)	lm.	
	Removal of Manhole (910mm dia RCP)	lm.	
101(1)d.1	Removal of Manhole (610mm dia RCP)	Nos.	
	Removal of Manhole (460mm dia RCP)		
101(1)d.1.a		Nos.	
	Removal of Manhole (300mm dia RCP)	Nos.	
101(1)d.1.a			
101(1)d.1.a 500(1)c	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP)	Nos.	
101(1)d.1.a 500(1)c 7924.571882	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE)	Nos. Im.	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia,RCP)	Nos. Im. Im. Nos.	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia,RCP) Pavement Restoration	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b)	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia,RCP) Pavement Restoration Sidewalk restoration	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b)	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia,RCP) Pavement Restoration	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b)	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b)	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3.2	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b)	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b) 600(3)	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3.2 Sub-total E.3.3 (CP104)	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b) 600(3)	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b) 600(3)	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3.2 Sub-total E.3 (CP104) CP 105 Kalayaan Station	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b) 600(3) E.4 E.4.1	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b) 600(3) E.4 E.4.1	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3.2 Sub-total E.3 (CP104) CP 105 Kalayaan Station	Nos. Im. Im. Nos. sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b) 600(3) E.4 E.4.1.1 101(3)c	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE	Nos. Im. Im. Nos. sq.m sq.m	
101(1)d.1.a 500(1)c 7924.57184 502(1)c.1 311(1)a.4.1 601(b) 600(3) E.4 E.4.1.1 101(3)c 101(3)a.2	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3.2 Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk	Nos. Im. Im. Nos. sq.m sq.m	
101(1)d.1.a 500(1)c 7924.571882 502(1)c.1 311(1)a.4.1 601(b) 600(3) E.4 E.4.1.1 101(3)c 101(3)a.2	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Road Pavement Excavation	Nos. Im. Im. Nos. sq.m sq.m	
E.4 E.4.1. 101(3)c. 103(3)c. 103(3)c. 103(3)c.	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill	Nos. Im. Im. Nos. sq.m sq.m Im.	
E.4 E.4.1. 101(3)a.2 103(3) 101(2)a 101(1)a.3 101(1)a.4.1	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Excavation Backfill Removal of Drainage line (610 mm dia. RCP)	Nos. Im. Im. Nos. sq.m sq.m Im.	
E.4 E.4.1.1 101(3)d.2 103(6) 103(6) 101(3)d.103(6) 101(3)d.103(6) 101(3)d.101(Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, HDPE) Installation of Drainage Manhole (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im.	
E.4. E.4.1. 101(3)a 103(3) 101(2)a 101(2)a 101(1)d 101(2)a	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration Sub-total E.3 (CP104) Curb & Gutter Restoration WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia. RCP) Removal of Manhole (610 mm dia. RCP) Removal of Drainage line (910 mm dia. RCP)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m cu.m	
E.4 E.4.1.1 101(3)a.2 103(3) 101(2)a 101(1)d.3 101(2)a 101(1)d.3	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia, RCP) Removal of Manhole (610 mm dia, RCP) Removal of Manhole (910 mm dia)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im.	
E.4 E.4.1.1 101(3)a.2 103(3) 101(2)a 101(1)d.1 101(2)a 101(1)d.1 101(2)a 101(1)d.1 101(2)c	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia. RCP) Removal of Manhole (610 mm dia) Removal of Manhole (910 mm dia)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im.	
E.4 E.4.1.1 101(3)a.2 103(3) 101(2)a 101(1)d.1 101(2)a 101(1)d.1 101(2)a 101(1)d.1 101(2)c	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia, RCP) Removal of Manhole (610 mm dia, RCP) Removal of Manhole (910 mm dia)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im.	
E.4 E.4.1. 101(3)d. 1.03(6) 101(3)d. 101(2)d. 10	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia. RCP) Removal of Manhole (610 mm dia) Removal of Manhole (910 mm dia)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im.	
E.4 E.4.1. 101(1)d.3 500(1)c 311(1)a.4.1 601(b) 600(3) E.4 E.4.1. 101(3)c 101(3)a. 101(2)a 101(1)d.3 101(2)b 101(1)d.3 101(2)c 101(1)d.3	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Drainage line (910 mm dia, RCP) Removal of Manhole (610 mm dia) Removal of Manhole (910 mm dia) Removal of Materiane	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m cu.m cu.m im nos. Im	
E.4 E.4.1.1 101(3)a.2	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia) Removal of Drainage line (910 mm dia, RCP) Removal of Drainage line (910 mm dia, RCP) Removal of Manhole (910 mm dia) Removal of Materline Installation of BGC Sewer line (PVC 300 mmø)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m im.	
E.4 E.4.1. 101(3)d. 101(3)d. 101(2)d. 1	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Sidewalk Removal of Pavement Excavation Backfill Removal of Drainage line (610 mm dia. RCP) Removal of Manhole (610 mm dia. RCP) Removal of Manhole (910 mm dia. RCP) Removal of Master Sewer line (910 mm dia. RCP) Removal of Master Sewer line (910 mm dia. RCP) Removal of Master Sewer line (910 mm dia. RCP) Removal of Master Sewer line (910 mm dia. RCP) Removal of Gasline Removal of Gasline Removal of Sec Sewer line (PVC 300 mmø) Installation of BGC Sewer line manhole	Nos. Im. Im. Nos. sq.m sq.m Im. Im. Sq.m sq.m Im. Im. Im. Im. Im. Im. Im. Im. Im. I	
E.4 E.4.1.1 101(3)d.3(3) 101(2)a 101(2)g.2 500(1)g.1 500(1)g.2 500(1)g.1 500(1)g.2	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Curb & Gutter Restoration Curb & Gutter Restoration CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia, RCP) Removal of Drainage line (910 mm dia, RCP) Removal of Waterline Removal of Salaya (910 mm dia, RCP) Removal of Waterline Installation of BGC Sewer line (PVC 300 mmø) Installation of BGC Uptown Drainage line (RCP 610 mmø) Installation of BGC Uptown Drainage line (RCP 610 mmø) Installation of BGC Uptown Drainage line (RCP 610 mmø) Installation of BGC Uptown Drainage line (RCP 610 mmø) Installation of BGC Uptown Drainage line (RCP 610 mmø) Installation of BGC Uptown Drainage line (RCP 610 mmø) Installation of BGC Uptown Drainage Manhole with steel cover (610 mmø)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im. sq.m Im.	
E.4 E.4.1.1 101(3)c.103(3) 101(2)a 101(2)a 101(2)c.5 101(1)d.3	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia) Removal of Manhole (910 mm dia) Removal of Manhole (910 mm dia) Removal of Manhole (910 mm dia) Removal of Gasline Removal of Manhole (910 mm dia) Removal of Bosc Sewer line (PVC 300 mmø) Installation of BGC Sewer line manhole Installation of BGC Uptown Drainage line (RCP 610 mmø) Installation of BGC Uptown Drainage line (RCP 610 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø)	Nos. Im. Nos. sq.m Im. Nos. sq.m Im. Im. Im. Nos. sq.m Im. Im. Im. Im. Im. Im. Im. Im. Im. I	
E.4 E.4.1. 101(3)c 103(6) 101(3)c 101(Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia. RCP) Removal of Manhole (610 mm dia. RCP) Removal of Drainage line (910 mm dia. RCP) Removal of Manhole (910 mm dia. RCP) Removal of Manhole (910 mm dia. RCP) Removal of Waterline Installation of BGC Sewer line (PVC 300 mmø) Installation of BGC Sewer line manhole Installation of BGC Sewer line manhole Installation of BGC Uptown Drainage Manhole with steel cover (610 mmø) Installation of BGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of BGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of BGC Uptown Drainage Manhole with steel cover (910 mmø)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im. sq.m im. im. sq.m im. im. im. im. im. im. im. im. im. i	
E.4 E.4.1.1 101(3)c 103(3) 101(2)a 101(2)g 502(1)f 502(1)f 502(1)f 502(1)f 502(1)f 502(1)f 502(1)f 502(1)c	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia, RCP) Removal of Waterline Installation of BGC Sewer line (PVC 300 mmø) Installation of BGC Sewer line manhole Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im. sq.m im. im. sq.m cu.m cu.m im nos. im im. nos. im im. nos. im.	
E.4 E.4.1.1 101(3)c 101(3)c 101(3)c 101(3)c 101(3)c 101(3)c 101(2)c 101(1)d.3 101(2)c 101(1)d.3 101(2)c 500(1)c.1 502(1)f 500(1)c.2	Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910 mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia) Removal of Drainage line (910 mm dia, RCP) Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of Manhole (910 mm dia) Removal of Basline Removal of	Nos. Im. Nos. sq.m sq.m Im. Im. Im. Im. Im. Im. Im. Im. Im. I	
E.4 E.4.1.1 101(3)c 103(6) 103(6) 103(6) 101(2)c 101(2)c 101(2)c 101(2)c 101(2)c 101(2)c 101(2)c 101(3)c 101(2)c 101(3)c 101(2)c 101(3)c 101(Removal of Manhole (300mm dia RCP) Installation of MMDA Drainage pipe (910 mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Installation of Drainage pipe (910mm dia, RCP) Pavement Restoration Sidewalk restoration Curb & Gutter Restoration Sub-total E.3 (CP104) CP 105 Kalayaan Station WATER, GAS, SEWER AND STORM DRAINAGE Removal of Sidewalk Removal of Sidewalk Removal of Road Pavement Excavation Backfill Removal of Drainage line (610 mm dia, RCP) Removal of Drainage line (610 mm dia, RCP) Removal of Manhole (610 mm dia, RCP) Removal of Waterline Installation of BGC Sewer line (PVC 300 mmø) Installation of BGC Sewer line manhole Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage line (RCP 910 mmø) Installation of BGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø) Installation of SGC Uptown Drainage Manhole with steel cover (910 mmø)	Nos. Im. Im. Nos. sq.m sq.m Im. sq.m Im. sq.m im. im. sq.m cu.m cu.m im nos. im im. nos. im im. nos. im.	

601(b)	Sidewalk Restoration	sq.m	
	Pavement Restoration	sq.m	
311(1)0.7.1	Sub-total E.4.1	34.111	
l	Sub-total E.4.1		
l			
	BGC Station		
	WATER, GAS, SEWER AND STORM DRAINAGE		
103(6)	Excavation	cu.m	
103(3)	Backfill	cu.m	
101(3)c	Removal of Sidewalk	sq.m	
101(4)b	Removal of Curb and Gutter	lm	
101(3)a.2	Removal of Road Pavement	sq.m	
	Removal of Drainage line (910mm dia)	Im	
	Removal of Drainage Manhole (910mm dia)		
		nos.	
	Removal of Gasline	lm	
	Installation of BGC Sewer line (300 mm dia, PVC)	lm	
	Installation of BGC Sewer line manhole	no.	
500(1)c	Installation of BGC Uptown drainage line (910 mm dia, RCP)	Im	
502(1)c.2	Installation of BGC Uptown drainage manhole with steel cover (910 mmø)	nos.	
	Installation of Steel Pipe (900mm dia)	lm	
	Installation of Waterline	Im	
	Installation of Gasline	lm	
	Installation of Manhole (Gasline)	nos.	
	Sidewalk Restoration	sq.m	
600(3)	Curb and Gutter Restoration	lm	
311(1)a.4.1	Pavement Restoration	sq.m	
1	Sub-total E.4.2		
	Sub-total E.4 (CP105)		
l			
E.5	CP 108		
	Lawton Station		
	SEWER AND STORM DRAINAGE		
	MKW Sewer and Drainage Diversion		
	Removal of PCCP	sq.m	
101(3)c	Removal of Sidewalk	sq.m	
101(4)b	Removal of Curb and Gutter	lm	
103(6)	Excavation	cu.m	
103(3)	Backfill	cu.m	
	Installation of PVC Pipe ,150 mm dia	lm	
	Installation of Sewer Manhole	nos	
	Installation of Drainage Line (1200mm dia, RCP)	Im	
	Installation of Drainage manhole (1200mm RCP)	nos	
	Pavement Restoration	sq.m	
	Installation of Sidewalk	lm	
600(3)	Installation of Curb and Gutter	lm	
	Sub-total E.5.1		
	Sub-total E.5 (CP108)		
	SUB-TOTAL PART E		
PART F	CONSTRUCTION FENCE		
G.1	CP 102		
G.1.1	Quezon Avenue Station		
	Installation of G.I Post/Support	ea	
	Installation of G.I. Fence and Frame	Im	
	Removal of Construction Fence		
		lm	
	East Avenue Station		
	Installation of G.I Post/Support	ea	
	Installation of G.I. Fence and Frame	lm .	
604(2)b	Removal of Construction Fence	lm	
	Sub-total G.1 (CP102)		
G.2	CP 103		
	Anonas Station		
	Installation of G.I Post/Support	ea	
604(2)	Installation of G.I. Fence and Frame	lm	
604(2)b	Removal of Construction Fence	lm	
1	Sub-total G.2 (CP103)		
G.3	CP 104		
	Ortigas Station		
	Installation of G.I Post/Support	ea	
	Installation of G.I. Fence and Frame	Im	
	Removal of Construction Fence	Im	
	Shaw Station	1111	
	Installation of G.I Post/Support	ea	
	Installation of G.I. Fence and Frame	lm	
604(2)b	Removal of Construction Fence	lm	
	Sub-total G.3 (CP104)		
l			
G.4	CP 108		
G.4.1	Lawton Station		
	Installation of G.I Post/Support	ea	
	Installation of G.I. Fence and Frame	lm	
604(2)	Removal of Construction Fence	lm	
604(2) 604(2)b	Removal of Construction Fence	lm	
604(2)b 604(2)b G.4.2		lm ea	

60.4(0)	le construction of the con	1 1 .	1	
	Installation of G.I. Fence and Frame	lm I		
6U4(2)b	Removal of Construction Fence	Im		
	Sub-total G.4 (CP108)			
	SUB-TOTAL PART F			
DARTII	DEDECTRIAN MALIANAY			
	PEDESTRIAN WALKWAY			
	CP 102 Quezon Avenue Station			
	Installation of Temporary Pedestrian Walkway	sq.m		
	Concrete Barrier	lm		
	East Avenue Station			
601(b).1	Installation of Temporary Pedestrian Walkway	sq.m		
	Sub-total H.1 (CP102)			
H.2	CP 103			
H.2.1	Anonas Station			
601(b).1	Installation of Temporary Pedestrian Walkway	sq.m		
	Sub-total H.2 (CP103)			
	(**************************************			
H.3	CP 104			
	Ortigas Station			
	Installation of Temporary Pedestrian Walkway	- co m		
	Shaw Station	sq.m		
bU1(b).1	Installation of Temporary Pedestrian Walkway	sq.m		
	Sub-total H.3 (CP104)			
	SUB-TOTAL PART H			
PART I	PROVISIONAL SUM			
1.1	Relocation of LBL Facilities at Anonas Station			
	STP	lot		
	LPG Tank Farm	lot		
	Fuel Storage Room	lot		
	Sump pit	lot		
1.1.5		lot		
1.1.6	Detailed Design	lot		
1.2	Delegation of Utilities (Flestries) and Telegammunication) at Outiges Station			
1.2	Relocation of Utilities (Electrical and Telecommunication) at Ortigas Station			
I.2.1.a	Service Pedestal (Electrical and Telecommunication)	lot		
I.2.1.b	Electrical Duct Bank	lot		
I.2.1.c	Electrical Manhole	lot		
I.2.1.d	Telecommunication Duct Bank	lot		
	Telecommunication manhole	lot		
	Telecommunication manner			
12	Delegation of Utilities (Flestvice) and Telegammunication) at CD105			
	Relocation of Utilities (Electrical and Telecommunication) at CP105			
	Kalayaan Station			
	Service Pedestal (Electrical and Telecommunication)	lot		
	Electrical Duct Bank	lot		
1.3.1.c	Electrical Manhole	lot		
I.3.1.d	Telecommunication Duct Bank			
		lot		
I.3.1.e	Telecommunication manhole	lot lot		
I.3.1.e				
	Telecommunication manhole			
1.3.2	Telecommunication manhole BGC Station	lot		
I.3.2 I.3.2.a	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication)	lot		
1.3.2 1.3.2.a 1.3.2.b	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank	lot		
I.3.2a I.3.2.b I.3.2.c	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole	lot lot lot lot lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank	lot lot lot lot lot lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole	lot lot lot lot lot		
1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole	lot lot lot lot lot lot		
1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank	lot lot lot lot lot lot		
1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.c 1.3.2.d 1.3.2.e	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole	lot lot lot lot lot lot		
1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.c 1.3.2.e	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station	lot		
1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.c 1.3.2.e	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station	lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4.1	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Detailed Design	lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4.1	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station	lot		
1.3.2 a 1.3.2.b 1.3.2.c 1.3.2.c 1.3.2.d 1.3.2.d 1.3.2.d 1.3.2.e 1.4.1 1.4.1	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Detailed Design ROWA ASSISTANCE	lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4.1 1.4.1	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station ROWA ASSISTANCE Others	lot lot lot lot lot lot lot lot lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4 1.4.1 1.4.2	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Detailed Design ROWA ASSISTANCE Others Detailed Design & Construction of Access Ramp for WCP at Kalayaan Station	lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4 1.4.1 1.4.2	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station ROWA ASSISTANCE Others	lot lot lot lot lot lot lot lot lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4 1.4.1 1.4.2	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Detailed Design ROWA ASSISTANCE Others Detailed Design & Construction of Access Ramp for WCP at Kalayaan Station Contingency for Utility Diversion	lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4 1.4.1 1.4.2	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Detailed Design ROWA ASSISTANCE Others Detailed Design & Construction of Access Ramp for WCP at Kalayaan Station	lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4 1.4.1 1.4.2	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Detailed Design ROWA ASSISTANCE Others Detailed Design & Construction of Access Ramp for WCP at Kalayaan Station Contingency for Utility Diversion	lot		
1.3.2 1.3.2.a 1.3.2.b 1.3.2.c 1.3.2.d 1.3.2.e 1.4 1.4.1 1.4.2	Telecommunication manhole BGC Station Service Pedestal (Electrical and Telecommunication) Electrical Duct Bank Electrical Manhole Telecommunication Duct Bank Telecommunication Duct Bank Telecommunication manhole Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Replication of DMFB-EPD Outpost at Ortigas Station Detailed Design ROWA ASSISTANCE Others Detailed Design & Construction of Access Ramp for WCP at Kalayaan Station Contingency for Utility Diversion	lot		