

## **Consolidated Edison Company of New York, Inc.**

### **Rider X - Workpapers**

#### **Table of Contents**

<b>Schedule 1</b>	Electric Underground Facilities Rental Rate Calculation	5 pages
<b>Schedule 2</b>	Service Lateral Rental Rate Calculation	4 pages
<b>Schedule 3</b>	Innerduct/Telecom Manhole Use Rental Rate Calculation	1 page
<b>Schedule 4</b>	Tunnel Rental Rate Calculation	2 pages
<b>Schedule 5</b>	River Crossing Rental Rate Calculation	1 page
<b>Schedule 6</b>	Manhole Point of Entry / Exit Rental Rate Calculation	1 page
<b>Schedule 7</b>	Transmission Tower Attachment Rental Rate Calculation	1 page
<b>Schedule 8</b>	Rights-of-Way Calculation	1 page
<b>Schedule 9</b>	Telecommunications Manhole Average Cost Calculation	1 page
<b>Schedule 10</b>	Unused Telecom Manhole Average Cost Calculation	1 page

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 1  
Page 1 of 5

## Backbone/Spur Route Rate Calculation

**Formula based on FCC "Reconsideration Order", Appendix F-2, adopted May 22, 2001**

Rate = (1 / number of innerduct) X (Net Conduit Investment / Total System Conduit Footage) X Carrying Charge

Where;

			<u>Information Source</u>
Net Conduit Investment	(A)	3,101,219,915	Schedule 1, page 2 of 5
Carrying Charge	(B)	31.44%	Schedule 1, page 4 of 5
Total System Conduit Footage	(C)	135,025,780	Schedule 1, page 5 of 5
Rate per Foot of Innerduct (Existing Conduit)	= (1 / Number of Innerducts) X ( A / C ) X B		
Average Innerduct per Duct		2.94	Schedule 1, page 5 of 5
Rate per Foot of Innerduct (Existing Conduit)		<b>\$2.4559</b>	Annual Rate

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 1  
Page 2 of 5

## Net Conduit Investment Calculation

		<u>Information Source</u>
Gross Conduit Investment, Acct. 366	\$ 5,186,449,576	PSC Annual Report, p. 207, line 68, col g
Less Accumulated Depreciation, Acct. 366	1,296,075,077	Schedule 1, page 3 of 5
Less ADIT, Conduit	<u>789,154,584</u>	Schedule 1, page 3 of 5
Net Conduit Investment	\$ 3,101,219,915	

**ADIT & Accumulated Depreciation**

Formula based on FCC "Reconsideration Order", Appendix F-2, adopted May 22, 2001

**ADIT****Accounts 366, 367, 369**

ADIT (366, 367, 369) = [Gross Conduit Investment (Account 366, 367, or 369) / Total Gross Plant (electric)] X (Total ADIT Account 190, electric)

Given:

Information Source

Gross Conduit Investment, Account 366	A	5,186,449,576	PSC Annual Report, p. 207, line 68, col g
Gross UG Conductors and Devices Investment, Account 367	B	7,957,638,356	PSC Annual Report, p. 207, line 69, col g
Gross Services Conduit Investment, Account 369	C	933,444,919	PowerPlant CPR
Total Gross Plant, electric	D	34,150,184,069	PSC Annual Report, p. 200, line 8, col c
	E	5,196,189,398	Acct (281, 282, 283) - 190

Then:

ADIT, conduit, Account 366	= (A / D) X E	789,154,584
ADIT, UG Conductors and Devices, Account 367	= (B / D) X E	1,210,810,342
ADIT, services, Account 369	= (C / D) X E	<u>142,030,174</u>
		2,141,995,100

**Accumulated Depreciation****Accounts 366, 367, 369**Information Source

Electric Plant			
Accumulated Depreciation, Plant	F	8,534,008,054	PSC Annual Report, p. 200, line 22, col c
Gross Plant Investment	G	34,150,184,069	PSC Annual Report, p. 200, line 8, col c
Plant Depreciation Ratio, overall	= (F / G)	0.25	
Conduit, Account 366			
Gross Conduit Investment	H	5,186,449,576	PSC Annual Report, p. 207, line 68, col g
Plant Depreciation Ratio	I	<u>0.25</u>	
Accumulated Depreciation, Conduit	= (H X I)	1,296,075,077	
Underground Conductors and Devices, Account 367			
Gross UG Conductors and Devices Investment	J	7,957,638,356	PSC Annual Report, p. 207, line 69, col g
Plant Depreciation Ratio	K	<u>0.25</u>	
Accumulated Depreciation	= (J X K)	1,988,585,177	
Services, Account 369			
Gross Services Conduit Investment	L	933,444,919	PowerPlant CPR
Plant Depreciation Ratio	M	<u>0.25</u>	
Accumulated Depreciation, services	= (L X M)	233,264,525	

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 1  
Page 4 of 5

## **BACKBONE / SPUR Carrying Charge**

**Formula based on FCC "Reconsideration Order", Appendix F-2, adopted May 22, 2001**

### **PSC 366 Carrying Charge**

**A) Administrative Element** = Total A&G / (Gross plant - Depreciation - ADIT)

#### Information Source

Total A&G	599,272,993	PSC Annual Report, p. 323, line 205, col b
Gross Plant Investment, electric	34,150,184,069	PSC Annual Report, p. 200, line 8, col c
Accumulated Depreciation, plant	8,534,008,054	PSC Annual Report, p. 200, line 22, col c
	5,196,189,398	Acct (281, 282, 283) - 190

**Administrative Element                      2.93%**

**B) Maintenance Element** =  $\frac{\text{Account 594}}{[(\text{Book Cost } 366 + 367 + 369) - (\text{Depreciation } 366 + 367 + 369) - (\text{ADIT } 366 + 367 + 369)]}$

Account 594                                              213,838,589    PSC Annual Report, p. 322, line 157 col b

#### Conduit Investment

Book Cost, 366	5,186,449,576	PSC Annual Report, p. 207, line 68, col g
Book Cost, 367	7,957,638,356	PSC Annual Report, p. 207, line 69, col g
Book Cost, 369	933,444,919	PowerPlant CPR
	14,077,532,851	

#### Conduit Depreciation

Account 366	1,296,075,077	Schedule 1, page 3 of 5
Account 367	1,988,585,177	Schedule 1, page 3 of 5
Account 369	233,264,525	Schedule 1, page 3 of 5
	3,517,924,779	

ADIT 366	789,154,584	Schedule 1, page 3 of 5
ADIT 367	1,210,810,342	Schedule 1, page 3 of 5
ADIT 369	142,030,174	Schedule 1, page 3 of 5
	2,141,995,100	

**Maintenance Element                      2.54%**

**C) Depreciation Element** =  $\frac{(\text{Gross Conduit Investmt. Acct. 366})}{\text{Net Conduit Investment}} \times \text{Depreciation rate}$

Gross Conduit Investment, Acct. 366	5,186,449,576	PSC Annual Report, p. 207, line 68, col g
Net Conduit Investment	3,101,219,915	Schedule 1, page 2 of 5
Depreciation Rate	2.00%	

**Depreciation Element                      3.34%**

**D) Taxes Element** =  $\frac{(\text{Account } 408.1 + 409.1 + 410.1 + 411.4 - 411.1)}{(\text{Gross Plant Inv} - \text{Depreciation} - \text{ADIT})}$

Account 408.1                                              2,184,457,011    PSC Annual Report, p. 115, line 14, col e  
Account 409.1                                              122,540,754

Account 410.1                                              3,340,892,025    PSC Annual Report, p. 115, line 17, col e  
Account 411.4                                              (1,109,424)    PSC Annual Report, p. 115, line 19, col e

Account 411.1                                              3,324,549,492    PSC Annual Report, p. 115, line 18, col e  
Gross Plant Inv                                              34,150,184,069    PSC Annual Report, p. 200, line 8, col c  
Depreciation, Electric Plant                                              8,534,008,054    PSC Annual Report, p. 200, line 22, col c  
ADIT                                              5,196,189,398

**Taxes Element                                      11.37%**

**E) Rate of Return Element**                                              **11.25%** FCC default

**Carrying Charge Rate**                      **(A+B+C+D+E)**                      **31.44%**

Consolidated Edison Company of New York, Inc.  
Rider XSchedule 1  
Page 5 of 5**Innerduct Footage, Account 366**

Accounts 6096 &amp; 6994

Duct size diameter

Footage

Number of innerduct

Total Footage of Innerduct

< 3"	3" - 3.5"	4" - 4.5"	5"+	Total System Footage
486,401	25,332,044	90,428,281	18,779,054	135,025,780
1	2	3	4	
486,401	50,664,088	271,284,843	75,116,216	397,551,548

Total Footage of Innerduct for  
Backbone / Spur System2.94 Innerduct per duct,  
current weighted average

<u>Account 6096</u>	Footage less than 3"	3 - 3.5	4" - 4.5"	5"+	
	473,761	11,216,609	65,143,811	11,165,454	
Sub-total	473,761	11,216,609	65,143,811	11,165,454	87,999,635
<u>Account 6994</u>	Footage less than 3"	3 - 3.5	4" - 4.5"	5"+	
	12,640	14,115,435	25,284,470	7,613,600	
Sub-total	12,640	14,115,435	25,284,470	7,613,600	47,026,145
Total					135,025,780

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 2  
Page 1 of 4

## Service Lateral Rental Rate Calculation

Rate = (1 / number of innerduct per duct) X (Net Service Investment / Total Service Footage) X Carrying Charge

**Note:** The weighted average number of innerduct per service duct is **1.92** from Schedule 2, page 3 of 4

Where;

			<u>Information Source</u>
Net Service Investment	(A)	558,150,220	Schedule 2, page 2 of 4
Carrying Charge	(B)	34.19%	Schedule 2, page 4 of 4
Total footage of duct	(C)	18,978,059	Acct. 369, PowerPlant CPR , Acct 369200
Rate per Foot of Service Lateral	= ( A / C ) X B X 1 / 1.92		Schedule 2, page 3 of 4
Rate per Foot of Service Lateral	\$	<b>5.25</b>	Annual Rate

Consolidated Edison Company of New York, Inc.  
Rider X

Net Service Investment Calculation

Where;

Net Service Conduit Investment = (Gross Service Investment, Acct. 369) - (Accum. Service Depreciation) - (ADIT, services)

Book Cost, Acct. 369	\$ 933,444,919	PowerPlant CPR
Less Depreciation 369	\$ 233,264,525	Schedule 1, page 3 of 5
Less ADIT (services)	<u>\$ 142,030,174</u>	Schedule 1, page 3 of 5
Net Service Conduit Investment	\$558,150,220	



**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 2  
Page 3 of 4

## Service Laterals- Average Weighted Innerduct per Duct

**Acct. 369**

**Based on Data From PowerPlant CPR and PowerPlant Equipment ledger Year-end 2022**

<u>Diameter</u>	<u>No. Svcs</u>	<u>Feet</u>	<u>Innerduct</u>	<u>Innerduct feet</u>
0	0	0	0	-
1.5	1,951	59,861	0	-
2	238,394	8,345,624	1	8,345,624
2.5	19,804	701,033	1	701,033
3	87,549	2,348,502	2	4,697,004
3.5	3,950	122,472	2	244,944
4	220,337	7,243,024	3	21,729,072
4.5	13	445	3	1,335
5	4,027	155,770	4	623,080
6	<u>4</u>	<u>1,328</u>	5	<u>6,640</u>
	<b>576,029</b>	<b>18,978,059</b>		<b>36,348,732</b>

Total Innerduct Footage	36,348,732
Total Service Footage	18,978,059
Average Innerduct per Service Duct	<b>1.92</b>

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 2  
Page 4 of 4

**Service Lateral Carrying Charge**  
**Account 369**

**A) Administrative Element**

Same as Backbone/Spur **2.93%** Schedule 1, page 4 of 5

**B) Maintenance Element**

Same as Backbone/Spur **2.54%** Schedule 1, page 4 of 5

**C) Depreciation Element =  $\frac{(\text{Gross Service Investment, 369}) \times \text{Depreciation Rate}}{\text{Net Service Investment, 369}}$**

		<u>Information Source</u>
Gross Service Conduit Investment, 369	933,444,919	PowerPlant CPR
Net Service Conduit Investment	558,150,220	Schedule 2, page 2 of 4
Depreciation rate, services	3.64%	
	<b>6.09%</b>	

**D) Taxes Element**

Same as Backbone/Spur **11.37%** Schedule 1, page 4 of 5

**E) Rate of Return Element**

**11.25%** Schedule 1, page 4 of 5 , FCC Default

**Carrying Charge Rate** (A+B+C+D+E) **34.19%**

**Consolidated Edison Company of New York, Inc.****Rider X****Calculation of Rates Effective September 1, 2023****Calculation of Rental Rate for Use of Innerduct****Electric Underground Facilities**

a	Rental Rate (\$/ft of innerduct)	\$2.4559
b	Innerduct Footage in existing duct	<u>528,161</u>
c	Revenue Requirement, Electric Underground Facilities (a * b)	\$1,297,111

**Telecommunications Underground Facilities**

d	Innerduct Footage	105,382
<u>Calculation of Levelized Charge</u>		
e	Telecommunications Underground Facilities Costs	\$397,989
f	Levelized Carrying Charge	18.01%
g	Levelized Charge (e * f)	\$71,671
<u>Calculation of 10% Charge on Original Book Cost</u>		
h	Original Book Cost	\$14,312,606
i	10% Charge (h * 10%)	1,431,261
j	Revenue Requirement, Telecom Underground Facilities (g + i)	\$1,502,932

**Calculation of Rental Rate for Use of Innerduct**

k	Total Revenue Requirement (c + j)	\$2,800,043
l	Footage of Innerduct in use or reserved in Electric (b)	528,161
m	Footage of Telecom Underground Facilities (d)	<u>105,382</u>
n	Total Footage (l + m)	<u>633,543</u>
o	Rental Rate for Use of Innerduct (k / n), \$ Per Innerduct Foot Per Year	<b>\$4.4197</b>

**Calculation of Rental Rate for Telecom Manholes****Calculation of Levelized Charge**

p	Telecom Underground Facilities Costs, with Adders	\$0
q	Levelized Carrying Charge	18.01%
r	Levelized Charge (p * q)	\$0

**Calculation of 10% Charge on Original Book Cost**

s	Original Book Cost	\$9,296,122
t	10% Charge (s * 10%)	929,612
u	Rev Requirement, Telecom Manholes (r + t)	\$929,612
v	Number of Manhole Uses	424
w	Rental Rate, \$ / manhole use / year (u / v)	<b>\$2,192</b>

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 4  
Page 1 of 2

## **Tunnel Rate Calculations**

Formula =  $\frac{(\text{Revenue Requirement of Unusable Space}) + ((25\% \text{ of Book Cost} - \text{Revenue Requirement of Unusable Space}) \times \text{Area of Innerduct w/ hanger})}{\text{Number of Users}}$

		<b>Tunnel Crossings</b>		
		<b>A</b>	<b>B</b>	<b>C</b>
Book Cost, Year-End 2022	a	\$ 9,590,731	\$ 17,109,659	\$ 9,505,110
25% Carrying Charge = a X 0.25	b	\$ 2,397,683	\$ 4,277,415	\$ 2,376,277
Shaft Diameter, feet	c	10	26	18
Total Area sq footage = $3.14 \times (c / 2)^2$	d	78.5	530.7	254.3
Usable Area = d - f	e	31.6	227.4	75.1
Common Area, See p. 2 of 2	f	46.9	303.3	179.2
Percent Unusable Area = f / d	g	59.7%	57.2%	70.5%
Revenue Requirement of Usable Area = b - j	h	\$ 965,946	\$ 1,832,538	\$ 701,763
Cost per Sq. Ft., Usable Area = h / e	i	\$ 30,544	\$ 8,060	\$ 9,344
Revenue Requirement of Unusable Area = b X g	j	\$ 1,431,737	\$ 2,444,877	\$ 1,674,514
Area of innerduct with hanger, 2" x 2" space	k	0.03	0.03	0.03
Cost per innerduct = i X k	l	\$ 916	\$ 242	\$ 280
Total Cost per innerduct or cable = (j / m) + l				
Number of Users*				
5	m	<b>\$287,263</b>		
5	m		<b>\$489,217</b>	
6	m			<b>\$279,366</b>

\* Con Edison electric is considered a separate user for each transmission voltage in a tunnel.  
 Con Edison Gas, Steam and communication are each considered separate users.  
 Each Telecom innerduct/cable is considered a user.

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 4  
Page 2 of 2

## **Tunnel Rate Calculations**

### **UNUSABLE SPACE CALCULATION**

#### **Tunnel Crossing A**

		Total Area
Diameter	10.17 ft	
Total Area	78.5 sq-ft	78.5
<u>Unusable/common space items in shaft</u>		
Elevator	(5 x 2.5)/2	6.3
Landing	25% of shaft inclusive of 1/2 elev & Maint riser	19.6
I beams	.67 x 27ft	18
Ladder	1.5 x 2	3
Maintenance riser	0	0
	unusable/common space	46.9

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#### **Tunnel Crossing B**

		Total Area
Dia	26 ft	
Total Area	530.7 sq-ft	530.7 sq-ft
<u>Unusable/common space items in shaft</u>		
Elevator	8.125 x 3.25	0.0 sq-ft
Landing	4.875 x 19.5 inclusive of elevator	95.1 sq-ft
I beams	(.83 x 68.25) + (.5 x 51.2)	82.485 sq-ft
Ladder	1.5 x 2	3 sq-ft
Maintenance riser		122.8 sq-ft
	unusable/common space	303.3

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#### **Tunnel Crossing C**

		Total Area
Dia	18 ft	
Total Area	254.34 sq-ft	254.34 sq-ft
<u>Unusable/common space items in shaft</u>		
Elevator	0	0 sq-ft
Landing	6.25 x 20 inclusive of elevator & Maint riser	125 sq-ft
I beams	(.67 x 69.3) + (.5 x 10)	51.2 sq-ft
Ladder	1.5 x 2	3 sq-ft
Maintenance riser	0	0 sq-ft
	unusable/common space	179.2

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**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 5  
Page 1 of 1

## River Crossings

### **River Crossing, D**

Original book cost	649,959	A
Number of duct	7	B
Average cost per duct	\$92,851	$C = (A / B)$
Number of Innerduct	5	D
Carrying Charge	25.00%	E
Annual Rate	<b>\$4,643</b>	$F = (C/D)*E$

### **River Crossing, E**

Original book cost	80,147	A
Number of duct	2	B
Average cost per duct	\$40,073	$C = (A / B)$
Number of Innerduct	7	D
Carrying Charge	25.00%	E
Annual Rate	<b>\$1,431</b>	$F = (C/D)*E$

Consolidated Edison Company of New York, Inc.  
Rider X

Manhole POE to Enter/Exit Company Facilities

Formula 
$$\frac{= (\text{Carrying Chg. of an Elec. MH}) \times (\text{Avg. Original Bk. Cost of an Elec. MH})}{(\text{Avg. No. of POE's in an Elec. MH})}$$

		<u>Formula</u>
Average Original Book Cost of Electric Manhole	a	\$6,025.00
Carrying Charge of an Electric Manhole	b	25%
Average Number of POE's in an Electric Manhole	c	16
Rate	(a X b)/c	<b>\$94.1406</b>

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 7  
Page 1 of 1

**Transmission Tower Attachments**

Formula =  $\frac{(\text{Book Cost, facility}) \times (\text{Number of Pot. Telecom Attachments per Tower}) \times (\text{Carrying Charge})}{\text{Total Potential Attachments per Tower}}$

**"K" Line**

Book Cost, entire facility- towers and fixtures only	a	\$32,204,501
Potential Number of Telecom Attachments (used) per Tower	b	1
Carrying Charge	c	25.00%
Total Potential Attachments* per Tower	d	16
Rate, entire facility	e (a x b xc)/d	\$503,195.33
Number of Towers	f	384
Rate/Tower	g g = (e / f )	\$1,310.40
Usable Space Factor	h	80.00%
<b>Attachment/Tower</b>	i i = g * h	<b>\$1,048</b>

**"E" Line**

Book Cost, entire facility- towers and fixtures only	a	\$15,549,237
Potential Number of Telecom Attachments (used) per Tower	b	1
Carrying Charge	c	25.00%
Total Potential Attachments* per Tower	d	16
Rate, entire facility	e (a x b xc)/d	\$242,956.83
Number of Towers	f	144
Rate/Tower	g g = (e / f )	\$1,687.20
Usable Space Factor	h	80.00%
<b>Attachment/Tower</b>	i i = g * h	<b>\$1,350</b>

* 16 Total Potential Attachments	2 pair of 3 phase conductors	6
	2 Circuits X 2	12
	2 Static lines	2
		14
	Potential Telecom Attachments	2
	Total Potential Attachments	16



**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 8  
Page 1 of 1

## Rights-of-Way

Findings based on Real Estate Appraisal study of February 27, 1997 with 3% annual escalation

<b>Aerial:</b>	\$0.9961 per foot	1998	0.4900	1.03
		1999	0.5047	
		2000	0.5198	
		2001	0.5354	
		2002	0.5515	
		2003	0.5680	
		2004	0.5851	
		2005	0.6026	
		2006	0.6207	
		2007	0.6393	
		2008	0.6585	
		2009	0.6783	
		2010	0.6986	
		2011	0.7196	
		2012	0.7412	
		2013	0.7634	
		2014	0.7863	
		2015	0.8099	
		2016	0.8342	
		2017	0.8592	
		2018	0.8850	
		2019	0.9115	
		2020	0.9389	
		2021	0.9671	
		2022	0.9961	
<b>Underground:</b>	\$2.0328 per foot	1998	1.0000	1.03
		1999	1.0300	
		2000	1.0609	
		2001	1.0927	
		2002	1.1255	
		2003	1.1593	
		2004	1.1941	
		2005	1.2299	
		2006	1.2668	
		2007	1.3048	
		2008	1.3439	
		2009	1.3842	
		2010	1.4258	
		2011	1.4685	
		2012	1.5126	
		2013	1.5580	
		2014	1.6047	
		2015	1.6528	
		2016	1.7024	
		2017	1.7535	
		2018	1.8061	
		2019	1.8603	
		2020	1.9161	
		2021	1.9736	
		2022	2.0328	

**Consolidated Edison Company of New York, Inc.**

Schedule 9

**Rider X**

Page 1 of 1

**Calculation of Average Cost of a Telecom Manhole**

Manhole Construction Costs Through May 2003 (incl adders)	\$9,100,368
Manhole Costs June through October 2003	51,660
Telergy Manholes Occupied by CEC through Oct. 2003	531,505
Manhole Costs Nov. 2003 through Jan. 2004	51,656
Subtotal	\$9,735,189
Customer Contributions to Manhole Depreciation	(1,330,196)
Manhole Costs Net of Depreciation Recoveries	\$8,404,993
CIAC Tax	1,284,332
Manhole Cost Including CIAC	\$9,689,325
Add Back Depreciation Recoveries	1,330,196
Subtotal	\$11,019,521
Manhole Costs Feb. 2004 - June 2004	\$74,800
Manhole Costs July 2004 - June 2005	\$41,379
Manhole Costs July 2005 - June 2006	\$104,669
Manhole Costs July 2006 - June 2007	\$30,716
Manhole Costs July 2007 - June 2008	\$0
Manhole Costs July 2008 - June 2009	\$0
Manhole Costs July 2009 - June 2010	\$0
Manhole Costs July 2010 - June 2011	\$60,987
Manhole Costs July 2011 - June 2012	\$95,344
Manhole Costs July 2012 - June 2013	\$0
Manhole Costs July 2013 - June 2014	\$152,433
Manhole Costs July 2014 - June 2015	\$0
Manhole Costs July 2015 - June 2016	0
Manhole Costs July 2016 - June 2017	0
Manhole Costs July 2017 - June 2018	0
Manhole Costs July 2018 - June 2019	0
Manhole Costs July 2019 - June 2020	0
Manhole Costs July 2020 - June 2021	0
Manhole Costs July 2021 - June 2022	0
Manhole Costs July 2022 - June 2023	0
Total Manhole Costs	\$11,579,848
Number of Telecom Manholes	285
Average Cost Per Telecom Manhole	<b>\$40,631</b>

**Consolidated Edison Company of New York, Inc.**  
**Rider X**

Schedule 10  
Page 1 of 1

**Unused Telecom Manhole Average Cost**

	Number of Manholes	Total Costs	Average Cost Per Manhole
Telergy Manholes	83	\$2,925,641	<b>\$35,249</b>