DRAFT REPORT VOLUME THREE - APPENDICES Part 2 of 4 Appendices 7-1 through 7-3

SOUTHERN CALIFORNIA ACCELERATED RAIL ELECTRIFICATION PROGRAM



PHOTO BY SPACESHOTS INC.

Prepared for

Southern California Regional Rail Authority

February 10, 1992

DRAFT

REPORT VOLUME III – APPENDICES

Part 2 of 4
Appendices 7-1 through 7-3

Prepared By:

Los Angeles County Transportation Commission
South Coast Air Quality Management District
Southern California Regional Rail Authority

DeLeuw Cather & Company
Booz·Allen & Hamilton Inc.
Frederic R. Harris Inc.
ICI General Chemicals
LTK Engineering Services
Myra L. Frank & Associates, Inc.
Seelye, Stevenson, Valve & Knecht
Sharon Greene & Associates
Southern California Edison Inc.
Southern California Gas Company
Southwest Research Institute

DISCLAIMER

All participants in the Electrification Task Force identified on the previous page have contributed in some measure to the preparation of this Southern California Accelerated Rail Electrification Program report. However, not every participant is in agreement with the analysis and findings contained herein. Accordingly, identification of a participant does not indicate acceptance of, or agreement with, the entirety of the information provided in the report.

Funding for this Study

Provided By:

Amtrak

Atchison, Topeka and Santa Fe Railway Company

California Transportation Commission

Los Angeles Department of Water and Power

Riverside County Transportation Commission

San Diego Association of Governments/ San Diego Gas and Electric/ San Diego Air Pollution Control District

South Coast Air Coast Quality Management District

Southern California Edison

Southern California Gas Company

Southern California Regional Rail Authority

Southern Pacific Transportation Company

Union Pacific Railroad

LIST OF APPENDICES (Part 2 of 4)

- 7-1 Estimate of Capital Costs Commuter Freight Combined
- 7-2 Total Costs Related to Electrification 25Kv, Minimum Vertical Clearance
- 7-3 Total Costs Related to Electrification 25Kv, Desirable

DRAFT VERSION 1 2/10/92

RPT/SCRE -01

APPENDIX 7-1

RPT/SCRE - 01

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INFLATION ESCALA	TION						INFLATED C	COST			
		Total	Total	1992	1993	1994	1995	1996	1997	1998	1999
	Seq/	1992	Inflated	4.00%	4.00%	4.00%	4.00%	5.00%	5.00%	5.00%	5.00%
Route	Unit	Cost	Cost	104.00%	108.16%	112.49%	116.99%	122.84%	128.98%	135.43%	142.20%
SEGMENT SPECIFIC COST											
1 SP-UP Corridor	4	100.0% 45273.6	63108.3	1.0% 470.8	2.0% 979.4	3.0% 1527.8	4.0%	4.0%	10.0% 5839.3	21.0% 12875.6	21.0% 13519.3
2 Baldwin Park Commuter	8	100.0%		2.0%	4.0%	6.0%	23.0%	42.0%	23.0%	12070.0	10010.0
3 Moorpark Commuter	9	193293.1 100.0%	234498.9	4020.5 2.0%	8362.6 4.0%	13045.7	52008.9 23.0%	99721.4	57339.8 23.0%		
		203221.9	246544.3	4227.0	8792.2	13715.8	54680.4	104843.7	60285.2		
4 Santa Clarita Commuter	10	100.0%		3.0%	5.0%	6.0%	50.0%	34.0%	1.5%	0.5%	
		99741.5	117840.4	3111.9	5394.0	6731.7	58341.7	41656.0	1929.7	675.4	
5 Lossan Corridor	11	100.0%		1.0%	3.0%	5.0%	5.0%	28.0%	28.0%	28.0%	2.0%
		427598.4	543173.7	4447.0	13874.7	24049.5	25011.5	147067.5	154420.9	162141.9	12160.6
6 Riverside Via Ontario	2	100.0%		2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
	_	31839.4	38626.9	662.3	1377.5	2148.9	8567.0	16426.2	9445.1		
7 Riverside - LAUPT via Fullerto	on 7	100.0%	47000 4	302.9	4.0% 630.1	6.0% 982.9	23.0%	42.0% 7513.5	23.0% 4320.3		
a Harrist Physician	12	14563.7 100.0%	17868.4	2.0%	5.0%	7.0%	36.0%	48.0%	2.0%		
8 Hernet - Riverside	12	123697.8	147221.9	2572.9	. 6689.6	9740.0	52095.2	72933.3	3190.8		
9 San bernardino – Irvine	6	100.0%	147221.0	2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
9 San Demardino - Irvine		57177.3	69366.3	1189.3	2473.7	3859.0	15384.6	29498.2	16961.5		
10 Redlands Commuter	13	100.0%	00000.0	3.0%	6.0%	27.0%	62.0%	2.0%	10001.0		
10 Rediands Committee		53909.7	61979.4	1682.0	3498.5	16373.1	39101.4	1324.4			
11 Southern Pacific Routes Ports	to Yuma 3	100.0%	01070.4	1.5%	2.0%	3.5%	5.0%	12.0%	21.0%	21.0%	21.0%
TO COUNTRY WORK TO THE	to runa	808093.5	1196232.0	14024.3	19447.0	35393.6	52584.8	132513.6	243493.7	255668.4	268451.8
12 Santa Fe Ports to Barstow	5	100.0%		1.5%	2.0%	4.5%	5.0%	15.0%	28.0%	28.0%	15.8%
		270249.5	350941.0	4215.9	5846.0	13679.7	15807.7	49794.2	97596.7	102476.5	60717.3
13 Union Pacific Ports to Yermo	1	100.0%		1.5%	2.0%	4.5%	5.0%	15.0%	28.0%	28.0%	15.8%
-		790617.5	1026681.2	12333.6	17102.6	40020.2	46245.5	145673.4	285519.9	299795.9	177629.1
TOTAL SEGMENT SPECIFIC COST		3,210,177.0	4,113,882.6	53,260.5	94,468.0	181,268.0	425,865.7	851,190.0	940,342.7	833,633.7	532,478.2
SHARE-ALL COST					!						
System - Wide Traction Electrification	Cost	100.0%		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
		50688.0	64811.7	5271.6	5482.4	5701.7	5929.8	6226.3	6537.6	6864.5	7207.7
Shops & Ancillary Facilities		100.0%		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
	L.S.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Locomotive Change Facilities		100.0%		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
	L.S.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Center		100.0%		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
	L.S.	0.0	10000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Locomotives						İ					
Passenger		0.0%	i	1							
	EA	0.0	0.0					ļ	!	ì	
Freight	-	0.0%						į		i	
1	EA	0.0	0.0				İ				
Total Electric Locomotives	L.S.	0.0	0.0	5074	F400 .	570/ -	F005 -	#00C C	2507.5	80845	7007 7
TOTAL SHARE -ALL COST		50688.0	74811.7	5271.6	5482.4	5701.7	5929.8	6226.3	6537.6	6864.5	7207.7
TOTAL COST		3260865.0	4188694.3	58,532	99,950	186,970	431,796	857,416	946,880	840,498	539,686

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INFLATION ESCALATION									NFLATED C	OST				
Andrew that and a property of the second		Total	Total	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	Seq/	1992	Inflated	5.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00% 224.50%	6.00% 237.97%	6.00% 252.25%	6.00% 267.39%
Route	Unit	Cost	Cost	149.31%	158.27%	167.76%	177.83%	188.50%	199.01%	211.79%	224.50%	231.91%	232.23%	201.39%
SEGMENT SPECIFIC COST														
1 SP-UP Corridor	4	100.0% 45273.6	63108.3	21.0% 14195.3	12.0% 8598.3	1.0% 759.5								
2 Baldwin Park Commuter	8	100.0% 193293.1	234498.9						Y					
3 Moorpark Commuter	9	100.0%	246544.3											
4 Santa Clarita Commuter	10	100.0% 99741.5	117840.4											
5 Lossan Corridor	11	100.0% 427598.4	543173.7											
6 Riverside Via Ontario	2	100.0% 31839.4	38626.9											
7 Riverside - LAUPT via Fullerton	7	100.0% 14563.7	17668.4											
8 Hernet - Riverside	12	100.0% 123697.8	147221.9										×	
9 San bernardino - Irvine	6	100.0% 57177.3	69366.3											
10 Redlands Commuter	13	100.0% 53909.7	61979.4											
11 Southern Pacific Routes Ports to Yurna	3	100.0% 898993.5	1196232.0	12.8% 171809.2	0.2% 2845.6									
12 Santa Fe Ports to Barstow	5	100.0% 270249.5	350941.0	0.2% 807.0										
13 Union Pacific Ports to Yermo	1	100.0% 790617.5	1026681.2	0.2% 2360.9										
TOTAL SEGMENT SPECIFIC COST		3,210,177.0	4,113,882.6	189,172.4	11,443.9	759.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARE-ALL COST							į							
System-Wide Traction Electrification Cost		100.0% 50688.0	64811.7	10.0% 7568.1	10.0% 8022.2		,						!	
Shops & Ancillary Facilities		100.0%	i	10.0%	10.0%	į								
	L.S.	0.0	0.0	0.0	0.0	į				į	i	1		20
Locomotive Change Facilities	L.S.	100.0%	0.0	10.0%	10.0%			i				1	i	
Control Center	L.3.	100.0%	0.0	10.0%	10.0%					İ			1	9
Control Control	L.S.	0.0	10000.0	0.0	0.0	i				!			!	
Electric Locomotives								i				1		
Passenger		0.0%			1			i	1		1	1	!	
5-1-1-1	EA	0.0	0.0	į	i							i	į	
Freight	EA	0.0%	0.0			1	1		i	1			İ	
Total Electric Locomotives	L.S.	0.0	0.0				İ		į	į	-		1	
TOTAL SHARE-ALL COST	2.0.	50688.0	74811.7	7568.1	8022.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL COST		3260865.0	4188694.3	196,740	19,466	760	0	0	0	0	0	0	0	0
TOTAL COST		3200003.0	4100094.3	190,740	19,400	700		0	0.					

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INFLATION ESCALATION							COST IN 19	92 (K\$)			
		Total	Total	1992	1993	1994	1995	1996	1997	1998	1999
• ,	Seq/	1992	Inflated	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Route	Unit	Cost	Cost	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SEGMENT SPECIFIC COST						7					
4 OD 1100-14-		100.00	1	1.0%	2.0%	3.0%	4.0%	4.0%	10.0%	21.0%	21.0%
1 SP-UP Corridor	4	100.0% 45273.6	45273.6	452.7	905.5	1358.2	1810.9	1810.9	4527.4	9507.5	9507.5
2 Baldwin Park Commuter	8	100.0%		2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
3 Moorpark Commuter	9	193293.1	193293.1	3865.9 2.0%	7731.7 4.0%	11597.6	44457.4 23.0%	81183.1 42.0%	44457.4 23.0%		
5 Moorpark Communication	, ,	203221.9	203221.9	4064.4	8126.9	12193.3	46741.0	85353.2	46741.0		
4 Santa Clarita Commuter	10	100.0%		3.0%	5.0%	6.0%	50.0%	34.0%	1.5%	0.5%	
	-	99741.5	99741.5	2992.2	4987.1	5984.5	49870.7	33912.1	1496.1	498.7	0.00
5 Lossan Corridor	11	100.0% 427598.4	427598.4	1.0% 4276.0	3.0% 12828.0	5.0% 21379.9	5.0% 21379.9	28.0% 119727.5	28.0% 119727.5	28.0% 119727.5	2.0% 8552.0
6 Riverside Via Ontario	2	100.0%	42/390.4	2.0%	4.0%	6.0%	23.0%	42.0%	23.0%	110121.0	0002.0
Tillouis of States	-	31839.4	31839.4	636.8	1273.6	1910.4	7323.1	13372.6	7323.1	1	
7 Riverside - LAUPT via Fullerton	7	100.0%		2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
		14563.7	14563.7	291.3	582.5	873.8	3349.7	6116.8	3349.7		
8 Hernet - Riverside	12	100.0%		2.0%	5.0%	7.0%	36.0%	48.0% 59375.0	2.0%		
0 0 1	6	123697.8	123697.8	2474.0	4.0%	8658.8	44531.2 23.0%	42.0%	23.0%		
9 San bernardino – Irvine		100.0% 57177.3	57177.3	1143.5	2287.1	3430.6	13150.8	24014.5	13150.8		
10 Redlands Commuter	13	100.0%		3.0%	6.0%	27.0%	62.0%	2.0%		1	
		53909.7	53909.7	1617.3	3234.6	14555.6	33424.0	1078.2	i	1	
11 Southern Pacific Routes Ports to Yum	a 3	100.0%		1.5%	2.0%	3.5%	5.0%	12.0%	21.0%	21.0%	21.0%
	_	898993.5	898993.5	13484.9	17979.9	31464.8	44949.7 5.0%	107879.2	188788.6 26.0%	188788.6 28.0%	188788.6
12 Santa Fe Ports to Barstow	5	100.0% 270249.5	270249.5	1.5%	5405.0	12161.2	13512.5	40537.4	75669.9	75669.9	42009.4
13 Union Pacific Ports to Yermo	1	100.0%	270245.5	1.5%	2.0%	4.5%	5.0%	15.0%	26.0%	28.0%	15.8%
		790617.5	790617.5	11859.3	15812.3	35577.8	39530.9	118592.6	221372.9	221372.9	124917.6
TOTAL SEGMENT SPECIFIC COST		3,210,177.0	3,210,177.0	51,212.0	87,341.0	161,145.6	364,031.8	692,953.1	729,078.3	615,565.1	374,465.0
SHARE-ALL COST							İ				
STATE -ALL COST							İ				
System-Wide Traction Electrification Cost		100.0%		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
		50688.0	50688.0	5068.8	5068.8	5068.8	5068.8	10.0%	5068.8	10.0%	5068.8 10.0%
Shops & Ancillary Facilities	L.S.	100.0%	0.0	10.0%	10.0%	0.0%	10.0%	0.0	10.0%	0.0	0.0
Locomotive Change Facilities	L.S.	100.0%	0.0	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Localitative Charles	L.S.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Center		100.0%		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
	L.S.	0.0	10000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Locomotives					1			!			
Passenger	EA	0.0%	0.0			1	1				
Freight	EA	0.0%	0.0			i	:		1		
riolyn	EA	0.0	1.0	10.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Total Electric Locomotives	L.S.	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL SHARE-ALL COST		50688.0	60689.0	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8	5068.8
		200000	0070005	58.004	92,410	166,215	369,101	698,022	734,147	620,634	379,534
TOTAL COST		3260865.0	3270866.0	56,281	92,410	100,215	309,101	090,022	134,147	020,034	318,334

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INFLATION ESCALATION									COST IN 19	92 (K\$)				
	Seq/	Total 1992	Total Inflated	2000 0.00%	2001 0.00%	2002 0.00%	2003 0.00%	2004 0.00%	2005 0.00%	2006 0.00%	2007 0.00%	2008 0.00%	2009 0.00%	2010 0.00%
Route	Unit	Cost	Cost	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SEGMENT SPECIFIC COST		*		-										
1 SP-UP Corridor	4	100.0% 45273.6	45273.6	21.0% 9507.5	12.0% 5432.8	1.0% 452.7								
2 Baldwin Park Commuter	8	100.0% 193293.1	193293.1											
3 Moorpark Commuter	9	100.0% 203221.9	203221.9											
4 Santa Clarita Commuter	10	100.0% 99741.5	99741.5											
5 Lossan Corridor 6 Riverside Via Ontario	11	100.0% 427598.4 100.0%	427598.4											
7 Riverside - LAUPT via Fullerton	7	31839.4 100.0%	31839.4											
8 Hemet - Riverside	12	14563.7 100.0%	14563.7			2								
9 San bernardino – Irvine	6	123697.8 100.0% 57177.3	123697.8 57177.3		-									
10 Redlands Commuter	13	100.0% 53909.7	53909.7			20								
11 Southern Pacific Routes Ports to Yuma	3	100.0%	909000 F	12.8% 115071.2	0.2% 1798.0									
12 Santa Fe Ports to Barstow	5	898993.5 100.0% 270249.5	898993.5 270249.5	0.2% 540.5	1756.0									
13 Union Pacific Ports to Yermo	1.	100.0% 790617.5	790617.5	0.2% 1581.2										
TOTAL SEGMENT SPECIFIC COST		3,210,177.0	3,210,177.0	126,700.4	7,230.8	452.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARE-ALL COST														
System - Wide Traction Electrification Cost		100.0% 50688.0	50688.0	10.0% 5068.8 10.0%	10.0% 5068.8 10.0%		`			!				
Shops & Ancillary Facilities Locomotive Change Facilities	L.S.	100.0%	0.0	0.0	0.0%				!					
Control Center	L.S.	0.0 100.0%	0.0	10.0%	10.0%									
Electric Locomotives	L.S.	0.0	10000.0	0.0	0.0						į			
Passenger		0.0%				1			i	i				
	EA	0.0	0.0	İ	1				i		į			
Freight	EA	0.0%	1.0	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Total Electric Locomotives	L.S.	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL SHARE-ALL COST		50688.0	60689.0	5068.8	5068.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL COST		3260865.0	3270866.0	131,769	12,300	453	0	0	0 i	0	0	0	0	

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ADD-ON FACTORS		A1	A2	A3	A4	A5	^	В	С	D	E	F	G
			T	05		Locomotive	Total Segment		Contractors Mobilization/	Testing & Operations	Owners		
		Segment Specific	Traction Electrification	Shops & Ancillary	Control	Change	Specific		Demobilization	Mobilization	Insurance	Mitigation	Right-of-Way
	Sea	Construction	Cost	Facilities	Center	Facilities	Cost	Locomotive	(5% of A)	(2% of A)	(8% of A)	(2% of A)	(5% of A)
Route	ped	Construction	COST	racimino	Center	TECHNOS	0001	Locomone	102011	1270 01117	1070 0.117	127211	(0.70.77)
SEGMENT SPECIFIC COST													
1 SP-UP Comidor	4	8,874.3	12,537.5	564.1	141.0	479.5	22,596.5		1,129.8	451.9	1,807.7	451.9	
2 Baldwin Park Commuter	8	37,888.3	53,528.3	2,408.5	602.1	2,047.2	96,474.4		4,823.7	1,929.5	7,718.0	1,929.5	
3 Moorpark Commuter	9	39,834.5	56,277.8	2,532.2	633.1	2,152.4	101,430.0		5,071.5	2,028.6	8,114.4	2,028.6	
4 Santa Clarita Commuter	10	19,550.8	27,621.2	1,242.8	310.7	1,056.4	49,781.9		2,489.1	995.6	3,982.6	995.6	
5 Lossan Corridor	11	83,815.6	118,414.0	5,328.0	1,332.0	4,528.8	213,418.5		10,670.9	4,268.4	17,073.5	4,268.4	
6 Riverside Via Ontario	2	6,241.0	8,817.2	396.7	99.2	337.2	15,891.4		794.6	317.8	1,271.3	317.8	
7 Riverside - LAUPT via Fullerton	7	2,854.7	4,033.1	181.5	45.4	154.2	7,268.9		363.4	145.4	581.5	145.4	
8 Hemet - Riverside	12	24,246.6	34,255.4	1,541.3	385.3	1,310.1	61,738.8		3,086.9	1,234.8	4,939.1	1,234.8	
9 San bernardino - Irvine	6	11,207.6	15,834.0	712.5	178.1	605.6	28,537.8		1,426.9	570.8	2,283.0	570.8	
10 Redlands Commuter	13	10,567.1	14,929.1	671.7	167.9	571.0	26,906.9		1,345.3	538.1	2,152.5	538.1	
11 Southern Pacific Routes Ports to Yuma	3	176,216.0	248,956.5	11,201.8	2,800.4	9,521.5	448,696.3		22,434.8	8,973.9	35,895.7	8,973.9	
12 Santa Fe Ports to Barstow	5	52,972.9	74,839.7	3,367.4	841.9	2,862.3	134,884.1		6,744.2	2,697.7	10,790.7	2,697.7	
13 Union Pacific Ports to Yermo	1	154,972.7	218,944.1	9,851.4	2,462.8	8,373.7	394,604.8		19,730.2	7,892.1	31,568.4	7,892.1	
TOTAL SEGMENT SPECIFIC COST	ERR	629242.1	888888.0	40000.0	10000.0	34000.0	1602230.1	0.0	80111.5	32044.6	128178.4	32044.6	0.0
SHARE-ALL COST													
System - Wide Traction Electrification Cost	N/A	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	42,240.0
Shops and Ancillary Facilities	N/A	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	
Control Center	N/A	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	
Locomotive Change Facilities	N/A	0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	
TOTAL SHARE-ALL COST		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42240.0
TOTAL COST		629242.1	888988.0	40000.0	10000.0	34000.0	1602230.1	0.0	80111.5	32044.6	126178.4	32044.6	42240.0

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	ADD-ON FACTORS		A1	н	1	J	K	L	м	N
				F	F1	Construction	Project		Designet	Total
			Segment	Force	Employee	Change Orders	Services	Subtotal	Project Reserves	Constant
		_	Specific	Account	Training	(12% of A&F)	(25% of A&F)			1
Rou	te	Seq	Construction	(8% of A)	(3% of A)	(2% of B)	(1%-B;10%-J)	(A - K)	(20% of L)	(L + M)
SEG	MENT SPECIFIC COST									
1	SP-UP Corridor	4	8,874.3	1,807.7	677.9	2,765.8	6,038.7	37,728.0	7,545.6	45,273.6
2	Baldwin Park Commuter .	8	37,888.3	7,718.0	2,894.2	11,808.5	25,781.8	161,077.6	32,215.5	193,293.1
3	Moorpark Commuter	9	39,834.5	8,114.4	3,042.9	12,415.0	27,106.2	169,351.6	33,870.3	203,221.9
4	Santa Clarita Commuter	10	19,550.8	3,982.6	1,493.5	6,093.3	13,303.7	83,117.9	16,623.6	99,741.5
5	Lossan Corridor	11	83,815.6	17,073.5	6,402.6	26,122.4	57,033.9	356,332.0	71,266.4	427,598.4
6	Riversi de Via Ontario	2	6,241.0	1,271.3	476.7	1,945.1	4,246.8	26,532.9	5,306.6	31,839.4
7	Riverside - LAUPT via Fullerton	7	2,854.7	581.5	218.1	889.7	1,942.5	12,136.4	2,427.3	14,563.7
8	Hemet - Riverside	12	24,246.6	4,939.1	1,852.2	7,556.8	16,499.1	103,081.5	20,616.3	123,697.8
9	San bernardino - Irvine	6	11,207.6	2,283.0	856.1	3,493.0	7,626.4	47,647.8	9,529.6	57,177.3
10	Redlands Commuter	13	10,567.1	2,152.5	807.2	3,293.4	7,190.6	44,924.8	8,985.0	53,909.7
11	Southern Pacific Routes Ports to Yuma	3	176,216.0	35,895.7	13,460.9	54,920.4	119,909.6	749,161.2	149,832.2	898,993.5
12	Santa Fe Ports to Barstow	5	52,972.9	10,790.7	4,046.5	16,509.8	36,046.4	225,207.9	45,041.6	270,249.5
13	Union Pacific Ports to Yermo	1	154,972.7	31,568.4	11,838.1	48,299.6	105,454.2	658,847.9	131,769.6	790,617.5
тот	AL SEGMENT SPECIFIC COST	ERR	629242.1	128178.4	, 48066.9	196113.0	428180.0	2675147.5	535029.5	3210177.0
SHA	RE-ALL COST						7			
Syst	em-Wide Traction Electrification Cost	N/A	0.0	0.0	0.0	0.0	0.0	42,240.0	8,448.0	50,688.0
Sho	ps and Ancillary Facilities	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Con	trol Center	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Loca	omotive Change Facilities	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
тот	AL SHARE-ALL COST		0.0	0.0	0.0	0.0	0.0	42240.0	8448.0	50688.0
тот	AL COST		629242.1	128178.4	48066.9	196113.0	428180.0	2717387.5	543477.5	3260865.0

ADD-ON FACTORS		A1	A2	A3	A4	A5	A Total	В	C Contractors	D Testing &	E	F	G
Route	Seq	Segment Specific Construction	Traction Electrification Cost	Shops & Ancillary Facilities	Control	Locomotive Change Facilities	Segment Specific Cost	Locomotive	Mobilization/ Demobilization (5% of A)	Operations Mobilization (2% of A)	Owners Insurance (8% of A)	Mitigation (2% of A)	Right - of - Way (5% of A)
SEGMENT SPECIFIC COST									,		(5.15.5.1)	(=,==,,,	(0.00.00)
1 SP – UP Comidor		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	
2 Baldwin Park Commuter	8	37,888.3	41,526.1	0.0	559.2	0.0	79,973.6		3,998.7	1,599.5	6,397.9	1,599.5	
3 Moorpark Commuter	اه	39,834.5	43,659.1	0.0	587.9	0.0	84,081.6		4,204.1	1,681.6	6,726.5	1,681.6	
4 Santa Clarita Commuter	10	19,550.8	21,427.9	0.0	288.5	0.0	41,267.3		2,063.4	825.3	3,301.4	825.3	
5 Lossan Corridor	11	83,783.9	91,828.3	0.0	1,236.6	0.0	176,848.7		8,842.4	3,537.0	14,147.9	3,537.0	
6 Riverside Via Ontario	2	6,209.4	6,805.6	0.0	91.6	0.0	13,106.6		655.3	262.1	1,048.5	262.1	
7 Riverside - LAUPT via Fullerton	7	2,854.7	3,128.8	0.0	42.1	0.0	6,025.6		301.3	120.5	482.0	120.5	
8 Hemet - Riverside	12	24,246.6	26,574.6	0.0	357.9	0.0	51,179.1		2,559.0	1,023.6	4,094.3	1,023.6	
9 San bernardino - Irvine	6	11,207.6	12,283.7	0.0	165.4	0.0	23,656.7		1,182.8	473.1	1,892.5	473.1	
10 Redlands Commuter	13	10,567.1	11,581.7	0.0	156.0	0.0	22,304.7	-	1,115.2	446.1	1,784.4	445.1	
11 Southern Pacific Routes Ports to Yuma	3	2,914.8	3,194.7	0.0	43.0	0.0	6,152.5		307.6	123.0	492.2	123.0	
12 Santa Fe Ports to Barstow	5	45,923.0	50,332.2	0.0	677.8	0.0	96,933.0		4,845.6	1,938.7	7,754.6	1,938.7	
13 Union Pacific Ports to Yermo	1	53,798.0	58,963.3	0.0	794.0	0.0	113,555.3		5,677.8	2,271.1	9,084.4	2,271.1	
TOTAL SEGMENT SPECIFIC COST		338778.7	371306.0	0.0	5000.0	0.0	715084.7	0.0	35754.2	14301.7	57206.8	14301.7	0.0
SHARE-ALL COST		4								-			
 System – Wide Traction Electrification Cost	N/A	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	23,040.0
Shops and Ancillary Facilities	N/A	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	
Control Center	N/A	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	
Locomotive Change Facilities	N/A	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	
TOTAL SHARE-ALL COST		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23040.0
TOTAL COST		338778.7	371306.0	0.0	5000.0	0.0	715084.7	0.0	35754.2	14301.7	57206.8	14301.7	23040.0

ADD-ON FACTORS		A1	н	ı	J	K	L	м	N
		Se	Force	Employee	Construction Change Orders	Project Services		Project	Total
		Segment	Account	Training	(12% of A&F)	(25% of A&F)	Subtotal	Reserves	Constant
	Seq	Specific Construction	(8% of A)	(3% of A)		(1%-B;10%-J)	(A - K)	(20% of L)	(L + M)
Route	Seq	Construction	(6% OI A)	(3% OI A)	(2% (1 b)	(1 %-0,10 %-3)	(n - n)	(20% 01 L)	(L + m)
SEGMENT SPECIFIC COST									
1 SP-UP Corridor	4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Baldwin Park Commuter	8	37,888.3	6,397.9	2,399.2	9,788.8	21,372.1	133,527.1	26,705.4	160,232.5
3 Moorpark Commuter	9	39,834.5	6,726.5	2,522.4	10,291.6	22,470.0	140,385.9	28,077.2	168,463.1
4 Santa Clarita Commuter	10	19,550.8	3,301.4	1,238.0	5,051.1	11,028.3	68,901.5	13,780.3	82,681.8
5 Lossan Corridor	11	83,783.9	14,147.9	5,305.5	21,646.3	47,261.1	295,273.7	59,054.7	354,328.5
6 Riversi de Via Ontario	2	6,209.4	1,048.5	393.2	1,604.3	3,502.6	21,883.4	4,376.7	26,260.0
7 Riverside - LAUPT via Fullerton	7	2,854.7	482.0	180.8	737.5	1,610.3	10,050.6	2,012.1	12,072.7
8 Hernet - Riverside	12	24,246.6	4,094.3	1,535.4	6,264.3	13,677.1	85,450.6	17,090.1	102,540.7
9 San bernardino - Irvine	6	11,207.6	1,892.5	709.7	2,895.6	6,322.0	39,498.2	7,899.6	47,397.8
10 Redlands Commuter	13	10,567.1	1,784.4	669.1	2,730.1	5,960.7	37,240.9	7,448.2	44,689.1
11 Southern Pacific Routes Ports to Yuma	3	2,914.8	492.2	184.6	753.1	1,644.2	10,272.4	2,054.5	12,326.9
12 Santa Fe Ports to Barstow	5	45,923.0	7,754.6	2,908.0	11,864.6	25,904.4	161,843.2	32,368.6	194,211.9
13 Union Pacific Ports to Yermo	1	53,798.0	9,084.4	3,406.7	13,899.2	30,346.5	189,596.5	37,919.3	227,515.8
TOTAL SEGMENT SPECIFIC COST		338778.7	57206.8	21452.5	87526.4	191099.2	1193934.0	238786.8	1432720.8
SHARE-ALL COST									
System-Wide Traction Electrification Cost	N/A	0.0	0.0	0.0	0.0	0.0	23,040.0	4,608.0	27,648.0
Shops and Ancillary Facilities	N/A	0.0	0.0	0.0		0.0	0.0	0.0	0.0
Control Center	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Locomotive Change Facilities	N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL SHARE-ALL COST		0.0	0.0	0.0	0.0	0.0	23040.0	4606.0	27648.0
TOTAL COST		338778.7	57206.8	21452.5	87526.4	191099.2	1216974.0	243394.8	1460368.8

INFLATION ESCALATION							INFLATED	COST			
		Total	Total	1992	1993	1994	1995	1996	1997	1998	1999
	Seq/	1992	Inflated	4.00%	4.00%	4.00%	4.00%	5.00%	5.00%	5.00%	5.00%
Route	Unit	Cost	Cost	104.00%	108.16%	112.49%	116.99%	122.84%	128.98%	135.43%	142.20%
SEGMENT SPECIFIC COST											
		100.00	1		2.0%	3.0%	4.0%	4.0%	10.0%	21.0%	21.0%
1 SP-UP Corridor	4	100.0%	0.0	1.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Baldwin Park Commuter	8	100.0%	0.0	2.0%	4.0%	6.0%	23.0%	42.0%	23.0%	0.0	0.0
2 Badwin Fack Committee		160232.5	194390.5	3332.8	6932.3	10814.4	43113.4	82665.2	47532.5		
3 Moorpark Commuter	9	100.0%	10 100010	2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
o moorpan comman		168463.1	204375.7	3504.0	7288.4	11369.9	45327.9	86911.4	49974.1		
4 Santa Clarita Commuter	10	100.0%		3.0%	5.0%	6.0%	50.0%	34.0%	1.5%	0.5%	
		82681.8	97685.1	2579.7	4471.4	5580.3	48363.0	34531.2	1599.6	559.9	
5 Lossan Corridor	11	100.0%		1.0%	3.0%	5.0%	5.0%	28.0%	28.0%	28.0%	2.0%
		354328.5	450099.7	3685.0	11497.3	19928.6	20725.7	121867.2	127980.5	134358.6	10076.9
6 Riverside Via Ontario	2	100.0%		2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
		26260.0	31858.1	546.2	1136.1	1772.3	7065.7	13547.7	7790.0		
7 Riverside - LAUPT via Fullerton	7	100.0%		2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
		12072.7	14646.4	251.1	522.3	814.8	3248.4	6226.4	3581.3		
8 Hernet - Riverside	12	100.0%	1	2.0%	5.0%	7.0%	36.0%	48.0%	2.0%		
		102540.7	122041.3	2132.8	5545.4	8074.1	43184.9	60458.9	2645.1		
9 San bernardino - Irvine	6	100.0%	1	2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
		47397.8	57501.9	985.9	2050.6	3199.0	12753.2	24452.9	14060.4		
10 Redlands Commuter	13	100.0%		3.0%	6.0%	27.0%	62.0%	2.0%	İ		
		44689.1	51378.5	1394.3	2900.1	13572.7	32413.5	1097.9			
11 Southern Pacific Routes Ports to Yuma	a 3	100.0%		1.5%	2.0%	3.5%	5.0%	12.0%	21.0%	21.0%	21.0%
	i	12326.9	16402.6	192.3	266.7	485.3	721.0	1817.0	3338.8	3505.7	3681.0
12 Santa Fe Ports to Barstow	5	100.0%		1.5%	2.0%	4.5%	5.0%	15.0%	28.0%	28.0%	15.8%
		194211.9	252199.9	3029.7	4201.2	9630.8	11360.0	35784.1	70136.8	73643.6	43633.8
13 Union Pacific Ports to Yermo	1	100.0%		1.5%	2.0%	4.5%	5.0%	15.0%	28.0%	28.0%	15.8%
	•	227515.8	295447.8	3549.2	4921.6	11516.6	13308.1	41920.4	82164.0	86272.2	51116.3
TOTAL SEGMENT SPECIFIC COST		1,432,720.8	1,788,027.6	25,183.2	51,733.4	96,958.8	281,584.9	511,282.2	410,783.0	298,339.9	108,508.0
SHARE-ALL COST											
STARE -ALE GOOT			1	.							
System - Wide Traction Electrification Cost		100.0%	į.	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
		27648.0	35351.8	2875.4	2990.4	3110.0	3234.4	3396.1	3566.0	3744.3	3031.5
Shops & Ancillary Facilities		100.0%	i	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
	L.S.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Locomotive Change Facilities		100.0%	1	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
	L.S.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Center		100.0%		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
	L.S.	0.0	10000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Locomotives			1	1							
Passenger	F4	0.0%	0.0		!					1	
	EA	0.0%	0.0						1	i	
Freight	F4	0.0	0.0	i	į						
Total Clastic Locamoticus	EA L.S.	0.0	0.0		1						
Total Electric Locomotives	L.S.	27648.0	45351.8	2875.4	2990.4	3110.0	3234.4	3396.1	3566.0	3744.3	3031.5
TOTAL SHARE -ALL COST		27040.0	-5551.8	2073.4	2550.4	3110.0	5254.4	SS-0.1	330.0	0. 44.0	
TOTAL COST		1460368.8	1833379.4	28,059	54,724	100,069	284,819	514,678	414,349	302,084	112,439

INFLATION ESCALATION									INFLATED (COST				
		Total	Total	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
	Seq/	1992	Inflated	5.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Route	Unit	Cost	Cost	149.31%	158.27%	167.76%	177.83%	188.50%	199.81%	211.79%	224.50%	237.97%	252.25%	267.39%
SEGMENT SPECIFIC COST														
1 SP-UP Corridor	4	100.0%	0.0	21.0%	12.0%	1.0%								
2 Baldwin Park Commuter	8	100.0% 160232.5	194390.5											
3 Moorpark Commuter	9	100.0% 168463.1	204375.7											
4 Santa Clarita Commuter	10	100.0% 82681.8	97685.1											
5 Lossan Corridor	11	100.0% 354328.5	450099.7											
6 Riverside Via Ontario	2	100.0%	31858.1											
7 Riverside - LAUPT via Fullerton	7	100.0%	14646.4											
8 Hernet - Riverside	12	100.0%	122041.3											
9 San bernardino – Irvine	6	100.0% 47397.8	57501.9										-	
10 Redlands Commuter	13	100.0% 44689.1	51378.5											
11 Southern Pacific Routes Ports to Yuma	3	100.0% 12326.9	16402.6	12.8% 2355.8	0.2%			5						
12 Santa Fe Ports to Barstow	5	100.0% 194211.9	252199.9	0.2% 579.9										
13 Union Pacific Ports to Yermo	1	100.0% 227515.8	295447.8	0.2% 679.4										
TOTAL SEGMENT SPECIFIC COST		1,432,720.8	1,788,027.6	3,615.2	39.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SHARE-ALL COST					1									
System - Wide Traction Electrification Cost		100.0% 27648.0	35351.8	10.0% 4128.0	10.0% 4375.7		``							
Shops & Ancillary Facilities		100.0%	33331.0	10.0%	10.0%	l				T.			1	
onopo a rindial y r admino	L.S.	0.0	0.0	0.0	0.0	1							İ	
Locomotive Change Facilities		100.0%		10.0%	10.0%									
•	L.S.	0.0	0.0	0.0	0.0	i			1	1				
Control Center		100.0%	1	10.0%	10.0%					1				
	L.S.	0.0	10000.0	0.0	0.0									
Electric Locomotives				1		!								
Passenger		0.0%	1	i	2	i				i				
	EA	0.0	0.0	!						,		i		
Freight		0.0%		i		I								
	EA	0.0	0.0			i			Ī	1				
Total Electric Locomotives	L.S.	0.0 27648.0	0.0 45351.8	4128.0	4375.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL SHARE-ALL COST		27048.0	45351.8									0.0	0.0	0.0
TOTAL COST		1460368.8	1833379.4	7,743	4,415	0	0	0	0	0 :	0	0	0	0

INFLATION ESCALATION							COST IN 19	92 (K\$)			
		Total	Total	1992	1993	1994	1995	1996	1997	1998	1999
	Seq/	1992	Inflated	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Route	Unit	Cost	Cost	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
										1	
SEGMENT SPECIFIC COST											
1 SP-UP Corridor	4	100.0%		1.0%	2.0%	3.0%	4.0%	4.0%	10.0%	21.0%	21.0%
		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2 Baldwin Park Commuter	8	100.0%	160232.5	2.0% 3204.6	4.0% 6409.3	6.0% 9613.9	23.0% 36853.5	42.0% 67297.6	23.0% 36853.5	1	
3 Moorpark Commuter	9	100.0%	100232.3	2.0%	4.0%	6.0%	23.0%	42.0%	23.0%	1	
o moo.pan oommaa		168463.1	168463.1	3369.3	6738.5	10107.8	38746.5	70754.5	38746.5	1	
4 Santa Clarita Commuter	10	100.0%		3.0%	5.0%	6.0%	50.0%	34.0%	1.5%	0.5%	
		82681.8	82681.8	2480.5	4134.1	4960.9	41340.9	28111.8	1240.2	413.4	
5 Lossan Corridor	11	100.0%		1.0%	3.0%	5.0%	5.0%	26.0%	28.0%	28.0%	2.0%
		354328.5	354328.5	3543.3	10629.9	17716.4	17716.4	99212.0	99212.0	99212.0	7086.6
6 Riverside Via Ontario	2	100.0%		2.0%	4.0%	6.0%	23.0%	42.0%	23.0%		
		26260.0	26260.0	525.2	1050.4	1575.6	6039.8	11029.2	6039.8	1	
7 Riverside – LAUPT via Fullerton	7	100.0%		2.0%	4.0%	6.0%	23.0%	42.0%	23.0%	1	
		12072.7	12072.7	241.5	482.9	724.4	2776.7	5070.6	2776.7		
8 Hernet - Riverside	12	100.0%		2.0%	5.0%	7.0%	36.0%	48.0%	2.0%		
		102540.7	102540.7	2050.8	5127.0	7177.8	36914.7	49219.5	2050.8	1	
9 San bernardino - Irvine	6	100.0%	47007.0	2.0%	4.0%	6.0%	23.0% 10901.5	42.0% 19907.1	23.0%	1	
		47397.8	47397.8	948.0 3.0%	1895.9	2843.9 27.0%	62.0%	2.0%	10901.5		
10 Redlands Commuter	13	100.0%	44689.1	1340.7	2681.3	12066.0	27707.2	893.8		į.	
44 Southern Double Double Borte to Yum	a 3	44689.1 100.0%	44009.1	1.5%	2.0%	3.5%	5.0%	12.0%	21.0%	21.0%	21.0%
11 Southern Pacific Routes Ports to Yurn	a 3	12326.9	12326.9	184.9	246.5	431.4	616.3	1479.2	2588.7	2588.7	2588.7
12 Santa Fe Ports to Barstow	5	100.0%	12525.5	1.5%	2.0%	4.5%	5.0%	15.0%	28.0%	28.0%	15.8%
12 Saina Fe Foits to baretow	•	194211.9	194211.9	2913.2	3884.2	8739.5	9710.6	29131.8	54379.3	54379.3	30685.5
13 Union Pacific Ports to Yermo	1	100.0%	15-12-11-15	1.5%	2.0%	4.5%	5.0%	15.0%	28.0%	28.0%	15.8%
13 Official active forms to remo	•	227515.8	227515.8	3412.7	4550.3	10238.2	11375.8	34127.4	63704.4	63704.4	35947.5
TOTAL OF CHEAT OFFCIEN COST		1,432,720.8	1,432,720.8	24,214.6	47,830.5	86,196.0	240,700.0	416,234.5	318,493.4	220,297.8	76,308.2
TOTAL SEGMENT SPECIFIC COST		1,432,720.8	1,432,720.0	24,214.0	47,650.5	00,190.0	240,700.0	410,2542	510,425.4	220,257.0	70,000.2
SHARE-ALL COST						1					
				40.00	40.00	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
System - Wide Traction Electrification Cost	!	100.0% 27648.0	27648.0	10.0% 2764.8	10.0% 2764.8	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8
Charles & Assillant Facilities	1	100.0%	27046.0	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Shops & Ancillary Facilities	L.S.	100.0%	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Locomotive Change Facilities	L.O.	100.0%	0.0	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
Low motive of all get a control	L.S.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Control Center	2.0.	100.0%		10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%	10.0%
CONTROL CONTROL	L.S.	0.0	10000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Electric Locomotives	;	1	1							1	
Passenger		0.0%	1		1		1			!	
an annual state of the state of	EA	0.0	0.0		1		1			į	
Freight		0.0%	1		į		1		1		
: -	EA	0.0	1.0	10.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Total Electric Locomotives	L.S.	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL SHARE-ALL COST		27648.0	37649.0	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8	2764.8
TOTAL COST		1460368.8	1470369.8	26,979	50,595	88,961	243,465	418,999	321,258	223,063	79,073

INFLATION ESCALATION									COST IN 19	992 (K\$)				
		Total	Total	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
¥	Seq/	1992	Inflated	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Route	Unit	Cost	Cost	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
SEGMENT SPECIFIC COST			1								1			
SEGMENT OF EOIR DOOD!														
1 SP-UP Corridor	4	100.0%		21.0%	12.0%	1.0%								
		0.0	0.0	0.0	0.0	0.0				1				
2 Baldwin Park Commuter	8	100.0%	160232.5								1			
3 Moorpark Commuter		100.0%	100232.3											
o moorpan commun	. 1	168463.1	168463.1									1		
4 Santa Clarita Commuter	10	100.0%									1			
		82681.8	82681.8									1		
5 Lossan Corridor	11	100.0% 354328.5	354328.5			1			1		1	1		
6 Riverside Via Ontario	2	100.0%	354320.5						1		1			
The state of the s	- 1	26260.0	26260.0								1			
7 Riverside - LAUPT via Fullerton	7	100.0%		1								1		
		12072.7	12072.7						1					
8 Hernet - Riverside	12	100.0% 102540.7	102540.7							1				
9 San bernardino – Irvine	6	100.0%	1025-0.7			1								
S CAN DETRAIGHTO HVIII	-	47397.8	47397.8						1					
10 Redlands Commuter	13	100.0%												
	_	44689.1	44689.1	40.00		i			1		1			
11 Southern Pacific Routes Ports to Yuma	3	100.0%	12326.9	12.8%	0.2% 24.7				1		1			
12 Santa Fe Ports to Barstow	5	100.0%	12020.5	0.2%	24					×	1			
		194211.9	194211.9	388.4							1			
13 Union Pacific Ports to Yermo	1	100.0%		0.2%							1			
		227515.8	227515.8	455.0										
TOTAL SEGMENT SPECIFIC COST		1,432,720.8	1,432,720.8	2,421.3	24.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL BEGINE OF BUILDING		1,102,12010	1,100,100	_,										
SHARE-ALL COST									1		1	1		
		400.00		40.00	10.0%				i	i		1		
System - Wide Traction Electrification Cost		100.0% 27648.0	27648.0	10.0%	2764.8	,	`			i				
Shops & Ancillary Facilities		100.0%		10.0%	10.0%				i		İ	:		
	L.S.		0.0	0.0	0.0	1			i					
Locomotive Change Facilities		100.0%		10.0%	10.0%				1		!			
0	L.S.	0.0 100.0%	0.0	10.0%	10.0%				i	ì		1		
Control Center .	L.S.	0.0	10000.0	0.0	0.0									
Electric Locomotives									i			į		
Passenger		0.0%		:					1			İ	!	
5-1-14	EA	0.0	0.0		:				i		i			
Freight	EA	0.0%	1.0	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%
Total Electric Locomotives	L.S.	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL SHARE -ALL COST		27648.0	37649.0	2764.8	2764.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
				:					- 1	0	0	0	_	_
TOTAL COST		1460368.8	1470369.8	5,186	2,789	0 '	0	0	0	0	0	0	0	0

APPENDIX 7-2

RPT/SCRE - 01

TOTAL COSTS* RELATED TO ELECTRIFICATION (No Segments Duplicated) 25Kv, Minimum Vertical Clearance

	COMMUTER	ONLY	COMMUTER &	FREIGHT
ELEMENTS	CONSTRUCTION COST (A)	TOTAL COST (N)	CONSTRUCTION COST (A)	TOTAL COST (N)
CIVIL, STRUCTURAL & SIGNAL COSTS	338,784,212.00	678,777,206.07	629,250,944.00	1,260,747,055.37
SYS WIDE TRACTION ELECT. COSTS	371,306,000.00	758,912,819.81	888,988,000.00	1,831,835,909.18
SHOPS & ANCILLARY FACILITIES	0.00	0.00	40,000,000.00	80,142,720.00
LOCOMOTIVE CHANGE FACILITIES	0.00	0.00	34,000,000.00	68,121,312.00
CONTROL CENTER	5,000,000.00	10,017,840.00	10,000,000.00	20,035,680.00
TOTAL	715,090,212.00	1,447,707,865.88	1,602,238,944.00	3,260,882,676.55

^{*(}Locomotives not included)

6% 2001 thru 2010

ESTIMATED COSTS RELATED TO ELECTRIFICATION

3 SHOPS & ANCILLARY FACILITIES

COMMUTER ONLY	COMMUTER & FREIGHT AMT.
	40,000,000.00
0.00	40,000,000.00
0.00	2 000 000 00
	2,000,000.00
	800,000.00
	3,200,000.00
0.00	800,000.00
0.00	0.00
0.00	3,200,000.00
0.00	1,200,000.00
0.00	4,896,000.00
0.00	10,689,600.00
0.00	66,785,600.00
0.00	13,357,120.00
0.00	80,142,720.00
	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0

ESTIMATED COSTS RELATED TO ELECTRIFICATION

8 LOCOMOTIVE CHANGE FACILITIES

PROJECT ADD-ONS	COMMUTER ONLY AMT.	COMMUTER & FREIGHT AMT.
A. Construction	0.00	34,000,000.00
B. Locomotives		,
C. Contractors Mobilization/Demobilization (5% of A)	0.00	1,700,000.00
D. Testing and Operations Mobilization (2% of A)	0.00	680,000.00
E. Owners Insurance (8% of A)	0.00	2,720,000.00
F. Mitigation (2% of A)	0.00	680,000.00
G. Right-of-Way	0.00	0.00
H. Force Account (8% of A)	0.00	2,720,000.00
I. Employee Training (3% of A)	0.00	1,020,000.00
J. Construction Change Orders (12% of A & F, 2% of B)	0.00	4,161,600.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00	9,086,160.00
L. Subtotal (A thru K)	0.00	56,767,760.00
M. Project Reserve (20% of L)	0.00	11,353,552.00
N. Total Cost in 1992 Dollars (L + M)	0.00	68,121,312.00
O. Annual Inflation:		
4% 1992 thru 1995		
5% 1995 thru 2000		
6% 2001 thru 2010		

6% 2001 thru 2010

ESTIMATED COSTS RELATED TO ELECTRIFICATION

1 CONTROL CENTER

PROJECT ADD-ONS	COMMUTER ONLY AMT.	COMMUTER & FREIGHT AMT.
A. Construction	5,000,000.00	10,000,000.00
B. Locomotives		
C. Contractors Mobilization/Demobilization (5% of A)	250,000.00	500,000.00
D. Testing and Operations Mobilization (2% of A)	100,000.00	200,000.00
E. Owners Insurance (8% of A)	400,000.00	800,000.00
F. Mitigation (2% of A)	100,000.00	200,000.00
G. Right-of-Way	0.00	0.00
H. Force Account (8% of A)	400,000.00	800,000.00
I. Employee Training (3% of A)	150,000.00	300,000.00
J. Construction Change Orders (12% of A & F, 2% of B)	612,000.00	1,224,000.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	1,336,200.00	2,672,400.00
L. Subtotal (A thru K)	8,348,200.00	16,696,400.00
	1,669,640.00	3,339,280.00
	10,017,840.00	20,035,680.00
F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	100,000.00 0.00 400,000.00 150,000.00 612,000.00 1,336,200.00 8,348,200.00 1,669,640.00	200,000.00 0.00 800,000.00 300,000.00 1,224,000.00 2,672,400.00 16,696,400.00 3,339,280.00

5% 1995 thru 2000 6% 2001 thru 2010

SYSTEM-WIDE TRACTION ELECTRIFICATION COSTS (NO SEGMENTS DUPLICATED) 25Kv, Minimum Vertical Clearance

PROJECT ADD-ONS	COMMUTER ONLY <u>AMT.</u>	COMMUTER & FREIGHT AMT.
A. Construction	371,306,000.00	888,988,000.00
B. Locomotives		
C. Contractors Mobilization/Demobilization (5% of A)	18,565,300.00	44,449,400.00
D. Testing and Operations Mobilization (2% of A)	7,426,120.00	17,779,760.00
E. Owners Insurance (8% of A)	29,704,480.00	71,119,040.00
F. Mitigation (2% of A)	7,426,120.00	17,779,760.00
G. Right-of-Way	12,480,000.00	42,240,000.00
H. Force Account (8% of A)	29,704,480.00	71,119,040.00
I. Employee Training (3% of A)	11,139,180.00	26,669,640.00
J. Construction Change Orders (12% of A & F, 2% of B)	45,447,854.40	108,812,131.20
K. Project Services (25% of A & F, 1% of B, 10% of J)	99,227,815.44	237,573,153.12
L. Subtotal (A thru K)	632,427,349.84	1,526,529,924.32
M. Project Reserve (20% of L)	126,485,469.97	305,305,984.86
N. Total Cost in 1992 Dollars (L + M)	758,912,819.81	1,831,835,909.18
O. Annual Inflation:		
4% 1992 thru 1995		

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION 25Kv, Minimum Vertical Clearance

*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER ONLY

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	DUPLICATED CONSTRUCTION COSTS (A)	DUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	63,766,458.00	139,280,434.72
2.	Baldwin Park Commuter	57	57	93,454,320.00	189,546,085.01
3.	Moorpark Commuter	48	46	91,795,256.00	186,222,037.47
4.	Santa Clarita Commuter	35	24	68,264,880.00	137,925,329.09
5.	Lossan Corridor	134	133	248,469,820.00	502,434,180.32
6.	Riverside Via Ontario	59	24	108,899,602.00	220,491,757.78
7.	Riverside – Laupt via Fullerton	62	35	126,768,720.00	256,293,750.79
8.	Hemet – Riverside	39	39	54,387,174.00	110,120,401.44
9.	San Bernardino – Irvine	53	13	105,997,534.00	214,677,267.20
10.	Redlands Commuter	12	12	18,917,216.00	39,053,928.63
, 11.	Southern Pacific Routes Ports to Yuma	282	16	7,474,685.00	15,576,039.68
12.	Santa Fe Ports to Barstow	176	0	133,593,390.00	273,423,441.22
13.	Union Pacific Ports to Yermo	187	0	117,114,448.00	239,254,760.35

TOTAL2.WK! 04-Feb-92

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION
25Kv, Minimum Vertical Clearance
*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER & FREIGHT

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	DUPLICATED CONSTRUCTION COSTS (A)	DUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	744,585,526.00	1,513,715,733.16
2.	Baldwin Park Commuter	57	57	93,454,320.00	189,546,085.01
3.	Moorpark Commuter	48	46	91,795,256.00	186,222,037.47
4.	Santa Clarita Commuter	35	24	68,264,880.00	137,925,329.09
5.	Lossan Corridor	134	133	276,862,300.00	562,776,444.69
6.	Riverside Via Ontario	59	24	124,703,922.00	253,308,787.59
7.	Riverside – Laupt via Fullerton	62	35	142,581,496.00	289,127,722.78
8.	Hemet - Riverside	39	39	54,387,174.00	110,120,401.44
9.	San Bernardino - Irvine	53	13	126,635,550.00	257,178,935.64
10.	Redlands Commuter	12	12	18,917,216.00	39,053,928.63
11.	Southern Pacific Routes Ports to Yuma	282	16	511,363,224.00	1,040,678,991.98
12.	Santa Fe Ports to Barstow	176	0	369,135,726.00	748,804,528.27
13.	Union Pacific Ports to Yermo	187	0	394,749,044.00	801,274,552.59

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION 25Kv, Minimum Vertical Clearance

*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER ONLY (NO SEGMENTS DUPLICATED)

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	UNDUPLICATED CONSTRUCTION COSTS (A)	UNDUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	26,363,458.00	52,820,980.82
2.	Baldwin Park Commuter	57	57	44,493,320.00	89,145,392.17
3.	Moorpark Commuter	48	46	39,835,032.00	79,812,195.39
4.	Santa Clarita Commuter	35	24	19,550,888.00	39,171,533.57
5.	Lossan Corridor	134	133	113,398,884.00	227,202,375.22
6.	Riverside Via Ontario	59	24	20,107,920.00	40,287,585.06
7.	Riverside – Laupt via Fullerton	62	35	26,549,648.00	53,194,025.14
8.	Hemet – Riverside	39	39	27,483,174.00	55,064,407.96
9.	San Bernardino – Irvine	53	13	10,434,672.00	20,906,574.91
10.	Redlands Commuter	12	12	10,567,216.00	21,172,135.83
11.	Southern Pacific Routes Ports to Yuma	282	16	0.00	0.00
12.	Santa Fe Ports to Barstow	176	0	0.00	0.00
13.	Union Pacific Ports to Yermo	187	0	0.00	0.00
TOTAL:				338,784,212.00	678,777,206.07

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION
25Kv, Minimum Vertical Clearance
*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not include

COMMUTER & FREIGHT (NO SEGMENTS DUPLICATED)

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	UNDUPLICATED CONSTRUCTION COSTS (A)	UNDUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	285,894,526.00	572,809,123.67
2.	Baldwin Park Commuter	57	57	44,493,320.00	89,145,392.17
3.	Moorpark Commuter	48	46	39,835,032.00	79,812,195.39
4.	Santa Clarita Commuter	35	24	19,550,888.00	39,171,533.57
5.	Lossan Corridor	134	133	113,747,364.00	227,900,578.59
6.	Riverside Via Ontario	59	24	20,266,320.00	40,604,950.23
7.	Riverside – Laupt via Fullerton	62	35	32,894,624.00	65,906,616.02
8.	Hemet - Riverside	39	39	27,483,174.00	55,064,407.96
9.	San Bernardino - Irvine	53	13	10,529,712.00	21,096,994.01
10.	Redlands Commuter	12	12	10,567,216.00	21,172,135.83
11.	Southern Pacific Routes Ports to Yuma	282	16	13,702,336.00	27,453,561.93
12.	Santa Fe Ports to Barstow	176	0	10,286,432.00	20,609,565.99
13.	Union Pacific Ports to Yermo	187	0	0.00	0.00
TOTAL:				629,250,944.00	1,260,747,055.37

ROUTE 1 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 26,363,458.00	ROUTE 3 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 39,835,032.00
B. Locomotives	,	B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	1,318,172.90	C. Contractors Mobilization/Demobilization (5% of A)	1,991,751.60
D. Testing and Operations Mobilization (2% of A)	527,269.16	D. Testing and Operations Mobilization (2% of A)	796,700.64
E. Owners Insurance (8% of A)	2,109,076.64	E. Owners Insurance (8% of A)	3,186,802.56
F. Mitigation (2% of A)	527,269.16	F. Mitigation (2% of A)	796,700.64
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	2,109,076.64	H. Force Account (8% of A)	3,186,802.56
I. Employee Training (3% of A)	790,903.74	I. Employee Training (3% of A)	1,195,050.96
J. Construction Change Orders (12% of A & F, 2% of B)	3,226,887.26	J. Construction Change Orders (12% of A & F, 2% of B)	4,875,807.92
K. Project Services (25% of A & F, 1% of B, 10% of J)	7,045,370.52	K. Project Services (25% of A & F, 1% of B, 10% of J)	10,645,513.95
L. Subtotal (A thru K)	44,017,484.02	L. Subtotal (A thru K)	66,510,162.83
M. Project Reserve (20% of L)	8,803,496.80	M. Project Reserve (20% of L)	13,302,032.57
N. Total Cost in 1992 Dollars (L + M)	52,820,980.82	N. Total Cost in 1992 Dollars (L + M)	79,812,195.39
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 2 PROJECT ADD - ONS	AMT.	ROUTE 4 PROJECT ADD - ONS	AMT.
A. Construction	44,493,320.00	A. Construction	19,550,888.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	2,224,666.00	C. Contractors Mobilization/Demobilization (5% of A)	977,544.40
D. Testing and Operations Mobilization (2% of A)	889,866.40	D. Testing and Operations Mobilization (2% of A)	391,017.76
E. Owners Insurance (8% of A)	3,559,465.60	E. Owners Insurance (8% of A)	1,564,071.04
F. Mitigation (2% of A)	889,866.40	F. Mitigation (2% of A)	391,017.76
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	3,559,465.60	H. Force Account (8% of A)	1,564,071.04
I. Employee Training (3% of A)	1,334,799.60	I. Employee Training (3% of A)	586,526.64
J. Construction Change Orders (12% of A & F, 2% of B)	5,445,982.37	J. Construction Change Orders (12% of A & F, 2% of B)	2,393,028.69
K. Project Services (25% of A & F, 1% of B, 10% of J)	11,890,394.84	K. Project Services (25% of A & F, 1% of B, 10% of J)	5,224,779.31
L. Subtotal (A thru K)	74,287,826.80	L. Subtotal (A thru K)	32,642,944.64
M. Project Reserve (20% of L)	14,857,565.36	M. Project Reserve (20% of L)	6,528,588.93
N. Total Cost in 1992 Dollars (L + M)	89,145,392.17	N. Total Cost in 1992 Dollars (L + M)	39,171,533.57
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD - ONS	AMT.	ROUTE 7 PROJECT ADD - ONS	AMT.
A. Construction	113,398,884.00	A. Construction	26,549,648.00
B. Locomotives	F 660 044 00	B. Locomotives	1 207 482 40
C. Contractors Mobilization/Demobilization (5% of A)	5,669,944.20	C. Contractors Mobilization/Demobilization (5% of A)	1,327,482.40
D. Testing and Operations Mobilization (2% of A)	2,267,977.68	D. Testing and Operations Mobilization (2% of A)	530,992.96 2,123,971.84
E. Owners Insurance (8% of A)	9,071,910.72	E. Owners Insurance (8% of A)	
F. Mitigation (2% of A)	2,267,977.68	F. Mitigation (2% of A) G. Right-of-Way	530,992.96
G. Right-of-Way H. Force Account (8% of A)	9,071,910.72	H. Force Account (8% of A)	2,123,971.84
I. Employee Training (3% of A)	3,401,966.52	I. Employee Training (3% of A)	796,489.44
J. Construction Change Orders (12% of A & F, 2% of B)	13,880,023.40	J. Construction Change Orders (12% of A & F, 2% of B)	3,249,676.92
K. Project Services (25% of A & F, 1% of B, 10% of J)	30,304,717.76	K. Project Services (25% of A & F, 1% of B, 10% of J)	7,095,127.93
L. Subtotal (A thru K)	189,335,312.68	L. Subtotal (A thru K)	44,328,354.29
M. Project Reserve (20% of L)	37,867,062.54	M. Project Reserve (20% of L)	8,865,670.86
N. Total Cost in 1992 Dollars (L + M)	227,202,375.22	N. Total Cost in 1992 Dollars (L + M)	53,194,025.14
O. Annual Inflation:	221,202,313.22	O. Annual Inflation:	33,134,023.14
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
070 2001 tilla 2010		070 2001 4114 2010	
ROUTE 6 PROJECT ADD - ONS	AMT.	ROUTE 8 PROJECT ADD - ONS	AMT.
A. Construction	<u>AMT.</u> 20,107,920.00	A. Construction	<u>AMT.</u> 27,483,174.00
A. Construction B. Locomotives	20,107,920.00	A. Construction B. Locomotives	27,483,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	20,107,920.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	27,483,174.00 1,374,158.70
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	20,107,920.00 1,005,396.00 402,158.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	27,483,174.00 1,374,158.70 549,663.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	20,107,920.00 1,005,396.00 402,158.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	27,483,174.00 1,374,158.70 549,663.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60 2,461,209.41	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60 2,461,209.41 5,373,640.54	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50 7,344,603.42
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60 2,461,209.41 5,373,640.54 33,572,987.55	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50 7,344,603.42 45,887,006.64
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60 2,461,209.41 5,373,640.54 33,572,987.55 6,714,597.51	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50 7,344,603.42 45,887,006.64 9,177,401.33
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60 2,461,209.41 5,373,640.54 33,572,987.55	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50 7,344,603.42 45,887,006.64
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60 2,461,209.41 5,373,640.54 33,572,987.55 6,714,597.51	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50 7,344,603.42 45,887,006.64 9,177,401.33
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60 2,461,209.41 5,373,640.54 33,572,987.55 6,714,597.51	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50 7,344,603.42 45,887,006.64 9,177,401.33
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	20,107,920.00 1,005,396.00 402,158.40 1,608,633.60 402,158.40 1,608,633.60 603,237.60 2,461,209.41 5,373,640.54 33,572,987.55 6,714,597.51	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50 7,344,603.42 45,887,006.64 9,177,401.33

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD - ONS	AMT.	ROUTE 11 PROJECT ADD - ONS	AMT.
A. Construction	10,434,672.00	A. Construction	0.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	521,733.60	C. Contractors Mobilization/Demobilization (5% of A)	0.00
D. Testing and Operations Mobilization (2% of A)	208,693.44	D. Testing and Operations Mobilization (2% of A)	0.00
E. Owners Insurance (8% of A)	834,773.76	E. Owners Insurance (8% of A)	0.00
F. Mitigation (2% of A)	208,693.44	F. Mitigation (2% of A)	0.00
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	834,773.76	H. Force Account (8% of A)	0.00
I. Employee Training (3% of A)	313,040.16	I. Employee Training (3% of A)	0.00
J. Construction Change Orders (12% of A & F, 2% of B)	1,277,203.85	J. Construction Change Orders (12% of A & F, 2% of B)	0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	2,788,561.75	K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00
L. Subtotal (A thru K)	17,422,145.76	L. Subtotal (A thru K)	0.00
M. Project Reserve (20% of L)	3,484,429.15	M. Project Reserve (20% of L)	0.00
N. Total Cost in 1992 Dollars (L + M)	20,906,574.91	N. Total Cost in 1992 Dollars (L + M)	0.00
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 10 PROJECT ADD - ONS	AMT.	ROUTE 12 PROJECT ADD - ONS	AMT.
ROUTE 10 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 10,567,216.00	ROUTE 12 PROJECT ADD – ONS A. Construction	AMT. 0.00
A. Construction B. Locomotives		A. Construction B. Locomotives	
A. Construction		A. Construction	
A. Construction B. Locomotives	10,567,216.00	A. Construction B. Locomotives	0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	10,567,216.00 528,360.80	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	10,567,216.00 528,360.80 211,344.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	10,567,216.00 528,360.80 211,344.32 845,377.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	10,567,216.00 528,360.80 211,344.32 845,377.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	0.00 0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	0.00 0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	0.00 0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48 1,293,427.24	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	0.00 0.00 0.00 0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48 1,293,427.24 2,823,982.80	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48 1,293,427.24 2,823,982.80 17,643,446.52	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48 1,293,427.24 2,823,982.80 17,643,446.52 3,528,689.30	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48 1,293,427.24 2,823,982.80 17,643,446.52 3,528,689.30	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48 1,293,427.24 2,823,982.80 17,643,446.52 3,528,689.30	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48 1,293,427.24 2,823,982.80 17,643,446.52 3,528,689.30	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	0.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	0.00
D. Testing and Operations Mobilization (2% of A)	0.00
E. Owners Insurance (8% of A)	0.00
F. Mitigation (2% of A)	0.00
G. Right-of-Way	
H. Force Account (8% of A)	0.00
I. Employee Training (3% of A)	0.00
J. Construction Change Orders (12% of A & F, 2% of B)	0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00
L. Subtotal (A thru K)	0.00
M. Project Reserve (20% of L)	0.00
N. Total Cost in 1992 Dollars (L + M)	0.00
O. Annual Inflation:	
4% 1992 thru 1995	
5% 1995 thru 2000	
6% 2001 thru 2010	

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 1 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 63,766,458.00	ROUTE 3 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 91,795,256.00
B. Locomotives	33,733,733.33	B. Locomotives	31,733,233.03
C. Contractors Mobilization/Demobilization (5% of A)	3,188,322.90	C. Contractors Mobilization/Demobilization (5% of A)	4,589,762.80
D. Testing and Operations Mobilization (2% of A)	1,275,329.16	D. Testing and Operations Mobilization (2% of A)	1,835,905.12
E. Owners Insurance (8% of A)	5,101,316.64	E. Owners Insurance (8% of A)	7,343,620.48
F. Mitigation (2% of A)	1,275,329.16	F. Mitigation (2% of A)	1,835,905.12
G. Right-of-Way	9,600,000.00	G. Right-of-Way	1,920,000.00
H. Force Account (8% of A)	5,101,316.64	H. Force Account (8% of A)	7,343,620.48
I. Employee Training (3% of A)	1,912,993.74	I. Employee Training (3% of A)	2,753,857.68
J. Construction Change Orders (12% of A & F, 2% of B)	7,805,014.46	J. Construction Change Orders (12% of A & F, 2% of B)	11,235,739.33
K. Project Services (25% of A & F, 1% of B, 10% of J)	17,040,948.24	K. Project Services (25% of A & F, 1% of B, 10% of J)	24,531,364.21
L. Subtotal (A thru K)	116,067,028.94	L. Subtotal (A thru K)	155,185,031.23
M. Project Reserve (20% of L)	23,213,405.79	M. Project Reserve (20% of L)	31,037,006.25
N. Total Cost in 1992 Dollars (L + M)	139,280,434.72	N. Total Cost in 1992 Dollars (L + M)	186,222,037.47
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 2 PROJECT ADD – ONS	AMT.	ROUTE 4 PROJECT ADD – ONS	AMT.
ROUTE 2 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 93,454,320.00	A. Construction	<u>AMT.</u> 68,264,880.00
A. Construction B. Locomotives		A. Construction B. Locomotives	
A. Construction		A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	93,454,320.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	68,264,880.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	93,454,320.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	68,264,880.00 3,413,244.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84 31,591,014.17	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24 22,987,554.85
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84 31,591,014.17	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24 22,987,554.85
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84 31,591,014.17	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24 22,987,554.85
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84 31,591,014.17	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24 22,987,554.85

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD – ONS	AMT.	ROUTE 7 PROJECT ADD - ONS	AMT.
A. Construction	248,469,820.00	A. Construction	126,768,720.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	12,423,491.00	C. Contractors Mobilization/Demobilization (5% of A)	6,338,436.00
D. Testing and Operations Mobilization (2% of A)	4,969,396.40	D. Testing and Operations Mobilization (2% of A)	2,535,374.40
E. Owners Insurance (8% of A)	19,877,585.60	E. Owners Insurance (8% of A)	10,141,497.60
F. Mitigation (2% of A)	4,969,396.40	F. Mitigation (2% of A)	2,535,374.40
G. Right-of-Way	3,840,000.00	G. Right-of-Way	1,920,000.00
H. Force Account (8% of A)	19,877,585.60	H. Force Account (8% of A)	10,141,497.60
I. Employee Training (3% of A)	7,454,094.60	I. Employee Training (3% of A)	3,803,061.60
J. Construction Change Orders (12% of A & F, 2% of B)	30,412,705.97	J. Construction Change Orders (12% of A & F, 2% of B)	15,516,491.33
K. Project Services (25% of A & F, 1% of B, 10% of J)	66,401,074.70	K. Project Services (25% of A & F, 1% of B, 10% of J)	33,877,672.73
L. Subtotal (A thru K)	418,695,150.26	L. Subtotal (A thru K)	213,578,125.66
M. Project Reserve (20% of L)	83,739,030.05	M. Project Reserve (20% of L)	42,715,625.13
N. Total Cost in 1992 Dollars (L + M)	502,434,180.32	N. Total Cost in 1992 Dollars (L + M)	256,293,750.79
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 6 PROJECT ADD-ONS	AMT.	ROUTE 8 PROJECT ADD - ONS	AMT.
A. Construction	108,899,602.00	A. Construction	54,387,174.00
A. Construction B. Locomotives	108,899,602.00	A. Construction B. Locomotives	54,387,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	108,899,602.00 5,444,980.10	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	54,387,174.00 2,719,358.70
 A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) 	108,899,602.00 5,444,980.10 2,177,992.04	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	54,387,174.00 2,719,358.70 1,087,743.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06 13,329,311.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06 13,329,311.28 29,102,329.64	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06 13,329,311.28 29,102,329.64 183,743,131.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06 13,329,311.28 29,102,329.64 183,743,131.48 36,748,626.30	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20 18,353,400.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06 13,329,311.28 29,102,329.64 183,743,131.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06 13,329,311.28 29,102,329.64 183,743,131.48 36,748,626.30	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20 18,353,400.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06 13,329,311.28 29,102,329.64 183,743,131.48 36,748,626.30	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20 18,353,400.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	108,899,602.00 5,444,980.10 2,177,992.04 8,711,968.16 2,177,992.04 1,920,000.00 8,711,968.16 3,266,988.06 13,329,311.28 29,102,329.64 183,743,131.48 36,748,626.30	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20 18,353,400.24

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD-ONS	AMT.	ROUTE 11 PROJECT ADD - ONS	AMT.
A. Construction	105,997,534.00	A. Construction	7,474,685.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	5,299,876.70	C. Contractors Mobilization/Demobilization (5% of A)	373,734.25
D. Testing and Operations Mobilization (2% of A)	2,119,950.68	D. Testing and Operations Mobilization (2% of A)	149,493.70
E. Owners Insurance (8% of A)	8,479,802.72	E. Owners Insurance (8% of A)	597,974.80
F. Mitigation (2% of A)	2,119,950.68	F. Mitigation (2% of A)	149,493.70
G. Right-of-Way	1,920,000.00	G. Right-of-Way	500,000.00
H. Force Account (8% of A)	8,479,802.72	H. Force Account (8% of A)	597,974.80
I. Employee Training (3% of A)	3,179,926.02	I. Employee Training (3% of A)	224,240.55
J. Construction Change Orders (12% of A & F, 2% of B)	12,974,098.16	J. Construction Change Orders (12% of A & F, 2% of B)	914,901.44
K. Project Services (25% of A & F, 1% of B, 10% of J)	28,326,780.99	K. Project Services (25% of A & F, 1% of B, 10% of J)	1,997,534.82
L. Subtotal (A thru K)	178,897,722.67	L. Subtotal (A thru K)	12,980,033.06
M. Project Reserve (20% of L)	35,779,544.53	M. Project Reserve (20% of L)	2,596,006.61
N. Total Cost in 1992 Dollars (L + M)	214,677,267.20	N. Total Cost in 1992 Dollars (L + M)	15,576,039.68
O. Annual Inflation:		O. Annual Inflation:	,
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 10 PROJECT ADD - ONS	AMT.	ROUTE 12 PROJECT ADD - ONS	AMT.
A. Construction	<u>AMT.</u> 18,917,216.00	A. Construction	<u>AMT.</u> 133,593,390.00
A. Construction B. Locomotives	18,917,216.00	A. Construction B. Locomotives	133,593,390.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	18,917,216.00 945,860.80	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	133,593,390.00 6,679,669.50
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	18,917,216.00 945,860.80 378,344.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	133,593,390.00 6,679,669.50 2,671,867.80
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	18,917,216.00 945,860.80 378,344.32 1,513,377.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	133,593,390.00 6,679,669.50
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20 4,007,801.70 16,351,830.94 35,701,497.54
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48 2,315,467.24	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20 4,007,801.70 16,351,830.94 35,701,497.54 227,852,867.68
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48 2,315,467.24 5,055,436.80	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20 4,007,801.70 16,351,830.94 35,701,497.54
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48 2,315,467.24 5,055,436.80 32,544,940.52	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20 4,007,801.70 16,351,830.94 35,701,497.54 227,852,867.68
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48 2,315,467.24 5,055,436.80 32,544,940.52 6,508,988.10	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20 4,007,801.70 16,351,830.94 35,701,497.54 227,852,867.68 45,570,573.54
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48 2,315,467.24 5,055,436.80 32,544,940.52 6,508,988.10	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20 4,007,801.70 16,351,830.94 35,701,497.54 227,852,867.68 45,570,573.54
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48 2,315,467.24 5,055,436.80 32,544,940.52 6,508,988.10	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20 4,007,801.70 16,351,830.94 35,701,497.54 227,852,867.68 45,570,573.54
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	18,917,216.00 945,860.80 378,344.32 1,513,377.28 378,344.32 960,000.00 1,513,377.28 567,516.48 2,315,467.24 5,055,436.80 32,544,940.52 6,508,988.10	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	133,593,390.00 6,679,669.50 2,671,867.80 10,687,471.20 2,671,867.80 4,800,000.00 10,687,471.20 4,007,801.70 16,351,830.94 35,701,497.54 227,852,867.68 45,570,573.54

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

5% 1995 thru 2000 6% 2001 thru 2010

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	117,114,448.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	5,855,722.40
D. Testing and Operations Mobilization (2% of A)	2,342,288.96
E. Owners Insurance (8% of A)	9,369,155.84
F. Mitigation (2% of A)	2,342,288.96
G. Right-of-Way	3,840,000.00
H. Force Account (8% of A)	9,369,155.84
I. Employee Training (3% of A)	3,513,433.44
J. Construction Change Orders (12% of A & F, 2% of B)	14,334,808.44
K. Project Services (25% of A & F, 1% of B, 10% of J)	31,297,665.08
L. Subtotal (A thru K)	199,378,966.96
M. Project Reserve (20% of L)	39,875,793.39
N. Total Cost in 1992 Dollars (L + M)	239,254,760.35
O. Annual Inflation:	
4% 1992 thru 1995	

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

	<u>Units</u>	Unit Costs	#1 Quantity	Cost	#2 Quantity	Cost	#3 Quantity	Cost	#4 Quantity	Cost	#5 Quantity	<u>Cost</u>
Stabilize Track for Electrification Single Track	T.F.	6	296,208	1,777,248	422,400	2,534,400	403,392	2,420,352	161,568	969,408	1,267,200	7,603,200
Overhead Utility Relocations	L.S.	16,000	10	160,000	37	592,000	16	256,000	12	192,000	49	784,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right – of – Way Acquisition	Ac.	800,000	0	. 0	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	. 0	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Change Facilities	E L.S.	4,000,000 / 6,000,000	0	0	0	0	. 0	0	0	0	0	0
<u>Electric</u> <u>Locomotives</u> Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	24	2,400,000	78	7,800,000	33	3,300,000	25	2,500,000	101	10,100,000
Communications SCADA (Supervisor Control)	ry R.F.	30	188,496	5,654,880	299,904	8,997,120	246,048	7,381,440	125,136	3,754,080	702,768	21,083,040

	Units	Unit Costs	#1 Quantity	Cost	# Quantity	2 Cost	Quantity	E3 Cost	Quantity #	4 Cost	Quantity	E5 Cost
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000	0	0	0	0	0	0	0	0	0	0
Track Lowering Single Track (12"Av)	T.F.	40	2,000	80,000	6,000	240,000	2,000	80,000	1,000	40,000	44,000	1,760,000
Tunnel Modification Track Lowering Structural Mod. Signals (Wayside) Phase Sel & Tru-II	ns T.F. R.F. T.F.	500 3,000 55	0 0 296,206	0 0 16,291,330	0 0 442,360	0 0 24,329,800	770	3,970,000 2,310,000 20,117,240	7,000 0 156,280	3,500,000	0 0	0 0 68,534,400
Cab Signals	T.F.	7	0	0	0	0	0	20,117,240	0	8,595,400 0	1,246,080 504,892	3,534,244
TOTAL COST			- :	26,363,458		44,493,320		39,835,032		19,550,888		113,398,884

	Units	Unit Costs	#6 Quantity	Cost	#7 Quantity	Cost	#8 Quantity	Cost	#9 Quantity	Cost	Quantity	#10 <u>Cost</u>
Stabilize Track for Electrification Single Track	T.F.	6	213,840	1,283,040	269,808	1,618,848	236,544	1,419,264	105,072	630,432	67,056	402,336
Overhead Utility Relocations	L.S.	16,000	13	208,000	19	304,000	30	480,000	9	144,000	21	336,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right – of – Way Acquisition	Ac.	800,000	0	0	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0	0	0 -
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Chang Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	27	2,700,000	39	3,900,000	61	6,100,000	20	2,000,000	42	4,200,000
Communications SCADA (Supervisor Control)	ry R.F.	30	119,856	3,595,680	186,912	5,607,360	206,448	6,193,440	67,056	2,011,680	63,360	1,900,800

	Units	Unit Costs	Quantity	6 Cost	# Quantity	7 Cost	Quantity	Cost	Quantity #5	<u>Cost</u>	Quantity	Cost
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance												
Improvements	L.S. L.S.	600,000 700,000	0	0	0	0	0	0	0	0	0	0
	L.S.	1,000,000										
Track Lowering Single Track (12"Av)	T.F.	40	14,000	560,000	7,000	280,000	7,000	280,000	4,000	160,000	1,000	40,000
Tunnel Modification												
Track Lowering Structural Mod.	T.F. R.F.	500 3,000	0	0	0	0	0	0	0	0	0	0
Signals (Wayside)												
Phase Sel & Tru-II	T.F.	55	213,840	11,761,200	269,808	14,839,440	236,554	13,010,470	99,792	5,488,560	67,056	3,688,080
Cab Signals	T.F.	7	0	0	0	0	0	0	0	0	0	0
TOTAL COST				20,107,920		26,549,648		27,483,174		10,434,672		10,567,216

						,				
	Units	Unit Costs	#11 Quantity Cost		#1 Quantity	2 Cost	Quantity	#13 <u>Cost</u>	TOTAL QUANTITY	TOTAL COST
Stabilize Track for Electrification Single Track	T.F.	6	0	0	0	0		0	3,443,088	20,658,528
Overhead Utility Relocations	L.S.	16,000	0	0	0	0		0	216	3,456,000
Underground Utility Relocations	L.F.	0	0	0	0	0		0	0	0
Right-of-Way Acquisition	Ac.	800,000	0	0	0	0		0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0		0	0	0
Site Demolition	C.Y.	80	0	0	0	0		0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0		0	0	0
Locomotive Change Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000	0	0	0	0		0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0		0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	0	0	0	0		0	450	45,000,000
Communications SCADA (Supervisor Control)	ry R.F.	30	0	0	0	0		0	2,205,984	66,179,520

	Units	Unit Costs	#11 Quantity Cost	Quanti	#12 ty <u>Cost</u>	#1 Quantity	13 Cost	TOTAL QUANTITY	TOTAL COST
	Onico	Ont oosts							
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0
Overhead Bridge Clearance Improver (Including Approache Vertical Clearance									
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000	0	0	0	0	0	0	0
Track Lowering Single Track (12"Av)	T.F.	40	0	0	0	0	0	88,000	3,520,000
Tunnel Modification Track Lowering Structural Mod.	is T.F. R.F.	500 3,000	0	0 0	0 0	0	0	14,940 770	7,470,000 2,310,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F.	55 7	0	0	0 0	0	0	3,393,744 504,892	186,655,920 3,534,244
TOTAL COST				0		0	0	9,652,084	338,784,212

	<u>Units</u>	Unit Costs	#1 Quantity	Cost	#2 Quantity	Cost	#3 Quantity	Cost	#4 Quantity	Cost	# Quantity	5 Cost
Stabilize Track for Electrification Single Track	T.F.	6	296,208	1,777,248	422,400	2,534,400	434,016	2,604,096	327,360	1,964,160	1,294,656	7,767,936
Overhead Utility Relocations	L.S.	16,000	10	160,000	37	592,000	16	256,000	16	256,000	49	784,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right-of-Way Acquisition	Ac.	800,000	0	0	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0	0 0 0	0	0 0 0
Crossing Warning Systems	EA	100,000	24	2,400,000	78	7,800,000	33	3,300,000	34	3,400,000	101	10,100,000
Communications SCADA (Superviso Control)	ry R.F.	30	188,496	5,654,880	299,904	8,997,120	250,800	7,524,000	184,272	5,528,160	705,936	21,178,080

	<u>Units</u>	Unit Costs	Quantity	f 1 Cost	##	2 Cost	Quantity	F3 Cost	Quantity	Cost	Quantity	≸5 <u>Cost</u>
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance Improvements		600,000 700,000	0	0	0	0	0	0	0	0	0	0
	L.S.	1,000,000										
Track Lowering Single Track (12"Av)	T.F.	40	2,000	80,000	6,000	240,000	2,000	80,000	1,000	40,000	44,000	1,760,000
Tunnel Modification Track Lowering Structural Mod.	n <u>s</u> T.F. R.F.	500 3,000	0	0	0	0	7,940 770	3,970,000 2,310,000	7,000 0	3,500,000 0	0 0	0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	296,206 0	16,291,330 0	442,360 0	24,329,800 0	426,912 0	23,480,160 0	326,192 0	17,940,560 0	1,300,992 504,892	71,554,560 3,534,244
TOTAL COST				26,363,458		44,493,320		43,524,256		32,628,880		116,678,820

	Units	Unit Costs	# Quantity	6 Cost	#7 Quantity	Cost	# Quantity	8 Cost	#9 Quantity	<u>Cost</u>	Quantity	≇10 <u>Cost</u>
Stabilize Track for Electrification Single Track	T.F.	6	540,672	3,244,032	601,920	3,611,520	236,544	1,419,264	435,600	2,613,600	67,056	402,336
Overhead Utility Relocations	L.S.	16,000	23	368,000	26	416,000	30	480,000	34	544,000	21	336,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right-of-Way Acquisition	Ac.	800,000	0	0	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	. 80	0	0	. 0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Chang Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
<u>Electric</u> <u>Locomotives</u> Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	51	5,100,000	54	5,400,000	61	6,100,000	71	7,100,000	42	4,200,000
Communications SCADA (Superviso Control)	ry R.F.	30	313,104	9,393,120	326,304	9,789,120	206,448	6,193,440	278,784	8,363,520	63,360	1,900,800

	<u>Units</u>	Unit Costs	Quantity	₽6 Cost	Quantity	Cost	Quantity	E8 Cost	# Quantity	9 Cost	Quantity	F10 Cost
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance	es)										۰	
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000	0	0	0	0	0	0	0	0	0	0
Track Lowering Single Track (12"Av)	T.F.	40	16,000	640,000	15,000	600,000	7,000	280,000	13,000	520,000	1,000	40,000
Tunnel Modificatio Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000	0	0	0	0	0	0	0	0	0	0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	571,190 0	31,415,450 0	608,256 0	33,454,080 0	236,554 0	13,010,470 0	430,330 70,752	23,668,150 495,264	67,056 0	3,688,080 0
TOTAL COST				50,160,602		53,270,720		27,483,174		43,304,534		10,567,216

	<u>Units</u>	Unit Costs	#1 Quantity	1 Cost	Quantity	12 Cost	# Quantity	13 Cost	TOTAL QUANTITY	TOTAL COST
Stabilize Track for Electrification Single Track	T.F.	6	63,360	380,160	628,320	3,769,920	589,248	3,535,488	5,937,360	35,624,160
Overhead Utility Relocations	L.S.	16,000	3	48,000	33	528,000	30	480,000	328	5,248,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0
Right – of – Way Acquisition	Ac.	800,000	0	. 0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs	*	0.20	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	7	700,000	70	7,000,000	67	6,700,000	693	69,300,000
Communications SCADA (Supervisor Control)	r y R.F.	30	23,760	712,800	360,624	10,818,720	352,176	10,565,280	3,553,968	106,619,040

	<u>Units</u>	Unit Costs	Quantity	#11 Cost	Quantity	F12 Cost	Quantity #	f13 Cost	TOTAL QUANTIT	TOTAL COST
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance										
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000	0	0	0	0	0	0	0	
Track Lowering Single Track (12"Av)	T.F.	40	10,000	400,000	15,000	600,000	10,000	400,000	142,000	5,680,000
Tunnel Modification Track Lowering Structural Mod.	n <u>s</u> T.F. R.F.	500 3,000	0	0	0	0	0	0	14,940 770	7,470,000 2,310,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	58,080 0	3,194,400 0	623,050 0	34 ,267,750 0	583,976 0	32,118,680 0	5,971,154 575,644	328,413,470 4,029,508
TOTAL COST				5,435,360		56,984,390		53,799,448	16,196,857	564,694,178

			#1		#2		#3	0 4	#4		# Quantity	5 Cost
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	27,456	164,736	3,168	19,008	2,112	12,672	67,056	402,336	33,792	202,752
Overhead Utility Relocations	L.S.	16,000		0		0		0		0	3	48,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right-of-Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		, 0		0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0		0		0		0	7	700,000

	Units	Unit Costs	#1 Quantity	Cost	# Quantity	2 Cost	#3 Quantity	Cost	#4 Quantity	Cost	# Quantity	5 <u>Cost</u>
Control)	R.F.	30	3,168	95,040	1,584	47,520	1,056	31,680	61,248	1,837,440	13,200	396,000
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance Improvements		600,000 700,000 1,000,000		0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0		0		0		0		0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 . 3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	54,912	3,020,160 0	6,232	342,760 0	2,112	116,160 0	67,056	3,688,080 0	28,512	1,568,160 0
TOTAL COST				3,279,936		409,288		160,512		5,927,856		2,914,912

			#6		#7		#8	3	i	# 9	#	10
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	130,944	785,664	6,336	38,016			0 151,536	909,216	12,672	76,032
Overhead Utility Relocations	L.S.	16,000	13	208,000	1	16,000			0 20	320,000	0	0
Underground Utility Relocations	L.F.	0		0		0			0	0		0
Right – of – Way Acquisition	Ac.	800,000		0		0			0	0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0			0	0		0
Site Demolition	C.Y.	80		0		0			0	0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0			0	0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0			0	0		0
Electric Locomotives Passenger	L.S. EA	5,250,000		0		0			0	0		0
Freight	EA	4,000,000		0		0			0	0		. 0
Crossing Warning Systems	EA	100,000	27	2,700,000	3	300,000			0 41	4,100,000	1	100,000
Communications SCADA (Superviso	ry				-							

	<u>Units</u>	Unit Costs	#6 Quantity	Cost	# Quantity	7 Cost	Quantity	#8 Cost		#	9 Cost	# Quantity	10 Cost
Control)	R.F.	30	90,816	2,724,480	6,336	190,080			0	122,496	3,674,880	6,336	190,080
Control Center	L.S.	10,000,000		0		0			0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		0		0			0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0		0			0	6,000	240,000		0
Tunnel Modificatio Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		0		0			0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	130,944	7,201,920 0		348,480 0			0	146,256	8,044,080 0	12,672	696,960 0
TOTAL COST				13,620,064		892,576			0		17,288,176		1,063,072

	Units	Unit Costs	#11 Quantity Cost		# Quantity	12 Cost	#1	13 Cost	# Quantity	14 Cost	# Quantity	15 Cost
	Units	Unit Costs	Quantity Cost		Quantity	Oost	Quantity	Oust	Quantity	0031	Quantity	
Stabilize Track for Electrification Single Track	T.F.	6		0	122,496	734,976	161,568	969,408	77,088	462,528	191,136	1,146,816
Overhead Utility Relocations	L.S.	16,000		0	4	64,000	12	192,000	3	48,000	9	144,000
Underground Utilit Relocations	Y L.F.	0		0		0		0		0		0
Right-of-Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Chang Facilities	je L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger	L.S. E A	5,250,000		0		0		0		0		0
Freight	EA	4,000,000		0		0		0		0		0
Crossing Warning Systems	EA	100,000		0	8	800,000	25	2,500,000	6	600,000	18	1,800,000
Communications												

	Units	Unit Costs	#1 Quantity	1 Cost	<u>(</u>	#: Quantity	12 Cost	# Quantity	13 Cost	#1	Cost	Quantity	F15 Cost
Control)	R.F.	30			0	48,048	1,441,440	125,136	3,754,080	38,544	1,156,320	153,120	4,593,600
Control Center	L.S.	10,000,000			0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance Improvements		600,000 700,000			0		0		0		0		0
	L.S.	1,000,000											
Track Lowering Single Track (12"Av)	T.F.	40			0		. 0	1,000	40,000		0	2,000	80,000
Tunnel Modification Track Lowering Structural Mod.	n <u>s</u> T.F. R.F.	500 3,000			0		0	7,000	3,500,000 0		0	7,940 770	3,970,000 2,310,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7			0	96,096	5,285,280 0	156,280	8,595,400 0	70,088	3,854,840 0	186,912	10,280,160 0
TOTAL COST					0		8,325,696		19,550,888		6,121,688		24,324,576

	<u>Units</u>	Unit Costs	Quantity	16 Cost	Quantity	#17 Cost	Quantity	#18 <u>Cost</u>	Quantity	#19 Cost	Quantity	#20 Cost
Stabilize Track for Electrification Single Track	T.F.	6			0 54,912	329,472	13,728	82,368	80,256	481,536	141,504	849,024
Overhead Utility Relocations	L.S.	16,000			0	0		0	1	16,000	5	80,000
Underground Utility Relocations	L.F.	0			0	0		0		0		0
Right-of-Way Acquisition	Ac.	800,000			0	0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20			0	0		0		0		0
Site Demolition	C.Y.	. 80			0	0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000			0	0		0		0		0
Locomotive Change Facilities	L.S.	4,000,000 / 6,000,000			0	0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000			0 0 0	0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000			0	0		0	2	200,000	11	1,100,000
Communications												

			#	16		#	17	#1	18	#	19	#	20
	Units	Unit Costs	Quantity	Cost	<u>C</u>	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Control)	R.F.	30			0	16,896	506,880	6,864	205,920	40,128	1,203,840	68,112	2,043,360
Control Center	L.S.	10,000,000			0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance	es)								0		0		0
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000			0		0		0		Ü		Ū
Track Lowering Single Track (12"Av)	T.F.	40			0	4,000	160,000	4,000	160,000		0		0
Tunnel Modification									_				
Track Lowering Structural Mod.	T.F. R.F.	500 3,000			0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7			0	33,792	1,858,560 0	13,728	755,040 0	80,256	4,414,080 0	141,504	7,782,720 0
TOTAL COST					0		2,854,912		1,203,328		6,315,456		11,855,104

	11-14-	Hait Casta	#2		#2		#2			24	#2	25 Cost
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	86,064	516,384	70,752	424,512	226,512	1,359,072	334,224	2,005,344	68,112	408,672
Overhead Utility Relocations	L.S.	16,000	8	128,000	7	112,000	3	48,000	14	224,000	8	128,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right-of-Way Acquisition	Ac.	800,000		. 0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	E L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	17	1,700,000	14	1,400,000	7	700,000	28	2,800,000	16	1,600,000
Communications SCADA (Supervisor	r y			,								

	Units	Unit Costs	#2 Quantity	21 Cost	# Quantity	22 Cost	duantity	23 Cost	4 Quantity	F24 Cost	# Quantity	25 Cost
Control)	R.F.	30	41,712	1,251,360	32,736	982,080	154,176	4,625,280	217,008	6,510,240	29,568	887,040
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance Improvements		600,000 700,000 1,000,000		0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40	4,000	160,000	2,000	80,000	10,000	400,000	15,000	600,000	2,000	80,000
Tunnel Modification Track Lowering Structural Mod. Signals (Wayside) Phase Sel & Tru-II Cab Signals	1.5 T.F. R.F. T.F. T.F.	500 3,000 55 7	86,064	0 0 4,733,520 0	70,752 70,752	0 0 3,891,360 495,264	226,512 226,512	0 0 12,458,160 1,585,584	334,224 207,628	0 0 18,382,320 1,453,396	68,112	0 0 3,746,160 0
TOTAL COST				8,489,264		7,385,216		21,176,096		31,975,300		6,849,872

	Units	Unit Costs	#2 Quantity	26 Cost	# Quantity	27 Cost	#2 Quantity	28 Cost	Quantity	29 Cost	Quantity	#30 Cost
Stabilize Track for Electrification Single Track	T.F.	6	57,024	342,144	212,784	1,276,704	0		0 0	(10,560	63,360
Overhead Utility Relocations	L.S.	16,000	5	80,000	14	224,000			0	(i	0
Underground Utility Relocations	L.F.	0		0		0			0	(ſ	0
Right-of-Way Acquisition	Ac.	800,000		0		0			0	(i -	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0			0	(ı.	0
Site Demolition	C.Y.	80		0		0			0	(i.	0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0			0	(0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0			0	(0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0			0	(0 0 0
Crossing Warning Systems	EA	100,000	11	1,100,000	28	2,800,000			0		1	100,000
Communications												

SCADA (Supervisory

	<u>Units</u>	Unit Costs	#2 Quantity	26 Cost	# Quantity	27 Cost	#28 Quantity	8 Cost	Quantity	#29 <u>Cost</u>	Quantity	#30 Cost
Control)	R.F.	30	28,512	855,360	158,400	4,752,000	0	0	0		5,280	158,400
Control Center	L.S.	10,000,000		0		0		0	r			0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		0		0		· c			0	0
Track Lowering Single Track (12"Av)	T.F.	40		0	7,000	280,000)		0	0
Tunnel Modificatio Track Lowering Structural Mod.	ns T.F. R.F.	500 · 3,000		0		0		(0	0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	57,024	3,136,320 0	212,784	11,703,120 0		(0 10,56 0	580,800
TOTAL COST				5,513,824		21,035,824		()		0	902,560

	<u>Units</u>	Unit Costs	#31 Quantity	Cost	Quantity	#32 <u>Cost</u>	Quantity	#33 <u>Cost</u>	#: Quantity	34 <u>Cost</u>	# Quantity	35 Cost
Stabilize Track for Electrification Single Track	T.F.	6	78,672	472,032	67,584	405,504	84,480	506,880	54,912	329,472	170,016	1,020,096
Overhead Utility Relocations	L.S.	16,000	2	32,000	2	32,000	3	48,000	3	48,000	12	192,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
<u>Electric</u> <u>Locomotives</u> Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	5	500,000	5	500,000	7	700,000	6	600,000	25	2,500,000

			#3			32		33	#3			[‡] 35
	<u>Units</u>	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Control)	R.F.	30	49,632	1,488,960	33,792	1,013,760	61,776	1,853,280	38,016	1,140,480	105,072	3,152,160
Control Center	L.S.	10,000,000		0		0		0		0		. 0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance	es)											0
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000				0		0		0		Ü
Track Lowering Single Track (12"Av)	T.F.	40		0		0		0	2,000	80,000	4,000	160,000
Tunnel Modificatio Track Lowering Structural Mod.	n <u>s</u> T.F. R.F.	500 3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	78,672	4,326,960 0	67,582	3,717,010 0	84,480	4,646,400 0		3,020,160 0	170,016	9,350,880 0
TOTAL COST				6,819,952		5,668,274		7,754,560		5,218,112		16,375,136

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CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Kv, Minimum Vertical Clearance

	<u>Units</u>	Unit Costs	Quantity	#36 <u>Cost</u>	Qu	# antity	37 Cost	Quantity	#38 <u>Cost</u>	Quantity	#39 <u>Cost</u>	Quantit	#40 cy <u>Cost</u>	
Stabilize Track for Electrification Single Track	T.F.	6	0		0	29,568	177,408	0		0	0	0	0	0
Overhead Utility Relocations	L.S.	16,000			0		0			0		0		0
Underground Utility Relocations	L.F.	0			0		0			0		0		0
Right-of-Way Acquisition	Ac.	800,000			0		0			0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20			0		0			0		0		0
Site Demolition	C.Y.	80			0		0			0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000			0		0			0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000			0		0			0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000			0 0 0		0 0 0			0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	0		0		0	0		0	0	0	0	0
Communications														

			#3	36		#3		#3			#39		#40	
	Units	Unit Costs	Quantity	Cost	9	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quanti	ty Cost	
Control)	R.F.	30	0		0	10,560	316,800	0		0 0		0	0	0
Control Center	L.S.	10,000,000			0		0			0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000			0		0			0		0		0
Track Lowering Single Track (12"Av)	T.F.	40			0	10,000	400,000			0		0	0	0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000			0		0			0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0		0	29,568	1,626,240 0	0		0 0 0	1	0	0	0
TOTAL COST					0		2,520,448			0		0		0

	<u>Units</u>	Unit Costs	Quantity	#41 Cost	Qu	#42 uantity	Cost	Quanti	#43 ty <u>Cost</u>	Qua	#4	4 Cost	Qua	#4	5 Cost	
Stabilize Track for Electrification Single Track	T.F.	6	0		0	0		0	0	0	0		0	0		0
Overhead Utility Relocations	L.S.	16,000			0			0		0			0			0
Underground Utility Relocations	L.F.	0			0			0		0			0			0
Right-of-Way Acquisition	Ac.	800,000			0			0		0			0			0
Relocation Costs, Legal Fees, Other ROW Costs		0.20			0			0		0			0			0
Site Demolition	C.Y.	. 80			0			0		0			0			0
Shops & Ancillary Facilities	L.S.	40,000,000			0			0		0			0			0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000			0			0		0			0			0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000			0 0 0			0 0 0		0 0 0			0 0 0			0 0 0
Crossing Warning Systems	EA	100,000	0	1	0	0		0		0	0		0	0		0

	Units	Unit Costs	#4	Cost	Quan	#42 tity Cost	Qua	#43	<u>st</u>	#4 Quantity	4 Cost	Qua	#4 ntity	5 Cost	
Control)	R.F.	30	0		0	0	0	0	0	0		0 '	0		0
Control Center	L.S.	10,000,000			0		0		0			0			0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance															
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000			0		0		0			0			0
Track Lowering Single Track (12"Av)		40			0	0	0		0	0		0	0		0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000			0		0		0			0			0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0		0	0	0	0	0	0		0	0		0
TOTAL COST					0		0		0			0			0

	<u>Units</u>	Unit Costs	#46 Quantity Cos	t <u>Quan</u>	#47	Quar	#48	#49 Quantity Cost	#50 Quantity Cos	<u>t</u>
Stabilize Track for Electrification Single Track	T.F.	6	0	0	0	0 29	9,040 174,24	0	0 0	0
Overhead Utility Relocations	L.S.	16,000	0	0		0	5 80,000)	0	0
Underground Utility Relocations	L.F.	0		0		0)	0	0
Right – of – Way Acquisition	Ac.	800,000		. 0		0			0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0	i)	0	0
Site Demolition	C.Y.	80		0		0)	0	0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0)	0	0
Locomotive Change Facilities	L.S.	4,000,000 / 6,000,000		0		0)	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0			0 0 0	0 0 0
Crossing Warning Systems	EA	100,000		0		0	11 1,100,000		0	0
Communications										

			#4			47		#4			49	_	#50		
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	9	Quantity	Cost	Quantity	Cost	Qua	ntity	Cost	
Control)	R.F.	30	0	<i>y</i> ()		0	29,040	871,200	0		0	0		0
Control Center	L.S.	10,000,000		()		0		0			0			0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		C			0		0			0 .			0
Track Lowering Single Track (12"Av)	T.F.	40		()		0		0			0			0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		()		0		0			0			0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0		0		0	29,040	1,597,200 0	0		0	0		0
TOTAL COST				()		0		3,822,640			0			0

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CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Kv, Minimum Vertical Clearance

	<u>Units</u>	Unit Costs	#51 Quantity Co	ost	Quantity	52 Cost	Quantity	₹53 <u>Cost</u>	Quantity	#54 <u>Cost</u>	Quantity	#55 Cost
Stabilize Track for Electrification Single Track	T.F.	6	0	0	32,736	196,416	42,240	253,440	28,512	171,072	5,280	31,680
Overhead Utility Relocations	L.S.	16,000		0	3	48,000	1	16,000	3	48,000		0
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	E L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0	7	700,000	2	200,000	7	700,000		0
Communications												

	Units	Unit Costs	#! Quantity	51 Cost	Quantity	#52 <u>Cost</u>	# Quantity	53 Cost	# Quantity	54 Cost	# Quantity	55 Cost
Control)	R.F.	30	0		0 16,368	491,040	18,480	554,400	14,256	427,680	5,280	158,400
Control Center	L.S.	10,000,000			0	0		0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000			0	0		0		0		0
Track Lowering Single Track (12"Av) T.F.	40			0	0	2,000	80,000	2,000	80,000		0
Tunnel Modification Track Lowering Structural Mod.	ons T.F. R.F.	500 · 3,000			0	0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals		55 7	0		0 32,746 0	1,801,030 0		2,032,800 0		1,568,160 0	5,280	290,400
TOTAL COST					0	3,236,486	i	3,136,640		2,994,912		480,480

	Units	Unit Costs	#56 Quantity Co	st Qua	#57	#5 Quantity	58 Cost	Quantity	59 Cost	#6 Quantity	0 Cost
Stabilize Track for Electrification Single Track	T.F.	6	0	0	0	0 0		0 0	0	0	0
Overhead Utility Relocations	L.S.	16,000	0	0	0	0	,	0 0	0	0	0
Underground Utility Relocations	L.F.	0		0		0		0	O		0
Right-of-Way Acquisition	Ac.	800,000		0		0		0	C	ı	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0	C		0
Site Demolition	C.Y.	80		0		0		0	(i	0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0	()	0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0	(í	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	»	0 0 0		0 0 0		0 0 0	(ĺ	0 0 0
Crossing Warning Systems	EA	100,000	0	0	0	0		0 0	()	0
Communications											

CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Kv, Minimum Vertical Clearance

	Units	Unit Costs	#56 Quantity	Cost	Quantity	57 Cost	Quanti	#58 ty <u>Cost</u>	Quant	#59	Quant	#60 tity Cost	
Control)	R.F.	30	0	0	0		0	0	0	0	0	0	0
Control Center	L.S.	10,000,000		0			0		0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		0			0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0	0		0	0	0		0		0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		0			0		0		0 0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0 0	0			0	0	0	0	0	0	0
TOTAL COST				0	i.		0		0		0		0

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CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Kv, Minimum Vertical Clearance

		<u>Units</u>	Unit Costs	# Quantity	61 Cost	Quantity	#62 <u>Cost</u>	Quan	#63 tity Cost	Quantity	#64 Cost	Quantity	#65 Cost	
Stabilize Electrifica Single Tra	ation	T.F.	6	0	0	0		0	0	0		0		0
Overhead Relocatio		L.S.	16,000		0			0		0		0		0
Undergro Relocatio	ound Utility ons	L.F.	0		0			0		0		0		0
Right-of Acquisition		Ac.	800,000		0			0		0		0		0
Relocatio Legal Fee Other RO	es,		0.20		0			0		0		0		0
Site Dem	olition	C.Y.	80		0			0		0		0		0
Shops & Facilities		L.S.	40,000,000		0			0		0		0		0
Facilities	ive Change	E.S.	4,000,000 / 6,000,000		0			0		0		0		0
Electric Locomoti Passenge Freight		L.S. EA EA	5,250,000 4,000,000		0 0 0			0 0 0		0 0 0		0 0 0		0 0 0
Crossing Systems	Warning	EA	100,000		0			0	0	0		0		0
Commun	ications													

Communications
SCADA (Supervisory

CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Kv, Minimum Vertical Clearance

	Units	Unit Costs	#61 Quantity	Cost	Quantity	62 Cost	Quantity	63 Cost	#64 Quantity Cost	#65 Quantity	Cost
Control)	R.F.	30	0	0		0		0		0	0
Control Center	L.S.	10,000,000	0	0	0	0	U	0		0	0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		0		O)	0		0	0
Track Lowering Single Track (12"Av)	T.F.	40		0	0	C)	0		0	0
Tunnel Modification Track Lowering Structural Mod.	T.F. R.F.	500 3,000		0		0		0		0	0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0	0		C	0	0		0 0	0
TOTAL COST				0		C)	0		0	0

CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Kv, Minimum Vertical Clearance

	<u>Units</u>	Unit Costs	#66 Quantity	Cost	#67 Quantity Cos	<u>t</u> 9	#6 Quantity	8 Cost	Quantity	⊭69 <u>Cos</u> t	Quantity	#70 <u>Cost</u>	
Stabilize Track for Electrification Single Track	T.F.	6	0	0		0	67,056	402,336	203,808	1,222,848	0		0
Overhead Utility Relocations	L.S.	16,000		0		0	21	336,000	27	432,000	0		0
Underground Utility Relocations	L.F.	0		0		0		0		0			0
Right-of-Way Acquisition	Ac.	800,000		0		0		0		0			0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0			0
Site Demolition	C.Y.	. 80		0		0		0		0			0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0			0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0			0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0			0 0 0
Crossing Warning Systems	EA	100,000		0		0	42	4,200,000	54	5,400,000	0		0
Communications													

Communications
SCADA (Supervisory

CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Ky, Minimum Vertical Clearance

	Units	Unit Costs	# Quantity	66 Cost	Quantity	#67 Cost	0	#	68 Cost	# Quantity	69 Cost	Quantity	#70 Cost	<u>t</u>
Control)	R.F.	30	0		0		0	63,360	1,900,800	190,080	5,702,400	0		0
Control Center	L.S.	10,000,000			0		0		0		0			0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000			0 4		0		0		0			0
Track Lowering Single Track (12"Av)	T.F.	40			0		0	1,000	40,000	7,000	280,000			0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000			0		0		0		0			0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0 0		0		0	67,056	3,688,080 0	203,808	11,209,440	0		0
TOTAL COST				,	0		0		10,567,216		24,246,688			0

CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Kv, Minimum Vertical Clearance

	<u>Units</u>	Unit Costs	#7	1 Cost	# Quantity	72 Cost	TOTAL QUANTITY	TOTAL COST
Stabilize Track for Electrification Single Track	T.F.	6	14,256	85,536	191,136	1,146,816	3,443,088	20,658,528
Overhead Utility Relocations	L.S.	16,000	1	16,000	3	48,000	216	3,456,000
Underground Utility Relocations	L.F.	0		0		0	0	0
Right—of—Way Acquisition	Ac.	800,000		. 0		0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0	0	0
Site Demolition	C.Y.	80		0		0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0	0	; O
Locomotive Change Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000		0		0	0	o
Electric				0		0	0	0
Locomotives	L.S.	E 050 000		0		0	0	0
Passenger Freight	EA EA	5,250,000 4,000,000		0		0	0	0
Crossing Warning Systems	EA	100,000	2	200,000	6	600,000	450	45,000,000
Communications SCADA (Superviso	ry							

CIVIL, STRUCTURAL, SIGNAL, & SCADA SEGMENT COSTS RELATED TO ELECTRIFICATION COMMUTER ONLY 25Kv, Minimum Vertical Clearance

			#7	71		¹ 72		
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	TOTAL QUANTITY	TOTAL COST
Control)	R.F.	30	4,224	126,720	95,568	2,867,040	2,205,984	66,179,520
Control Center	L.S.	10,000,000		0		0	0	0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance								
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0	0	0
Track Lowering								
Single Track (12"Av)	T.F.	40		0	3,000	120,000	88,000	3,520,000
Tunnel Modification	S							
Track Lowering	T.F.	500		0		0	14,940	7,470,000
Structural Mod.	R.F.	3,000		0		0	770	2,310,000
Signals (Wayside)								
Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	14,256	784,080 0	191,136	10,512,480 0	3,393,744 504,892	186,655,920 3,534,244
TOTAL COST				1,212,336		15,294,336	9,652,084	338,784,212

ROUTE 1 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 744,585,526.00	ROUTE 3 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 91,795,256.00
B. Locomotives	744,303,320.00	B. Locomotives	31,733,230.00
C. Contractors Mobilization/Demobilization (5% of A)	37,229,276.30	C. Contractors Mobilization/Demobilization (5% of A)	4,589,762.80
D. Testing and Operations Mobilization (2% of A)	14,891,710.52	D. Testing and Operations Mobilization (2% of A)	1,835,905.12
E. Owners Insurance (8% of A)	59,566,842.08	E. Owners Insurance (8% of A)	7,343,620.48
F. Mitigation (2% of A)	14,891,710.52	F. Mitigation (2% of A)	1,835,905.12
G. Right-of-Way	18,240,000.00	G. Right-of-Way	1,920,000.00
H. Force Account (8% of A)	59,566,842.08	H. Force Account (8% of A)	7,343,620.48
I. Employee Training (3% of A)	22,337,565.78	I. Employee Training (3% of A)	2,753,857.68
J. Construction Change Orders (12% of A & F, 2% of B)	91,137,268.38	J. Construction Change Orders (12% of A & F, 2% of B)	11,235,739.33
K. Project Services (25% of A & F, 1% of B, 10% of J)	198,983,035.97	K. Project Services (25% of A & F, 1% of B, 10% of J)	24,531,364.21
L. Subtotal (A thru K)	1,261,429,777.63	L. Subtotal (A thru K)	155,185,031.23
M. Project Reserve (20% of L)	252,285,955.53	M. Project Reserve (20% of L)	31,037,006.25
N. Total Cost in 1992 Dollars (L + M)	1,513,715,733.16	N. Total Cost in 1992 Dollars (L + M)	186,222,037.47
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 2 PROJECT ADD – ONS	AMT.	ROUTE 4 PROJECT ADD – ONS	AMT.
ROUTE 2 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 93,454,320.00	ROUTE 4 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 68,264,880.00
A. Construction B. Locomotives		A. Construction B. Locomotives	
A. Construction		A. Construction	
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	93,454,320.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	68,264,880.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	93,454,320.00 4,672,716.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84 31,591,014.17	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24 22,987,554.85
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84 31,591,014.17	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24 22,987,554.85
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84 31,591,014.17	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24 22,987,554.85
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	93,454,320.00 4,672,716.00 1,869,086.40 7,476,345.60 1,869,086.40 1,920,000.00 7,476,345.60 2,803,629.60 11,438,808.77 24,974,732.48 157,955,070.84 31,591,014.17	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	68,264,880.00 3,413,244.00 1,365,297.60 5,461,190.40 1,365,297.60 960,000.00 5,461,190.40 2,047,946.40 8,355,621.31 18,243,106.53 114,937,774.24 22,987,554.85

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD – ONS	AMT.	ROUTE 7 PROJECT ADD – ONS	AMT.
A. Construction	276,862,300.00	A. Construction	142,581,496.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	13,843,115.00	C. Contractors Mobilization/Demobilization (5% of A)	7,129,074.80
D. Testing and Operations Mobilization (2% of A)	5,537,246.00	D. Testing and Operations Mobilization (2% of A)	2,851,629.92
E. Owners Insurance (8% of A)	22,148,984.00	E. Owners Insurance (8% of A + 2% of B)	11,406,519.68
F. Mitigation (2% of A)	5,537,246.00	F. Mitigation (2% of A)	2,851,629.92
G. Right-of-Way	6,720,000.00	G. Right-of-Way	2,880,000.00
H. Force Account (8% of A)	22,148,984.00	H. Force Account (8% of A)	11,406,519.68
I. Employee Training (3% of A)	8,305,869.00	I. Employee Training (3% of A)	4,277,444.88
J. Construction Change Orders (12% of A & F, 2% of B)	33,887,945.52	J. Construction Change Orders (12% of A & F, 2% of B)	17,451,975.11
K. Project Services (25% of A & F, 1% of B, 10% of J)	73,988,681.05	K. Project Services (25% of A & F, 1% of B, 10% of J)	38,103,478.99
L. Subtotal (A thru K)	468,980,370.57	L. Subtotal (A thru K)	240,939,768.98
M. Project Reserve (20% of L)	93,796,074.11	M. Project Reserve (20% of L)	48,187,953.80
N. Total Cost in 1992 Dollars (L + M)	562,776,444.69	N. Total Cost in 1992 Dollars (L + M)	289,127,722.78
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 6 PROJECT ADD - ONS	AMT.	ROUTE 8 PROJECT ADD - ONS	AMT.
A. Construction	<u>AMT.</u> 124,703,922.00	A. Construction	<u>AMT.</u> 54,387,174.00
A. Construction B. Locomotives	124,703,922.00	A. Construction B. Locomotives	54,387,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	124,703,922.00 6,235,196.10	A. ConstructionB. LocomotivesC. Contractors Mobilization/Demobilization (5% of A)	54,387,174.00 2,719,358.70
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	124,703,922.00	 A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) 	54,387,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	124,703,922.00 6,235,196.10	 A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) 	54,387,174.00 2,719,358.70
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A)	54,387,174.00 2,719,358.70 1,087,743.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76 3,741,117.66	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76 3,741,117.66 15,263,760.05	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76 3,741,117.66 15,263,760.05 33,325,876.12	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76 3,741,117.66 15,263,760.05 33,325,876.12 211,090,656.33	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76 3,741,117.66 15,263,760.05 33,325,876.12 211,090,656.33 42,218,131.27	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20 18,353,400.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76 3,741,117.66 15,263,760.05 33,325,876.12 211,090,656.33 42,218,131.27	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20 18,353,400.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76 3,741,117.66 15,263,760.05 33,325,876.12 211,090,656.33 42,218,131.27	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20 18,353,400.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	124,703,922.00 6,235,196.10 2,494,078.44 9,976,313.76 2,494,078.44 2,880,000.00 9,976,313.76 3,741,117.66 15,263,760.05 33,325,876.12 211,090,656.33 42,218,131.27	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	54,387,174.00 2,719,358.70 1,087,743.48 4,350,973.92 1,087,743.48 960,000.00 4,350,973.92 1,631,615.22 6,656,990.10 14,534,428.38 91,767,001.20 18,353,400.24

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	AMT. 126,635,550.00 6,331,777.50 2,532,711.00 10,130,844.00 2,532,711.00 2,880,000.00 10,130,844.00 3,799,066.50 15,500,191.32 33,842,084.38 214,315,779.70 42,863,155.94 257,178,935.64	ROUTE 11 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	AMT. 511,363,224.00 25,568,161.20 10,227,264.48 40,909,057.92 10,227,264.48 13,440,000.00 40,909,057.92 15,340,896.72 62,590,858.62 136,656,707.98 867,232,493.32 173,446,498.66 1,040,678,991.98
4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010		4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	
ROUTE 10 PROJECT ADD – ONS A. Construction B. Locomotives	<u>AMT.</u> 18,917,216.00	ROUTE 12 PROJECT ADD – ONS A. Construction B. Locomotives	AMT. 369,135,726.00
C. Contractors Mobilization/Demobilization (5% of A)	945,860.80	C. Contractors Mobilization/Demobilization (5% of A)	18,456,786.30
D. Testing and Operations Mobilization (2% of A)	378,344.32	D. Testing and Operations Mobilization (2% of A)	7,382,714.52
E. Owners Insurance (8% of A)	1,513,377.28	E. Owners Insurance (8% of A)	29,530,858.08
F. Mitigation (2% of A)	378,344.32	F. Mitigation (2% of A)	7,382,714.52
G. Right-of-Way	960,000.00	G. Right-of-Way	7,680,000.00
H. Force Account (8% of A)	1,513,377.28	H. Force Account (8% of A)	29,530,858.08
I. Employee Training (3% of A)	567,516.48	I. Employee Training (3% of A)	11,074,071.78
J. Construction Change Orders (12% of A & F, 2% of B)	2,315,467.24	J. Construction Change Orders (12% of A & F, 2% of B)	45,182,212.86
K. Project Services (25% of A & F, 1% of B, 10% of J)	5,055,436.80	K. Project Services (25% of A & F, 1% of B, 10% of J)	98,647,831.42
L. Subtotal (A thru K)	32,544,940.52	L. Subtotal (A thru K)	624,003,773.56
M. Project Reserve (20% of L)	6,508,988.10	M. Project Reserve (20% of L)	124,800,754.71
N. Total Cost in 1992 Dollars (L + M)	39,053,928.63	N. Total Cost in 1992 Dollars (L + M)	748,804,528.27
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 13 PROJECT ADD - ONS	AMT.
A. Construction	394,749,044.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	19,737,452.20
D. Testing and Operations Mobilization (2% of A)	7,894,980.88
E. Owners Insurance (8% of A)	31,579,923.52
F. Mitigation (2% of A)	7,894,980.88
G. Right-of-Way	8,640,000.00
H. Force Account (8% of A)	31,579,923.52
I. Employee Training (3% of A)	11,842,471.32
J. Construction Change Orders (12% of A & F, 2% of B)	48,317,282.99
K. Project Services (25% of A & F, 1% of B, 10% of J)	105,492,734.52
L. Subtotal (A thru K)	667,728,793.82
M. Project Reserve (20% of L)	133,545,758.76
N. Total Cost in 1992 Dollars (L + M)	801,274,552.59
O. Annual Inflation:	
4% 1992 thru 1995	
5% 1995 thru 2000	
6% 2001 thru 2010	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	AMT. 285,894,526.00 14,294,726.30 5,717,890.52 22,871,562.08 5,717,890.52 22,871,562.08 8,576,835.78 34,993,489.98 76,402,453.13 477,340,936.39 95,468,187.28 572,809,123.67	ROUTE 3 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	AMT. 39,835,032.00 1,991,751.60 796,700.64 3,186,802.56 796,700.64 3,186,802.56 1,195,050.96 4,875,807.92 10,645,513.95 66,510,162.83 13,302,032.57 79,812,195.39
O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000		O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 2 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 44,493,320.00	ROUTE 4 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 19,550,888.00
	11,100,020.00		10,000,000.00
B. LocomotivesC. Contractors Mobilization/Demobilization (5% of A)	2,224,666.00	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	977,544.40
B. LocomotivesC. Contractors Mobilization/Demobilization (5% of A)D. Testing and Operations Mobilization (2% of A)	2,224,666.00 889,866.40	B. LocomotivesC. Contractors Mobilization/Demobilization (5% of A)D. Testing and Operations Mobilization (2% of A)	977,544.40 391,017.76
 B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) 	2,224,666.00 889,866.40 3,559,465.60	 B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) 	977,544.40 391,017.76 1,564,071.04
 B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) 	2,224,666.00 889,866.40	 B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) 	977,544.40 391,017.76
 B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way 	2,224,666.00 889,866.40 3,559,465.60 889,866.40	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	977,544.40 391,017.76 1,564,071.04 391,017.76
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	977,544.40 391,017.76 1,564,071.04 391,017.76
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60 5,445,982.37	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64 2,393,028.69
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60 5,445,982.37 11,890,394.84	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64 2,393,028.69 5,224,779.31
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60 5,445,982.37 11,890,394.84 74,287,826.80	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64 2,393,028.69 5,224,779.31 32,642,944.64
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60 5,445,982.37 11,890,394.84 74,287,826.80 14,857,565.36	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64 2,393,028.69 5,224,779.31 32,642,944.64 6,528,588.93
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60 5,445,982.37 11,890,394.84 74,287,826.80	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64 2,393,028.69 5,224,779.31 32,642,944.64
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60 5,445,982.37 11,890,394.84 74,287,826.80 14,857,565.36	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64 2,393,028.69 5,224,779.31 32,642,944.64 6,528,588.93
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60 5,445,982.37 11,890,394.84 74,287,826.80 14,857,565.36	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64 2,393,028.69 5,224,779.31 32,642,944.64 6,528,588.93
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	2,224,666.00 889,866.40 3,559,465.60 889,866.40 3,559,465.60 1,334,799.60 5,445,982.37 11,890,394.84 74,287,826.80 14,857,565.36	B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	977,544.40 391,017.76 1,564,071.04 391,017.76 1,564,071.04 586,526.64 2,393,028.69 5,224,779.31 32,642,944.64 6,528,588.93

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	AMT. 113,747,364.00 5,687,368.20 2,274,947.28 9,099,789.12 2,274,947.28 9,099,789.12 3,412,420.92 13,922,677.35 30,397,845.56 189,917,148.83 37,983,429.77 227,900,578.59	ROUTE 7 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	AMT. 32,894,624.00 1,644,731.20 657,892.48 2,631,569.92 657,892.48 2,631,569.92 986,838.72 4,026,301.98 8,790,759.32 54,922,180.02 10,984,436.00 65,906,616.02
4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010 ROUTE 6 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	AMT. 20,266,320.00 1,013,316.00 405,326.40 1,621,305.60 405,326.40 1,621,305.60 607,989.60 2,480,597.57 5,415,971.36 33,837,458.52 6,767,491.70 40,604,950.23	4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010 ROUTE 8 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	AMT. 27,483,174.00 1,374,158.70 549,663.48 2,198,653.92 549,663.48 2,198,653.92 824,495.22 3,363,940.50 7,344,603.42 45,887,006.64 9,177,401.33 55,064,407.96

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	AMT. 10,529,712.00 526,485.60 210,594.24 842,376.96 210,594.24 842,376.96 315,891.36 1,288,836.75 2,813,960.23 17,580,828.34 3,516,165.67 21,096,994.01	ROUTE 11 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	AMT. 13,702,336.00 685,116.80 274,046.72 1,096,186.88 274,046.72 1,096,186.88 411,070.08 1,677,165.93 3,661,812.27 22,877,968.28 4,575,593.66 27,453,561.93
4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010 ROUTE 10 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right–of–Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	AMT. 10,567,216.00 528,360.80 211,344.32 845,377.28 211,344.32 845,377.28 317,016.48 1,293,427.24 2,823,982.80 17,643,446.52 3,528,689.30 21,172,135.83	4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010 ROUTE 12 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	AMT. 10,286,432.00 514,321.60 205,728.64 822,914.56 205,728.64 822,914.56 308,592.96 1,259,059.28 2,748,946.09 17,174,638.32 3,434,927.66 20,609,565.99

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

5% 1995 thru 2000 6% 2001 thru 2010

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	0.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	0.00
D. Testing and Operations Mobilization (2% of A)	0.00
E. Owners Insurance (8% of A)	0.00
F. Mitigation (2% of A)	0.00
G. Right-of-Way	
H. Force Account (8% of A)	0.00
I. Employee Training (3% of A)	0.00
J. Construction Change Orders (12% of A & F, 2% of B)	0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00
L. Subtotal (A thru K)	0.00
M. Project Reserve (20% of L)	0.00
N. Total Cost in 1992 Dollars (L + M)	0.00
O. Annual Inflation:	
4% 1992 thru 1995	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

	Units	Unit Costs	Quantity	Cost	#2 Quantity	Cost	# Quantity	3 Cost	#4 Quantity	4 Cost	Quantity #	Cost
Stabilize Track for Electrification Single Track	T.F.	6	4,008,576	24,051,456	422,400	2,534,400	403,392	2,420,352	161,568	969,408	1,325,280	7,951,680
Overhead Utility Relocations	L.S.	16,000	48	768,000	37	592,000	16	256,000	12	192,000	49	784,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right – of – Way Acquisition	Ac.	800,000	0	. 0	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0	0	0 0 0	0	0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	105	10,500,000	78	7,800,000	33	3,300,000	25	2,500,000	101	10,100,000

	Units	Unit Costs	Quantity	#1 <u>Cost</u>	# Quantity	2 Cost	# Quantity	3 Cost	#4 Quantity	Cost	Quantity	#5 Cost
Communications SCADA (Superviso Control)	Pry R.F.	30	2,082,970	62,489,100	299,904	8,997,120	246,048	7,381,440	125,136	3,754,080	702,768	21,083,040
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approach												
Vertical Clearance Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000	0	0	0	0	0	0	0	0	0	0
Track Lowering Single Track (12"Av)	T.F.	40	18,000	720,000	6,000	240,000	2,000	80,000	1,000	40,000	44,000	1,760,000
Tunnel Modificatio Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000	0	0	0 0	0	7,940 770	3,970,000 2,310,000	7,000 0	3,500,000	0	0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	3,406,654 0	187,365,970 0	442,360 0	24,329,800 0	365,768 0	20,117,240 0	156,280 0	8,595,400 0	1,246,080 504,892	68,534,400 3,534,244
TOTAL COST				285,894,526		44,493,320		39,835,032		19,550,888		113,747,364

	Units	Unit Costs	#6 Quantity	Cost	#7 Quantity	Cost	#a	8 Cost	#9 Quantity	Cost	Quantity	#10 <u>Cost</u>
Stabilize Track for Electrification Single Track	T.F.	6	240,240	1,441,440	373,824	2,242,944	236,544	1,419,264	120,912	725,472	67,056	402,336
Overhead Utility Relocations	L.S.	16,000	13	208,000	19	304,000	30	480,000	9	144,000	21	336,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right – of – Way Acquisition	Ac.	800,000	0	0	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Change Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	27	2,700,000	39	3,900,000	61	6,100,000	20	2,000,000	42	4,200,000

			#6		#7		#8	3	#9)	#	10
	Units	Unit Costs	Quantity #0	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
	Offics	OIII COSIS										
Communications SCADA (Supervisor				0.505.000	100.010	5,607,360	206,448	6,193,440	67,056	2,011,680	63,360	1,900,800
Control)	R.F.	30	119,856	3,595,680	186,912	5,007,500	200,440	0,100,110	0.,000	_,		
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge												
Clearance Improve												
(Including Approache	es)											
Vertical Clearance		600,000	0	0	0	0	0	0	0	0	. 0	0
Improvements	L.S.	700,000	· ·	Ü								
	L.S. L.S.	1,000,000										
	L.S.	1,000,000										
Track Lowering										400,000	1 000	40,000
Single Track (12"Av)	T.F.	40	14,000	560,000	7,000	280,000	7,000	280,000	4,000	160,000	1,000	40,000
olligie Hack (12 /11)												
Tunnel Modification	ns			_	•	0	0	0	0	0	0	0
Track Lowering	T.F.	500	0	0	0	0		0		0		0
Structural Mod.	R.F.	3,000	0	0	0	U	O	O	•	_		
Signals (Wayside)			012.940	11,761,200	373,824	20,560,320	236,554	13,010,470	99,792	5,488,560	67,056	3,688,080
Phase Sel & Tru-II	T.F.	55	213,840 0	0	0	0		0		0	0	0
Cab Signals	T.F.	7	U	O	Ŭ	·						
												40.507.046
TOTAL COST				20,266,320		32,894,624		27,483,174		10,529,712		10,567,216
TOTAL COST				,								

	Units	Unit Costs	# Quantity	11 Cost	Quantity	#12 <u>Cost</u>	#13 Quantity Cost		TOTAL QUANTITY	TOTAL COST
Stabilize Track for Electrification Single Track	T.F.	6	170,016	1,020,096	139,392	836,352		0	7,669,200	46,015,200
Overhead Utility Relocations	L.S.	16,000	11	176,000	1	16,000		0	266	4,256,000
Underground Utility Relocations	L.F.	0	0	0	0	0		0	0	0
Right – of – Way Acquisition	Ac.	800,000	0	0	0	0		0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0		0	0	0
Site Demolition	C.Y.	80	0	0	0	0		0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0		0	0	0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000	0	0	0	0		0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0		0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	23	2,300,000	4	400,000		0	558	55,800,000

	Units	Unit Costs	Quantity	#11 Cost	Quantity	#12 Cost	#13 Quantity Cost	TOTAL QUANT	TY TOTAL COST
Communications SCADA (Superviso Control)	ry R.F.	30	86,592	2,597,760	64,944	1,948,320		0 4,251,994	127,559,820
Control Center	L.S.	10,000,000	0	0	0	0		0 0	0
Overhead Bridge Clearance Improve (Including Approach									
Vertical Clearance Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000	0	. 0	0	0		0 0	0
Track Lowering Single Track (12"Av)	T.F.	40	0	0	0	0		0 104,000	4,160,000
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000	0	0	0	0		0 14,940 770	7,470,000 2,310,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	138,336 0	7,608,480 0	128,832 0	7,085,760 0		0 6,875,376 0 504,892	378,145,680 3,534,244
TOTAL COST				13,702,336		10,286,432		19,421,996	629,250,944

	Units	Unit Costs	Quantity #	Cost	#2 Quantity	Cost	Quantity #	Cost	#4 Quantity	Cost	# Quantity	5 Cost
Stabilize Track for Electrification Single Track	T.F.	6	4,008,576	24,051,456	422,400	2,534,400	434,016	2,604,096	327,360	1,964,160	1,352,736	8,116,416
Overhead Utility Relocations	L.S.	16,000	48	768,000	37	592,000	16	256,000	16	256,000	49	784,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right – of – Way Acquisition	Ac.	800,000	0	0	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
<u>Electric</u> <u>Locomotives</u> Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0	0	0 0 0	0	0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	105	10,500,000	78	7,800,000	33	3,300,000	34	3,400,000	101	10,100,000

	Units	Unit Costs	Quantity	#1 Cost	#2 Quantity	2 Cost	Quantity #	Cost	#4 Quantity	4 Cost	Quantity	#5 Cost
Communications SCADA (Supervisor Control)	ry R.F.	30	2,082,970	62,489,100	299,904	8,997,120	250,800	7,524,000	184,272	5,528,160	705,936	21,178,080
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve												
(Including Approache Vertical Clearance	es)											
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000	0	0	0	0	0	0	0	0	0	0
Track Lowering Single Track (12"Av)	T.F.	40	18,000	720,000	6,000	240,000	2,000	80,000	1,000	40,000	44,000	1,760,000
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000	0	0	0	0	7,940 770	3,970,000 2,310,000	7,000 0	3,500,000 0	0	0 0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	3,406,654 0	187,365,970 0	442,360 0	24,329,800	426,912 0	23,480,160 0	326,192 0	17,940,560 0	1,300,992 504,892	71,554,560 3,534,244
TOTAL COST				285,894,526		44,493,320		43,524,256		32,628,880		117,027,300

	Units	Unit Costs	#6 Quantity	Cost	#7 Quantity	Cost	#8 Quantity	Cost	Quantity #9	Cost	# Quantity	10 Cost
Stabilize Track for Electrification												
Single Track	T.F.	6	667,392	4,004,352	758,736	4,552,416	236,544	1,419,264	555,456	3,332,736	67,056	402,336
Overhead Utility Relocations	L.S.	16,000	23	368,000	26	416,000	30	480,000	34	544,000	21	336,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right-of-Way Acquisition	Ac.	800,000	0	0	0	0	0	0	0	0	. 0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0	- O	0
Site Demolition	C.Y.	. 80	0	0	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Chang Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
Electric Locomotives	L.S.		0	0	0	0		0		0	0	0
Passenger Freight	EA EA	5,250,000 4,000,000	0	0	0	0		0	0	0	0	0
Crossing Warning Systems	EA	100,000	51	5,100,000	54	5,400,000	61	6,100,000	71	7,100,000	42	4,200,000

			#6		#	7	#	8	#9)	#	£10
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Superviso		* ;										
Control)	R.F.	30	313,104	9,393,120	326,304	9,789,120	206,448	6,193,440	278,784	8,363,520	63,360	1,900,800
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approach												
Vertical Clearance Improvements	L.S.	600,000	0	0	0	0	0	0	0	0	0	0
	L.S. L.S.	700,000 1,000,000										
Track Lowering Single Track (12"Av)	T.F.	40	16,000	640,000	15,000	600,000	7,000	280,000	13,000	520,000	1,000	40,000
Tunnel Modification	ns											
Track Lowering Structural Mod.	T.F. R.F.	500 3,000	0	0	0	0	0	0	0	0	0	0
		0,000	v	· ·				·		Ü		Ü
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	571,190 0	31,415,450 0	712,272 0	39,174,960 0	236,554 0	13,010,470 0	534,346 70,752	29,389,030 495,264	67,056 0	3,688,080 0
TOTAL COST				50,920,922		59,932,496		27,483,174		49,744,550		10,567,216

	Units	Unit Costs	Quantity	#11 Cost	Quantity	² 12 Cost	Quantity	#13 <u>Cost</u>	TOTAL QUANTITY	TOTAL COST
Stabilize Track for Electrification Single Track	T.F.	6	2,662,704	15,976,224	1,994,256	11,965,536	2,248,224	13,489,344	15,735,456	94,412,736
Overhead Utility Relocations	L.S.	16,000	47	752,000	39	624,000	36	576,000	422	6,752,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0
Right-of-Way Acquisition	Ac.	800,000	0	. 0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0
Crossing Warning Systems	EA	100,000	99	9,900,000	85	8,500,000	81	8,100,000	895	89,500,000

			#	11	;	#12	#	¥13		
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	TOTAL QUANTI	TY TOTAL COST
Communications SCADA (Superviso Control)	ry R.F.	30	1,482,096	44,462,880	928,752	27,862,560	990,538	29,716,140	8,113,268	243,398,040
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approache										
Vertical Clearance Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000	0	0	0	0	0	0	0	0
Track Lowering Single Track (12"Av)	T.F.	40	19,000	760,000	21,000	840,000	16,000	640,000	179,000	7,160,000
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000	0	0	0	0	0	0	14,940 770	7,470,000 2,310,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	2,324,784 0	127,863,120 0	1,862,266 0	102,424,630	1,862,792 0	102,453,560 0	14,074,370 575,644	774,090,350 4,029,508
TOTAL COST				199,714,224		152,216,726		154,975,044	38,694,765	1,229,122,634

	Units	Unit Costs	#1 Quantity	Cost	#2 Quantity	Cost	#3 Quantity	Cost	#4 Quantity	Cost	# Quantity	5 Cost
Stabilize Track for	55	<u> </u>								- Marine and Art Art		
Electrification Single Track	T.F.	6	27,456	164,736	3,168	19,008	2,112	12,672	67,056	402,336	33,792	202,752
Overhead Utility Relocations	L.S.	16,000		0		0		0		0	3	48,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees,												
Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives	L.S.			0		0		0		0		0
Passenger Freight	EA EA	5,250,000 4,000,000		0		0		0		0		0
Crossing Warning Systems	EA	100,000		0		0		0		0	7	700,000

	Units	Unit Costs	#1 Quantity	Cost	#2 Quantity	Cost	#3 Quantity	Cost	#4 Quantity	Cost	#5 Quantity	Cost
Communications SCADA (Superviso Control)	ry R.F.	30	3,168	95,040	1,584	47,520	1,056	31,680	61,248	1,837,440	13,200	396,000
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach												
Vertical Clearance Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0		0		.0		0		0
Tunnel Modification	ns	*										
Track Lowering Structural Mod.	T.F. R.F.	500 3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	54,912	3,020,160 0	6,232	342,760 0	2,112	116,160 0	67,056	3,688,080 0	28,512	1,568,160 0
TOTAL COST				3,279,936		409,288		160,512		5,927,856		2,914,912

	Units	Unit Costs	#6 Quantity	Cost	#7 Quantity	Cost	Quantity	#8	Cost	C	#9 Quantity	Cost	Quantity	#10 Cost
Stabilize Track for Electrification Single Track	T.F.	6	130,944	785,664	6,336	38,016				0	151,536	909,216	12,672	76,032
Overhead Utility Relocations	L.S.	16,000	13	208,000	1	16,000				0	20	320,000	0	0
Underground Utility Relocations	L.F.	0		0		0				0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0				0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0				0		0		0
Site Demolition	C.Y.	80		0		0				0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0				0		0		0
Locomotive Change Facilities	E.S.	4,000,000 / 6,000,000		0		0				0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0				0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	27	2,700,000	3	300,000				0	41	4,100,000	1	100,000

	Units	Unit Costs	#6 Quantity	Cost	#7 Quantity	Cost	Quantity	#8 Cost		#9 Quantity	Cost	#1 Quantity	10 Cost
Communications SCADA (Supervisor Control)	ry R.F.	30	90,816	2,724,480	6,336	190,080			0	122,496	3,674,880	6,336	190,080
Control Center	L.S.	10,000,000	00,010	0	0,000	0			0	722,400	0	0,000	0
Overhead Bridge Clearance Improve (Including Approache													
Vertical Clearance Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0			0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0		0			0	6,000	240,000		0
Tunnel Modification	1 Continue												
Track Lowering Structural Mod.	T.F. R.F.	500 3,000		0		0			0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	130,944	7,201,920 0	6,336	348,480 0			0	146,256	8,044,080 0	12,672	696,9 60 0
TOTAL COST			a	13,620,064		892,576			0		17,288,176		1,063,072

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	Units	Unit Costs	#11 Quantity Cos	ţ	Quantity	#12 Cost	# Quantity	Cost	# Quantity	14 Cost	Quantity	#15 Cost
Stabilize Track for Electrification Single Track	T.F.	6		0	122,496	734,976	161,568	969,408	77,088	462,528	191,136	1,146,816
Overhead Utility Relocations	L.S.	16,000		0	4	64,000	12	192,000	3	48,000	9	144,000
Underground Utility Relocations	L.F.	0		0		0		0		0		. 0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	E L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0	8	800,000	25	2,500,000	6	600,000	18	1,800,000

				#11		#	12	#	13	#	14	#	15
	Units	Unit Costs	Quantity	Cost	9	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Superviso Control)	ry R.F.	30			0	48,048	1,441,440	125,136	3,754,080	38,544	1,156,320	153,120	4,593,600
Control Center	L.S.	10,000,000			0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach													
Vertical Clearance Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000			0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40			0		0	1,000	40,000		0	2,000	80,000
Tunnel Modification	ns												
Track Lowering Structural Mod.	T.F. R.F.	500 3,000			0		0	7,000	3,500,000 0		0	7,940 770	3,970,000 2,310,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7			0	96,096	5,285,280 0	156,280	8,595,400 0	70,088	3,854,840 0	186,912	10,280,160
TOTAL COST		•			0		8,325,696		19,550,888		6,121,688		24,324,576

	11	Hait Casta	#			#17		18		£19		#20
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6		(54,912	329,472	13,728	82,368	117,216	703,296	157,344	944,064
Overhead Utility Relocations	L.S.	16,000		()	0		0	1	16,000	5	80,000
Underground Utility Relocations	L.F.	0)	0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		()	0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20			a 7 ₀	0		0		0		0
		0.20										
Site Demolition	C.Y.	80		()	0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		()	0		0		0		0
Locomotive Change Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000		()	0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000))	0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000)	0		0	2	200,000	11	1,100,000

			#1	6		#17	#1	18	#	¹ 19	#	20
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Supervisor	ry											
Control)	R.F.	30			16,896	506,880	6,864	205,920	40,128	1,203,840	68,112	2,043,360
Control Center	L.S.	10,000,000			0	0		0		0		0
Overhead Bridge Clearance Improve (Including Approache												
Vertical Clearance Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000			0	0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40			0 4,000	160,000	4,000	160,000		0		0
Tunnel Modification	ns											
Track Lowering Structural Mod.	T.F. R.F.	500 3,000))	0		0		0		0
Signals (Wayside)												
Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7			33,792	1,858,560 0	13,728	755,040 0	80,256	4,414,080 0	141,504	7,782,720 0
TOTAL COST				,)	2,854,912		1,203,328		6,537,216		11,950,144

	Units	Unit Costs	#2 Quantity	21 Cost	# Quantity	22 Cost	#2 Quantity	23 Cost	#: Quantity	24 Cost	quantity #	#25 Cost
Stabilize Track for Electrification Single Track	T.F.	6	91,344	548,064	70,752	424,512	226,512	1,359,072	334,224	2,005,344	68,112	408,672
Overhead Utility Relocations	L.S.	16,000	8	128,000	7	112,000	3	48,000	14	224,000	8	128,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0		0 0 0		0 0 0		0 0		0 0 0
Crossing Warning Systems	EA	100,000	17	1,700,000	14	1,400,000	7	700,000	28	2,800,000	16	1,600,000

			#:	21	#	22	#	23	#	24	#	25
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Superviso Control)	ry R.F.	30	41,712	1,251,360	32,736	982,080	154,176	4,625,280	217,008	6,510,240	29,568	887,040
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach												
Vertical Clearance Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40	4,000	160,000	2,000	80,000	10,000	400,000	15,000	600,000	2,000	80,000
Tunnel Modification	ns											
Track Lowering Structural Mod.	T.F. R.F.	500 3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	86,064	4,733,520 0	70,752 70,752	3,891,360 495,264	226,512 226,512	12,458,160 1,585,584	334,224 207,628	18,382,320 1,453,396	68,112	3,746,160 0
TOTAL COST				8,520,944		7,385,216		21,176,096		31,975,300		6,849,872

	Units	Unit Costs	#2 Quantity	6 Cost	Quantity	#27 Cost	# Quantity	28 Cost	#2 Quantity	29 Cost	Quantity	#30 Cost
Stabilize Track for Electrification Single Track	T.F.	6	57,024	342,144	316,800	1,900,800	284,064	1,704,384	15,840	95,040	15,840	95,040
Overhead Utility			37,024	042,144	010,000	1,300,000	204,004	1,704,304	13,040	33,040	15,040	93,040
Relocations	L.S.	16,000	5	80,000	14	224,000	0	0	0	0	0	0
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives	L.S.			0		0		0		0		0
Passenger Freight	EA EA	5,250,000 4,000,000		0		0		0		0		0
Crossing Warning Systems	EA	100,000	11	1,100,000	28	2,800,000		0		0	1	100,000

			#2	26	#	27	#	28	#	‡ 29	#3	30
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Superviso Control)	ry R.F.	30	28,512	855,360	158,400	4,752,000	128,832	3,864,960	7,920	237,600	5,280	158,400
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve												
(Including Approach Vertical Clearance	es)											
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0	7,000	280,000		0		0		0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 ° 3,000		0		0		0 0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	57,024	3,136,320 0	316,800	17,424,000 0	257,664	14,171,520 0		871,200 0	10,560	580,800 0
TOTAL COST				5,513,824		27,380,800		19,740,864		1,203,840		934,240

	Units	Unit Costs	#3 ⁻ Quantity	1 Cost	# Quantity	32 Cost	# Quantity	#33 Cost	# Quantity	34 Cost	# Quantity	35 Cost
Stabilize Track for												
Electrification Single Track	T.F.	6	131,472	788,832	72,864	437,184	110,880	665,280	65,472	392,832	191,136	1,146,816
Overhead Utility Relocations	L.S.	16,000	2	32,000	2	32,000	3	48,000	3	48,000	12	192,000
Underground Utility						_				0		0
Relocations	L.F.	0		0		0		0		0		0
Right—of—Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	. 80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives	L.S.			0		0		0		0		0
Passenger	EA	5,250,000		ō		0		0		0		0
Freight	EA	4,000,000		0		0		0		0		0
Crossing Warning Systems	EA	100,000	5	500,000	5	500,000	7	700,000	6	600,000	25	2,500,000

			#3	31	#	[‡] 32	#	33	#	34	#	35
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Superviso Control)	ry R.F.	30	49,632	1,488,960	33,792	1,013,760	61,776	1,853,280	38,016	1,140,480	105,072	3,152,160
Control Center	L.S.	10,000,000		0	,	0		0		0	,	0
Control Center	L.O.	10,000,000		O		Ü		v		Ü		· ·
Overhead Bridge Clearance Improve (Including Approach												
Vertical Clearance												·
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0		0	*	0
Track Lowering Single Track (12"Av)	T.F.	40		0		0		0	2,000	80,000	4,000	160,000
Tunnel Modification	ns											
Track Lowering	T.F.	500		0		0		0		0		0
Structural Mod.	R.F.	3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	78,672	4,326,960 0	67,582	3,717,010 0	84,480	4,646,400 0	54,912	3,020,160 0	170,016	9,350,880
TOTAL COST				7,136,752		5,699,954		7,912,960		5,281,472		16,501,856

			#3			# 37		38		39		440
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	3,168	19,008	34,848	209,088	92,928	557,568	49,632	297,792	159,456	956,736
Overhead Utility Relocations	L.S.	16,000		0		0	3	48,000	5	80,000	5	80,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000				0		0		. 0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	1	100,000		0	6	600,000	11	1,100,000	10	1,000,000

			#30	6	#:	37	#:	38	#	±39	#	40
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Superviso												
Control)	R.F.	30	3,168	95,040	10,560	316,800	30,624	918,720	36,432	1,092,960	70,224	2,106,720
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach												
Vertical Clearance												
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0	10,000	400,000		0		0	2,000	80,000
Tunnel Modification	ns											
Track Lowering Structural Mod.	T.F. R.F.	500 3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	3,168	174,240 0	29,568	1,626,240 0	61,248	3,368,640 0	49,632	2,729,760 0	106,656	5,866,080 0
TOTAL COST				388,288		2,552,128		5,492,928		5,300,512		10,089,536

			#4	1	#	42	#	43	#	44		#45
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	29,040	174,240	304,128	1,824,768	15,840	95,040	671,616	4,029,696	944,064	5,664,384
Overhead Utility Relocations	L.S.	16,000	2	32,000	5	80,000		0	10	160,000	11	176,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0		0 0 0
Crossing Warning Systems	EA	100,000	5	500,000	10	1,000,000		0	21	2,100,000	23	2,300,000

			#4	41	#	42	#4	3	#	44	#	45
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Superviso Control)	ry R.F.	30	18,480	554,400	105,072	3,152,160	5,280	158,400	381,216	11,436,480	654,720	19,641,600
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach									×			
Vertical Clearance Improvements	L.S.	600,000		0		0		0		0		0
*	L.S.	700,000 1,000,000		·								
Track Lowering												
Single Track (12"Av)	T.F.	40	0	0	1,000	40,000		0	4,000	160,000	2,000	80,000
Tunnel Modification	ns	•										
Track Lowering	T.F.	500		0		0		0		0		0
Structural Mod.	R.F.	3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	29,040	1,597,200 0	172,128	9,467,040 0	10,560	580,800 0	645,216	35,486,880 0	891,264	49,019,520 0
TOTAL COST				2,857,840		15,563,968		834,240		53,373,056		76,881,504

					#4	7		#48	0	#4	10	4	[‡] 50
	Units	Unit Costs	#40 Quantity	Cost	Quantity #4	Cost	Qu	uantity #40	Cost	Quantity	Cost	Quantity "	Cost
Stabilize Track for Electrification Single Track	T.F.	6	1,056	6,336	0		0	29,040	174,240	8,448	50,688	528	3,168
Overhead Utility Relocations	L.S.	16,000	0	0			0	5	80,000		0		0
Underground Utility Relocations	L.F.	0		0			0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0			0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0			0		0		0		0
Site Demolition	C.Y.	80		0			0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0			0		0		0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0			0		0		0		0
<u>Electric</u> <u>Locomotives</u> Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0			0 0 0		0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0			0	11	1,100,000		0		0

		Units	Unit Costs	#4 Quantity	16 Cost	#47 Quantity Cost		#4 Quantity	l8 Cost	#4 Quantity	19 Cost	# Quantity	50 Cost
Commun SCADA (Control)	(Supervisor		30	1,056	31,680		0	29,040	871,200	8,448	253,440	528	15,840
Control C	Center	L.S.	10,000,000		0		0		0		0		0
Clearanc	d Bridge ce Improver g Approache												
Vertical C Improvem	learance	L.S. L.S. L.S.	600,000 700,000 1,000,000		. 0		0		0		0		0
Track Lo Single Tra	wering ack (12"Av)	T.F.	40		0		0		0		0		0
Tunnel M Track Low Structural		T.F. R.F.	500 3,000		0		0		0		0		0
	(Wayside) & Tru- als	T.F. T.F.	55 7	1,056	58,080 0		0	29,040	1,597,200 0	8,448	464,640 0	528	29,040 0
TOTAL C	соѕт				96,096		0		3,822,640		768,768		48,048

	Units	Unit Costs	#5 Quantity	1 Cost	Quantity	#52 <u>Cost</u>	#: Quantity	53 <u>Cost</u>	Quantity	#54 <u>Cost</u>	Quantity	#55 Cost
Stabilize Track for Electrification Single Track	T.F.	6	528	3,168	32,736	196,416	42,240	253,440	33,792	202,752	15,840	95,040
Overhead Utility Relocations	L.S.	16,000		0	3	48,000	1	16,000	3	48,000	0	0
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4 ,000,000		0 0 0		0 0 0		0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0	7	700,000	2	200,000	7	700,000		0

			#5	51	#	52	#!	53	#	54	#	55
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Superviso	ry											
Control)	R.F.	30	528	15,840	16,368	491,040	18,480	554,400	14,256	427,680	5,280	158,400
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance												
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0		0	·	0
Track Lowering Single Track (12"Av)	T.F.	40		0		0	2,000	80,000	2,000	80,000		0
Tunnel Modification												
Track Lowering Structural Mod.	T.F. R.F.	500 3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	528	29,040 0	32,746	1,801,030 0	36,960	2,032,800	28,512	1,568,160 0	5,280	290,400 0
TOTAL COST				48,048		3,236,486		3,136,640		3,026,592		543,840

		2	#	56		# 57		¹ 58	#5			#60
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	136,224	817,344	158,400	950,400	216,480	1,298,880	394,944	2,369,664	208,032	1,248,192
Overhead Utility Relocations	L.S.	16,000	1	16,000	0	0	0	0	5	80,000		0
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	. 80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	3	300,000	. 1	100,000		0	10	1,000,000		0

			#5	56	#	57	#	58	#	59	#	60
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Supervisor											,	
Control)	R.F.	30	61,776	1,853,280	76,560	2,296,800	102,960	3,088,800	194,832	5,844,960	38,016	1,140,480
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance												
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0	2,000	80,000	4,000	160,000		0		0
Tunnel Modification	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NA									_		
Track Lowering Structural Mod.	T.F. R.F.	3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	125,664	6,911,520 0	153,120	8,421,600 0	205,920	11,325,600 0	389,664	21,431,520 0	76,032	4,181,760 0
TOTAL COST				9,898,144		11,848,800		15,873,280		30,726,144		6,570,432

	Units	Unit Costs	#6 Quantity	Cost	# Quantity	62 Cost	Quantity	#63 Cost	#64 Quantity	Cost Qua	#65 ntity Cost	
Stabilize Track for Electrification Single Track	T.F.	6	107,712	646,272	41,184	247,104	50,160	300,960		0		0
Overhead Utility Relocations	L.S.	16,000		0		0		0		0		0
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right-of-Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0		0	1	100,000		0		0

			#6	61	#	62	#6			#64		\$ 65	
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Communications SCADA (Supervisor	rv												
Control)	R.F.	30	27,466	823,980	30,624	918,720	41,184	1,235,520			0		0
Control Center	L.S.	10,000,000		0		0		0			0		0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance													
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0			0		0
Track Lowering Single Track (12"Av)	T.F.	40		0	1,000	40,000		0			0		0
Tunnel Modification						•					0		0
Track Lowering Structural Mod.	T.F. R.F.	500 3,000		0		0		0			0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	54,912	3,020,160 0	41,184	2,265,120 0	50,160	2,758,800 0			0		0
TOTAL COST				4,490,412		3,470,944		4,395,280			0		0

				66	#67			#68	ш.	69		#70
	Units	Unit Costs	Quantity	Cost		Cost	Quantity	Cost	Quantity #	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	528	3,168		0	67,056	402,336	203,808	1,222,848	27,456	164,736
Overhead Utility Relocations	L.S.	16,000		0		0	21	336,000	27	432,000	3	48,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right-of-Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0		0	42	4,200,000	54	5,400,000	6	600,000

			#66		#6			#68			69		70 Cost
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	_	Quantity	Cost	Quantity	Cost	Quantity	Cost
Communications SCADA (Supervisor												10.500	500.000
Control)	R.F.	30	528	15,840			0	63,360	1,900,800	190,080	5,702,400	19,536	586,080
Control Center	L.S.	10,000,000		0			0		0		0		0
Overhead Bridge Clearance Improve	ments												
(Including Approache Vertical Clearance	es)												
Improvements	L.S. L.S.	600,000 700,000		0			0		0		0		0
	L.S.	1,000,000											
Track Lowering	T.F.	40		0			0	1,000	40,000	7,000	280,000		0
Single Track (12"Av)		. 40		Ü			U	1,000	40,000	7,000	200,000		· ·
Tunnel Modification Track Lowering	T.F.	500		0			0		0		0		0
Structural Mod.	R.F.	3,000		0			0		0		0		0
Signals (Wayside)	T. F.		500	00.040			0	67.056	3 699 090	202 808	11 200 440	27,456	1,510,080
Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	528	29,040 0			0	67,056	3,688,080 0	203,808	11,209,440 0	21,430	0
									40 507 045		04.046.600		0.000.000
TOTAL COST				48,048			0		10,567,216		24,246,688		2,908,896

	Units	Unit Costs	#7 Quantity	1 Cost	Quantity	72 Cost	TOTAL QUANTI	TY TOTAL COST
Stabilize Track for Electrification Single Track	T.F.	6	14,256	85,536	191,136	1,146,816	7,669,200	46,015,200
Overhead Utility Relocations	L.S.	16,000	1	16,000	3	48,000	266	4,256,000
Underground Utility Relocations	L.F.	0		0		0	0	0
Right—of—Way Acquisition	Ac.	800,000		0		0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0	0	0
Site Demolition	C.Y.	80		0		0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0	o	o
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0		0 0 0	0 0 0	, 0 0 0
Crossing Warning Systems	EA	100,000	2	200,000	6	600,000	558	55,800,000

	Units	Unit Costs	#7 ⁻ Quantity	1 Cost	#7 Quantity	Cost	TOTAL QUANTITY	TOTAL COST
Communications SCADA (Supervisor Control) Control Center	Y R.F. L.S.	30 10,000,000	4,224	126,720	95,568	2,867,040	4,251,994 0	127,559,820 0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance Improvements	ments es) L.S. L.S.	600,000 700,000 1,000,000		. 0		0	0	0
Track Lowering Single Track (12"Av)	T.F.	40		0	3,000	120,000	104,000	4,160,000
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		0		0	14,940 770	7,470,000 2,310,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	14,256	784,080 (10,512,480 0	6,875,376 504,892	378,145,680 3,534,244
TOTAL COST				1,212,336	6	15,294,336	19,421,996	629,250,944

APPENDIX 7-3

RPT/SCRE - 01

TOTAL COSTS* RELATED TO ELECTRIFICATION (No Segments Duplicated) 25Kv Desirable

	COMMUTER	ONLY	COMMUTER &	FREIGHT	
ELEMENTS	CONSTRUCTION COST (A)	TOTAL COST (N)	CONSTRUCTION COST (A)	TOTAL COST (N)	
CIVIL, STRUCTURAL & SIGNAL COSTS	385,754,212.00	772,884,795.03	675,580,944.00	1,353,572,360.81	
SYSWIDE TRACTION ELECT. COSTS	371,306,000.00	758,912,819.81	888,988,000.00	1,831,835,909.18	
SHOPS & ANCILLARY FACILITIES	0.00	0.00	40,000,000.00	80,142,720.00	
LOCOMOTIVE CHANGE FACILITIES	0.00	0.00	34,000,000.00	68,121,312.00	
CONTROL CENTER	5,000,000.00	10,017,840.00	10,000,000.00	20,035,680.00	
TOTAL	762,060,212.00	1,541,815,454.84	1,648,568,944.00	3,353,707,981.99	

^{*(}Locomotives not included)

5% 1995 thru 2000 6% 2001 thru 2010

SYSTEM-WIDE TRACTION ELECTRIFICATION COSTS (NO SEGMENTS DUPLICATED) 25Kv Desirable

PROJECT ADD-ONS	COMMUTER ONLY AMT.	COMMUTER & FREIGHT AMT.
A. Construction	371,306,000.00	888,988,000.00
B. Locomotives	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,
C. Contractors Mobilization/Demobilization (5% of A)	18,565,300.00	44,449,400.00
D. Testing and Operations Mobilization (2% of A)	7,426,120.00	17,779,760.00
E. Owners Insurance (8% of A)	29,704,480.00	71,119,040.00
F. Mitigation (2% of A)	7,426,120.00	17,779,760.00
G. Right-of-Way	12,480,000.00	42,240,000.00
H. Force Account (8% of A)	29,704,480.00	71,119,040.00
I. Employee Training (3% of A)	11,139,180.00	26,669,640.00
J. Construction Change Orders (12% of A & F, 2% of B)	45,447,854.40	108,812,131.20
K. Project Services (25% of A & F, 1% of B, 10% of J)	99,227,815.44	237,573,153.12
L. Subtotal (A thru K)	632,427,349.84	1,526,529,924.32
M. Project Reserve (20% of L)	126,485,469.97	305,305,984.86
N. Total Cost in 1992 Dollars (L + M)	758,912,819.81	1,831,835,909.18
O. Annual Inflation:		
4% 1992 thru 1995		

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION
25Kv Desirable
*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER ONLY

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	DUPLICATED CONSTRUCTION COSTS (A)	DUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	66,546,458.00	144,850,353.76
2.	Baldwin Park Commuter	57	57	93,494,320.00	189,626,227.73
3.	Moorpark Commuter	48	46	112,205,256.00	227,114,860.35
4.	Santa Clarita Commuter	35	24	86,664,880.00	174,790,980.29
5.	Lossan Corridor	134	133	251,709,820.00	508,925,740.64
6.	Riverside Via Ontario	59	24	110,279,602.00	223,256,681.62
7.	Riverside – Laupt via Fullerton	62	35	127,988,720.00	258,738,103.75
8.	Hemet - Riverside	39	39	54,627,174.00	110,601,257.76
9.	San Bernardino - Irvine	53	13	107,297,534.00	217,281,905.60
10.	Redlands Commuter	12	12	18,997,216.00	39,214,214.07
11.	Southern Pacific Routes Ports to Yuma	282	16	318,444,360.00	638,624,929.48
12.	Santa Fe Ports to Barstow	176	0	135,653,390.00	277,550,791.30
13.	Union Pacific Ports to Yermo	187	0	119,334,448.00	243,702,681.31

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION 25Kv Desirable

*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER & FREIGHT

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	DUPLICATED CONSTRUCTION COSTS (A)	DUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	746,725,526.00	1,518,003,368.68
2.	Baldwin Park Commuter	57	57	93,494,320.00	189,626,227.73
3.	Moorpark Commuter	48	46	112,205,256.00	227,114,860.35
4.	Santa Clarita Commuter	35	24	86,664,880.00	174,790,980.29
5.	Lossan Corridor	134	133	280,102,300.00	569,268,005.01
6.	Riverside Via Ontario	59	24	126,083,922.00	256,073,711.43
7.	Riverside – Laupt via Fullerton	62	35	143,801,496.00	291,572,075.74
8.	Hemet - Riverside	39	39	54,627,174.00	110,601,257.76
9.	San Bernardino - Irvine	53	13	127,935,550.00	259,783,574.04
10.	Redlands Commuter	12	12	18,997,216.00	39,214,214.07
11.	Southern Pacific Routes Ports to Yuma	282	16	512,363,224.00	1,042,682,559.98
12.	Santa Fe Ports to Barstow	176	0	370,955,726.00	752,451,022.03
13.	Union Pacific Ports to Yermo	187	0	396,729,044.00	805,241,617.23

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION
25Kv Desirable
*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER ONLY (NO SEGMENTS DUPLICATED)

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	UNDUPLICATED CONSTRUCTION COSTS (A)	UNDUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	29,143,458.00	58,390,899.86
2.	Baldwin Park Commuter	57	57	44,533,320.00	89,225,534.89
3.	Moorpark Commuter	48	46	60,245,032.00	120,705,018.27
4.	Santa Clarita Commuter	35	24	37,950,888.00	76,037,184.77
5.	Lossan Corridor	134	133	116,638,884.00	233,693,935.54
6.	Riverside Via Ontario	59	24	20,587,920.00	41,249,297.70
7.	Riverside – Laupt via Fullerton	62	35	27,449,648.00	54,997,236.34
8.	Hemet - Riverside	39	39	27,723,174.00	55,545,264.28
9.	San Bernardino - Irvine	53	13	10,674,672.00	21,387,431.23
10.	Redlands Commuter	12	12	10,647,216.00	21,332,421.27
11.	Southern Pacific Routes Ports to Yuma	282	16	0.00	0.00
12.	Santa Fe Ports to Barstow	176	0	160,000.00	320,570.88
13.	Union Pacific Ports to Yermo	187	0	0.00	0.00
TOTAL:				385,754,212.00	772,884,795.03

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION 25Kv Desirable

*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not include

COMMUTER & FREIGHT (NO SEGMENTS DUPLICATED)

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	UNDUPLICATED CONSTRUCTION COSTS (A)	UNDUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	288,034,526.00	577,096,759.19
2.	Baldwin Park Commuter	57	57	44,533,320.00	89,225,534.89
3.	Moorpark Commuter	48	46	60,245,032.00	120,705,018.27
4.	Santa Clarita Commuter	35	24	37,950,888.00	76,037,184.77
5.	Lossan Corridor	134	133	116,987,364.00	234,392,138.91
6.	Riverside Via Ontario	59	24	20,746,320.00	41,566,662.87
7.	Riverside – Laupt via Fullerton	62	35	33,794,624.00	67,709,827.22
8.	Hemet - Riverside	39	39	27,723,174.00	55,545,264.28
9.	San Bernardino - Irvine	53	13	10,769,712.00	21,577,850.33
10.	Redlands Commuter	12	12	10,647,216.00	21,332,421.27
11.	Southern Pacific Routes Ports to Yuma	282	16	13,702,336.00	27,453,561.93
12.	Santa Fe Ports to Barstow	176	0	10,446,432.00	20,930,136.87
13.	Union Pacific Ports to Yermo	187	0	0.00	0.00
TOTAL:				675,580,944.00	1,353,572,360.81

A. Construction	AMT . 746,725,526.00	ROUTE 3 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 112,205,256.00
B. Locomotives	07.000.070.00	B. Locomotives	5 640 060 80
C. Contractors Mobilization/Demobilization (5% of A)	37,336,276.30	C. Contractors Mobilization/Demobilization (5% of A)	5,610,262.80
D. Testing and Operations Mobilization (2% of A)	14,934,510.52	D. Testing and Operations Mobilization (2% of A)	2,244,105.12
E. Owners Insurance (8% of A)	59,738,042.08	E. Owners Insurance (8% of A)	8,976,420.48
F. Mitigation (2% of A)	14,934,510.52	F. Mitigation (2% of A)	2,244,105.12
G. Right-of-Way	18,240,000.00	G. Right-of-Way	1,920,000.00
H. Force Account (8% of A)	59,738,042.08	H. Force Account (8% of A)	8,976,420.48
I. Employee Training (3% of A)	22,401,765.78	I. Employee Training (3% of A)	3,366,157.68
J. Construction Change Orders (12% of A & F, 2% of B)	91,399,204.38	J. Construction Change Orders (12% of A & F, 2% of B)	13,733,923.33
K. Project Services (25% of A & F, 1% of B, 10% of J)	199,554,929.57	K. Project Services (25% of A & F, 1% of B, 10% of J)	29,985,732.61
L. Subtotal (A thru K)	1,265,002,807.23	L. Subtotal (A thru K)	189,262,383.63
M. Project Reserve (20% of L)	253,000,561.45	M. Project Reserve (20% of L)	37,852,476.73
N. Total Cost in 1992 Dollars (L + M)	1,518,003,368.68	N. Total Cost in 1992 Dollars (L + M)	227,114,860.35
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 2 PROJECT ADD – ONS	AMT.	ROUTE 4 PROJECT ADD - ONS	AMT.
ROUTE 2 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 93,494,320.00	A. Construction	<u>AMT.</u> 86,664,880.00
		A. Construction B. Locomotives	
A. Construction		A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	86,664,880.00 4,333,244.00
A. Construction B. Locomotives	93,494,320.00	A. Construction B. Locomotives	86,664,880.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	93,494,320.00 4,674,716.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	93,494,320.00 4,674,716.00 1,869,886.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60 2,804,829.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40 2,599,946.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60 2,804,829.60 11,443,704.77	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40 2,599,946.40 10,607,781.31
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60 2,804,829.60 11,443,704.77 24,985,422.08 158,021,856.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40 2,599,946.40 10,607,781.31 23,160,322.53
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60 2,804,829.60 11,443,704.77 24,985,422.08 158,021,856.44 31,604,371.29	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40 2,599,946.40 10,607,781.31 23,160,322.53 145,659,150.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60 2,804,829.60 11,443,704.77 24,985,422.08 158,021,856.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40 2,599,946.40 10,607,781.31 23,160,322.53 145,659,150.24 29,131,830.05
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60 2,804,829.60 11,443,704.77 24,985,422.08 158,021,856.44 31,604,371.29	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40 2,599,946.40 10,607,781.31 23,160,322.53 145,659,150.24 29,131,830.05
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60 2,804,829.60 11,443,704.77 24,985,422.08 158,021,856.44 31,604,371.29	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40 2,599,946.40 10,607,781.31 23,160,322.53 145,659,150.24 29,131,830.05

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD – ONS	AMT.	ROUTE 7 PROJECT ADD – ONS	AMT.
A. Construction	280,102,300.00	A. Construction	143,801,496.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	14,005,115.00	C. Contractors Mobilization/Demobilization (5% of A)	7,190,074.80
D. Testing and Operations Mobilization (2% of A)	5,602,046.00	D. Testing and Operations Mobilization (2% of A)	2,876,029.92
E. Owners Insurance (8% of A)	22,408,184.00	E. Owners Insurance (8% of A + 2% of B)	11,504,119.68
F. Mitigation (2% of A)	5,602,046.00	F. Mitigation (2% of A)	2,876,029.92
G. Right-of-Way	6,720,000.00	G. Right-of-Way	2,880,000.00
H. Force Account (8% of A)	22,408,184.00	H. Force Account (8% of A)	11,504,119.68
I. Employee Training (3% of A)	8,403,069.00	I. Employee Training (3% of A)	4,314,044.88
J. Construction Change Orders (12% of A & F, 2% of B)	34,284,521.52	J. Construction Change Orders (12% of A & F, 2% of B)	17,601,303.11
K. Project Services (25% of A & F, 1% of B, 10% of J)	74,854,538.65	K. Project Services (25% of A & F, 1% of B, 10% of J)	38,429,511.79
L. Subtotal (A thru K)	474,390,004.17	L. Subtotal (A thru K)	242,976,729.78
M. Project Reserve (20% of L)	94,878,000.83	M. Project Reserve (20% of L)	48,595,345.96
N. Total Cost in 1992 Dollars (L + M)	569,268,005.01	N. Total Cost in 1992 Dollars (L + M)	291,572,075.74
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
DOUTE & DECUEST ADD. CARS	ANAT	DOLLTE & DROJECT ADD. ONG	AMT
ROUTE 6 PROJECT ADD - ONS	<u>AMT.</u>	ROUTE 8 PROJECT ADD - ONS	AMT.
A. Construction	<u>AMT.</u> 126,083,922.00	A. Construction	<u>AMT.</u> 54,627,174.00
A. Construction B. Locomotives	126,083,922.00	A. Construction B. Locomotives	54,627,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	126,083,922.00 6,304,196.10	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	54,627,174.00 2,731,358.70
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	126,083,922.00 6,304,196.10 2,521,678.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	54,627,174.00 2,731,358.70 1,092,543.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66 15,432,672.05	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22 6,686,366.10
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66 15,432,672.05 33,694,667.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22 6,686,366.10 14,598,565.98
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66 15,432,672.05 33,694,667.32 213,394,759.53	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22 6,686,366.10 14,598,565.98 92,167,714.80
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66 15,432,672.05 33,694,667.32 213,394,759.53 42,678,951.91	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22 6,686,366.10 14,598,565.98 92,167,714.80 18,433,542.96
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66 15,432,672.05 33,694,667.32 213,394,759.53	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22 6,686,366.10 14,598,565.98 92,167,714.80
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66 15,432,672.05 33,694,667.32 213,394,759.53 42,678,951.91	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22 6,686,366.10 14,598,565.98 92,167,714.80 18,433,542.96
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66 15,432,672.05 33,694,667.32 213,394,759.53 42,678,951.91	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22 6,686,366.10 14,598,565.98 92,167,714.80 18,433,542.96
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	126,083,922.00 6,304,196.10 2,521,678.44 10,086,713.76 2,521,678.44 2,880,000.00 10,086,713.76 3,782,517.66 15,432,672.05 33,694,667.32 213,394,759.53 42,678,951.91	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	54,627,174.00 2,731,358.70 1,092,543.48 4,370,173.92 1,092,543.48 960,000.00 4,370,173.92 1,638,815.22 6,686,366.10 14,598,565.98 92,167,714.80 18,433,542.96

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD – ONS	AMT.	ROUTE 11 PROJECT ADD - ONS	AMT.
A. Construction	127,935,550.00	A. Construction	512,363,224.00
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	6 906 777 50	B. Locomotives	05 649 464 00
C. Contractors Mobilization/Demobilization (5% of A)	6,396,777.50	C. Contractors Mobilization/Demobilization (5% of A)	25,618,161.20
D. Testing and Operations Mobilization (2% of A)	2,558,711.00	D. Testing and Operations Mobilization (2% of A)	10,247,264.48
E. Owners Insurance (8% of A)	10,234,844.00	E. Owners Insurance (8% of A)	40,989,057.92
F. Mitigation (2% of A)	2,558,711.00	F. Mitigation (2% of A)	10,247,264.48
G. Right-of-Way	2,880,000.00	G. Right-of-Way	13,440,000.00
H. Force Account (8% of A)	10,234,844.00	H. Force Account (8% of A)	40,989,057.92
I. Employee Training (3% of A)	3,838,066.50	I. Employee Training (3% of A)	15,370,896.72
J. Construction Change Orders (12% of A & F, 2% of B)	15,659,311.32	J. Construction Change Orders (12% of A & F, 2% of B)	62,713,258.62
K. Project Services (25% of A & F, 1% of B, 10% of J)	34,189,496.38	K. Project Services (25% of A & F, 1% of B, 10% of J)	136,923,947.98
L. Subtotal (A thru K)	216,486,311.70	L. Subtotal (A thru K)	868,902,133.32
M. Project Reserve (20% of L)	43,297,262.34	M. Project Reserve (20% of L)	173,780,426.66
N. Total Cost in 1992 Dollars (L + M)	259,783,574.04	N. Total Cost in 1992 Dollars (L + M)	1,042,682,559.98
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010	•	6% 2001 thru 2010	
ROUTE 10 PROJECT ADD - ONS	AMT.	ROUTE 12 PROJECT ADD - ONS	AMT.
A. Construction	18,997,216.00	A. Construction	370,955,726.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	949,860.80	C. Contractors Mobilization/Demobilization (5% of A)	18,547,786.30
D. Testing and Operations Mobilization (2% of A)	379,944.32	D. Testing and Operations Mobilization (2% of A)	7,419,114.52
E. Owners Insurance (8% of A)	1,519,777.28	E. Owners Insurance (8% of A)	29,676,458.08
F. Mitigation (2% of A)			
	379,944.32	F. Mitigation (2% of A)	7,419,114.52
G. Right-of-Way	379,944.32 960,000.00	G. Right-of-Way	
			7,419,114.52
G. Right-of-Way	960,000.00	G. Right-of-Way	7,419,114.52 7,680,000.00
G. Right-of-Way H. Force Account (8% of A)	960,000.00 1,519,777.28	G. Right-of-Way H. Force Account (8% of A)	7,419,114.52 7,680,000.00 29,676,458.08
G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	960,000.00 1,519,777.28 569,916.48	G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	7,419,114.52 7,680,000.00 29,676,458.08 11,128,671.78
 G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) 	960,000.00 1,519,777.28 569,916.48 2,325,259.24	G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	7,419,114.52 7,680,000.00 29,676,458.08 11,128,671.78 45,404,980.86
 G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) 	960,000.00 1,519,777.28 569,916.48 2,325,259.24 5,076,816.00	G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	7,419,114.52 7,680,000.00 29,676,458.08 11,128,671.78 45,404,980.86 99,134,208.22
 G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) 	960,000.00 1,519,777.28 569,916.48 2,325,259.24 5,076,816.00 32,678,511.72	G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	7,419,114.52 7,680,000.00 29,676,458.08 11,128,671.78 45,404,980.86 99,134,208.22 627,042,518.36
G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	960,000.00 1,519,777.28 569,916.48 2,325,259.24 5,076,816.00 32,678,511.72 6,535,702.34	G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	7,419,114.52 7,680,000.00 29,676,458.08 11,128,671.78 45,404,980.86 99,134,208.22 627,042,518.36 125,408,503.67
G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	960,000.00 1,519,777.28 569,916.48 2,325,259.24 5,076,816.00 32,678,511.72 6,535,702.34	G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	7,419,114.52 7,680,000.00 29,676,458.08 11,128,671.78 45,404,980.86 99,134,208.22 627,042,518.36 125,408,503.67
G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	960,000.00 1,519,777.28 569,916.48 2,325,259.24 5,076,816.00 32,678,511.72 6,535,702.34	G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	7,419,114.52 7,680,000.00 29,676,458.08 11,128,671.78 45,404,980.86 99,134,208.22 627,042,518.36 125,408,503.67

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

5% 1995 thru 2000 6% 2001 thru 2010

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	396,729,044.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	19,836,452.20
D. Testing and Operations Mobilization (2% of A)	7,934,580.88
E. Owners Insurance (8% of A)	31,738,323.52
F. Mitigation (2% of A)	7,934,580.88
G. Right-of-Way	8,640,000.00
H. Force Account (8% of A)	31,738,323.52
I. Employee Training (3% of A)	11,901,871.32
J. Construction Change Orders (12% of A & F, 2% of B)	48,559,634.99
K. Project Services (25% of A & F, 1% of B, 10% of J)	106,021,869.72
L. Subtotal (A thru K)	671,034,681.02
M. Project Reserve (20% of L)	134,206,936.20
N. Total Cost in 1992 Dollars (L + M)	805,241,617.23
O. Annual Inflation:	
4% 1992 thru 1995	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 1 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 288,034,526.00 14,401,726.30 5,760,690.52 23,042,762.08 5,760,690.52 23,042,762.08 8,641,035.78 35,255,425.98 76,974,346.73 480,913,965.99 96,182,793.20 577,096,759.19	ROUTE 3 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 60,245,032.00 3,012,251.60 1,204,900.64 4,819,602.56 1,204,900.64 4,819,602.56 1,807,350.96 7,373,991.92 16,099,882.35 100,587,515.23 20,117,503.05 120,705,018.27
ROUTE 2 PROJECT ADD - ONS	AMT.	ROUTE 4 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 37,950,888.00
A. Construction B. Locomotives	44,533,320.00	B. Locomotives	37,330,000.00
C. Contractors Mobilization/Demobilization (5% of A)	2,226,666.00	C. Contractors Mobilization/Demobilization (5% of A)	1,897,544.40
D. Testing and Operations Mobilization (2% of A)	890,666.40	D. Testing and Operations Mobilization (2% of A)	759,017.76
E. Owners Insurance (8% of A)	3,562,665.60	E. Owners Insurance (8% of A)	3,036,071.04
F. Mitigation (2% of A)	890,666.40	F. Mitigation (2% of A)	759,017.76
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	3,562,665.60	H. Force Account (8% of A)	3,036,071.04
I. Employee Training (3% of A)	1,335,999.60	I. Employee Training (3% of A)	1,138,526.64
J. Construction Change Orders (12% of A & F, 2% of B)	5,450,878.37	J. Construction Change Orders (12% of A & F, 2% of B)	4,645,188.69
K. Project Services (25% of A & F, 1% of B, 10% of J)	11,901,084.44	K. Project Services (25% of A & F, 1% of B, 10% of J)	10,141,995.31
L. Subtotal (A thru K)	74,354,612.40	L. Subtotal (A thru K)	63,364,320.64
M. Project Reserve (20% of L)	14,870,922.48	M. Project Reserve (20% of L)	12,672,864.13
N. Total Cost in 1992 Dollars (L + M)	89,225,534.89	N. Total Cost in 1992 Dollars (L + M)	76,037,184.77
O. Annual Inflation:		O. Annual Inflation:	
		40/ 4000 Ab 400F	
4% 1992 thru 1995		4% 1992 thru 1995	
4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010		4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD - ONS	AMT.	ROUTE 7 PROJECT ADD – ONS A. Construction	AMT. 33,794,624.00
A. Construction	116,987,364.00	B. Locomotives	00,754,024.00
B. Locomotives	E 840 369 00	C. Contractors Mobilization/Demobilization (5% of A)	1,689,731.20
C. Contractors Mobilization/Demobilization (5% of A)	5,849,368.20	D. Testing and Operations Mobilization (2% of A)	675,892.48
D. Testing and Operations Mobilization (2% of A)	2,339,747.28	E. Owners Insurance (8% of A + 2% of B)	2,703,569.92
E. Owners Insurance (8% of A)	9,358,989.12	•	675,892.48
F. Mitigation (2% of A)	2,339,747.28	F. Mitigation (2% of A)	075,052.40
G. Right-of-Way	0.050.000.40	G. Right-of-Way	2,703,569.92
H. Force Account (8% of A)	9,358,989.12	H. Force Account (8% of A)	1,013,838.72
I. Employee Training (3% of A)	3,509,620.92	I. Employee Training (3% of A)	4,136,461.98
J. Construction Change Orders (12% of A & F, 2% of B)	14,319,253.35	J. Construction Change Orders (12% of A & F, 2% of B)	
K. Project Services (25% of A & F, 1% of B, 10% of J)	31,263,703.16	K. Project Services (25% of A & F, 1% of B, 10% of J)	9,031,275.32
L. Subtotal (A thru K)	195,326,782.43	L. Subtotal (A thru K)	56,424,856.02 11,284,971.20
M. Project Reserve (20% of L)	39,065,356.49	M. Project Reserve (20% of L)	
N. Total Cost in 1992 Dollars (L + M)	234,392,138.91	N. Total Cost in 1992 Dollars (L + M)	67,709,827.22
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010	*	6% 2001 thru 2010	
ROUTE 6 PROJECT ADD - ONS	AMT.	ROUTE 8 PROJECT ADD - ONS	AMT.
A. Construction	20,746,320.00	A. Construction	27,723,174.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	1,037,316.00	C. Contractors Mobilization/Demobilization (5% of A)	1,386,158.70
D. Testing and Operations Mobilization (2% of A)	414,926.40	D. Testing and Operations Mobilization (2% of A)	554,463.48
E. Owners Insurance (8% of A)	1,659,705.60	E. Owners Insurance (8% of A + 2% of B)	2,217,853.92
F. Mitigation (2% of A)	414,926.40	F. Mitigation (2% of A)	554,463.48
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	1,659,705.60	H. Force Account (8% of A)	2,217,853.92
I. Employee Training (3% of A)	622,389.60	I. Employee Training (3% of A)	831,695.22
J. Construction Change Orders (12% of A & F, 2% of B)	2,539,349.57	J. Construction Change Orders (12% of A & F, 2% of B)	3,393,316.50
K. Project Services (25% of A & F, 1% of B, 10% of J)	5,544,246.56	K. Project Services (25% of A & F, 1% of B, 10% of J)	7,408,741.02
L. Subtotal (A thru K)	34,638,885.72	L. Subtotal (A thru K)	46,287,720.24
M. Project Reserve (20% of L)		M. Danie at Danama (000/ af 1)	9,257,544.05
	6,927,777.14	M. Project Reserve (20% of L)	
N. Total Cost in 1992 Dollars (L + M)	6,927,777.14 41,566,662.87	N. Total Cost in 1992 Dollars (L + M)	55,545,264.28
N. Total Cost in 1992 Dollars (L + M)		N. Total Cost in 1992 Dollars (L + M)	
N. Total Cost in 1992 Dollars (L + M)O. Annual Inflation:		N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD – ONS A. Construction	AMT . 10,769,712.00	A. Construction	AMT. 13,702,336.00
B. Locomotives		B. Locomotives	69E 116 90
C. Contractors Mobilization/Demobilization (5% of A)	538,485.60	C. Contractors Mobilization/Demobilization (5% of A)	685,116.80 274,046.72
D. Testing and Operations Mobilization (2% of A)	215,394.24	D. Testing and Operations Mobilization (2% of A)	
E. Owners Insurance (8% of A)	861,576.96	E. Owners Insurance (8% of A)	1,096,186.88
F. Mitigation (2% of A)	215,394.24	F. Mitigation (2% of A)	274,046.72
G. Right-of-Way		G. Right-of-Way	1 006 196 99
H. Force Account (8% of A)	861,576.96	H. Force Account (8% of A)	1,096,186.88
I. Employee Training (3% of A)	323,091.36	I. Employee Training (3% of A)	411,070.08
J. Construction Change Orders (12% of A & F, 2% of B)	1,318,212.75	J. Construction Change Orders (12% of A & F, 2% of B)	1,677,165.93
K. Project Services (25% of A & F, 1% of B, 10% of J)	2,878,097.83	K. Project Services (25% of A & F, 1% of B, 10% of J)	3,661,812.27
L. Subtotal (A thru K)	17,981,541.94	L. Subtotal (A thru K)	22,877,968.28
M. Project Reserve (20% of L)	3,596,308.39	M. Project Reserve (20% of L)	4,575,593.66
N. Total Cost in 1992 Dollars (L + M)	21,577,850.33	N. Total Cost in 1992 Dollars (L + M)	27,453,561.93
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 10 PROJECT ADD - ONS	AMT.	ROUTE 12 PROJECT ADD - ONS	AMT.
A. Construction	10,647,216.00	A. Construction	10,446,432.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	532,360.80	C. Contractors Mobilization/Demobilization (5% of A)	522,321.60
D. Testing and Operations Mobilization (2% of A)	212,944.32	D. Testing and Operations Mobilization (2% of A)	208,928.64
E. Owners Insurance (8% of A)	851,777.28	E. Owners Insurance (8% of A)	835,714.56
F. Mitigation (2% of A)	212,944.32	F. Mitigation (2% of A)	208,928.64
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	851,777.28	H. Force Account (8% of A)	835,714.56
I. Employee Training (3% of A)	319,416.48	I. Employee Training (3% of A)	313,392.96
J. Construction Change Orders (12% of A & F, 2% of B)	1,303,219.24	J. Construction Change Orders (12% of A & F, 2% of B)	1,278,643.28
K. Project Services (25% of A & F, 1% of B, 10% of J)	2,845,362.00	K. Project Services (25% of A & F, 1% of B, 10% of J)	2,791,704.49
L. Subtotal (A thru K)	17,777,017.72	L. Subtotal (A thru K)	17,441,780.72
M. Project Reserve (20% of L)	3,555,403.54	M. Project Reserve (20% of L)	3,488,356.14
N. Total Cost in 1992 Dollars (L + M)	21,332,421.27	N. Total Cost in 1992 Dollars (L + M)	20,930,136.87
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

6% 2001 thru 2010

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	0.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	0.00
D. Testing and Operations Mobilization (2% of A)	0.00
E. Owners Insurance (8% of A)	0.00
F. Mitigation (2% of A)	0.00
G. Right-of-Way	
H. Force Account (8% of A)	0.00
I. Employee Training (3% of A)	0.00
J. Construction Change Orders (12% of A & F, 2% of B)	0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00
L. Subtotal (A thru K)	0.00
M. Project Reserve (20% of L)	0.00
N. Total Cost in 1992 Dollars (L + M)	0.00
O. Annual Inflation:	
4% 1992 thru 1995	
5% 1995 thru 2000	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 1 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	AMT. 66,546,458.00 3,327,322.90 1,330,929.16 5,323,716.64 1,330,929.16 9,600,000.00 5,323,716.64 1,996,393.74 8,145,286.46 17,783,875.44 120,708,628.14 24,141,725.63 144,850,353.76	ROUTE 3 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	AMT. 112,205,256.00 5,610,262.80 2,244,105.12 8,976,420.48 2,244,105.12 1,920,000.00 8,976,420.48 3,366,157.68 13,733,923.33 29,985,732.61 189,262,383.63 37,852,476.73 227,114,860.35
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 2 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 93,494,320.00 4,674,716.00 1,869,886.40 7,479,545.60 1,869,886.40 1,920,000.00 7,479,545.60 2,804,829.60 11,443,704.77 24,985,422.08 158,021,856.44 31,604,371.29 189,626,227.73	ROUTE 4 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 86,664,880.00 4,333,244.00 1,733,297.60 6,933,190.40 1,733,297.60 960,000.00 6,933,190.40 2,599,946.40 10,607,781.31 23,160,322.53 145,659,150.24 29,131,830.05 174,790,980.29

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD – ONS	<u>AMT.</u> 251,709,820.00	ROUTE 7 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 127,988,720.00
A. Construction B. Locomotives	251,709,820.00	B. Locomotives	127,000,720.00
C. Contractors Mobilization/Demobilization (5% of A)	12,585,491.00	C. Contractors Mobilization/Demobilization (5% of A)	6,399,436.00
D. Testing and Operations Mobilization (2% of A)	5,034,196.40	D. Testing and Operations Mobilization (2% of A)	2,559,774.40
E. Owners Insurance (8% of A)	20,136,785.60	E. Owners Insurance (8% of A)	10,239,097.60
F. Mitigation (2% of A)	5,034,196.40	F. Mitigation (2% of A)	2,559,774.40
G. Right-of-Way	3,840,000.00	G. Right-of-Way	1,920,000.00
H. Force Account (8% of A)	20,136,785.60	H. Force Account (8% of A)	10,239,097.60
I. Employee Training (3% of A)	7,551,294.60	I. Employee Training (3% of A)	3,839,661.60
J. Construction Change Orders (12% of A & F, 2% of B)	30,809,281.97	J. Construction Change Orders (12% of A & F, 2% of B)	15,665,819.33
K. Project Services (25% of A & F, 1% of B, 10% of J)	67,266,932.30	K. Project Services (25% of A & F, 1% of B, 10% of J)	34,203,705.53
L. Subtotal (A thru K)	424,104,783.86	L. Subtotal (A thru K)	215,615,086.46
M. Project Reserve (20% of L)	84,820,956.77	M. Project Reserve (20% of L)	43,123,017.29
N. Total Cost in 1992 Dollars (L + M)	508,925,740.64	N. Total Cost in 1992 Dollars (L + M)	258,738,103.75
O. Annual Inflation:	000,020,740.04	O. Annual Inflation:	2
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
0,0 2001 1111 2010			
ROUTE 6 PROJECT ADD – ONS	AMT.	ROUTE 8 PROJECT ADD - ONS	AMT.
A. Construction	110,279,602.00	A. Construction	54,627,174.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	5,513,980.10	C. Contractors Mobilization/Demobilization (5% of A)	2,731,358.70
D. Testing and Operations Mobilization (2% of A)	2,205,592.04	D. Testing and Operations Mobilization (2% of A)	1,092,543.48
E. Owners Insurance (8% of A)	8,822,368.16	E. Owners Insurance (8% of A)	4,370,173.92
F. Mitigation (2% of A)	2,205,592.04	F. Mitigation (2% of A)	1,092,543.48
G. Right-of-Way	1,920,000.00	G. Right-of-Way	960,000.00
H. Force Account (8% of A)	8,822,368.16	H. Force Account (8% of A)	4,370,173.92
I. Employee Training (3% of A)	3,308,388.06	I. Employee Training (3% of A)	1,638,815.22
J. Construction Change Orders (12% of A & F, 2% of B)	13,498,223.28	J. Construction Change Orders (12% of A & F, 2% of B)	6,686,366.10
K. Project Services (25% of A & F, 1% of B, 10% of J)		V D	1/ 508 565 08
	29,471,120.84	K. Project Services (25% of A & F, 1% of B, 10% of J)	14,598,565.98
L. Subtotal (A thru K)	186,047,234.68	L. Subtotal (A thru K)	92,167,714.80
	186,047,234.68 37,209,446.94	L. Subtotal (A thru K) M. Project Reserve (20% of L)	92,167,714.80 18,433,542.96
L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	186,047,234.68	L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	92,167,714.80
L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	186,047,234.68 37,209,446.94	L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	92,167,714.80 18,433,542.96
L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	186,047,234.68 37,209,446.94	L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	92,167,714.80 18,433,542.96
L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	186,047,234.68 37,209,446.94	L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	92,167,714.80 18,433,542.96

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	AMT. 107,297,534.00 5,364,876.70 2,145,950.68 8,583,802.72 2,145,950.68 1,920,000.00 8,583,802.72 3,218,926.02 13,133,218.16 28,674,192.99 181,068,254.67 36,213,650.93 217,281,905.60	ROUTE 11 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000	AMT. 318,444,360.00 15,922,218.00 6,368,887.20 25,475,548.80 6,368,887.20 500,000.00 25,475,548.80 9,553,330.80 38,977,589.66 85,101,070.77 532,187,441.23 106,437,488.25 638,624,929.48
ROUTE 10 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 18,997,216.00 949,860.80 379,944.32 1,519,777.28 379,944.32 960,000.00 1,519,777.28 569,916.48 2,325,259.24 5,076,816.00 32,678,511.72 6,535,702.34 39,214,214.07	ROUTE 12 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 135,653,390.00 6,782,669.50 2,713,067.80 10,852,271.20 2,713,067.80 4,800,000.00 10,852,271.20 4,069,601.70 16,603,974.94 36,252,011.94 231,292,326.08 46,258,465.22 277,550,791.30

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010

ROUTE 13 PROJECT ADD-ONS	AMT.
A. Construction	119,334,448.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	5,966,722.40
D. Testing and Operations Mobilization (2% of A)	2,386,688.96
E. Owners Insurance (8% of A)	9,546,755.84
F. Mitigation (2% of A)	2,386,688.96
G. Right-of-Way	3,840,000.00
H. Force Account (8% of A)	9,546,755.84
I. Employee Training (3% of A)	3,580,033.44
J. Construction Change Orders (12% of A & F, 2% of B)	14,606,536.44
K. Project Services (25% of A & F, 1% of B, 10% of J)	31,890,937.88
L. Subtotal (A thru K)	203,085,567.76
M. Project Reserve (20% of L)	40,617,113.55
N. Total Cost in 1992 Dollars (L + M)	243,702,681.31
O. Annual Inflation:	

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 1 PROJECT ADD - ONS	AMT.	ROUTE 3 PROJECT ADD - ONS	AMT.
A. Construction	29,143,458.00	A. Construction	60,245,032.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	1,457,172.90	C. Contractors Mobilization/Demobilization (5% of A)	3,012,251.60
D. Testing and Operations Mobilization (2% of A)	582,869.16	D. Testing and Operations Mobilization (2% of A)	1,204,900.64
E. Owners Insurance (8% of A)	2,331,476.64	E. Owners Insurance (8% of A)	4,819,602.56
F. Mitigation (2% of A)	582,869.16	F. Mitigation (2% of A)	1,204,900.64
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	2,331,476.64	H. Force Account (8% of A)	4,819,602.56
I. Employee Training (3% of A)	874,303.74	I. Employee Training (3% of A)	1,807,350.96
J. Construction Change Orders (12% of A & F, 2% of B)	3,567,159.26	J. Construction Change Orders (12% of A & F, 2% of B)	7,373,991.92
K. Project Services (25% of A & F, 1% of B, 10% of J)	7,788,297.72	K. Project Services (25% of A & F, 1% of B, 10% of J)	16,099,882.35
L. Subtotal (A thru K)	48,659,083.22	L. Subtotal (A thru K)	100,587,515.23
M. Project Reserve (20% of L)	9,731,816.64	M. Project Reserve (20% of L)	20,117,503.05
N. Total Cost in 1992 Dollars (L + M)	58,390,899.86	N. Total Cost in 1992 Dollars (L + M)	120,705,018.27
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010	•	6% 2001 thru 2010	
ROUTE 2 PROJECT ADD - ONS	AMT.	ROUTE 4 PROJECT ADD - ONS	AMT.
A. Construction	<u>AMT.</u> 44,533,320.00	A. Construction	<u>AMT.</u> 37,950,888.00
A. Construction B. Locomotives	44,533,320.00	A. Construction B. Locomotives	37,950,888.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	44,533,320.00 2,226,666.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	37,950,888.00 1,897,544.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	44,533,320.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	37,950,888.00 1,897,544.40 759,017.76
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	44,533,320.00 2,226,666.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	44,533,320.00 2,226,666.00 890,666.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	37,950,888.00 1,897,544.40 759,017.76
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40 14,870,922.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64 12,672,864.13
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40 14,870,922.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64 12,672,864.13
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40 14,870,922.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64 12,672,864.13
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40 14,870,922.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64 12,672,864.13

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD - ONS	AMT.	ROUTE 7 PROJECT ADD - ONS	AMT.
A. Construction	116,638,884.00	A. Construction	27,449,648.00
B. Locomotives	5 004 044 00	B. Locomotives	1 070 400 40
C. Contractors Mobilization/Demobilization (5% of A)	5,831,944.20	C. Contractors Mobilization/Demobilization (5% of A)	1,372,482.40
D. Testing and Operations Mobilization (2% of A)	2,332,777.68	D. Testing and Operations Mobilization (2% of A)	548,992.96
E. Owners Insurance (8% of A)	9,331,110.72	E. Owners Insurance (8% of A)	2,195,971.84
F. Mitigation (2% of A)	2,332,777.68	F. Mitigation (2% of A)	548,992.96
G. Right-of-Way		G. Right-of-Way	0.405.054.04
H. Force Account (8% of A)	9,331,110.72	H. Force Account (8% of A)	2,195,971.84
I. Employee Training (3% of A)	3,499,166.52	I. Employee Training (3% of A)	823,489.44
J. Construction Change Orders (12% of A & F, 2% of B)	14,276,599.40	J. Construction Change Orders (12% of A & F, 2% of B)	3,359,836.92
K. Project Services (25% of A & F, 1% of B, 10% of J)	31,170,575.36	K. Project Services (25% of A & F, 1% of B, 10% of J)	7,335,643.93
L. Subtotal (A thru K)	194,744,946.28	L. Subtotal (A thru K)	45,831,030.29
M. Project Reserve (20% of L)	38,948,989.26	M. Project Reserve (20% of L)	9,166,206.06
N. Total Cost in 1992 Dollars (L + M)	233,693,935.54	N. Total Cost in 1992 Dollars (L + M)	54,997,236.34
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000 .	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 6 PROJECT ADD - ONS	AMT.	ROUTE 8 PROJECT ADD - ONS	AMT.
ROUTE 6 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 20,587,920.00	ROUTE 8 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 27,723,174.00
		A. Construction B. Locomotives	
A. Construction		A. Construction	
A. Construction B. Locomotives	20,587,920.00	A. Construction B. Locomotives	27,723,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	20,587,920.00 1,029,396.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	27,723,174.00 1,386,158.70
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	20,587,920.00 1,029,396.00 411,758.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	27,723,174.00 1,386,158.70 554,463.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60 2,519,961.41	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60 2,519,961.41 5,501,915.74	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60 2,519,961.41 5,501,915.74 34,374,414.75	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60 2,519,961.41 5,501,915.74 34,374,414.75 6,874,882.95	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24 9,257,544.05
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60 2,519,961.41 5,501,915.74 34,374,414.75	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60 2,519,961.41 5,501,915.74 34,374,414.75 6,874,882.95	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24 9,257,544.05
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60 2,519,961.41 5,501,915.74 34,374,414.75 6,874,882.95	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24 9,257,544.05
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	20,587,920.00 1,029,396.00 411,758.40 1,647,033.60 411,758.40 1,647,033.60 617,637.60 2,519,961.41 5,501,915.74 34,374,414.75 6,874,882.95	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24 9,257,544.05

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD - ONS	AMT.	ROUTE 11 PROJECT ADD – ONS	AMT.
A. Construction	10,674,672.00	A. Construction	0.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	533,733.60	C. Contractors Mobilization/Demobilization (5% of A)	0.00
D. Testing and Operations Mobilization (2% of A)	213,493.44	D. Testing and Operations Mobilization (2% of A)	0.00
E. Owners Insurance (8% of A)	853,973.76	E. Owners Insurance (8% of A)	0.00
F. Mitigation (2% of A)	213,493.44	F. Mitigation (2% of A)	0.00
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	853,973.76	H. Force Account (8% of A)	0.00
I. Employee Training (3% of A)	320,240.16	I. Employee Training (3% of A)	0.00
J. Construction Change Orders (12% of A & F, 2% of B)	1,306,579.85	J. Construction Change Orders (12% of A & F, 2% of B)	0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	2,852,699.35	K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00
L. Subtotal (A thru K)	17,822,859.36	L. Subtotal (A thru K)	0.00
M. Project Reserve (20% of L)	3,564,571.87	M. Project Reserve (20% of L)	0.00
N. Total Cost in 1992 Dollars (L + M)	21,387,431.23	N. Total Cost in 1992 Dollars (L + M)	0.00
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 10 PROJECT ADD - ONS	AMT.	ROUTE 12 PROJECT ADD – ONS	AMT.
A. Construction	10,647,216.00	A. Construction	160,000.00
B. Locomotives	,	B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	532,360.80	C. Contractors Mobilization/Demobilization (5% of A)	8,000.00
D. Testing and Operations Mobilization (2% of A)	212,944.32	D. Testing and Operations Mobilization (2% of A)	3,200.00
E. Owners Insurance (8% of A)	851,777.28	E. Owners Insurance (8% of A)	12,800.00
F. Mitigation (2% of A)	212,944.32	F. Mitigation (2% of A)	3,200.00
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	851,777.28	H. Force Account (8% of A)	12,800.00
I. Employee Training (3% of A)	319,416.48	I. Employee Training (3% of A)	4,800.00
J. Construction Change Orders (12% of A & F, 2% of B)	1,303,219.24	J. Construction Change Orders (12% of A & F, 2% of B)	19,584.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	2,845,362.00	K. Project Services (25% of A & F, 1% of B, 10% of J)	42,758.40
	2,040,002.00		
L. Subtotal (A thru K)	17,777,017.72	L. Subtotal (A thru K)	267,142.40
			267,142.40 53,428.48
L. Subtotal (A thru K)	17,777,017.72	L. Subtotal (A thru K)	
L. Subtotal (A thru K) M. Project Reserve (20% of L)	17,777,017.72 3,555,403.54	L. Subtotal (A thru K) M. Project Reserve (20% of L)	53,428.48
L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	17,777,017.72 3,555,403.54	L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	53,428.48
L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	17,777,017.72 3,555,403.54	L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	53,428.48
 L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 	17,777,017.72 3,555,403.54	L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	53,428.48

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	0.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	0.00
D. Testing and Operations Mobilization (2% of A)	0.00
E. Owners Insurance (8% of A)	0.00
F. Mitigation (2% of A)	0.00
G. Right-of-Way	
H. Force Account (8% of A)	0.00
I. Employee Training (3% of A)	0.00
J. Construction Change Orders (12% of A & F, 2% of B)	0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00
L. Subtotal (A thru K)	0.00
M. Project Reserve (20% of L)	0.00
N. Total Cost in 1992 Dollars (L + M)	0.00
O. Annual Inflation:	
4% 1992 thru 1995	
5% 1995 thru 2000	
6% 2001 thru 2010	

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

TOTAL COSTS* RELATED TO ELECTRIFICATION (No Segments Duplicated) 50Kv Minimum

COMMUTER ONLY

COMMUTER & FREIGHT

ELEMENTS	CONSTRUCTION COST	TOTAL	CONSTRUCTION COST	TOTAL COST
	(A)	(N)	(A)	(N)
CIVIL, STRUCTURAL & SIGNAL COSTS	385,754,212.00	772,884,795.03	675,580,944.00	1,353,572,360.81
SYSWIDE TRACTION ELECT. COSTS	357,604,000.00	731,459,931.07	837,299,000.00	1,728,273,482.83
SHOPS & ANCILLARY FACILITIES	0.00	0.00	40,000,000.00	80,142,720.00
LOCOMOTIVE CHANGE FACILITIES	0.00	0.00	34,000,000.00	68,121,312.00
CONTROL CENTER	5,000,000.00	10,017,840.00	10,000,000.00	20,035,680.00
TOTAL	748,358,212.00	1,514,362,566.10	1,596,879,944.00	3,250,145,555.64

^{*(}Locomotives not included)

4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010

SYSTEM-WIDE TRACTION ELECTRIFICATION COSTS (NO SEGMENTS DUPLICATED) 50Kv Minimum

	COMMUTER ONLY	COMMUTER & FREIGHT
PROJECT ADD-ONS	AMT.	AMT.
A. Construction	357,604,000.00	837,299,000.00
B. Locomotives		
C. Contractors Mobilization/Demobilization (5% of A)	17,880,200.00	41,864,950.00
D. Testing and Operations Mobilization (2% of A)	7,152,080.00	16,745,980.00
E. Owners Insurance (8% of A)	28,608,320.00	66,983,920.00
F. Mitigation (2% of A)	7,152,080.00	16,745,980.00
G. Right-of-Way	12,480,000.00	42,240,000.00
H. Force Account (8% of A)	28,608,320.00	66,983,920.00
I. Employee Training (3% of A)	10,728,120.00	25,118,970.00
J. Construction Change Orders (12% of A & F, 2% of B)	43,770,729.60	102,485,397.60
K. Project Services (25% of A & F, 1% of B, 10% of J)	95,566,092.96	223,759,784.76
L. Subtotal (A thru K)	609,549,942.56	1,440,227,902.36
M. Project Reserve (20% of L)	121,909,988.51	288,045,580.47
N. Total Cost in 1992 Dollars (L + M)	731,459,931.07	1,728,273,482.83
O. Annual Inflation:		

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION 50Kv Minimum

*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER ONLY

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	DUPLICATED CONSTRUCTION COSTS (A)	DUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	62,891,458.00	127,159,312.72
2.	Baldwin Park Commuter	57	57	94,127,320.00	189,742,486.28
3.	Moorpark Commuter	48	46	112,817,256.00	227,189,043.97
4.	Santa Clarita Commuter	35	24	87,987,880.00	177,441,700.76
5.	Lossan Corridor	134	133	251,541,820.00	506,285,141.21
6.	Riverside Via Ontario	59	24	111,206,602.00	223,961,989.16
7.	Riverside – Laupt via Fullerton	62	35	129,357,720.00	260,328,988.34
8.	Hemet – Riverside	39	39	55,670,174.00	112,690,979.18
9.	San Bernardino - Irvine	53	13	105,134,534.00	211,796,188.02
10.	Redlands Commuter	12	12	19,323,216.00	39,867,377.23
11.	Southern Pacific Routes Ports to Yuma	282	16	283,047,360.00	568,256,632.98
12.	Santa Fe Ports to Barstow	176	0	138,418,390.00	279,634,656.82
13.	Union Pacific Ports to Yermo	187	0	125,878,448.00	254,510,030.30

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION 50Kv Minimum

*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER & FREIGHT

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	DUPLICATED CONSTRUCTION COSTS (A)	DUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	714,139,526.00	1,440,043,101.83
2.	Baldwin Park Commuter	57	57	94,127,320.00	189,742,486.28
3.	Moorpark Commuter	48	46	112,817,256.00	227,189,043.97
4.	Santa Clarita Commuter	35	24	87,987,880.00	177,441,700.76
5.	Lossan Corridor	134	133	265,844,300.00	536,093,132.46
6.	Riverside Via Ontario	59	24	124,285,922.00	251,319,296.17
7.	Riverside – Laupt via Fullerton	62	35	142,269,496.00	287,350,609.56
8.	Hemet - Riverside	39	39	55,670,174.00	112,690,979.18
9.	San Bernardino - Irvine	53	13	117,636,550.00	237,996,827.21
10.	Redlands Commuter	12	12	19,323,216.00	39,867,377.23
11.	Southern Pacific Routes Ports to Yuma	282	16	476,966,224.00	962,546,263.49
12.	Santa Fe Ports to Barstow	176	0	367,055,726.00	740,029,106.83
13.	Union Pacific Ports to Yermo	187	0	387,309,044.00	780,608,006.67

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION 50Kv Minimum

*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not included

COMMUTER ONLY (NO SEGMENTS DUPLICATED)

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	UNDUPLICATED CONSTRUCTION COSTS (A)	UNDUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	29,143,458.00	58,390,899.86
2.	Baldwin Park Commuter	57	57	44,533,320.00	89,225,534.89
3.	Moorpark Commuter	48	46	60,245,032.00	120,705,018.27
4.	Santa Clarita Commuter	35	24	37,950,888.00	76,037,184.77
5.	Lossan Corridor	134	133	116,638,884.00	233,693,935.54
6.	Riverside Via Ontario	59	24	20,587,920.00	41,249,297.70
7.	Riverside – Laupt via Fullerton	62	35	27,449,648.00	54,997,236.34
8.	Hemet – Riverside	39	39	27,723,174.00	55,545,264.28
9.	San Bernardino – Irvine	53	13	10,674,672.00	21,387,431.23
10.	Redlands Commuter	12	12	10,647,216.00	21,332,421.27
11.	Southern Pacific Routes Ports to Yuma	282	16	0.00	0.00
12.	Santa Fe Ports to Barstow	176	0	160,000.00	320,570.88
13.	Union Pacific Ports to Yermo	187	0	0.00	0.00
TOTAL:				385,754,212.00	772,884,795.03

SUMMARY OF COSTS BY ROUTE* COSTS RELATED TO ELECTRIFICATION
50Kv Minimum
*Locomotives, Shops & Ancillary Facilities, Locomotive Change Facilities and Control Center not include

COMMUTER & FREIGHT (NO SEGMENTS DUPLICATED)

ROUTE	DESCRIPTION	RTE. MILES	UNDUPLICATED RTE. MILES	UNDUPLICATED CONSTRUCTION COSTS (A)	UNDUPLICATED TOTAL COST (N)
1.	UP/SP Corridor	394	394	288,034,526.00	577,096,759.19
2.	Baldwin Park Commuter	57	57	44,533,320.00	89,225,534.89
3.	Moorpark Commuter	48	46	60,245,032.00	120,705,018.27
4.	Santa Clarita Commuter	35	24	37,950,888.00	76,037,184.77
5.	Lossan Corridor	134	133	116,987,364.00	234,392,138.91
6.	Riverside Via Ontario	59	24	20,746,320.00	41,566,662.87
7.	Riverside – Laupt via Fullerton	62	35	33,794,624.00	67,709,827.22
8.	Hemet – Riverside	39	39	27,723,174.00	55,545,264.28
9.	San Bernardino – Irvine	53	13	10,769,712.00	21,577,850.33
10.	Redlands Commuter	12	12	10,647,216.00	21,332,421.27
11.	Southern Pacific Routes Ports to Yuma	282	16	13,702,336.00	27,453,561.93
12.	Santa Fe Ports to Barstow	176	0	10,446,432.00	20,930,136.87
13.	Union Pacific Ports to Yermo	187	0	0.00	0.00
TOTAL:				675,580,944.00	1,353,572,360.81

ROUTE 1 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 714,139,526.00 35,706,976.30 14,282,790.52 57,131,162.08 14,282,790.52 7,680,000.00 57,131,162.08 21,424,185.78 87,410,677.98 190,846,646.93 1,200,035,918.19 240,007,183.64 1,440,043,101.83	ROUTE 3 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 112,817,256.00 5,640,862.80 2,256,345.12 9,025,380.48 2,256,345.12 960,000.00 9,025,380.48 3,384,517.68 13,808,832.13 30,149,283.49 189,324,203.31 37,864,840.66 227,189,043.97
ROUTE 2 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 94,127,320.00 4,706,366.00 1,882,546.40 7,530,185.60 1,882,546.40 960,000.00 7,530,185.60 2,823,819.60 11,521,183.97 25,154,585.00 158,118,738.56 31,623,747.71 189,742,486.28	ROUTE 4 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right–of–Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 87,987,880.00 4,399,394.00 1,759,757.60 7,039,030.40 1,759,757.60 960,000.00 7,039,030.40 2,639,636.40 10,769,716.51 23,513,881.05 147,868,083.96 29,573,616.79 177,441,700.76

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD – ONS	AMT.	ROUTE 7 PROJECT ADD - ONS	AMT.
A. Construction	265,844,300.00	A. Construction	142,269,496.00
B. Locomotives		B. Locomotives	7 440 474 00
C. Contractors Mobilization/Demobilization (5% of A)	13,292,215.00	C. Contractors Mobilization/Demobilization (5% of A)	7,113,474.80
D. Testing and Operations Mobilization (2% of A)	5,316,886.00	D. Testing and Operations Mobilization (2% of A)	2,845,389.92
E. Owners Insurance (8% of A)	21,267,544.00	E. Owners Insurance (8% of A + 2% of B)	11,381,559.68
F. Mitigation (2% of A)	5,316,886.00	F. Mitigation (2% of A)	2,845,389.92
G. Right-of-Way	2,880,000.00	G. Right-of-Way	1,920,000.00
H. Force Account (8% of A)	21,267,544.00	H. Force Account (8% of A)	11,381,559.68
I. Employee Training (3% of A)	7,975,329.00	I. Employee Training (3% of A)	4,268,084.88
J. Construction Change Orders (12% of A & F, 2% of B)	32,539,342.32	J. Construction Change Orders (12% of A & F, 2% of B)	17,413,786.31
K. Project Services (25% of A & F, 1% of B, 10% of J)	71,044,230.73	K. Project Services (25% of A & F, 1% of B, 10% of J)	38,020,100.11
L. Subtotal (A thru K)	446,744,277.05	L. Subtotal (A thru K)	239,458,841.30
M. Project Reserve (20% of L)	89,348,855.41	M. Project Reserve (20% of L)	47,891,768.26
N. Total Cost in 1992 Dollars (L + M)	536,093,132.46	N. Total Cost in 1992 Dollars (L + M)	287,350,609.56
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 6 PROJECT ADD - ONS	AMT.	ROUTE 8 PROJECT ADD - ONS	AMT.
HOUTE OF HOUSE ADD - ONS	ANII.	HOUTE OT HOUSE TABLE - ONO	AWI.
A. Construction	124,285,922.00	A. Construction	55,670,174.00
A. Construction		A. Construction	
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	124,285,922.00	A. Construction B. Locomotives	55,670,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	124,285,922.00 6,214,296.10	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	55,670,174.00 2,783,508.70
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	124,285,922.00 6,214,296.10 2,485,718.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B)	55,670,174.00 2,783,508.70 1,113,403.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66 15,212,596.85	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66 15,212,596.85 33,214,169.80	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66 15,212,596.85 33,214,169.80 209,432,746.81	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66 15,212,596.85 33,214,169.80 209,432,746.81 41,886,549.36	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32 18,781,829.86
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66 15,212,596.85 33,214,169.80 209,432,746.81	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66 15,212,596.85 33,214,169.80 209,432,746.81 41,886,549.36	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32 18,781,829.86
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66 15,212,596.85 33,214,169.80 209,432,746.81 41,886,549.36	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32 18,781,829.86
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	124,285,922.00 6,214,296.10 2,485,718.44 9,942,873.76 2,485,718.44 1,920,000.00 9,942,873.76 3,728,577.66 15,212,596.85 33,214,169.80 209,432,746.81 41,886,549.36	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32 18,781,829.86

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 117,636,550.00 5,881,827.50 2,352,731.00 9,410,924.00 2,352,731.00 1,920,000.00 9,410,924.00 3,529,096.50 14,398,713.72 31,437,191.62 198,330,689.34 39,666,137.87 237,996,827.21	ROUTE 11 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right–of–Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 476,966,224.00 23,848,311.20 9,539,324.48 38,157,297.92 9,539,324.48 5,760,000.00 38,157,297.92 14,308,986.72 58,380,665.82 127,464,453.70 802,121,886.24 160,424,377.25 962,546,263.49
ROUTE 10 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right – of – Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 19,323,216.00 966,160.80 386,464.32 1,545,857.28 386,464.32 960,000.00 1,545,857.28 579,696.48 2,365,161.64 5,163,936.24 33,222,814.36 6,644,562.87 39,867,377.23	ROUTE 12 PROJECT ADD – ONS A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right–of–Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010	AMT. 367,055,726.00 18,352,786.30 7,341,114.52 29,364,458.08 7,341,114.52 3,840,000.00 29,364,458.08 11,011,671.78 44,927,620.86 98,091,972.22 616,690,922.36 123,338,184.47 740,029,106.83

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

4% 1992 thru 1995 5% 1995 thru 2000 6% 2001 thru 2010

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	387,309,044.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	19,365,452.20
D. Testing and Operations Mobilization (2% of A)	7,746,180.88
E. Owners Insurance (8% of A)	30,984,723.52
F. Mitigation (2% of A)	7,746,180.88
G. Right-of-Way	3,840,000.00
H. Force Account (8% of A)	30,984,723.52
I. Employee Training (3% of A)	11,619,271.32
J. Construction Change Orders (12% of A & F, 2% of B)	47,406,626.99
K. Project Services (25% of A & F, 1% of B, 10% of J)	103,504,468.92
L. Subtotal (A thru K)	650,506,672.22
M. Project Reserve (20% of L)	130,101,334.44
N. Total Cost in 1992 Dollars (L + M)	780,608,006.67
O. Annual Inflation:	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 1 PROJECT ADD – ONS	AMT.	ROUTE 3 PROJECT ADD – ONS	AMT.
A. Construction	288,034,526.00	A. Construction	60,245,032.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	14,401,726.30	C. Contractors Mobilization/Demobilization (5% of A)	3,012,251.60
D. Testing and Operations Mobilization (2% of A)	5,760,690.52	D. Testing and Operations Mobilization (2% of A)	1,204,900.64
E. Owners Insurance (8% of A)	23,042,762.08	E. Owners Insurance (8% of A)	4,819,602.56
F. Mitigation (2% of A)	5,760,690.52	F. Mitigation (2% of A)	1,204,900.64
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	23,042,762.08	H. Force Account (8% of A)	4,819,602.56
I. Employee Training (3% of A)	8,641,035.78	I. Employee Training (3% of A)	1,807,350.96
J. Construction Change Orders (12% of A & F, 2% of B)	35,255,425.98	J. Construction Change Orders (12% of A & F, 2% of B)	7,373,991.92
K. Project Services (25% of A & F, 1% of B, 10% of J)	76,974,346.73	K. Project Services (25% of A & F, 1% of B, 10% of J)	16,099,882.35
L. Subtotal (A thru K)	480,913,965.99	L. Subtotal (A thru K)	100,587,515.23
M. Project Reserve (20% of L)	96,182,793.20	M. Project Reserve (20% of L)	20,117,503.05
N. Total Cost in 1992 Dollars (L + M)	577,096,759.19	N. Total Cost in 1992 Dollars (L + M)	120,705,018.27
O. Annual Inflation:	577,555,755.15	O. Annual Inflation:	.20,, 00,0 ,0.2,
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
0/0 2001 tille 2010		0,0 2001 4114 2010	
		DOLLTE 4 DDG 1507 4DD G110	A A A T
ROUTE 2 PROJECT ADD – ONS	AMT.	ROUTE 4 PROJECT ADD – ONS	AMT.
ROUTE 2 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 44,533,320.00	A. Construction	37,950,888.00
A. Construction .		A. Construction	
A. Construction B. Locomotives	44,533,320.00	A. Construction B. Locomotives	37,950,888.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	44,533,320.00 2,226,666.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	37,950,888.00 1,897,544.40 759,017.76
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	44,533,320.00 2,226,666.00 890,666.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	37,950,888.00 1,897,544.40 759,017.76
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40 14,870,922.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64 12,672,864.13
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40 14,870,922.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64 12,672,864.13
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40 14,870,922.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64 12,672,864.13
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	44,533,320.00 2,226,666.00 890,666.40 3,562,665.60 890,666.40 3,562,665.60 1,335,999.60 5,450,878.37 11,901,084.44 74,354,612.40 14,870,922.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	37,950,888.00 1,897,544.40 759,017.76 3,036,071.04 759,017.76 3,036,071.04 1,138,526.64 4,645,188.69 10,141,995.31 63,364,320.64 12,672,864.13

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD – ONS	AMT.	ROUTE 7 PROJECT ADD – ONS	AMT.
A. Construction	116,987,364.00	A. Construction	33,794,624.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	5,849,368.20	C. Contractors Mobilization/Demobilization (5% of A)	1,689,731.20
D. Testing and Operations Mobilization (2% of A)	2,339,747.28	D. Testing and Operations Mobilization (2% of A)	675,892.48
E. Owners Insurance (8% of A)	9,358,989.12	E. Owners Insurance (8% of A + 2% of B)	2,703,569.92
F. Mitigation (2% of A)	2,339,747.28	F. Mitigation (2% of A)	675,892.48
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	9,358,989.12	H. Force Account (8% of A)	2,703,569.92
I. Employee Training (3% of A)	3,509,620.92	I. Employee Training (3% of A)	1,013,838.72
J. Construction Change Orders (12% of A & F, 2% of B)	14,319,253.35	J. Construction Change Orders (12% of A & F, 2% of B)	4,136,461.98
K. Project Services (25% of A & F, 1% of B, 10% of J)	31,263,703.16	K. Project Services (25% of A & F, 1% of B, 10% of J)	9,031,275.32
L. Subtotal (A thru K)	195,326,782.43	L. Subtotal (A thru K)	56,424,856.02
M. Project Reserve (20% of L)	39,065,356.49	M. Project Reserve (20% of L)	11,284,971.20
N. Total Cost in 1992 Dollars (L + M)	234,392,138.91	N. Total Cost in 1992 Dollars (L + M)	67,709,827.22
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
DOLLTE A DOCUMENT ADD. ONC.	****	DOUTE A DRO LEGT ADD. ONG	ANT
ROUTE 6 PROJECT ADD – ONS	AMT.	ROUTE 8 PROJECT ADD – ONS	AMT.
A. Construction	20,746,320.00	A. Construction	27,723,174.00
A. Construction B. Locomotives	20,746,320.00	A. Construction B. Locomotives	
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)		A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	20,746,320.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	27,723,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	20,746,320.00 1,037,316.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	27,723,174.00 1,386,158.70
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	20,746,320.00 1,037,316.00 414,926.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	27,723,174.00 1,386,158.70 554,463.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60 622,389.60	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60 622,389.60 2,539,349.57	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60 622,389.60 2,539,349.57 5,544,246.56	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60 622,389.60 2,539,349.57 5,544,246.56 34,638,885.72	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60 622,389.60 2,539,349.57 5,544,246.56 34,638,885.72 6,927,777.14	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24 9,257,544.05
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60 622,389.60 2,539,349.57 5,544,246.56 34,638,885.72 6,927,777.14	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24 9,257,544.05
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60 622,389.60 2,539,349.57 5,544,246.56 34,638,885.72 6,927,777.14	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24 9,257,544.05
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	20,746,320.00 1,037,316.00 414,926.40 1,659,705.60 414,926.40 1,659,705.60 622,389.60 2,539,349.57 5,544,246.56 34,638,885.72 6,927,777.14	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A + 2% of B) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	27,723,174.00 1,386,158.70 554,463.48 2,217,853.92 554,463.48 2,217,853.92 831,695.22 3,393,316.50 7,408,741.02 46,287,720.24 9,257,544.05

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 10,769,712.00	ROUTE 11 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 13,702,336.00
B. Locomotives	10,709,712.00	B. Locomotives	13,702,330.00
C. Contractors Mobilization/Demobilization (5% of A)	538,485.60	C. Contractors Mobilization/Demobilization (5% of A)	685,116.80
D. Testing and Operations Mobilization (2% of A)	215,394.24	D. Testing and Operations Mobilization (2% of A)	274,046.72
E. Owners Insurance (8% of A)	861,576.96	E. Owners Insurance (8% of A)	1,096,186.88
F. Mitigation (2% of A)	215,394.24	F. Mitigation (2% of A)	274,046.72
G. Right-of-Way	210,001.21	G. Right-of-Way	277,010.72
H. Force Account (8% of A)	861,576.96	H. Force Account (8% of A)	1,096,186.88
I. Employee Training (3% of A)	323,091.36	I. Employee Training (3% of A)	411,070.08
J. Construction Change Orders (12% of A & F, 2% of B)	1,318,212.75	J. Construction Change Orders (12% of A & F, 2% of B)	1,677,165.93
K. Project Services (25% of A & F, 1% of B, 10% of J)	2,878,097.83	K. Project Services (25% of A & F, 1% of B, 10% of J)	3,661,812.27
L. Subtotal (A thru K)	17,981,541.94	L. Subtotal (A thru K)	22,877,968.28
M. Project Reserve (20% of L)	3,596,308.39	M. Project Reserve (20% of L)	4,575,593.66
N. Total Cost in 1992 Dollars (L + M)	21,577,850.33	N. Total Cost in 1992 Dollars (L + M)	27,453,561.93
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
DOLLTE 40 DDO JECT ADD. ONG	AMT.	POLITE 12 PROJECT ADD ONG	AMT
ROUTE 10 PROJECT ADD – ONS	10,647,216.00	ROUTE 12 PROJECT ADD – ONS A. Construction	AMT.
A. Construction B. Locomotives	10,047,210.00	B. Locomotives	10,446,432.00
C. Contractors Mobilization/Demobilization (5% of A)	532,360.80	C. Contractors Mobilization/Demobilization (5% of A)	522,321.60
D. Testing and Operations Mobilization (2% of A)	212,944.32	D. Testing and Operations Mobilization (2% of A)	208,928.64
E. Owners Insurance (8% of A)	851,777.28	E. Owners Insurance (8% of A)	835,714.56
F. Mitigation (2% of A)	212,944.32	F. Mitigation (2% of A)	208,928.64
G. Right-of-Way	212,344.02	G. Right-of-Way	200,920.04
H. Force Account (8% of A)	851,777.28	H. Force Account (8% of A)	835,714.56
I. Employee Training (3% of A)	319,416.48	I. Employee Training (3% of A)	313,392.96
J. Construction Change Orders (12% of A & F, 2% of B)	1,303,219.24	J. Construction Change Orders (12% of A & F, 2% of B)	1,278,643.28
K. Project Services (25% of A & F, 1% of B, 10% of J)	2,845,362.00	K. Project Services (25% of A & F, 1% of B, 10% of J)	2,791,704.49
L. Subtotal (A thru K)	17,777,017.72	L. Subtotal (A thru K)	17,441,780.72
M. Project Reserve (20% of L)	3,555,403.54	M. Project Reserve (20% of L)	3,488,356.14
N. Total Cost in 1992 Dollars (L + M)	21,332,421.27	N. Total Cost in 1992 Dollars (L + M)	20,930,136.87
O. Annual Inflation:		O. Annual Inflation:	,,
4% 1992 thru 1995		4% 1992 thru 1995	
- 17 1			
5% 1995 thru 2000		5% 1995 thru 2000	
5% 1995 thru 2000 6% 2001 thru 2010			

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

6% 2001 thru 2010

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	0.00
B. Locomotives	*
C. Contractors Mobilization/Demobilization (5% of A)	0.00
D. Testing and Operations Mobilization (2% of A)	0.00
E. Owners Insurance (8% of A)	0.00
F. Mitigation (2% of A)	0.00
G. Right-of-Way	
H. Force Account (8% of A)	0.00
I. Employee Training (3% of A)	0.00
J. Construction Change Orders (12% of A & F, 2% of B)	0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00
L. Subtotal (A thru K)	0.00
M. Project Reserve (20% of L)	0.00
N. Total Cost in 1992 Dollars (L + M)	0.00
O. Annual Inflation:	
4% 1992 thru 1995	
5% 1995 thru 2000	

^{*}Locomotives, Shops and Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 1 PROJECT ADD - ONS	AMT.	ROUTE 3 PROJECT ADD – ONS A. Construction	AMT. 112,817,256.00
A. Construction	62,891,458.00	B. Locomotives	112,017,200.00
B. Locomotives	2 144 570 00	C. Contractors Mobilization/Demobilization (5% of A)	5,640,862.80
C. Contractors Mobilization/Demobilization (5% of A)	3,144,572.90	D. Testing and Operations Mobilization (2% of A)	2,256,345.12
D. Testing and Operations Mobilization (2% of A)	1,257,829.16	E. Owners Insurance (8% of A)	9,025,380.48
E. Owners Insurance (8% of A)	5,031,316.64		2,256,345.12
F. Mitigation (2% of A)	1,257,829.16	F. Mitigation (2% of A)	960,000.00
G. Right-of-Way	960,000.00	G. Right-of-Way	9,025,380.48
H. Force Account (8% of A)	5,031,316.64	H. Force Account (8% of A)	3,384,517.68
I. Employee Training (3% of A)	1,886,743.74	I. Employee Training (3% of A)	13,808,832.13
J. Construction Change Orders (12% of A & F, 2% of B)	7,697,914.46	J. Construction Change Orders (12% of A & F, 2% of B)	
K. Project Services (25% of A & F, 1% of B, 10% of J)	16,807,113.24	K. Project Services (25% of A & F, 1% of B, 10% of J)	30,149,283.49
L. Subtotal (A thru K)	105,966,093.94	L. Subtotal (A thru K)	189,324,203.31
M. Project Reserve (20% of L)	21,193,218.79	M. Project Reserve (20% of L)	37,864,840.66
N. Total Cost in 1992 Dollars (L + M)	127,159,312.72	N. Total Cost in 1992 Dollars (L + M)	227,189,043.97
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 2 PROJECT ADD - ONS	AMT.	ROUTE 4 PROJECT ADD - ONS	AMT.
A. Construction	94,127,320.00	A. Construction	87,987,880.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	4,706,366.00	C. Contractors Mobilization/Demobilization (5% of A)	4,399,394.00
D. Testing and Operations Mobilization (2% of A)	1,882,546.40	D. Testing and Operations Mobilization (2% of A)	1,759,757.60
E. Owners Insurance (8% of A)	7,530,185.60	E. Owners Insurance (8% of A)	7,039,030.40
F. Mitigation (2% of A)	1,882,546.40	F. Mitigation (2% of A)	1,759,757.60
G. Right-of-Way	960,000.00	G. Right-of-Way	960,000.00
H. Force Account (8% of A)	7,530,185.60	H. Force Account (8% of A)	7,039,030.40
I. Employee Training (3% of A)	2,823,819.60	I. Employee Training (3% of A)	2,639,636.40
J. Construction Change Orders (12% of A & F, 2% of B)	11,521,183.97	J. Construction Change Orders (12% of A & F, 2% of B)	10,769,716.51
K. Project Services (25% of A & F, 1% of B, 10% of J)	25,154,585.00	K. Project Services (25% of A & F, 1% of B, 10% of J)	23,513,881.05
L. Subtotal (A thru K)	158,118,738.56	L. Subtotal (A thru K)	147,868,083.96
M. Project Reserve (20% of L)	31,623,747.71	M. Project Reserve (20% of L)	29,573,616.79
N. Total Cost in 1992 Dollars (L + M)	189,742,486.28	N. Total Cost in 1992 Dollars (L + M)	177,441,700.76
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	*

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 251,541,820.00	ROUTE 7 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 129,357,720.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	12,577,091.00	C. Contractors Mobilization/Demobilization (5% of A)	6,467,886.00
D. Testing and Operations Mobilization (2% of A)	5,030,836.40	D. Testing and Operations Mobilization (2% of A)	2,587,154.40
E. Owners Insurance (8% of A)	20,123,345.60	E. Owners Insurance (8% of A)	10,348,617.60
F. Mitigation (2% of A)	5,030,836.40	F. Mitigation (2% of A)	2,587,154.40
G. Right-of-Way	1,920,000.00	G. Right-of-Way	960,000.00
H. Force Account (8% of A)	20,123,345.60	H. Force Account (8% of A)	10,348,617.60
I. Employee Training (3% of A)	7,546,254.60	I. Employee Training (3% of A)	3,880,731.60
J. Construction Change Orders (12% of A & F, 2% of B)	30,788,718.77	J. Construction Change Orders (12% of A & F, 2% of B)	15,833,384.93
K. Project Services (25% of A & F, 1% of B, 10% of J)	67,222,035.98	K. Project Services (25% of A & F, 1% of B, 10% of J)	34,569,557.09
L. Subtotal (A thru K)	421,904,284.34	L. Subtotal (A thru K)	216,940,823.62
M. Project Reserve (20% of L)	84,380,856.87	M. Project Reserve (20% of L)	43,388,164.72
N. Total Cost in 1992 Dollars (L + M)	506,285,141.21	N. Total Cost in 1992 Dollars (L + M)	260,328,988.34
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 6 PROJECT ADD – ONS	AMT.	ROUTE 8 PROJECT ADD – ONS	AMT.
A. Construction	<u>AMT.</u> 111,206,602.00	A. Construction	<u>AMT.</u> 55,670,174.00
A. Construction B. Locomotives			
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)		A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	111,206,602.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	55,670,174.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	111,206,602.00 5,560,330.10	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A)	55,670,174.00 2,783,508.70
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	111,206,602.00 5,560,330.10 2,224,132.04	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	55,670,174.00 2,783,508.70 1,113,403.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06 13,611,688.08	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06 13,611,688.08 29,718,852.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06 13,611,688.08 29,718,852.32 186,634,990.96	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06 13,611,688.08 29,718,852.32 186,634,990.96 37,326,998.19	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32 18,781,829.86
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06 13,611,688.08 29,718,852.32 186,634,990.96	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06 13,611,688.08 29,718,852.32 186,634,990.96 37,326,998.19	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32 18,781,829.86
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06 13,611,688.08 29,718,852.32 186,634,990.96 37,326,998.19	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32 18,781,829.86
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	5,560,330.10 2,224,132.04 8,896,528.16 2,224,132.04 960,000.00 8,896,528.16 3,336,198.06 13,611,688.08 29,718,852.32 186,634,990.96 37,326,998.19	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	55,670,174.00 2,783,508.70 1,113,403.48 4,453,613.92 1,113,403.48 960,000.00 4,453,613.92 1,670,105.22 6,814,029.30 14,877,297.30 93,909,149.32 18,781,829.86

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD - ONS	AMT.	ROUTE 11 PROJECT ADD - ONS	AMT.
A. Construction	105,134,534.00	A. Construction	283,047,360.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	5,256,726.70	C. Contractors Mobilization/Demobilization (5% of A)	14,152,368.00
D. Testing and Operations Mobilization (2% of A)	2,102,690.68	D. Testing and Operations Mobilization (2% of A)	5,660,947.20
E. Owners Insurance (8% of A)	8,410,762.72	E. Owners Insurance (8% of A)	22,643,788.80
F. Mitigation (2% of A)	2,102,690.68	F. Mitigation (2% of A)	5,660,947.20
G. Right-of-Way	960,000.00	G. Right-of-Way	960,000.00
H. Force Account (8% of A)	8,410,762.72	H. Force Account (8% of A)	22,643,788.80
I. Employee Training (3% of A)	3,154,036.02	I. Employee Training (3% of A)	8,491,420.80
J. Construction Change Orders (12% of A & F, 2% of B)	12,868,466.96	J. Construction Change Orders (12% of A & F, 2% of B)	34,644,996.86
K. Project Services (25% of A & F, 1% of B, 10% of J)	28,096,152.87	K. Project Services (25% of A & F, 1% of B, 10% of J)	75,641,576.49
L. Subtotal (A thru K)	176,496,823.35	L. Subtotal (A thru K)	473,547,194.15
M. Project Reserve (20% of L)	35,299,364.67	M. Project Reserve (20% of L)	94,709,438.83
N. Total Cost in 1992 Dollars (L + M)	211,796,188.02	N. Total Cost in 1992 Dollars (L + M)	568,256,632.98
O. Annual Inflation:		O. Annual Inflation:	,
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
070 E001 and E010			
ROUTE 10 PROJECT ADD - ONS	AMT.	ROUTE 12 PROJECT ADD - ONS	AMT.
A. Construction	19,323,216.00	A. Construction	138,418,390.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	966,160.80	C. Contractors Mobilization/Demobilization (5% of A)	6,920,919.50
D. Testing and Operations Mobilization (2% of A)	386,464.32	D. Testing and Operations Mobilization (2% of A)	2,768,367.80
E. Owners Insurance (8% of A)	1,545,857.28	E. Owners Insurance (8% of A)	11,073,471.20
F. Mitigation (2% of A)	386,464.32	F. Mitigation (2% of A)	2,768,367.80
G. Right-of-Way	960,000.00	G. Right-of-Way	1,920,000.00
H. Force Account (8% of A)	1,545,857.28	H. Force Account (8% of A)	11,073,471.20
I. Employee Training (3% of A)	579,696.48	I. Employee Training (3% of A)	4,152,551.70
J. Construction Change Orders (12% of A & F, 2% of B)	2,365,161.64	J. Construction Change Orders (12% of A & F, 2% of B)	16,942,410.94
K. Project Services (25% of A & F, 1% of B, 10% of J)	5,163,936.24	K. Project Services (25% of A & F, 1% of B, 10% of J)	36,990,930.54
L. Subtotal (A thru K)	33,222,814.36	L. Subtotal (A thru K)	233,028,880.68
M. Project Reserve (20% of L)	6,644,562.87	M. Project Reserve (20% of L)	46,605,776.14
N. Total Cost in 1992 Dollars (L + M)	39,867,377.23	N. Total Cost in 1992 Dollars (L + M)	279,634,656.82
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

6% 2001 thru 2010

ROUTE 13 PROJECT ADD – ONS	AMT.
A. Construction	125,878,448.00
B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	6,293,922.40
D. Testing and Operations Mobilization (2% of A)	2,517,568.96
E. Owners Insurance (8% of A)	10,070,275.84
F. Mitigation (2% of A)	2,517,568.96
G. Right-of-Way	1,920,000.00
H. Force Account (8% of A)	10,070,275.84
I. Employee Training (3% of A)	3,776,353.44
J. Construction Change Orders (12% of A & F, 2% of B)	15,407,522.04
K. Project Services (25% of A & F, 1% of B, 10% of J)	33,639,756.44
L. Subtotal (A thru K)	212,091,691.92
M. Project Reserve (20% of L)	42,418,338.38
N. Total Cost in 1992 Dollars (L + M)	254,510,030.30
O. Annual Inflation:	
4% 1992 thru 1995	
5% 1995 thru 2000	

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

		DOUTE A DROUGOT ADD. ONO	AMT.
ROUTE 1 PROJECT ADD – ONS	<u>AMT.</u>	ROUTE 3 PROJECT ADD – ONS	60,245,032.00
A. Construction	29,143,458.00	A. Construction	60,245,032.00
B. Locomotives		B. Locomotives	2 012 251 60
C. Contractors Mobilization/Demobilization (5% of A)	1,457,172.90	C. Contractors Mobilization/Demobilization (5% of A)	3,012,251.60 1,204,900.64
D. Testing and Operations Mobilization (2% of A)	582,869.16	D. Testing and Operations Mobilization (2% of A)	
E. Owners Insurance (8% of A)	2,331,476.64	E. Owners Insurance (8% of A)	4,819,602.56
F. Mitigation (2% of A)	582,86 9.16	F. Mitigation (2% of A)	1,204,900.64
G. Right-of-Way		G. Right-of-Way	4 840 600 56
H. Force Account (8% of A)	2,331,476.64	H. Force Account (8% of A)	4,819,602.56
I. Employee Training (3% of A)	874,303.74	I. Employee Training (3% of A)	1,807,350.96
J. Construction Change Orders (12% of A & F, 2% of B)	3,567,159.26	J. Construction Change Orders (12% of A & F, 2% of B)	7,373,991.92
K. Project Services (25% of A & F, 1% of B, 10% of J)	7,788,297.72	K. Project Services (25% of A & F, 1% of B, 10% of J)	16,099,882.35
L. Subtotal (A thru K)	48,659,083.22	L. Subtotal (A thru K)	100,587,515.23
M. Project Reserve (20% of L)	9,731,816.64	M. Project Reserve (20% of L)	20,117,503.05
N. Total Cost in 1992 Dollars (L + M)	58,390,899.86	N. Total Cost in 1992 Dollars (L + M)	120,705,018.27
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
DOUTE A DROJECT ADD. ONC	AMT.	ROUTE 4 PROJECT ADD-ONS	AMT.
ROUTE 2 PROJECT ADD – ONS	44,533,320.00	A. Construction	37,950,888.00
A. Construction	44,333,320.00	B. Locomotives	0.,000,000.00
B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	2,226,666.00	C. Contractors Mobilization/Demobilization (5% of A)	1,897,544.40
D. Testing and Operations Mobilization (2% of A)	890,666.40	D. Testing and Operations Mobilization (2% of A)	759,017.76
E. Owners Insurance (8% of A)	3,562,665.60	E. Owners Insurance (8% of A)	3,036,071.04
	890,666.40	F. Mitigation (2% of A)	759,017.76
F. Mitigation (2% of A)	030,000.40	G. Right-of-Way	, , , , , , , , , , , , , , , , , , , ,
G. Right-of-Way H. Force Account (8% of A)	3,562,665.60	H. Force Account (8% of A)	3,036,071.04
I. Employee Training (3% of A)	1,335,999.60	I. Employee Training (3% of A)	1,138,526.64
J. Construction Change Orders (12% of A & F, 2% of B)	5,450,878.37	J. Construction Change Orders (12% of A & F, 2% of B)	4,645,188.69
K. Project Services (25% of A & F, 1% of B, 10% of J)	11,901,084.44	K. Project Services (25% of A & F, 1% of B, 10% of J)	10,141,995.31
	74,354,612.40	L. Subtotal (A thru K)	63,364,320.64
L. Subtotal (A thru K)	14,870,922.48	M. Project Reserve (20% of L)	12,672,864.13
M. Project Reserve (20% of L)	89,225,534.89	N. Total Cost in 1992 Dollars (L + M)	76,037,184.77
N. Total Cost in 1992 Dollars (L + M)	03,223,304.03	O. Annual Inflation:	70,007,104.77
O Annual Inflations			
O. Annual Inflation:			
4% 1992 thru 1995		4% 1992 thru 1995	

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 5 PROJECT ADD – ONS A. Construction B. Locomotives	AMT. 116,638,884.00	ROUTE 7 PROJECT ADD – ONS A. Construction B. Locomotives	<u>AMT.</u> 27,449,648.00
C. Contractors Mobilization/Demobilization (5% of A)	5,831,944.20	C. Contractors Mobilization/Demobilization (5% of A)	1,372,482.40
D. Testing and Operations Mobilization (2% of A)	2,332,777.68	D. Testing and Operations Mobilization (2% of A)	548,992.96
E. Owners Insurance (8% of A)	9,331,110.72	E. Owners Insurance (8% of A)	2,195,971.84
F. Mitigation (2% of A)	2,332,777.68	F. Mitigation (2% of A)	548,992.96
G. Right-of-Way		G. Right-of-Way	
H. Force Account (8% of A)	9,331,110.72	H. Force Account (8% of A)	2,195,971.84
I. Employee Training (3% of A)	3,499,166.52	I. Employee Training (3% of A)	823,489.44
J. Construction Change Orders (12% of A & F, 2% of B)	14,276,599.40	J. Construction Change Orders (12% of A & F, 2% of B)	3,359,836.92
K. Project Services (25% of A & F, 1% of B, 10% of J)	31,170,575.36	K. Project Services (25% of A & F, 1% of B, 10% of J)	7,335,643.93
L. Subtotal (A thru K)	194,744,946.28	L. Subtotal (A thru K)	45,831,030.29
M. Project Reserve (20% of L)	38,948,989.26	M. Project Reserve (20% of L)	9,166,206.06
N. Total Cost in 1992 Dollars (L + M)	233,693,935.54	N. Total Cost in 1992 Dollars (L + M)	54,997,236.34
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
ROUTE 6 PROJECT ADD – ONS	AMT.	ROUTE 8 PROJECT ADD - ONS	AMT.
A. Construction	20,587,920.00	A. Construction	27,723,174.00
B. Locomotives	20,007,020.00	B. Locomotives	27,720,174.00
C. Contractors Mobilization/Demobilization (5% of A)	1,029,396.00	C. Contractors Mobilization/Demobilization (5% of A)	1,386,158.70
D. Testing and Operations Mobilization (2% of A)	411,758.40	D. Testing and Operations Mobilization (2% of A)	554,463.48
E. Owners Insurance (8% of A)	1,647,033.60	E. Owners Insurance (8% of A)	2,217,853.92
F. Mitigation (2% of A)	411,758.40	F. Mitigation (2% of A)	554,463.48
G. Right-of-Way	111,700.10	G. Right-of-Way	554,455.45
H. Force Account (8% of A)	1,647,033.60	H. Force Account (8% of A)	2,217,853.92
I. Employee Training (3% of A)	617,637.60	I. Employee Training (3% of A)	831,695.22
J. Construction Change Orders (12% of A & F, 2% of B)	2,519,961.41	J. Construction Change Orders (12% of A & F, 2% of B)	3,393,316.50
K. Project Services (25% of A & F, 1% of B, 10% of J)	5,501,915.74	K. Project Services (25% of A & F, 1% of B, 10% of J)	7,408,741.02
L. Subtotal (A thru K)		L. Subtotal (A thru K)	46,287,720.24
	34.3/4.414./5		
	34,374,414.75 6,874,882.95		
M. Project Reserve (20% of L)	6,874,882.95	M. Project Reserve (20% of L)	9,257,544.05
M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)			
M. Project Reserve (20% of L)	6,874,882.95	M. Project Reserve (20% of L)N. Total Cost in 1992 Dollars (L + M)	9,257,544.05
 M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 	6,874,882.95	M. Project Reserve (20% of L)N. Total Cost in 1992 Dollars (L + M)O. Annual Inflation:	9,257,544.05
M. Project Reserve (20% of L)N. Total Cost in 1992 Dollars (L + M)O. Annual Inflation:	6,874,882.95	 M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995 	9,257,544.05

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

ROUTE 9 PROJECT ADD – ONS	AMT.	ROUTE 11 PROJECT ADD - ONS	AMT.
A. Construction	10,674,672.00	A. Construction	0.00
B. Locomotives		B. Locomotives	
C. Contractors Mobilization/Demobilization (5% of A)	533,733.60	C. Contractors Mobilization/Demobilization (5% of A)	0.00
D. Testing and Operations Mobilization (2% of A)	213,493.44	D. Testing and Operations Mobilization (2% of A)	0.00
E. Owners Insurance (8% of A)	853,973.76	E. Owners Insurance (8% of A)	0.00
F. Mitigation (2% of A)	213,493.44	F. Mitigation (2% of A)	0.00
G. Right-of-Way	210,140111	G. Right-of-Way	
H. Force Account (8% of A)	853,973.76	H. Force Account (8% of A)	0.00
I. Employee Training (3% of A)	320,240.16	I. Employee Training (3% of A)	0.00
J. Construction Change Orders (12% of A & F, 2% of B)	1,306,579.85	J. Construction Change Orders (12% of A & F, 2% of B)	0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)	2,852,699.35	K. Project Services (25% of A & F, 1% of B, 10% of J)	0.00
L. Subtotal (A thru K)	17,822,859.36	L. Subtotal (A thru K)	0.00
M. Project Reserve (20% of L)	3,564,571.87	M. Project Reserve (20% of L)	0.00
N. Total Cost in 1992 Dollars (L + M)	21,387,431.23	N. Total Cost in 1992 Dollars (L + M)	0.00
O. Annual Inflation:		O. Annual Inflation:	
4% 1992 thru 1995		4% 1992 thru 1995	
5% 1995 thru 2000		5% 1995 thru 2000	
6% 2001 thru 2010		6% 2001 thru 2010	
0/0 2001 1111 2010			
ROUTE 10 PROJECT ADD - ONS	AMT.	ROUTE 12 PROJECT ADD - ONS	AMT.
ROUTE 10 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 10,647,216.00	ROUTE 12 PROJECT ADD – ONS A. Construction	<u>AMT.</u> 160,000.00
		A. Construction B. Locomotives	160,000.00
A. Construction		A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	160,000.00 8,000.00
A. Construction B. Locomotives	10,647,216.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	8,000.00 3,200.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	10,647,216.00 532,360.80	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A)	8,000.00 3,200.00 12,800.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A)	10,647,216.00 532,360.80 212,944.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	8,000.00 3,200.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	10,647,216.00 532,360.80 212,944.32 851,777.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00
 A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) 	10,647,216.00 532,360.80 212,944.32 851,777.28	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A)	8,000.00 3,200.00 12,800.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A)	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A)	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32 851,777.28 319,416.48	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00 19,584.00 42,758.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B)	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32 851,777.28 319,416.48 1,303,219.24	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00 19,584.00 42,758.40 267,142.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J)	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32 851,777.28 319,416.48 1,303,219.24 2,845,362.00	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00 19,584.00 42,758.40 267,142.40 53,428.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K)	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32 851,777.28 319,416.48 1,303,219.24 2,845,362.00 17,777,017.72	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00 19,584.00 42,758.40 267,142.40
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32 851,777.28 319,416.48 1,303,219.24 2,845,362.00 17,777,017.72 3,555,403.54	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L)	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00 19,584.00 42,758.40 267,142.40 53,428.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32 851,777.28 319,416.48 1,303,219.24 2,845,362.00 17,777,017.72 3,555,403.54	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M)	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00 19,584.00 42,758.40 267,142.40 53,428.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right—of—Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32 851,777.28 319,416.48 1,303,219.24 2,845,362.00 17,777,017.72 3,555,403.54	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation:	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00 19,584.00 42,758.40 267,142.40 53,428.48
A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	10,647,216.00 532,360.80 212,944.32 851,777.28 212,944.32 851,777.28 319,416.48 1,303,219.24 2,845,362.00 17,777,017.72 3,555,403.54	A. Construction B. Locomotives C. Contractors Mobilization/Demobilization (5% of A) D. Testing and Operations Mobilization (2% of A) E. Owners Insurance (8% of A) F. Mitigation (2% of A) G. Right-of-Way H. Force Account (8% of A) I. Employee Training (3% of A) J. Construction Change Orders (12% of A & F, 2% of B) K. Project Services (25% of A & F, 1% of B, 10% of J) L. Subtotal (A thru K) M. Project Reserve (20% of L) N. Total Cost in 1992 Dollars (L + M) O. Annual Inflation: 4% 1992 thru 1995	160,000.00 8,000.00 3,200.00 12,800.00 3,200.00 12,800.00 4,800.00 19,584.00 42,758.40 267,142.40 53,428.48

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

6% 2001 thru 2010

ROUTE 13 PROJECT ADD – ONS	AMT.	
A. Construction		0.00
B. Locomotives		
C. Contractors Mobilization/Demobilization (5% of A)		0.00
D. Testing and Operations Mobilization (2% of A)		0.00
E. Owners Insurance (8% of A)		0.00
F. Mitigation (2% of A)		0.00
G. Right-of-Way		
H. Force Account (8% of A)		0.00
I. Employee Training (3% of A)		0.00
J. Construction Change Orders (12% of A & F, 2% of B)		0.00
K. Project Services (25% of A & F, 1% of B, 10% of J)		0.00
L. Subtotal (A thru K)		0.00
M. Project Reserve (20% of L)		0.00
N. Total Cost in 1992 Dollars (L + M)		0.00
O. Annual Inflation:		
4% 1992 thru 1995		
5% 1995 thru 2000		

^{*}Locomotives, Shops & Ancillary Fac., Locomotive Change Fac., and Control Center not included

	<u>Units</u>	Unit Costs	#1 Quantity	Cost	#2 Quantity	Cost	#3 Quantity	Cost	Quantity #4	Cost	Quantity	₹5 <u>Cost</u>
Stabilize Track for Electrification Single Track	T.F.	6	296,208	1,777,248	422,400	2,534,400	434,016	2,604,096	327,360	1,964,160	1,294,656	7,767,936
Overhead Utility Relocations	L.S.	16,000	10	160,000	37	592,000	16	256,000	16	256,000	49	784,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right - of - Way Acquisition	Ac.	800,000	0	0	0	0	. 0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	, 0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Change Facilities	L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	24	2,400,000	78	7,800,000	33	3,300,000	34	3,400,000	101	10,100,000
Communications SCADA (Supervisory Control)	R.F.	30	188,496	5,654,880	299,904	8,997,120	250,800	7,524,000	184,272	5,528,160	705,936	21,178,080

	Units	Unit Costs	Quantity	Cost	# Quantity	2 Cost	Quantity	Eost Cost	# Quantity	Cost	Quantity #	Cost
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance							`					
Improvements	L.S.	600,000	0	0	0	0	1	600,000	0	0	2	1,200,000
Improvements	L.S.	700,000	1	700,000	0	0	0	0	1	700,000	0	0
	L.S.	1,000,000	0	0	0	0	0	0	0	0	0	0
Track Lowering Single Track (12"Av)	T.F.	40	54,000	2,160,000	7,000	280,000	1,000	40,000	6,000	240,000	95,000	3,800,000
Tunnel Modificatio	ns T.F.	500	0	0	0	0	0	0	0	0	0	0
Structural Mod.	R.F.	3,000	0	0	0	0	8,710	26,130,000	7,000	21,000,000	0	0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	296,206 0	16,291,330 0	442,360 0	24,329,800 0	426,912 0	23,480,160 0	326,192 0	17,940,560 0	1,300,992 504,892	71,554,560 3,534,244
TOTAL COST				29,143,458		44,533,320		63,934,256		51,028,880		119,918,820

	Units	Unit Costs	#6 Quantity	Cost	Quantity #	7 Cost	Quantity #3	8 Cost	Quantity #	Cost	# Quantity	10 Cost
Stabilize Track for Electrification Single Track	T.F.	6	540,672	3,244,032	601,920	3,611,520	236,544	1,419,264	435,600	2,613,600	67,056	402,336
Overhead Utility Relocations	L.S.	16,000	23	368,000	26	416,000	30	480,000	34	544,000	21	336,000
Underground Utility Relocations	L.F.	0	0	0	0	0	0	0	0	0	0	0
Right-of-Way Acquisition	Ac.	800,000	0	0	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs	•	0.20	0	0	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0	0	0	0
Locomotive Change Facilities	L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0	0	0
Electric Locomotives	L.S.		0	0	0	0	0	0	0	0	0	0
Passenger	EA	5,250,000	0	ő	Ö	0	0	0	Ö	0	ō	0
Freight	EA	4,000,000	0	0	0	0	0	0	0	0	0	0
Crossing Warning Systems	EA	100,000	51	5,100,000	54	5,400,000	61	6,100,000	71	7,100,000	42	4,200,000
Communications SCADA (Supervisor Control)	Y R.F.	30	313,104	9,393,120	326,304	9,789,120	206,448	6,193,440	278,784	8,363,520	63,360	1,900,800

				#6	#7	7		#8	4	9	4	#10	
	Unit	s Unit Costs	Quantity	#6 Cost	Quantity #	Cost	Quantity	Cost	Quantity "	Cost	Quantity "	Cost	
	Unit	S Onit Costs	Quantity	Oust	Quantity	<u>005t</u>	Quantity						
Control Cen	nter L.S.	10,000,000	0	0	0	0	0	0	0	0	0	0	
Overhead B													
(Including Ap	mprovements												
Vertical Clear													
Improvement		600,000	0	0	0	0		0	0	0	0	0	
	L.S.	700,000	1	700,000	1	700,000		0	1	700,000	0	0	
	L.S.	1,000,000	0	0	0	0	0	0	0	0	0	0	
Total Laure													
Track Lower Single Track		40	33,000	1,320,000	28,000	1,120,000	13,000	520,000	28,000	1,120,000	3,000	120,000	
olligic Hack	(1271)												
Tunnel Mod									0	0		0	
Track Loweri			0		0	0		0		0	0	0	
Structural Mo	od. R.F.	3,000	0	Ü	U	Ü	0	O	O	O	Ü		
Signals (Wa	avside)												
Phase Sel &		55	571,190	31,415,450	608,256	33,454,080	236,554	13,010,470		23,668,150	67,056	3,688,080	
Cab Signals		7	0	0	0	0	0	0	70,752	495,264	0	0	
TOTAL COO	. T			51,540,602		54,490,720		27,723,174		44,604,534		10,647,216	
TOTAL COS	31			01,040,002		0.,.50,.20							

	<u>Units</u>	Unit Costs	#11 Quantity	Cost	Quantity	£12 <u>Cost</u>	# Quantity	13 Cost	TOTAL QUANTITY	TOTAL COST
Stabilize Track for Electrification Single Track	T.F.	6	63,360	380,160	628,320	3,769,920	589,248	3,535,488	5,937,360	35,624,160
Overhead Utility Relocations	L.S.	16,000	3	48,000	33	528,000	30	480,000	328	5,248,000
Underground Utility Relocations	L.F.	0	. 0	0	0	0	0	0	0	0
Right – of – Way Acquisition	Ac.	800,000	0	0	0	0	0	0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	0	0	0	0	0	0	0	0
Site Demolition	C.Y.	80	0	0	0	0	0	0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000	0	0	0	0	0	0	0 .	0
Locomotive Change Facilities	L.S.	4,000,000 / 6,000,000	0	0	0	0	0	0	0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000	0 0	0 0 0	0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0
Crossing Warning Systems	EA	100,000	7	700,000	70	7,000,000	67	6,700,000	693	69,300,000
Communications SCADA (Supervisor Control)	ry R.F.	30	23,760	712,800	360,624	10,818,720	352,176	10,565,280	3,553,968	106,619,040

	<u>Units</u>	Unit Costs	Quantity	#11 Cost	Quantity	₹12 <u>Cost</u>	# Quantity	Cost	TOTAL QUANTIT	Y TOTAL COST
Control Center	L.S.	10,000,000	0	0	0	0	0	0	0	0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance										
Improvements	L.S.	600,000	0	0	0	0	0	0	3	1,800,000
	L.S.	700,000	0	0	1	700,000	1	700,000	7	
	L.S.	1,000,000	0	0	0	0	0	0	0	
Track Lowering Single Track (12"Av)	T.F.	40	44,000	1,760,000	49,000	1,960,000	48,000	1,920,000	409,000	16,360,000
Tunnel Modificatio	ns T.F.	500	0	0	0	0	0	0	0	0
Track Lowering Structural Mod.	R.F.	3,000	0	0	0	0	0	0	15,710	47,130,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F.	55 7	58,080 0	3,194,400 0	623,050 0	34,267,750 0	583,976 0	32,118,680 0	5,971,154 575,644	328,413,470 4,029,508
TOTAL COST				6,795,360		59,044,390		56,019,448	16,463,867	614,524,178

	Units	Unit Costs	#1 Quantity	Cost	#2 Quantity	Cost	#3 Quantity	Cost	#4 Quantity	Cost	#5 Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	27,456	164,736	3,168	19,008	2,112	12,672	67,056	402,336	33,792	202,752
Overhead Utility Relocations	L.S.	16,000		0		0		0		0	3	48,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0		0		0		0	7	700,000

Communications
SCADA (Supervisory

	<u>Units</u>	Unit Costs	#1 Quantity	Cost	#2 Quantity	Cost	#3 Quantity	Cost	#4 Quantity	Cost	#5 Quantity	<u>Cost</u>
Control)	R.F.	30	3,168	95,040	1,584	47,520	1,056	31,680	61,248	1,837,440	13,200	396,000
Control Center	L.S.	10,000,000		0		0		. 0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		0		0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0		0		0		0		0
Tunnel Modification Track Lowering Structural Mod. Signals (Wayside)	<u>ns</u> T.F. R.F.	500 3,000		0		0		0		0		0
Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	54,912	3,020,160 0	6,232	342,760 0	2,112	116,160 0	67,056	3,688,080 0	28,512	1,568,160 0
TOTAL COST				3,279,936		409,288		160,512		5,927,856		2,914,912

	Units	Unit Costs	#0 Quantity	6 Cost	#7 Quantity	Cost	#8 Quantity	Cost	# Quantity	9 Cost	Quantity	£10 Cost
Stabilize Track for Electrification Single Track	T.F.	6	130,944	785,664	6,336	38,016			0 151,536	909,216	12,672	76,032
Overhead Utility Relocations	L.S.	16,000	13	208,000	1	16,000			0 20	320,000	0	0
Underground Utility Relocations	L.F.	0		0		0			0	0		0
Right – of – Way Acquisition	Ac.	800,000		0		0			0	0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0			0	0		0
Site Demolition	C.Y.	80		0		0			0	0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0			0	0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0			0	0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0			0 0 0	0 0		0 0 0
Crossing Warning Systems	EA	100,000	27	2,700,000	3	300,000			0 41	4,100,000	1	100,000

Communications
SCADA (Supervisory

	Units	Unit Costs	#6 Quantity	Cost	#7	Cost	#8 Quantity	B Cost		# Quantity	9 Cost	#1 Quantity	Cost
Control)	R.F.	30	90,816	2,724,480	6,336	190,080			0	122,496	3,674,880	6,336	190,080
Control Center	L.S.	10,000,000		0		0			0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		0		0			0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0		0			0	7,000	280,000		0
Tunnel Modificatio Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		0		0			0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	130,944	7,201,920 0		348,480 0			0	146,256	8,044,080 0	12,672	696,960 0
TOTAL COST				13,620,064		892,576			0		17,328,176		1,063,072

	Units	Unit Costs	Quantity	#11 <u>Cost</u>		Quantity	#12 <u>Cost</u>	# Quantity	13 Cost	Quantity	#14 Cost	Quantity	#15 <u>Cost</u>	
Stabilize Track for Electrification Single Track	T.F.	6			0	122,496	734,976	161,568	969,408	77,088	462,528	191,136	1,146,816	
Overhead Utility Relocations	L.S.	16,000			0	4	64,000	12	192,000	3	48,000	9	144,000	
Underground Utility Relocations	L.F.	0			0		0		0		0		0	
Right-of-Way Acquisition	Ac.	800,000			0		0		0		0		0	
Relocation Costs, Legal Fees, Other ROW Costs		0.20			0		0		0		0		0	
Site Demolition	C.Y.	80			0		0		0		0		0	
Shops & Ancillary Facilities	L.S.	40,000,000			0		0		0		0		0	
Locomotive Change Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000			0		0		0		0		0	
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000			0 0 0		0 0 0		0 0 0		0 0		0 0 0	
Crossing Warning Systems	EA	100,000			0	8	800,000	25	2,500,000	6	600,000	18	1,800,000	
Communications														

Communications SCADA (Supervisory

			#1			#1			13		14		15	
	<u>Units</u>	Unit Costs	Quantity	Cost	Q	uantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Control)	R.F.	30			0	48,048	1,441,440	125,136	3,754,080	38,544	1,156,320	153,120	4,593,600	
Control Center	L.S.	10,000,000			0		0		0		0		0	
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance	es)													
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000			0		0	1	700,000 0		0	1	600,000	
Track Lowering Single Track (12"Av)	T.F.	40			0		0	6,000	240,000		0	1,000	40,000	
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000			0		0	0 7,000	0 21,000,000		0	0 8,710	0 26,130,000	
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7			0	96,096	5,285,280 0	156,280	8,595,400 0	70,088	3,854,840 0	186,912	10,280,160 0	
TOTAL COST					0		8,325,696		37,950,888		6,121,688		44,734,576	

			#1	6		#	17	#	18	#	19	#	20
	Units	Unit Costs	Quantity	Cost	Q	uantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6			0	54,912	329,472	13,728	82,368	80,256	481,536	141,504	849,024
Overhead Utility Relocations	L.S.	16,000			0		0		0	1	16,000	5	80,000
Underground Utility Relocations	L.F.	0			0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000			0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs	•	0.20			0		0		0		0		0
Site Demolition	C.Y.	80			0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000			0		0		0		0		0
Locomotive Chang Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000			0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000			0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000			0		0		0	2	200,000	11	1,100,000
Communications SCADA (Superviso	ry												

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			#1	16		#1	7	#	18	#1	9	#	20	
	Units	Unit Costs	Quantity	Cost		Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Control)	R.F.	30			0	16,896	506,880	6,864	205,920	40,128	1,203,840	68,112	2,043,3	360
Control Center	L.S.	10,000,000			0		0		0		0			0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance									*					
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000			0	*	0		0		0			0
Track Lowering Single Track (12"Av)	T.F.	40			0	12,000	480,000	4,000	160,000		0			0
Tunnel Modificatio		500			0	*	0		0		0			0
Track Lowering Structural Mod.	T.F. R.F.	500 3,000			0		0		0		0			0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7			0	33,792	1,858,560 0	13,728	755,040 0	80,256	4,414,080 0	141,504	7,782,7	720 0
TOTAL COST					0		3,174,912		1,203,328		6,315,456		11,855,1	04

Communications SCADA (Supervisory

	Units	Unit Costs	# Quantity	21 Cost	# Quantity	22 Cost	#2 Quantity	23 Cost	# Quantity	24 Cost	Quantity	#25 Cost
Stabilize Track for Electrification Single Track	T.F.	6	86,064	516,384	70,752	424,512	226,512	1,359,072	334,224	2,005,344	68,112	408,672
Overhead Utility Relocations	L.S.	16,000	8	128,000	7	112,000	3	48,000	14	224,000	8	128,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0	*	0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	17	1,700,000	14	1,400,000	7	700,000	28	2,800,000	16	1,600,000

MONE (Secret WKI st - Jan - 80

			#2	21	#	22	#	23	#	24	#	25
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Control)	R.F.	30	41,712	1,251,360	32,736	982,080	154,176	4,625,280	217,008	6,510,240	29,568	887,040
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance												
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0.		0		0	2	1,200,000		0
Track Lowering Single Track (12"Av)	T.F.	40	4,000	160,000	4,000	160,000	32,000	1,280,000	28,000	1,120,000	6,000	240,000
Tunnel Modification	ns											
Track Lowering	T.F.	500		0		0		0		0		0
Structural Mod.	R.F.	3,000		0		0		0		0		0
Signals (Wayside)											00.440	
Phase Sel & Tru-II	T.F.	55	86,064	4,733,520	70,752	3,891,360	226,512	12,458,160	334,224	18,382,320		3,746,160
Cab Signals	T.F.	7		0	70,752	495,264	226,512	1,585,584	207,628	1,453,396		0
TOTAL COST				8,489,264		7,465,216		22,056,096		33,695,300		7,009,872

SCADA (Supervisory

	Units	Unit Costs	#2 Quantity	6 Cost	#2 Quantity	27 Cost	#2 Quantity	28 Cost	Quantity	#29 <u>Cost</u>	Quantity	#30 Cost
Stabilize Track for Electrification Single Track	T.F.	6	57,024	342,144	212,784	1,276,704	0		0 0		0 10,560	63,360
Overhead Utility Relocations	L.S.	16,000	5	80,000	14	224,000			0)	. 0
Underground Utility Relocations	L.F.	0		0		0			0		0	0
Right-of-Way Acquisition	Ac.	800,000		0		0			0		0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0			0		0	0
Site Demolition	C.Y.	80		0		0			0		0	0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0			0		0	0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000		0		0			0		0	0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0			0 0 0		0	0 0 0
Crossing Warning Systems	EA	100,000	11	1,100,000	28	2,800,000			0		0 1	100,000
Communications												

			#2	26	#	27	#28		#29		#3	0
	<u>Units</u>	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity Cost		Quantity	Cost
Control)	R.F.	30	28,512	855,360	158,400	4,752,000	0	0	0	0	5,280	158,400
Control Center	L.S.	10,000,000		. 0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance	ies)											
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0	1	700,000 0		0		0		0
Track Lowering Single Track (12"Av)	T.F.	40		0	12,000	480,000		0		0		0
Tunnel Modificatio Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	57,024	3,136,320 0	212,784	11,703,120 0	0	0		0	10,560	580,800 0
TOTAL COST				5,513,824		21,935,824		0		0		902,560

SCADA (Supervisory

	Units	Unit Costs	#31 Quantity	Cost	Quantity #	32 Cost	# Quantity	33 Cost	Quantity	Cost	#3 Quantity	S5 Cost
Stabilize Track for Electrification Single Track	T.F.	6	78,672	472,032	67,584	405,504	84,480	506,880	54,912	329,472	170,016	1,020,096
Overhead Utility Relocations	L.S.	16,000	2	32,000	2	32,000	3	48,000	3	48,000	12	192,000
Underground Utility Relocations	L.F.	0		0		0		0		0		0
Right-of-Way Acquisition	Ac.	800,000		0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs	*	0.20		0		0		0		0		0
Site Demolition	C.Y.	80		0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0		0
Locomotive Change Facilities	L.S.	4,000,000 / 6,000,000		0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	5	500,000	5	500,000	7	700,000	6	600,000	25	2,500,000
Communications												

			#3	1	#	32	#	33	#	34	#:	35
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Control)	R.F.	30	49,632	1,488,960	33,792	1,013,760	61,776	1,853,280	38,016	1,140,480	105,072	3,152,160
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance												
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0		0	1	700,000 0		0
Track Lowering Single Track (12"Av)	T.F.	40		0		0	1,000	40,000	6,000	240,000	8,000	320,000
Tunnel Modificatio Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		0		0		0		0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	78,672	4 ,326,960 0	67,582	3,717,010 0	84,480	4,646,400 0	54,912	3,020,160 0	170,016	9,350,880 0
TOTAL COST				6,819,952		5,668,274		7,794,560		6,078,112		16,535,136

SCADA (Supervisory

	Units	Unit Costs	# Quantity	36 Cost	9	#3 Quantity	37 Cost	#3 Quantity	38 Cost	Quant	#39 ity Cos	t Qu	#4 nantity	0 Cost	
Stabilize Track for Electrification Single Track	T.F.	6	0		0	29,568	177,408	0		0	0	0	0		0
Overhead Utility Relocations	L.S.	16,000			0		0			0		0			0
Underground Utility Relocations	L.F.	0			0		0			0		0			0
Right - of - Way Acquisition	Ac.	800,000			0		0			0		0			0
Relocation Costs, Legal Fees, Other ROW Costs		0.20	2.		0		0			0		0			0
Site Demolition	C.Y.	80			0		0			0		0			0
Shops & Ancillary Facilities	L.S.	40,000,000			0		0			0		0			0
Locomotive Change Facilities	E.S.	4,000,000 / 6,000,000			0		0			0		0			0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000			0 0 0		0 0 0			0 0 0	*	0 0 0			0 0 0
Crossing Warning Systems	EA	100,000	0		0		0	0		0	0	0	0		0
Communications															

			#36		#	37	#:	38		#39		#4	0
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	G	euantity Cost	_	Quantity	Cost
Control)	R.F.	30	0	0	10,560	316,800	0		0	0	0	0	0
Control Center	L.S.	10,000,000		0		0			0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance		600,000		0		. 0			0		0		0
Improvements	L.S. L.S.	700,000 1,000,000		O							U		Ü
Track Lowering Single Track (12"Av)	T.F.	40		0	18,000	720,000			0		0	6,000	240,000
Tunnel Modification													
Track Lowering	T.F.	500		0		0			0		0		0
Structural Mod.	R.F.	3,000		0		0			0		0		0
Signals (Wayside)													
Phase Sel & Tru-II	T.F.	55	0	0		1,626,240	0		0	0	0	0	0
Cab Signals	T.F.	7		0		0			0		0		0
TOTAL COST				0		2,840,448			0		0		240,000

	Units	Unit Costs	#4 Quantity	Cost	Quantity	#42 <u>Cost</u>	Quantity	#43 Cost	Quanti	#44 ty <u>Cost</u>	Quantity	#45 <u>Cost</u>	
Stabilize Track for Electrification Single Track	T.F.	6	0		0 ()	0 0		0	0	0)	0
Overhead Utility Relocations	L.S.	16,000			0		0		0		0		0
Underground Utility Relocations	L.F.	0			0		0		0		0		0
Right – of – Way Acquisition	Ac.	800,000			0		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20			0		0		0		0		0
Site Demolition	C.Y.	80			0		0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000			0		0		0		0		0
Locomotive Change Facilities	e L.S.	4,000,000 / 6,000,000			0		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000			0 0 0		0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000	0		0 (0	0		0	0	0	0	0

Communications SCADA (Supervisory

			#41		#4	42		43		#44		45
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Control)	R.F.	30	0	0	0	0	0		0 0	0	0	0
Control Center	L.S.	10,000,000		0		0		-	0	0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance												
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0			0	0		0
Track Lowering Single Track (12"Av)	T.F.	40		0	8,000	320,000			0 8,000	320,000	4,000	160,000
Tunnel Modification Track Lowering Structural Mod.	T.F. R.F.	500 3,000		0		0			0	0		0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0	0	0	0			0 0	0	0	0
TOTAL COST				0		320,000			0	320,000		160,000

	Units	Unit Costs	#46 Quantity Cost	Quantity	#47 <u>Cost</u>	Quant	#48 tity Cost	#49 Quantity Co	st Quar	#50 ntity Cost	
Stabilize Track for Electrification Single Track	T.F.	6	0	0	0	0 29,	040 174,240	0	0	0	0
Overhead Utility Relocations	L.S.	16,000	0	0		0	5 80,000)	0		0
Underground Utility Relocations	L.F.	0	,	0		0)	0		0
Right – of – Way Acquisition	Ac.	800,000		0		0		0	0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0	0		0
Site Demolition	C.Y.	80		0		0		0 -	0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0	0		0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0	0		0
<u>Electric</u> <u>Locomotives</u> Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0 0 0	0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		0		0	11 1,100,00	0	0		0

Communications
SCADA (Supervisory

MORE SECTLE WKL 61 - Jon - 00

	Units	Unit Costs	#4 Quantity	6 Cost	Quantity	#47 Cost		#4 Quantity	18 Cost	# Quantity	49 Cost	C	#50 Quantity	O Cost	
Control)	R.F.	30	0	0			0	29,040	871,200	0		0	0		0
Control Center	L.S.	10,000,000		0			0		0			0			0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		0			0		0			0			0
Track Lowering Single Track (12"Av)	T.F.	40		0			0		0			0			0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		0			0		0			0			0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F.	55 7	0	0		0	0	29,040	1,597,200 0	0		0	0		0
TOTAL COST				0	!		0		3,822,640			0			0

	Units	Unit Costs	#51 Quantity Cost		#5 Quantity	2 Cost	#5 Quantity	Cost	# Quantity	54 Cost	# Quantity	55 Cost	
Stabilize Track for Electrification Single Track	T.F.	6	0	0	32,736	196,416	42,240	253,440	28,512	171,072	5,280	31,6	80
Overhead Utility Relocations	L.S.	16,000		0	3	48,000	1	16,000	3	48,000			0
Underground Utility Relocations	L.F.	0		0		0		0		0			0
Right – of – Way Acquisition	Ac.	800,000		0,		0		0		0			0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0		0		0			0
Site Demolition	C.Y.	80		0		0		0		0			0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0		0		0			0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0		0		0			0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0		0 0 0		0		0 0			0 0 0
Crossing Warning Systems	EA	100,000		0	7	700,000	2	200,000	7	700,000			0

Communications
SCADA (Supervisory

			#5	51		#:	52	#5	53	#	54	#	55
	<u>Units</u>	Unit Costs	Quantity	Cost	9	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost
Control)	R.F.	30	0		0	16,368	491,040	18,480	554,400	14,256	427,680	5,280	158,400
Control Center	L.S.	10,000,000			0		0		0		0		0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000			0		0		0		0		0
Track Lowering Single Track (12"Av)	Ţ.F.	40			0	2,000	80,000	6,000	240,000	4,000	160,000		0
Tunnel Modificatio Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000			0		0		0		0		0 0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0		0	32,746	1,801,030 0	36,960	2,032,800 0	28,512	1,568,160 0	5,280	290,400
TOTAL COST					0		3,316,486		3,296,640		3,074,912		480,480

			#5			#57		#58			#59		#60		
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	Qua	antity	Cost	Quantit	y Cost	Qua	ntity	Cost	
Stabilize Track for Electrification Single Track	T.F.	6	0	0		0	0	0		0	0	0	0		0
Overhead Utility Relocations	L.S.	16,000	0	0		0	0			0	0	0	0		0
Underground Utility Relocations	L.F.	0		0			0			0		0			0
Right – of – Way Acquisition	Ac.	800,000		0			0			0		0			0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0			0			0		0			0
Site Demolition	C.Y.	80		0			0			0		0			0
Shops & Ancillary Facilities	L.S.	40,000,000		0			0			0		0			0
Locomotive Change Facilities	<u>e</u> L.S.	4,000,000 / 6,000,000		0			0			0		0			0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		0 0 0			0 0 0			0 0 0		0 0 0			0 0 0
Crossing Warning Systems	EA	100,000	0	0		0	0			0	0	0			0
Communications SCADA (Supervisor	ry														

	Units	Unit Costs	#5 Quantity	56 Cost	# Quantity	57 Cost	#5 Quantity	Sost Cost	4 Quantity	‡59 Cost	Quantity	60 Cost	
Control)	R.F.	30	0	0	0	0	0	0	0	0	0		0
Control Center	L.S.	10,000,000		0		0		0		0			0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance Improvements		600,000 700,000 1,000,000		0		0		0		0			0
Track Lowering Single Track (12"Av)	T.F.	40	4,000	160,000	7,000	280,000	8,000	320,000	2,000	80,000			0
Tunnel Modification Track Lowering Structural Mod.	ns T.F. R.F.	500 3,000		0		0		0		0			0
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0	, 0 0	0	0	0	0	0	0	0		0
TOTAL COST				160,000		280,000		320,000		80,000			0

	Units	Unit Costs	#0 Quantity	61 Cost	#6	S2 Cost	Quantity	#63 y <u>Cos</u> t	Quantit	#64 ty Cost	# Quantity	65 Cost	
Stabilize Track for										-		-	
Electrification													
Single Track	T.F.	6	0	0	0		0	0	0		0		0
Overhead Utility													
Relocations	L.S.	16,000		0			0		0		0		0
Underground Utilit	٧												
Relocations	L.F.	0		0			0		0		0		0
Right-of-Way													
Acquisition	Ac.	800,000		0			0		0		0		0
Relocation Costs,													
Legal Fees,													
Other ROW Costs		0.20		0		1	0		0		0		0
Site Demolition	C.Y.	80		0			0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000		0			0		0		0		0
		40,000,000					·		O		O		U
Locomotive Chang		4 000 000 1					•				•		
Facilities	L.S.	4,000,000 / 6,000,000		0			0		0		0		0
Electric		~											
Locomotives	L.S.	- 0-0 000		0			0		0		0		0
Passenger	EA	5,250,000		0			0		0		0		0
Freight	EA	4,000,000		0			0		0		0		0
Crossing Warning													
Systems	EA	100,000		0		3	0	0	0		0		0
Communications SCADA (Superviso	ry										k		

	Unito	Unit Costs	#61 Quantity Cost		#62	Cost	#63 Quantity	Cost	#64 Quantity Cost	# Quantity	65 Cost	
	<u>Units</u>	Unit Costs	Quantity Cost		Quantity	COST	Quantity	COST	Quality Cost	Quantity	COST	
Control)	R.F.	30	0	0	0	0	0	0		0		0
			0		0		0					100
Control Center	L.S.	10,000,000		0		0		0		0		0
Overhead Bridge												
Clearance Improver	ments											
(Including Approache	es)											
Vertical Clearance										_		
Improvements	L.S.	600,000		0		0		0		0		0
	L.S.	700,000										
	L.S.	1,000,000										
Track Lowering												
Single Track (12"Av)	T.F.	40		0	4,000	160,000		0		0		0
Tunnel Modification	ıs											
Track Lowering	T.F.	500		0		0		0		0		0
Structural Mod.	R.F.	3,000		0		0		0		0		0
Signals (Wayside)												
Phase Sel & Tru-II	T.F.	55	0	0	0	0	0	0		0		0
Cab Signals	T.F.	7		0		0		0		0	1	0
TOTAL COST				0		160,000		0		0		0

SCADA (Supervisory

	Units	Unit Costs	#6 Quantity	6 Cost	Quantity	#67 <u>Cost</u>	Q	#6 uantity	Cost	#6 Quantity	Cost	#: Quantity	Cost
Stabilize Track for Electrification Single Track	T.F.	6	0	C			0	67,056	402,336	203,808	1,222,848	0	0
Overhead Utility Relocations	L.S.	16,000		C			0	21	336,000	27	432,000	0	ERR
Underground Utility Relocations	L.F.	0		C			0		0		0		0
Right-of-Way Acquisition	Ac.	800,000		C	-		0		0		0		0
Relocation Costs, Legal Fees, Other ROW Costs		0.20					0		0		0		0
Site Demolition	C.Y.	80		(0		0		0		0
Shops & Ancillary Facilities	L.S.	40,000,000					0		0		0		0
Locomotive Change Facilities	L.S.	4,000,000 / 6,000,000		(•		0		0		0		0
Electric Locomotives Passenger Freight	L.S. EA EA	5,250,000 4,000,000		(0 0 0		0 0 0		0 0 0		0 0 0
Crossing Warning Systems	EA	100,000		()		0	42	4,200,000	54	5,400,000	0	o O
Communications													

			#6			#67		#6			69	#7		
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	9	Quantity	Cost	Quantity	Cost	Quantity	Cost	
Control)	R.F.	30	0		0		0	63,360	1,900,800	190,080	5,702,400	0		0
Control Center	L.S.	10,000,000			0		0		0		0			0
Overhead Bridge Clearance Improve (Including Approach Vertical Clearance														
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000			0		0		0		0			0
Track Lowering Single Track (12"Av)	T.F.	40			0		0	3,000	120,000	11,000	440,000			0
Tunnel Modification														
Track Lowering Structural Mod.	T.F. R.F.	500 3,000			0		0		0		0			0
Signals (Wayside)			•		•			07.050	0.000.000	000 000	11 000 110	0		
Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	0		0		0	67,056	3,688,080 0	203,808	11,209,440 0	0		0
TOTAL COST					0		0		10,647,216		24,406,688		ER	₹R

	Units	Unit Costs	#7 Quantity	1 Cost	Quantity #7	72 Cost	TOTAL QUANTITY	TOTAL COST
Stabilize Track for Electrification Single Track	T.F.	6	14,256	85,536	191,136	1,146,816	3,443,088	20,658,528
Overhead Utility Relocations	L.S.	16,000	1	16,000	3	48,000	216	3,456,000
Underground Utility Relocations	L.F.	0		0		0	0	0
Right-of-Way Acquisition	Ac.	800,000		0		0	0	0
Relocation Costs, Legal Fees, Other ROW Costs		0.20		0		0	0	0
Site Demolition	C.Y.	80		0		0	0	0
Shops & Ancillary Facilities	L.S.	40,000,000		0		0	0	0
Locomotive Chang Facilities	e L.S.	4,000,000 / 6,000,000		0		0	0	0
Electric						•		
Locomotives	L.S.	5.050.000		0		0	0	0
Passenger Freight	EA EA	5,250,000 4,000,000		0		0	0	0
Freight	LA	4,000,000		Ū		Ü	•	J
Crossing Warning Systems	EA	100,000	2	200,000	6	600,000	450	45,000,000
Communications SCADA (Superviso	ry							

			#7	11	#	72		
	Units	Unit Costs	Quantity	Cost	Quantity	Cost	TOTAL QUANTITY	TOTAL COST
Control)	R.F.	30	4,224	126,720	95,568	2,867,040	2,205,984	66,179,520
Control Center	L.S.	10,000,000		0		0	0	0
Overhead Bridge Clearance Improve (Including Approache Vertical Clearance								
Improvements	L.S. L.S. L.S.	600,000 700,000 1,000,000		0		0	3	1,800,000
Track Lowering Single Track (12"Av)	T.F.	40		0	5,000	200,000	231,000	9,240,000
Tunnel Modification Track Lowering Structural Mod.	n <u>s</u> T.F. R.F.	500 3,000		0		0 0	0 15,710	0 47,130,000
Signals (Wayside) Phase Sel & Tru-II Cab Signals	T.F. T.F.	55 7	14,256	784,080 0	191,136	10,512,480 0	3,393,744 504,892	186,655,920 3,534,244
TOTAL COST				1,212,336		15,374,336	9,795,087	383,654,212

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