

Standard Cost Categories for Capital Projects

(Rev.11a, June 4, 2008)

10 GUIDEWAY & TRACK ELEMENTS (route miles)

- 10.01 Guideway: At-grade exclusive right-of-way
- 10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)
- 10.03 Guideway: At-grade in mixed traffic
- 10.04 Guideway: Aerial structure
- 10.05 Guideway: Built-up fill
- 10.06 Guideway: Underground cut & cover
- 10.07 Guideway: Underground tunnel
- 10.08 Guideway: Retained cut or fill
- 10.09 Track: Direct fixation
- 10.10 Track: Embedded
- 10.11 Track: Ballasted
- 10.12 Track: Special (switches, turnouts)
- 10.13 Track: Vibration and noise dampening

20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)

- 20.01 At-grade station, stop, shelter, mall, terminal, platform
- 20.02 Aerial station, stop, shelter, mall, terminal, platform
- 20.03 Underground station, stop, shelter, mall, terminal, platform
- 20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.
- 20.05 Joint development
- 20.06 Automobile parking multi-story structure
- 20.07 Elevators, escalators

30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS

- 30.01 Administration Building: Office, sales, storage, revenue counting
- 30.02 Light Maintenance Facility
- 30.03 Heavy Maintenance Facility
- 30.04 Storage or Maintenance of Way Building
- 30.05 Yard and Yard Track

40 SITEWORK & SPECIAL CONDITIONS

- 40.01 Demolition, Clearing, Earthwork
- 40.02 Site Utilities, Utility Relocation
- 40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments
- 40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks
- 40.05 Site structures including retaining walls, sound walls
- 40.06 Pedestrian / bike access and accommodation, landscaping
- 40.07 Automobile, bus, van accessways including roads, parking lots
- 40.08 Temporary Facilities and other indirect costs during construction

50 SYSTEMS

- 50.01 Train control and signals
- 50.02 Traffic signals and crossing protection
- 50.03 Traction power supply: substations
- 50.04 Traction power distribution: catenary and third rail
- 50.05 Communications
- 50.06 Fare collection system and equipment
- 50.07 Central Control

60 ROW, LAND, EXISTING IMPROVEMENTS
60.01 Purchase or lease of real estate
60.02 Relocation of existing households and businesses
70 VEHICLES (number)
70.01 Light Rail
70.02 Heavy Rail
70.03 Commuter Rail
70.04 Bus
70.05 Other
70.06 Non-revenue vehicles
70.07 Spare parts
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)
80.01 Preliminary Engineering
80.02 Final Design
80.03 Project Management for Design and Construction
80.04 Construction Administration & Management
80.05 Professional Liability and other Non-Construction Insurance
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.
80.07 Surveys, Testing, Investigation, Inspection
80.08 Start up
90 UNALLOCATED CONTINGENCY
100 FINANCE CHARGES

Standard Cost Categories for Capital Projects DEFINITIONS		NOTE: The SCC cost breakdown is based on a traditional Design Bid Build model. If your project is Design Build, to the best of your ability, separate construction costs from design, administration, testing, etc. Put all construction costs in 10 through 50. Put design, administration, testing, etc. in <i>80 Professional Services</i> .
(Rev.11a, June 4, 2008)		
10 GUIDEWAY & TRACK ELEMENTS (route miles)		<p>Include guideway and track costs for all transit modes (Heavy rail, light rail, commuter rail, BRT, rapid bus, bus, monorail, cable car, etc.) The unit of measure is route miles of guideway, regardless of width. As associated with the guideway, include costs for rough grading, excavation, and concrete base for guideway where applicable. Include all construction materials and labor regardless of whom is performing the work.</p> <p>In your written description of the scope and in supporting graphic diagrams, indicate whether busway or rail track is single, double, triple, relocated, etc. Put guideway and track elements associated with yards in <i>30 Support Facilities</i> below.</p>
10.01	Guideway: At-grade exclusive right-of-way	
10.02	Guideway: At-grade semi-exclusive (allows cross-traffic)	
10.03	Guideway: At-grade in mixed traffic	
10.04	Guideway: Aerial structure	Include foundation excavation; guideway structures including caissons, columns, bridges, viaducts, cross-overs, fly-overs.
10.05	Guideway: Built-up fill	Include construction of earthen berms.
10.06	Guideway: Underground cut & cover	Include excavation, retaining walls, backfill, underground guideway structure and finishes.
10.07	Guideway: Underground tunnel	Include tunneling by means of a tunnel boring machine, drill blasting, mining, and immersed tube tunneling; tunnel structure and finishes.
10.08	Guideway: Retained cut or fill	Include excavation, retaining walls, backfill, underground guideway structure and finishes.
10.09	Track: Direct fixation	Include rails, connectors.
10.10	Track: Embedded	Include rails, ties; ballast where applicable
10.11	Track: Ballasted	Include rails, ties and ballast.
10.12	Track: Special (switches, turnouts)	Include transitional curves.
10.13	Track: Vibration and noise dampening	Include upcharge for vib/noise dampening to any track condition above.
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)		<p>As associated with stations, include costs for rough grading, excavation, station structures, enclosures, finishes, equipment; mechanical and electrical components including HVAC, ventilation shafts and equipment, station power, lighting, public address/customer information system, safety systems such as fire detection and prevention, security surveillance, access control, life safety systems, etc. Include all construction materials and labor regardless of whom is performing the work.</p> <p>Put guideway and track associated with stations in <i>10 Guideway & Track Elements</i> above.</p>
20.01	At-grade station, stop, shelter, mall, terminal, platform	
20.02	Aerial station, stop, shelter, mall, terminal, platform	Include station structures including caissons, columns, platforms, superstructures, etc.
20.03	Underground station, stop, shelter, mall, terminal, platform	Include retaining walls, backfill, structure.
20.04	Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	
20.05	Joint development	Per FTA's Joint Development Guidance, "Joint development is any income-producing activity with a transit nexus related to a real estate asset in which FTA has an interest. . . Joint development projects are commercial, residential, industrial, or mixed-use developments that are induced by or enhance the effectiveness of transit projects. . ." See http://www.fta.dot.gov/17973_18027_ENG_HTML.htm
20.06	Automobile parking multi-story structure	Include retaining walls, backfill, structure.
20.07	Elevators, escalators	
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS		<p>As associated with support facilities, include costs for rough grading, excavation, support structures, enclosures, finishes, equipment; mechanical and electrical components including HVAC, ventilation shafts and equipment, facility power, lighting, public address system, safety systems such as fire detection and prevention, security surveillance, access control, life safety systems, etc. Include fueling stations. Include all construction materials and labor regardless of whom is performing the work.</p> <p>Where a support facility shares the structure with a station, its cost may be included with station cost. Identify this with a note.</p> <p>Except for guideway and track associated with a yard, include all guideway and track costs associated with support facilities in <i>10 Guideway & Track Elements</i> above.</p>
30.01	Administration Building: Office, sales, storage, revenue counting	
30.02	Light Maintenance Facility	Include service, inspection, and storage facilities and equipment.
30.03	Heavy Maintenance Facility	Include heavy maintenance and overhaul facilities and equipment.
30.04	Storage or Maintenance of Way Building	
30.05	Yard and Yard Track	Include yard construction, guideway and track associated with yard.

40 SITEWORK & SPECIAL CONDITIONS		Include all construction materials and labor regardless of whom is performing the work.
40.01	Demolition, Clearing, Earthwork	Include project-wide clearing, demolition and fine grading.
40.02	Site Utilities, Utility Relocation	Include all site utilities - storm, sewer, water, gas, electric.
40.03	Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	Include underground storage tanks, fuel tanks, other hazardous materials and treatments, etc.
40.04	Environmental mitigation, e.g. wetlands, historic/archeologic, parks	Include other environmental mitigation not listed.
40.05	Site structures including retaining walls, sound walls	
40.06	Pedestrian / bike access and accommodation, landscaping	Include sidewalks, paths, plazas, landscape, site and station furniture, site lighting, signage, public artwork, bike facilities, permanent fencing.
40.07	Automobile, bus, van accessways including roads, parking lots	Include all on-grade paving.
40.08	Temporary Facilities and other indirect costs during construction	As a general rule and to the extent possible, appropriately allocate indirect costs among the construction costs in Categories 10 through 50. Where that is not possible, include in <i>40.08 Temporary Facilities</i> costs for mobilization, demobilization, phasing; time and temporary construction associated with weather (heat, rain, freezing, etc.); temporary power and facilities; temporary construction, easements, and barriers for storm water pollution prevention, temporary access and to mitigate construction impacts; project and construction supervision; general conditions, overhead, profit. NOTE: Include contractor's general liability and other insurance related to construction such as builder's risk in Cats. 10 - 50, not in 80 Professional Services below.
50 SYSTEMS		Include all construction materials and labor regardless of whom is performing the work.
50.01	Train control and signals	
50.02	Traffic signals and crossing protection	Include signal prioritization at intersections.
50.03	Traction power supply: substations	
50.04	Traction power distribution: catenary and third rail	
50.05	Communications	Include passenger information systems at stations and on vehicles (real time travel information; static maps and schedules). Include equipment to allow communications among vehicles and with central control.
50.06	Fare collection system and equipment	Include fare sales and swipe machines, fare counting equipment.
50.07	Central Control	
Construction Subtotal (10 - 50)		

60 ROW, LAND, EXISTING IMPROVEMENTS		Include professional services associated with the real estate component of the project. These costs may include agency staff oversight and administration, real estate and relocation consultants, legal counsel, court expenses, insurance, etc.
60.01	Purchase or lease of real estate	If the value of right-of-way, land, and existing improvements is to be used as local match to the Federal funding of the project, include the total cost on this line item. In backup documentation, separate cost for land from cost for improvements. Identify whether items are leased, purchased or acquired through payment or for free. Include the costs for permanent surface and subsurface easements, trackage rights, etc.
60.02	Relocation of existing households and businesses	In compliance with Uniform Relocation Act.
70 VEHICLES (number)		Include professional services associated with the vehicle component of the project. These costs may include agency staff oversight and administration, vehicle consultants, design and manufacturing contractors, legal counsel, warranty and insurance costs, etc.
70.01	Light Rail	Include light rail and streetcar rail using electric, diesel or other power supply.
70.02	Heavy Rail	
70.03	Commuter Rail	Include locomotives (diesel, electric, or other), trailer cars, self-propelled multiple units (EMU electric or DMU diesel, or other power supply)
70.04	Bus	Includes "rubber-tired" buses and trolleys including new, used, historic replica, articulated, using electric, diesel, dual-power, or other power supply.
70.05	Other	Include Vans, Sedan/Station Wagon, Cable Car, People Mover, Monorail, Car/Inclined Railway, Ferry Boat, Transferred Vehicle
70.06	Non-revenue vehicles	
70.07	Spare parts	
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)		Cat. 80 applies to Cats. 10-50. Cat. 80 includes all professional, technical and management services related to the design and construction of fixed infrastructure (Cats. 10 - 50) during the preliminary engineering, final design, and construction phases of the project. This includes environmental work, design, engineering and architectural services; specialty services such as safety or security analyses; value engineering, risk assessment, cost estimating, scheduling, Before and After studies, ridership modeling and analyses, auditing, legal services, administration and management, etc. by agency staff or outside consultants.
80.01	Preliminary Engineering	<p>Include professional liability insurance and other non-construction insurance on 80.05 unless insurance for the agency and its consultants is already included in other lines.</p> <p>Include costs associated with professional services related to real estate and vehicles in Cats. 60 and 70.</p> <p><i>(Note that costs for alternatives analysis and NEPA work done before FTA approval to enter preliminary engineering (PE), regardless of funding source, are not included in an FFGA and therefore, should not be included in the Standard Cost Category worksheets. For example, on one and the same grant, costs incurred prior to FTA approval to enter PE should be omitted from these worksheets whereas costs incurred after FTA approval to enter PE should be included.)</i></p>
80.02	Final Design	
80.03	Project Management for Design and Construction	
80.04	Construction Administration & Management	
80.05	Professional Liability and other Non-Construction Insurance	
80.06	Legal; Permits; Review Fees by other agencies, cities, etc.	
80.07	Surveys, Testing, Investigation, Inspection	
80.08	Start up	
Subtotal (10 - 80)		
90 UNALLOCATED CONTINGENCY		Includes unallocated contingency, project reserves. Document allocated contingencies for individual line items on the Main worksheets.
Subtotal (10 - 90)		
100 FINANCE CHARGES		<p>Include finance charges expected to be paid by the project sponsor/grantee prior to either the completion of the project or the fulfillment of the New Starts funding commitment, whichever occurs later in time. Finance charges incurred after this date should not be included in Total Project Cost. (See FFGA Circular FTA C5200.1A Chapter III for additional information.)</p> <p>Derive finance charges from the New Starts project's financial plan, based on an analysis of the sources and uses of funds. The amount and type of debt financing required and revenues available determine the finance charges. By year, compute finance charges in year-of-expenditure (YOE) dollars. On the Inflation Calculation to YOE worksheet enter the finance charges for the appropriate years.</p>
Total Project Cost (10 - 100)		

14-Series TEAM Scopes / Activity Line Items

Required for all grants that serve a Capital Project

(Rev.11a, June 4, 2008)

<p>1. HOW DO THE SCC AND TEAM RELATE? TEAM is for grants management. Many grants can serve a capital project -- e.g. CMAQ, 5307, 5309, etc. The Standard Cost Categories (SCC) are for cost management, day to day as well as at important milestones.</p> <p>To manage capital project costs use the SCC worksheets, back up sheets, detailed cost estimates, etc. At important milestones, "paperclip" the SCC worksheets to the applicable grants in TEAM.</p> <p>TEAM and the SCC support each other but TEAM doesn't duplicate the level of information in the SCC. The idea is to keep grants budgets simple and focus on cost management.</p> <p>2. WHEN SHOULD I USE THE 14-SERIES? Use it for capital projects. For New Starts project, use it from the very first grant that funds Preliminary Engineering, and include all grants issued through the FFGA; these grants may be small or large and may derive funding from diverse sources such as CMAQ, 5307, 5309 Fixed Guideway Mod, 5309 New Starts, Federal Non-Transportation funding from HUD, Defense, etc.</p> <p>3. HOW IS THE 14-SERIES ORGANIZED AND WHY? The 14-Series has only 10 pairs of Scopes and ALIs. This is intentionally simple. Do not mix and match Scopes and ALIs or change the standard text. For example, put only guideway costs under the Guideway Scope. If kept simple, the information will be correct and will produce a reliable database at the program-wide level.</p> <p>4. WHAT'S WITH THE VEHICLES? For now, use 14-Series SCOPE (14070) and 13-Series ALIs.</p>	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="background-color: #e0e0e0;">14010 GUIDEWAY & TRACK ELEMENTS</td> <td></td> </tr> <tr> <td>140110 Guideway & Track Elements</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;">14020 STATIONS, STOPS, TERMINALS, INTERMODAL</td> <td></td> </tr> <tr> <td>140220 Stations, Stops, Terminals, Intermodal</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;">14030 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN BLDGS</td> <td></td> </tr> <tr> <td>140330 Support Facilities: Yards, Shops, Admin Bldgs</td> <td></td> </tr> <tr> <td style="background-color: #e0e0e0;">14040 SITEWORK & SPECIAL CONDITIONS</td> <td></td> </tr> <tr> <td>140440 Sitework & Special Conditions</td> <td style="border: 1px solid black; text-align: center;">Engineering & Design 13.11.XX</td> </tr> <tr> <td style="background-color: #e0e0e0;">14050 SYSTEMS</td> <td></td> </tr> <tr> <td>140550 Systems</td> <td style="border: 1px solid black; text-align: center;">Purchase - Replacement 13.12.XX</td> </tr> <tr> <td style="background-color: #e0e0e0;">14060 ROW, LAND, EXISTING IMPROVEMENTS</td> <td></td> </tr> <tr> <td>140660 ROW, Land, Existing Improvements</td> <td style="border: 1px solid black; text-align: center;">Purchase - Expansion 13.13.XX</td> </tr> <tr> <td style="background-color: #e0e0e0;">14070 VEHICLES</td> <td></td> </tr> <tr> <td>13____ Note! 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PROJECT DESCRIPTION - BUILD ALTERNATIVE

(Rev.11a, June 4, 2008)

Insert Project Sponsor's Name here	Sarasota County Area Transit/Sarasota County, Florida	Today's Date	9/13/09
Insert Project Name and Location	Sarasota County Area Transit North-South BRT Sarasota, Florida		
Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Construction, Rev Ops)	PE		

Describe the project elements to explain the unit costs shown on the Main Worksheet. Example: A 20-mile new light rail project has its guideway entirely on grade except for a one-eighth mile bridge over a river. The bridge or aerial structure may have a relatively high unit cost because there is little economy of scale.

Mention precedents and reference points used in the development of costs for this project. Mention other aspects of this project that were important considerations in estimating costs. These could include the physical context, site constraints; design parameters; institutional, contracting and procurement conditions; project schedule, etc.

10 GUIDEWAY & TRACK ELEMENTS (route miles)

10.01 Guideway: At-grade exclusive right-of-way	
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	BRT busway to be built on either side of existing freight rail track - University Drive to 10th Street.
10.03 Guideway: At-grade in mixed traffic	BRT busway to be built on existing roadway - Lemon Avenue 10th Street to 1st Street - one lane in each direction - traffic lanes on one side.
10.04 Guideway: Aerial structure	BRT busway to be build on existing roadway - Siesta Drive to just before Hillview Street - one lane in each direction.
10.05 Guideway: Built-up fill	
10.06 Guideway: Underground cut & cover	
10.07 Guideway: Underground tunnel	
10.08 Guideway: Retained cut or fill	
10.09 Track: Direct fixation	
10.10 Track: Embedded	
10.11 Track: Ballasted	
10.12 Track: Special (switches, turnouts)	
10.13 Track: Vibration and noise dampening	

20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)

20.01 At-grade station, stop, shelter, mall, terminal, platform	6 Level 1 Stations @ \$144,000 / 23 Level 2 Stations @ \$326,400
20.02 Aerial station, stop, shelter, mall, terminal, platform	
20.03 Underground station, stop, shelter, mall, terminal, platform	
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1 Park and Ride lot in the vicinity of SRQ and USF. Planning for approximately 100 spaces.
20.05 Joint development	
20.06 Automobile parking multi-story structure	
20.07 Elevators, escalators	

30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS

30.01 Administration Building: Office, sales, storage, revenue counting
30.02 Light Maintenance Facility
30.03 Heavy Maintenance Facility
30.04 Storage or Maintenance of Way Building
30.05 Yard and Yard Track

40 SITEWORK & SPECIAL CONDITIONS

40.01 Demolition, Clearing, Earthwork	
40.02 Site Utilities, Utility Relocation	
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks	
40.05 Site structures including retaining walls, sound walls	
40.06 Pedestrian / bike access and accommodation, landscaping	
40.07 Automobile, bus, van accessways including roads, parking lots	Infrastructure changes/new roadway on Hillview Street
40.08 Temporary Facilities and other indirect costs during construction	

50 SYSTEMS

50.01 Train control and signals	
50.02 Traffic signals and crossing protection	Queue Jump Lanes 1 @ \$192,000, Signal Priority 26 standard @ \$25,000, Signal Priority standard w/traffic signal 1 @ \$35,000, Railroad signal modifications 5 @
50.03 Traction power supply: substations	
50.04 Traction power distribution: catenary and third rail	
50.05 Communications	
50.06 Fare collection system and equipment	
50.07 Central Control	

Construction Subtotal (10 - 50)

60 ROW, LAND, EXISTING IMPROVEMENTS

60.01 Purchase or lease of real estate	ROW purchase 6 Level 1 Stations @ \$50,000, 23 Level 2 Stations @ \$150,000, Existing Freight Rail Corridor Section \$10,000,000; Hillview Street \$500,000
60.02 Relocation of existing households and businesses	

70 VEHICLES (number)

70.01 Light Rail	
70.02 Heavy Rail	
70.03 Commuter Rail	
70.04 Bus	Purchase of 10 Diesel/Electric Hybrid BRT buses - approximate seating 45 passengers - similar to buses already in fleet or on order - proposed to have unique
70.05 Other	
70.06 Non-revenue vehicles	
70.07 Spare parts	

80 PROFESSIONAL SERVICES (applies to Cats. 10-50)

80.01 Preliminary Engineering	Engineering Design 10% of Capital Costs - \$4.582 million.
80.02 Final Design	
80.03 Project Management for Design and Construction	
80.04 Construction Administration & Management	Construction Management 6% of Capital Costs - \$2.749 million.
80.05 Professional Liability and other Non-Construction Insurance	Insurance and Agency Costs 2% of Capital Costs - \$917,000.
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.	
80.07 Surveys, Testing, Investigation, Inspection	
80.08 Start up	

Subtotal (10 - 80)

90 UNALLOCATED CONTINGENCY

Contingency 30% of Capital Costs \$13.747 million.

Subtotal (10 - 90)

100 FINANCE CHARGES

Total Project Cost (10 - 100)

SCHEDULE

(Rev.11a, June 4, 2008)

Insert Project Sponsor's Name here

Today's Date **9/13/09**

Insert Project Name and Location

Yr of Base Year \$ 2009

Insert Current Phase (e.g. Applic.for PE, PE, FD, Appl

Yr of Revenue Ops 2013

Insert comments, notes, etc.	Start Date	End Date	2008			
Preliminary Engineering	01/01/09	01/01/10				
Design of the Build and Baseline Alternatives						
Develop cost estimate, schedule, ridership forecast						
Conduct reviews						
Develop FEIS, receive Record of Decision						
Submit request / receive FTA approval to enter Final Design						
Final Design	01/01/10	06/01/11				
Develop the contract documents for the Build Alternative						
Develop cost estimate, schedule						
Acquisition of real estate, relocation of households and businesses						
Conduct reviews						
Submit request / receive FTA approval for FFGA						
Issue requests for bids, make awards of construction contracts						
Construction	09/01/08	01/01/12				
Construct fixed infrastructure						
Finalize real estate acquisitions and relocations						
Acquire and test vehicles						
Revenue Ops / Closeout of Project	01/01/12	03/01/14				
Revenue Operations						
Before and After Study: Two years post Rev Ops						
Fulfillment of the New Starts funding commitment						
Completion of project close-out, resolution of claims						

ANNUALIZED COST-BUILD ALTERNATIVE

(Rev.11a, June 4, 2008)

Insert Project Sponsor's Name here

Today's Date **9/13/09**

Insert Project Name and Location

Yr of Base Year \$ **2009**

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Cc)

Yr of Revenue Ops **2013**

	Quantity	Total Base Year Dollars (X000)	Cat. 80 Prof. Svc. spread proportionally over Cats. 10 - 50 (X000)	Spread Cat. 90 Unalloc. Cont. according to perceived risks (X000)	Revised Total Base Year Dollars (X000)	Years of Useful Life	Annualization Factor (based on 7% rate) [0.07/1 - (1.07)^-no. yrs]	Annualized Cost (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	4.15	24,696	4,963	0	29,659			2,415
10.01 Guideway: At-grade exclusive right-of-way	0.00	0	0	0	0	125	0.0700	0
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	2.65	23,174	4,657	0	27,831	30	0.0806	2,243
10.03 Guideway: At-grade in mixed traffic	1.50	1,522	306	0	1,828	20	0.0944	173
10.04 Guideway: Aerial structure	0.00	0	0	0	0	80	0.0703	0
10.05 Guideway: Built-up fill	0.00	0	0	0	0	80	0.0703	0
10.06 Guideway: Underground cut & cover	0.00	0	0	0	0	125	0.0700	0
10.07 Guideway: Underground tunnel	0.00	0	0	0	0	125	0.0700	0
10.08 Guideway: Retained cut or fill	0.00	0	0	0	0	125	0.0700	0
10.09 Track: Direct fixation	0	0	0	0	0	30	0.0806	0
10.10 Track: Embedded	0	0	0	0	0	20	0.0944	0
10.11 Track: Ballasted	0	0	0	0	0	35	0.0772	0
10.12 Track: Special (switches, turnouts)	0	0	0	0	0	30	0.0806	0
10.13 Track: Vibration and noise dampening	0	0	0	0	0	30	0.0806	0
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	30	13,455	2,704	0	16,159			1,141
20.01 At-grade station, stop, shelter, mall, terminal, platform	29	12,155	2,442	0	14,597	70	0.0706	1,031
20.02 Aerial station, stop, shelter, mall, terminal, platform	0	0	0	0	0	70	0.0706	0
20.03 Underground station, stop, shelter, mall, terminal, platform	0	0	0	0	0	125	0.0700	0
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1	1,300	261	0	1,561	70	0.0706	110
20.05 Joint development	0	0	0	0	0	70	0.0706	0
20.06 Automobile parking multi-story structure	0	0	0	0	0	50	0.0725	0
20.07 Elevators, escalators	0	0	0	0	0	30	0.0806	0
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	0	0	0	0			0
30.01 Administration Building: Office, sales, storage, revenue counting	0	0	0	0	0	50	0.0725	0
30.02 Light Maintenance Facility	0	0	0	0	0	50	0.0725	0
30.03 Heavy Maintenance Facility	0	0	0	0	0	50	0.0725	0
30.04 Storage or Maintenance of Way Building	0	0	0	0	0	50	0.0725	0
30.05 Yard and Yard Track	0	0	0	0	0	80	0.0703	0
40 SITEWORK & SPECIAL CONDITIONS	1,105	222	0	0	1,327			125
40.01 Demolition, Clearing, Earthwork	0	0	0	0	0	125	0.0700	0
40.02 Site Utilities, Utility Relocation	0	0	0	0	0	125	0.0700	0
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	0	0	0	0	0	125	0.0700	0
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks	0	0	0	0	0	125	0.0700	0
40.05 Site structures including retaining walls, sound walls	0	0	0	0	0	80	0.0703	0
40.06 Pedestrian / bike access and accommodation, landscaping	0	0	0	0	0	20	0.0944	0
40.07 Automobile, bus, van accessways including roads, parking lots	1,105	222	0	0	1,327	20	0.0944	125
40.08 Temporary Facilities and other indirect costs during construction	0	0	0	0	0	100	0.0701	0
50 SYSTEMS	1,790	360	0	0	2,150			173
50.01 Train control and signals	0	0	0	0	0	30	0.0806	0
50.02 Traffic signals and crossing protection	1,790	360	0	0	2,150	30	0.0806	173
50.03 Traction power supply: substations	0	0	0	0	0	50	0.0725	0
50.04 Traction power distribution: catenary and third rail	0	0	0	0	0	30	0.0806	0
50.05 Communications	0	0	0	0	0	20	0.0944	0
50.06 Fare collection system and equipment	0	0	0	0	0	25	0.0858	0
50.07 Central Control	0	0	0	0	0	30	0.0806	0
Construction Subtotal (10 - 50)		41,046	8,248	0	49,294			3,855
60 ROW, LAND, EXISTING IMPROVEMENTS		18,525		0	18,525			1,297
60.01 Purchase or lease of real estate		18,525			18,525	125	0.0700	1,297
60.02 Relocation of existing households and businesses		0			0	125	0.0700	0
70 VEHICLES (number)	10	6,050		0	6,050			762
70.01 Light Rail	0	0		0	0	25	0.0858	0
70.02 Heavy Rail	0	0		0	0	25	0.0858	0
70.03 Commuter Rail	0	0		0	0	25	0.0858	0
70.04 Bus	10	5,500		0	5,500	12	0.1259	692
70.05 Other	0	0		0	0	12	0.1259	0
70.06 Non-revenue vehicles	0	0		0	0	12	0.1259	0
70.07 Spare parts	0	550		0	550	12	0.1259	69
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)		8,248						
80.01 Preliminary Engineering		4,582						
80.02 Final Design		0						
80.03 Project Management for Design and Construction		0						
80.04 Construction Administration & Management		2,749						
80.05 Professional Liability and other Non-Construction Insurance		917						
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.		0						
80.07 Surveys, Testing, Investigation, Inspection		0						
80.08 Start up		0						
Subtotal (10 - 80)		73,869						
90 UNALLOCATED CONTINGENCY		0						
Subtotal (10 - 90)		73,869	8,248	0	73,869			5,914

FUNDING SOURCES BY CATEGORY

(Rev.11a, June 4, 2008)

Insert Project Sponsor's Name here

Today's Date **9/13/09**

Insert Project Name and Location

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Construction, Rev Ops)

	Cost		Funding Summary			80%	10%	10%					
	YOE Cost (X000)	Double-check Total	Federal 5309 New Starts Funds	Federal Other Funds	Local Funds	Federal 5309 New Starts	Local	State	Local	Federal Other	Local	Federal Other	Local
10 GUIDEWAY & TRACK ELEMENTS (route miles)	28,562	28,562	22,849	2,856	2,856	22,849	2,856	2,856					
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	15,561	15,561	12,449	1,556	1,556	12,449	1,556	1,556					
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	0	0	0	0	0	0	0					
40 SITEWORK & SPECIAL CONDITIONS	1,278	1,278	1,022	128	128	1,022	128	128					
50 SYSTEMS	2,070	2,070	1,656	207	207	1,656	207	207					
60 ROW, LAND, EXISTING IMPROVEMENTS	21,425	21,425	17,140	2,142	2,142	17,140	2,142	2,142					
70 VEHICLES (number)	7,337	7,337	5,870	734	734	5,870	734	734					
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	9,539	9,539	7,631	954	954	7,631	954	954					
90 UNALLOCATED CONTINGENCY	0	0	0	0	0	0	0	0					
100 FINANCE CHARGES	0	0	0	0	0	0	0	0					
Total Project Cost (10 - 100)	85,772	85,772	68,618	8,577	8,577	68,618	8,577	8,577	0	0	0	0	0
Percentage of Total Project Cost	100%		80.0%	10.0%	10.0%	80.0%	10.0%	10.0%	0.0%	0.0%	0.0%	0.0%	0.0%
			80.0%	20.0%									
			100.00%										

MAIN WORKSHEET - BASELINE ALTERNATIVE

(Rev.11a, June 4, 2008)

Insert Project Sponsor's Name here

Today's Date **9/13/09**

Insert Project Name and Location

Yr of Base Year \$ **2009**

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Cc)

Yr of Revenue Ops **2013**

	Quantity	Base Year Dollars w/o Contingency (X000)	Base Year Dollars Allocated Contingency (X000)	Base Year Dollars TOTAL (X000)	Base Year Dollars Unit Cost (X000)	Base Year Dollars Percentage of Construction Cost	Base Year Dollars Percentage of Total Project Cost	Baseline Alternative Cost Parameters (X000) see New Starts Reporting Instructions for additional info
10 GUIDEWAY & TRACK ELEMENTS (route miles)	1.50	1,171	351	1,522	\$ 1,015	12%	6%	
10.01 Guideway: At-grade exclusive right-of-way				0				
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	0.00	0	0	0				1082/route mile
10.03 Guideway: At-grade in mixed traffic	1.50	1,171	351	1,522	\$ 1,015			1082/route mile
10.04 Guideway: Aerial structure				0				
10.05 Guideway: Built-up fill				0				
10.06 Guideway: Underground cut & cover				0				
10.07 Guideway: Underground tunnel				0				
10.08 Guideway: Retained cut or fill				0				
10.09 Track: Direct fixation				0				
10.10 Track: Embedded				0				
10.11 Track: Ballasted				0				
10.12 Track: Special (switches, turnouts)				0				
10.13 Track: Vibration and noise dampening				0				
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	30	5,176	1,553	6,729	\$ 224	54%	28%	
20.01 At-grade station, stop, shelter, mall, terminal, platform	29	4,176	1,253	5,429	\$ 187			216/station
20.02 Aerial station, stop, shelter, mall, terminal, platform				0				
20.03 Underground station, stop, shelter, mall, terminal, platform				0				
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1	1,000	300	1,300	\$ 1,300			
20.05 Joint development				0				
20.06 Automobile parking multi-story structure				0				
20.07 Elevators, escalators				0				
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	1.50	0	0	0	\$ -	0%	0%	
30.01 Administration Building: Office, sales, storage, revenue counting				0				
30.02 Light Maintenance Facility		0	0	0				
30.03 Heavy Maintenance Facility				0				
30.04 Storage or Maintenance of Way Building				0				
30.05 Yard and Yard Track				0				
40 SITEWORK & SPECIAL CONDITIONS	1.50	2,364	709	3,073	\$ 2,049	25%	13%	
40.01 Demolition, Clearing, Earthwork		0	0	0				
40.02 Site Utilities, Utility Relocation		1,310	393	1,703				
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments				0				
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks		0	0	0				
40.05 Site structures including retaining walls, sound walls				0				
40.06 Pedestrian / bike access and accommodation, landscaping		0	0	0				
40.07 Automobile, bus, van accessways including roads, parking lots		1,054	316	1,370				5.4/on-grade space
40.08 Temporary Facilities and other indirect costs during construction		0	0	0				
50 SYSTEMS	1.50	877	263	1,140	\$ 760	9%	5%	
50.01 Train control and signals				0				
50.02 Traffic signals and crossing protection		877	263	1,140				27/intersection
50.03 Traction power supply: substations				0				
50.04 Traction power distribution: catenary and third rail				0				
50.05 Communications		0	0	0				13/bus and 13/sign
50.06 Fare collection system and equipment		0	0	0				10.8/bus
50.07 Central Control		0	0	0				16.2-27 /bus
Construction Subtotal (10 - 50)	1.50	9,588	2,876	12,464	\$ 8,309	100%	52%	
60 ROW, LAND, EXISTING IMPROVEMENTS	1.50	1,950	585	2,535	\$ 1,690		10%	
60.01 Purchase or lease of real estate		1,950	585	2,535				
60.02 Relocation of existing households and businesses				0				
70 VEHICLES (number)	12	7,100	0	7,100	\$ 592		29%	
70.01 Light Rail				0				
70.02 Heavy Rail				0				
70.03 Commuter Rail				0				
70.04 Bus	12	6,600	0	6,600	\$ 550			433 conventional or 703 articulated bus
70.05 Other				0				
70.06 Non-revenue vehicles				0				
70.07 Spare parts		500		500				
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	1.50	2,077	0	2,077	\$ 1,385	17%	9%	
80.01 Preliminary Engineering		1,154	0	1,154				
80.02 Final Design				0				
80.03 Project Management for Design and Construction		692	0	692				
80.04 Construction Administration & Management				0				
80.05 Professional Liability and other Non-Construction Insurance		231	0	231				
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.				0				
80.07 Surveys, Testing, Investigation, Inspection				0				
80.08 Start up				0				
Subtotal (10 - 80)	1.50	20,715	3,461	24,176	\$ 16,117		100%	
90 UNALLOCATED CONTINGENCY							0%	
Subtotal (10 - 90)	1.50			24,176	\$ 16,117		100%	
100 FINANCE CHARGES				NA				
Total Project Cost (10 - 100)	1.50			24,176	\$ 16,117		100%	
Total Base Year Cost per Mile Not Including Vehicles (X000)					\$11,384			
Allocated Contingency as % of Base Yr Dollars w/o Cont.				16.71%				
Unallocated Contingency as % of Base Yr Dollars w/o Contingency				0.00%				
Total Contingency as % of Base Yr Dollars w/o Contingency				16.71%				
Unallocated Contingency as % of Subtotal (10 - 80)				0.00%				

ANNUALIZED COST-BASELINE ALTERNATIVE

(Rev.11a, June 4, 2008)

Insert Project Sponsor's Name here

Today's Date **9/13/09**

Insert Project Name and Location

Yr of Base Year \$ 2009

Insert Current Phase (e.g. Applic.for PE, PE, FD, Applic.for FFGA, Con

Yr of Revenue Ops 2013

	Quantity	Total Base Year Dollars (X000)	Cat. 80 Prof. Svc. spread proportionally over Cats. 10 - 50 (X000)	Spread Cat. 90 Unalloc. Cont. according to perceived risks (X000)	Revised Total Base Year Dollars (X000)	Years of Useful Life	Annualization Factor (based on 7% rate) [0.07/1 - (1.07)^- no. yrs]	Annualized Cost (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	1.50	1,522	254	0	1,776			168
10.01 Guideway: At-grade exclusive right-of-way	0.00	0	0	0	0	125	0.0700	0
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	0.00	0	0	0	0	30	0.0806	0
10.03 Guideway: At-grade in mixed traffic	1.50	1,522	254	0	1,776	20	0.0944	168
10.04 Guideway: Aerial structure	0.00	0	0	0	0	80	0.0703	0
10.05 Guideway: Built-up fill	0.00	0	0	0	0	80	0.0703	0
10.06 Guideway: Underground cut & cover	0.00	0	0	0	0	125	0.0700	0
10.07 Guideway: Underground tunnel	0.00	0	0	0	0	125	0.0700	0
10.08 Guideway: Retained cut or fill	0.00	0	0	0	0	125	0.0700	0
10.09 Track: Direct fixation	0	0	0	0	0	30	0.0806	0
10.10 Track: Embedded	0	0	0	0	0	20	0.0944	0
10.11 Track: Ballasted	0	0	0	0	0	35	0.0772	0
10.12 Track: Special (switches, turnouts)	0	0	0	0	0	30	0.0806	0
10.13 Track: Vibration and noise dampening	0	0	0	0	0	30	0.0806	0
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	30	6,729	1,121	0	7,850			554
20.01 At-grade station, stop, shelter, mall, terminal, platform	29	5,429	905	0	6,334	70	0.0706	447
20.02 Aerial station, stop, shelter, mall, terminal, platform	0	0	0	0	0	70	0.0706	0
20.03 Underground station, stop, shelter, mall, terminal, platform	0	0	0	0	0	125	0.0700	0
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1	1,300	217	0	1,517	70	0.0706	107
20.05 Joint development	0	0	0	0	0	70	0.0706	0
20.06 Automobile parking multi-story structure	0	0	0	0	0	50	0.0725	0
20.07 Elevators, escalators	0	0	0	0	0	30	0.0806	0
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	0	0	0	0			0
30.01 Administration Building: Office, sales, storage, revenue counting	0	0	0	0	0	50	0.0725	0
30.02 Light Maintenance Facility	0	0	0	0	0	50	0.0725	0
30.03 Heavy Maintenance Facility	0	0	0	0	0	50	0.0725	0
30.04 Storage or Maintenance of Way Building	0	0	0	0	0	50	0.0725	0
30.05 Yard and Yard Track	0	0	0	0	0	80	0.0703	0
40 SITEWORK & SPECIAL CONDITIONS	3,073	512	0	3,585				290
40.01 Demolition, Clearing, Earthwork	0	0	0	0	0	125	0.0700	0
40.02 Site Utilities, Utility Relocation	1,703	284	0	1,987	125	0.0700	139	
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments	0	0	0	0	125	0.0700	0	
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks	0	0	0	0	125	0.0700	0	
40.05 Site structures including retaining walls, sound walls	0	0	0	0	80	0.0703	0	
40.06 Pedestrian / bike access and accommodation, landscaping	0	0	0	0	20	0.0944	0	
40.07 Automobile, bus, van accessways including roads, parking lots	1,370	228	0	1,598	20	0.0944	151	
40.08 Temporary Facilities and other indirect costs during construction	0	0	0	0	100	0.0701	0	
50 SYSTEMS	1,140	190	0	1,330				107
50.01 Train control and signals	0	0	0	0	30	0.0806	0	
50.02 Traffic signals and crossing protection	1,140	190	0	1,330	30	0.0806	107	
50.03 Traction power supply: substations	0	0	0	0	50	0.0725	0	
50.04 Traction power distribution: catenary and third rail	0	0	0	0	30	0.0806	0	
50.05 Communications	0	0	0	0	20	0.0944	0	
50.06 Fare collection system and equipment	0	0	0	0	25	0.0858	0	
50.07 Central Control	0	0	0	0	30	0.0806	0	
Construction Subtotal (10 - 50)		12,464	2,077	0	14,541			1,119
60 ROW, LAND, EXISTING IMPROVEMENTS		2,535		0	2,535			177
60.01 Purchase or lease of real estate		2,535			2,535	125	0.0700	177
60.02 Relocation of existing households and businesses		0			0	125	0.0700	0
70 VEHICLES (number)	12	7,100		0	7,100			894
70.01 Light Rail	0	0			0	25	0.0858	0
70.02 Heavy Rail	0	0			0	25	0.0858	0
70.03 Commuter Rail	0	0			0	25	0.0858	0
70.04 Bus	12	6,600			6,600	12	0.1259	831
70.05 Other	0	0			0	12	0.1259	0
70.06 Non-revenue vehicles	0	0			0	12	0.1259	0
70.07 Spare parts	0	500			500	12	0.1259	63
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)		2,077						
80.01 Preliminary Engineering		1,154						
80.02 Final Design		0						
80.03 Project Management for Design and Construction		692						
80.04 Construction Administration & Management		0						
80.05 Professional Liability and other Non-Construction Insurance		231						
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.		0						
80.07 Surveys, Testing, Investigation, Inspection		0						
80.08 Start up		0						
Subtotal (10 - 80)		24,176						
90 UNALLOCATED CONTINGENCY		0						
Subtotal (10 - 90)		24,176	2,077	0	24,176			2,191

Major Capital Project Costs - By Segment

(Rev.11a, June 4, 2008)

Project	(please insert your project name)	Today's Date
Location	(insert location)	Yr of Base Year Dollars
Number of Route Miles in the Segment		Number of Stations

Segment No. ___ of ___

(attach plan of segment and typical sections through segment, along with cost estimate per typical section)

	Low costs in Base Yr (X\$000) for potential cost savings*	"Most Likely" cost estimate in Base Yr (X\$000)	High costs in Base Yr Dollars (X\$000) for potential cost increases*
10 GUIDEWAY & TRACK ELEMENTS (route miles)	\$ -	\$ -	\$ -
10.01 Guideway: At-grade exclusive right-of-way			
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)			
10.03 Guideway: At-grade in mixed traffic			
10.04 Guideway: Aerial structure			
10.05 Guideway: Built-up fill			
10.06 Guideway: Underground cut & cover			
10.07 Guideway: Underground tunnel			
10.08 Guideway: Retained cut or fill			
10.09 Track: Direct fixation			
10.10 Track: Embedded			
10.11 Track: Ballasted			
10.12 Track: Special (switches, turnouts)			
10.13 Track: Vibration and noise dampening			
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	\$ -	\$ -	\$ -
20.01 At-grade station, stop, shelter, mall, terminal, platform			
20.02 Aerial station, stop, shelter, mall, terminal, platform			
20.03 Underground station, stop, shelter, mall, terminal, platform			
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.			
20.05 Joint development			
20.06 Automobile parking multi-story structure			
20.07 Elevators, escalators			
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	\$ -	\$ -	\$ -
30.01 Administration Building: Office, sales, storage, revenue counting			
30.02 Light Maintenance Facility			
30.03 Heavy Maintenance Facility			
30.04 Storage or Maintenance of Way Building			
30.05 Yard and Yard Track			
40 SITEWORK & SPECIAL CONDITIONS	\$ -	\$ -	\$ -
40.01 Demolition, Clearing, Earthwork			
40.02 Site Utilities, Utility Relocation			
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatments			
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks			
40.05 Site structures including retaining walls, sound walls			
40.06 Pedestrian / bike access and accommodation, landscaping			
40.07 Automobile, bus, van accessways including roads, parking lots			
40.08 Temporary Facilities and other indirect costs during construction			
60 ROW, LAND, EXISTING IMPROVEMENTS	\$ -	\$ -	\$ -
60.01 Purchase or lease of real estate			
60.02 Relocation of existing households and businesses			
TOTAL SEGMENT COST	\$ -	\$ -	\$ -

* Describe the risks, uncertainties, and opportunities associated with this segment, that prompted the inclusion of a low or high cost, in addition to a "most likely cost" for particular line items.

Using costs from this column, total all segments and insert into Main Worksheet Base Yr Dollars Total (X\$000)

Major Capital Project Costs - Project-wide				(Rev.11a, June 4, 2008)
Project	(please insert your project name)		Today's Date	
Location	(insert location)		Yr of Base Year Dollars	
Total Number of Route Miles in Project			Number of Stations	
Project-wide Costs				
			Low costs	in
			Base Yr (X\$000)	"Most Likely" cost
			<i>for potential cost</i>	estimate in Base Yr
			<i>savings*</i>	(X\$000)
				High costs
				in Base Yr Dollars
				(X\$000) for potential
				cost increases*
50 SYSTEMS			\$	-
50.01 Train control and signals				
50.02 Traffic signals and crossing protection				
50.03 Traction power supply: substations				
50.04 Traction power distribution: catenary and third rail				
50.05 Communications				
50.06 Fare collection system and equipment				
50.07 Central Control				
70 VEHICLES (number)			\$	-
70.01 Light Rail				
70.02 Heavy Rail				
70.03 Commuter Rail				
70.04 Bus				
70.05 Other				
70.06 Non-revenue vehicles				
70.07 Spare parts				
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)			\$	-
80.01 Preliminary Engineering				
80.02 Final Design				
80.03 Project Management for Design and Construction				
80.04 Construction Administration & Management				
80.05 Professional Liability and other Non-Construction Insurance				
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.				
80.07 Surveys, Testing, Investigation, Inspection				
80.08 Start up				
90 UNALLOCATED CONTINGENCY				
100 FINANCE CHARGES				
TOTAL PROJECT-WIDE COST			\$	-
* Describe the risks, uncertainties, and opportunities associated with this segment, that prompted the inclusion of a low or high cost, in addition to a "most likely cost" for particular line items.			Insert costs from this column into Main Worksheet Base Yr Dollars Total (X\$000)	

Attachment 3
Baseline Cost Estimate

Project Sponsor Name
Project Name

Table 1 - BCE by Standard Cost Category

<i>Applicable Line Items Only</i>	YOE Dollars Total (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	28,562
10.01 Guideway: At-grade exclusive right-of-way	0
10.02 Guideway: At-grade semi-exclusive (allows cross-traffic)	26,802
10.03 Guideway: At-grade in mixed traffic	1,760
10.04 Guideway: Aerial structure	0
10.05 Guideway: Built-up fill	0
10.06 Guideway: Underground cut & cover	0
10.07 Guideway: Underground tunnel	0
10.08 Guideway: Retained cut or fill	0
10.09 Track: Direct fixation	0
10.10 Track: Embedded	0
10.11 Track: Ballasted	0
10.12 Track: Special (switches, turnouts)	0
10.13 Track: Vibration and noise dampening	0
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	15,561
20.01 At-grade station, stop, shelter, mall, terminal, platform	14,058
20.02 Aerial station, stop, shelter, mall, terminal, platform	0
20.03 Underground station, stop, shelter, mall, terminal, platform	0
20.04 Other stations, landings, terminals: Intermodal, ferry, trolley, etc.	1,503
20.05 Joint development	0
20.06 Automobile parking multi-story structure	0
20.07 Elevators, escalators	0
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0
30.01 Administration Building: Office, sales, storage, revenue counting	#DIV/0!
30.02 Light Maintenance Facility	#DIV/0!
30.03 Heavy Maintenance Facility	#DIV/0!
30.04 Storage or Maintenance of Way Building	#DIV/0!
30.05 Yard and Yard Track	#DIV/0!
40 SITEWORK & SPECIAL CONDITIONS	1,278
40.01 Demolition, Clearing, Earthwork	0
40.02 Site Utilities, Utility Relocation	0
40.03 Haz. mat'l, contam'd soil removal/mitigation, ground water treatment	0
40.04 Environmental mitigation, e.g. wetlands, historic/archeologic, parks	0
40.05 Site structures including retaining walls, sound walls	0
40.06 Pedestrian / bike access and accommodation, landscaping	0
40.07 Automobile, bus, van accessways including roads, parking lots	1,278
40.08 Temporary Facilities and other indirect costs during construction	0
50 SYSTEMS	2,070
50.01 Train control and signals	0
50.02 Traffic signals and crossing protection	2,070
50.03 Traction power supply: substations	0
50.04 Traction power distribution: catenary and third rail	0
50.05 Communications	0
50.06 Fare collection system and equipment	0
50.07 Central Control	0
Construction Subtotal (10 - 50)	47,471
60 ROW, LAND, EXISTING IMPROVEMENTS	21,425
60.01 Purchase or lease of real estate	21,425
60.02 Relocation of existing households and businesses	0
70 VEHICLES (number)	7,337
70.01 Light Rail	0
70.02 Heavy Rail	0
70.03 Commuter Rail	0
70.04 Bus	6,670
70.05 Other	0
70.06 Non-revenue vehicles	0
70.07 Spare parts	667
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	9,539
80.01 Preliminary Engineering	5,299
80.02 Final Design	0
80.03 Project Management for Design and Construction	0
80.04 Construction Administration & Management	3,179
80.05 Professional Liability and other Non-Construction Insurance	1,061
80.06 Legal; Permits; Review Fees by other agencies, cities, etc.	0
80.07 Surveys, Testing, Investigation, Inspection	0
80.08 Start up	0
Subtotal (10 - 80)	85,772
90 UNALLOCATED CONTINGENCY	0
Subtotal (10 - 90)	85,772
100 FINANCE CHARGES	0
Total Project Cost (10 - 100)	85,772

Attachment 3
Baseline Cost Estimate

Project Sponsor Name
Project Name

Table 2 - Inflated Cost to Year of Expenditure

	Base Year Dollars w/o Contingency (X000)	Base Year Dollars Allocated Contingency (X000)	Base Year Dollars TOTAL (X000)	Inflation Factor	YOE Dollars Total (X000)
10 GUIDEWAY & TRACK ELEMENTS (route miles)	18,997	5,699	24,696	1.1565	28,562
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	10,350	3,105	13,455	1.1565	15,561
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	0	0	#DIV/0!	0
40 SITEWORK & SPECIAL CONDITIONS	850	255	1,105	1.1566	1,278
50 SYSTEMS	1,377	413	1,790	1.1565	2,070
60 ROW, LAND, EXISTING IMPROVEMENTS	14,250	4,275	18,525	1.1565	21,425
70 VEHICLES (number)	6,050	0	6,050	1.2127	7,337
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	8,248	0	8,248	1.1565	9,539
90 UNALLOCATED CONTINGENCY			0	#DIV/0!	0
100 FINANCE CHARGES			0	#DIV/0!	0
Total Project Cost (10 - 100)			73,869	1.1611	85,772

Attachment 3
Baseline Cost Estimate

Project Sponsor Name
Project Name

Table 3 - BCE by Source of Funding

	Total Project Cost in YOE Dollars (X000)	Double Check Total (X000)	Federal 5309 New Starts	Federal Other	Local
10 GUIDEWAY & TRACK ELEMENTS (route miles)	28,562	125,760	760	100,000	25,000
20 STATIONS, STOPS, TERMINALS, INTERMODAL (number)	15,561	136,781	70,000	0	66,781
30 SUPPORT FACILITIES: YARDS, SHOPS, ADMIN. BLDGS	0	13,859	7,000	0	6,859
40 SITEWORK & SPECIAL CONDITIONS	1,278	25,938	15,000	0	10,938
50 SYSTEMS	2,070	33,543	18,000	0	15,543
60 ROW, LAND, EXISTING IMPROVEMENTS	21,425	23,582	10,000	0	13,582
70 VEHICLES (number)	7,337	37,881	15,000	0	22,881
80 PROFESSIONAL SERVICES (applies to Cats. 10-50)	9,539	90,200	45,000		45,200
90 UNALLOCATED CONTINGENCY	0	24,559	4,559	0	20,000
100 FINANCE CHARGES	0	500	250	0	250
Total Project Cost (10 - 100)	85,772	512,603	185,569	100,000	227,034

Sources of Federal Funding and Matching Share Ratios				
	Costs Attributed to Source of Funds (X000)	Federal/ Local Matching Ratio within Source	All Federal Funds (X000)	Local Funds (X000)
Federal 5309 New Starts	372,602	50/50	185,568	187,034
Federal Other (pls say what..)	140,000	71/29	100,000	40,000
Total	512,602		285,568	227,034
Overall Federal Share of Project			55.71%	
New Starts Share of Project			216.35%	

Attachment 3A
Project Budget

Project Sponsor Name
Project Name

Scope and Activity Description														
Scope Code	ALI Code	Scope and Activity Line Item Descriptions	Qty		Federal 5309 New Starts			Federal Other			Project Totals			Total Project Cost in YOE Dollars (X000)
				Total Federal %	Federal	Local	Total	Federal	Local	Total	Federal	Local	Total	
14010	140110	GUIDEWAY & TRACK ELEMENTS	4.15	80.12%	759	25,000	25,759	100,000	0	100,000	100,759	25,000	125,759	28,562
14020	140220	STATIONS, STOPS, TERMINALS, INTERMODAL	30	15.71%	12,449	26,781	39,230	0	40,000	40,000	12,449	66,781	79,230	15,561
14030	140330	SUPPORT FACILITIES, YARDS, SHOPS, ADMIN. BLDGS.		50.51%	7,000	6,859	13,859	0	0	0	7,000	6,859	13,859	0
14040	140440	SITWORK & SPECIAL CONDITIONS		57.83%	15,000	10,938	25,938	0	0	0	15,000	10,938	25,938	1,278
14050	140550	SYSTEMS		53.66%	18,000	15,543	33,543	0	0	0	18,000	15,543	33,543	2,070
14060	140660	ROW, LAND, EXISTING IMPROVEMENTS		42.41%	10,000	13,582	23,582	0	0	0	10,000	13,582	23,582	21,425
14070		VEHICLES	10	39.60%	15,000	22,881	37,881	0	0	0	15,000	22,881	37,881	7,337
	13.13.20	Light Rail Cars	10											
	13.____													
14080	140880	PROFESSIONAL SERVICES		49.89%	45,000	45,200	90,200	0	0	0	45,000	45,200	90,200	9,539
14090	140990	UNALLOCATED CONTINGENCY		18.56%	4,559	20,000	24,559	0	0	0	4,559	20,000	24,559	0
14100	141010	FINANCE CHARGES		50.00%	250	250	500	0	0	0	250	250	500	0
Total Project Cost (10 - 100)				50.11%	128,017	187,034	315,051	100,000	40,000	140,000	228,017	227,034	455,051	85,772

