PROJECT DESCRIPTION TEMPLATE		
PROJECT NAME:	Honolulu Rail Transit Project, East Kapolei to Ala Moana Center	
Participating Agencies		
Lead Agency	**Name**	City and County of Honolulu, Department of Transportation Services (DTS)
	Contact Person	Wayne T. Yoshioka, Director
	Address	650 South King Street, 3rd Floor, Honolulu, HI 96813
	Telephone Number	808-768-8305
	Fax Number	808-523-4730
	Email	wyoshioka@honolulu.gov
Metropolitan Planning Organization	**Name**	Oahu Metropolitan Planning Organization (OahuMPO)
	Contact Person	Gordon Lum, Executive Director
	Address	7007 Richards Street, Suite 200, Honolulu, HI 96813
	Telephone Number	808-587-2015
	Fax Number	808-587-2018
	Email	Gordon.Lum@oahumpo.org
Transit Agency	**Name**	City and County of Honolulu, Department of Transportation Services, Public Transit Division
	Contact Person	James Burke, Chief
	Address	650 South King Street, 3rd Floor, Honolulu, HI 96813
	Telephone Number	808-768-8363
	Fax Number	808-523-4730
	Email	jburke@honolulu.gov
State Department of Transportation	**Name**	State of Hawai'i, Department of Transportation
	Contact Person	Brennon Morioka, Director
	Address	869 Punchbowl Street, Honolulu, HI 96813
	Telephone Number	808-587-2150
	Fax Number	808-587-2167
	Email	Brennan.Morioka@hawaii.gov
Other Relevant Agencies	**Name**	City and County of Honolulu, DTS Rapid Transit Division
	Contact Person	Kenneth Hamayasu
	Address	1099 Alakea Street, 17th Floor
	Telephone Number	808-768-8344
	Fax Number	808-567-6080
	Email	thamayasu@honolulu.gov
Other Relevant Agencies	**Name**	
	Contact Person	
	Address	
	Telephone Number	
	Fax Number	
	Email	
Other Relevant Agencies	**Name**	
	Contact Person	
	Address	
	Telephone Number	
	Fax Number	
	Email	

PROJECT DESCRIPTION TEMPLATE (Page 2)

Project Definition	**Length (miles)**	20.06	
	Mode/Technology	Fixed Guideway in Exclusive Right-of-Way	
	Number of Stations	21	
	List each station separately, including the number of park and ride spaces at each and whether structured or surface parking	East Kapolei	surface P&R - 900 stalls.
		UH West O'ahu	surface P&R - 1,000 stalls.
		Ho'opili	
		West Loch	
		Waipahu Transit Center	
		Leeward Community College	
		Pearl Highlands	structured P&R - 1,600 stalls.
		Pearlridge	
		Aloha Stadium	surface P&R - 600 stalls.
		Pearl Harbor	
		Honolulu International Airport	
		Lagoon Drive	
		Middle Street Transit Center	
		Kalihi	
		Kapālama	
		Iwilei	
		Chinatown	
		Downtown	
		Civic Center	
		Kaka'ako	
		Ala Moana Center	
	List each station with major transfer facilities to other modes	UH West O'ahu - bus and drive	
		West Loch - bus	
		Waipahu Transit Center - bus	
		Pearl Highlands - bus and drive	
		Pearl Ridge - bus	
		Aloha Stadium - bus and drive	
		Middle Street Transit Center - bus and drive	
		Ala Moana Center - bus	
	Number of vehicles/rolling stock	67 for opening year	
Type of Alignment by Segment (Number of Miles)	**Above grade**	19.48	
	Below grade	0	
	At grade	0.58	
	Exclusive	20.06	
	Mixed Traffic	0	
Status of Existing Right of Way	**Ownership – who owns the right of way?**	Majority of corridor is in existing City and State roadway right-of-way.	
	Current Use: active freight or passenger service?	Roadway, no existing rail in corridor.	

PROJECT DESCRIPTION TEMPLATE (Page 3)

Project Planning Dates	**Base Year**	**Opening Year**	**Forecast Year**
	2007	2019	2030
Capital Cost Estimate	**2009 constant dollars**	$	4,461,965,000
	Year of Expenditure	$	5,173,083,000
Levels of Service	**Headways**		
	Weekday Peak	3 minutes	3 minutes
	Weekday Off-peak	6 minutes	6 minutes
	Weekday Evening	10 minutes	10 minutes
	Weekend	6 minutes base; 10 minutes evening	6 minutes base; 10 minutes evening
	Hours of Service		
	Weekday	4 a.m. to 12 a.m.	4 a.m. to 12 a.m.
	Weekend	Saturday: 5 a.m. to 12 a.m.; Sunday: 6 a.m. to 12 a.m.	Saturday: 5 a.m. to 12 a.m.; Sunday: 6 a.m. to 12 a.m.
Opening Year Travel Forecast		101,000 average weekday guideway boardings	
Fare Policy Assumptions Used in Travel Forecasts [footnote 1]		Single fare for all transit modes with free transfers. Current cash fare is $2.00; several discounted fare media available. Same fare structure assumed for future (with average fare adjusted for inflation).	
Project Planning and Development Schedule	***Project Schedule***		
	Insert anticipated or actual dates/durations		
	Planning Studies Initiated		Aug-2005
	Planning Studies Completed		Oct-2006
	LPA selected		Dec-2006
	LPA included in the financially constrained long range plan		May-2007
	Included in Financially Constrained TIP		May-2007
	Initiation of DEIS		Mar-2007
	Completion of DEIS		Nov-2008
	Initiation of FEIS		Feb-2009
	Completion of FEIS		Sep-2009 (est.)
	Public Referenda (where applicable)		N/A
	Preliminary Engineering (duration – dates of beginning and ending)		Jul-2009 - Mar-2010 (est.)
	Final Design (duration)		52 months (est.)
	FFGA- submit request to award (duration)		8 months (est.)
	Construction (duration)		9 years (est.)
	Testing (duration)		8 months (est.)
	Revenue Operations		In phases - entire project - Mar-2019 (est.)
Project Management			
Project Manager	**Name**	Toru Hamayasu	
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813	
	Phone	808-768-8343	
	Fax	808-567-6080	
	Email	thamayasu@honolulu.gov	
Agency CEO	**Name**	Wayne T. Yoshioka	
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813	
	Phone	808-768-8343	
	Fax	808-567-6080	
	Email	thamayasu@honolulu.gov	
Key Agency Staff: Overall New Starts Criteria	**Name**	Toru Hamayasu	
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813	
	Phone	808-768-8343	
	Fax	808-567-6080	
	Email	thamayasu@honolulu.gov	

PROJECT DESCRIPTION TEMPLATE (Page 4)		
Project Management (continued)		
Key Agency Staff: Ridership Forecasts	**Name**	Toru Hamayasu
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813
	Phone	808-768-8343
	Fax	808-567-6080
	Email	thamayasu@honolulu.gov
Key Agency Staff: Cost Estimates	**Name**	Toru Hamayasu
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813
	Phone	808-768-8343
	Fax	808-567-6080
	Email	thamayasu@honolulu.gov
Key Agency Staff: Environmental Documentation	**Name**	Faith Miyamoto
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813
	Phone	808-768-8350
	Fax	808-567-6080
	Email	fmiyamoto@honolulu.gov
Key Agency Staff: Land Use Assessment	**Name**	Faith Miyamoto
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813
	Phone	808-768-8350
	Fax	808-567-6080
	Email	fmiyamoto@honolulu.gov
Key Agency Staff: Financial Assessment	**Name**	Phyllis Kurio
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813
	Phone	808-768-8347
	Fax	808-567-6080
	Email	pkurio@honolulu.gov
Key Agency Staff: Project Maps	**Name**	Faith Miyamoto
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813
	Phone	808-768-8350
	Fax	808-567-6080
	Email	fmiyamoto@honolulu.gov
Contractors		
Current Prime Contractor	**Name**	Parsons Brinckerhoff
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813
	Phone	808-768-6195
	Fax	808-567-6080
	Email	vanepps@pbworld.com
Prime Contractor: Project Manager	**Name**	James Van Epps
	Address	1099 Alakea St, 17th Floor, Honolulu, HI 96813
	Phone	808-768-6157
	Fax	808-567-6080
	Email	vanepps@pbworld.com
Contractor Responsible for Travel Forecasts	**Name**	William Davidson
	Address	303 Second Street, Suite 700 North, San Francisco, CA 94107
	Phone	415-243-4601
	Fax	415-243-9501
	Email	davidson@pbworld.com
Contractor Responsible for Capital Cost Estimates	**Name**	James Dunn
	Address	1003 Bishop St, Ste 2250, Pauahi Tower, Honolulu, HI 96813
	Phone	808-694-3220
	Fax	808-694-3299
	Email	dunnj@pbworld.com

TRAVEL FORECASTS TEMPLATE

PROJECT NAME: Honolulu Rail Transit Project, East Kapolei to Ala Moana Center

Line	Trip-Purpose-Specific Information	Source	JTW-HBW & HBNW	JTW-work & non based	HBSchool	HBCollege	HBShop	HBOther	NHB		DAILY TOTAL
1	Daily transit trips, Baseline Alternative	Summit: table 30	91,831	16,967	20,849	15,506	12,613	39,221	5,133		202,120
2	Daily transit trips, Build Alternative	Summit: table 40	119,586	20,637	22,685	20,533	13,294	41,146	5,462		243,343
3	Daily person trips, Build Alternative	Summit: table 20	851,481	276,269	288,013	68,674	287,356	958,331	504,859		3,234,983
4	Daily hours of user benefits (UB)	Summit: table 70 / 60	22,276	2,653	3,357	4,723	1,460	4,811	556		39,837
5	Positive UB hours from coverage changes	Summit: (tables 44+47+48) / 60	242	90	461	85	133	173	152		1,336
6	Daily hours of user benefits lost to capping	Summit: capping impact / 60	4,354	220	497	807	84	86	5		6,054
7	Daily hours of UBs for transit dependents	Summit: standard report	3,828	0	643	640	586	2,238	0		7,935
	Trip-Purpose-Specific Quality-Control Measures										
8	Daily new transit trips		27,755	3,670	1,836	5,027	681	1,925	329	0	41,223
9	Daily new transit trips -- distribution (%)		67%	9%	4%	12%	2%	5%	1%	0%	100%
10	Daily user benefits -- distribution (%)		56%	7%	8%	12%	4%	12%	1%	0%	100%
11	Daily transit trips, Baseline Alternative -- distribution (%)		45%	8%	10%	8%	6%	19%	3%	0%	100%
12	Percent of user benefits lost to capping		16%	8%	13%	15%	5%	2%	1%	0%	13%
13	Percent of user benefits accruing to transit dependents		17%	0%	19%	14%	40%	47%	0%	0%	20%

Line	Special-Markets Information	Source	NHB Direct Demand	JTW-HBW & HBNW Altern. Specific	JTW-work & non based Altern. Specific	NWR Altern. Specific	Visitor	Visitor Altern. Specific	Air Passenger	Air Passenger Altern. Specific	ANNUAL TOTAL
14	Special-market project trips per event-day	Special-market forecasts	**17,176**	**N.A.**	**N.A.**	**N.A.**	**8,116**	**N.A.**	**2,542**	**N.A.**	9,069,709
15	Special-market UB hours per event-day	Special-market forecasts	**4,543**	**10,089**	**1,197**	**4,544**	**2,193**	**1,095**	**1,170**	**327**	8,197,550
16	Special-market pass-miles per event-day	Special-market forecasts	**73,889**	**N.A.**	**N.A.**	**N.A.**	**85,918**	**N.A.**	**17,712**	**N.A.**	57,844,566
17	Annualization factor (event-days / year)	Special-market forecasts	326	326	326	326	326	326	326	326	---
	Special-Markets Quality-Control Measures										
18	Annual new transit trips, special markets only -- distribution (%)		62%	N.A.	N.A.	N.A.	29%	N.A.	9%	N.A.	100%
19	Annual user benefits, special markets only -- distribution (%)		18%	40%	5%	18%	9%	4%	5%	1%	100%
20	Minutes of user benefits per project trip, special markets only		16	N.A.	N.A.	N.A.	16	N.A.	28	N.A.	17

Line	General Information	Source	Entry	General Information	Source	Entry
21	Annualization factor (days/year)	Current/similar guideway	**326**	Person trips by transit dependents	Travel forecasts	**194,038**
22	Daily project trips, no special mkts	Travel forecasts	**93,533**	Person trips (stratified trip purposes only)	Travel forecasts	**2,453,855**
23	Daily project trips, transit dependents	Travel forecasts	**18,604**	Station-area employees (within 1/2 mile)	Linked from Land Use Template	220,691
24	Daily project pass-miles, no special mkts	Travel forecasts	**923,111**	Station-area residents (within 1/2 mile)	Linked from Land Use Template	144,390
25	Daily project pass-miles, trn dependents	Travel forecasts	**154,465**	Project length (miles)	Linked from Project Descrip Template	20.1

	General Quality Control Measures (Excluding Special Markets)	Value	General Quality Control Measures (Excluding Special Markets)	Value
26	Minutes of user benefits per daily project trip (before capping)	30.6	Daily project trips per station area employee	25.43
27	Minutes of user benefits per daily project trip (after capping)	25.6	Daily project trips per station area resident	38.87
28	Percent of user benefits that are coverage related	3%	Daily minutes of user benefits per station area employee	10.83
29	Percent of user benefits that are off-model	0%	Daily minutes of user benefits per station area resident	16.55
30	Percent of project trips that are new transit trips	44%		
31	Average trip distance on project (mi.) [pass-miles / (proj. trips x proj. length)]	49%		

MOBILITY AND COST-EFFECTIVENESS TEMPLATE

PROJECT NAME:	Honolulu Rail Transit Project, East Kapolei to Ala Moana Center

Mobility Improvements

	Column:	A	B	C	D	E	
		Alternative					
Line	Item	New Starts Baseline	New Starts Build	Difference	Annualization Factor	Annual Value	Source/Calculation
1	Transit trips for model-based trip purposes	202,120	243,343	41,223	325.9	13,432,515	Linked from the Travel Forecasts template
2	Transit trips for special markets	---	---	---	---	9,069,709	Linked from the Travel Forecasts template
3	Transit trips total	---	---	---	---	22,502,223	Sum of lines 1 and 2
4	User benefits for model-based purposes (hrs)	---	---	39,837	325.9	12,980,946	Linked from the Travel Forecasts template
5	User benefits for special markets (hrs)	---	---	---	---	2,576,192	Linked from the Travel Forecasts template
6	User benefits total (hrs)	---	---	---	---	15,557,138	Sum of lines 4 and 5
7	Project trips for model-based trip purposes	---	---	93,533	325.9	30,477,728	Linked from the Travel Forecasts template
8	Project trips for special markets	---	---	---	---	9,069,709	Linked from the Travel Forecasts template
9	Project trips total	---	---	---	---	39,547,437	Sum of lines 7 and 8
10	Project passenger-miles for model-based trip purposes	---	---	923,111	325.9	300,795,719	Linked from the Travel Forecasts template
11	Project passenger-miles for special markets	---	---	---	---	57,844,566	Linked from the Travel Forecasts template
12	Project passenger-miles total	---	---	---	---	358,640,286	Sum of lines 10 and 11
13	User benefits per project pass-mile for all riders (mins)	---	---	---	---	2.6	Line 6 divided by line 12 (times 60 mins/hr)
14	User benefits for transit dependents	---	---	7,935	325.9	2,585,620	Linked from the Travel Forecasts template
15	Project trips by transit dependents	---	---	18,604	325.9	6,062,113	Linked from the Travel Forecasts template
16	Project passenger-miles by transit dependents	---	---	154,465	325.9	50,332,420	Linked from the Travel Forecasts template
17	User benefits per pass-mile for transit dependents	---	---	---	---	3.1	Line 14 divided by line 16 (times 60 mins/hr)
18	Share of UBs to transit dependents (percent)	---	---	---	---	16.6%	Line 14 divided by line 6
19	Share of person trips by transit dependents (percent)	---	---	---	---	7.9%	TF template cell L30 / TF template cell L31
20	Transit dependents: (share of UBs) / (share of pers-trips)	---	---	---	---	2.1	Line 18 divided by line 19

Cost Effectiveness

		Alternative				
Line	Item	New Starts Baseline	New Starts Build	Difference	Value	Source/Calculation
21	Annualized capital cost (millions of constant 2009 dollars)	$ 68,747,000	$ 380,299,000	$ 311,552,000	---	Source: SSC Worksheets
22	Total systemwide annual operating and maintenance cost (millions of constant 2009 dollars)	$ 240,225,000	$ 266,759,000	$ 26,534,000	---	Source: O&M cost models (attach documentation).
23	Total annualized cost in forecast year (millions of constant 2009 dollars)	$ 308,972,000	$ 647,058,000	$ 338,086,000	---	Sum of lines 21 and 22
24	Annual user benefits total (hours)	---	---	15,557,138	---	Line 6
25	Cost-Effectiveness: incremental annualized cost / annualized user benefits ($/hour)	---	---	---	$21.73	Line 23 divided by line 24
26	Total transit ridership	65,860,802	88,363,025	22,502,223		Linked from Travel Forecasts template
27	Cost Per New Transit Trip: incremental annualized cost / incremental annual transit trips ($/new trip)				$15.02	Line 23 divided by line 26

MOBILITY AND COST-EFFECTIVENESS TEMPLATE

PROJECT NAME:	Honolulu Rail Transit Project, East Kapolei to Ala Moana Center

Mobility Improvements - Including User Benefits Associated with Non-Included Attributes

	Column:	A	B	C	D	E	
		Alternative					
Line	Item	New Starts Baseline	New Starts Build	Difference	Annualization Factor	Annual Value	Source/Calculation
1	Transit trips for model-based trip purposes	202,120	243,343	41,223	325.9	13,432,515	Linked from the Travel Forecasts template
2	Transit trips for special markets	---	---	---	---	9,069,709	Linked from the Travel Forecasts template
3	Transit trips total	---	---	---	---	22,502,223	Sum of lines 1 and 2
4	User benefits for model-based purposes (hrs)	---	---	39,837	325.9	12,980,946	Linked from the Travel Forecasts template
5	User benefits for special markets (hrs)	---	---	---	---	8,197,550	Linked from the Travel Forecasts template
6	User benefits total (hrs)	---	---	---	---	21,178,496	Sum of lines 4 and 5
7	Project trips for model-based trip purposes	---	---	93,533	325.9	30,477,728	Linked from the Travel Forecasts template
8	Project trips for special markets	---	---	---	---	9,069,709	Linked from the Travel Forecasts template
9	Project trips total	---	---	---	---	39,547,437	Sum of lines 7 and 8
10	Project passenger-miles for model-based trip purposes	---	---	923,111	325.9	300,795,719	Linked from the Travel Forecasts template
11	Project passenger-miles for special markets	---	---	---	---	57,844,566	Linked from the Travel Forecasts template
12	Project passenger-miles total	---	---	---	---	358,640,286	Sum of lines 10 and 11
13	User benefits per project pass-mile for all riders (mins)	---	---	---	---	3.5	Line 6 divided by line 12 (times 60 mins/hr)
14	User benefits for transit dependents	---	---	7,935	325.9	2,585,620	Linked from the Travel Forecasts template
15	Project trips by transit dependents	---	---	18,604	325.9	6,062,113	Linked from the Travel Forecasts template
16	Project passenger-miles by transit dependents	---	---	154,465	325.9	50,332,420	Linked from the Travel Forecasts template
17	User benefits per pass-mile for transit dependents	---	---	---	---	3.1	Line 14 divided by line 16 (times 60 mins/hr)
18	Share of UBs to transit dependents (percent)	---	---	---	---	12.2%	Line 14 divided by line 6
19	Share of person trips by transit dependents (percent)	---	---	---	---	7.9%	TF template cell L30 / TF template cell L31
20	Transit dependents: (share of UBs) / (share of pers-trips)	---	---	---	---	1.5	Line 18 divided by line 19

Cost Effectiveness

		Alternative				
Line	Item	New Starts Baseline	New Starts Build	Difference	Value	Source/Calculation
21	Annualized capital cost (millions of constant 2009 dollars)	$ 68,747,000	$ 380,299,000	$ 311,552,000	---	Source: SSC Worksheets
22	Total systemwide annual operating and maintenance cost (millions of constant 2009 dollars)	$ 240,225,000	$ 266,759,000	$ 26,534,000	---	Source: O&M cost models (attach documentation).
23	Total annualized cost in forecast year (millions of constant 2009 dollars)	$ 308,972,000	$ 647,058,000	$ 338,086,000	---	Sum of lines 21 and 22
24	Annual user benefits total (hours)	---	---	21,178,496	---	Line 6
25	Cost-Effectiveness: incremental annualized cost / annualized user benefits ($/hour)	---	---	---	$15.96	Line 23 divided by line 24
26	Total transit ridership	65,860,802	88,363,025	22,502,223		Linked from Travel Forecasts template
27	Cost Per New Transit Trip: incremental annualized cost / incremental annual transit trips ($/new trip)				$15.02	Line 23 divided by line 26

LAND USE (QUANTITATIVE) TEMPLATE

PROJECT NAME:	Honolulu Rail Transit Project, East Kapolei to Ala Moana Center

Population and Employment – Metropolitan Area, CBD, and Corridor			
Item	Base Year 2007	Forecast Year 2030	Growth (%)
Metropolitan Area			
Total Population	928,812	1,117,200	20.3%
Total Employment	531,802	632,711	19.0%
Central Business District [see footnote 1]			
Total Employment	49,382	53,025	7.4%
Employment – Percent of Metropolitan Area	9.3%	8.4%	---
CBD Lane Area (sq. mi.)	0.42	0.42	
Employment Density (e.g., jobs per sq. mi.)	118,978	127,756	---
Corridor			
Total Population	589,593	764,640	29.7%
Total Employment	434,847	524,240	20.6%
Population – Percent of Metropolitan Area	63%	68%	---
Employment – Percent of Metropolitan Area	82%	83%	---
Corridor Land Area (sq. mi.)	151.3	151.3	---
Population Density (persons per sq. mi.)	3,897	5,054	---
Employment Density (jobs per sq. mi.)	2,874	3,465	---
Total All Station Areas (1/2-mile radius) [See footnote 2]			
Housing Units	35,743	63,659	78.1%
Population	87,414	144,390	65.2%
Employment	192,987	220,691	14.4%
Land Area (square miles)	13.2	13.2	---
Housing Unit Density (units per sq. mi.)	2,704	4,815	---
Population Density (persons per sq. mi.)	6,612	10,922	---
Employment Density (persons per sq. mi.)	14,598	16,694	---
Station Area Clusters (Calculated per Appendix A of July 2008 *Reporting Instructions for the Section 5309 New Starts Criteria*)			
Station Area Cluster 1 Station Name:	East Kapolei (#1) to Ho'opili Station (#3)		
Housing Units	197	4,268	2066.5%
Population	545	13,906	2451.6%
Employment	907	3,721	310.3%
Land Area (square miles)	2.39	2.39	---
Housing Unit Density (units per sq. mi.)	231	5,000	---
Population Density (persons per sq. mi.)	638	16,289	---
Employment Density (persons per sq. mi.)	1,062	4,359	---
Station Area Cluster 2 Station Name:	West Loch Station (#4)		
Housing Units	2,093	2,365	13.0%
Population	8,079	8,508	5.3%
Employment	4,235	4,805	13.5%
Land Area (square miles)	0.77	0.77	---
Housing Unit Density (units per sq. mi.)	2,452	2,770	---
Population Density (persons per sq. mi.)	9,464	9,966	---
Employment Density (persons per sq. mi.)	4,961	5,629	---
Station Area Cluster 3 Station Name:	Waipahu Transit Center (#5)		
Housing Units	1,959	2,269	15.8%
Population	2,729	3,170	16.2%
Employment	7,775	8,247	6.1%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	2,295	2,658	---
Population Density (persons per sq. mi.)	3,197	3,713	---
Employment Density (persons per sq. mi.)	9,108	9,661	---

LAND USE (QUANTITATIVE) TEMPLATE (page 2)

	Base Year	Forecast Year	Growth (%)
Station Area Cluster 4 — **Station Name:**	**Leeward CC (#6) & Pearl Highlands (#7)**		
Housing Units	1,757	2,288	30.2%
Population	5,607	6,769	20.7%
Employment	2,785	4,796	72.2%
Land Area (square miles)	1.23	1.23	---
Housing Unit Density (units per sq. mi.)	2,058	2,680	---
Population Density (persons per sq. mi.)	6,568	7,929	---
Employment Density (persons per sq. mi.)	3,262	5,618	---
Station Area Cluster 5 — **Station Name:**	**Pearlridge (#8)**		
Housing Units	2,274	2,296	1.0%
Population	5,639	5,496	-2.5%
Employment	7,105	7,864	10.7%
Land Area (square miles)	0.60	0.60	---
Housing Unit Density (units per sq. mi.)	2,664	2,690	---
Population Density (persons per sq. mi.)	6,606	6,438	---
Employment Density (persons per sq. mi.)	8,323	9,212	---
Station Area Cluster 6 — **Station Name:**	**Aloha Stadium (#9)**		
Housing Units	1,123	1,274	13.4%
Population	4,095	4,501	9.9%
Employment	1,199	1,381	15.2%
Land Area (square miles)	0.64	0.64	---
Housing Unit Density (units per sq. mi.)	1,315	1,492	---
Population Density (persons per sq. mi.)	4,797	5,272	---
Employment Density (persons per sq. mi.)	1,405	1,618	---
Station Area Cluster 7 — **Station Name:**	**Pearl Harbor (#10)**		
Housing Units	489	492	0.6%
Population	1,211	1,189	-1.8%
Employment	4,822	4,978	3.2%
Land Area (square miles)	0.83	0.83	---
Housing Unit Density (units per sq. mi.)	573	576	---
Population Density (persons per sq. mi.)	1,419	1,393	---
Employment Density (persons per sq. mi.)	5,648	5,831	---
Station Area Cluster 8 — **Station Name:**	**Honolulu International Airport (#11)**		
Housing Units	404	410	1.5%
Population	1,355	1,326	-2.1%
Employment	8,345	9,030	8.2%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	473	480	---
Population Density (persons per sq. mi.)	1,587	1,553	---
Employment Density (persons per sq. mi.)	9,775	10,578	---
Station Area Cluster 9 — **Station Name:**	**Lagoon Drive (#12) to Ala Moana Center (#21)**		
Housing Units	25,447	47,997	88.6%
Population	58,154	99,525	71.1%
Employment	155,814	175,869	12.9%
Land Area (square miles)	5.06	5.06	---
Housing Unit Density (units per sq. mi.)	29,809	56,224	---
Population Density (persons per sq. mi.)	68,122	116,583	---
Employment Density (persons per sq. mi.)	182,520	206,013	---

LAND USE (QUANTITATIVE) TEMPLATE (page 3)

	Base Year	Forecast Year	Growth (%)
Individual Station Areas [See footnote 3]			
Station Area 1 [See footnote 3.] Station Name:	East Kapolei		
Housing Units	134	1,351	908.2%
Population	459	4,413	861.4%
Employment	545	1,787	227.9%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	157	1,583	---
Population Density (persons per sq. mi.)	538	5,169	---
Employment Density (persons per sq. mi.)	638	2,093	---
Station Area 2 Station Name:	UH West O'ahu		
Housing Units	27	1,360	4937.0%
Population	95	4,428	4561.1%
Employment	373	1,413	278.8%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	32	1,593	---
Population Density (persons per sq. mi.)	111	5,187	---
Employment Density (persons per sq. mi.)	437	1,655	---
Station Area 3 Station Name:	Ho'opili		
Housing Units	49	1,873	3722.4%
Population	1	6,096	609500.0%
Employment	29	737	2441.4%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	57	2,193	---
Population Density (persons per sq. mi.)	1	7,138	---
Employment Density (persons per sq. mi.)	34	863	---
Station Area 4 Station Name:	West Loch		
Housing Units	2,093	2,365	13.0%
Population	8,079	8,508	5.3%
Employment	4,235	4,805	13.5%
Land Area (square miles)	0.77	0.77	---
Housing Unit Density (units per sq. mi.)	2,716	3,069	---
Population Density (persons per sq. mi.)	10,483	11,040	---
Employment Density (persons per sq. mi.)	5,495	6,235	---
Station Area 5 Station Name:	Waipahu Transit Center		
Housing Units	1,959	2,269	15.8%
Population	2,729	3,170	16.2%
Employment	7,775	8,247	6.1%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	2,295	2,658	---
Population Density (persons per sq. mi.)	3,197	3,713	---
Employment Density (persons per sq. mi.)	9,108	9,661	---
Station Area 6 Station Name:	Leeward Community College		
Housing Units	887	1,255	41.5%
Population	3,191	4,013	25.8%
Employment	1,375	1,976	43.7%
Land Area (square miles)	0.83	0.83	---
Housing Unit Density (units per sq. mi.)	1,065	1,507	---
Population Density (persons per sq. mi.)	3,833	4,820	---
Employment Density (persons per sq. mi.)	1,651	2,373	---
Station Area 7 Station Name:	Pearl Highlands		
Housing Units	1,336	1,717	28.5%
Population	3,801	4,655	22.5%
Employment	2,279	4,225	85.4%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	1,565	2,011	---
Population Density (persons per sq. mi.)	4,453	5,453	---
Employment Density (persons per sq. mi.)	2,670	4,949	---

LAND USE (QUANTITATIVE) TEMPLATE (page 4)

	Base Year	Forecast Year	Growth (%)
Station Area 8 — Station Name:	Pearlridge		
Housing Units	2,274	2,296	1.0%
Population	5,639	5,496	-2.5%
Employment	7,105	7,864	10.7%
Land Area (square miles)	0.60	0.60	---
Housing Unit Density (units per sq. mi.)	3,794	3,831	---
Population Density (persons per sq. mi.)	9,409	9,170	---
Employment Density (persons per sq. mi.)	11,855	13,121	---
Station Area 9 — Station Name:	Aloha Stadium		
Housing Units	1,123	1,274	13.4%
Population	4,095	4,501	9.9%
Employment	1,199	1,381	15.2%
Land Area (square miles)	0.64	0.6	---
Housing Unit Density (units per sq. mi.)	1,767	2,005	---
Population Density (persons per sq. mi.)	6,445	7,084	---
Employment Density (persons per sq. mi.)	1,887	2,174	---
Station Area 10 — Station Name:	Pearl Harbor		
Housing Units	489	492	0.6%
Population	1,211	1,189	-1.8%
Employment	4,822	4,978	3.2%
Land Area (square miles)	0.83	0.8	---
Housing Unit Density (units per sq. mi.)	589	593	---
Population Density (persons per sq. mi.)	1,459	1,433	---
Employment Density (persons per sq. mi.)	5,811	5,999	---
Station Area 11 — Station Name:	Honolulu International Airport		
Housing Units	404	410	1.5%
Population	1,355	1,326	-2.1%
Employment	8,345	9,030	8.2%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	473	480	---
Population Density (persons per sq. mi.)	1,587	1,553	---
Employment Density (persons per sq. mi.)	9,775	10,578	---
Station Area 12 — Station Name:	Lagoon Drive		
Housing Units	289	311	7.6%
Population	924	962	4.1%
Employment	9,424	9,789	3.9%
Land Area (square miles)	0.77	0.77	---
Housing Unit Density (units per sq. mi.)	375	403	---
Population Density (persons per sq. mi.)	1,198	1,247	---
Employment Density (persons per sq. mi.)	12,220	12,694	---
Station Area 13 — Station Name:	Middle Street Transit Center		
Housing Units	1,096	1,273	16.1%
Population	4,611	5,066	9.9%
Employment	11,725	12,150	3.6%
Land Area (square miles)	0.78	0.78	---
Housing Unit Density (units per sq. mi.)	1,411	1,639	---
Population Density (persons per sq. mi.)	5,936	6,522	---
Employment Density (persons per sq. mi.)	15,094	15,641	---

LAND USE (QUANTITATIVE) TEMPLATE (page 5)

	Base Year	Forecast Year	Growth (%)
Station Area 14 — **Station Name:**	**Kalihi**		
Housing Units	3,259	3,755	15.2%
Population	13,136	14,745	12.2%
Employment	15,118	16,010	5.9%
Land Area (square miles)	0.85	0.85	---
Housing Unit Density (units per sq. mi.)	3,818	4,399	---
Population Density (persons per sq. mi.)	15,388	17,273	---
Employment Density (persons per sq. mi.)	17,710	18,755	---
Station Area 15 — **Station Name:**	**Kapālama**		
Housing Units	2,590	3,357	29.6%
Population	7,889	10,196	29.2%
Employment	16,707	18,301	9.5%
Land Area (square miles)	0.81	0.81	---
Housing Unit Density (units per sq. mi.)	3,182	4,124	---
Population Density (persons per sq. mi.)	9,692	12,526	---
Employment Density (persons per sq. mi.)	20,525	22,484	---
Station Area 16 — **Station Name:**	**Iwilei**		
Housing Units	6,145	9,866	60.6%
Population	15,565	24,219	55.6%
Employment	16,354	20,577	25.8%
Land Area (square miles)	0.81	0.81	---
Housing Unit Density (units per sq. mi.)	7,576	12,163	---
Population Density (persons per sq. mi.)	19,189	29,858	---
Employment Density (persons per sq. mi.)	20,162	25,368	---
Station Area 17 — **Station Name:**	**Chinatown**		
Housing Units	6,920	12,696	83.5%
Population	14,756	26,501	79.6%
Employment	47,875	53,905	12.6%
Land Area (square miles)	0.70	0.70	---
Housing Unit Density (units per sq. mi.)	9,902	18,167	---
Population Density (persons per sq. mi.)	21,114	37,920	---
Employment Density (persons per sq. mi.)	68,504	77,133	---
Station Area 18 — **Station Name:**	**Downtown**		
Housing Units	5,192	10,445	101.2%
Population	10,059	18,815	87.0%
Employment	53,216	58,252	9.5%
Land Area (square miles)	0.59	0.59	---
Housing Unit Density (units per sq. mi.)	8,828	17,761	---
Population Density (persons per sq. mi.)	17,104	31,993	---
Employment Density (persons per sq. mi.)	90,488	99,051	---
Station Area 19 — **Station Name:**	**Civic Center**		
Housing Units	5,385	17,068	217.0%
Population	8,753	28,290	223.2%
Employment	26,261	32,200	22.6%
Land Area (square miles)	0.77	0.77	---
Housing Unit Density (units per	7,030	22,281	---
Population Density (persons per	11,426	36,931	---
Employment Density (persons per	34,282	42,035	---
Station Area 20 — **Station Name:**	**Kaka'ako**		
Housing Units	3,775	13,058	245.9%
Population	7,076	22,288	215.0%
Employment	51,499	58,366	13.3%
Land Area (square miles)	0.79	0.79	---
Housing Unit Density (units per sq. mi.)	4,786	16,554	---
Population Density (persons per sq. mi.)	8,970	28,255	---
Employment Density (persons per sq. mi.)	65,287	73,992	---

LAND USE (QUANTITATIVE) TEMPLATE (page 6)			
	Base Year	Forecast Year	Growth (%)
Station Area 21 Station Name:	Ala Moana Center		
Housing Units	8,372	13,969	66.9%
Population	13,859	23,534	69.8%
Employment	30,182	34,875	15.5%
Land Area (square miles)	0.77	0.77	---
Housing Unit Density (units per	10,804	18,027	---
Population Density (persons per	17,885	30,370	---
Employment Density (persons per	38,949	45,005	---

[1] Optionally, employment for the largest activity center(s) served by the New Start project may be reported.

[2] See Appendix A for a sample methodology for estimating station area population, households, and employment.

[3] Reporting of data by individual station area is required.

FINANCE TEMPLATE

PROJECT NAME:	Honolulu Rail Transit Project, East Kapolei to Ala Moana Center		
Total Capital Cost of Project in Millions of Constant 2009 Dollars (from the SCC Main Worksheet)	$ 4,462	Total Capital Cost of Project in Millions of YOE dollars (including finance charges, cost of PE and FD, and construction): (from SCC Main Worksheet)	$ 5,173
Section 5309 New Starts Funding Anticipated (YOE $):	$ 1,550	Section 5309 New Starts Share of Project Cost:	30.0%
Estimated Cost of Preliminary Engineering (YOE $): including engineering in support of the NEPA process, preliminary engineering, and New Starts preliminary engineering	$ 84	Estimated Cost of Final Design (YOE $): including design activities by design-build contractors	$ 139
Total Finance Charges Included in Capital Cost (include finance charges that are expected prior to either the revenue operations date or the fulfillment of the Section 5309 New Starts funding commitment, even if the financing charges are incurred by a funding partner that is not the project sponsor): (from SCC Main Worksheet)			$ 312

Other Federal Capital Funding Sources (Non-5309 New Starts Funds such as FTA Section 5307, Surface Transportation Program (STP), Congestion Mitigation and Air Quality (CMAQ), Section 5309 Rail Modernization,	Type of Funds	Dollar Amount (millions of YOE dollars)	% of Total Capital Cost
FTA Section 5307	FTA Section 5307	$ 305	5.9%
2)			0.0%
3)			0.0%
State Capital Funding Sources (Funds provided by State agencies or legislatures such as bonds, dedicated sales tax, annual legislative appropriation, transportation trust funds, etc.)	**Type of Funds**	**Dollar Amount (millions of YOE dollars)**	**% of Total Capital Cost**
1)			0.0%
2)			0.0%
3)			0.0%
Local Capital Funding Sources (Municipal, City, County, Township, or Regional funding such as bonds, sales tax, legislative appropriation, transportation trust funds, etc.)	**Type of Funds**	**Dollar Amount (millions of YOE dollars)**	**% of Total Capital Cost**
General Excise and Use Tax Surcharge	GET surcharge	$ 3,318	64.1%
2)			0.0%
3)			0.0%
Private Sector/In-kind match/Other (Donations of right-of-way, construction of stations or parking, or funding for the project from a non-governmental entity, business, or business assoc.)	**Type of Funds**	**Dollar Amount (millions of YOE dollars)**	**% of Total Capital Cost**
1)			0.0%
2)			0.0%
3)			0.0%
TOTAL NON-SECTION 5309 FUNDING (millions of YOE dollars)		$ 3,623	70.0%
QA/QC CHECK: TOTAL CAPITAL COSTS LESS SECTION 5309 FUNDING LESS NON-SEC. 5309 FUNDING (SHOULD EQUAL $0)		$0	---

FINANCE TEMPLATE (page 2)			
New Starts Project Financial Commitment			
Other Federal Sources (Linked from page 1)	**Specify Whether New or Existing Funding Source**	**Specify Status of Funds -- Committed, Budgeted, or Planned (See notes below)**	**Identify Supporting Documentation Submitted to Verify Funding Source**
FTA Section 5307	Existing	Committed	From Surface Transportation Act allocations
2)			
3)			
4)			
State Sources (Linked from page 1)			
1)			
2)			
3)			
4)			
Local Sources (Linked from page 1)			
General Excise and Use Tax Surcharge	Existing	Committed	State Act HB1309 and City Ordinance 05-027
2)			
3)			
4)			
Private Sector/In-kind Match/Other (Linked from page 1)			
1)			
2)			
3)			

Reference Notes: The following categories and definitions are applied to funding sources:

Committed: Committed sources are programmed capital funds that **have all the necessary approvals** (legislative or referendum) to be used to fund the proposed project **without any additional action**. These capital funds have been formally programmed in the MPO's TIP and/or any related local, regional, or state CIP or appropriation. Examples include dedicated or approved tax revenues, state capital grants that have been approved by all required legislative bodies, cash reserves that have been dedicated to the proposed project, and additional debt capacity that requires no further approvals and has been dedicated by the transit agency to the proposed project.

Budgeted: This category is for funds that have been budgeted and/or programmed for use on the proposed project but remain uncommitted, i.e., the funds have not yet received statutory approval. Examples include debt financing in an agency-adopted CIP that has yet to receive final legislative approval, or state capital grants that have been included in the state budget, but are still awaiting legislative approval. These funds are almost certain to be committed in the near future. Funds will be classified as budgeted where available funding cannot be committed until the Full Funding Grant Agreement (FFGA) is executed, or due to local practices outside of the project sponsor's control (e.g., the project development schedule extends beyond the TIP period).

Planned: This category is for funds that are identified and have a reasonable chance of being committed, but are neither committed nor budgeted. Examples include proposed sources that require a scheduled referendum, reasonable requests for state/local capital grants, and proposed debt financing that has not yet been adopted in the agency's CIP.

FINANCE TEMPLATE (page 3)

Innovative Financing Methods
(Unconventional sources of funding which may include TIFIA, State Infrastructure Banks, Public/Private partnerships, Toll Credits, revenue finance methods, etc.)

Innovative Funding Source	Anticipated Funding Amount	Identify Supporting Documentation Submitted

Summary Information from the Operating Finance Plan

New Starts Project Annual Operating Cost in the Forecast Year (YOE$):	$126,000,000	**Total Transit System (including New Starts Project) Annual Operating Cost in the Forecast Year (YOE$)**		$489,000,000
Proposed Sources of Operating Funds (Proposed sources of operating funds that are anticipated to support operating expenses of the transit system.)	**Dollar Amount**	**Type of Funding Source**	**Annual/Dedicated**	**Specify Whether New or Existing Funding Source**
Farebox Revenues	$153,000,000	---	---	---
Federal Revenue Source A	$52,000,000	Federal - 5307	Annual	Existing
State Revenue Source A				
State Revenue Source B				
Local Revenue Source A	$284,000,000	City - General & Highway Fund	Annual	Existing
Local Revenue Source B				
Local Revenue Source C				
Other				
Total	$489,000,000			

Transit System Operating Characteristics

Current Systemwide Characteristics (Can be the same data as reported to the FTA for the National Transit Database)	**Number/Value**	**Future Transit System with New Starts Project** (Systemwide characteristics at completion of the New Starts Project)	**Number/Value**
Farebox Recovery Percent	25.6%	**Farebox Recovery Percent**	31.5%
Number of Buses	Bus -531, HandiVan - 220	**Number of Buses**	Bus - 558, HandiVan - 265
Number of Rail Vehicles	0	**Number of Rail Vehicles**	85
Current Annual Passenger Boardings	72,557,307		
Daily Passenger Boardings	224,082		
Average Fare	$0.60 per unlinked trip	**Average Fare**	$1.00 per unlinked trip
Average Age of Buses	Bus - 7.3, HandiVan - 4.8		
Average Age of Rail Vehicles	N.A.		
Revenue Miles of Service Provided	22,532,013	**Revenue Miles of Service**	35,740,000
Revenue Hours of Service Provided	1,677,066	**Revenue Hours of Service**	2,018,000