

# Potential New Transportation System Improvement Projects Matrix

## Oahu Regional Transportation Plan 2035 Project

Deliverable 8.1.2



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## OAHU REGIONAL TRANSPORTATION PLAN 2035 -- POTENTIAL PROJECTS LIST

PROJECT NO.	FACILITY/PROJECT TITLE	PROJECT DESCRIPTION	ESTIMATED COST (Millions of YOE \$)
<b>ISLANDWIDE PROJECTS - 2011 TO 2020</b>			
1	Alapai Transportation Management Center	Construct a transportation management center behind the Alapai Transit Center. Center will combine transportation management with City, State, and emergency response agencies. The City's Emergency Operations Center will also be relocated to the joint traffic management center.	\$158.7
2	Bike Plan Hawaii - Oahu (2011-2020)	Implement Oahu elements of the State of Hawaii's Bike Plan Hawaii.	\$47.3
3	Oahu Bike Plan (2011 - 2020)	Implement City and County Bike Projects (Priority One)	\$18.6
4	Enhancement Projects (2011-2020)	Implement enhancement projects, including, but not limited to, projects from the Transportation Enhancement Program for Oahu.	\$8.7
5	Intelligent Transportation Systems (ITS) (2011-2020)	Implement ITS projects including, but not limited to, those identified in the Oahu Regional ITS Architecture.	\$56.9
6	Transportation Demand Management (TDM) Program (2011-2020)	Develop an aggressive TDM program that could include, but is not limited to: 1. Free real-time online carpool matching, 2. Outreach promotion and marketing of alternative transportation, 3. Emergency ride home program, 4. Major special events, 5. Employer based commuter programs, 6. Emerging and innovative strategies (i.e., car sharing).	\$33.9
7	Van Pool Program (2011-2020)	Continue implementation and expansion of the State's Van Pool Program.	\$29
8	Human Services Transportation Coordination Program (2011-2020)	Provide a range of transportation services targeted to disadvantaged populations under the Human Services Transportation Coordination Program. Specific projects include: 1. Human Service Agency-provided Trips (TheHandi-Van), 2. Local Shuttle Service, 3. Mobility Management Center	\$14
<b>SAFETY &amp; OPERATIONAL IMPROVEMENT PROJECTS - 2011 TO 2020</b>			
9	Rockfall Protection, Various Locations	Install rockfall protection or mitigation measures along various state highways at various locations.	\$57.8
10	Kalaniana'ole Highway, Safety & Operational Improvements, Olomana Golf Course to Waimanalo Beach Park	Construct safety and operational improvements along Kalaniana'ole Highway between the Olomana Golf Course and Waimanalo Beach Park. Specific safety and operational improvements include construction of turning lanes, sidewalks, wheelchair ramps, bike paths or bike lanes, traffic signal upgrades, utility relocation, and drainage improvements.	\$47.6
11	Kamehameha Highway, Safety Improvements, Haleiwa to Kahaluu	Construct safety improvements along Kamehameha Highway, from Haleiwa to Kahaluu. Safety improvements include turn lanes, guardrails, signage, crosswalks, etc. to improve safety. Widening of Kamehameha Highway will only be in areas where needed for storage/turn lanes safety improvements.	\$19.3
12	Kamehameha Highway, Safety & Operational Improvements, Kaalaea Stream to Hygienic Store	Construct safety and operational improvements along Kamehameha Highway, between Kaalaea Stream and Hygienic Store. Safety and operational improvements include passing and turning lanes, modification of signals, and installation of signs, flashers, and other warning devices. This project also includes replacement of Kaalaea Stream Bridge and Haiamoa Stream Bridge with structures that meet current design standards.	\$17.0

## OAHU REGIONAL TRANSPORTATION PLAN 2035 -- POTENTIAL PROJECTS LIST

PROJECT NO.	FACILITY/PROJECT TITLE	PROJECT DESCRIPTION	ESTIMATED COST (Millions of YOE \$)
13	Highway Safety Improvement Program	Comprehensive program to fund safety improvements to reduce collisions and damage to property. Strategies may include installation of left turn lanes, roadway widenings, traffic signal modifications, installation of rumble strips and crash attenuators, installation of guardrails and bridge railings and others.	\$25.0
14	Shoreline Protection Program	Kamehameha Highway and other locations	\$26.6
<b>CONGESTION RELIEF PROJECTS - 2011 TO 2020</b>			
15	Farrington Highway, Widening, Golf Course Road to west of Fort Weaver Road	Widen Farrington Highway from two-to-four lanes, from Golf Course Road to just west of Fort Weaver Road.	\$44.1
16	Fort Barrette Road, Widening, Farrington Highway to Barber's Point Gate.	Widen Fort Barrette Road from two-to-four lanes, from Farrington Highway to Barber's Point Gate.	\$23.5
17	Hanua Street Extension, Farrington Highway to Malakole Street; Interstate Route H-1, New On- & Off-Ramps, Palalilai Interchange	Hanua Street: <ul style="list-style-type: none"> <li>• Extend Hanua Street from Malakole Street to Farrington Highway. This new 4-lane roadway will provide access to Kalaeloa Harbor.</li> </ul> Interstate Route H-1, Palalilai Interchange: <ul style="list-style-type: none"> <li>• Construct new on- and off-ramps at Interstate Route H-1 Palalilai Interchange to Hanua Street extension.</li> </ul>	\$120.0
18	Interstate Route H-1, New Interchange, Kapolei Interchange	Construct new Interstate Route H-1 Kapolei Interchange for Kapolei between the Palalilai Interchange and Makakilo Interchange. Project to be constructed in multiple phases.	\$47.7
19	Interstate Route H-1, Operational Improvements, Lunalilo Street Off-Ramp and On-Ramp (Between Lunalilo Street on-ramp and Vineyard Boulevard off-ramp)	Improve operation and capacity on the westbound H-1 Freeway by modifying weaving movements between the Lunalilo Street on-ramp and Vineyard Boulevard off-ramp. Re-stripe freeway lanes from Punaho Modify the weaving movements on the Interstate Route H-1, in the westbound direction, between the Lunalilo Street on-ramp and the Vineyard Boulevard off-ramp.	\$6.0
20	Interstate Route H-1, Widening, Ola Lane to Vineyard Boulevard	Widen the Interstate Route H-1 by 1 lane, in the eastbound direction, from Ola Lane to Vineyard Boulevard, as identified below: <ul style="list-style-type: none"> <li>• From two-to-three lanes from Ola Lane/Middle Street to Likelike Highway off-ramp</li> <li>• From three-to-four lanes from Likelike Highway off-ramp to Vineyard Boulevard</li> </ul> This project also includes the widening of: <ul style="list-style-type: none"> <li>• Gulick Avenue overpass to allow five lanes to pass under it</li> <li>• Kalihi Interchange overcrossings to allow four lanes to pass under it.</li> </ul>	\$104.0
21	Interstate Route H-1, Widening, Waiiau Interchange to Waiawa Interchange	Widen Interstate Route H-1 in the westbound direction by one lane from the Waiiau Interchange to the Waiawa Interchange.	\$338.9
22	Interstate Route H-1, Widening, Waiawa Interchange	Widen the Interstate Route H-1 by 1 lane, in the westbound direction, through the Waiawa Interchange. This project will begin in the vicinity of the Waiawa Interchange and end at the Paiwa Interchange. <ul style="list-style-type: none"> <li>• From two-to-three lanes in AM peak</li> <li>• From four-to-five lanes in PM peak</li> </ul>	\$16.2

## OAHU REGIONAL TRANSPORTATION PLAN 2035 -- POTENTIAL PROJECTS LIST

PROJECT NO.	FACILITY/PROJECT TITLE	PROJECT DESCRIPTION	ESTIMATED COST (Millions of YOE \$)
23	Interstate Route H-1, Contra Flow Lane extension (PM), Waiawa Interchange to Kunia Interchange and Keehi Interchange to Radford Drive	This project would construct an extension of the PM contra-flow lane on the Interstate Route H-1, in the westbound direction, on the west end from Waiawa Interchange to Kunia Interchange and on the east end from the Keehi Interchange to Radford Drive. Project will include upgrade of the shoulder lane from the Waiawa Interchange to the Waikele off-ramp to assist in traffic dispersion from the Contraflow lane.	\$60.0
24	Interstate Route H-1, Widening, Waipahu Off-Ramp	Widen the Interstate Route H-1 Waipahu Street off-ramp from one-to-two lanes, in the westbound direction, at the Waiawa Interchange.	\$28.8
25	Interstate Route H-2, Widening, Waipio Interchange	Widen both on- and off-ramps on Interstate Route H-2, at the Waipio Interchange. This project includes the widening of the Ka Uka Boulevard overpass and intersection improvements to facilitate movement to and from the on- and off-ramps.	\$30.6
26	Interstate Route H-1, Operational Improvements and Widening, Ward Avenue On-Ramp to University Avenue Interchange	Improve traffic flow on the Interstate Route H-1, in the eastbound direction, from the Ward Avenue on-ramp to the University Avenue Interchange through operational improvements. Widen the existing H-1 by one lane in the eastbound direction from Ward Avenue to Punahou Street.	\$65.0
27	Interstate Routes H-1 & H-2, Operational Improvements, Waiawa Interchange	Modify the Interstate Routes H-1 and H-2 Waiawa Interchange, to improve merging characteristics through operational improvements (e.g., additional transition lanes).	\$112.1
28	Kamehameha Highway, Widening, Lanikuhana Avenue to Ka Uka Boulevard	Widen Kamehameha Highway from a three-lane to a four-lane divided facility between Lanikuhana Avenue and Ka Uka Boulevard. This project includes shoulders for bicycles and disabled vehicles, bridge crossing replacement, bikeways, etc.	\$96.5
29	Kapolei Parkway, Extension, Kamokila Boulevard to Fort Barrette Road	Extend the existing six-lane Kapolei Parkway between Kamokila Boulevard and Fort Barrette Road.	\$101.3
30	Kapolei Parkway, Extension & Widening, Aliinui Drive to Kalaeloa Boulevard	Extend Kapolei Parkway (six lanes), from Aliinui Drive to Hanua Street. This project includes widening of Kapolei Parkway from four-to-six lanes from Hanua Street to Kalaeloa Boulevard.	\$69.4
31	Kualaka'i Parkway, Widening & Extension, Interstate Route H-1 to Franklin D Roosevelt Avenue	Widen and extend Kualaka'i Parkway as follows: <ul style="list-style-type: none"> <li>• From three-to-six lanes from Kapolei Parkway to Interstate Route H-1</li> <li>• Extend from Kapolei Parkway to Franklin D Roosevelt Avenue (six lanes)</li> </ul>	\$25.3
32	Interstate Route H-1, Widening, Vineyard Boulevard to Middle Street	Widen the Interstate Route H-1 by one lane in the westbound direction, from Vineyard Boulevard to Middle Street.	\$117.0
33	Kalaeloa East-West Spine Road, New Roadway, Kalaeloa Boulevard to Geiger Road	Construct a new four-lane east-west spine road within Kalaeloa by realigning and connecting portions of the existing Saratoga Avenue from Kalaeloa Boulevard in the west and to Geiger Road in the east.	\$271.1
34	Keoneula Boulevard, Extension, Kapolei Parkway to Franklin D. Roosevelt Avenue	Extend Keoneula Boulevard from Kapolei Parkway to Franklin D. Roosevelt Avenue.	\$209.5

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PROJECT NO.	FACILITY/PROJECT TITLE	PROJECT DESCRIPTION	ESTIMATED COST (Millions of YOE \$)
35	Paiwa Street, Extension, Ka Uka Boulevard to Lumiauu Street	Extend Paiwa Street from north of Lumiauu Street, to the intersection of Kamehameha Highway and Ka Uka Boulevard.	\$37.0
36	Pearl Harbor Corridor	Construct an alternative route through the Pearl Harbor corridor to provide direct connection between Honolulu and the Ewa Plain. A new tunnel beneath the mouth of Pearl Harbor and a series of bridges spanning Pearl Harbor are potential options for this route. This project could operate as a toll facility.	\$7,000.0
37	East-West Road	Construct as four-lane roadway between Farrington Hwy and Ft. Weaver Rd	\$57.3
38	Kamokila Blvd	Extend as four lane roadway between Roosevelt and Saratoga	\$30.2
39	Fort Barrette Road	Extend as four-lane roadway between Roosevelt and Saratoga	\$10.7
40	Salt Lake Boulevard Widening Project	Widen Salt Lake Boulevard from two-to-six lanes, between Maluna Street and Ala Lili'oi Street.	\$66.0
<b>SECOND ACCESS PROJECTS - 2011 TO 2020</b>			
41	Makakilo Drive, Second Access, Makakilo Drive to Kualaka'i Parkway/Interstate Route H-1 Interchange	Extend Makakilo Drive (vicinity Pueonani Street) south to the Interstate Route H-1 Freeway Interchange as four-lane roadway, connecting Makakilo Drive to Kualaka'i Parkway.	\$78.5
<b>TRANSIT PROJECTS - 2011 TO 2020</b>			
42	TheBus Service, Expansion, Islandwide (2011-2020)	Expand the bus service through increase of capacity of the existing system to accommodate population growth. Expanded service will be ADA-compliant. This includes: <ul style="list-style-type: none"> <li>• Expansion of Services to and within Ewa, Kapolei, Central, and Windward Oahu</li> <li>• Expansion through increase of Express service to the North Shore, Waianae, and Windward Oahu</li> <li>• Restructure of service in urban Honolulu</li> </ul>	\$456.0
43	Transit Centers, Various Locations (2011-2020)	Construct transit centers at various locations islandwide to support transit operations	\$45.6
<b>OPERATIONS, MAINTENANCE &amp; SYSTEM PRESERVATION - 2011 TO 2021</b>			
44	City Operations and Maintenance (O&M): Transit (2011-2020)	Maintain and operate the City's existing and future transit, and paratransit operations and routine maintenance. Includes, but is not limited to, operation of the transit system (including bus, paratransit, and rail), replacement of existing fleet, plan, design and construct a third bus operating facility, etc.	\$2,618.0
45	City Operations and Maintenance (O&M): Roadways (2011-2020)	Maintain and operate the City's existing and future roadway. Includes, but is not limited to, resurfacing, guardrail and shoulder improvements, lighting improvements, drainage improvements, signal and sign upgrades and replacement, etc.	\$337.5
46	State Operations and Maintenance (2011-2020)	Maintain and operate the State's existing and future highway operations and routine maintenance. Special Maintenance Program (SMP) Projects include, but is not limited to, pavement repair, preventative maintenance, resurfacing and rehabilitation, etc.	\$1,011.0

## OAHU REGIONAL TRANSPORTATION PLAN 2035 -- POTENTIAL PROJECTS LIST

PROJECT NO.	FACILITY/PROJECT TITLE	PROJECT DESCRIPTION	ESTIMATED COST (Millions of YOE \$)
47	System Preservation (2011-2020)	Preserve the highway system through projects including, but not limited to, bridge replacement and seismic retrofit, guardrail and shoulder improvements, lighting improvements, drainage improvements, sign upgrades and replacement, traffic signal upgrade and retrofit, etc.	\$400.0
<b>COST SUBTOTALS: MID-RANGE PLAN (2011 TO 2020)</b>		<b>CATEGORIES SUBTOTALS</b>	
		Islandwide Projects	\$367.2
		Safety & Operational Improvement Projects	\$193.3
		Congestion Relief Projects	\$9,088.2
		Second Access Projects	\$78.5
		Transit Projects	\$501.6
		Operations, Maintenance, & System Preservation	\$4,366.5
		<b>All Categories</b>	<b>\$14,595.4</b>
<b>ISLANDWIDE PROJECTS - 2021 TO 2035</b>			
48	Bike Plan Hawaii - Oahu (2021-2035)	Implement Oahu elements of the State of Hawaii's Bike Plan Hawaii.	\$176.7
49	Oahu Bike Plan (2021 - 2035)	Implement City and County Bike Projects (Priorities Two and Three)	\$81.7
50	Enhancement Projects (2021-2035)	Implement enhancement projects, including, but not limited to, projects from the Transportation Enhancement Program for Oahu.	\$75.0
51	Intelligent Transportation Systems (ITS) (2021-2035)	Implement ITS projects including, but not limited to, those identified in the Oahu Regional ITS Architecture.	\$225.0
52	Transportation Demand Management (TDM) Program (2021-2035)	Develop an aggressive TDM program that could include, but is not limited to: 1. Free real-time online carpool matching, 2. Outreach promotion and marketing of alternative transportation, 3. Emergency ride home program, 4. Major special events, 5. Employer based commuter programs, 6. Emerging and innovative strategies (i.e., car sharing).	\$136.9
53	Van Pool Program (2021-2035)	Continue implementation and expansion of the State's Van Pool Program.	\$88.1
54	Human Services Transportation Coordination Program (2011-2020)	Provide a range of transportation services targeted to disadvantaged populations under the Human Services Transportation Coordination Program. Specific projects include: 1. Human Service Agency-provided Trips (TheHandi-Van), 2. Local Shuttle Service, 3. Mobility Management Center	\$33.2
<b>SAFETY &amp; OPERATIONAL IMPROVEMENT PROJECTS - 2021 TO 2035</b>			
55	Farrington Highway, Safety Improvements, Makua Valley Road to Aliinui Drive	Construct safety improvements on Farrington Highway along the Waianae Coast, from Makua Valley Road (Kaena Point) to Aliinui Drive (Kahe Point). This project includes realignment around Makaha Beach Park, between Makau Street and Water Street.	\$209.0
56	Rockfall Protection, Various Locations	Install rockfall protection or mitigation measures along various state highways at various locations.	\$96.2



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PROJECT NO.	FACILITY/PROJECT TITLE	PROJECT DESCRIPTION	ESTIMATED COST (Millions of YOE \$)
57	Shoreline protection program	Implement shoreline protection programs at various locations.	\$44.3
58	Highway Safety Improvement Program	Comprehensive program to fund safety improvements to reduce collisions and damage to property. Strategies may include installation of left turn lanes, roadway widenings, traffic signal modifications, installation of rumble strips and crash attenuators, installation of guardrails and bridge railings and others.	\$37.0
<b>CONGESTION RELIEF PROJECTS - 2021 TO 2035</b>			
59	Farrington Highway, Widening, west of Fort Weaver Road to Waiawa Interchange	Widen Farrington Highway from Kunia to Waiawa by one lane in each direction, from west of Fort Weaver Road to Waiawa Interchange.	\$130.8
60	Farrington Highway, Widening, Hakimo Road to Kalaeloa Boulevard	Widen Farrington Highway from four-to-six lanes, from Hakimo Road to Kalaeloa Boulevard, including intersection of Luualaei Naval Road.	\$233.1
61	Interstate Route H-1, On- & Off-Ramp Modifications, Various Locations	Modify and/or close various on- and off- ramps on the Interstate Route H-1 from Middle Street to University Avenue. This project includes modification of auxiliary lanes at various exits and other operational changes to Interstate Route H-1. The identification of the precise improvements to be made will require a separate detailed corridor study.	\$108.0
62	Interstate Route H-1, On- & Off-Ramp Modifications, University Avenue Interchange	Modify on- and off-ramps at the University Avenue Interchange on Interstate Route H-1. This project includes the construction of new ramps to allow all movements, as well as safety improvements including the closure of the eastbound on-ramp at University Avenue Interchange to Interstate Route H-1 and the construction of a new makai bound off-ramp to University Avenue from Interstate Route H-1.	\$42.0
63	Interstate Route H-1, HOV Lanes, Waiawa Interchange to Makakilo Interchange	Construct two new lanes in the freeway median for HOV use, one in the westbound direction and one in the eastbound direction, on Interstate Route H-1, from the Waiawa Interchange to the Makakilo Interchange.	\$102.4
64	Interstate Route H-1, Widening, Waiawa Interchange to Halawa Interchange	Widen the Interstate Route H-1 by one lane in the eastbound direction, from the Waiawa Interchange to the Halawa Interchange.	\$540.3
65	Interstate Route H-1, Widening, Ward Avenue to Punahou Street	Widen the existing Interstate Route H-1 by one lane in the eastbound direction, from Ward Avenue to Punahou Street.	\$48.6
66	Interstate Route H-2, New Interchange, Pineapple Road Overpass	Construct a new full-service freeway interchange on Interstate Route H-2, between Meheula Parkway and Ka Uka Boulevard, to accommodate future developments in Central Oahu. This project includes the widening of the existing Pineapple Road Overpass from two-to-four lanes; and addition of new on- and off-ramps to and from Interstate Route H-2 at Pineapple Road Overpass.	\$102.5
67	Kahekili Highway, Widening, Kamehameha Highway to Haiku Road	Widen Kahekili Highway from two-to-four lanes, from Kamehameha Highway to Haiku Road. This project also includes the following improvements: <ul style="list-style-type: none"> <li>• Contraflow in existing right-of-way between Hui Iwa Street and Haiku Road</li> <li>• Intersection improvements at Hui Iwa Street and Kamehameha Highway</li> </ul>	\$75.0
68	Kunia Road, Widening and Interchange Improvement, Wilikina Drive to Farrington Highway	Widen Kunia Road as follows: <ul style="list-style-type: none"> <li>• From two-to-four lanes, from Wilikina Drive to Anonui Street.</li> <li>• From two-to-four lanes, Anonui Street to Kupuna Loop.</li> <li>• From four-to-six lanes, Kupuna Loop to Farrington Highway.</li> <li>• Add one lane eastbound loop on-ramp at Kunia Road &amp; Interstate Route H-1.</li> </ul>	\$348.9

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PROJECT NO.	FACILITY/PROJECT TITLE	PROJECT DESCRIPTION	ESTIMATED COST (Millions of YOE \$)
69	Likelike Highway, Widening, Kamehameha Highway to Kahekili Highway	Widen Likelike Highway from four-to-six lanes, from Kamehameha Highway to Kahekili Highway.	\$32.9
70	Makakilo Mauka Frontage Road, New Roadway, Kalaeloa Boulevard to Makakilo Drive	Construct a new two-lane Makakilo Mauka Frontage Road, mauka of Interstate Route H-1, from Kalaeloa Boulevard to Makakilo Drive.	\$18.2
71	Nimitz Highway, High Occupancy Vehicle (HOV) Flyover, Keehi Interchange to Pacific Street	Construct a new two-lane elevated and reversible HOV flyover above Nimitz Highway, from the Keehi Interchange to Pacific Street. This project includes the removal of the existing eastbound contraflow lane in the AM peak and restoration of all turning movements on the at-grade portion of Nimitz highway.	\$537.5
72	Piikoi-Pensacola Couplet Reversal	Reverse the direction of the existing one-way Piikoi Street and Pensacola Street couplet.	\$10.4
73	Puuloa Road, Widening, Pukuloa Road to Nimitz Highway	Widen Puuloa Road, from Pukuloa Road to Nimitz Highway: • From three lanes (one lane southbound and two-lane northbound) to five-lanes (two lanes southbound and three lanes northbound), from Pukuloa Road to Kamehameha Highway.	\$24.6
<b>SECOND ACCESS PROJECTS - 2021 TO 2035</b>			
74	Waianae, Second Access, Farrington Highway to Kunia Road	Construct a new two-lane second access road to Waianae from Farrington Highway in the vicinity of Maili, over the Waianae Mountain Range, to Kunia Road.	\$1,269.0
75	Central Mauka Road, Second Access, Millilani Mauka to Waiawa	Construct Central Mauka Road, a new four-lane road from Millilani Mauka to Waiawa. Road connects Meheula Parkway to Kamehameha Highway in Pearl City; parallel to & mauka of Interstate Route H-2. The new four-lane north-south road includes connections to Interstate Route H-2 interchanges.	\$394.4
76	Wahiawa, Second Access, Whitmore Avenue to Meheula Parkway	Construct a new two-lane second access road between Whitmore Village and Wahiawa, from Whitmore Avenue to California Avenue. Continue the new two-lane second access road to Millilani Mauka, from California Avenue to Meheula Parkway.	\$158.7
77	Makapuu Tunnel	Secondary access road (tunnel) to provide connection between Hawaii Kai and Waimanalo areas from the vicinity of Lunalilo Home Road to the vicinity of Kalaniana'ole Highway north of Sea Life Park; lane configuration to be determined.	\$600.0
<b>TRANSIT PROJECTS - 2021 TO 2035</b>			
78	TheBus Service, Expansion, Islandwide (2021-2035)	Expand the bus service through increase of capacity of the existing system to accommodate population growth. Expanded service will be ADA-compliant. This includes: • Expansion of Services to and within Ewa, Kapolei, Central, and Windward Oahu • Expansion through increase of Express service to the North Shore, Waianae, and Windward Oahu • Restructure of service in urban Honolulu	\$848.0
79	Fixed Guideway, West Kapolei to East Kapolei	Plan, design, and construct a fixed guideway system between West Kapolei to East Kapolei	\$2,031.6
80	Fixed Guideway, Ala Moana to Manoa/Waikiki	Plan, design, and construct a fixed guideway system between Ala Moana and Manoa/Waikiki	\$1,828.4
81	City Rail Rehabilitation and Fleet Expansion	Provide for rehabilitation of track and expansion of rail fleet.	\$203.0
82	Transit Centers, Various Locations (2021-2035)	Construct transit centers at various locations islandwide to support transit operations.	\$19.0
<b>OPERATIONS, MAINTENANCE &amp; SYSTEM PRESERVATION - 2021 TO 2035</b>			

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PROJECT NO.	FACILITY/PROJECT TITLE	PROJECT DESCRIPTION	ESTIMATED COST (Millions of YOE \$)
83	City Operations and Maintenance (O&M): Transit (2021-2035)	Maintain and operate the City's existing and future transit, and paratransit operations and routine maintenance. Includes, but is not limited to, operation of the transit system (including bus, paratransit, rail, and ferry), replacement of existing fleet, plan, design and construct a third bus operating facility, etc.	\$6,957.0
84	City Operations and Maintenance (O&M): Roadways (2021-2035)	Maintain and operate the City's existing and future roadway. Includes, but is not limited to, resurfacing, guardrail and shoulder improvements, lighting improvements, drainage improvements, signal and sign upgrades and replacement, etc.	\$749.3
85	State Operations and Maintenance (2021-2035)	Maintain and operate the State's existing and future highway operations and routine maintenance. Special Maintenance Program (SMP) Projects include, but is not limited to, pavement repair, preventative maintenance, resurfacing and rehabilitation, etc.	\$1,257.0
86	System Preservation (2021-2035)	Preserve the highway system through projects including, but not limited to, bridge replacement and seismic retrofit, guardrail and shoulder improvements, lighting improvements, drainage improvements, sign upgrades and replacement, traffic signal upgrade and retrofit, etc.	\$924.3
<b>COST SUBTOTALS: LONG-RANGE PLAN (2021 TO 2035)</b>		<b>CATEGORIES SUBTOTALS</b>	
		Islandwide Projects	\$816.6
		Safety & Operational Improvement Projects	\$386.5
		Congestion Relief Projects	\$2,355.2
		Second Access Projects	\$2,422.1
		Transit Projects	\$4,930.0
		Operations, Maintenance, & System Preservation	\$9,887.6
		<b>All Categories</b>	<b>\$20,798.0</b>
<b>COST SUBTOTALS: 2010 TO 2035</b>		<b>CATEGORIES SUBTOTALS</b>	
		Islandwide Projects	\$1,183.8
		Safety & Operational Improvement Projects	\$579.8
		Congestion Relief Projects	\$11,443.4
		Second Access Projects	\$2,500.6
		Transit Projects	\$5,431.6
		Operations, Maintenance, & System Preservation	\$14,254.1
		<b>All Categories</b>	<b>\$35,393.4</b>