

NEWPORT TRANSPORTATION SYSTEM PLAN*

This Transportation System Plan (TSP) describes the individual elements that make up the transportation system for the City of Newport. Additionally, the TSP represents recommended project improvements and goals and policies towards establishing a coordinated multi-modal transportation network for the City of Newport intended to comply with Statewide Planning Goal 12 and the Transportation Planning Rule (OAR 660-012-0015).

The complete TSP, titled “City of Newport Transportation System Plan, February 2022” describes in detail the various components of the City of Newport’s transportation system, makes a complete analysis of those various components, and describes the process used to develop the plan. Current and future transportation needs were evaluated, projects prioritized, and a strategic and reasonable funding program has been developed, all of which was informed by public input. Unimplemented project concepts from the City’s previous transportation related plans that are still relevant have been incorporated into the TSP. **By this reference, the complete TSP as amended by Ordinance No. [REDACTED] is incorporated herein.** Where the text references “TSP,” the reference is to the TSP as amended unless otherwise noted.

However, the complete plan contains more information than most individuals want to sort through when looking for guidance on how future decisions should be made to improve the City’s transportation system. This section will, therefore, focus on the projects contained in the TSP and the goals and policies needed to assure compliance. Persons interested in obtaining a more thorough understanding of the reasoning for the projects, goals, and policies should review the full TSP documentation referenced in Policy 1, Goal 1 of this chapter.

CRITICAL COMMUNITY ISSUES

A number of critical community issues guided development of the TSP. They were identified under the guidance of city leaders and a committee of key community stakeholders, referred to as the Project Advisory Committee, and are as follows:

- Develop desired streetscape, urban form, and roadway alignment for downtown commercial core to spur redevelopment.
- Identify transportation enhancements for the Agate Beach neighborhood that are sensitive to local geologic conditions.
- Update the TSP capital projects and planning level estimates for near- and long-term system investment priorities.
- Clarify whether the US 101 highway alignment may change as a part of the future replacement of Yaquina Bay Bridge.
- Evaluate the viability and efficiency of NE Harney St. extension as north-south alternative to US 101.
- Develop a city-wide integrated multi-use bike and pedestrian network.
- Identify areas suitable for neighborhood traffic calming measures and address pedestrian safety needs.
- Identify transit needs of the community.
- Refine street cross-sections requirements to provide options that address constraints.
- Revise infill frontage improvement requirements to better balance cost and community needs.

*Added by Ordinance No. 1802 (1-4-99); Amended by Ordinance No. 1963 (8-18-08), Ordinance No. 2045 (11-5-12), and Ordinance No. [REDACTED] (6-20-22).

Critical community issues were also identified through public engagement while the TSP was being developed, with approximately 970 people being engaged through a variety of outreach opportunities. Common themes heard from the public included the following:

- Improve pedestrian and bicyclist safety throughout the city.
- Increased bus/transit/shuttle options.
- Enhance vehicle traffic flow and reduce congestion for through travelers and local users
- Implement parking improvements especially in the downtown area
- Enforce traffic speeding
- Preserve/rebuild the Yaquina Bay Bridge in the same location
- Promote emerging technology such as electric vehicle (EV) charging stations, parking solutions and solar power

Outcomes and recommendations related to these issues are addressed in detail in the complete TSP. Technical background information that formed the basis for many of the recommendations is available as appendices to the document.

TRANSPORTATION SYSTEM CONTEXT

The City of Newport was incorporated in 1882, and the 1910 census reported about 700 residents. Over the past century, the city has grown to just over 10,000 permanent residents today. The summertime population peaks at 25,000 because of the seasonal changes in tourist, employment, visitor, and recreational activities. As a popular Oregon Coast community and active seaport, Newport experiences its highest transportation demands during summer months when tourism and recreation are at their peak, whereas travel activity during the winter months are much lower. For example, the daily traffic counts on US 101 near City Hall drop by about 40 percent between July and January. The TSP recognizes how seasonal swings in travel activity affect the community.

Newport faces the challenge of accommodating growth while maintaining acceptable service levels on its transportation network. Some of the key opportunities and challenges noted addressed with the TSP are listed below:



- **US 101 and US 20** form the primary transportation network and carry most of the motor vehicle traffic. Outside of the downtown core area, the geographic constraints of the ocean coast, Yaquina Bay and local hillsides have fostered a strong reliance on the state highway system both for local travel and regional service to nearby communities. These highways were built with limited walking and bicycling amenities which continues to be a challenge for residents, visitors and tourists that are traveling outside of their motor vehicles.

- **Downtown** is where many of the properties are underutilized or in economic distress with vacant storefronts and aging, poorly maintained buildings. The City has an opportunity to leverage its urban renewal district to generate funding to revitalize the downtown area, which is also referred to as the commercial core area, along with upgrading the transportation system to catalyze economic development and provide infrastructure needed to support additional density.
- **Nye Beach** is a mixed-use neighborhood with direct beach access anchored by Performing Arts and Visual Art Centers. Commercial development is concentrated along Beach Drive and Coast Street, both of which include streetscape enhancements that encourage a dense pedestrian friendly atmosphere. This area includes a mix of retail, dining, lodging, professional services, galleries, single family homes, condominiums, long term and short-term rentals.
- **Bayfront** is a working waterfront with a mix of tourist-oriented retail, restaurants, fish processing facilities, and infrastructure to support the City's commercial fishing fleet. The Port of Newport is a major property owner, and a boardwalk and fishing piers provide public access to the bay. The area is terrain constrained, with steep slopes rising up from commercial sites situated along Bay Boulevard.
- **South Beach**, nestled on the south side of the Yaquina Bay Bridge, is developed with a mix of regional institutions, recreational facilities, neighborhoods, and retail businesses, including the popular Oregon Coast Aquarium, Hatfield Marine Science Center, OMSI's Camp Gray, Oregon Coast Community College, Newport Municipal Airport, and the Port of Newport's South Beach Marina and RV Park. The City's largest residential planned development is also located in South Beach, known as the "Wilder" community.
- **Yaquina Bay Bridge** is an integral part of Newport as well as an historic icon on Oregon's coast highway system. Since its opening in 1936, the bridge has been the only transportation link across Yaquina Bay to South Beach. The Oregon Department of Transportation (ODOT) has been working to extend the functional life of the bridge, but they expect that it will eventually be replaced. The timing for its replacement is uncertain, however, ODOT has indicated that its current location would be the preferred option to minimize environmental, engineering and community impacts.
- **Natural Hazards** considered in this TSP include the potential tsunami events following earthquakes and mitigating for unstable soils and ocean bluff erosion.

EXISTING AND ANTICIPATED FUTURE TRANSPORTATION CONDITIONS

A comprehensive assessment was made of the travel patterns and transportation system performance within Newport as it operates today, and how that is expected to change with planned growth through 2040. To make the future forecast, the designated growth areas within the city were reviewed to determine how travel activity and patterns would change based on historical demographic and travel data. The future year travel forecast was made for summertime conditions, and it was used to evaluate how effectively proposed roadway solutions would operate.

The findings of this technical analysis for all travel modes, combined with input from the public engagement process, formed a master list of system needs for the community. Later in the update process, past transportation projects that have yet to be implemented were refined and amended, as needed, to fully address the latest understanding of the community's transportation needs.

Land Use and Transportation Demand Growth

The City's Urban Growth Boundary (UGB) and adopted land use zoning maps identify the location and type of development that is expected to occur in Newport. In addition, citywide population forecasts are coordinated with a statewide effort led by Portland State University. By 2040, the growth in households and employment for Newport can be summarized as follows:

- **Households** - About 1,000 more homes are expected throughout the city, with the highest concentrations in the recent UGB addition at the intersection of NE 36th and NE Harney Streets, and the emerging neighborhood along SE 40th Street near the Oregon Coast Community College. Many other neighborhoods expect modest residential in-fill development.
- **Population** – About 2,400 more permanent residents are expected to reside in these new homes. In addition, visiting households during peak seasons are forecasted to increase by about 210 more than today.
- **Summer Employment** - About 2,700 more jobs are expected during the summer. Overall job growth will be highest in the South Beach area, especially along Marine Science Drive, and south of 40th Street, and in the very north end of the city near 73rd Street.

This combination of new housing, residents and jobs is expected to increase citywide vehicle trips by about 27% year-round by 2040.

Motor Vehicle System Performance Issues

Based on technical evaluation and feedback from the community, the following operational, safety and maintenance issues were identified for the Newport motor vehicle system. ODOT has quantitative performance targets for its highways based on traffic delays, which were applied to determine if conditions were acceptable or not. A total of 20 intersections were selected for the operational analysis review.

- Six of the intersections on US 101 are expected to have major delays for motor vehicle traffic. This includes three locations that are controlled by traffic signals (at NE 52nd Street, US 20, and Hurbert Street) and three stop controlled intersections (at NE 73rd Street, Oceanview Drive, and Angle Street)
- Many other intersections along US 101 that were not specifically analyzed are expected to have limited access and severe delays during peak hours for traffic intending to turn left onto the highway. Several neighborhoods derive their only access from US 101. Public feedback specifically noted NE San-Bay-O Circle near the Fred Meyer store as being difficult to exit during summertime conditions.
- Two of the US 20 intersections are expected to have major delays including SE Benton Street (stop sign controlled on the side street) and NE Harney Street-SE Moore Drive (traffic signal control).
- The US 20/NE Harney Street-SE Moore Drive intersection was also cited by public feedback as being problematic for serving school related traffic before/after school sessions, and for major events at the Lincoln County fairgrounds.
- Other community safety concerns included the lane merging on southbound US 101 approaching Yaquina Bay Bridge, and the irregular access spacing on US 101 near the Newport Cinema.
- Three local bridges were identified as being structurally deficient including US 101 over Big Creek, the Yaquina Bay Bridge, and on Big Creek Road over Big Creek.
- In addition to its weight limited condition, the vehicle traffic using the Yaquina Bay Bridge is expected to grow and it will eventually exceed the carrying capacity.

Walking and Bicycling System Performance

Walking is an important part of local travel options, both within neighborhoods and parks as well as along and across major roadways. Provision of safe and convenient walking options can help the city move towards a complete multimodal transportation system. Today Newport has 33 miles of sidewalks, although about 70 percent of city streets lack sidewalks on at least one side.

Bicycling is common along US 101, which is part of the designated Oregon Coast Bike Route. Cyclists generally ride on the wide paved shoulders on US 101, since there are very limited designated bike lanes on the highway. Off highway, there is about 10 miles of shared-use pathways or trails available, but generally cyclists are required to share the roadway with vehicles. For both walking and bicycling system, a Level of Traffic Stress (LTS) score was determined that represents the user's experience on that route. Based on technical evaluation, field observations, and public feedback, the following walking and bicycling issues were identified:

- For walking travelers, about 25 percent of state highway and city collector street blocks were rated in the low to moderate LTS range, which is generally comfortable for the average traveler.
- For bicyclists, about 15 percent of state highways and 90 percent of city collector streets had low to moderate ratings.
- On the other end of the LTS scale, extreme ratings were shown for 60 percent of the highways for walking travelers, and 85 percent of bicyclists. This is the highest level of stress and is considered very challenging.
- Extreme or high bike LTS was noted due to high speeds and traffic volumes and unprotected bike facilities. This includes both state highways and short segments of NE Harney Street, NE 31st Street, NE Yaquina Heights Drive, SE Bay Boulevard and SE Ferry Slip Road.
- Sixteen of the 20 intersections studied on US 101 and US 20 had extreme or high LTS scores due to non-compliant ADA curb ramps, complex elements or limited refuge or enhancements at the crossing. Bicycling LTS has similar scores at these locations.
- NW Oceanview Drive, a component of the Oregon Coast Bike Route, was rated at extreme level of traffic street between US 101 and the intersection with NW Edenvue Way, and medium level of traffic stress from there to Spring Street.

System deficiencies were noted in cases where the walking or bicycle facilities had major gaps, extreme LTS, or were near important destinations, such as parks, schools, transit stops or essential services. These were flagged to be reviewed for possible system improvements.

Transit Services

Lincoln County Transit operates a city loop bus service, an intercity bus service, and a paratransit service. The loop service through Newport connects key destinations six times each day, seven days a week and in the evening. While most residents and businesses are located within one-half mile of a loop transit stops, the time between buses (up to 90 minutes) and limited-service hours (7 am to 5pm) moderates its effectiveness for residents and visitors.

The intercity transit service operates routes to Corvallis and Albany four times each day, to Lincoln City four times each day, to Yachats four times each day, and to Siletz six times a day between Monday and Saturday.

Lincoln County Transit's paratransit service provides public transportation to persons with disabilities who are unable to use regular fixed route buses. Curb to curb paratransit service, in wheelchair lift equipped minibuses, is available generally between 8:00 a.m. and 3:30 p.m. Monday through Friday.

Lincoln County's transit development plan through 2028 intends to enhance the frequency of services and add more stops on the loop to better serve more riders. This includes two new loop routes with shorter headways between more popular local destinations.

Freight Network

US 101, north of US 20, is a designated federal truck route and US 20, east of US 101, is a designated Oregon freight route. With growing traffic volumes, six intersections along the state highways would not meet their currently adopted mobility target. These are the same six locations noted under the "Motor Vehicle System Performance Issues" section above.

Other locations with identified freight needs include Bay Boulevard, which is a working waterfront and is a key freight generator for the City of Newport. This area is also a tourist destination which can create conflicts between the high volume of pedestrians, passenger cars, and freight vehicles which serve Newport's fishing industry. Freight vehicles face steep grades for northbound traffic approaching the Yaquina Bay Bridge. The recent relocation of the traffic signal from SE 32nd Street to SE 35th Street has improved this operational issue; however, the bridge still has weight limit restrictions.

Airport

The Newport Municipal Airport, owned and operated by the City of Newport, is a public-use airport located east of US 101 off SE 84th Street, approximately five miles south of downtown. This airport provides general aviation for Newport and surrounding coastal communities and is identified as a critical resource by the Oregon Department of Aviation for emergency response following a major earthquake or tsunami. Currently, the airport supports general aviation aircrafts, US Coast Guard helicopters, and air ambulance flights.

Waterways

The Port of Newport maintains and operates separate commercial and recreational marinas to serve Newport's ship traffic. The commercial marina, located on the north side of Yaquina Bay, south of Bay Boulevard includes four docks for commercial vehicles and serves a large, prolific fishing fleet and a yacht club. This marina can accommodate vessels up to 100 feet. The recreational marina is located on the south side of Yaquina Bay, near South Beach, with space for 522 vessels and includes power, water, fuel, and sanitary services as amenities. This marina also serves as a public boat launch with space for trailer storage.

STREET FUNCTIONAL CLASSIFICATION CHANGES

The functional classification of a street or roadway defines how it is intended to be used, and its relative purpose compared to other facilities in the network. Transportation agencies that manage and maintain highway and street systems commonly use this practice, including federal, state, county, and city jurisdictions. The TSP refines the City's street functional classifications to align with local community values. The major changes to the street functional classification designations for City of Newport Streets include the following:

- **Designating State Highways as the only Arterial Roadways** - Several city streets that were previously designated as arterials roadways were downgraded to better match their intended use today and in 2040. Arterial streets are primarily intended to serve regional and through traffic. It is determined that only the two State Highways provide that type of service.

- **Dividing City Collector Streets into Two Tiers, Major and Neighborhood Collector -** The city previously had one category for collector streets, which are intended to connect neighborhoods to each other and to arterial roadways. The top tier collector was renamed to a Major Collector. A second tier of collector roadway was introduced where it was most appropriate to apply traffic calming techniques in neighborhoods, and to tailor bike and pedestrian designs to best match the local environment.
- **Identifying Private Streets** – While not depicted on the functional classification maps, the TSP identifies local streets that are privately owned or maintained by the adjoining property owners as a subset of the local street classification.
- **Local Truck Routes Added** – In addition to the state and federal designated truck routes on US 101 and US 20, there are several city streets that serve as key local truck routes within the community. These routes were added to the city's freight network to highlight the need to design and manage them to serve trucks. Examples include Bay Boulevard, and SE Marine Science Drive.

The new functional classifications for City of Newport streets and freight routes are depicted on Figures 1 through 6 below.

Figure 1: Functional Classification of Roadways – North Map

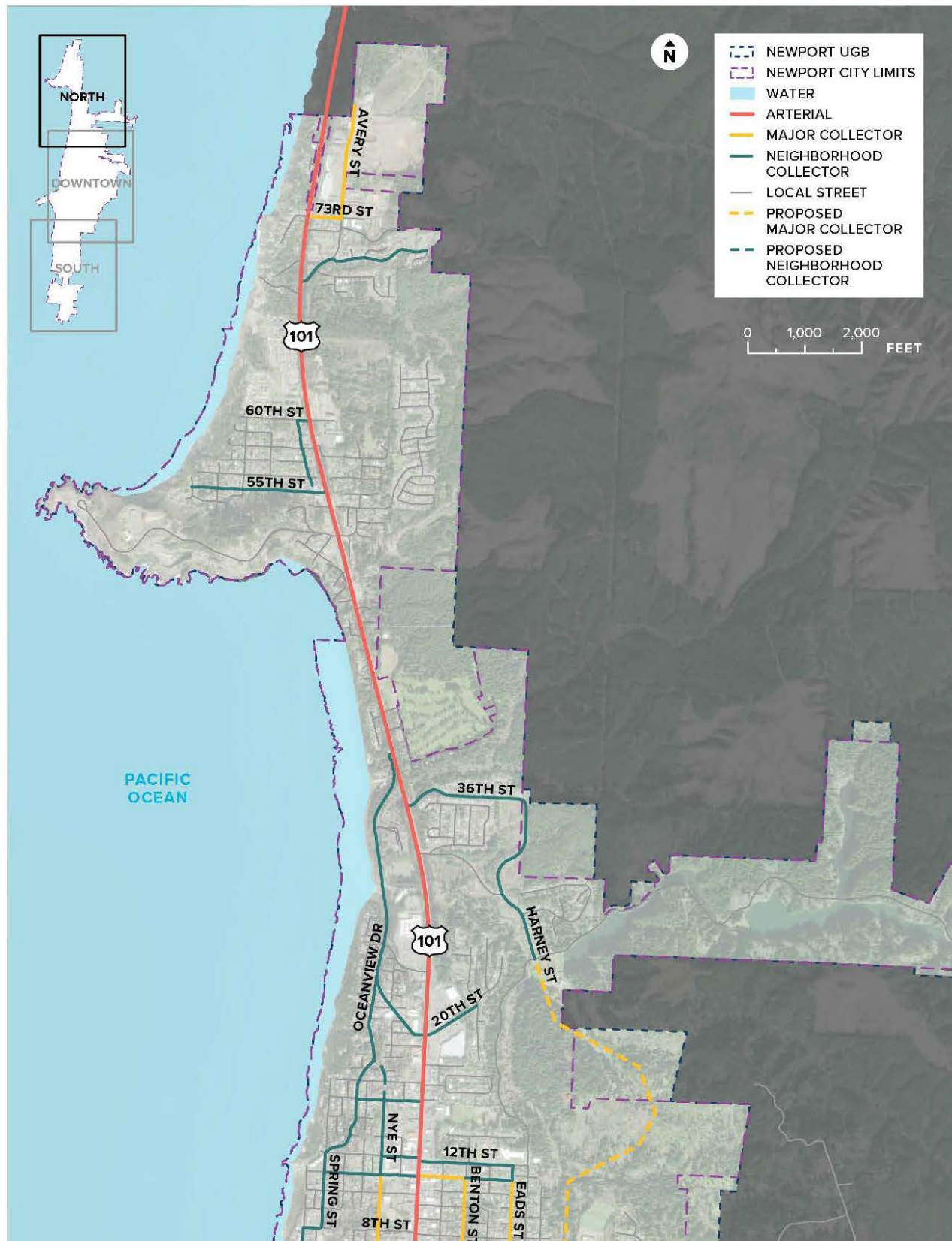


Figure 2: Freight Routes – North Map

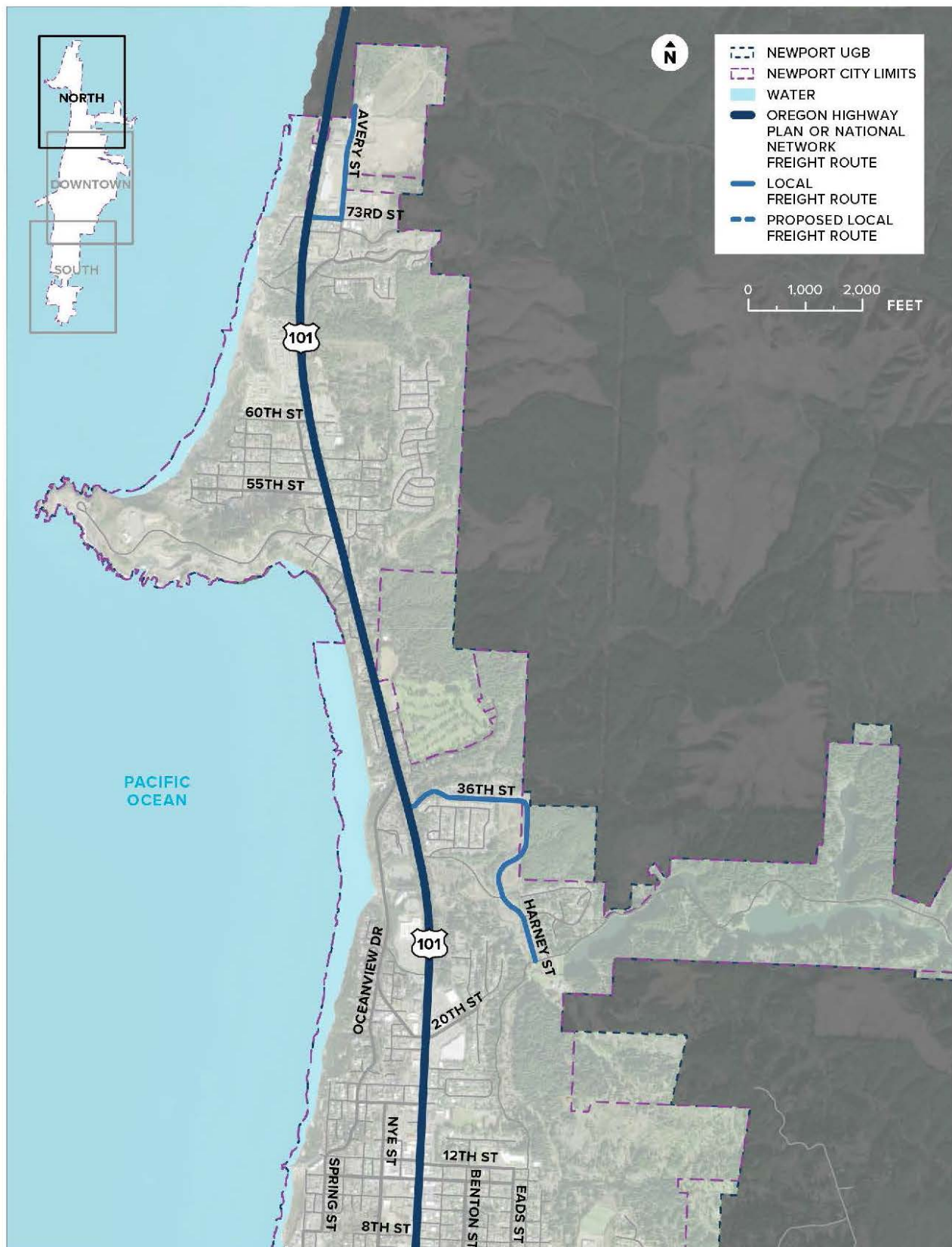


Figure 3: Functional Classification of Roadways – Downtown Map



Figure 4: Freight Routes – Downtown Map

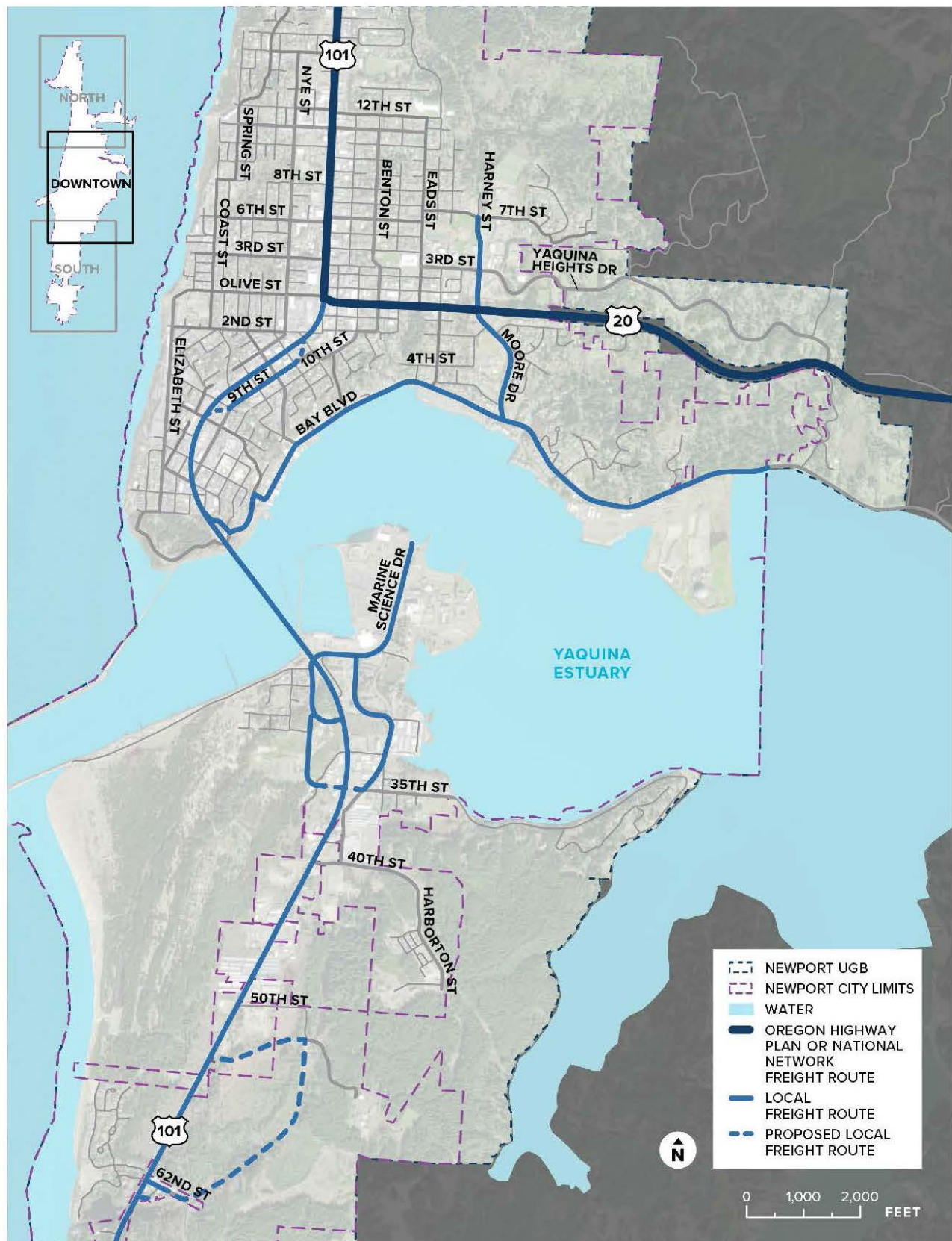


Figure 5: Functional Classification of Roadways – South Beach Map

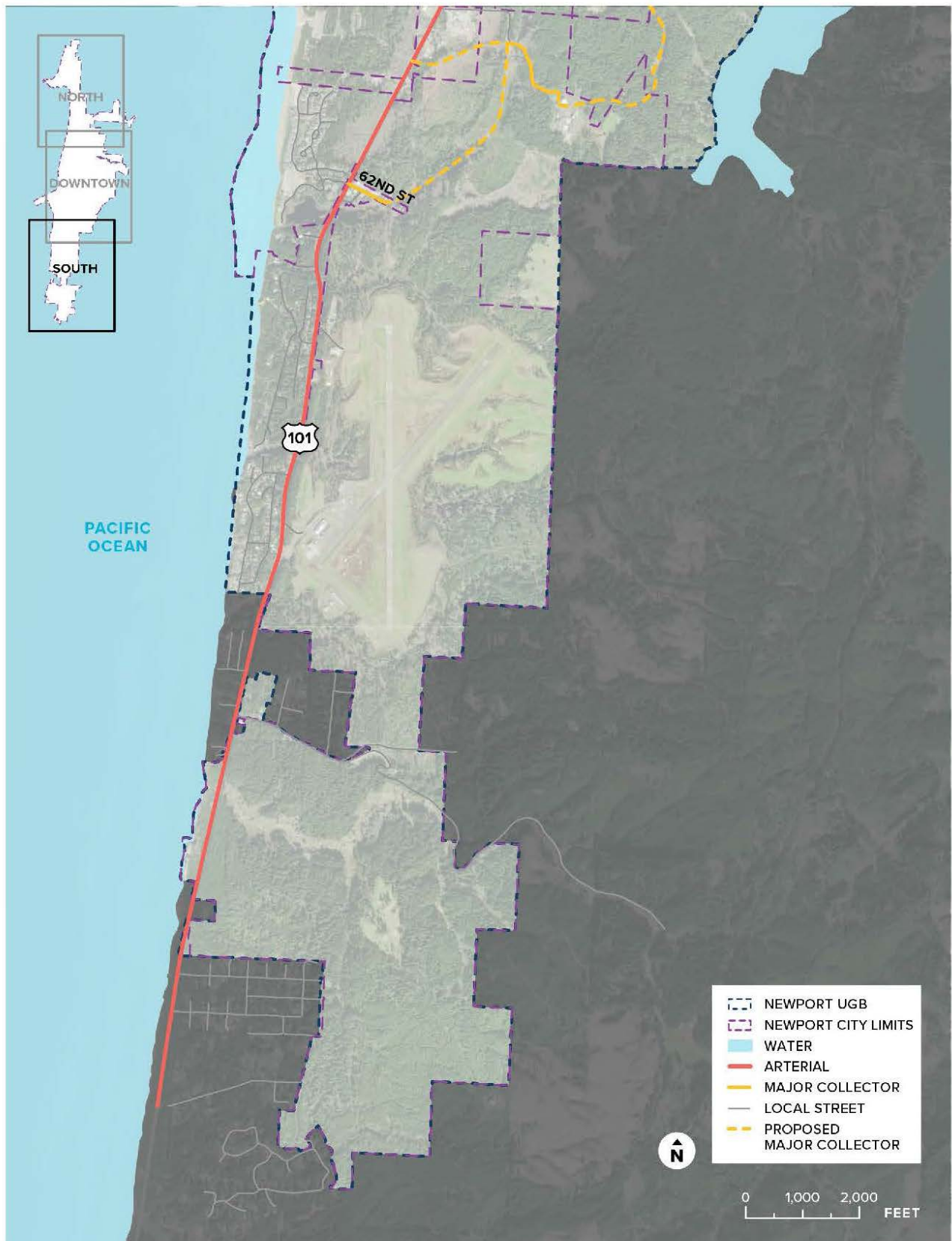
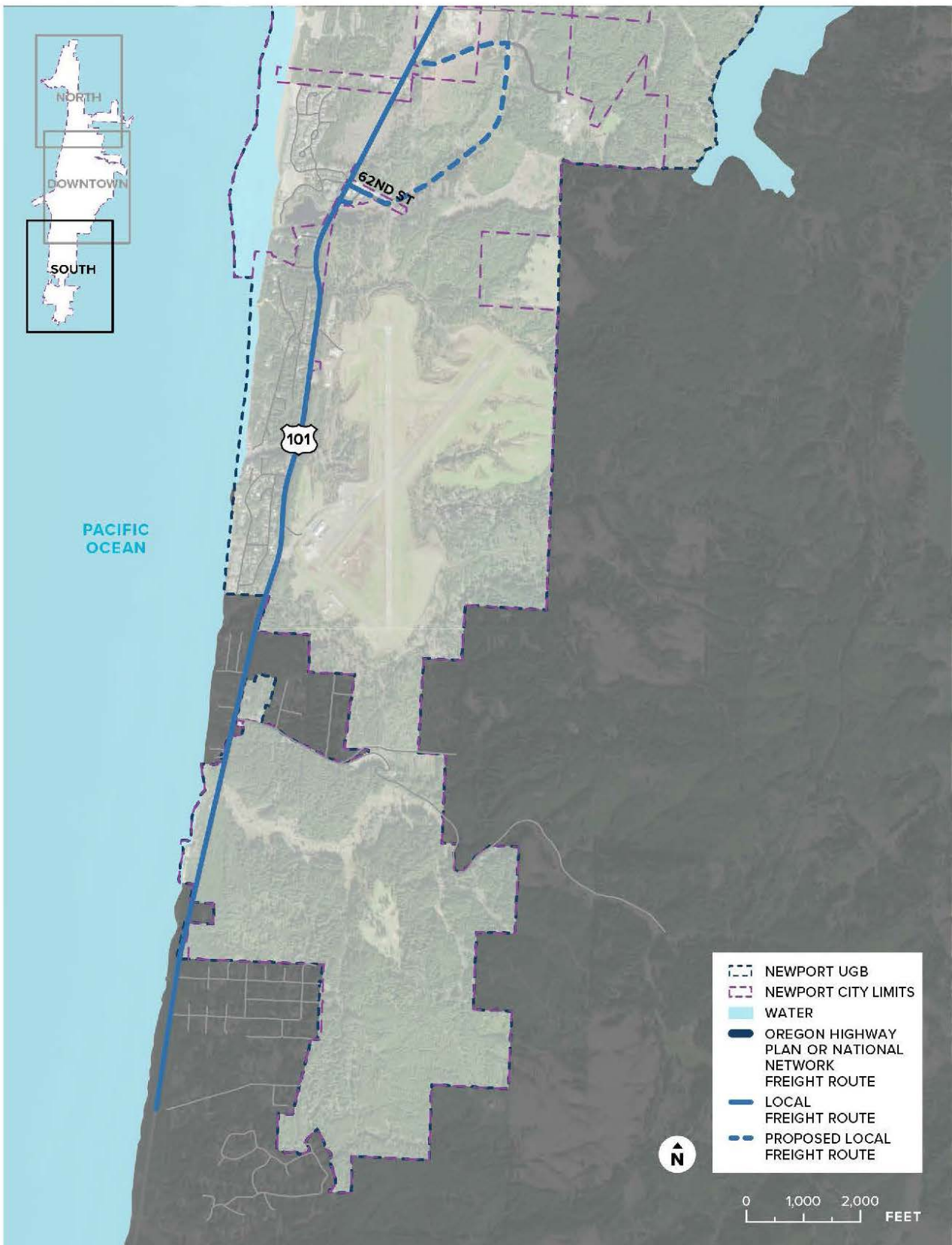


Figure 6: Freight Routes – South Beach Map



MULTIMODAL NETWORK DESIGN

Street designs are based on the functional classifications. City street improvement projects generally accompany newly developing or redeveloping areas of the city. Roadway cross-section design elements include travel lanes, curbs, furnishings/landscape strips, sidewalks on both sides of the road, and bicycle facilities. In some cases, site constraints may prevent minimum standards from being applied, and design exceptions are required.

The TSP includes recommended design standards for all levels of streets, trails and pathways. A summary of the key changes for network design types follows below:

- **Added Yield or Shared Streets** - A new classification for local streets was added to recognize cases where traffic volume is low (fewer than 500 vehicles daily). These cases were referred to as Yield or Shared Streets, and they allow narrower street widths and lower speed limits.
- **Sidewalk Minimum Width Varies** - The minimum sidewalk width was changed to be wider depending on the street classification, and fronting land use types. For example, this allows added space for street side amenities in commercial districts.
- **Bicycle Facilities Tailored to Street Classification** – To better support an integrated bike network, the design standards were modified to better match the required bike facilities with the on-street conditions experienced by cyclists. Where traffic volumes and speeds are high, like on the state highways, wide and protected bike facilities are preferred. Whereas, in neighborhoods the bikes can more readily share the street with motor vehicles.
- **Minimum Pedestrian and Bicycle Facilities** – New design standards are recommended for pedestrian trails, accessways, and shared-use pathways, showing the minimum facility width for each case.

ADDITIONAL TRANSPORTATION PLANNING STANDARDS

A new set of transportation standards is recommended that the City can apply during on-going development review, and when plan amendments are being considered. These new standards provide staff with a quantitative basis for reviewing proposed development plans and other planning proposals that may affect local transportation conditions. The additional standards include the following:

- **Vehicle Mobility Standards** – Define the thresholds of acceptable congestion on city streets for a range of intersection types. These standards can be applied to form the basis for requiring conditions of approval for pending development to ensure that the ultimate facility design matches the expected demands.
- **Multimodal Connectivity** – Define the minimum and maximum spacing standards for block length, driveway spacing, setbacks, and space between ped/bike connections. The intent of these standards is to provide for efficient, safe, and timely multimodal travel, particularly in newer neighborhood designs.

The TSP further highlights unique natural hazards facing the City of Newport, and the City's response to manage those conditions. This includes the Oregon Seismic Lifeline Routes that facilitate emergency evacuation and recovery routes following disasters, such as a tsunami event. Projects are included to

promote seismic resilience on lifeline routes, add pedestrian or bicycle facilities on evacuation routes, and promote wayfinding.

Also highlighted in the TSP are street stormwater drainage management strategies that apply to new development areas and major infrastructure improvements, such as new or expanded roadways. These strategies are acutely important in many areas of the city, and most notably the Agate Beach neighborhood, to mitigate runoff impacts such as further erosion of coastal bluffs.

PROJECT DEVELOPMENT AND FUNDING

Building the updated project list for this TSP involved identifying a several new projects to specifically address new community concerns and combining them with unimplemented past projects from previously adopted transportation plans. The full list of projects is referred to as Aspirational Projects.

A prioritization process was applied to the Aspirational Projects to emphasize improved system efficiency and management over adding capacity. This included four tiers (highest, high, moderate and low). These priority outcomes were then compared to city goals and objectives for the transportation investments. As a result, the higher priority solution types that address identified needs were selected unless a lower priority solution was clearly more cost-effective or better supported the goals and objectives of the city. This process allows the city to maximize use of available funds, minimize impacts to the natural and built environments, and balance investments across all modes of travel.

Each project was reviewed to assess which agency would lead the project and the likely funding source. It is important to note that these funding assumptions do not obligate any agency to commit to these projects. In general, projects were assigned to either the City of Newport or ODOT as the lead agency, with a few cases where they may jointly fund a project. Also, each project was assigned an assumed funding source, which included the City's North Side Urban Renewal District, South Beach Urban Renewal District, and other City/State revenue. It is recognized that there may be other partnering opportunities with ODOT and Lincoln County Transit, these decisions are ultimately up to those agencies. Also, private development will also likely build TSP projects in coordination with land use actions and future development in the city. Based on historical and forecasted funding levels, the city expects to have about \$76 million through the year 2040 for transportation projects in this TSP. This includes about \$38 million for projects in the North Side Urban Renewal District boundary and another \$38 million from other City and State funding sources for other citywide projects. And although it was not included in the TSP revenue forecast, the South Beach Urban Renewal District will also provide an additional \$3 million in funding for remaining projects in the district boundary. This is still far below the funding required to implement all the projects in this plan, which total approximately \$222 million.

FUNDING SOURCE	AMOUNT AVAILABLE BY 2040
NORTH SIDE URBAN RENEWAL DISTRICT	\$37.9 million
OTHER CITY/STATE FUNDS	38.3 million
TOTAL FUNDS AVAILABLE	\$76.0 million
TOTAL ASPIRATION PROJECTS	\$222.5 million

A high priority subset of the City’s Aspirational Projects that are constrained to a level of funding that is expected to be available for the next 20 years is presented in Tables ____ through ____ below. These aspirational projects are referred to as “financially constrained,” as they represent the City’s highest value projects that can reasonably be funded with the known economic constraints through 2040.

The project identification numbers in the first column of the tables are coded to indicate the category of the improvement, as follows:

- “INT” to represent an intersection improvement project
- “EXT” to represent a roadway extension project
- “REV” to represent an existing roadway improvement or reconfiguration project
- “SW” to represent a sidewalk improvement project
- “TR” to represent a trail or shared use path improvement project
- “BR” to represent a bike route improvement project
- “SBL” to represent an improvement project to add separated or buffered bike lanes
- “BL” to represent an improvement project to add standard bike lanes
- “CR” to represent a roadway crossing improvement project
- “PRO” to represent a citywide demand or system management project

Table 1: Aspirational Projects Likely to be Funded – North Map

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
EXT1	NW Gladys Street (from NW 55th Street to NW 60th Street) Improve NW Gladys Street to create a continuous neighborhood collector street.	NURA	\$1,100,000	Tier 2
EXT12 **	NW Nye Street (from NW Oceanview Drive to NW 15th Street) Extend/Improve NW Nye Street to create a continuous neighborhood collector street between NW Oceanview Drive and NW 15th Street. Cost assumes bridge will be needed, installation of a sidewalk, and signing and striping as needed to designate a shared bike route.	City/State Funds	\$3,100,000	Tier 1
REV1 **	NW Oceanview Drive (from NW Nye Street Extension to NW 12th Street) Convert NW Oceanview Drive to one-way southbound between the NW Nye Street Extension and NW 12th Street and shift northbound vehicle traffic to NW Nye Street. Cost assumes utilization of the existing roadway width to include a southbound travel lane for vehicles, and an adjacent shared use path for pedestrians and bicycles. Project EXT12 must be completed before Project REV1.	City/State Funds	\$350,000	Tier 1
SW11 **	SE Benton Street/SE 2nd Street/SE Coos Street/NE Benton Street (from SE 10th Street to NE 12th Street) Complete existing sidewalk gaps.	City/State Funds	\$3,050,000	Tier 2
SW13 **	NW Nye Street (from W Olive Street to NW 15th Street) Complete existing sidewalk gaps.	City/State Funds	\$4,450,000	Tier 2
SW14 **	NW/NE 11th Street (from NW Spring Street to NE Eads Street) Complete existing sidewalk gaps.	City/State Funds	\$2,150,000	Tier 2
SW16	NW Edenvue Way/NE 20th Street (from NW Oceanview Drive to NE Crestview Drive) Complete existing sidewalk gaps.	City/State Funds	\$2,475,000	Tier 2
SW19 **	NW 8th Street/NW Spring Street (from NW Coast Street to NW 11th Street) Complete existing sidewalk gaps.	City/State Funds	\$1,175,000	Tier 2
SW20	NW Gladys Street/NW 55th Street (from NW 60th Street to US 101) Complete existing sidewalk gaps.	NURA	\$1,425,000	Tier 2

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
SW21	US 101 (from NW 25th Street to NE 31st Street) Construct pedestrian path on east side of US 101. Cost assumes 10-ft wide sidewalk with sheet pile wall.	NURA	\$3,100,000	Tier 1
TR1	NW Oceanview Drive (from US 101 to NW Nye Street Extension) Construct a shared use path on one side. The short term improvement along this segment included in Project BR15.	City/State Funds	\$4,775,000	Tier 1
TR3	US 101 (from NW Lighthouse Drive to NW Oceanview Drive) Construct a shared use path on the west side of US 101, with sidewalk infill on the east side. Shared use path project should be consistent with previous planning efforts (e.g., Agate Beach Historic Bicycle/Pedestrian Path, Lighthouse to Lighthouse Path). Cost included with Project TR8.	Federal Funds/ NURA	Included with Project TR8	Tier 1
TR6 **	NE Big Creek Road (from NE Fogarty Street to NE Harney Street) Reconfigure the roadway to provide a shared use path. Cost assumes utilization of the existing roadway width to include a one-way 12 ft. travel lane and an adjacent shared use path.	City/State Funds	\$450,000	Tier 1
TR7	NW Rocky Way (from NW 55th Street to NW Lighthouse Drive) Construct a shared use path and other improvements as identified by the BLM/FHWA. Cost included with Project TR8.	Federal Funds/ NURA	Included with Project TR8	Tier 1
TR8	NW Lighthouse Drive (from US 101 to terminus) Construct a shared use path on one side and other improvements as identified by the BLM/FHWA. Cost includes pedestrian/bicycle crossing improvements at the intersection of US 101/NW Lighthouse Drive, and Projects TR3 and TR7.	Federal Funds/ NURA	\$4,000,000	Tier 1
BR1 **	NE 12th Street (from NE Benton Street to NE Fogarty Street) Install signing and striping as needed to designate a bike route.	City/State Funds	\$25,000	Tier 1
BR2	NE Harney Street/NE 36th Street (from NE Big Creek Road to US 101) Install signing and striping as needed to designate as interim shared bike route. Long term, on-street bike lanes to be provided as part of the Harney Street extension (Project EXT4). Cost assumes interim improvement only.	City/State Funds	\$75,000	Tier 1
BR3 **	NE Eads Street (from NE 1st Street to NE 12th Street) Install signing and striping as needed to designate a bike route.	City/State Funds	\$50,000	Tier 1

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
BR9	<p>NW Edenvue Way/NE 20th Street (from NW Oceanview Drive to NW Crestview Drive)</p> <p>Install signing and striping as needed to designate a bike route. Restripe through US 101/NE 20th Street intersection to provide on-street bike lanes between the NW Edenvue Way/NW 20th Street intersection and the eastern Fred Meyer Driveway.</p>	City/State Funds	\$50,000	Tier 1
BR10	<p>NW 60th Street/NW Gladys Street/NW 55th Street (from US 101 to US 101)</p> <p>Install signing and striping as needed to designate a bike route through Agate Beach.</p>	NURA	\$25,000	Tier 1
BR12	<p>NE Avery Street/NE 71st Street (from US 101 to NE Echo Court)</p> <p>Install signing and striping as needed to designate a bike route.</p>	City/State Funds	\$50,000	Tier 1
BR15	<p>NW Oceanview Drive Interim Improvements (from US 101 to NW Nye Street Extension)</p> <p>Install signing and striping as needed to designate as an interim bike route and implement other improvements as identified in the Oregon Coast Bike Route Plan. Long term improvement along this segment included in Project TR1.</p>	City/State Funds	\$75,000	Tier 1
BR16	<p>NW 55th Street (from NW Gladys Street to NW Pinery Street)</p> <p>Install signing and striping as needed to designate a bike route.</p>	NURA	\$50,000	Tier 1
BR19 **	<p>NW Spring Street/NW Coast Street/SW Alder Street/SW Neff Way (from NW 12th Street to US 101)</p> <p>Install signing and striping as needed to designate a bike route.</p>	City/State Funds	\$75,000	Tier 1
BL2 **	<p>NW Nye Street/SW 7th Street (from NW 15th Street to SW Hubert Street)</p> <p>Restripe NW Nye Street to include on-street bicycle lanes (project removes on-street parking on one side only) between NW 15th Street and SW 2nd Street. Install signing and striping to designate SW 7th Street a shared bike route between SW 2nd Street and SW Hubert Street.</p>	City/State Funds	\$100,000	Tier 1
BL8 **	<p>NW/NE 11th Street (from NW Spring Street to NE Eads Street)</p> <p>Restripe to provide on-street bike lanes (project removes on-street parking on one side, although on-street parking may be impacted on both sides between NW Lake Street and NW Nye Street).</p>	City/State Funds	\$50,000	Tier 1

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
	SW Angle Street/SW 10th Street/SE 2nd Street/SE Coos Street/NE Benton Street (from SW 9th Street to Frank Wade Park)			
BL11 **	Restripe to provide on-street bike lanes (project removes on-street parking on one side between NE 12th Street and US 20). Install signing and striping to designate NE Benton Street a shared bike route between NE 12th Street and NE Chambers Street/Frank Wade Park. Note 5 ft. bike lanes assumed between US 20 and SE 2nd Street. Construct with Project CR2.	City/State Funds	\$150,000	Tier 1
CR1	NW 60th Street/US 101 Install an enhanced pedestrian and bike crossing to connect to the shared-use path on the east side of US 101.	NURA	\$150,000	Tier 1
CR3	NW 55th Street/US 101 Install an enhanced pedestrian and bike crossing to connect to the shared-use path on the east side of US 101.	NURA	\$150,000	Tier 1
CR8	NW 68th Street/US 101 Install an enhanced pedestrian crossing.	City/State Funds	\$150,000	Tier 1
CR10	NW 58th/US 101 Install an enhanced pedestrian and bike crossing to connect to the shared-use path on the east side of US 101.	NURA	\$150,000	Tier 1
CR16 **	NW 8th/US 101 Install an enhanced pedestrian crossing.	NURA	\$150,000	Tier 1
PRO2 ***	Transportation Demand Management Implement strategies to enhance transit use in Newport. Specific strategies could include public information, stop enhancements, route refinement, or expanded service hours.	City Funds	\$475,000	Tier 2
PRO3 ***	Neighborhood Traffic Management Implement a neighborhood traffic calming program.	City Funds	\$475,000	Tier 1
Notes:				
** Project overlaps two of the map areas and is therefore displayed in both project tables and corresponding maps.				
*** Project is not displayed on a map but applies in the north map area.				
Project Horizon: Tier 1 = Years 1 to 10; Tier 2 = Years 11 to 20				

Figure 7: Aspirational Motor Vehicle Projects Likely to be Funded – North Map

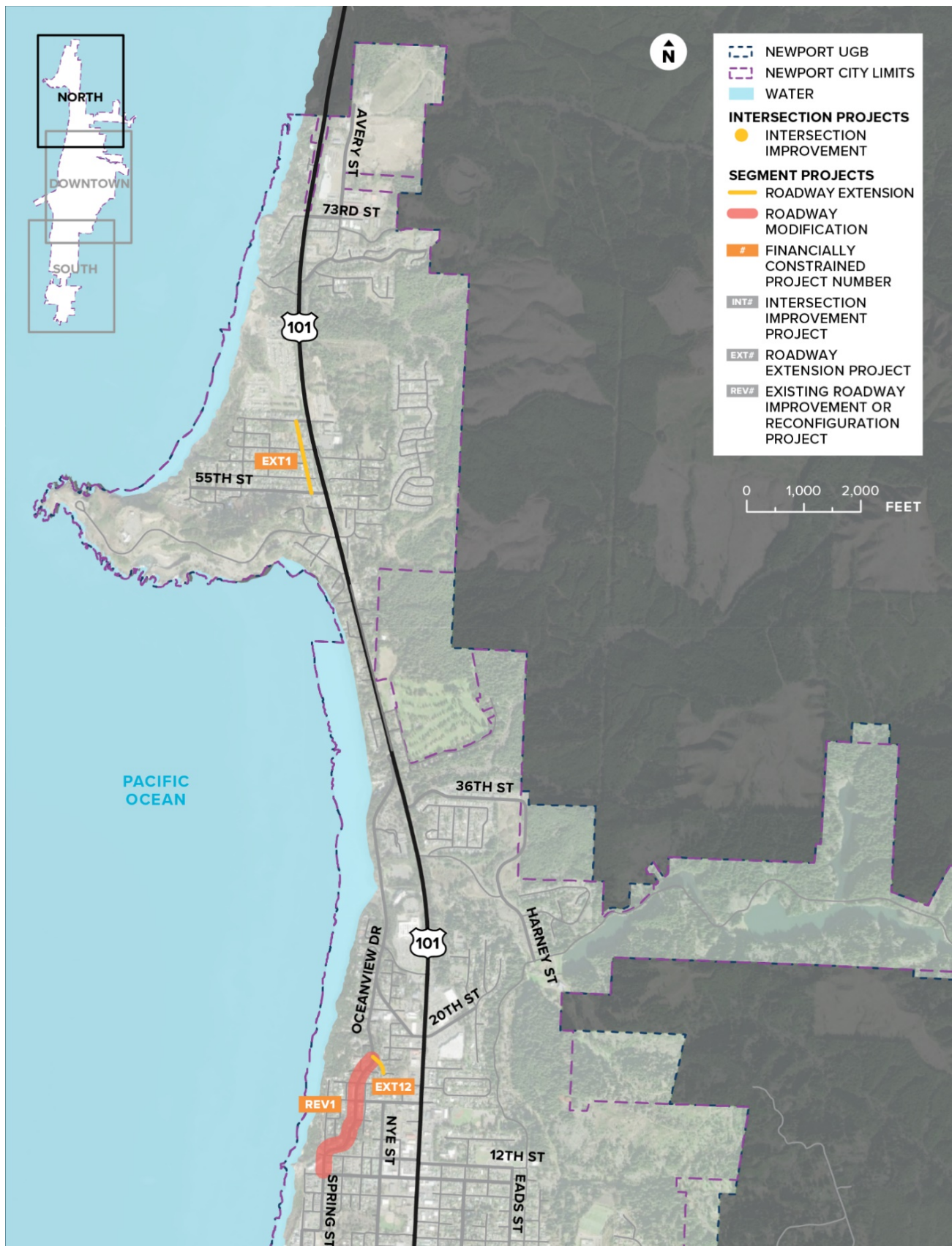


Table 2: Aspirational Projects Likely to be Funded – Downtown Map

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
	US 101/US 20			
INT4	Construct a second southbound left turn lane. Requires a signal modification, widening along US 101 and along the south side of US 20 to support a second receiving lane, and conversion of the US 101/NE 1 st Street intersection to right-in, right-out movements only.	NURA	\$5,000,000	Tier 1
	US 20/SE Moore Drive/NE Harney Street			
INT6	Improve the intersection with a traffic signal (with separate left turn lanes on the northbound and southbound approaches). Coordinate improvements with Project SBL1.	NURA	\$1,050,000	Tier 1
	US 101/SW 40th Street			
INT9	Improve the intersection with a traffic signal. Cost assumes installation of a traffic signal, curb ramps, striping, signing and repaving, as identified in the South Beach Refinement Plan.	SBURA	\$1,550,000	Tier 1
	NW Nye Street (from NW Oceanview Drive to NW 15th Street)			
EXT12 **	Extend/Improve NW Nye Street to create a continuous neighborhood collector street between NW Oceanview Drive and NW 15 th Street. Cost assumes bridge will be needed, installation of a sidewalk, and signing and striping as needed to designate a shared bike route.	City/State Funds	\$3,100,000	Tier 1
	NW Oceanview Drive (from NW Nye Street Extension to NW 12th Street)			
REV1 **	Convert NW Oceanview Drive to one-way southbound between the NW Nye Street Extension and NW 12 th Street and shift northbound vehicle traffic to NW Nye Street. Cost assumes utilization of the existing roadway width to include a southbound travel lane for vehicles, and an adjacent shared use path for pedestrians and bicycles. Project EXT12 must be completed before Project REV1.	City/State Funds	\$350,000	Tier 1
	Yaquina Bay Bridge Refinement Plan			
REV5	Conduct a study to identify the preferred alignment of a replacement bridge, typical cross-section, implementation, and feasibility, and implement long-term recommendations from the Oregon Coast Bike Route Plan.	City/State Funds	\$500,000	Tier 1

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
REV6	<p>US 101 and SW 9th Street (from SW Abbey Street to SW Angle Street)</p> <p>Convert US 101 to one-way southbound between SW Abbey Street and SW Angle Street, and shift northbound US 101 to SW 9th Street. Cost assumes cross-sections as identified in Chapter 5 of this TSP, construction of new roadway segments to transition northbound traffic to and from SW 9th Street, and some intersection and crossing improvements. Specific treatments will be identified during design phase of the project.</p>	NURA	\$11,700,000	Tier 1
REV7	<p>US 20 (from US 101 to NE Harney Street)</p> <p>Enhance the existing street cross-section with widened sidewalks and new landscape buffers. Cost assumes cross-sections as identified in Chapter 5 of this TSP, with on-street bicycle lanes only provided between SE Fogarty Street and NE Harney Street. Requires a design exception and documented public acceptance. Parallel bicycle facilities provided between US 101 and SE Fogarty Street in Project BR5, TR12 and BL3.</p>	NURA	\$6,500,000	Tier 1
SW2	<p>NE 3rd Street (from NE Eads Street to NE Harney Street)</p> <p>Complete existing sidewalk gaps.</p>	City/State Funds	\$950,000	Tier 2
SW3	<p>SW Elizabeth Street (from W Olive Street to SW Government Street)</p> <p>Complete existing sidewalk gaps.</p>	City/State Funds	\$2,600,000	Tier 2
SW6	<p>NE 7th Street (from NE Eads Street to NE 6th Street)</p> <p>Complete existing sidewalk gaps.</p>	City/State Funds	\$2,175,000	Tier 2
SW8	<p>NE Harney Street (from US 20 to NE 3rd Street)</p> <p>Complete existing sidewalk gaps.</p>	NURA	\$700,000	Tier 2
SW11 **	<p>SE Benton Street/SE 2nd Street/SE Coos Street/NE Benton Street (from SE 10th Street to NE 12th Street)</p> <p>Complete existing sidewalk gaps.</p>	City/State Funds	\$3,050,000	Tier 2
SW12	<p>SW 2nd Street (from SW Elizabeth Street to SW Nye Street)</p> <p>Complete existing sidewalk gaps.</p>	City/State Funds	\$1,275,000	Tier 2
SW13 **	<p>NW Nye Street (from W Olive Street to NW 15th Street)</p> <p>Complete existing sidewalk gaps.</p>	City/State Funds	\$4,450,000	Tier 2
SW14 **	<p>NW/NE 11th Street (from NW Spring Street to NE Eads Street)</p> <p>Complete existing sidewalk gaps.</p>	City/State Funds	\$2,150,000	Tier 2

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
SW18	SE 35th Street (from SE Ferry Slip Road to South Beach Manor Memory Care) Complete existing sidewalk gaps as identified in the South Beach Refinement Plan.	SBURA	\$750,000	Tier 1
SW19 **	NW 8th Street/NW Spring Street (from NW Coast Street to NW 11th Street) Complete existing sidewalk gaps.	City/State Funds	\$1,175,000	Tier 2
SW29	US 101 (from SE Ferry Slip Road to SE 40th Street) Complete the sidewalk gaps on the east side.	City/State Funds	\$425,000	Tier 2
TR6 **	NE Big Creek Road (from NE Fogarty Street to NE Harney Street) Reconfigure the roadway to provide a shared use path. Cost assumes utilization of the existing roadway width to include a one-way 12 ft. travel lane and an adjacent shared use path.	City/State Funds	\$450,000	Tier 1
TR12	SE 1st Street (from SE Douglas Street to SE Fogarty Street) Construct a shared use path. Cost assumes bridge will be needed.	NURA	\$2,550,000	Tier 1
BR1 **	NE 12th Street (from NE Benton Street to NE Fogarty Street) Install signing and striping as needed to designate a bike route.	City/State Funds	\$25,000	Tier 1
BR3 **	NE Eads Street (from NE 1st Street to NE 12th Street) Install signing and striping as needed to designate a bike route.	City/State Funds	\$50,000	Tier 1
BR5	SE 1st Street (from SE Coos Street to SE Fogarty Street), SE Fogarty Street (from US 20 to SE 2nd Street), and SE 2nd Street (SE Fogarty Street to SE Moore Drive) Install signing and striping as needed to designate a bike route. Project TR12 must be completed before/with Project BR5.	NURA	\$25,000	Tier 1
BR7	SW 2nd Street/SW Angle Street (from SW Elizabeth Street to SW 10th Street) Install signing and striping as needed to designate a bike route. Specific intersection treatments at US 101 and SW 9th Street intersections to be determined with Project REV6.	City/State Funds	\$50,000	Tier 1
BR13	NW 3rd Street (from US 101 to NW Cliff Street) Install signing and striping as needed to designate a bike route.	City/State Funds	\$50,000	Tier 1
BR14	Yaquina Bay Bridge Interim Improvements Install signing as needed to designate a bike route and implement other improvements as identified in the Oregon Coast Bike Route Plan such as flashing warning lights or advisory speed signs.	City/State Funds	\$75,000	Tier 1
BR17	NW 6th Street (from NW Coast Street to NW Nye Street) Install signing and striping as needed to designate a bike route.	City/State Funds	\$25,000	Tier 1

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
BR18	NE 7th Street/NE 6th Street (from NE Eads Street to NE Laurel Street) Install signing and striping as needed to designate a bike route.	City/State Funds	\$50,000	Tier 1
BR19 **	NW Spring Street/NW Coast Street/SW Alder Street/SW Neff Way (from NW 12th Street to US 101) Install signing and striping as needed to designate a bike route.	City/State Funds	\$75,000	Tier 1
SBL1	SE Moore Drive/NE Harney Street (from SE Bay Boulevard to NE 7th Street) Restripe to install buffered bike lanes between SE Bay Boulevard and US 20; Widen to install buffered bike lanes between US 20 and NE Yaquina Heights Drive; Restripe and upgrade the existing on-street bike lanes between NE Yaquina Heights Drive and NE 7th Street (project removes on-street parking on one side only). Coordinate improvements through the US 20 intersection with Project INT6.	NURA	\$825,000	Tier 1
SBL2	US 101 (from Yaquina Bay Bridge to SW Abbey Street) Construct a separated bicycle facility on US 101. Note the specified facility design and project extents are subject to review and modification.	NURA	\$1,350,000	Tier 1
SBL4	US 101 (from Yaquina Bay Bridge to SE 35th Street) Construct a separated bicycle facility on US 101. Note the specified facility design and project extents are subject to review and modification.	City/State Funds	\$925,000	Tier 1
BL1	SW Canyon Way (from SW 9th Street to SW Bay Boulevard) Restripe to provide on-street bike lanes in uphill direction and mark sharrows in the downhill direction (project may require conversion of angle parking near SW Bay Boulevard to parallel parking).	City/State Funds	\$25,000	Tier 1
BL2 **	NW Nye Street/SW 7th Street (from NW 15th Street to SW Hurbert Street) Restripe NW Nye Street to include on-street bicycle lanes (project removes on-street parking on one side only) between NW 15th Street and SW 2nd Street. Install signing and striping to designate SW 7th Street a shared bike route between SW 2nd Street and SW Hurbert Street.	City/State Funds	\$100,000	Tier 1
BL3	NE 1st Street (from US 101/NE 1st Street intersection to US 20/NE Fogarty Street intersection) Restripe to provide on-street bike lanes (project removes on-street parking on one side).	NURA	\$100,000	Tier 1

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
BL4	SW 9th Street (from US 101 to SW Fall Street) Restripe or widen as needed to provide on-street bike lanes (project removes on-street parking).	NURA	\$465,000	Tier 1
BL5	SW Bayley Street (from US 101 to SW Elizabeth Street) Restripe to provide on-street bike lanes (project removes on-street parking on one side).	NURA	\$25,000	Tier 1
BL6	SW Hubert Street (from SW 9th Street to SW 2nd Street) Restripe to provide on-street bike lanes (existing angle parking will be converted to parallel parking on one side). Specific intersection treatments at US 101 and SW 9th Street intersections to be determined with Project REV6.	NURA	\$25,000	Tier 1
BL7	NW/NE 6th Street (from NW Nye Street to NE Eads Street) Restripe or widen as needed to provide on-street bike lanes (project removes on-street parking on one side).	City/State Funds	\$775,000	Tier 1
BL8 **	NW/NE 11th Street (from NW Spring Street to NE Eads Street) Restripe to provide on-street bike lanes (project removes on-street parking on one side, although on-street parking may be impacted on both sides between NW Lake Street and NW Nye Street).	City/State Funds	\$50,000	Tier 1
BL9	NE 3rd Street (from NE Eads Street to NE Harney Street) Widen as needed to provide on-street bike lanes.	City/State Funds	\$525,000	Tier 1
BL11 **	SW Angle Street/SW 10th Street/SE 2nd Street/SE Coos Street/NE Benton Street (from SW 9th Street to Frank Wade Park) Restripe to provide on-street bike lanes (project removes on-street parking on one side between NE 12th Street and US 20). Install signing and striping to designate NE Benton Street a shared bike route between NE 12th Street and NE Chambers Street/Frank Wade Park. Note 5 ft. bike lanes assumed between US 20 and SE 2nd Street. Construct with Project CR2.	City/State Funds	\$150,000	Tier 1
BL12	SW Elizabeth Street (from SW Government Street to W Olive Street) Restripe to provide on-street bike lanes (project removes on-street parking on one side).	City/State Funds	\$75,000	Tier 1
BL13	W Olive Street (from SW Elizabeth Street to US 101) Restripe to provide on-street bike lanes (project removes on-street parking on one side). Note project requires modification of existing curb extensions at Coast Street; on-street bike lanes may terminate prior to the US 101 intersection to provide space for turn pockets.	City/State Funds	\$150,000	Tier 1

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
BL14	Yaquina Bay Road (from SE Moore Drive to SE Running Spring) Restripe or widen as needed to provide on-street bike lanes.	City/State Funds	\$1,625,000	Tier 1
CR2	SE Coos Street/US 20 Install an enhanced pedestrian and bicycle route crossing. Construct with Project BL11.	NURA	\$200,000	Tier 1
CR4	NE Fogarty Street/US 20 Install an enhanced pedestrian and bicycle route crossing. This intersection should be designed to facilitate bicycle turn movements from US 20 on-street bike facilities to/from parallel bike facilities on side streets to the north and south. Construct with Project BR5 and/or Project BL3.	NURA	\$200,000	Tier 1
CR6	SE 32nd Street/US 101 Install an enhanced pedestrian crossing.	City/State Funds	\$100,000	Tier 1
CR7	SW Naterlin Drive/US 101 Improve pedestrian connections between Yaquina Bay Bridge and downtown Newport through pedestrian wayfinding, marked crossings, and other traffic control measures.	City/State Funds	\$25,000	Tier 1
CR16 **	NW 8th/US 101 Install an enhanced pedestrian crossing.	NURA	\$150,000	Tier 1
CR18	SW Bay/US 101 Install an enhanced pedestrian crossing.	NURA	\$150,000	Tier 1
PRO1 ***	Parking Management Implement additional parking management strategies for the Nye Beach and Bayfront Areas. Strategies could include metering, permits, or other time restrictions.	City Funds	\$600,000	Tier 1
PRO2 ***	Transportation Demand Management Implement strategies to enhance transit use in Newport. Specific strategies could include public information, stop enhancements, route refinement, or expanded service hours.	City Funds	\$475,000	Tier 2
PRO3 ***	Neighborhood Traffic Management Implement a neighborhood traffic calming program.	City Funds	\$475,000	Tier 1

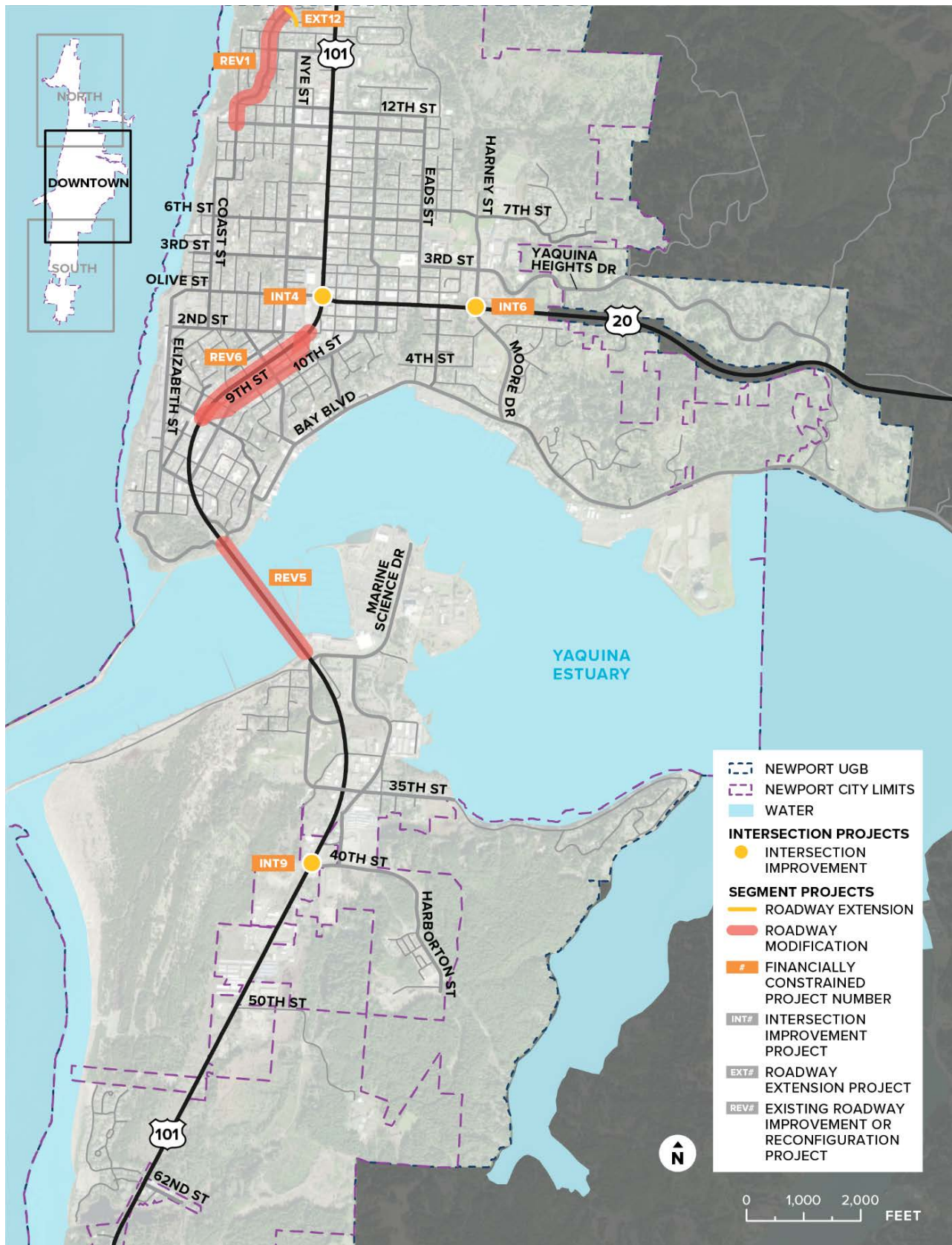
Notes:

** Project overlaps two of the map areas and is therefore displayed in both project tables and corresponding maps.

*** Project is not displayed on a map but applies in the downtown map area.

Project Horizon: Tier 1 = Years 1 to 10; Tier 2 = Years 11 to 20

Figure 9: Aspirational Motor Vehicle Projects Likely to be Funded – Downtown Map



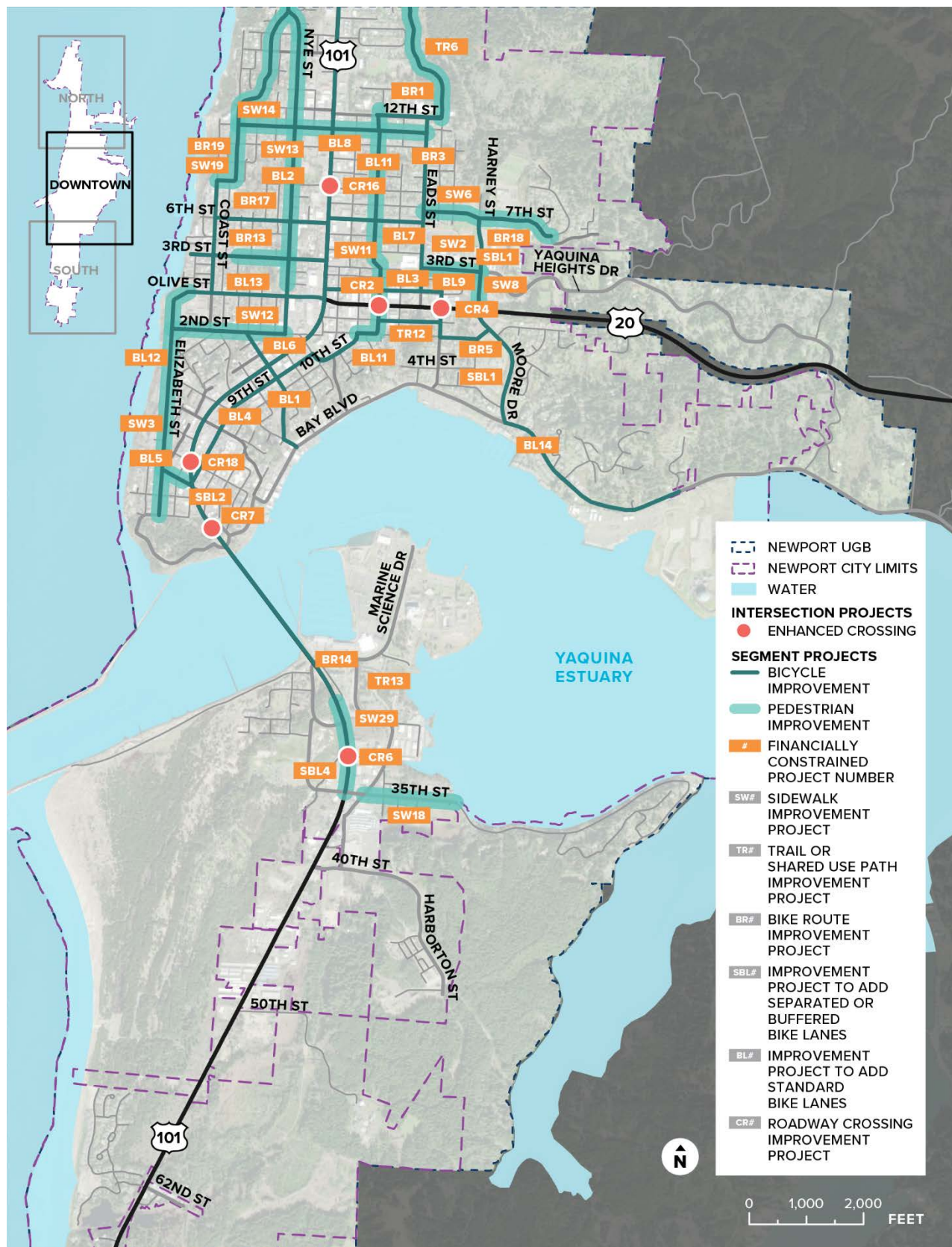


Table 3: Aspirational Projects Likely to be Funded – South Map

Financially constrained projects within the South Map area are depicted on the downtown map set, or they are program management investments or a broad set of system improvements that cannot be readily mapped.

PROJECT ID	PROJECT DESCRIPTION	POTENTIAL FUNDING SOURCE	ESTIMATED PROJECT COST (2021 DOLLARS)	PRIORITY HORIZON
TR13 **	South Beach Improvements			
	Pedestrian and bicycle priority improvements as identified in the South Beach Refinement Plan. This project does not include the cost associated with Project SW18.	SBURA	\$700,000	Tier 1
PRO2 **	Transportation Demand Management			
	Implement strategies to enhance transit use in Newport. Specific strategies could include public information, stop enhancements, route refinement, or expanded service hours.	City Funds	\$475,000	Tier 2
PRO3 **	Neighborhood Traffic Management			
	Implement a neighborhood traffic calming program.	City Funds	\$475,000	Tier 1
Notes:				
** Project is not displayed on a map but applies in the south map area.				
Project Horizon: Tier 1 = Years 1 to 10; Tier 2 = Years 11 to 20				

TARGETED TRANSPORTATION STUDIES

A series of studies were conducted that provided greater depth of technical review and public engagement than is common for a TSP update. The focus of these special studies included corridor solutions along US 101 and US 20 in the downtown area, and a closer look at the feasibility, effectiveness, and cost to construct a proposed Harney Street extension. The 2012 TSP shows a proposed Harney Street extension parallel to US 101 north of US 20 to NE 36th Street that would provide alternative circulation for longer trips to relieve congestion in the downtown area.

Each of these projects represent large-scale capital investments that could significantly alter Newport's transportation network and travel patterns by increasing roadway capacity for motor vehicles, bicycles, and pedestrians. In addition to mobility and access improvements, the highway corridor studies also sought to leverage economic development opportunities to revitalize the downtown commercial core area. The following discussion summarize results of each special transportation study. Please refer to the full TSP and the Solutions Evaluation (Technical Memo #8) in the TSP Appendix for full details.

US 101 Downtown Corridor (SW 9th Street to SW Angle Street) – Three options were considered for this corridor. Two involved forming one-way couplets with the existing highway and SW 9th Street, and one retained the highway on its current alignment. However, that concept also includes providing quality bicycle facilities on parallel routes of SE 9th Street to reduce impacts to properties adjacent to the highway. The one-way couplets would provide for southbound traffic along the present highway alignment, and northbound flow along SW 9th Street. The difference between the two couplets was one

was longer, it began at the existing intersection of SW 9th Street and US 101, and the other was shorter, it began at SW Fall Street. All three options would upgrade the existing roadways to meet current ODOT design standards, which would address the narrow travel lanes, and lack of bike facilities. Based on feedback from the public and the PAC, the Long Couplet options was set aside from further review. It was agreed that the Long Couplet concept was not worth the extra investment for a longer improved facility, especially since the area around the hospital complex was already being redeveloped along the adjoining parcels nearby. The PAC suggested that the remaining two options advance for further deliberation during the public adoption process of the TSP.

US 20 Downtown Corridor (Harney Street-Moore Drive to US 101) – Two options were considered for this corridor. One involved forming a one-way couplet with the existing highway and NE 1st Street. In this concept, the eastbound flow would use the existing highway, while the westbound flow of traffic would use NE 1st Street. The other option was to upgrade and expand the highway along its present alignment. Based on feedback from the public and the PAC, the preferred option was the existing two-way highway along its current alignment. However, that concept also includes providing quality bicycle facilities on parallel routes of NE 1st Street to reduce impacts to properties adjacent to the highway.

US 20/US 101 Intersection – Several design concepts were evaluated at this location to serve traffic growth and still meet desired performance targets. Concepts included adding more vehicle turning lanes on high volume approaches, restricting Olive Way to westbound only flow, and converting the intersection to a multi-lane roundabout. The preferred concept is to add another southbound left-turn lane from US 101 onto eastbound US 20 (see INT4 for details). Initial sketches were made to illustrate how roadway widening might impact to adjoining properties (see initial diagrams in TSP Appendix ____).

Harney Street Extension (NE 7th Street to NE 36th Street) – The alignment of this proposed extension was evaluated in-depth by project team engineering staff to navigate the many environmental and topographical constraints of this route. These outcomes of these engineering studies show (see Figure 38, Chapter 5) that the primary new construction would be near NE 7th Street, then it bends around the hillside to the east and then connects to the existing Harney Street at NE Big Creek Road. This route was expected to carry moderate traffic volumes that would provide some relief to the US 101 corridor. However, because of the high estimated cost of the construction, at over \$40 million, the PAC recommended that this project be set aside from priority city funding at this time.

NW Nye Street Extension/NW Oceanview Drive – The northerly extension of NW Nye Street to connect to NW Oceanview Drive was recommended to address safety and access concerns in this area (see EXT12 for details). Two circulation options were advanced. The first option limits the Nye Street extension to pedestrian and bike access only with no changes to Oceanview Drive circulation. The second option would allow full motor vehicle, ped/bike use on the Nye Street extension, and restrict Oceanview Drive to one-way southbound for motor vehicles between Nye Street and NE 12th Street. The former northbound travel lane would be restriped as a shared-use path for ped/bike use in the one-way section.

TRANSPORTATION PLANNING IN SOUTH BEACH

Primary access to businesses and residents in South Beach principally relies on US 101. Recent analysis of the transportation system's capability to support existing and future growth indicates that the existing Oregon Highway Plan's (OHP) mobility standards or "targets" would not be met along US 101 for the 2030 planning horizon. This condition results from the combination of background traffic growth (e.g., through traffic) and anticipated development within the South Beach area. Substantial highway improvements in South Beach would not be sufficient to respond to the additional travel demand because the system is limited by the capacity of the Yaquina Bay Bridge, given its physical constraints as well as system infrastructure costs. To respond to this expected future condition, and to come into compliance with the State's expectations for mobility on US 101, the TSP identifies a variety of improvements to local street, bicycle, and pedestrian systems, as well as to US 101 that will improve local circulation and facilitate traffic movements on US 101. The identified improvements on the local roadway system, are described in Table 1¹. The Oregon Transportation Commission recognizes that the mobility targets established in OHP Table 6 may not be feasible or practical in all circumstances. OHP Policy 1F states that alternate mobility targets can be developed to reflect the balance between relevant objectives related to land use, economic development, social equity, and mobility and safety for all modes of transportation. New mobility standards for US 101 have been identified and analyzed in conjunction with planned transportation system improvements in the report titled "Newport Transportation System Plan Update - Alternate Mobility Standards Final Technical Memorandum #13 Summary of Measures of Effectiveness," dated April 2012 in order to confirm that the mobility targets can reasonably be met within the planning horizon.

The Oregon Transportation Commission has sole authority to set standards for state facilities. The City supports the application of alternative mobility standards at intersections on US 101 in order to facilitate planned growth in South Beach. This change to mobility standards on US 101 as a result of planning done in 2011-12 represents a decision to accept a higher level of congestion. In recognition of the constraint that the existing Yaquina Bay Bridge poses to access to South Beach, and the lack of funds for large capacity improvements on the highway system in the foreseeable future, the City has chosen to help implement the State's alternate mobility standards, given that a higher level of controlled congestion on US 101 is an acceptable trade-off for accommodating economic development and reduced costs of total transportation system improvements associated with development.

An infrastructure refinement plan was prepared for the Coho/Brant neighborhood concurrent with the preparation of the TSP. That plan identifies needed improvements to local and collector streets in the neighborhood considering the transportation network identified in the TSP update for the greater South Beach area.

Development of an Alternative Mobility Standard

A substantial seasonal increase in traffic volumes occurs on US 101 during the summer months due to tourist traffic. During the peak traffic months of July and August, Newport weekday traffic is 21% higher than the annual average traffic volumes and 40% higher than traffic volumes during January. The Oregon Highway Plan (OHP)'s mobility targets apply during this peak summer traffic period.² Current traffic conditions in South Beach; however, are better than the conditions allowed by the OHP mobility targets.³

¹ In 2012, Ordinance 2045 updated the TSP to include transportation improvements for South Beach. The technical memoranda that constitute the analysis and recommendations for the transportation system in South Beach are documented and included in Ordinance 2045. *Newport Transportation System Plan*

Update - Alternate Mobility Standards Final Technical Memorandum #13 Summary of Measures of Effectiveness informs the development of alternate mobility standards for US 101 in the South Beach study area. The development of these standards is based on the findings of technical memoranda #5, #10, #11 and #12 prepared for the Newport Transportation System Plan (TSP) Update.

² OHP Policy 1F, Table 6.

³ Newport TSP Technical Memorandum #5.

The capacity of the two-lane Yaquina Bay Bridge also affects highway operations in South Beach. The narrow travel lanes, lack of highway shoulders and the significant road grade from the middle of the bridge to its south end in South Beach affect the bridge's capacity when compared to a typical highway. The TSP Update calculated that the two-lane bridge's capacity is about 25% less than a typical highway. No replacement bridge can be expected in the planning horizon to provide additional capacity, so South Beach traffic movements will continue to be affected by this condition in 2030.

OHP mobility targets apply at the end of the planning horizon to evaluate the effect of future community development on highway operations, and substantial development is expected in South Beach during the planning horizon. Traffic volumes that would result from the level of development expected to occur in South Beach by 2030 were combined with ODOT's projections for background traffic growth. These future traffic volumes then were evaluated with the current local road network and current highway configuration, and with the existing road network and a five-lane highway alternative. The analysis showed that the existing network and the existing highway could not meet the OHP mobility targets anywhere in the system. Congestion would be so severe that traffic volumes would exceed the capacity of all highway intersections and the average travel speed would be 3.9 miles per hour for northbound traffic, and 2.5 miles per hour for southbound traffic on the existing highway. When the analysis included a five-lane highway, conditions north of 50th Street still could not meet the OHP targets and still exceeded capacity. South of 50th Street, most highway movements could meet the OHP targets, but none of the intersecting streets could. The average travel speed for a five-lane highway would be less than nine miles per hour for northbound traffic and less than six miles per hour for southbound traffic.⁴

A local road network is proposed in the South Beach Urban Renewal Plan to provide a local transportation system that is better able to support development in South Beach. The network would provide a more interconnected local street system that would allow local travel to occur on city streets rather than solely on the highway. This network was included in the Preferred System for the TSP Update because it would provide better long-term traffic conditions than the existing network and a five-lane highway.

The OHP mobility targets cannot be met on US 101 in South Beach because of high seasonal traffic and the reduced highway capacity caused by the Yaquina Bay Bridge. The OHP calls for consideration of alternative mobility standards where it is infeasible to meet the OHP mobility targets. Future traffic conditions in South Beach will be affected by high seasonal traffic and the reduced capacity of the Yaquina Bay Bridge. The alternative mobility standard incorporates a seasonal adjustment to use the annual average traffic volume; assigns new mobility targets; evaluates mobility only at existing traffic signals and at the locations where signalized intersections are proposed as part of the TSP Update; and accounts for the development of community services in South Beach, thereby minimizing future travel on US 101 to reach such services elsewhere in Newport. The results are alternative mobility standards effective at the current signalized US-101/SE 32nd Street intersection and at the future signalized highway intersections at South 35th Street, SE 40th Street and at SE 50th Street/South Beach State Park.

⁴ Newport TSP Update, Technical Memorandum #11.

Trip Budget Program

The purpose of the Trip Budget Program is to ensure that the planned transportation system meets the needs of existing and future development in South Beach. The underlying premise of the program is that the planned transportation system can accommodate a reasonable level of land development and still operate at an acceptable level. The assumed number of trips that will be generated by development in South Beach over a 20-year planning horizon was determined based on projected population growth and permitted land uses, but with the assumption that not all areas were 100% buildable due to environmental constraints.⁵ The land uses in this scenario, and the vehicular trips this future growth will generate, are anticipated to be accommodated on the adopted planned transportation system over a similar time horizon. The Trip Budget Program will be used to maintain the balance between the expected land uses and the identified needed transportation improvements in South Beach.

The City maintains a zoning overlay for South Beach that sets the parameters for allocating trips to new development and provides a framework for how and when the City of Newport and ODOT will revisit 20-year growth assumptions. The overlay, titled the South Beach Transportation Overlay Zone (“SBTOZ”), includes developable and redevelopable land in the South Beach portion of Newport, from the Yaquina Bay Bridge south to properties accessing SE 62nd Street (Figure 2: South Beach Overlay Zone). The SBTOZ helps the City track the consumption of trips from future development. It is a tool to assess new growth and compare it to the assumptions upon which the transportation system and improvements are based.

TAZ Trip Budgets

The Trip Budget Program is based on the number of trips projected to be generated from new development in South Beach over a 20-year time horizon. South Beach transportation analysis zones (“TAZs”) were created, as shown in Figure 2, to forecast future trips. Future development assumptions were made based on existing land use designations, environmental constraints in the area, and information gathered from property owners and businesses regarding assumptions about the amount of development that could be expected for each of the TAZs within the planning horizon. Table XX lists the TAZs in the SBTOZ and the PM peak hour trip total for each TAZ, at the time of plan adoption. The total number of trips available in the SBTOZ at the time of plan adoption also is shown in Table XX; these totals are the basis for the Trip Budget Program.

⁵ Land Use Scenario #2 in Newport Transportation System Plan Update - Alternate Mobility Standards Technical Memorandum #12 Analysis of South Beach Land Use Scenarios. Further supported by technical reports titled “Review of Newport TSP Update – Technical Memorandum #10: Biological/Wetlands Review” and “Newport Transportation System Plan Update – Alternate Mobility Standards Technical Memorandum #11 2030 Baseline System.”

Table 4: South Beach Overlay Zone Trip Budget Totals

Area	TAZ Trip Budget ¹
Area A	1,237
Area B and C	798
Area D	606
Area E	167
Area F	626
Area G	257
Area H	300
Area I	181
Area J	200
Trip Reserve Total²	490
SBTOZ Trip Total	4,862

¹TAZ Trip Budgets are projected PM Peak Hour Trips forecasted for each TAZ during the next 20 years. TAZ Trip Budgets are based upon Scenario #2 in the "Newport Transportation System Plan Update--Alternate Mobility Standards Final Technical Memorandum #12."
² The SBTOZ Trip Reserve Total is 10% of the PM Peak Hour Trips from each TAZ. These trips can be allocated anywhere within the SBTOZ through Newport Zoning Code provisions.

City shall implement a process for the allocating trips out of the TAZ Trip Budget. Such a process may provide for vesting trips with a valid land use decision or through the issuance of a vesting letter. As part of the trip allocation process, the City is responsible for determining whether or not remaining trips available in the TAZ can accommodate the development proposal. Proposed developments that would generate more PM peak hour trips than what remains in the budget for the TAZ can be approved only by submitting a land use application requesting to use trips from the Trip Reserve Fund or through mitigation supported with a traffic impact analysis.

Trip Reserve Fund

Trips from the Trip Reserve Fund can be allocated to development projects anywhere within the SBTOZ. The trips in the reserve fund were calculated based on the cumulative total of all the TAZs in the SBTOZ and roughly equal 10% of the total PM peak hour trips available in the SBTOZ, as shown in Table 4. Reserve trips may be allocated across TAZ boundaries, to any land use type that is permitted by the underlying zoning.⁶ Through the SBTOZ, the City applies the following criteria to determine when trips should be allocated out of the Trip Reserve Fund to support a proposed development project:

- There are insufficient unassigned trips remaining in the TAZ to accommodate the proposed types of use(s).
- The proposal to use trips from the Trip Reserve Fund to meet the requirements of the Trip Budget is supported by a Transportation Impact Analysis.
- There are sufficient trips available in the Trip Reserve Fund to meet the expected trip generation needs of the proposal.

Approval of the allocation of trips from the Trip Reserve Fund is a discretionary decision, subject to attendant public notice, opportunity to comment, and an appeals process. Allocation of reserve trips is approved only where a transportation analysis demonstrates that the impacts from the proposed development is consistent with the planned preferred transportation system, or that the transportation impacts can be mitigated with improvements proposed as part of the development.

⁶ As opposed to TAZ trips, which must be allocated within the TAZ boundaries where development is proposed.

Transportation Impact Analysis Requirement

To ensure that the number of trips available in the Trip Budget and Trip Reserve Fund are not being exceeded by development, the City will need to know the expected trip generation from each development proposal. In order for this information to be included in a development application, the City has traffic-related submittal requirements in the Zoning Ordinance. For development proposals, including changes in uses that will have a limited impact on the transportation system, this can be accomplished by determining the number of PM peak hour trips expected from the future development and ensuring that the effect to the transportation system is consistent with the transportation improvements planned for South Beach. Additional traffic analysis is required for higher traffic generating uses, such as development proposals that include a requested change in the underlying land use designation or zone or proposals that request trips from the Trip Reserve Fund to support a development proposal. The “two tiered” nature of such submittals in the City Zoning Ordinance requires a Trip Assessment Letter of all applicants, and requires a Transportation Impact Analysis (“TIA”) when certain prescribed threshold conditions are met. The TIA section in the Zoning Code also includes thresholds that, if met or exceeded by a development proposal, would require that a TIA be submitted to the City for review and approval through a Type III review process.

The Zoning Code shall describe the thresholds for requiring a TIA that are applicable to development anywhere in Newport. The required elements of a TIA also are described. However, City staff has some discretion to determine the level of analysis necessary, based in part on the size and expected impact of the proposed project. Initial information on a proposed project and expected transportation impacts is gained through a pre-application conference between City staff and the applicant. The zoning code should allow the City to require needed transportation improvements as a condition of approval when the TIA shows that there is a need for the improvements. A fee-in-lieu option may also be included in the zoning code to provide for some flexibility as to when those improvements are made.

Trip Generation Calculation

The number of PM peak hour trips a proposed development is expected to put on the transportation system is based on trip generation by use in the latest edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual. One identified way to reduce the number of trips across the Yaquina Bay Bridge to reach essential goods and services is to promote a mix of uses in South Beach and to encourage service-related uses not currently found south of the bridge. Consistent with this approach, certain land use types must only consider the “primary trips” for the use rather than the trips that also would accrue from “passby” or “diverted-link” trips. Passby and diverted link trips involve intermediate stops on the way from a trip origin to a primary destination. “Passby” or “diverted linked” trips are identified by the type of use in the latest edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual. The following uses will be required to calculate only “primary trips”:

- Personal service oriented uses, such as professional offices and branch banks.
- Sales or general retail uses, total retail sales area under 15,000 square feet, such as a grocery store. This does not include restaurants.
- Repair oriented uses.

Monitoring the Trip Budget Program

The trip generation information obtained from the Trip Assessment Letter required of each development proposal, as well as alterations or changes in use, in South Beach will be used by City staff to keep the Trip Budget updated. Upon approval of the trip allocation, City staff will update the available PM peak hour trip total for the subject TAZ by deducting the trips allocated to the permitted development. In the case of a change in use, where the new use generates less trips than the previous use, or through mitigation capacity is added to the system then trips may be added to the Trip Budget. The Trip Reserve Fund will be similarly updated when development is allocated trips from the Fund.

The Planning Commission and City Council should receive periodic updates on the status of the Trip Budget. The frequency of these updates may depend upon the respective body's work program but occur at least once a year.

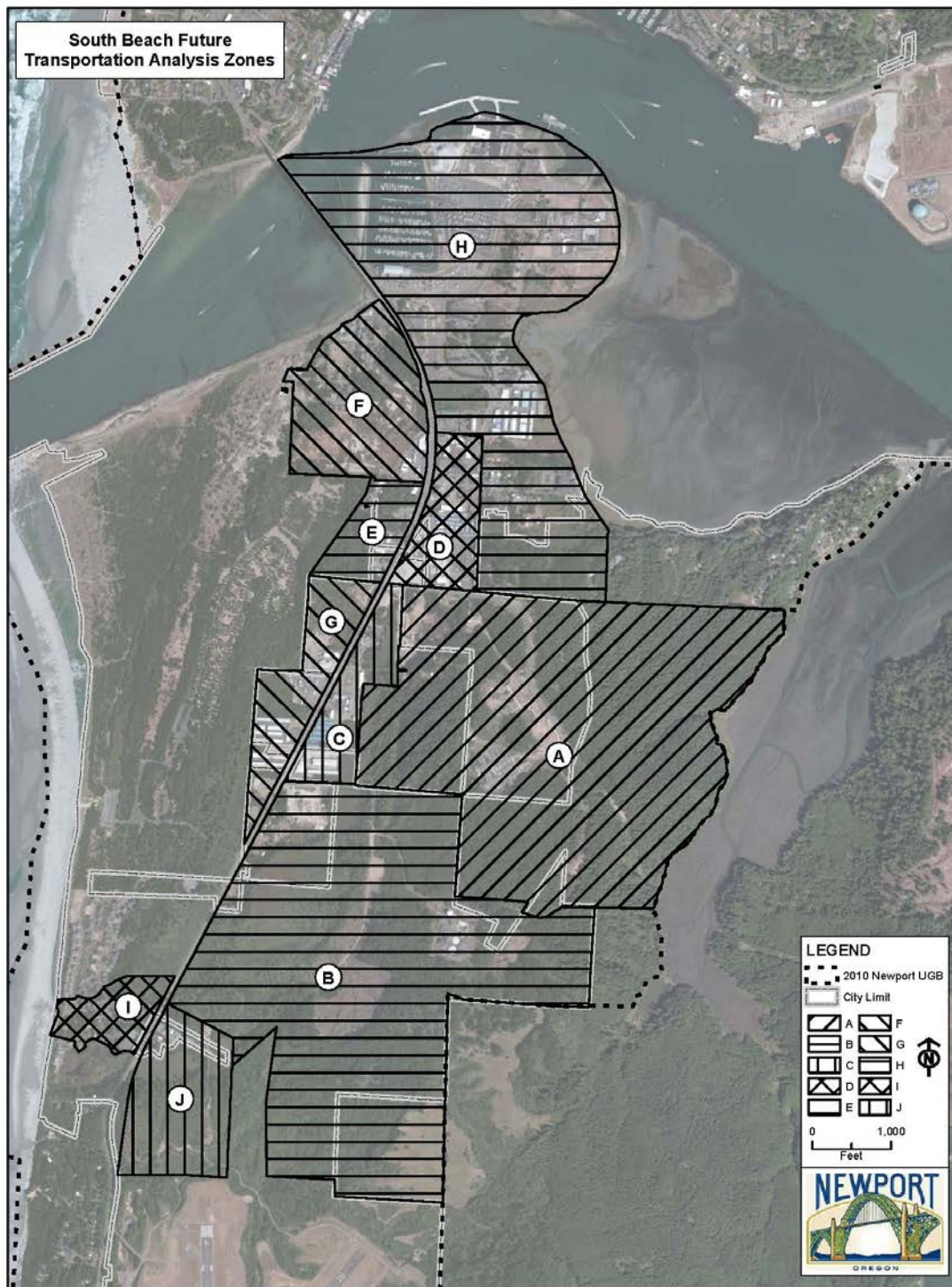
Amending the Trip Budget Program

It is unlikely that development will match up precisely to the assumptions in the future transportation analysis and, despite the flexibility afforded by the trip reserve, the Trip Budget Program may need to be updated to reflect actual development trends or to accommodate economic development opportunities that were not foreseen at the time of its adoption. These updates will be accomplished by:

- A comprehensive reassessment of the trip budget program that will begin no more than 10 years from effective date of Trip Budget Program ordinance.
- A reevaluation of the Newport Transportation System Plan and the associated trip budget will occur when 65% of the total trips in any given TAZ have been committed to permitted development.
 - This review will be initiated no later than 6 months from the time the threshold is reached. In anticipation of development reaching the 65% threshold, the City could also choose to commence the review any time development pressure in a certain TAZ warrants such an action.
 - The development proposal that triggers the 65% Review will not be denied based on this required review. Subsequent development proposals within the subject TAZ may also be reviewed and approved by the City during the review process. If the review necessitates updates to the Trip Budget Program, proposed changes will be adopted through a TSP and associated Zoning Code amendments.
 - To ensure that the 65% Review provides timely information, it will be completed within 12 months from initiation, or pursuant to a schedule that is part of a work program previously agreed upon by both the City and ODOT.

Major updates or adjustments of the land use scenarios and the trip budget for South Beach will require a legislative amendment to the TSP. Transportation Planning Rule findings of compliance with the adopted transportation system plan must support the modification.

Figure 11: South Beach Overlay Zone⁷



⁷ Corresponds with Figure 2-2 from Newport Transportation System Plan Update - Alternate Mobility Standards Technical Memorandum #12 Analysis of South Beach Land Use Scenarios.