ACCESSING

SPACE COAST AREA TRANSIT

November 2018

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ACCESSING
SPACE COAST AREA TRANSIT

To ensure access to transit services by all Brevard County citizens/visitors and to meet Americans with Disabilities Act (ADA) requirements, the Space Coast Transportation Planning Organization (TPO) funded a comprehensive inventory and ADA accessibility assessment of Space Coast Area Transit's (SCAT) bus stops. The study evaluated access to transit in Brevard County and each city within its boundaries that has bus service in an effort to develop an improvement plan that will ensure progress toward achieving ADA compliance at all bus stops served by SCAT. The bus stop data were collected from November 27, 2017 through January 10, 2018.

This publication provides an overview of the inventory and cost assessment and includes information and maps on the following:

- Amenities at each bus stop – number of bus stops, benches, and shelters
- ADA compliance at each bus stop
- Estimated cost to achieve ADA compliance at non-compliant stops (low, medium, high)
- Ridership at each bus stop – number of riders getting on/off buses on a weekday, Saturday, and Sunday
- Demographic characteristics relevant to transit use for the county and each city – population, number of workers, percentages of older adults, youth, persons with disabilities, and low-income and zero-vehicle households

For additional information, including recommended accessibility improvements, refer to the full study, "Space Coast Area Transit Bus Stop Accessibility Study," which details the data collection process, accessibility requirements considered during the assessment, development of a bus stop inventory and database, and steps used to analyze the data and prepare an implementation plan. The study is available at spacecoasttpo.com.

Space Coast Area Transit

BREVARD COUNTY

POPULATION
560,683

WORKERS
233,874

OLDER ADULTS
22.5%

YOUTH (AGES 10–14)
5.6%

PERSONS WITH DISABILITIES
14.9%

LOW-INCOME HOUSEHOLDS (<$25,000)
23.7%

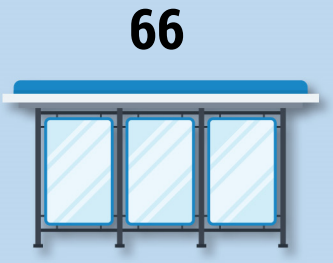
ZERO-VEHICLE HOUSEHOLDS
2.4%

Source:
2012–2016 American Community Survey

AMENITIES

STOPS

BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

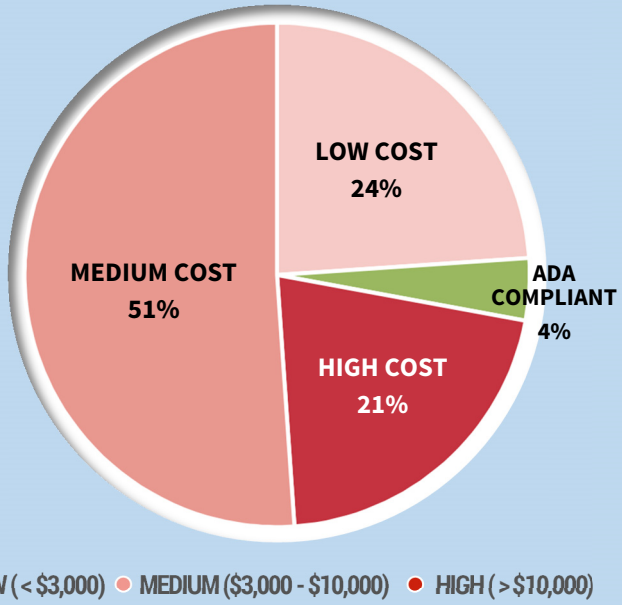
 # OF NON-COMPLIANT STOPS

914
(96%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$8,020,000

COST TO ACHIEVE ADA COMPLIANCE



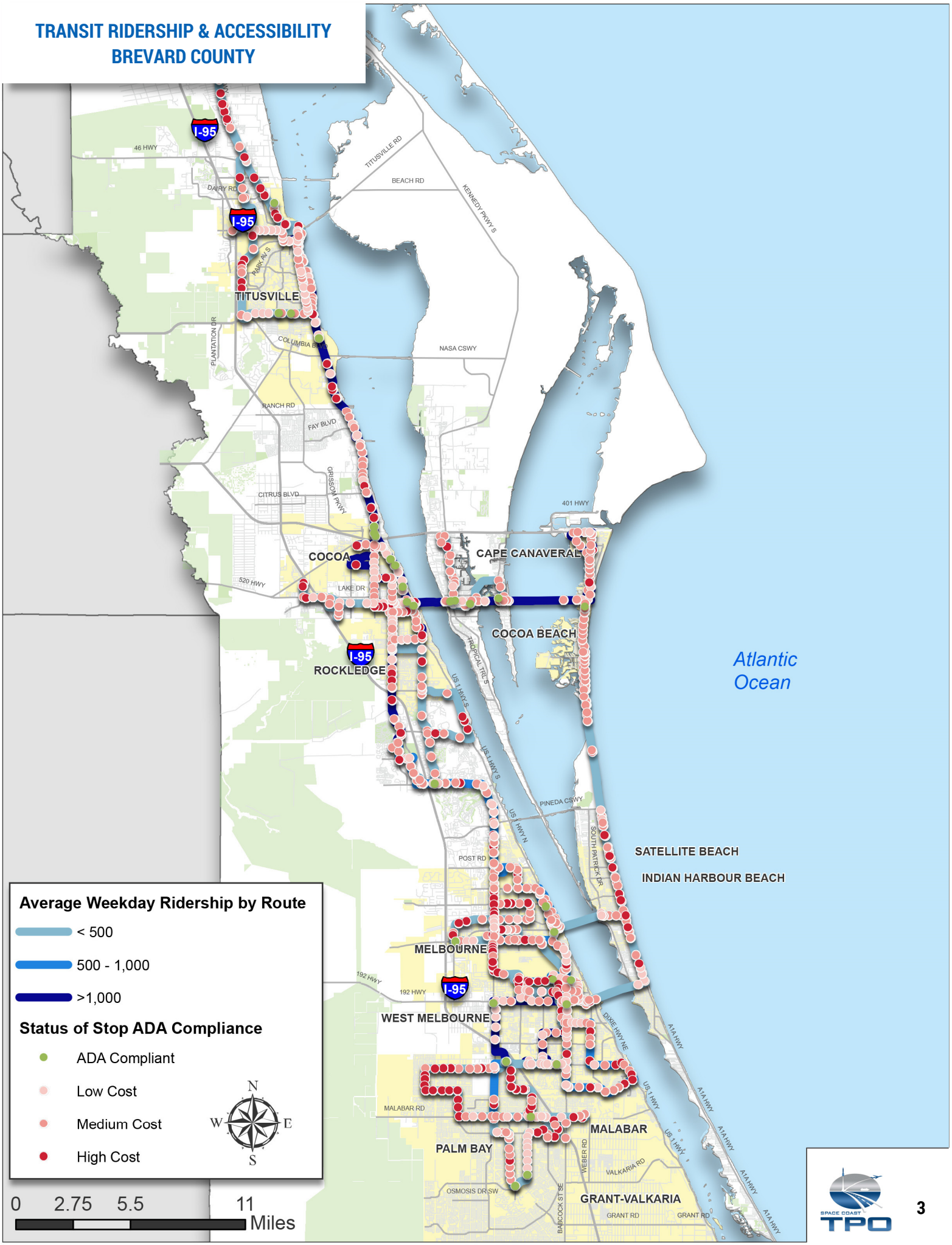
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
BREVARD COUNTY



Space Coast Area Transit

UNINCORPORATED COUNTY

POPULATION
220,402

WORKERS
89,994

OLDER ADULTS
24.3%

YOUTH (AGES 10–14)
5.9%

PERSONS WITH DISABILITIES
15.2%

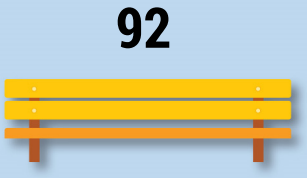
LOW-INCOME HOUSEHOLDS (<$25,000)
7.8%

ZERO-VEHICLE HOUSEHOLDS
2.0%

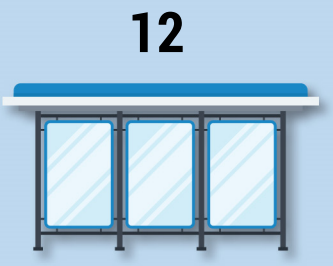
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

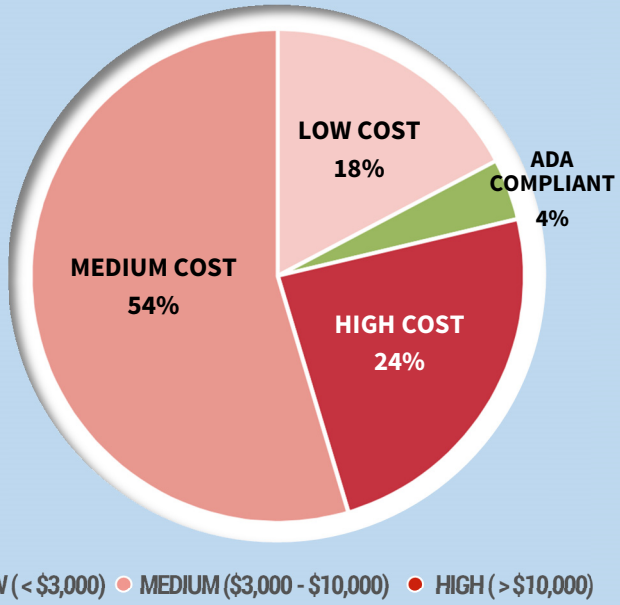
 # OF NON-COMPLIANT STOPS

240
(96%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$2,600,000

COST TO ACHIEVE ADA COMPLIANCE



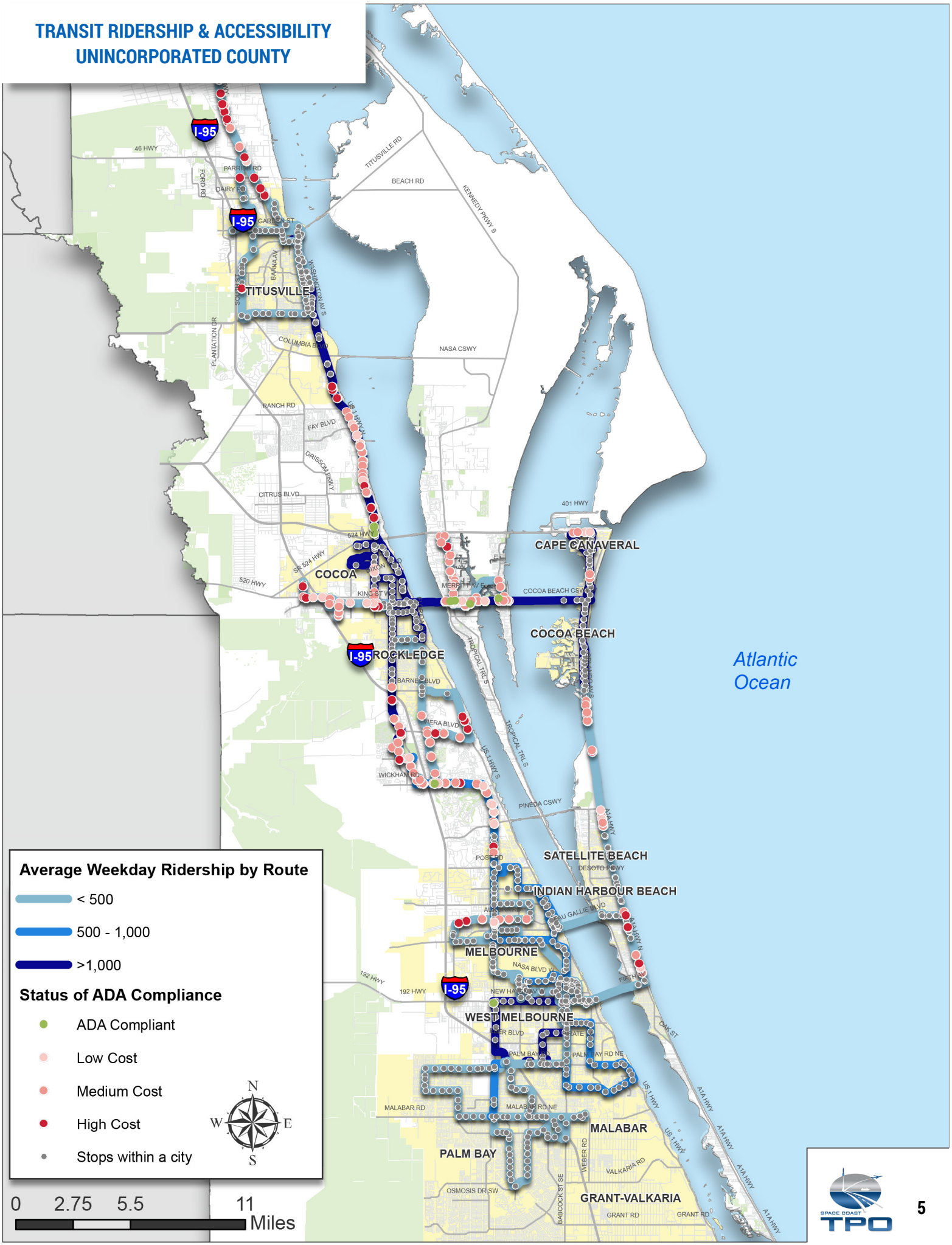
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
UNINCORPORATED COUNTY



Average Weekday Ridership by Route

- < 500
- 500 - 1,000
- >1,000

Status of ADA Compliance

- ADA Compliant
- Low Cost
- Medium Cost
- High Cost
- Stops within a city

N W E S

0 2.75 5.5 11 Miles

SPACE COAST TPO

Space Coast Area Transit

CAPE CANAVERAL

POPULATION
10,116

WORKERS
3,949

OLDER ADULTS
37.2%

YOUTH (AGES 10–14)
1.9%

PERSONS WITH DISABILITIES
17.7%

LOW-INCOME HOUSEHOLDS (<$25,000)
27.6%

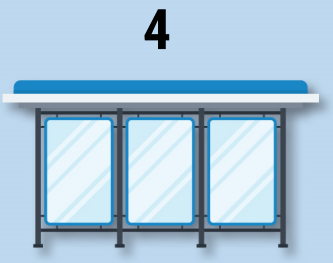
ZERO-VEHICLE HOUSEHOLDS
8.6%

Source:
2012–2016 American Community Survey

AMENITIES

STOPS

BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

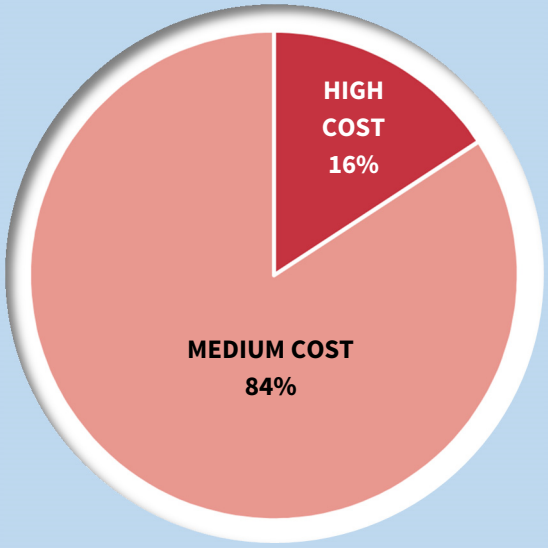
 # OF NON-COMPLIANT STOPS

19 (100%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$160,000

COST TO ACHIEVE ADA COMPLIANCE



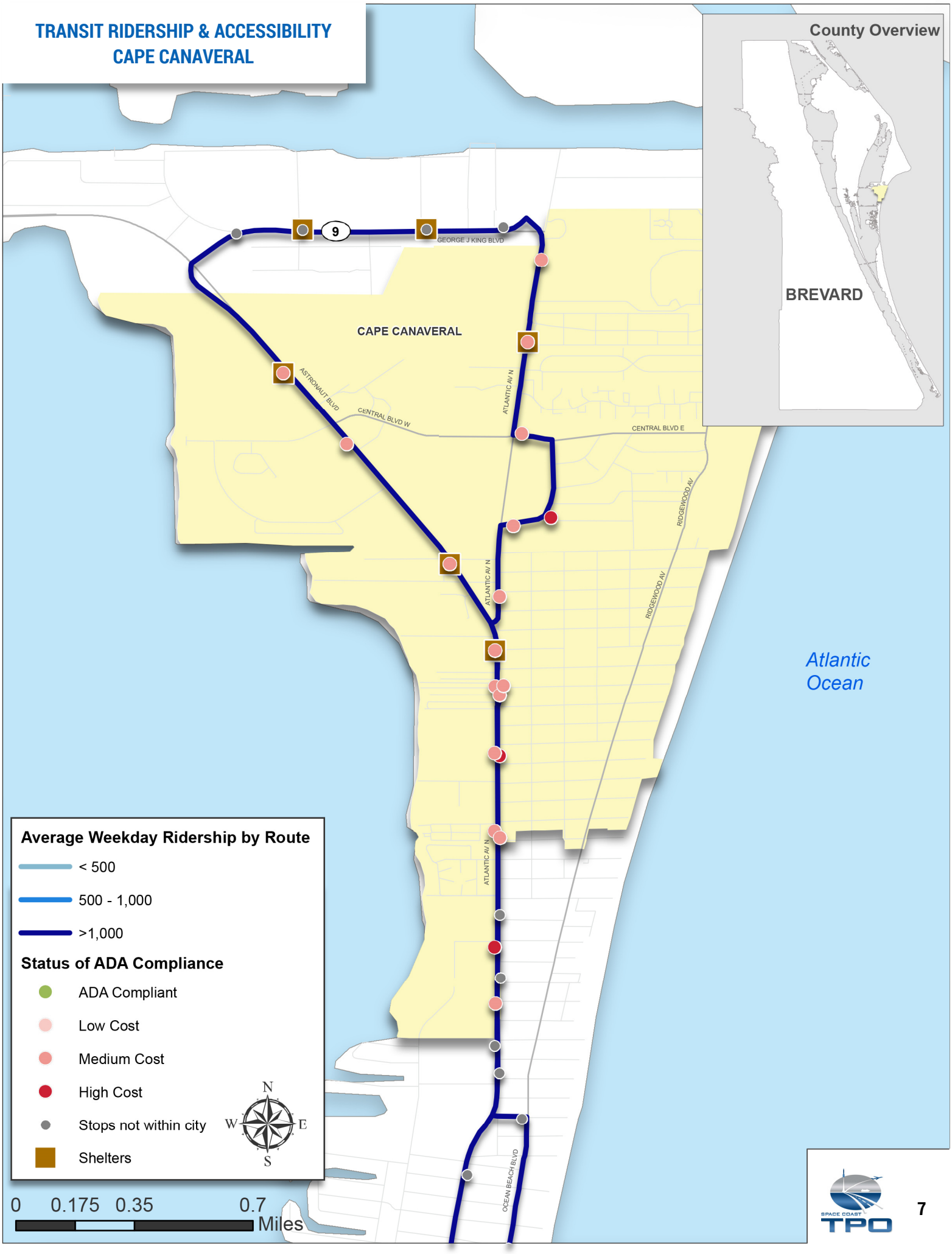
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
CAPE CANAVERAL



Space Coast Area Transit

COCOA

POPULATION
17,558

WORKERS
6,958

OLDER ADULTS
21.9%

YOUTH (AGES 10–14)
7.8%

PERSONS WITH DISABILITIES
17.6%

LOW-INCOME HOUSEHOLDS (<$25,000)
37.9%

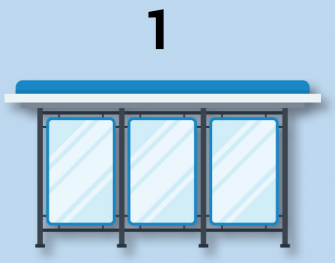
ZERO-VEHICLE HOUSEHOLDS
7.9%

Source:
2012–2016 American Community Survey

AMENITIES

STOPS

BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

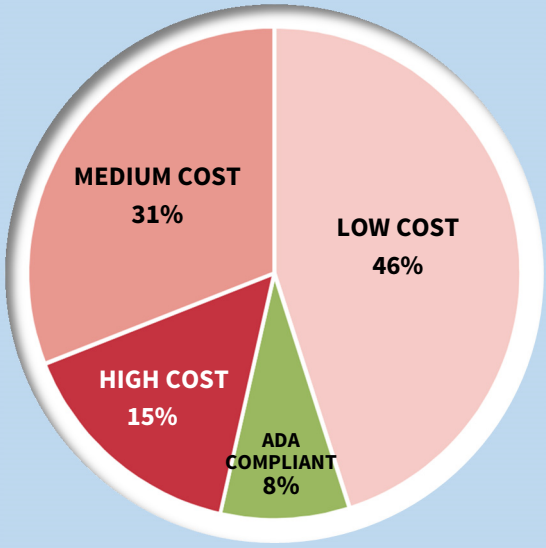
 # OF NON-COMPLIANT STOPS

65
(92%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$370,000

COST TO ACHIEVE ADA COMPLIANCE



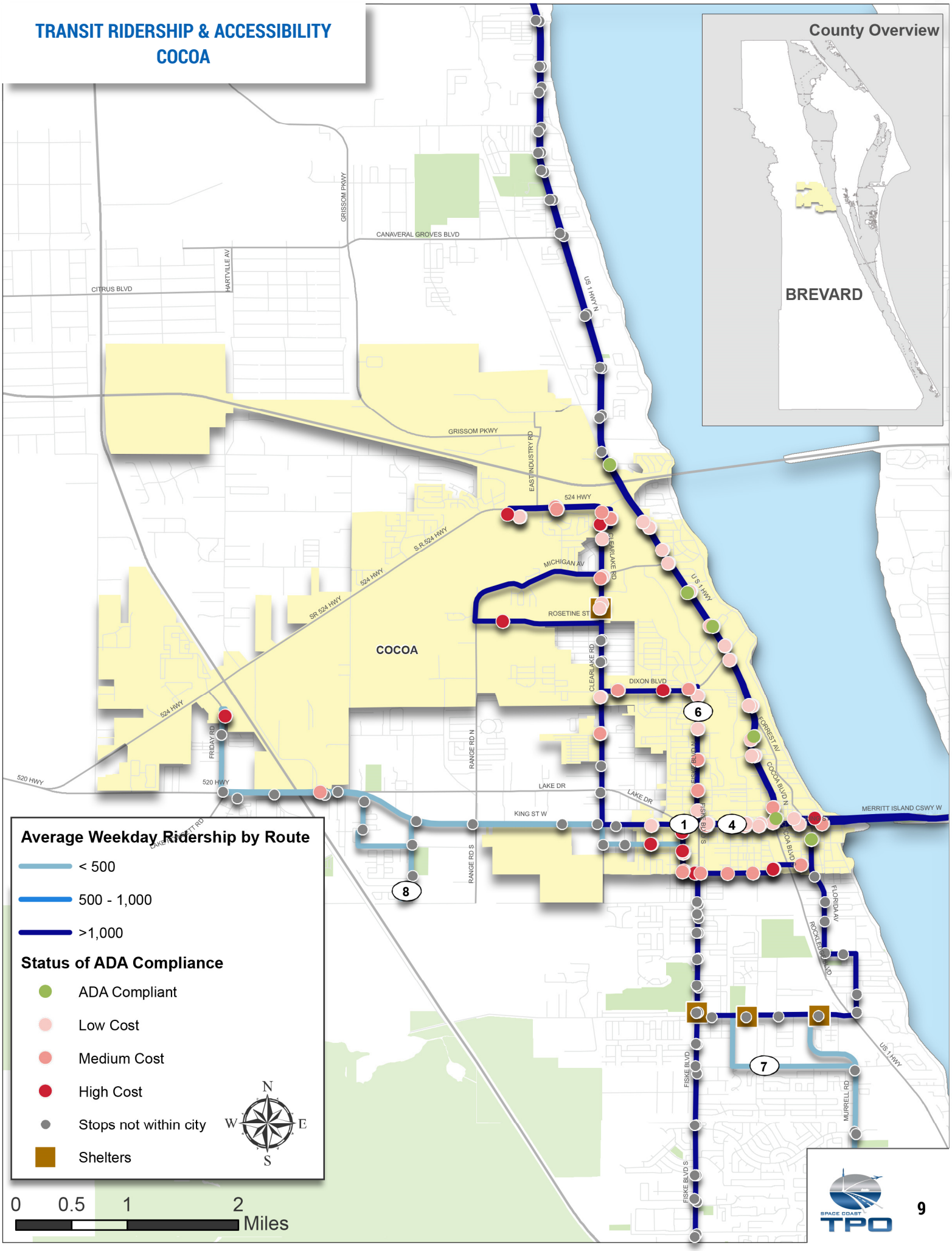
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
COCOA



Space Coast Area Transit

COCOA BEACH

POPULATION
11,466

WORKERS
4,844

OLDER ADULTS
33.1%

YOUTH (AGES 10–14)
3.3%

PERSONS WITH DISABILITIES
16.3%

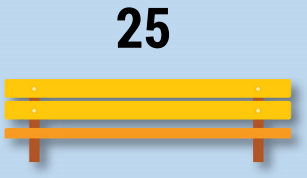
LOW-INCOME HOUSEHOLDS (<$25,000)
20.0%

ZERO-VEHICLE HOUSEHOLDS
3.7%

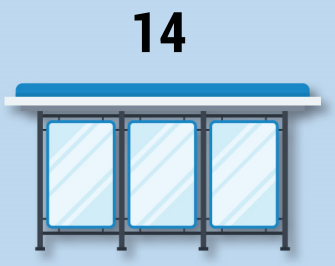
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

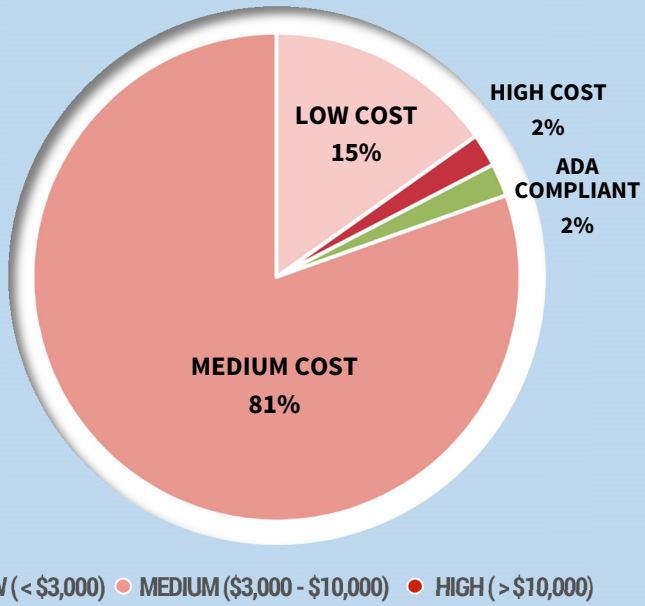
 # OF NON-COMPLIANT STOPS

45 (98%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$290,000

COST TO ACHIEVE ADA COMPLIANCE



BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
COCOA BEACH

Space Coast Area Transit

INDIALANTIC

POPULATION
2,798

WORKERS
1,345

OLDER ADULTS
19.3%

YOUTH (AGES 10–14)
5.7%

PERSONS WITH DISABILITIES
18.1%

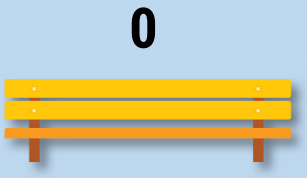
LOW-INCOME HOUSEHOLDS (<$25,000)
21.2%

ZERO-VEHICLE HOUSEHOLDS
1.5%

Source:
2012–2016 American Community Survey

AMENITIES

STOPS



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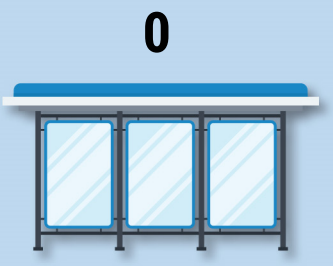


SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

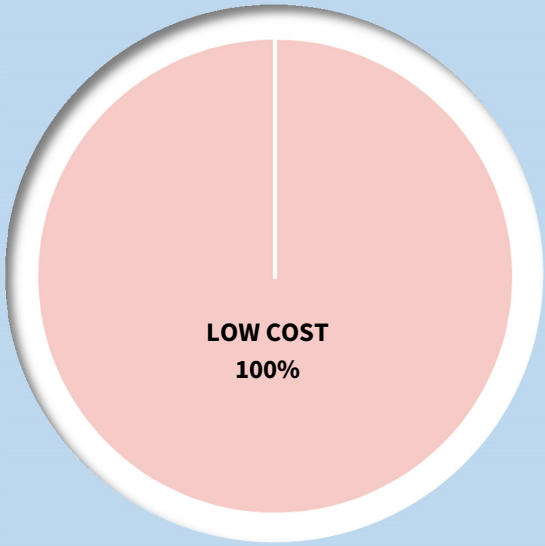
 # OF NON-COMPLIANT STOPS

5
(100%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$10,000

COST TO ACHIEVE ADA COMPLIANCE



BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
INDIALANTIC

Space Coast Area Transit

INDIAN HARBOUR BEACH

POPULATION
8,381

WORKERS
3,464

OLDER ADULTS
26.0%

YOUTH (AGES 10–14)
7.5%

PERSONS WITH DISABILITIES
13.8%

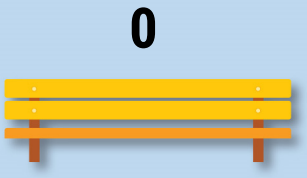
LOW-INCOME HOUSEHOLDS (<$25,000)
21.8%

ZERO-VEHICLE HOUSEHOLDS
2.9%

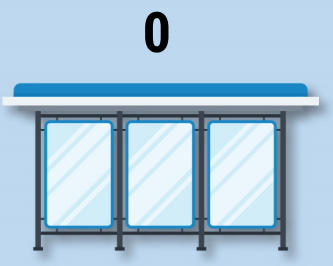
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

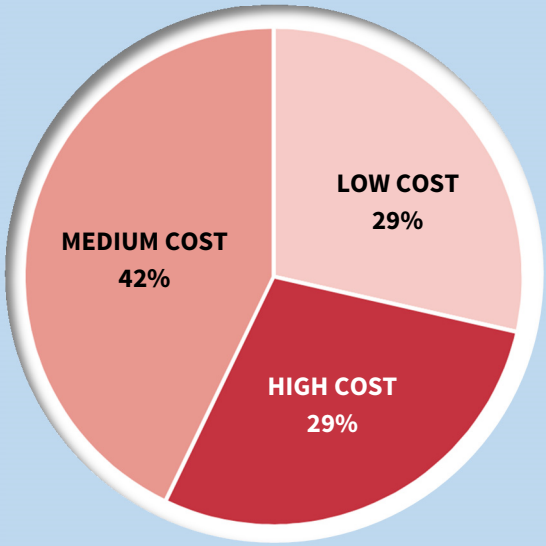
 # OF NON-COMPLIANT STOPS

7
(100%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$60,000

COST TO ACHIEVE ADA COMPLIANCE



BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
INDIAN HARBOUR BEACH

MALABAR

POPULATION
2,886

WORKERS
1,456

OLDER ADULTS
21.2%

YOUTH (AGES 10–14)
2.0%

PERSONS WITH DISABILITIES
9.7%

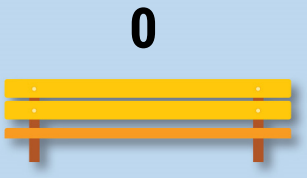
LOW-INCOME HOUSEHOLDS (<$25,000)
13.6%

ZERO-VEHICLE HOUSEHOLDS
1.4%

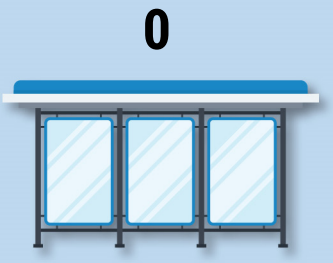
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

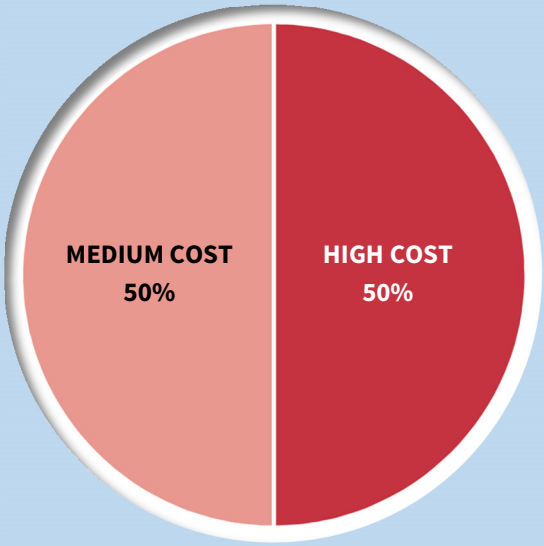
 # OF NON-COMPLIANT STOPS

2
(100%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$40,000

COST TO ACHIEVE ADA COMPLIANCE



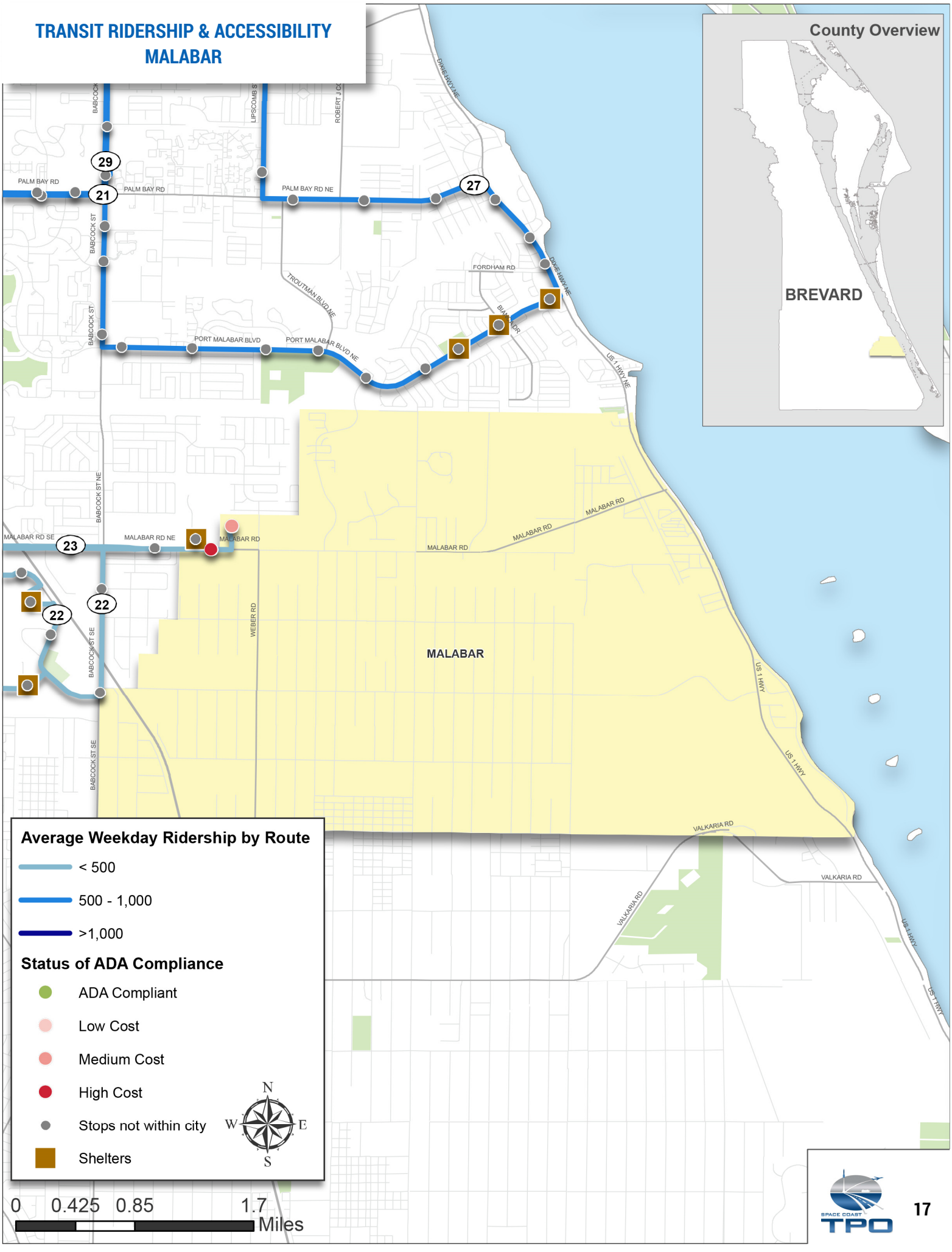
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
MALABAR



Space Coast Area Transit

MELBOURNE

POPULATION
78,911

WORKERS
34,611

OLDER ADULTS
21.8%

YOUTH
(AGES 10–14)
4.4%

PERSONS WITH DISABILITIES
14.8%

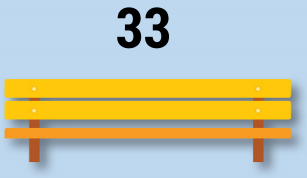
LOW-INCOME HOUSEHOLDS
(<$25,000)
30.2%

ZERO-VEHICLE HOUSEHOLDS
2.7%

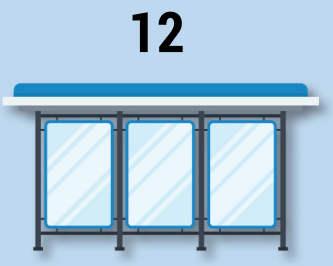
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

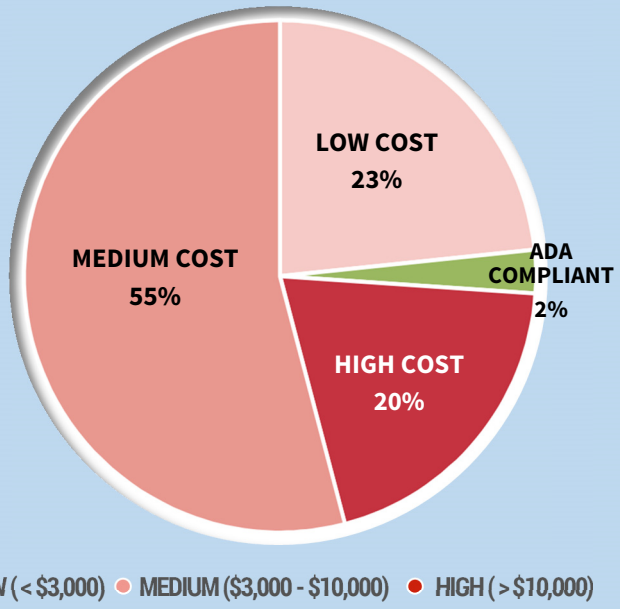
 # OF NON-COMPLIANT STOPS

246
(98%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$2,050,000

COST TO ACHIEVE ADA COMPLIANCE



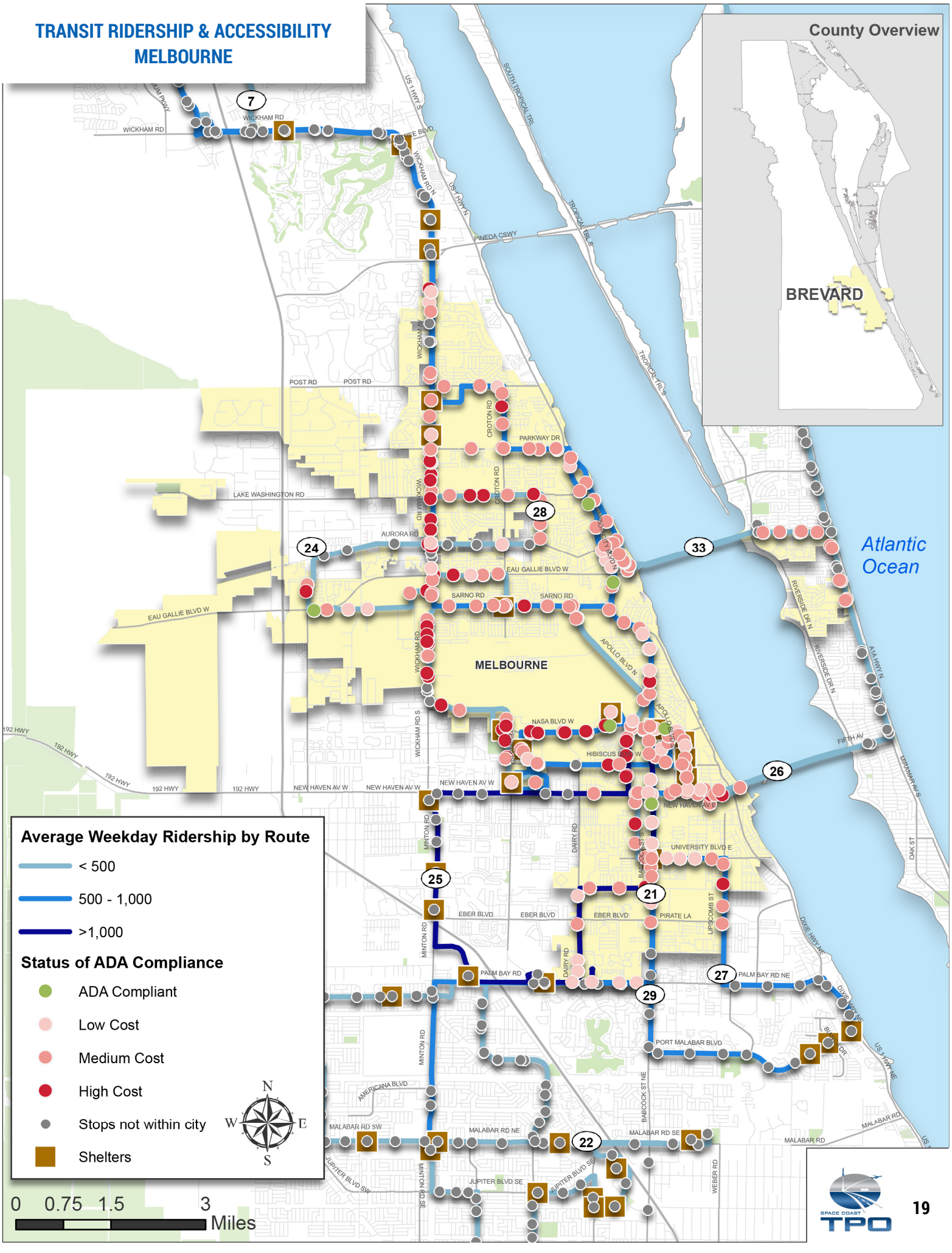
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
MELBOURNE



Space Coast Area Transit

PALM BAY

POPULATION
106,573

WORKERS
44,144

OLDER ADULTS
17.5%

YOUTH (AGES 10–14)
6.2%

PERSONS WITH DISABILITIES
13.5%

LOW-INCOME HOUSEHOLDS (<$25,000)
26.5%

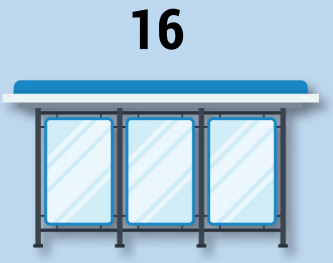
ZERO-VEHICLE HOUSEHOLDS
1.7%

Source:
2012–2016 American Community Survey

AMENITIES

STOPS

BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

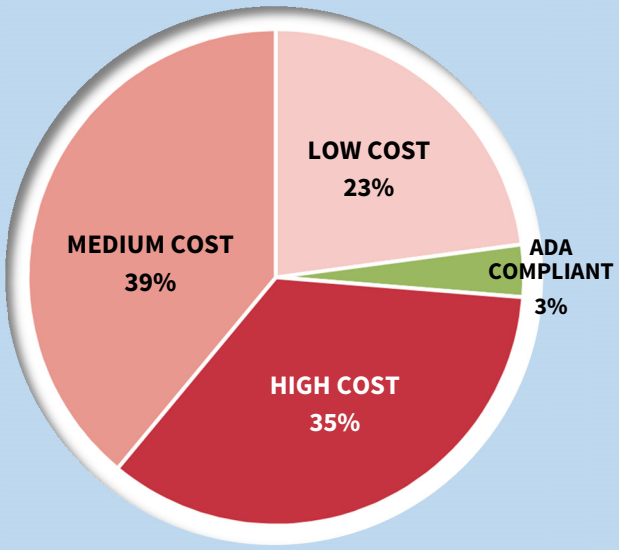
 # OF NON-COMPLIANT STOPS

113
(97%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$1,190,000

COST TO ACHIEVE ADA COMPLIANCE



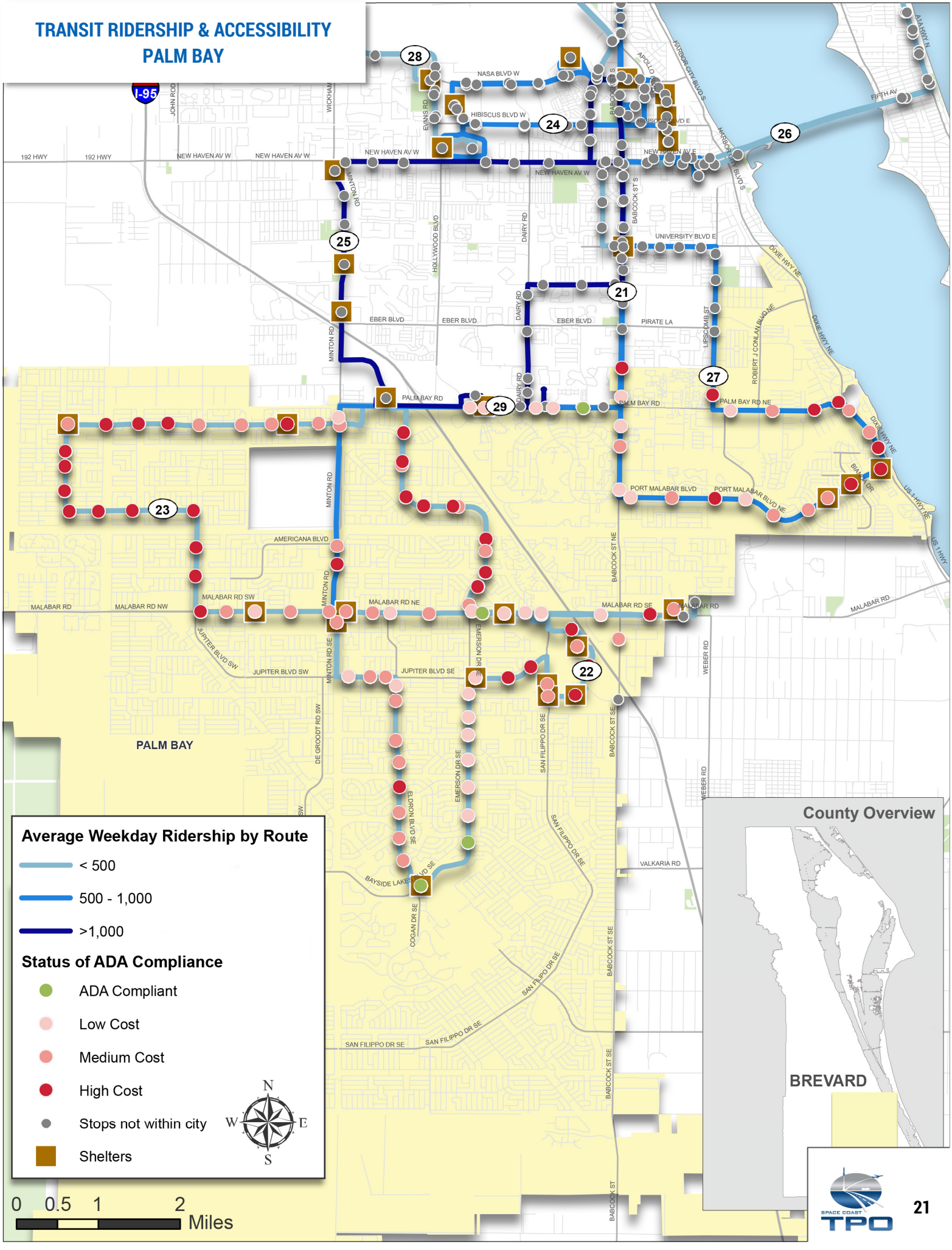
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
PALM BAY



Space Coast Area Transit

ROCKLEDGE

POPULATION
26,144

WORKERS
11,678

OLDER ADULTS
21.3%

YOUTH (AGES 10–14)
5.4%

PERSONS WITH DISABILITIES
15.3%

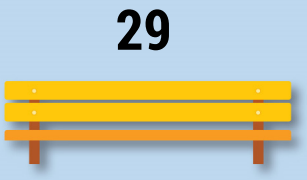
LOW-INCOME HOUSEHOLDS (<$25,000)
19.6%

ZERO-VEHICLE HOUSEHOLDS
1.4%

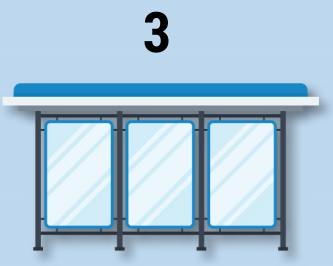
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

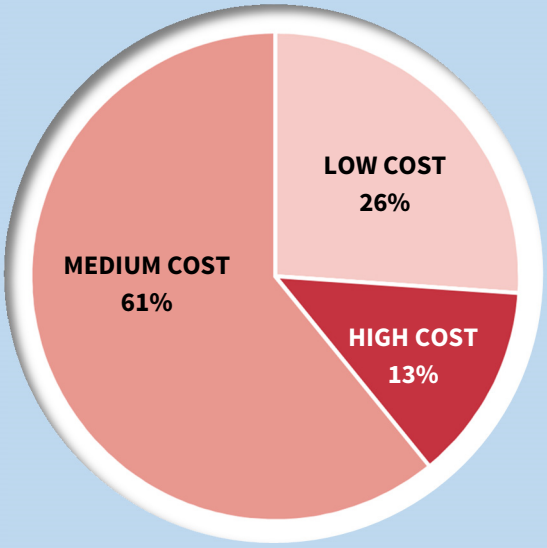
 # OF NON-COMPLIANT STOPS

46
(100%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$280,000

COST TO ACHIEVE ADA COMPLIANCE



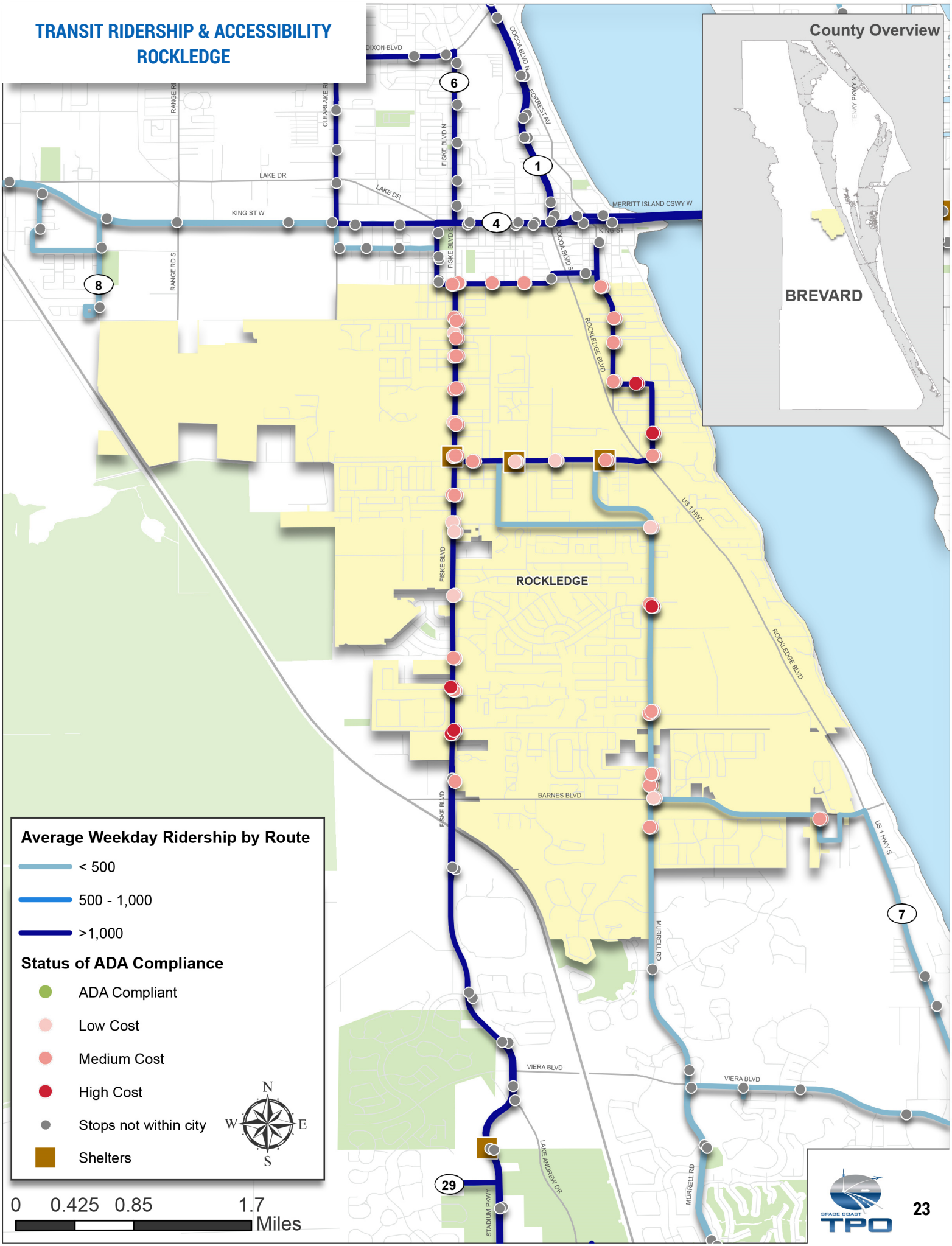
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
ROCKLEDGE



Space Coast Area Transit

SATELLITE BEACH

POPULATION
10,495

WORKERS
4,494

OLDER ADULTS
21.1%

YOUTH (AGES 10–14)
7.1%

PERSONS WITH DISABILITIES
10.3%

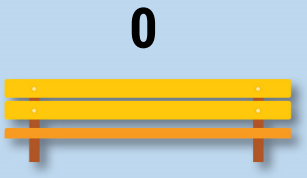
LOW-INCOME HOUSEHOLDS (<$25,000)
10.8%

ZERO-VEHICLE HOUSEHOLDS
1.0%

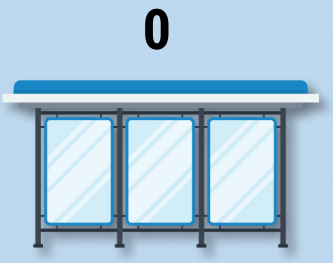
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

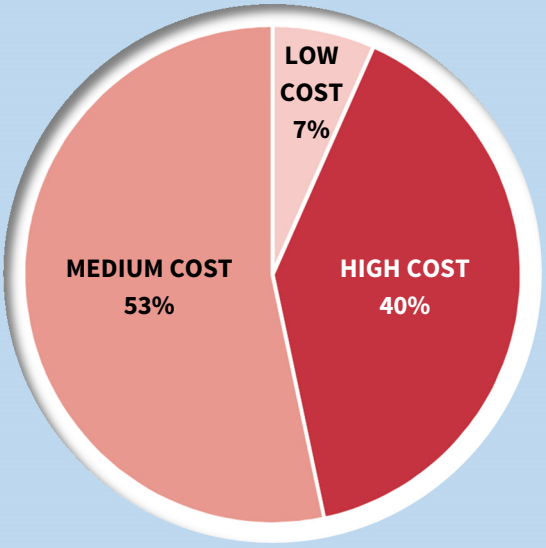
 # OF NON-COMPLIANT STOPS

14
(100%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$150,000

COST TO ACHIEVE ADA COMPLIANCE



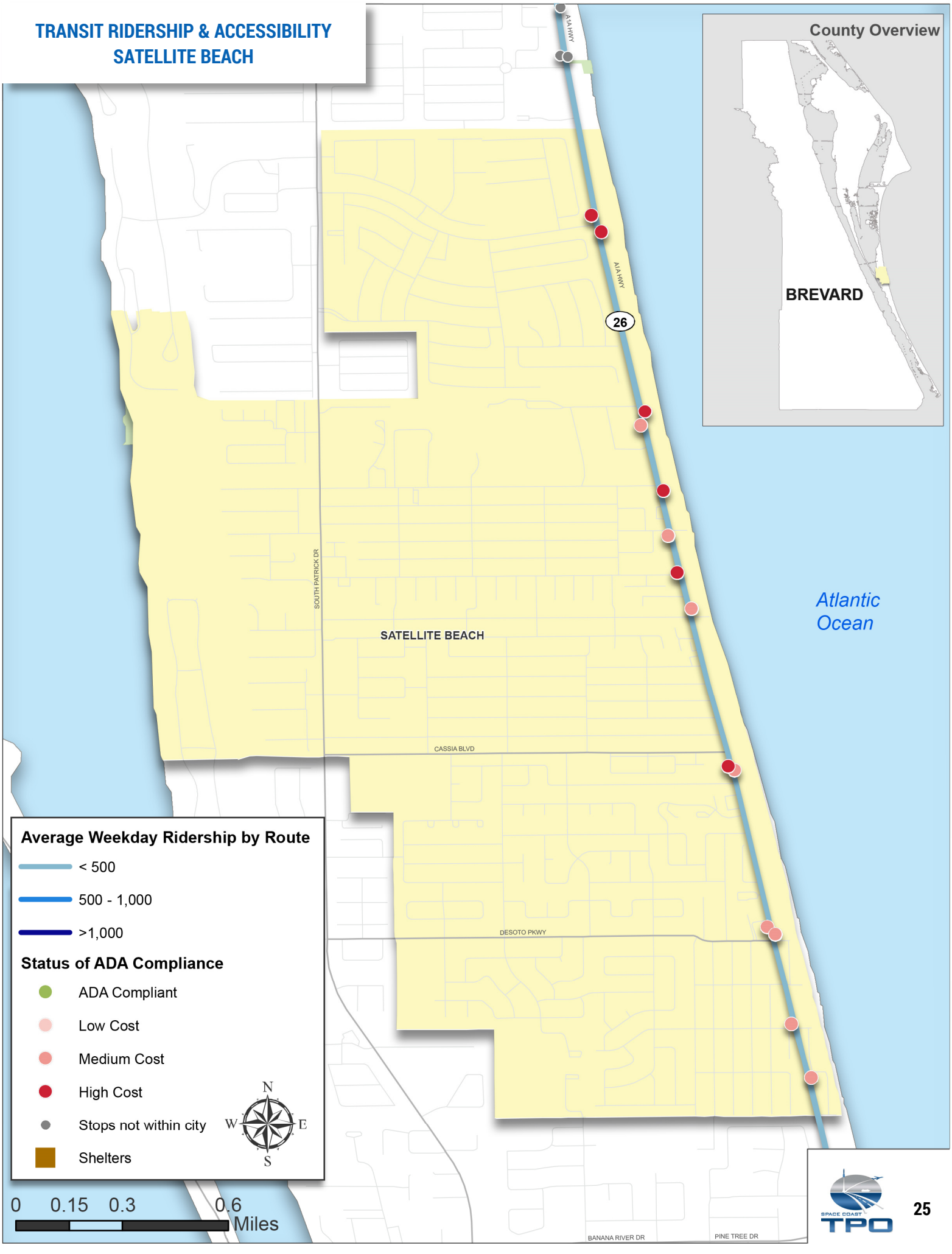
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
SATELLITE BEACH



Space Coast Area Transit

TITUSVILLE

POPULATION
44,746

WORKERS
18,209

OLDER ADULTS
23.2%

YOUTH (AGES 10–14)
4.6%

PERSONS WITH DISABILITIES
18.3%

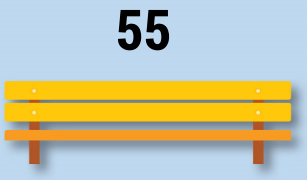
LOW-INCOME HOUSEHOLDS (<$25,000)
28.5%

ZERO-VEHICLE HOUSEHOLDS
2.9%

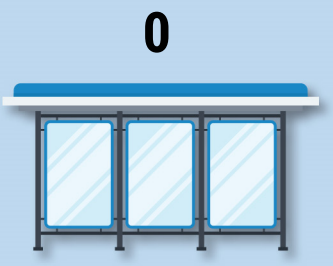
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

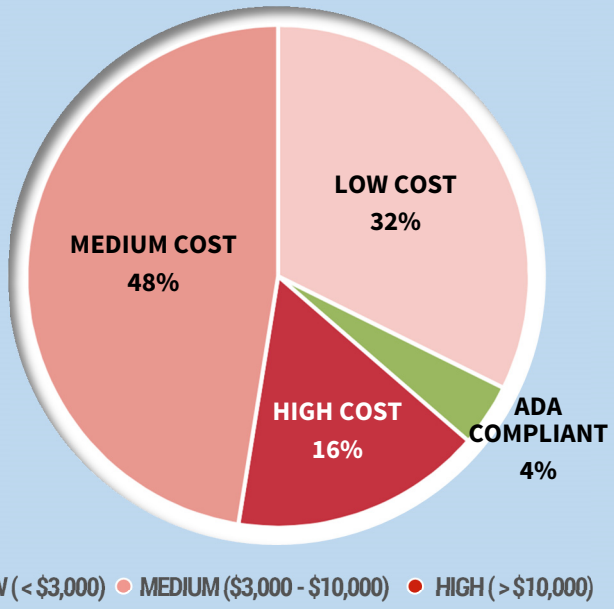
 # OF NON-COMPLIANT STOPS

95
(96%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$690,000

COST TO ACHIEVE ADA COMPLIANCE



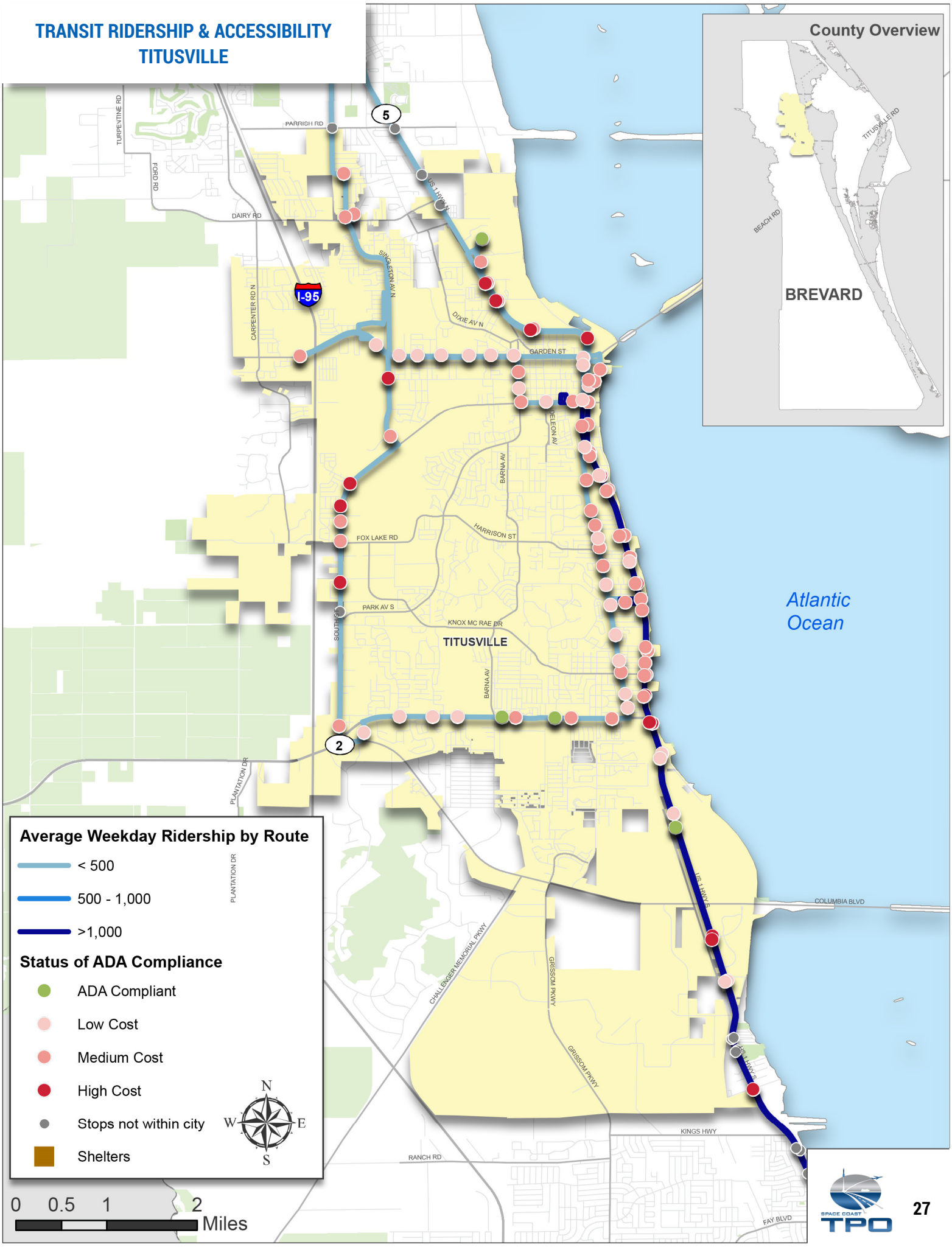
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
TITUSVILLE



Space Coast Area Transit

WEST MELBOURNE

POPULATION
20,207

WORKERS
8,728

OLDER ADULTS
18.4%

YOUTH (AGES 10–14)
6.1%

PERSONS WITH DISABILITIES
10.8%

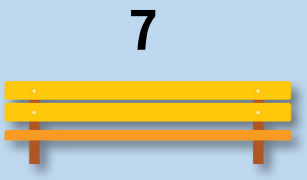
LOW-INCOME HOUSEHOLDS (<$25,000)
16.9%

ZERO-VEHICLE HOUSEHOLDS
1.9%

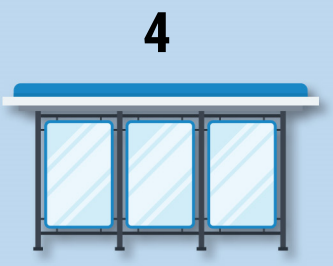
Source:
2012–2016 American Community Survey

AMENITIES

STOPS



BENCHES



SHELTERS

BUS STOP ACCESSIBILITY / ADA COMPLIANCE

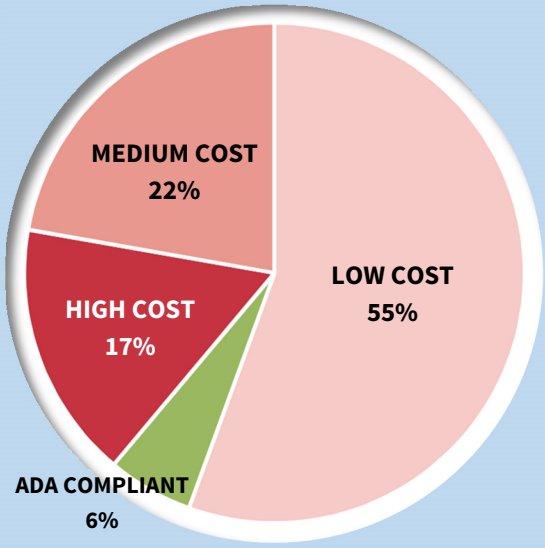
 # OF NON-COMPLIANT STOPS

17
(94%)

ESTIMATED TOTAL COST TO ACHIEVE COMPLIANCE

$130,000

COST TO ACHIEVE ADA COMPLIANCE



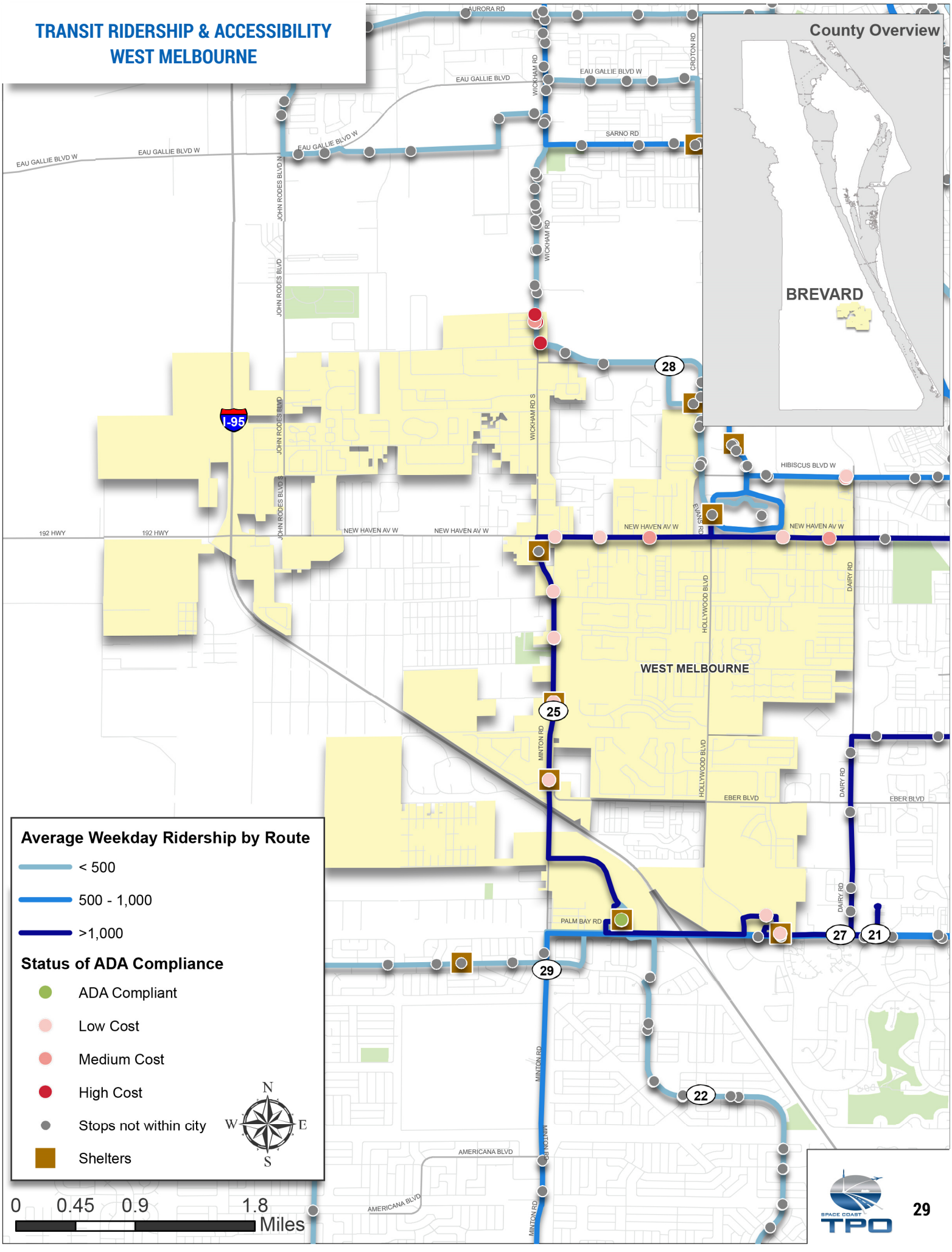
BUS STOP RIDERSHIP (ONs & OFFs)

WEEKDAY

SATURDAY

SUNDAY

TRANSIT RIDERSHIP & ACCESSIBILITY
WEST MELBOURNE



SPACE COAST TPO

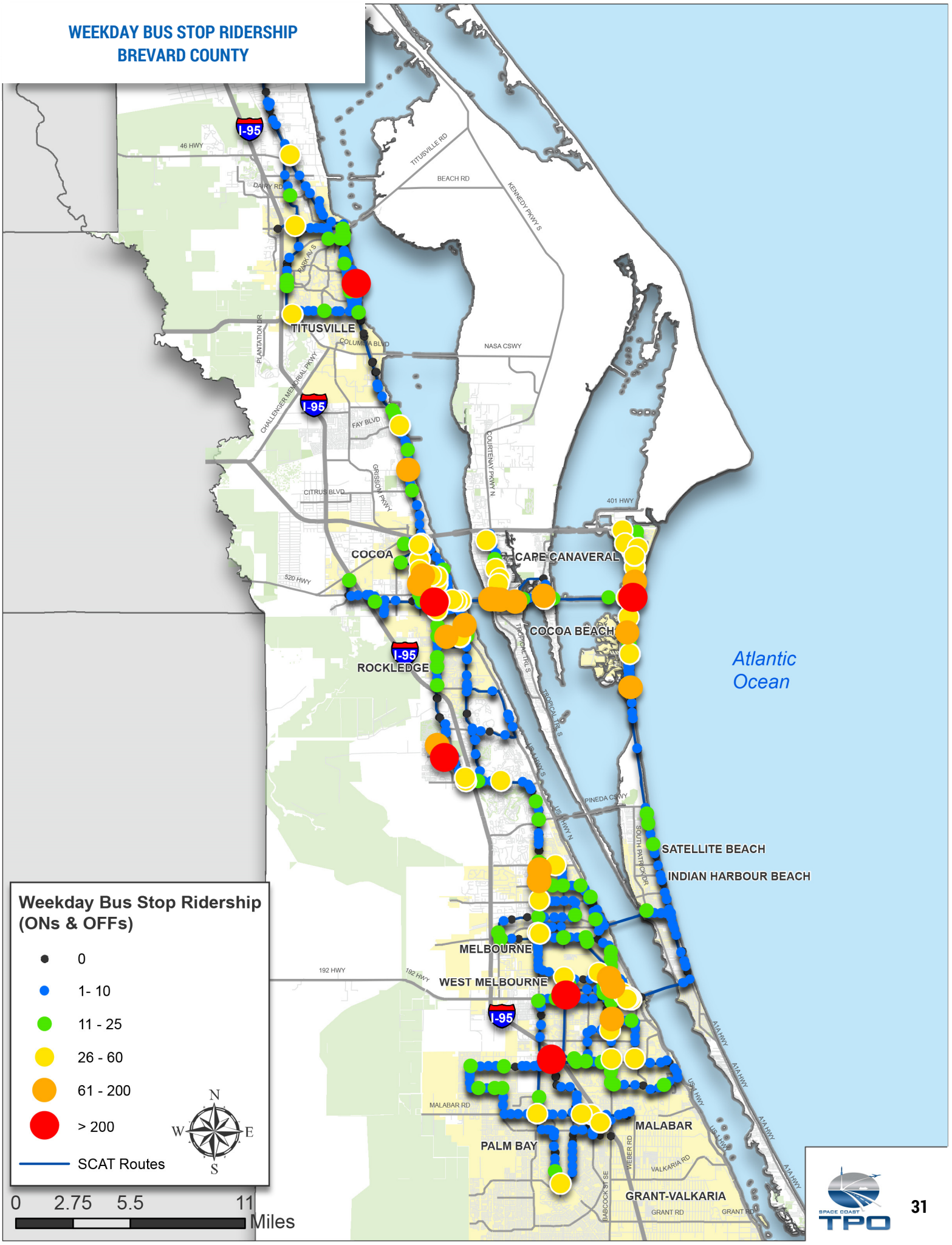
BUS STOP RIDERSHIP

A key component in prioritizing bus stop improvements is understanding the level of passenger activity at each bus stop.

This information was collected through a manual count of boardings and alightings (i.e., “ons” and “offs”) at each bus stop, also known as a ride check. The ride check was completed during the week of April 21–26, 2018, and passenger counts at each bus stop were collected using both a computer tablet and paper back-up counts for quality control. The ride check covered 100% of the fixed-route runs for each route for a weekday, Saturday, and Sunday of service.

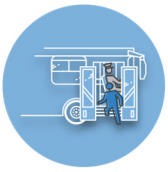
The map to the right illustrates the weekday bus stop activity collected during the ride check performed for the Space Coast TPO and SCAT.

WEEKDAY BUS STOP RIDERSHIP
BREVARD COUNTY



BUS STOP CHECKLIST

FOR ADA COMPLIANCE



Boarding and Alighting Area

- Must be firm, stable, and slip resistant.
- Must be level and not have a slope exceeding 2% perpendicular to the road.
- Must be a minimum of 5'parallel to the road and 8' perpendicular to the road.
- Must connect from the boarding and alighting area to the adjacent accessible route.
- Should be located behind a 6" raised curb.

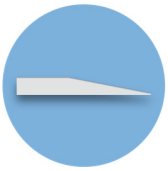
Accessible Route (Sidewalk/Shoulder of Road)

- Must connect to the boarding and alighting area.
- Must be firm, stable, and slip resistant.
- Must be a minimum of 36" in width.

Bus Stop Sign

- Must be present at the bus stop.
- Must display route numbers if served by more than one route.
- Must be an appropriate height from the ground, based on its text size.

Curb Ramps



- Must have a maximum running slope of 8.3%.
- Must have a level landing located at the top of the curb ramp.
- Must have detectable warnings installed at the base of the curb ramp, extending the full width of the ramp, be high contrast, and 24" in depth.

Shelter

- If a shelter exists, there must be a connection from the shelter to the boarding and alighting area and the adjacent accessible route.
- If a shelter exists, there must be a clear floor space with a minimum dimension of 30" x 48" fully within the shelter.

Miscellaneous

- Must not have anything obstructing or blocking the boarding and alighting area or accessible route to the stop.
- Must not have any tripping hazards greater than ¼" or ½" if beveled within the boarding and alighting area or along the accessible route to the stop.
- Must have pedestrian push buttons, if they exist, within reach from a level, firm, stable, and slip resistant surface, with minimum dimensions of 30"x48".
- Must have amenities, if they exist, adjacent to or within reach from a level, firm, stable, and slip resistant surface, with minimum dimensions of 30"x48".

FOR ADDITIONAL INFORMATION, PLEASE CONTACT:

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