

Complete Streets for Orleans

Prioritization Plan Development



CAPE COD
COMMISSION

November 5, 2020 Zoom Virtual Meeting

Traffic & Parking Committee Ice Breaker

- What do you think of these proposed goals for the implementation of Complete Streets projects in Orleans?
 - Improve Access (for pedestrians, bicyclists, vehicles)
 - Improve Safety
 - Support to local economy
 - Improve Equity (e.g., improves access to affordable housing)
 - Promote public acceptance of shared use roadways
- Submit your feedback in the chat.

THANK YOU FOR JOINING THIS VIRTUAL MEETING

- If anyone is having technical issues, use either the chat box on your screen or call (508) 744 - 1261 and staff will assist you.
- Participants wishing to speak should click “Participants” icon on the lower toolbar and then click “Raise Hand” in the dialog box to notify the presenters. Telephone participants should press *9 to indicate that they wish to speak. To mute or unmute your phone press *6.
- This meeting is being recorded and will be available on the Cape Cod Commission website.

Tonight's Agenda

- What are Complete Streets?
- What is a Prioritization Plan?
- Overview of December 2019 Public Meeting
- Project Development
- Project Evaluation/Rankings
- **Group Activity to Discuss Preliminary Rankings**
- Next Steps

What is a Complete Street?

Complete Streets Defined:

A Complete Street is one that provides safe and accessible options for all travel modes – walking, biking, transit and vehicles – for people of all ages and abilities. Complete Streets improvements may be large scale, such as corridor-wide improvements, or focused on the needs of a single mode.



Benefits of Complete Streets

- Safety
- Health benefits
- People with disabilities
- Children and aging population
- Environmental benefits



PRIORITIZATION PLAN

- Up to \$400,000 per town for Complete Streets Prioritization Plan Construction Projects
- State Highways (e.g. Route 6, Route 6A and Route 28) are not eligible for Complete Streets Funding Program



PRIORITIZATION PLAN TEMPLATE

Complete Streets Funding Program Project Prioritization Plan																					
Municipality		Eastham		Date		2/13/2018															
MassDOT District		5		Name/Title		Neil Andres, Superintendent of Public Works															
Project Details			EJ	Complete Streets Location			Project Origin and Type		Complete Streets Needs				Complete Streets Funding Request			Construction Schedule					
Rank	Project Name	Project Description	Environmental Justice Population	Project Limits	Project Start Location: X,Y Coordinates (MA State Plane meter)	Project End Location: X,Y Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (refer to the Eligible Projects Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Transit Operations and Access	Vehicular Operations	Freight Operations	Will this project be in Coordination with other Communities? (list, if applicable)	Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)

- Rank
- Project Name & Description
- Environmental Justice Population
- Project Limits
- Project Start & End Locations
- Complete Streets Project Origin
- Complete Streets Project Type
- Complete Streets Needs
- Will this project be coordinated with other communities?
- Total estimated project cost
- Complete Streets funding request
- Other funding sources and amount
- Anticipated construction duration
- Desired construction start date

COMPLETE STREETS PROJECT TYPES

- Traffic Flow and Safety
- Bicycle Facilities
- Pedestrian Facilities
- Transit Facilities



Setucket Road path in Dennis.



Bicycle lane with pavement markings on George Ryder Road in Chatham.



Sidewalk with grass buffer along Route 28 in Chatham.

COMPLETE STREETS NEEDS

- Safety
- ADA Accessibility
- Pedestrian Mobility
- Transit Operations and Access
- Freight Operations

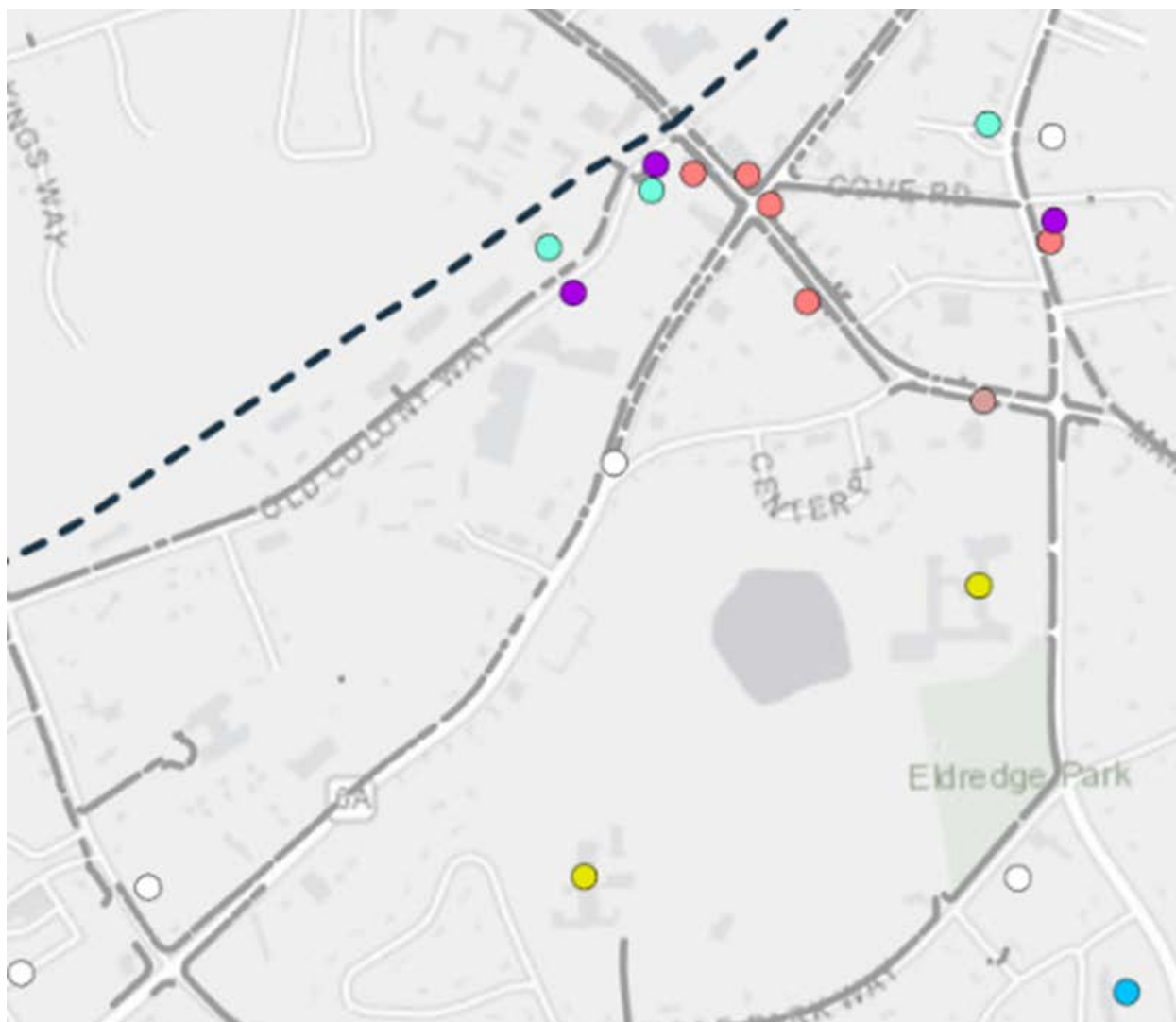


Detectable warning strip at pedestrian crossing at Crowell Road in Chatham.



Tighter corner radii on Route 6A in Orleans shorten crossing distances.

SIDEWALKS & DESTINATIONS



Sidewalks and Destinations

- Town Boundary
- - - Cape Cod Rail Trail
- █ Existing Sidewalk

Activity Sites

- Arts & Culture
- Library
- Recreation
- School
- Senior Center
- Accommodation and Food Services
- Gallery
- Retail Trade



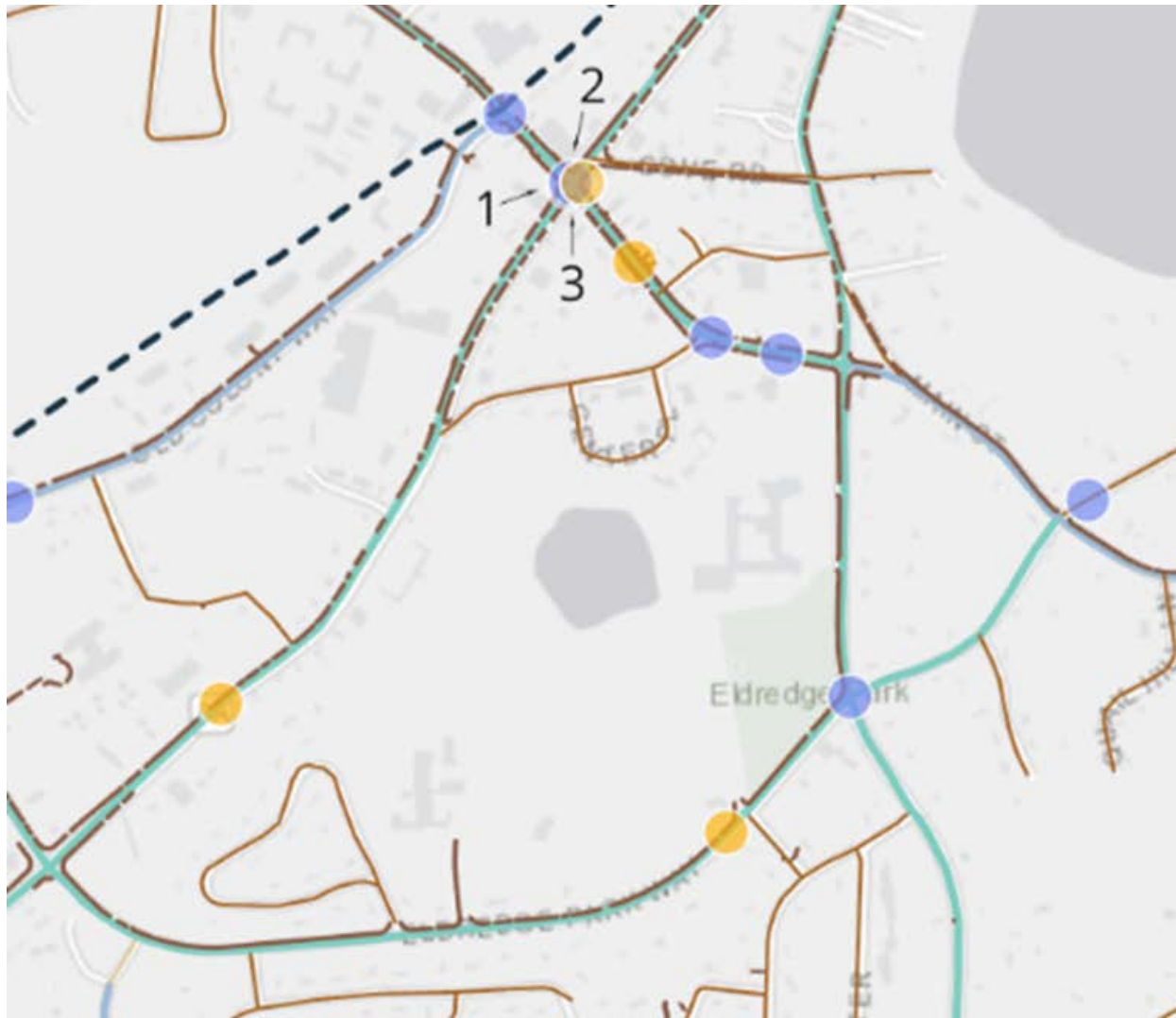
ROADWAY CLASSIFICATION



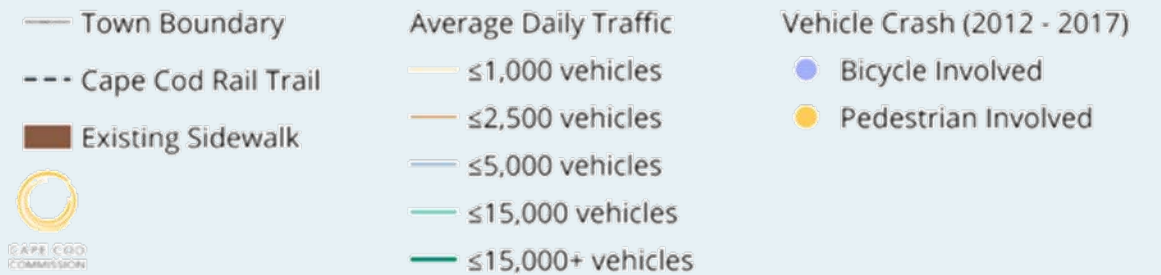
Road Classification

- Town Boundary
 - - - Cape Cod Rail Trail
 - Environmental Justice Area
 -  CAPE COD COMMISSION
- Road Classification
- Urban / Rural Principal Artery
 - Urban Principal / Rural Minor Arterial
 - Urban Minor Arterial / Rural Major Collector
 - Urban Collector / Rural Minor Collector
 - Local

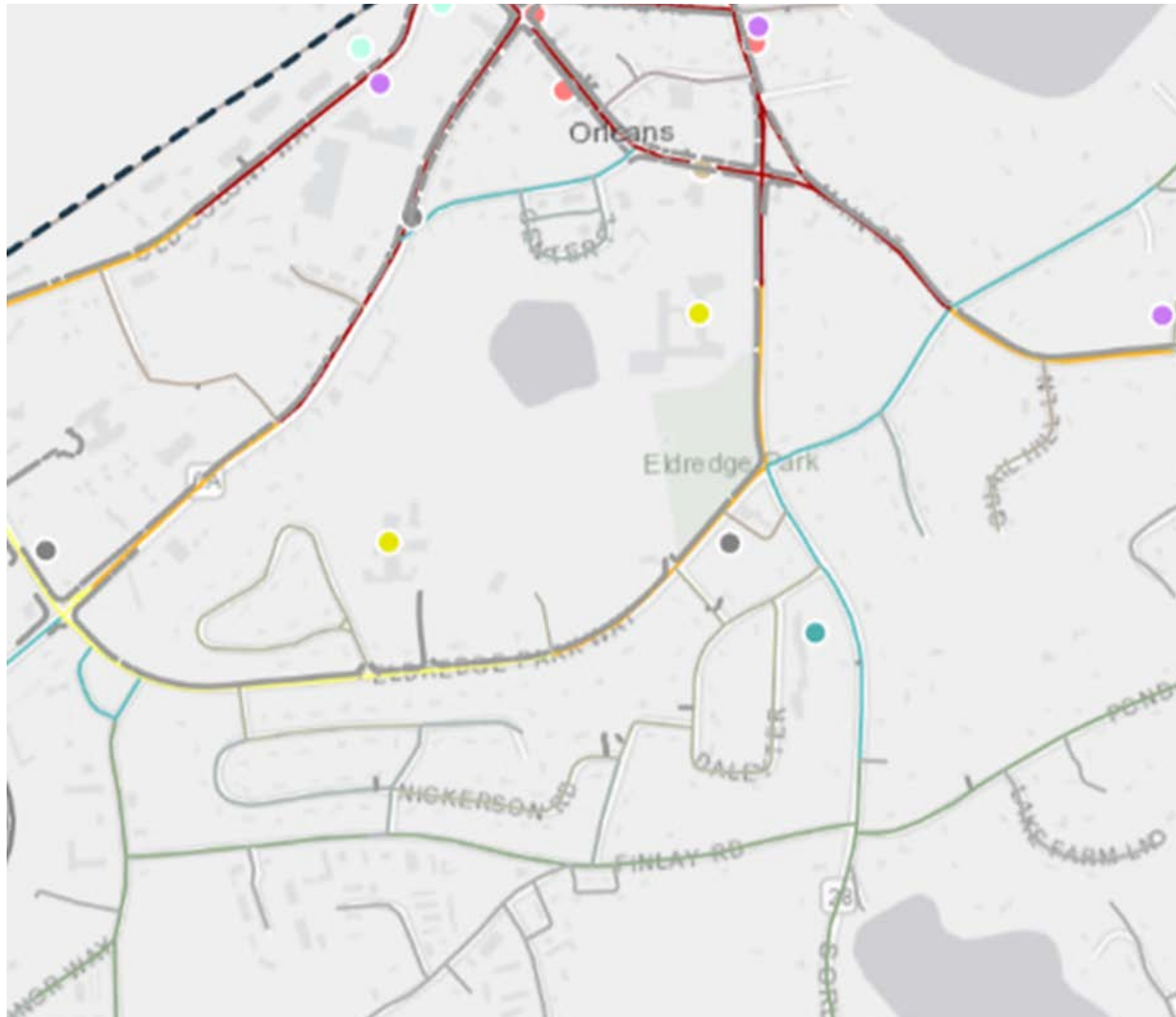
TRAFFIC VOLUMES & CRASHES



Traffic Volume and Crashes



WALKING DEMAND ANALYSIS



Roads that do not currently accommodate pedestrians but are near activities are shown using the following priority color scale:

Walking Demand Score

— ≤20 Lowest

— ≤40 Low

— ≤60 Medium

— ≤80 High

— ≤100 Highest

— Other

DECEMBER WORKSHOP

- Definition of a Complete Street
- Benefits of Complete Streets
- Funding Available for Complete Streets
- Prioritization Plan Template
- Complete Streets Project Types
- Complete Streets Needs
- Context Sensitivity
- Existing Conditions



DECEMBER WORKSHOP

- 4 worktables with a facilitator and 7-8 attendees
- Maps of town roads annotated with markers and post-it notes
- Identification of problem areas and potential projects



COMPLETE STREETS PROJECT SUGGESTION MAP

- Developed from suggestions from the workshop, recommendations from past studies, and local knowledge
- Reviewed with town staff and representatives of the Select Board and Bicycle and Pedestrian Committee



- Bicycle Infrastructure
- Crosswalk Improvement/Signage
- Intersection Improvement
- Multi-use Path
- One-way Traffic
- ⋯ Traffic Calming
- Sidewalk Construction
- Sidewalk Reconstruction
- Existing Sidewalk
- ▨ Project Area
- Orleans Conservation Trust Land
- - - Cape Cod Rail Trail
- Town Boundary

EVALUATION CRITERIA

Stage 1: (available scores up to maximum of 10-25 points)

[1a] Improvement in pedestrian safety (e.g., near reported crashes)

[1b] Improvement in pedestrian mobility (e.g., sidewalks on both sides of road)

[1c] Improvement in bicycling safety (e.g., near reported crashes)

[1d] Improvement in bicycling mobility (e.g., provision of fully separated facilities on both sides of the road)

[1e] Improvement in network connectivity (e.g., connections to existing paths & adjacent towns)

Stage 1 Score = sum of above scores x project length

EVALUATION CRITERIA

Stage 2: (available scores up to maximum of 10 points)

[2a] Access to Environmental Justice areas: (e.g., within 1/2 mile)

[2b] Public/Stakeholder support: (e.g., support from stakeholders and many comments from public)

[2c] Compatibility with community goals: (e.g., projects identified in local plans)

[2d] Environmental impacts: (projects impacting multiple environmental resource areas can receive negative score)

Stage 2 Score = sum of above scores

CRITERIA SCORING

Total Benefit Scoring (assumes equal weighting of Stage 1 and Stage 2 scores)

Total Benefit Score = Stage 1 Score + Stage 2 Score

Project Cost (\$millions. Based on project type and unit cost, multiplied by project length)

Benefit/Cost Score = Total Benefit Score/Project Cost



Ranking

CRITERIA EVALUATION WORKSHEET

Proj. ID	Project Details		EJ	Complete Streets Location		Project Origin and Type		Complete Streets Needs				Complete Streets Funding Request			Construction Schedule		Length	Project Type for Cost Items					1a Weight 1	1b	1c	1d	1e	2a Weight 1	2b	2c	2d	2e	Page 1 Score	Page 2 Score	Total Benefit Score	Benefit/Cost Score	
	Rank	Project Name		Project Description	Project Limits	Project Start Location: XY Coordinates (MA State Plane meter)	Project End Location: XY Coordinates (MA State Plane meter)	Complete Streets Project Origin (planning documentation or supporting analysis)	Complete Streets Project Type (Refer to the Complete Streets Worksheet)	Safety	ADA Accessibility	Pedestrian Mobility	Bicycle Mobility	Public Transit	Weight of Operations	Will this project be in coordination with other Communities? (Y/N, if applicable)		Total Estimated Project Cost	Complete Streets Funding Requested	Other Funding Source(s) and Amount (if applicable)	Anticipated Construction Duration (number of months)	Desired Construction Start Date (month/year)															S15
p21	1	Rock Harbor Rd	No	Eastham Rotary to Cape Cod Rail Trail, 2 miles	325980.983, 839768.103	325676.135, 839768.103	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		Orleans	\$34,848	\$34,848				0.2	1																
p02	2	Brackett Rd (W)	Yes	Route 6 to Cape Cod Rail Trail, 2 miles	326003.922, 840101.376	326003.922, 840101.376	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$54,761	\$54,761				0.2	1																
p16	3	Nauset Rd (N)	Yes	Route 6 to Cape Cod Rail Trail, 1 mile	325957.727, 847171.535	325957.727, 847171.535	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$70,733	\$70,733				0.1	1	1															
p22	4	Rock Harbor Rd/Bridge Rd	No	Cape Cod Rail Trail to Bayview Road, 9 miles	325676.135, 839768.103	324854.788, 840589.061	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		Orleans	\$156,816	\$156,816				0.9	1																
p19	5	Old County Rd	End	Route 6 to Massanut Road, 1 mile	325428.656, 840127.785	325583.304, 840127.785	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$90,024	\$90,024				0.1	1	1															
p24	1	Samoset Rd (E)	No	Route 6 to Cape Cod Rail Trail, 4 miles	326768.598, 843351.975	326768.598, 843351.975	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$282,933	\$282,933				0.4	1	1															
p07	2	Great Pond Rd	No	Samoset Road to Locust Road, 5 miles	325749.728, 843363.888	325223.022, 843363.888	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X			No	\$177,351	\$177,351				0.5	1																
p13	3	Mill Rd	No	Deport Road to Locust Road, 3 miles	326330.885, 844075.991	326680.025, 84398.824	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X	X		No	\$216,769	\$216,769				0.5	1																
p14	4	Nauset Bike Trail Extension	No	Salt Pond Road to Cape Cod Rail Trail, 7 miles	326629.286, 844178.297	326686.034, 844277.360	CS Needs Assessment	B10, New shared use paths	X	X	X	X		No	\$355,914	\$355,914				0.4		1															
p23	5	Samoset Rd (W)	No	Cape Cod Rail Trail to north side of Samoset Road, with the addition of new paved shoulders along both sides of the roadway	326129.355, 842356.431	326129.355, 842377.690	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$540,134	\$540,134				1.4	1	1															
p30	1	Locust Rd & Salt Pond Rd	No	Route 6/Locust Road to Great Pond Road, 9 miles	325751.167, 844072.896	325751.167, 844072.896	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X			No	\$354,003	\$354,003				0.9	1																
p12	2	McKoy Rd	No	Route 6 to Herring Brook Road, 5 miles	324850.174, 844995.300	325839.970, 845255.543	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X	X		No	\$236,469	\$236,469				0.5	1																
p05	3	Campground Rd	Yes	Massanut Road to beach, 8 miles	324058.529, 840128.351	325307.985, 840128.351	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X	X		No	\$315,291	\$315,291				0.8	1																
p18	4	Ocean View Rd	No	Doane Road to Cable Road, 9 miles	328421.637, 846594.375	328858.072, 845173.969	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X	X		No	\$319,233	\$319,233				0.9	1																
p04	5	Cable Rd	End	Nauset Road to existing sidewalk facilities, 8 miles	326947.137, 846369.387	326947.137, 846369.387	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$462,981	\$462,981				0.8	1	1															
p06	1	Governor Prence Rd	No	Route 6 to Cape Cod Rail Trail, 7 miles	327167.817, 842115.631	327167.817, 842115.631	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X			No	\$248,292	\$248,292				0.7	1																
p09	2	Kingsbury Beach Rd	No	Route 6 to beach, 1.2 miles	324236.805, 844800.100	326125.496, 844800.100	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X			No	\$425,643	\$425,643				1.2	1																
p01	3	Brackett Rd (E)	Yes	From Nauset Road to Cape Cod Rail Trail, 1.5 miles	327096.617, 846101.376	327096.617, 846101.376	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$495,132	\$495,132				0.7	1	1															
p08	4	Herring Brook Rd/Bridge Rd	Yes	Bayview Road to Massanut Road, 4 miles	325241.439, 846200.602	324854.788, 840589.061	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$1,800,480	\$1,800,480				4	1	1															
p17	5	Nauset Rd (S)	End	Route 6 to Nauset Road, crossing across Nauset Road and a Cape Cod Rail Trail, 1.8 miles	327100.936, 846147.529	326652.297, 844387.595	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X	X		No	\$810,216	\$810,216				1.8	1	1															
p25	1	Schoolhouse Rd	No	Nauset Road (S) to Nauset Road, 1.1 miles	327254.060, 844234.902	326781.791, 844234.902	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$707,331	\$707,331				1.1	1	1															
p11	2	Massanut Rd	No	Route 6 to Oak Road, 6 miles	325263.021, 846190.910	325601.019, 845348.942	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$540,144	\$540,144				0.6	1	1															
p20	3	Old Orchard Rd	End	Brackett Road to Route 6, 9 miles	326200.612, 844770.041	326018.224, 844770.041	CS Needs Assessment	S15, Addition of or widening shoulders	X	X	X	X		No	\$636,598	\$636,598				0.9	1	1															
p03	4	Bridge Rd	No	Cape Cod Rail Trail to Herring Brook Road, 8 miles	325518.457, 842494.970	326166.307, 842494.970	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$424,399	\$424,399				0.8	1	1															
p15	5	Nauset Rd	Yes	Cape Cod Rail Trail to Brackett Road, 1 mile	325957.727, 847171.535	327100.936, 846147.529	CS Needs Assessment	PS, New Sidewalk	X	X	X	X		No	\$707,331	\$707,331				1	1	1															

See Details

Project Evaluation (1/5)

Proj. ID	Project Name	Streets Fundin Total Estimated Project Cost	1a Facility Factor	1c Facility Factor	Stage 1 Scoring (Based on Improvement to:)						Stage 2 Scoring					Total Benefit Score	Benefit/Cost Score
					1a - Pedestrian Safety	1b - Pedestrian Mobility	1c - Bicycle Safety	1d - Bicycle Mobility	1e - Network Connectivity	Stage 1 Score	2a - Access to Environmental Justice areas	2b - Public/Stakeholder Support	2c - Compatibility with Community Goals	2d - Environmental Impacts	Stage 2 Score		
P01	Beach Rd/Main St from Rt 28 to Nauset Beach: multiuse path	\$3,476,000	1.3	0.9	7.2	41.0	5.0	41.0	20.0	319.5	2	10	10	0	22.0	341.5	126
P02	Brewster Cross Rd: convert to 1-way eastbound	\$206,000	1.3	1.2	3.9	16.0	3.6	16.0	17.0	11.3	5	7	10	-3	19.0	30.3	189
P03	Tonset Rd: traffic calming	\$642,000	0.4	0.4	1.6	19.0	1.6	19.0	14.0	104.9	2	7	5	-3	11.0	115.9	231
P04	Tonset Rd/Main St Intersection: retiming signal, add left turn arrow, ped crossing, bike box	\$317,000	1	1	5.0	24.0	5.0	24.0	10.0	20.4	2	7	10	0	19.0	39.4	159
P05	Tonset Rd (Extension) from Main St to Rt 28: add sidewalk	\$300,000	0.9	0.7	3.2	36.0	2.5	36.0	15.0	18.5	2	7	5	0	14.0	32.5	139
P06	Main St from Tonset Rd to Rt 28: reconstruct sidewalk, eliminate pole obstructions	\$300,000	0.9	0.7	4.1	33.0	3.2	33.0	4.0	15.4	5	7	5	-1	16.0	31.4	134
P07	Main St from Meetinghouse Rd to Rt 28: construct sidewalk	\$1,157,000	0.9	0.7	4.5	43.0	3.5	43.0	8.0	81.6	2	7	5	-1	13.0	94.6	105
P08	Downtown & various locations: install bike racks	\$5,000				6.0		6.0	0.0	0.0	5	7	10	0	22.0	22.0	5500
P09	Depot Square: Bike Rest stop - kiosk, benches, fix it station, bike racks, etc.)	\$32,000				10.0		10.0	0.0	0.0	5	10	10	-1	24.0	24.0	960

Project Evaluation (2/5)

Proj. ID	Project Name	Total Estimated Project Cost	1a Facility Factor	1c Facility Factor	1a - Pedestrian Safety	1b - Pedestrian Mobility	1c - Bicycle Safety	1d - Bicycle Mobility	1e - Network Connectivity	Stage 1 Score	2a - Access to Environmental Justice areas	2b - Public/Stakeholder Support	2c - Compatibility with Community Goals	2d - Environmental Impacts	Stage 2 Score	Total Benefit Score	Benefit/Cost Score
P10	Old Colony Way from Staples Plaza to Main St on south side: construct sidewalk	\$300,000	0.9	0.7	3.6	34.0	2.8	34.0	4.0	15.7	5	7	5	0	17.0	32.7	140
P11	Rock Harbor Rd: bike/ped accommodations, shoulders	\$1,342,000	0.5	0.5	2.8	35.0	2.8	35.0	20.0	181.5	10	10	10	0	30.0	211.5	202
P12	Skaket Beach Rd: traffic calming	\$203,000	0.4	0.4	2.0	14.0	2.0	14.0	20.0	31.2	10	10	10	0	30.0	61.2	386
P13	Skaket Beach Rd: multi-use path	\$736,000	1.3	0.9	6.5	27.0	4.5	27.0	20.0	51.0	10	10	10	0	30.0	81.0	141
P14	Cape Cod Rail Trail @ Main St: bike tunnel or bridge	\$3,426,000	2	2	13.0	45.0	13.0	45.0	20.0	13.6	10	5	7	-3	19.0	32.6	12
P15	Rt 6A: add improved crosswalks	\$42,000			0.0	12.0		12.0	10.0	0.0	5	7	10	0	22.0	22.0	677
P16	Downtown from elementary school: construct pathway	\$368,000	1.5	1.5	4.5	37.0	4.5	37.0	4.0	26.1	2	7	5	0	14.0	40.1	139
P17	Create bike/ped facilities connecting to Orleans Conservation Trust and other open space trails	\$64,000				15.0		15.0	0.0	0.0		7	5	-1	11.0	11.0	220
P18	West Rd/Salty Ridge Rd intersection: install warning signage/safe crossing	\$13,000	1	1	5.0	7.0	5.0	7.0	8.0	3.2	10	7	5	0	22.0	25.2	2400

Project Evaluation (3/5)

Proj. ID	Project Name	Total Estimated Project Cost	1a Facility Factor	1c Facility Factor	1a - Pedestrian Safety	1b - Pedestrian Mobility	1c - Bicycle Safety	1d - Bicycle Mobility	1e - Network Connectivity	Stage 1 Score	2a - Access to Environmental Justice areas	2b - Public/Stakeholder Support	2c - Compatibility with Community Goals	2d - Environmental Impacts	Stage 2 Score	Total Benefit Score	Benefit/Cost Score
P19	Cape Cod Rail Trail @ Rt 6 (near Salty Ridge Rd): construct bridge over Rt 6	\$6,758,000	2	2	10.0	46.0	10.0	46.0	13.0	25.0	10	7	5	-4	18.0	43.0	8
P20	Cape Cod Rail Trail @ West Rd: improve crossing, RRFB	\$26,000			0.0	9.0		9.0	8.0	2.6	10	7	10	0	27.0	29.6	1480
P21	Rt 28 from Cove Rd to Main St: add sidewalk	\$300,000	0.9	0.7	5.9	32.0	4.6	32.0	16.0	18.1	2	7	5	-1	13.0	31.1	133
P22	Main St/School Rd intersection: improve safety	\$175,000	1	1	3.0	23.0	3.0	23.0	10.0	12.4	2	5	3	0	10.0	22.4	164
P23	Rt 28/Pond Rd & Finlay Rd: improve safety	\$175,000	1	1	4.5	20.0	4.5	20.0	10.0	11.8	2	5	3	-1	9.0	20.8	152
P24	Rt 28/Monument Rd intersection: improve safety	\$175,000	1	1	4.5	26.0	4.5	26.0	4.0	13.0	2	5	3	0	10.0	23.0	168
P25	Rt 28/Rt 39 & Quanset Rd intersection: improve safety	\$5,178,000	1	1	4.5	47.0	4.5	47.0	9.0	22.4	0	10	10	0	20.0	42.4	10
P26	Beach Rd: install speed tables	\$15,000	0.4	0.4	2.2	8.0	2.2	8.0	20.0	0.0	2	10	5	0	17.0	17.0	1417

Project Evaluation (4/5)

Proj. ID	Project Name	Total Estimated Project Cost	1a Facility Factor	1c Facility Factor	1a - Pedestrian Safety	1b - Pedestrian Mobility	1c - Bicycle Safety	1d - Bicycle Mobility	1e - Network Connectivity	Stage 1 Score	2a - Access to Environmental Justice areas	2b - Public/Stakeholder Support	2c - Compatibility with Community Goals	2d - Environmental Impacts	Stage 2 Score	Total Benefit Score	Benefit/Cost Score
P27	Install rumble strips on roads as advanced warning ahead of bike crossings	\$13,000				13.0		13.0	0.0	0.0		5	5	0	10.0	10.0	1000
P28	Construct gear lockers at beaches	\$19,000				11.0		11.0	0.0	0.0		10	5	-1	14.0	14.0	933
P29	West Rd (Cape Cod Rail Trail section): improve on-road accommodations	\$8,000	0.5	0.5	2.5	5.0	2.5	5.0	8.0	4.6	10	10	10	0	30.0	34.6	5864
P30	Monument Rd from Main St to Route 28: construct sidewalk	\$2,130,000	0.9	0.7	2.7	44.0	2.1	44.0	7.0	149.7	2	5	3	-1	9.0	158.7	95
P31	Monument Rd: traffic calming, improve crosswalk and install advance warning signage for Crystal Lake	\$515,000	0.4	0.4	1.2	28.0	1.2	28.0	5.0	95.1	2	10	7	-2	17.0	112.1	278
P32	Tonset Rd/Hopkins Ln intersection: improve safety	\$166,000	1	1	3.0	25.0	3.0	25.0	6.0	12.4	2	5	3	0	10.0	22.4	172
P33	Rt 28 from Tonset Rd to middle school: upgrade sidewalk	\$300,000	0.9	0.7	4.5	31.0	3.5	31.0	10.0	16.0	5	7	5	0	17.0	33.0	141
P34	Meetinghouse Rd from Main St to Hopkins Ln: construct sidewalk	\$441,000	0.9	0.7	1.8	42.0	1.4	42.0	7.0	28.3	2	5	3	0	10.0	38.3	111
P35	Main St/Meetinghouse Rd intersection: improve safety	\$166,000	1	1	3.0	21.0	3.0	21.0	8.0	11.2	2	5	3	0	10.0	21.2	163

Project Evaluation (5/5)

Proj. ID	Project Name	Total Estimated Project Cost	1a Facility Factor	1c Facility Factor	1a - Pedestrian Safety	1b - Pedestrian Mobility	1c - Bicycle Safety	1d - Bicycle Mobility	1e - Network Connectivity	Stage 1 Score	2a - Access to Environmental Justice areas	2b - Public/Stakeholder Support	2c - Compatibility with Community Goals	2d - Environmental Impacts	Stage 2 Score	Total Benefit Score	Benefit/Cost Score
P36	Tonset Rd from Main Street to Hopkins Ln: shared use path	\$630,000	1.3	0.9	5.2	40.0	3.6	40.0	12.0	50.4	2	7	5	0	14.0	64.4	131
P37	Sidewalk connections to Brewster on Route 6A	\$732,000	0.9	0.7	6.8	38.0	5.3	38.0	15.0	51.5	10	7	10	0	27.0	78.5	137
P38	Improved pedestrian connection through Orleans Cemetery (Tonset Rd to Main St)	\$424,000	1.5	1.5	2.3	30.0	2.3	30.0	8.0	21.8	2	10	10	0	22.0	43.8	132
P39	Route 6A/28 from Rotary to Old County Rd: construct sidewalks	\$433,000	1.5	1.1	10.5	18.0	7.7	18.0	11.0	19.6	10	10	10	-1	29.0	48.6	144
P40	Rts 6A/28 from Eastham Rotary to Orleans Roundabout: road diet	\$610,000	1.3	1.2	11.1	22.0	10.2	22.0	16.0	40.6	10	10	10	0	30.0	70.6	148
P41	Bay Ridge Ln: multi-use path connection to Cape Cod Rail Trail	\$245,000	1.5	1.5	6.0	17.0	6.0	17.0	9.0	11.0	10	7	10	0	27.0	38.0	198
P42	Brewster Cross Rd: sidewalk	\$300,000	0.9	0.7	2.7	29.0	2.1	29.0	17.0	16.0	5	7	5	0	17.0	33.0	141
P43	Rt 28 from downtown to Brewster town line: construct multi-use path	\$4,792,000	1.5	1.5	11.3	39.0	11.3	39.0	13.0	442.7	2	7	10	0	19.0	461.7	123

Project Ranking

Column	Explanation
Proj. ID	Identification code used in list and mapping
Status	LO= town-owned, laid out road NLO= town-owned, not laid out road SR=state-owned road (not eligible for Complete Streets Funding)
Preliminary Rank	1 = highest rank. Based on preliminary benefit/cost scoring
Project Name	Location and type of project
Total Benefit Score	Numerical analysis based on evaluation criteria
Total Estimated Cost	Based on standardized costs, adjusted for contingencies
Benefit/Cost Score	Total Benefit Score divided by Total Estimated Cost, then scaled uniformly



PRELIMINARY RANKING (1/2)

Proj. ID	Status	Preliminary Rank (for discussion purposes)	Project Name	Total Benefit Score	Total Estimated Project Cost	Benefit/Cost Score
P29	LO	1	West Rd (Cape Cod Rail Trail section): improve on-road accommodations	34.6	\$8,000	5864
P08		2	Downtown & various locations: install bike racks	22.0	\$5,000	5500
P18	LO	3	West Rd/Salty Ridge Rd intersection: install warning signage/safe crossing	25.2	\$13,000	2400
P20	LO	4	Cape Cod Rail Trail @ West Rd: improve crossing, RRFB	29.6	\$26,000	1480
P26	NLO	5	Beach Rd: install speed tables	17.0	\$15,000	1417
P27		6	Install rumble strips on roads as advanced warning ahead of bike crossings	10.0	\$13,000	1000
P09		7	Depot Square: Bike Rest stop - kiosk, benches, fix it station, bike racks, etc.)	24.0	\$32,000	960
P28		8	Construct gear lockers at beaches	14.0	\$19,000	933
P15	SR	9	Rt 6A: add improved crosswalks	22.0	\$42,000	677
P12	NLO	10	Skaket Beach Rd: traffic calming	61.2	\$203,000	386
P31	NLO	11	Monument Rd: traffic calming, improve crosswalk and install advance warning signage for Crystal Lake	112.1	\$515,000	278
P03	LO	12	Tonset Rd: traffic calming	115.9	\$642,000	231
P17		13	Create bike/ped facilities connecting to Orleans Conservation Trust and other open space trails	11.0	\$64,000	220
P11	NLO	14	Rock Harbor Rd: bike/ped accommodations, shoulders	211.5	\$1,342,000	202
P41	NLO	15	Bay Ridge Ln: multi-use path connection to Cape Cod Rail Trail	38.0	\$245,000	198
P02	LO	16	Brewster Cross Rd: convert to 1-way eastbound	30.3	\$206,000	189
P32	LO	17	Tonset Rd/Hopkins Ln intersection: improve safety	22.4	\$166,000	172
P24	SR	18	Rt 28/Monument Rd intersection: improve safety	23.0	\$175,000	168
P22	LO	19	Main St/School Rd intersection: improve safety	22.4	\$175,000	164
P35	LO	20	Main St/Meetinghouse Rd intersection: improve safety	21.2	\$166,000	163
P04	LO	21	Tonset Rd/Main St Intersection: retiming signal, add left turn arrow, ped crossing, bike box	39.4	\$317,000	159
P23	SR	22	Rt 28/Pond Rd & Finlay Rd: improve safety	20.8	\$175,000	152

PRELIMINARY RANKING (2/2)

Proj. ID	Status	Preliminary Rank (for discussion purposes)	Project Name	Total Benefit Score	Total Estimated Project Cost	Benefit/Cost Score
P40	SR	23	Rts 6A/28 from Eastham Rotary to Orleans Roundabout: road diet	70.6	\$610,000	148
P39	SR	24	Route 6A/28 from Rotary to Old County Rd: construct sidewalks	48.6	\$433,000	144
P33	SR	25	Rt 28 from Tonset Rd to middle school: upgrade sidewalk	33.0	\$300,000	141
P13	NLO	26	Skaket Beach Rd: multi-use path	81.0	\$736,000	141
P42	LO	27	Brewster Cross Rd: sidewalk	33.0	\$300,000	141
P10	LO	28	Old Colony Way from Staples Plaza to Main St on south side: construct sidewalk	32.7	\$300,000	140
P16		29	Downtown from elementary school: construct pathway	40.1	\$368,000	139
P05	LO	30	Tonset Rd (Extension) from Main St to Rt 28: add sidewalk	32.5	\$300,000	139
P37	SR	31	Sidewalk connections to Brewster on Route 6A	78.5	\$732,000	137
P06	LO	32	Main St from Tonset Rd to Rt 28: reconstruct sidewalk, eliminate pole obstructions	31.4	\$300,000	134
P21	SR	33	Rt 28 from Cove Rd to Main St: add sidewalk	31.1	\$300,000	133
P38		34	Improved pedestrian connection through Orleans Cemetery (Tonset Rd to Main St)	43.8	\$424,000	132
P36	LO	35	Tonset Rd from Main Street to Hopkins Ln: shared use path	64.4	\$630,000	131
P01	NLO	36	Beach Rd/Main St from Rt 28 to Nauset Beach: multiuse path	341.5	\$3,476,000	126
P43	SR	37	Rt 28 from downtown to Brewster town line: construct multi-use path	461.7	\$4,792,000	123
P34	NLO	38	Meetinghouse Rd from Main St to Hopkins Ln: construct sidewalk	38.3	\$441,000	111
P07	LO	39	Main St from Meetinghouse Rd to Rt 28: construct sidewalk	94.6	\$1,157,000	105
P30	NLO	40	Monument Rd from Main St to Route 28: construct sidewalk	158.7	\$2,130,000	95
P14		41	Cape Cod Rail Trail @ Main St: bike tunnel or bridge	32.6	\$3,426,000	12
P25	SR	42	Rt 28/Rt 39 & Quanset Rd intersection: improve safety	42.4	\$5,178,000	10
P19	SR	43	Cape Cod Rail Trail @ Rt 6 (near Salty Ridge Rd): construct bridge over Rt 6	43.0	\$6,758,000	8

Feedback Time

We need your input!

- Review preliminary ranking of projects
 - Do the preliminary rankings match the community's needs/priorities?
 - If not, which projects should be ranked higher?
- Are there any projects missing from the preliminary rankings?

Group Activity

Review a map of potential projects and discuss the preliminary rankings.

NEXT STEPS

- Work with town to revise rankings based on Town of Orleans' priorities
- Public comments accepted through November 22nd
- Revise draft plan based on public & town staff input
- Submit draft plan to MassDOT
- Receive feedback from MassDOT & resubmit as needed
- Town of Orleans submits Complete Streets projects for potential MassDOT funding



CAPE COD
COMMISSION

THANK YOU

For more information:

www.capecodcommission.org/OrleansCompleteStreets

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