
7.1 Project 1

The first project recommended would include the sidewalk on Main Street between North Road and the Buel Block on the north side of Main Street and west of Glennbrook Road and the Castleton Village Store on the south side. It would also include the replacement of the sidewalk on South Street between Main Street and the Jeffords Center. It would include the crosswalks and rapid flashing beacons at the Main Street crossings of North Road/South Street and Mechanic Street/Elm Street.

In addition, this project includes the painting of bike lanes between Sand Hill Road and the Castleton Village Store, construction of bump outs and refuge islands, restriping of crosswalks, and street furniture.

**Table 3
Project 1 Estimated Costs**

Project 1		Unit Price	Total Item Cost
Sidewalk Segment		Length (LF)	\$/LF
Main St			
North Rd at St. John			
w/ curb	60	\$330	\$19,800
w/o curb	0	\$197	\$0
North Rd to Mechanic St			
w/ curb	455	\$330	\$150,150
w/o curb	340	\$197	\$66,980
Mechanic St to Buel Block			
w/o curb	215	\$197	\$42,355
W of Glennbrook to South St			
w/ curb	0	\$330	\$0
w/o curb	740	\$197	\$145,780
South St to Elm St			
w/ curb	510	\$330	\$168,300
w/o curb	45	\$197	\$8,865
Elm St to Castleton Village Store			
w/ curb	0	\$330	\$0
w/o curb	145	\$197	\$28,565
South St Main St to Jeffords Center			
w/ curb	0	\$330	\$0
w/o curb	940	\$197	\$185,180
Add'l SW for bump outs/islands			
w/ curb	270	\$330	\$89,100
Drainage		LS	\$/LS
5% of Sidewalk Cost		1	\$45,260
Bike Lanes		Length (MI)	\$/MI
Sand Hill Rd to Buel Block			
Double for parking, buffer & shoulder		0.7	\$34,400
Separators (1 side)		1.4	\$34,400
		0.2	\$100,000
Street Furniture		Each	\$/Each
Benches (2)		2	\$2,500
Bike Racks (2)		2	\$2,500
RRFBs		Each	\$/Each
North Rd/South St		1	\$10,000
Elm St/Mechanic St		1	\$10,000
Conceptual Construction Costs			\$1,072,575
Preliminary (Design) Engineering (22%)			\$235,970
Construction Engineering (15%)			\$160,890
Subtotal			\$1,469,435
Total			\$1,500,000

Costs are generated from VTrans "Report on Shared-Use Path and Sidewalk Costs" dated January 2020

7.2 Project 2

Project 2 would include the remaining pedestrian and bicycle improvements recommended in the Preferred Alternative. These improvements are located east of Project 1, including the construction of sidewalk on the north and south sides of Main Street between the Buel Block/Castleton Village Store and the Amtrak station/D&H trailhead. This project would include the crosswalk and rapid flashing beacon across Main Street between the Amtrak station and the D&H trailhead. It would also complete the recommended bike lanes and restriping in the same area.

**Table 4
Project 2 Estimated Costs**

Project 2		Unit Price	Total Item Cost
Sidewalk Segment	Length (LF)	\$/LF	\$
Main St			
Buel Block to Amtrak Station			
w/ curb	835	\$330	\$275,550
w/o curb	575	\$197	\$113,275
Castleton Village Store to D&H			
w/ curb	525	\$330	\$173,250
w/o curb	975	\$197	\$192,075
Add'l SW for bump outs/islands			
w/ curb	0	\$330	\$0
Drainage	LS	\$/LS	\$
5% of Sidewalk Cost	1	\$37,710	\$37,710
Bike Lanes	Length (MI)	\$/MI	\$
Buel Block to Amtrak	0.3	\$34,400	\$10,320
Double for parking, buffer & shoulder	0.6	\$34,400	\$20,640
Separators (1 side)	0	\$100,000	\$0
Street Furniture	Each	\$/Each	\$
-	0	\$2,500	\$0
-	0	\$2,500	\$0
RRFBs	Each	\$/Each	\$
Amtrak to D&H	1	\$10,000	\$10,000
-		\$10,000	\$0
	Conceptual Construction Costs		\$832,820
	Preliminary (Design) Engineering (22%)		\$183,225
	Construction Engineering (15%)		\$124,925
	Subtotal		\$1,140,970
	Total		\$1,150,000

Costs are generated from VTrans "Report on Shared-Use Path and Sidewalk Costs" dated January 2020

7.3 Project 3

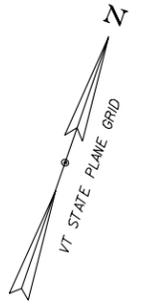
Project 3 consists of the ornamental lighting on Main Street between North Road/South Street and the Buel Block/Castleton Village Store as a stand-alone project. The funding for this lighting would likely have a different funding source and/or match.

**Table 5
Project 3 Estimated Costs**

Project 3		Unit Price	Total Item Cost
Lighting	LS	\$/LS	\$
North Rd/South St to Buel Block	1	\$400,000	\$400,000
		Conceptual Construction Costs	\$400,000
		Preliminary (Design) Engineering (22%)	\$88,000
		Construction Engineering (15%)	\$60,000
		Subtotal	\$548,000
		Total	\$550,000

Costs are based on major item unit prices for decorative lighting and wiring costs.

ALTERNATIVE 3 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY

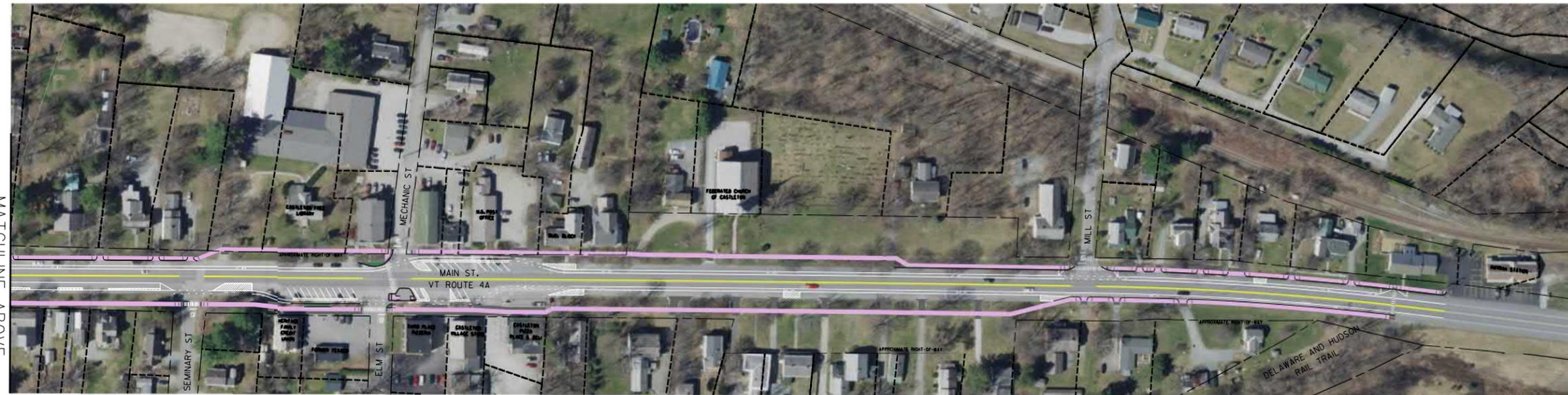
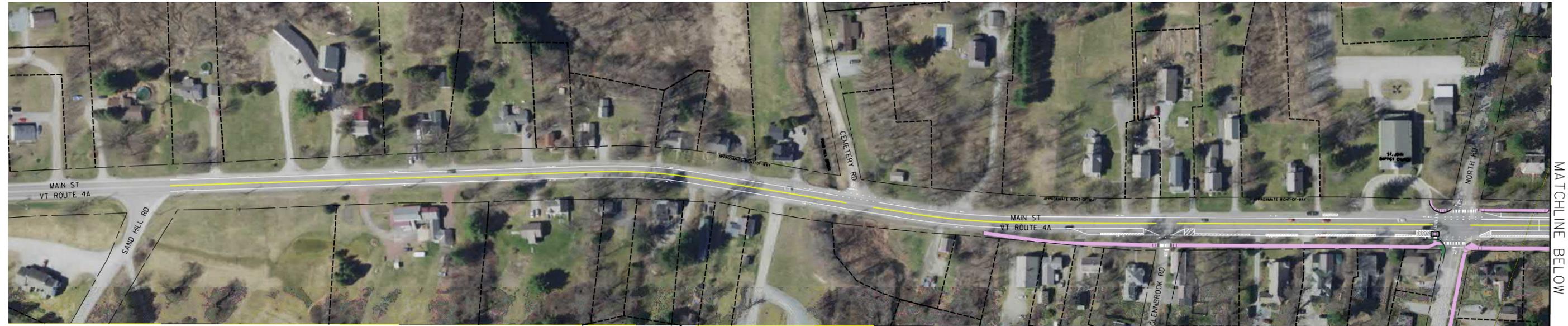


MAIN STREET:

- NORTH SIDE
 - PROPOSED 6 FT. WIDE SIDEWALK FROM NORTH ROAD TO THE AMTRAK STATION
 - PROPOSED 5 FT. WIDE BIKE LANE FROM SAND HILL ROAD TO THE AMTRAK STATION
- SOUTH SIDE
 - PROPOSED 6 FT. WIDE SIDEWALK FROM WEST OF GLENNBROOK ROAD TO THE DELAWARE & HUDSON RAIL TRAIL
 - PROPOSED 5 FT. WIDE BIKE LANE FROM SAND HILL ROAD TO THE DELAWARE AND HUDSON RAIL TRAIL

SOUTH STREET:

- EAST SIDE
 - PROPOSED 6 FT. WIDE SIDEWALK FROM MAIN STREET TO THE CASTLETON UNIVERSITY JEFFORDS CENTER



MATCHLINE ABOVE

MATCHLINE BELOW



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY



MATCHLINE ALTERNATIVE 3 PLAN SHEET 2

LEGEND

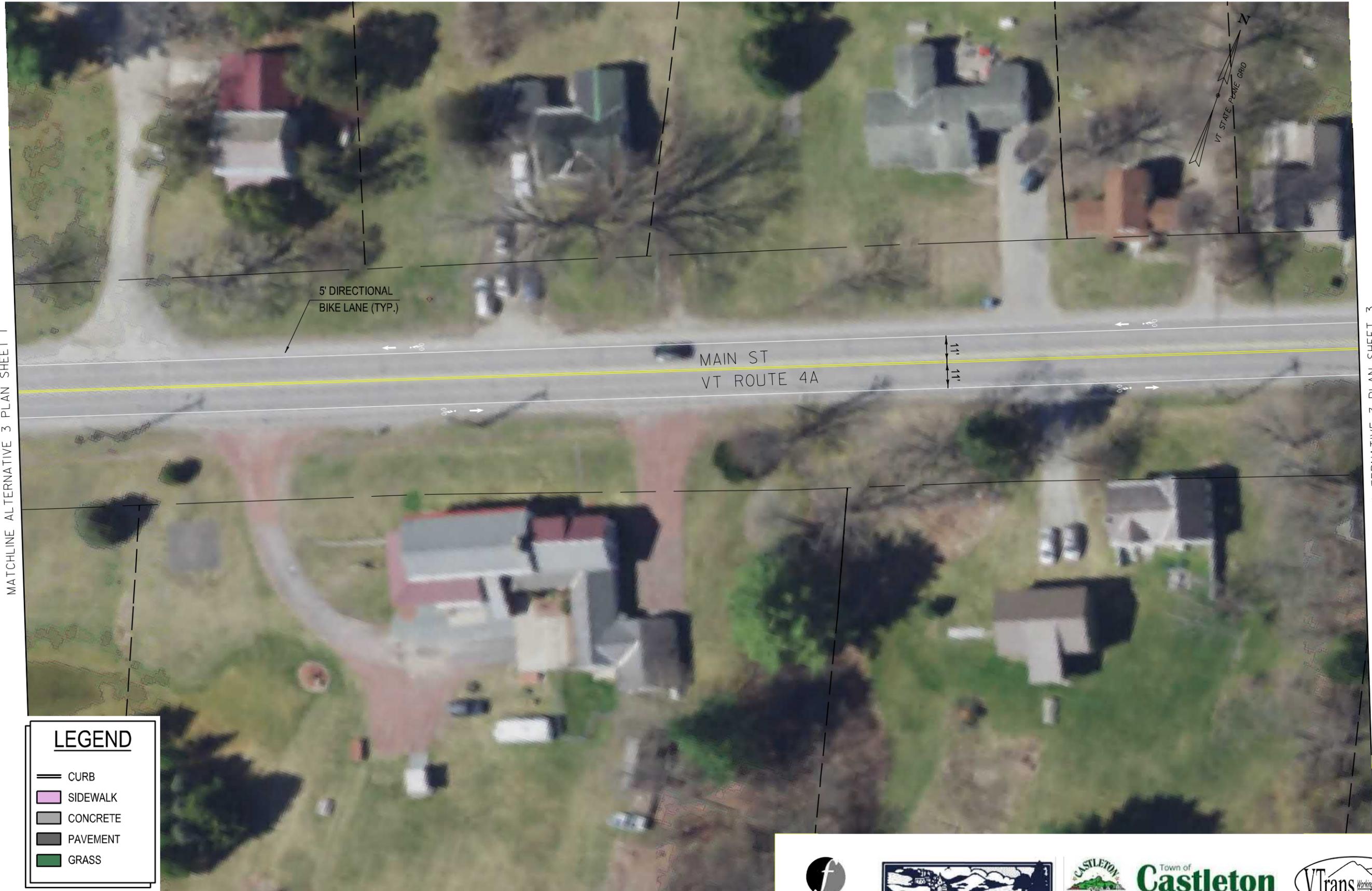
- CURB
- SIDEWALK
- CONCRETE
- PAVEMENT
- GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY

MATCHLINE ALTERNATIVE 3 PLAN SHEET 1

MATCHLINE ALTERNATIVE 3 PLAN SHEET 3

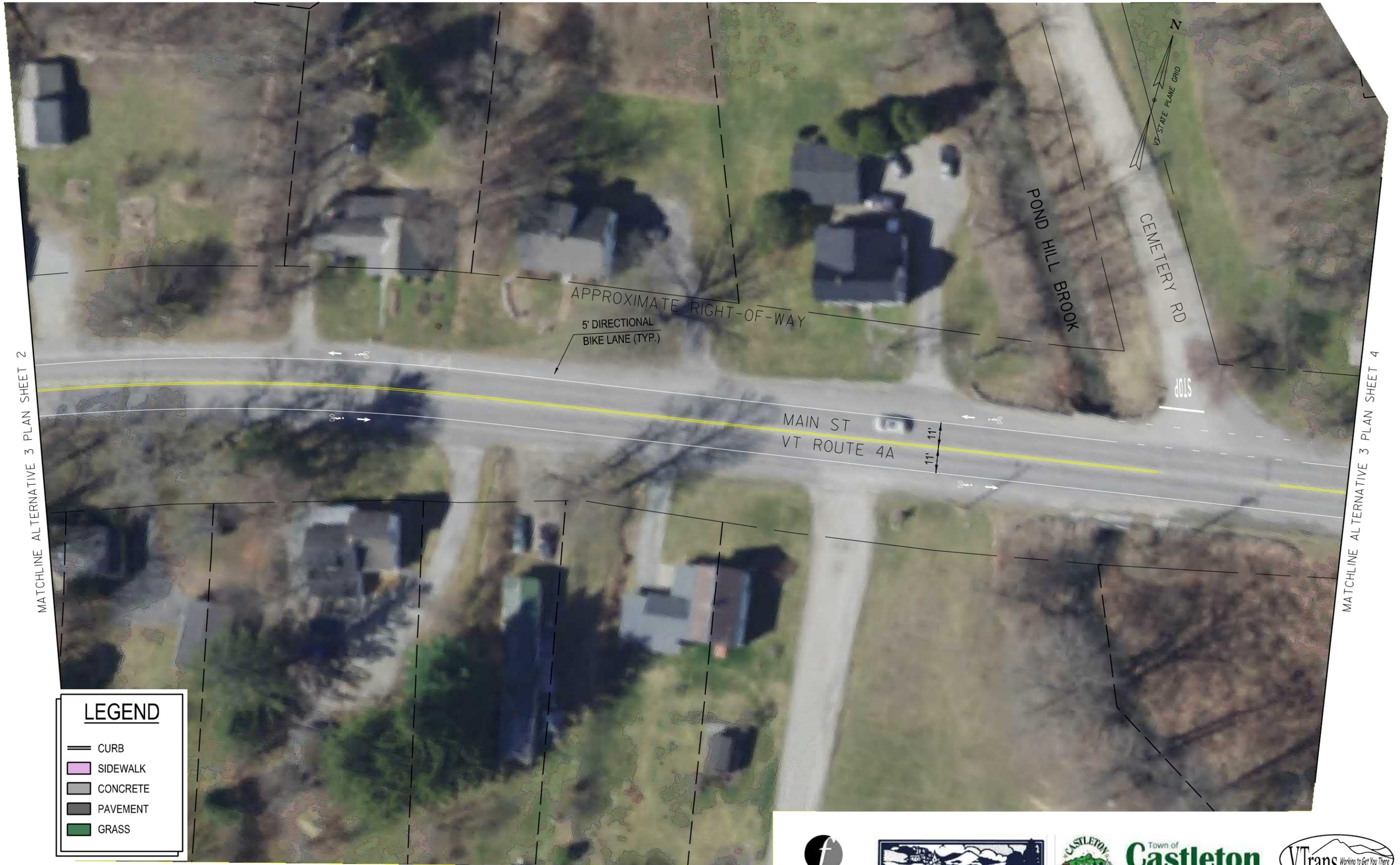


LEGEND

-  CURB
-  SIDEWALK
-  CONCRETE
-  PAVEMENT
-  GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY

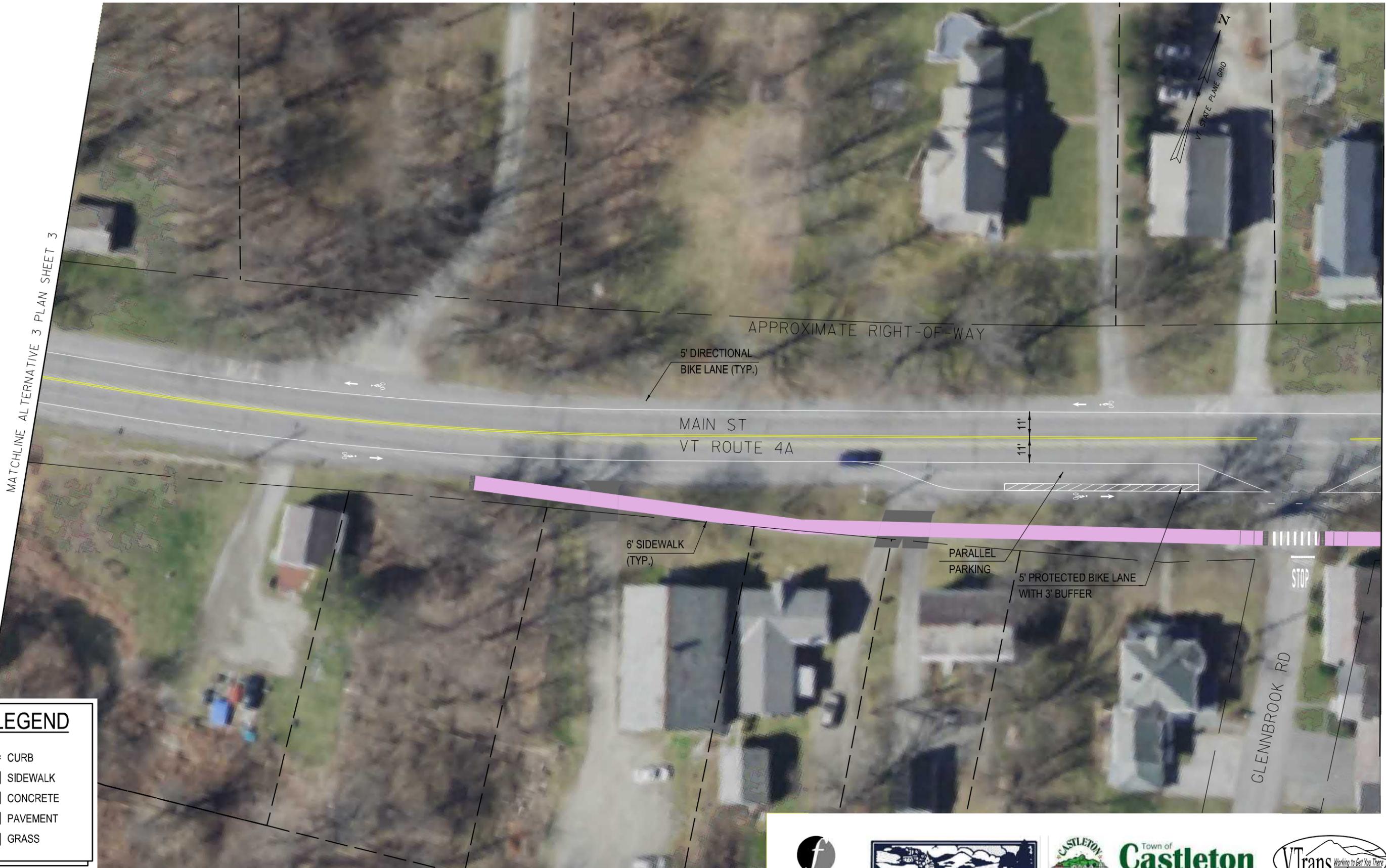


LEGEND

-  CURB
-  SIDEWALK
-  CONCRETE
-  PAVEMENT
-  GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY

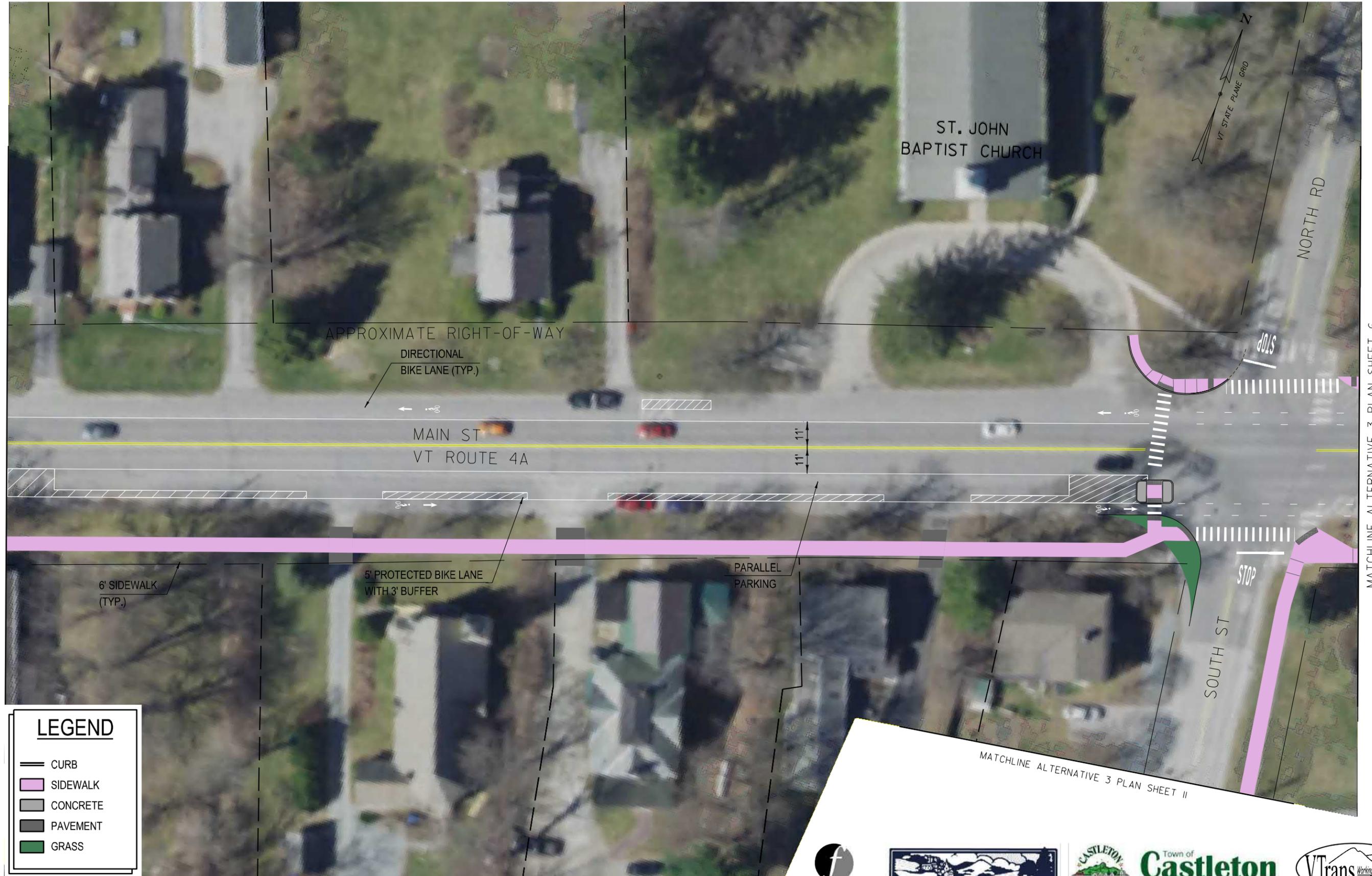


LEGEND

-  CURB
-  SIDEWALK
-  CONCRETE
-  PAVEMENT
-  GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY



MATCHLINE ALTERNATIVE 3 PLAN SHEET 4

MATCHLINE ALTERNATIVE 3 PLAN SHEET 6

LEGEND	
	CURB
	SIDEWALK
	CONCRETE
	PAVEMENT
	GRASS



MATCHLINE ALTERNATIVE 3 PLAN SHEET II

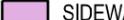
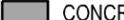
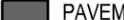
ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY

MATCHLINE ALTERNATIVE 3 PLAN SHEET 5

MATCHLINE ALTERNATIVE 3 PLAN SHEET 7

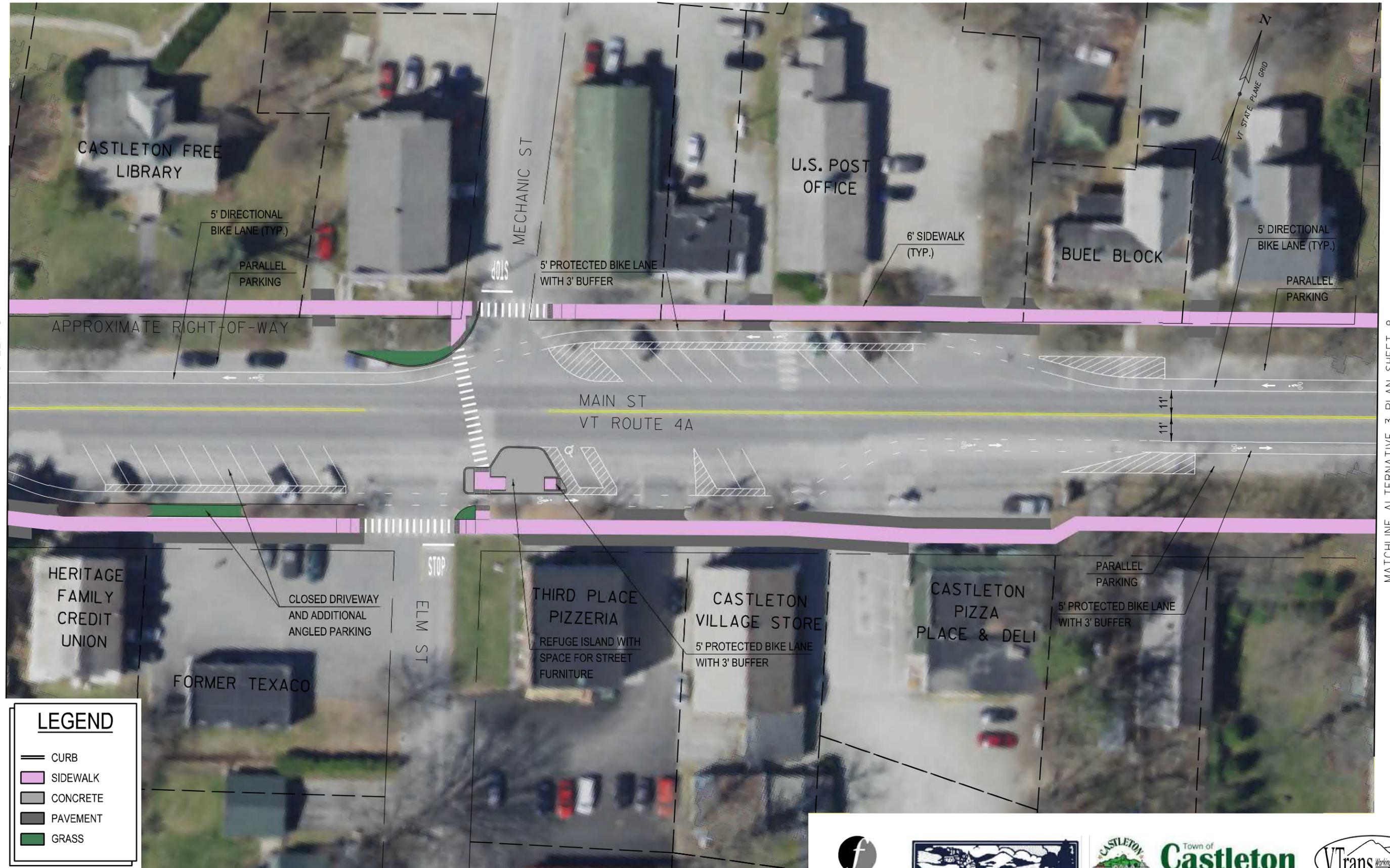


LEGEND

-  CURB
-  SIDEWALK
-  CONCRETE
-  PAVEMENT
-  GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY



MATCHLINE ALTERNATIVE 3 PLAN SHEET 6

MATCHLINE ALTERNATIVE 3 PLAN SHEET 8

LEGEND

- CURB
- SIDEWALK
- CONCRETE
- PAVEMENT
- GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY



MATCHLINE ALTERNATIVE 3 PLAN SHEET 7

MATCHLINE ALTERNATIVE 3 PLAN SHEET 9

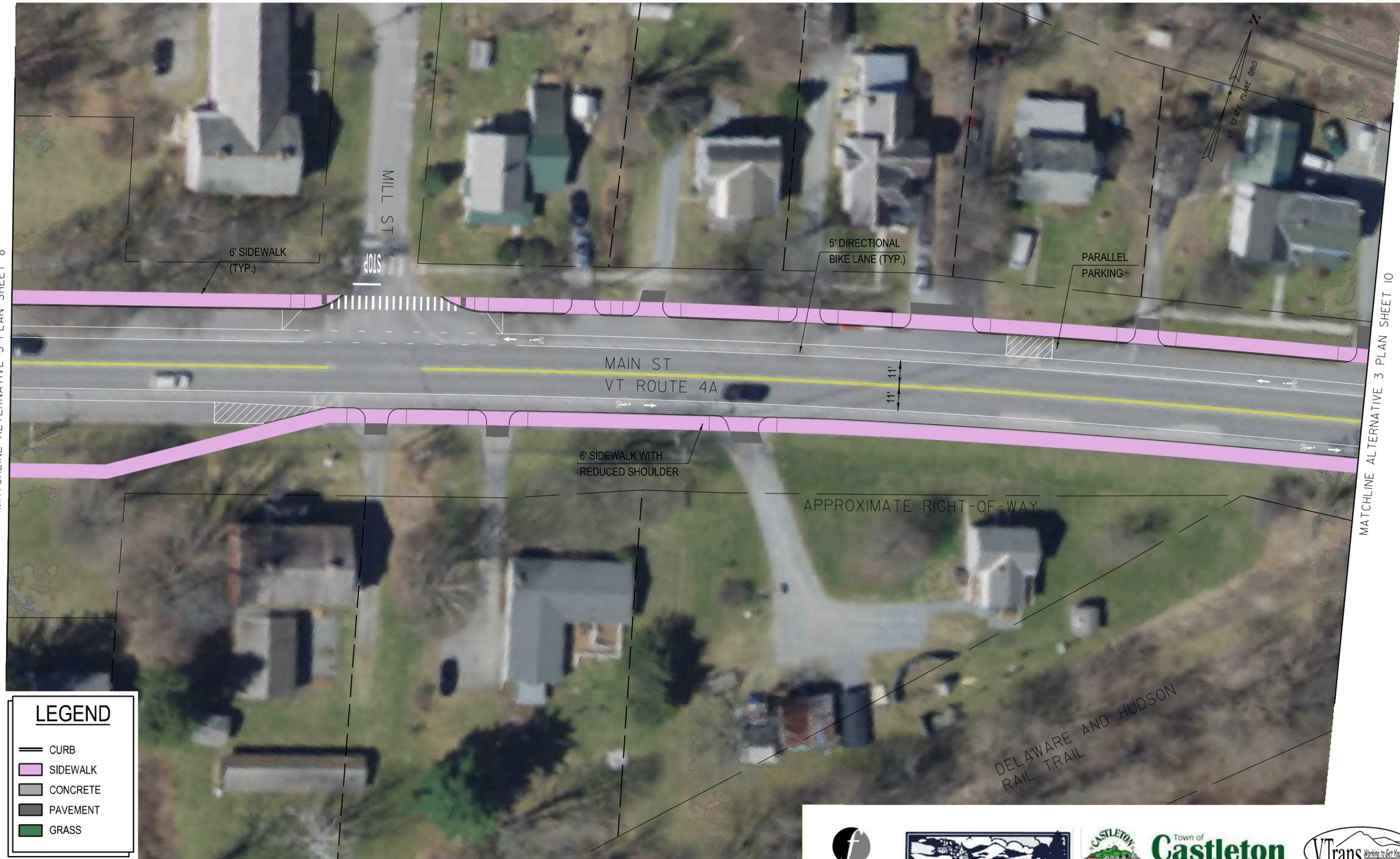
LEGEND	
	CURB
	SIDEWALK
	CONCRETE
	PAVEMENT
	GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY

MATCHLINE ALTERNATIVE 3 PLAN SHEET 8

MATCHLINE ALTERNATIVE 3 PLAN SHEET 10



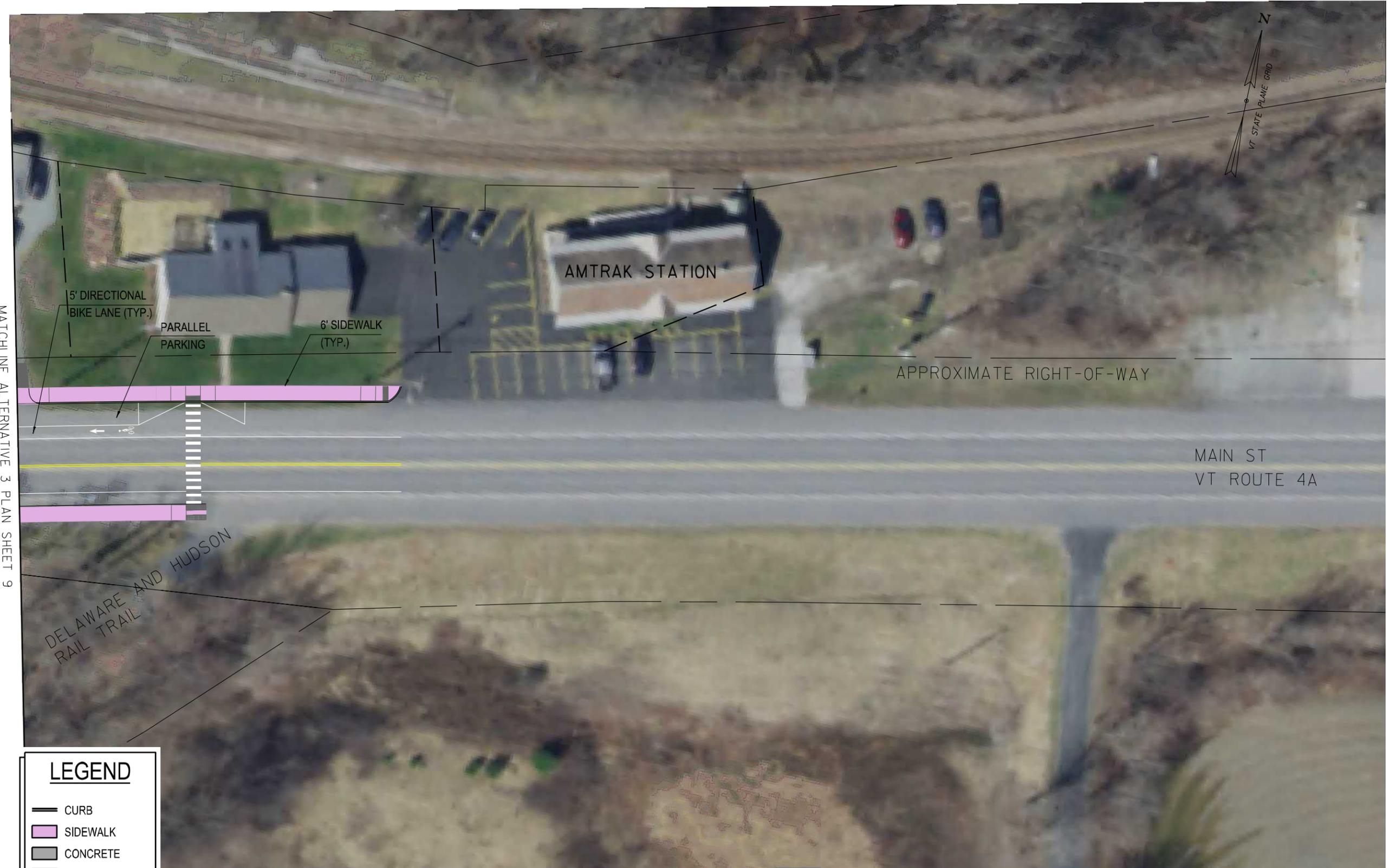
LEGEND

- CURB
- SIDEWALK
- CONCRETE
- PAVEMENT
- GRASS



DELAWARE AND HUDSON
 RAIL TRAIL

ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY

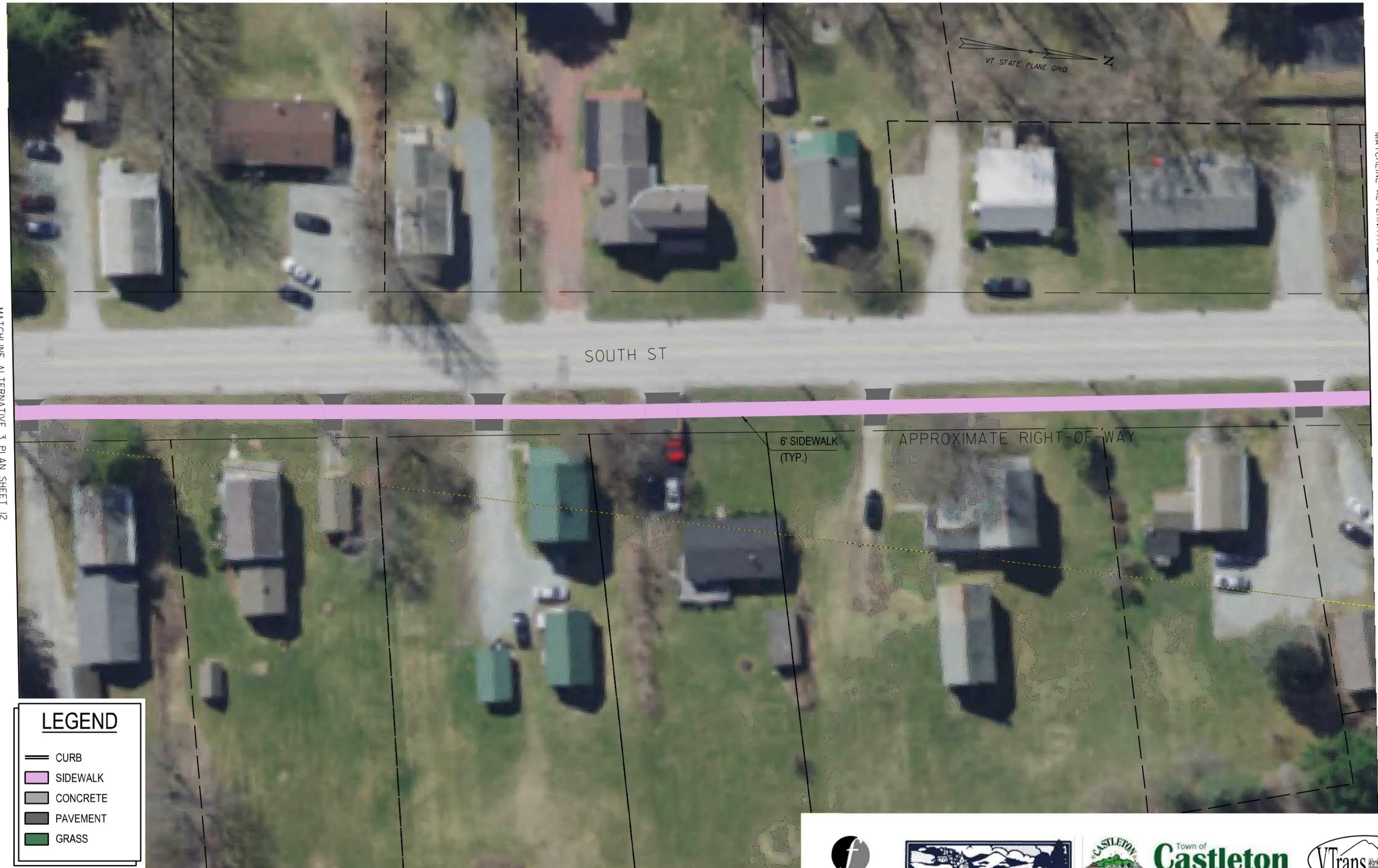


MATCHLINE ALTERNATIVE 3 PLAN SHEET 9

LEGEND	
	CURB
	SIDEWALK
	CONCRETE
	PAVEMENT
	GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY



MATCHLINE ALTERNATIVE 3 PLAN SHEET 12

MATCHLINE ALTERNATIVE 3 PLAN SHEET 5



SOUTH ST

6' SIDEWALK
(TYP.)

APPROXIMATE RIGHT-OF-WAY

LEGEND

-  CURB
-  SIDEWALK
-  CONCRETE
-  PAVEMENT
-  GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY



CASTLETON UNIVERSITY
 CAMPUS CENTER

SOUTH ST

APPROXIMATE RIGHT-OF-WAY

6' SIDEWALK
 (TYP.)

JEFFORDS CENTER

MATCHLINE ALTERNATIVE 3 PLAN SHEET 13

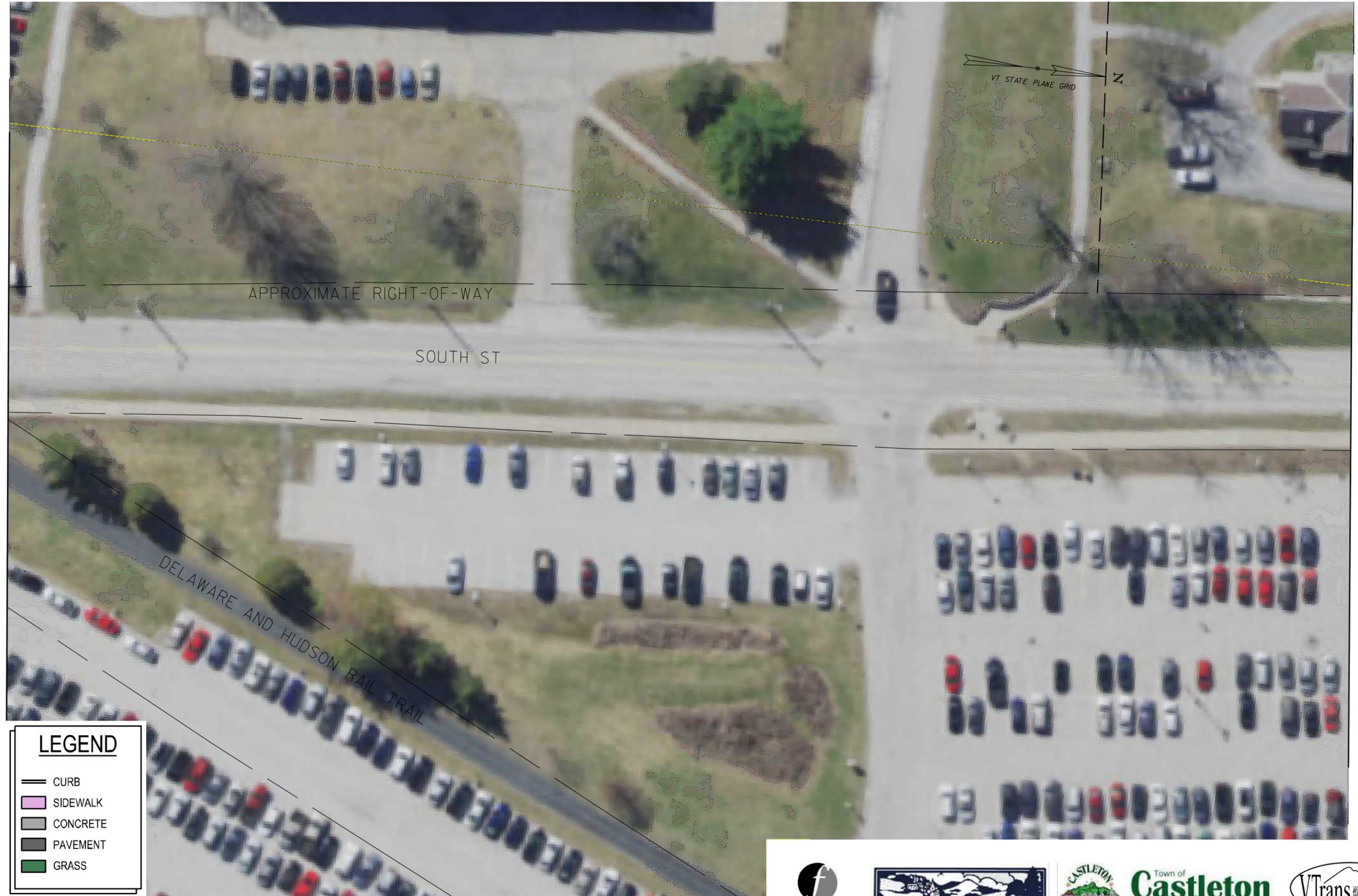
MATCHLINE ALTERNATIVE 3 PLAN SHEET 11

LEGEND

-  CURB
-  SIDEWALK
-  CONCRETE
-  PAVEMENT
-  GRASS



ALTERNATIVE 3
 CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY



MATCHLINE ALTERNATIVE 3 PLAN SHEET 14

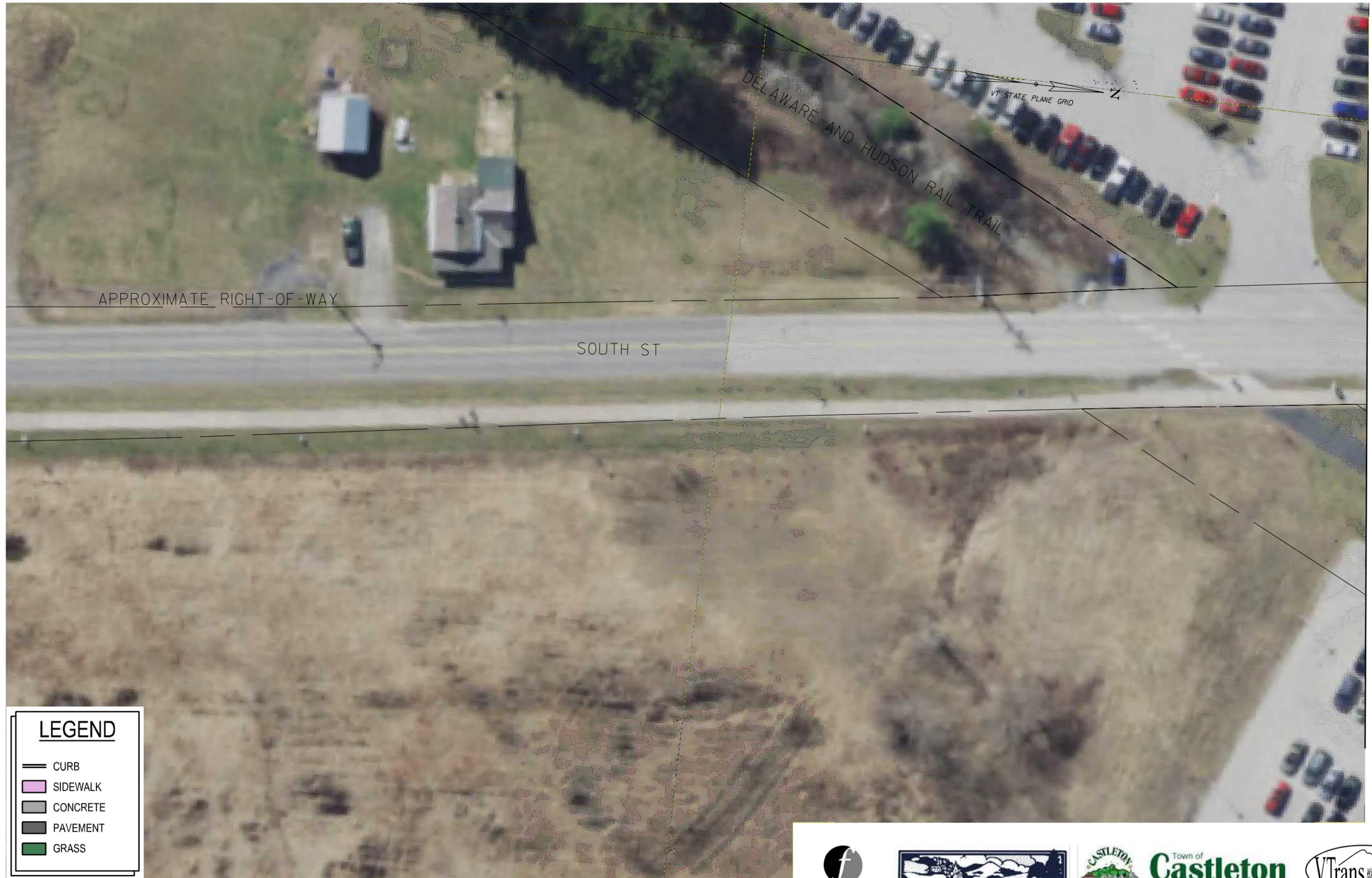
MATCHLINE ALTERNATIVE 3 PLAN SHEET 12

LEGEND

-  CURB
-  SIDEWALK
-  CONCRETE
-  PAVEMENT
-  GRASS



ALTERNATIVE 3
CASTLETON TAP TA 20(2) PEDESTRIAN SCOPING STUDY



APPROXIMATE RIGHT-OF-WAY

SOUTH ST

DELAWARE AND HUDSON RAIL TRAIL

VT STATE PLANE GRID

LEGEND

- CURB
- SIDEWALK
- CONCRETE
- PAVEMENT
- GRASS



MATCHLINE ALTERNATIVE 3 PLAN SHEET 13