

SRTS #15991
GRANITE STREET – PARKWOOD AVENUE
ALLENSTOWN, NH

ALTERNATIVES ANALYSIS

PROJECT PURPOSE

Working in partnership with the Federal Highway Administration (FHWA), the New Hampshire Department of Transportation (NHDOT) provides grant funding through the Safe Routes to School (SRTS) program to Towns and Cities in New Hampshire for the design and construction of transportation related infrastructure to enable and encourage elementary and middle school children to safely walk and ride bicycles to school. These grants provide 100% reimbursement of eligible cost back to the Municipality.

PLANNING

In 2013 the Town of Allenstown NH successfully completed the construction of 900' of sidewalk project along Main Street from Ferry Street to the Elementary School at the intersection of Granite Street under the SRTS Grant Funding. The next phase of the project is for the design of about 1,500 l.f. of sidewalk to connect Holiday Acres Park at Parkwood Drive to the existing sidewalk on Granite Street at the entrance to the Rite Aid Plaza.

The proposed sidewalks along Granite Street will be

5' wide raised sidewalks with vertical granite curbing leading to a crosswalk at Route 3. The crosswalk at Route 3 will include a signalized pedestrian crossing phase integrated with the existing traffic signal. After crossing Route 3 the sidewalk will continue along Granite Street to Chester Turnpike, cross Chester Turnpike and end at Parkwood Drive.

The Planning Process includes an analysis of the available routes along Granite Street and the positives (pros) and negatives (cons) of each.



Sidewalk Along Main Street Looking South Towards the School

SRTS #15991
GRANITE STREET – PARKWOOD AVENUE
ALLENSTOWN, NH

ALTERNATIVES ANALYSIS

For this project we looked at three (3) alternative walking routes:

Alternative 1: A sidewalk along the northerly side of Granite Street starting at the existing sidewalk at the Rite Aid entrance, continuing along the edge of the road, past the Police Department, to Route 3. Crossing Route 3 and continuing along the northerly side of Granite Street to Chester Turnpike, across the Turnpike staying on the northerly side of Granite Street and at the entrance to Parkwood Drive cross Granite Street and end at the entrance to Parkwood Drive.

Alternative 2: A sidewalk along the northerly side of Granite Street starting at the existing sidewalk at the Rite Aid entrance, continuing along the edge of the road past the Police Department, to Route 3. Crossing Route 3 and continuing along the northerly side of Granite Street to Chester Turnpike. At Chester Turnpike cross over to the south side of Granite Street and then cross back across Chester Turnpike and continue along the southerly side of Granite Street to the entrance to Parkwood Drive

Alternative 3: A sidewalk along the northerly side of Granite Street starting at the existing sidewalk at the Rite Aid entrance, continuing along the edge of the road past the Police Department, to Route 3. Crossing Route 3, then crossing over to the south side of Granite Street at the signalized intersection, and then continuing along the southerly side of Granite to Chester Turnpike, cross the Turnpike staying on the south side of Granite Street and ending at Parkwood Drive.

SRTS #15991
GRANITE STREET – PARKWOOD AVENUE
ALLENSTOWN, NH

ALTERNATIVES ANALYSIS

ALTERNATIVES

The analysis touches on the pros and cons of each alternative and includes a cursory review of impacts to existing infrastructure, abutter driveways, drainage concerns and implementation (construction) costs.

ALTERNATIVE 1:

Pros

- Provides a continuous raised sidewalk along Granite Street to Parkwood Drive
- Signalized pedestrian light integrated with existing traffic signal at Route 3
- Demarcates well defined paths of travel for pedestrians
- Demarcates driveway access at each property along the walking route
- Well defined crossing of Chester Turnpike

Cons

- At Chester Turnpike sidewalk would impact the existing ditch line
- Impacts to ditch line will require drainage upgrades
- May require installing underground piping and upgrades to existing piping to the river
- May require easements and/or land from abutters
- Wetland environmental permitting through the State.
- Mid-block crosswalk
- Surface storm water run-off is concentrated at the intersection of Chester Turnpike and at the culvert at the commercial entrance across from Parkwood Drive
- Costs to improve the drainage along Granite Street

ALTERNATIVE 2:

Pros

- Provides a raised sidewalk along Granite Street to Parkwood Drive
- Signalized pedestrian light integrated with existing traffic signal at Route 3
- Demarcates well defined paths of travel for pedestrians
- Demarcates driveway access at each property along the walking route
- Well defined crossing of Granite Street and Chester Turnpike
- Eliminates potential impacts to the existing ditch line
- Provides safe haven for pedestrians coming from the south along Chester Turnpike

SRTS #15991
GRANITE STREET – PARKWOOD AVENUE
ALLENSTOWN, NH

ALTERNATIVES ANALYSIS

- Eliminates the mid-block crossing
- Integrates directly into Parkwood Drive
- Consistent with existing pedestrian foot traffic path

Cons

- May require upgrades for drainage at the south east quadrant
- May require easements and/or land from abutter.

ALTERNATIVE 3:

Pros

- Provides a continuous raised sidewalk along Granite Street to Parkwood Drive
- Signalized pedestrian light integrated with existing traffic signal at Route 3
- Demarcates well defined paths of travel for pedestrians
- No interaction with commercial driveways along the walking route
- Sidewalk only integrates with one driveway on the far side of Chester Turnpike
- Well defined crossing of Chester Turnpike
- Eliminates the mid-block crossing
- Integrates directly into Parkwood Drive

Cons

- Would require crossing at the signalized intersection in 2 directions
- Pedestrians would be directed to the signalized intersection to gain access to the Plaza
- Signalized pedestrian integration would require upgrades to the roadway to accommodate the cross walk signals
- Pedestrian route is not consistent with existing foot traffic paths
- Cost of upgrades to the signalized intersection to include the 2nd crossing

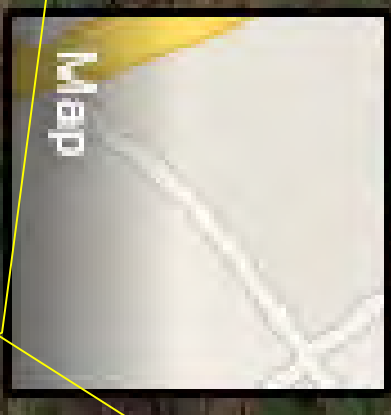
SRTS #15991
GRANITE STREET – PARKWOOD AVENUE
ALLENSTOWN, NH

ALTERNATIVES ANALYSIS

Recommendation

Based on the review of the routes available it is recommended that Alternative “2” be pursued.

Although each alternative would provide a well-defined pedestrian route to and from Parkwood Drive, Alternative 2 appears to provide a route that is more consistent with the existing pedestrian foot traffic route, provides access to the Plaza, minimizes impacts to the existing drainage ditch along the northerly side of Granite Street, provides for pedestrian access from the south along Chester Turnpike, and is likely the least cost to implement.



109-0469
JUSTINE CURRIER
C/O SHAKES & SPICES
18 MAPLE STREET
ALLENSTOWN, NH 03275

109-0091-002
SOUTH COUNTY PROPERTIES
C/O VOLUME INC
240 WAREY ROAD
MADRID, NH 03257

108-0023
DETRONIC ASSOC, INC
C/O BETTI NEAL TV CO
125 FLETCHER BLVD SUITE 101
NEW ROSE, NH 03275

109-0171
47 ALLENSTOWN LN
55 GRANITE
BLVD ALLENSTOWN, NH
03275

109-0034
TOWN OF ALLENSTOWN
PHONE DEPARTMENT
18 SOUTH STREET
ALLENSTOWN, NH 03275

109-0332
WAREAN GROUP LLC
C/O BIRSE WARETT, INC
PO BOX 232
ALLENSTOWN, NH 03275

109-025
MICHAEL & DENISE CORCORAN
36 KIMBLEY LANE
ALLENSTOWN, NH 03275

109-025
DAVEY PROPERTIES, LLC
48 BARRILETT STREET
ALLENSTOWN, NH 03275

108-005
PICKFORD SAND & GRAVEL LTD INC
PO BOX 222
BRIMSDON, NH 03275

109-018
JUSTINE CURRIER
C/O SHAKES & SPICES
18 MAPLE STREET
ALLENSTOWN, NH 03275

109-022
SCOTT STAR & SANDRA ZEPHERO
24 KOON WORKS ROAD
ALLENSTOWN, NH 03275

109-021
HOLLEN AC JT TRUST
STEPHEN HYNES TRUSTEE
1-A FLETCHER ROAD DRIVE
ALLENSTOWN, NH 03275

109-019
JUSTINE CURRIER
C/O SHAKES & SPICES
18 MAPLE STREET
ALLENSTOWN, NH 03275

Google

ALTERNATIVE - 1

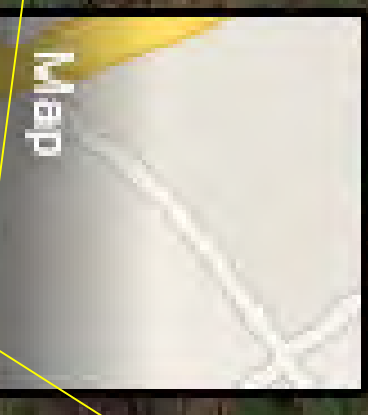


HAIGHT ENGINEERING, PLLC
CIVIL ENGINEERS
P.O. BOX 1166, 181 WATSON ROAD
DOVER, NEW HAMPSHIRE
603.750.4266. FAX 603.749.7348



109-0169
JUSTINE CURRIER
C/O SHAKES & SPICES
18 WARE STREET
ALLENSTOWN, NH 03275

109-0192-012
SOUTH COUNTY PROPERTIES
C/O VOLUME INC.
240 WAREY ROAD
MAUNTING, NH 03275



109-036
RATED ALLENSTOWN
C/O WTE AID CORP
PO BOX 3165
ALLENSTOWN, NH 03275

109-0171
47 ALLENSTOWN
BLINDERS

108-003
DETRONIC TISSING, INC
C/O BETTI MEAL TV COOR
125 HERRICK DRIVE, SUITE 101
NEW ROSE, NH 03275

109-0172
TOWN OF ALLENSTOWN
PHILOPE STREET
ALLENSTOWN, NH 03275

CONCRETE PAD
WITH ADA TACTILE MAT

ADDITIONAL
RECESSION SIGN

5'-0" WIDE
LASTIC GROESWALK

109-032
WARREN GROUP INC
C/O BIRSE WARETT, INC
PO BOX 232
ALLENSTOWN, NH 03275

109-025
MICHAEL & JEROME CORP
36 KIMBERLY LANE
ALLENSTOWN, NH 03275

5' WIDE
BITUMINOUS SIDEWALK

PAINTED - GEOMETRIC

108-005
PHILOPE ROAD & GRAVEL LTD INC
PO BOX 222
ALLENSTOWN, NH 03275

109-026
DAILY PROPERTIES, LLC
48 BARRETT STREET
ALLENSTOWN, NH 03275

109-027

109-022
SCOTTSTAR & SANDRINA DEBARTO
54 KORN WORKS ROAD
ALLENSTOWN, NH 03275

109-021
HOLLEN AC JT VESTURE TRUST
STEPHEN HYNES TRUSTEE
1-A FARMWOOD DRIVE
ALLENSTOWN, NH 03275

109-018
JUSTINE CURRIER
C/O SHAKES & SPICES
18 WARE STREET
ALLENSTOWN, NH 03275

109-019
JUSTINE CURRIER
C/O SHAKES & SPICES
18 WARE STREET
ALLENSTOWN, NH 03275

Google

ALTERNATIVE - 2



HAIGHT ENGINEERING, PLLC
CIVIL ENGINEERS
P.O. BOX 1166, 181 WATSON ROAD
DOVER, NEW HAMPSHIRE
603.750.4266. FAX 603.749.7348



108-036
RATED ALLENSTOWN, PA
C/O RITE AID CORP
PO BOX 3165
ALLENSTOWN, PA 17110

109-017
47 ALLENSTOWN LLS
55 GRANITE
ALLENTOWN, PA 18101

109-024
TOWN OF ALLENSTOWN
POLICE DEPARTMENT
18 SOUTH STREET
ALLENSTOWN, PA 18101

109-049
JUSTINE CURRIER
C/O SHAKES SERVICES
18 WARE STREET
ALLENSTOWN, PA 18101

109-022
SOUTH COUNTY PROPERTIES
C/O VOLUME INC
240 WAREY ROAD
MADRID, NY 13327

108-003
DETROIT TV, INC, INC
C/O DETTIT MEAL TV CO
125 HERRICK SUITE 101
NEW ROSE, NY 13365

109-032
WARREN GROUP LLC
C/O BIRSE WAREHT, INC
PO BOX 232
ALLENSTOWN, PA 18101

109-025
MICHAEL & JEROME CORP
36 KIMBERLY LANE
ALLENSTOWN, PA 18101

109-026
DAVEY PROPERTIES, LLC
16 BARRETT STREET
ALLENSTOWN, PA 18101

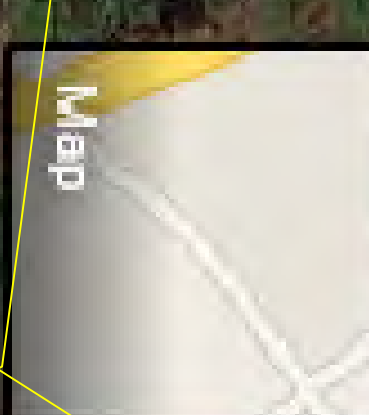
108-005
PICKARD SAND & GRAVEL CO, INC
PO BOX 222
ALLENSTOWN, PA 18101

109-023
SCOTTSTAR & SANDORA, INC
24 KRON WORKS ROAD
ALLENSTOWN, PA 18101

109-021
HOLLEN AC JT TRUST
STEPHEN HYNES TRUSTEE
1-A FARMWOOD DRIVE
ALLENSTOWN, PA 18101

109-018
JUSTINE CURRIER
C/O SHAKES SERVICES
18 WARE STREET
ALLENSTOWN, PA 18101

109-019
TOWN OF ALLENSTOWN
114 WARE STREET
ALLENSTOWN, PA 18101



Google

ALTERNATIVE - 3



HAIGHT ENGINEERING, PLLC
CIVIL ENGINEERS
P.O. BOX 1166, 181 WATSON ROAD
DOVER, NEW HAMPSHIRE
603.750.4266. FAX 603.749.7348