

STONEFIELD

May 31, 2023

South Orange Maplewood School District
Attn: Eric Burnside
School Business Administrator / Board Secretary
525 Academy Street
Maplewood, NJ 07040

**RE: Hazardous Routes Evaluation – Intersection Supplement
Township of South Orange and Township of Maplewood, Essex County, New Jersey
SE&D Job No. RUT-220523**

Dear Mr. Burnside,

Stonefield Engineering and Design, LLC (“Stonefield”) has prepared this evaluation to determine the safety of the fourteen routes for students within South Orange and Maplewood. The roadways were selected as the roadways with the highest traffic volumes, the busiest intersections to cross, and the most likely roadways to be traversed by students.

Methodology

On December 29, 2022, and January 5, 2023, February 3, 2023, February 8, 2023, February 27, 2023, and March 8, 2023 our office conducted a study to determine the safety for school aged pedestrian along various roadways throughout Maplewood and South Orange. Included within this study was observations both during periods when students were present walking, as well as when students were not present to understand the characteristics of the roadways from a driver and pedestrian point of view. Meetings were held with South Orange Police Department on March 29, 2023 and April 6, 2023 and with the Maplewood Police Department on April 6, 2023 and April 20, 2023 to elicit feedback and on-the-ground knowledge of the roadways studied, discuss crossing guard staffing, and share with earlier versions of this report. Accident data and traffic data was collected from the local police departments as well as NJDOT databases for the roadway studied.

An evaluation of these intersections was conducted to determine the safety of students crossing potentially hazardous roadways when traveling to their schools. We utilized 10 standard safety criteria for determining if the intersection is considered hazardous or not. The criteria included the presence of the following along the roadway; Roadway Volumes, Crossing Type, Roadway Speeds, Existence and Adequate Sidewalks, Sight Distance Concerns, Bridges / Overpasses, Train Tracks, Accident History, and Crossing Busy Roads / Highways. As part of the evaluation pedestrian infrastructure that was present, such as Rapid Flashing Beacons, High Visibility Crosswalks, Pedestrian Crossing Warning Signs, Traffic Signals, Pedestrian Beacons and Crossing Guards were noted.

This intersection by intersection analyses is a supplement to the earlier evaluation which looked at the routes on a corridor level. Specific intersections or approach legs of intersections may be deemed to be hazardous within this analyses, but alternative non-hazardous routes may and likely exist. This supplement has been developed to help identify where alternative routes should be considered. To avoid confusion the numbering of the tables within this analyses continues from the previous hazardous routes corridor analyses.

TABLE 15A – Prospect Street (South Orange Avenue to Irvington Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
South Orange Avenue	Signal	No	Yes, it is hazardous to cross South Orange Avenue at this location. We would recommend students to cross South Orange Avenue at Scotland Road/Valley Street. Crossing of Prospect Street is not Hazardous.
Irvington Avenue	Signal	No	Yes this intersection has pedestrian accident history, we recommend a crossing guard at this location as it is considered hazardous.

TABLE 15B – Prospect Street (Irvington Avenue to Parker Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Milligan Place	Side Street Stop Control	No	No
Second Street	Side Street Stop Control	No	No
Kilburn Place	Side Street Stop Control	No	No
Third Street	Side Street Stop Control	No	No
Village Road	Side Street Stop Control	No	No
Fourth Street	Side Street Stop Control	Yes	No
Montague Place	Side Street Stop Control	No	No
Fifth Street	Side Street Stop Control	No	Yes, Crossing Prospect at this location is Hazardous, alternative routes do exist at Montague Place, Baldwin Road
Garfield Place /Tichenor Avenue	Side Street Stop Control	No	Yes, Crossing Prospect at this location is Hazardous, alternative routes do exist at Montague Place, Baldwin Road
Roland Avenue	Side Street Stop Control	No	Yes, Crossing Prospect at this location is Hazardous, alternative routes do exist at Montague Place, Baldwin Road

Prospect Place/ Baldwin Road	Side Street Stop Control	Yes	No
Sherman Place	Side Street Stop Control	No	Yes, Crossing Prospect at this location is Hazardous, alternative routes do exist at , Baldwin Road, Beach Street
Beach Street	Side Street Stop Control	No	No
Parker Avenue	Signal	Yes	Would be Hazardous without Crossing Guard

TABLE 16A – Parker Avenue (Maplewood Avenue to Valley Street)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Maplewood Avenue	Parker Street under Stop Control		
Dunnell Road	Side Street Stop Control	No	No
Valley Street	Signal	Yes	Would be Hazardous without Crossing Guard

TABLE 16B – Parker Avenue (Valley Street to Clinton Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Kensington Terrace	Side Street Stop Control	No	No
Academy Street	Side Street Stop Control	Yes	High Pedestrian Area, Would be Hazardous without Crossing Guard
Prospect Street	Signal	No	High Pedestrian Area, Would be Hazardous without Crossing Guard
Summit Avenue	Side Street Stop Control	No	Yes, Crossing Parker at this location is Hazardous, alternative routes do exist at , Prospect Street, Richmond Avenue
Richmond Avenue	Side Street Stop Control	No	No
Baldwin Road	Side Street Stop Control	No	No
Norfolk Avenue	Side Street Stop Control	No	Yes, Crossing Parker at this location is Hazardous, alternative routes do exist at, Baldwin Road, Burr Road/Suffolk Avenue
Burr Road/Suffolk Avenue	Side Street Stop Control	No	No
Highland Avenue/Burroughs Way	Side Street Stop Control	Yes	High Pedestrian Area, Would be Hazardous without Crossing Guard
Union Avenue	Side Street Stop Control	No	No
Warren Road	Side Street Stop Control	No	Yes, Crossing Parker at this location is Hazardous, alternative routes do exist at Union Avenue, Hudson Avenue
Hudson Avenue	Side Street Stop Control	No	No

Ball Place	Side Street Stop Control	No	Yes, Crossing Parker at this location is Hazardous, alternative routes do exist at Hudson Avenue and Coolidge Road
Coolidge Road	Side Street Stop Control	No	No
Briarcliff Court	Side Street Stop Control	No	No
Boyden Avenue	Signal	Yes	Would be Hazardous without Crossing Guard
Orchard Road	Side Street Stop Control	No	No
Fernwood Road	Side Street Stop Control	No	No
Peachtree Road	Side Street Stop Control	No	No
Cherry Place	Side Street Stop Control	No	No
Irvington Avenue	Signal	No	Township Boundary, not many school kids present

TABLE 17A – Valley Street (Millburn Avenue to Oakland Road)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Millburn Avenue	Signal	No	Yes
Rynda Road	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at , Pierson Road
Broadview Avenue	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at , Pierson Road
Pierson Road/S. Pierson Road	Signal	Yes	Would be Hazardous without Crossing Guard
Park Avenue	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Pierson Road, Tuscan Road
Sommer Avenue	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Pierson Road, Tuscan Road
Girard Place	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Pierson Road, Tuscan Road
Harvard Avenue	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Pierson Road, Tuscan Road
Tuscan Road	Signal	Yes	Would be Hazardous without Crossing Guard
Baker Street	Signal	Yes	Would be Hazardous without Crossing Guard
Crescent	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Baker Street, Oakview Avenue
Oakview Avenue	Side Street Stop Control	No	No
Park Road	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Oakview Avenue, Oakland Road

Oakland Road	Signal	No	Would be Hazardous without Crossing Guard
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TABLE 17B – Valley Street (Oakland Road to South Orange Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Lincoln Place	Side Street Stop Control	No	No
Edgewood Place	Side Street Stop Control	No	No
Jefferson Avenue	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Edgewood Place and Crowell Place
Crowell Place	Side Street Stop Control	No	No
Parker Avenue	Signal	Yes	Would be Hazardous without Crossing Guard
Hixon Place	Side Street Stop Control	No	No
Arnold Terrace	Side Street Stop Control	No	No
Roland Avenue	Side Street Stop Control	No	No
Lackawanna Place	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Roland Avenue, 5 th Street
5 th Street	Side Street Stop Control	No	No
Massell Terrace	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at 5 th Street, 4 th Street
4 th Street	Side Street Stop Control	No	No
3 rd Street	Signal	Yes	Would be Hazardous without Crossing Guard
2 nd Street	Side Street Stop Control	No	No
1 st Street/ Village Plaza	Side Street Stop Control	No	Yes, Crossing Valley Village Plaza is Hazardous, alternative routes do exist at 1 th Street, South Orange Avenue
South Orange Avenue	Signal	Yes	Would be hazardous without crossing guard

TABLE 18 – Walton Avenue (Jefferson Avenue to South Ridgewood Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Jefferson Avenue	Stop Control	No	Crossing Walton Avenue is not hazardous, crossing Jefferson Avenue at this location would be Hazardous due to vertical curve to the west on Jefferson Avenue. Other routes to cross Jefferson Avenue exist.
Maplewood Avenue	Side Street Yield Control	No	Crossing Walton Avenue is not hazardous, crossing Maplewood Avenue is hazardous due to the lack of sidewalk at long roadway crossing location.
Audley Street	Side Street Stop Control	No	No
Lenox Avenue	Side Street Stop Control	No	No
Thornden Street	Side Street Stop Control	No	No
Edgewood Terrace	Side Street Stop Control	No	No
South Ridgewood Avenue	Side Street Stop Control	No	No

TABLE 19A – South Ridgewood Road (Clinton Avenue to Lenox Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Clinton Avenue	Side Street Stop Control	No*	No
Lenox Place	Side Street Stop Control	No*	No, but no sidewalk along westside of Lenox Place
Ridgewood Terrace/Baker Street	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Curtiss Place	Side Street Stop Control	No*	Yes, vertical curvature of South Ridgewood Avenue north of the intersection limits sight distance, alternative crossing of South Ridgewood Avenue at Baker Street
Highland Place/Hickory Drive	Side Street Stop Control	No*	Yes, horizontal curvature of South Ridgewood Avenue north of the intersection limits sight distance
Woodland Road	Side Street Stop Control	No*	Yes, horizontal curvature of South Ridgewood Avenue

			south of the intersection limits sight distance
Roosevelt Road	Side Street Stop Control	No*	No
Durand Road	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Maryland Road	Side Street Stop Control	No*	Yes, Crossing South Ridgewood Avenue at this location is Hazardous, alternative routes do exist at Durand Road and Euclid Avenue
Euclid Avenue	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Virginia Road	Side Street Stop Control	No*	Yes, Crossing South Ridgewood Avenue at this location is Hazardous, alternative routes do exist at Euclid Avenue and Claremont Avenue
Claremont Avenue	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Jefferson Avenue	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Collinwood Road	Side Street Stop Control	No*	No
Hoffman Street	Side Street Stop Control	No*	No
Arcularius Terrace	Side Street Stop Control	No*	No
De Hart Road	Side Street Stop Control	No*	No
New England Road	Side Street Stop Control	No*	No
St. Lawrence Avenue/Washington Park	Side Street Stop Control	No*	No
Cedar Lane	Side Street Stop Control	No*	No
Audley Street	Side Street Stop Control	No	Yes, Crossing South Ridgewood Avenue at this location is Hazardous, alternative routes do exist at Lenox Avenue
Lenox Avenue	All -Way Stop	Yes	Would be Hazardous without Crossing Guard

* - Roving Crossing Guard along Ridgewood Place in Maplewood

TABLE 19B – South Ridgewood Road (Lenox Avenue to Walton Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Lenox Avenue	All -Way Stop	Yes	Would be Hazardous without Crossing Guard
Thornden Street	Side Street Stop Control	No	No
Winthrop Terrace/Wesley Court	Side Street Stop Control	No	No
West End Road	Side Street Stop Control	No	No
Edgewood Terrace	Side Street Stop Control	No	No
Rynda Road	Side Street Stop Control	No	Yes, Crossing South Ridgewood Avenue at this location is Hazardous, alternative routes do exist at Edgewood Terrace and Walton Avenue
Kingsland Terrace	Side Street Stop Control	No	Yes, Crossing South Ridgewood Avenue at this location is Hazardous, alternative routes do exist at Edgewood Terrace and Walton Avenue
Walton Avenue	Stop Control	No	No

TABLE 19C – South Ridgewood Road (Walton Avenue to South Orange Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Walton Avenue	Stop Control	No	No
W3rd Street	Side Street Stop Control	Yes	No
Conway Court	Side Street Stop Control	No	No
West End Road	Side Street Stop Control	No	No
South Orange Avenue	Signal	Yes	Would be Hazardous without Crossing Guard

TABLE 19D – North Ridgewood Road (South Orange Avenue to Walnut Court)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
South Orange Avenue	Signal	Yes	Would be Hazardous without Crossing Guard
Tillou Road	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Beech Spring Road	Side Street Stop Control	No	Crossing North Ridgewood Road is not hazardous, crossing Beech Springs Road is not recommend, alternative exists on east side of roadway.
Highland Road/Mead Street	Side Street Stop Control	Yes	No
Redmond Road	Side Street Stop Control	No	No
Forest Road	Side Street Stop Control	No	No
Mountain House Road	Side Street Stop Control	No	No
Glenside Road	Side Street Stop Control	No	No
Melrose Place	Side Street Stop Control	No	No
West Montrose Avenue	Side Street Stop Control	No	No
Walnut Court	Side Street Stop Control	No	Yes, crossing North Ridgewood Road is impacted by curvature of Ridgewood Road to the north of the intersection.

TABLE 20A – Wyoming Avenue (Clinton Avenue to South Orange Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Clinton Avenue	Side Street Stop Control	No*	No
Ridgewood Terrace	Side Street Stop Control	No*	No
Curtiss Place	Side Street Stop Control	No*	No
Hickory Drive	Side Street Stop Control	No*	No
Woodland Road	Side Street Stop Control	No*	No
Roosevelt Road	Side Street Stop Control	No*	Would not recommend crossing Wyoming Avenue at this location, alternative routes do exist at Hickory Drive and Durand Road

Sagamore Road	Side Street Stop Control	No*	Would not recommend crossing Wyoming Avenue at this location, alternative routes do exist at Hickory Drive and Durand Road
Durand Road	Side Street Stop Control	No*	No
Claremont Avenue	Side Street Stop Control	No*	No
Collinwood Road	Side Street Stop Control	No*	No
Crestwood Drive/Sunset Terrace	Side Street Stop Control	No*	Yes, lack of sidewalks along west side of the road and crosswalks, pedestrian signage
Evergreen Place	Side Street Stop Control	No*	Yes for crossing Wyoming Avenue
New England Road	Side Street Stop Control	No*	Yes for crossing Wyoming Avenue
Lewis Drive	Side Street Stop Control	No*	Yes for crossing Wyoming Avenue, no sidewalk along west side of the roadway
Woodhill Drive	Side Street Stop Control	No*	Yes for crossing Wyoming Avenue
Cedar Lane	Side Street Stop Control	No*	Yes, for crossing Wyoming Avenue, lack of sidewalks along west side of the road and crosswalks, pedestrian signage
Lenox Avenue	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
West End Road	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
South Orange Avenue	Signal	Yes	Would be Hazardous without Crossing Guard

* - Roving Crossing Guard along Wyoming Avenue Place in Maplewood

TABLE 20B – Wyoming Avenue (South Orange Avenue to Brookwood Road)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
South Orange Avenue	Signal	Yes	Would be Hazardous without Crossing Guard
Overhill Road	Side Street Stop Control	No	Would not recommend crossing Wyoming Avenue at this location, alternative routes do exist at South Orange Avenue
Twin Oak Road	Side Street Stop Control	No	Would not recommend crossing Wyoming Avenue at this location, alternative routes do exist at South Orange Avenue and Tillou Road
Tillou Road	Side Street Stop Control	Yes	No
Beech Spring Road	Side Street Stop Control	No	Would not recommend crossing Wyoming Avenue at this location, alternative routes do exist at Tillou Road
Highland Road	Side Street Stop Control	No	Would not recommend crossing Wyoming Avenue at this location, alternative routes do exist at Tillou Road
Redmond Road	Side Street Stop Control	No	Would not recommend crossing Wyoming Avenue at this location, alternative routes do exist at Tillou Road. Would Recommend Crossing Guard at this Location
Forest Road	Side Street Stop Control	No	Yes for crossing Wyoming Avenue
Blanchard Road	Side Street Stop Control	No	Yes for crossing Wyoming Avenue
Franklin Place	Side Street Stop Control	No	Yes for crossing Wyoming Avenue
Brookwood Road	Side Street Stop Control	No	Yes for crossing Wyoming Avenue

TABLE 21 – Baker Street (Ridgewood Road to Valley Street)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Ridgewood Road	Stop Control	Yes	Would be Hazardous without Crossing Guard
Everitt Place	Side Street Stop Control	No	No
Maplewood Avenue	All Way Stop	Yes	Would be Hazardous without Crossing Guard
Dunnell Road	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Burnet Street	Side Street Stop Control	No	No
Valley Street	Signal	Yes	Would be Hazardous without Crossing Guard

TABLE 22 – Jefferson Avenue (Ridgewood Road to Valley Street)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Ridgewood Road	Stop Control	Yes	Would be Hazardous without Crossing Guard
Brookside Road	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Kendall Avenue	Side Street Stop Control	No	Crossing Jefferson Avenue at this location is Hazardous, alternative routes do exist at Brookside Road
Walton Road/Woodland Road	Side Street Stop Control	No	Crossing Walton Avenue is not hazardous, crossing Jefferson Avenue at this location would be Hazardous due to vertical curve to the west on Jefferson Avenue. Other routes to cross Jefferson Avenue exist.
Maplewood Avenue	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Dunnell Road	Side Street Stop Control	No	Crossing Jefferson Avenue at this location is hazardous, alternative route does exist at Maplewood Avenue
Valley Street	Side Street Stop Control	No	Yes, Crossing Valley at this location is Hazardous, alternative routes do exist at Edgewood Place and Crowell Place

TABLE 23A –Boyden Avenue (Irvington Avenue to Elmwood Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Irvington Avenue	Signal	No	Would be hazardous, but municipal boundary so no school children
William Street	Side Street Stop Control	No	No
Hillcrest Road	Side Street Stop Control	No	No
Garfield Place	Side Street Stop Control	No	No
Parker Avenue	Signal	Yes	Would be Hazardous without Crossing Guard
Ball Terrace	Side Street Stop Control	No	No
Elberta Road	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossings exist north and south of this intersection
Midland Boulevard	Side Street Stop Control	No	No
Elmwood Avenue	Signal	Yes	Would be Hazardous without Crossing Guard

TABLE 23B –Boyden Avenue (Elmwood Avenue to Route 124)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Elmwood Avenue	Signal	Yes	Would be Hazardous without Crossing Guard
Route 124	Signal	Yes	Would be Hazardous without Crossing Guard

TABLE 23C –Boyden Avenue (Route 124 to Evelyn Court)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Route 124	Signal	Yes	Would be Hazardous without Crossing Guard
Tuscan Road	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Brown Street	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Tuscan Road
Harding Street	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Tuscan Road
Newark Way	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Tuscan Road
Hughes Street	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Tuscan Road and Jacoby Street
Jacoby Street	Side Street Stop Control	Yes	Would be Hazardous without Crossing Guard
Menzel Avenue/Gifford Court	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Jacoby Street
Nelson Place	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Jacoby Street
Van Ness Terrace/Troy Court	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Jacoby Street
Hausmann Court	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Jacoby Street
Evelyn Court	Side Street Stop Control	No	No, would not recommend crossing Boyden Avenue, but other alternative crossing exist at Jacoby Street

TABLE 24A –Irvington Avenue (South Orange Avenue to Norman Road)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Academy Street	Side Street Stop Control	No	Would not recommend crossing Irvington Avenue without a Crossing Guard. other alternative crossing exist. Crossing Academy Street is not hazardous
Prospect Street	Signal	No	Yes this intersection has pedestrian accident history, we recommend a crossing guard at this location. This intersection has hazardous.
Cottage Street	Side Street Stop Control	No	No, but would not recommend crossing Irvington Avenue at this location.
Riggs Place/Tichenor Avenue	Signal	No	No, no accident history, but would recommend crossing guard at this location.
Fairview Avenue	Side Street Stop Control	No	No
W Fairview Avenue	Side Street Stop Control	No	No
Ward Place	Signal	No	No
College Place/Waverly Place	Side Street Stop Control	No	No
Lindsley Avenue/Seton Place	Side Street Stop Control	No	No
Wetmore Avenue/Eder Terrace	Side Street Stop Control	No	No
Essex Avenue	Side Street Stop Control	No	No, would not recommend crossing Irvington Avenue, but it is a municipal border so not expected to have school children crossing
Union Avenue	Side Street Stop Control	No	No, would not recommend crossing Irvington Avenue, but it is a municipal border so not expected to have school children crossing
Hudson Avenue	Side Street Stop Control	No	No, would not recommend crossing Irvington Avenue, but it is a municipal border so not expected to have school children crossing

Coolidge Road	Side Street Stop Control	No	No, would not recommend crossing Irvington Avenue, but it is a municipal border so not expected to have school children crossing
Manor Drive/Boyden Avenue	Signal	No	No, would not recommend crossing Irvington Avenue, but it is a municipal border so not expected to have school children crossing
Elsman Terrace/Tuxedo Parkway	Side Street Stop Control	No	No, would not recommend crossing Irvington Avenue, but it is a municipal border so not expected to have school children crossing
Midland Place	Side Street Stop Control	No	No, would not recommend crossing Irvington Avenue, but it is a municipal border so not expected to have school children crossing
Norman Place/Putnam Street	Signal	No	Yes, but it is a municipal border so not expected to have school children crossing

TABLE 24B –Irvington Avenue (Norman Road to Clinton Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Norman Place/Putnam Street	Signal	No	Yes, but it is a municipal border so not expected to have school children crossing
Hillcrest Road	Side Street Stop Control	No	No
Parker Avenue	Signal	No	Yes, but it is a municipal border so not expected to have school children crossing
Franklin Terrace/Clinton Avenue	Side Street Stop Control	No	Yes, but it is a municipal border so not expected to have school children crossing

TABLE 25 –Scotland Road (South Orange Avenue to Randolph Place)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
South Orange Avenue	Signal	Yes	Would be hazardous without a Crossing Guard.
Taylor Place	Side Street Stop Control	No	No, but would not recommend crossing Scotland Road at this location, crossing at South Orange Avenue as an alternative.
Connett Place	Side Street Stop Control	No	No, but would not recommend crossing Scotland Road at this location due to horizontal curvature to the north. Crossing at South Orange Avenue as an alternative.
Comstock Place	One-Way away from Scotland Road	No	No, but would not recommend crossing Scotland Road at this location due to horizontal curvature to the north. Crossing at South Orange Avenue or Ralston Avenue as an alternative.
Ralston Avenue	Side Street Stop Control	No	No
Raymond Avenue	Side Street Stop Control	Yes	No
Turrell Avenue	Side Street Stop Control	No	No
Irving Avenue	Side Street Stop Control	No	No
Harrison Court/Stewart Place	Side Street Stop Control	No	No
Montrose Avenue	Signal	No	No
Thatcher Lane	Side Street Stop Control	No	No
Randolph Place	Side Street Stop Control	No	No

TABLE 26A – Route 510/South Orange Avenue (Glenview Road to Ridgewood Road)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Glenview Road	Signal	No	No, but would not recommend crossing South Orange Avenue at this location
Speir Drive	Side Street Stop Control	No	No, but no crossing of South Orange Avenue
Crest Drive	Side Street Stop Control	No	Yes – but no school children would cross on the south side where the hazardous condition exists
Stone Hill Road	Side Street Stop Control	No	No, but no crossing of South Orange Avenue
Harding Drive	Side Street Stop Control	No	No, but no crossing of South Orange Avenue
Lenox Avenue	Side Street Stop Control	Yes	Would be hazardous without crossing guard
West End Road/Mayhew Drive	Side Street Stop Control	No	No, but no crossing of South Orange Avenue
Wyoming Avenue	Signal	Yes	Would be hazardous without crossing guard
Cumberland Road	Side Street Stop Control	Yes	No
Briar Court	Side Street Stop Control	No	No, but no crossing of South Orange Avenue
Hart Drive/Harmon Road	Side Street Stop Control	No	No, but no crossing of South Orange Avenue
Rynda Road	Side Street Stop Control	No	No, but no crossing of South Orange Avenue
Conway Court	Side Street Stop Control	No	No, but no crossing of South Orange Avenue
Ridgewood Road	Signal	Yes	Would be hazardous without crossing guard

TABLE 26B – Route 510/South Orange Avenue (Ridgewood Road to Grove Road)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Ridgewood Road	Signal	Yes	Would be hazardous without crossing guard
Church Street	Side Street Stop Control	No	No, but prefer crossing South Orange Avenue at Ridgewood or Creek (with Crossing Guard)
Vose Avenue	Signal	No	No
Scotland Road/Valley Street	Signal	Yes	Would be hazardous without crossing guard
Irvington Avenue	No Control	No	Yes, crossing should be made at Scotland Road/Valley Street
Academy Street	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing should be done Scotland Road/Valley Street, Crossing Academy Street is not hazardous
Prospect Street	Signal	No	Yes, it is hazardous to cross South Orange Avenue at this location. We would recommend students to cross South Orange Avenue at Scotland Road/Valley Street. Crossing of Prospect Street is not Hazardous.
Cottage Street	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Cottage Street is not hazardous
Grove Road	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Grove Road is not hazardous

TABLE 26C – Route 510/South Orange Avenue (Grove Road to Holland Road)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Grove Road	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Grove Road is not hazardous
Riggs Place	Signal	No	No
Park Place	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Park Place is not hazardous
Fairview Avenue	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Fairview Avenue is not hazardous
Fielding Court	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Fairview Avenue is not hazardous
Ward Place/University Court	Signal	No	Crossing South Orange Avenue is Hazardous without a crossing guard.
Elm Court	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Elm Court is not hazardous
Warren Court	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Warren Court is not hazardous
Turrell Avenue/Centre Street/Seton Drive	Signal	Yes	Would be hazardous without a crossing guard
S Centre Street	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing S Centre Street is not hazardous
Kingman Road	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Kingman Road is not hazardous
Stanley Road	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing Kingman Road is not hazardous
Montrose Street/Holland Road	Side Street Stop Control	No	Crossing South Orange Avenue is hazardous, crossing

			Kingman Road is not hazardous
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TABLE 27A – Ward Place (Montague Place to Irvington Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Montague Place	Side Street Stop Control	No	No
Village Road	Side Street Stop Control	No	No
Irvington Avenue	Signal	No	No

TABLE 27B – Ward Place (Irvington Avenue to South Orange Avenue)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
South Orange Avenue	Signal	Yes	Crossing South Orange Avenue is hazardous without a crossing guard.
Seton Drive/Gardner Avenue	Side Street Stop Control	No	No
South Orange Avenue	Signal	No	Crossing South Orange Avenue is Hazardous without a crossing guard.

TABLE 28 – Centre Street (South Orange Avenue to Finlay Place)

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
South Orange Avenue	Signal	Yes	Would be hazardous without a crossing guard
Irving Avenue	Side Street Stop Control	No	No
Montrose Avenue/Hamilton Road	Side Street Stop Control	No	No
Hartford Court	Side Street Stop Control	No	No
Warwick Avenue/Patricia Court	Side Street Stop Control	No	No
Stirling Avenue/Finlay Place	Side Street Stop Control	No	No

TABLE 29 – Additional Intersections Previously Deemed Hazardous

Intersection	Intersection Type	Crossing Guard Present	Hazardous?
Vose Avenue and W Montrose Avenue	Stop Controlled on Vose Avenue approach	No	Yes, crest vertical curve limits sight distance for drivers when going over railroad. There have been incremental improvements to the intersection and sidewalks over the past 15 years, but I would still consider this hazardous
Raymond Avenue and Scotland Road	Stop Controlled on the Raymond Avenue approach	Yes	Yes, this may still be considered as hazardous. Over the last 15 years improvements have been made to the crossing including the introduction of speed tables and pedestrian activated warning signs. There is a crossing guard to assist crossings at this location, but based on consult with the police department we can concur with this being considered part of a hazardous route.

Please do not hesitate to contact our office if there are any questions.

Best regards,



Matthew J. Seckler, PE, PP, PTOE
Stonefield Engineering and Design, LLC