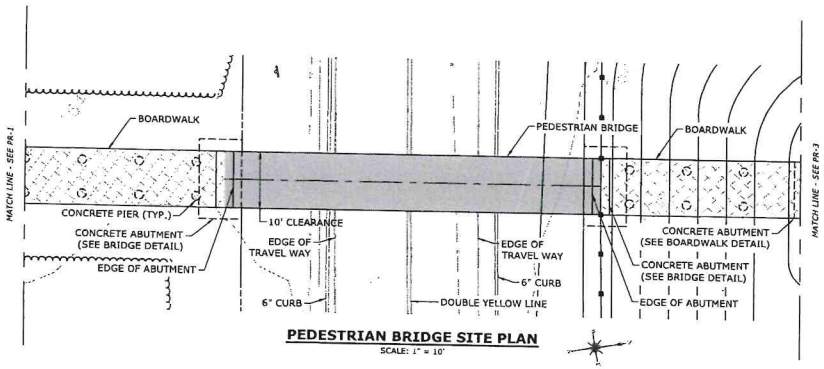
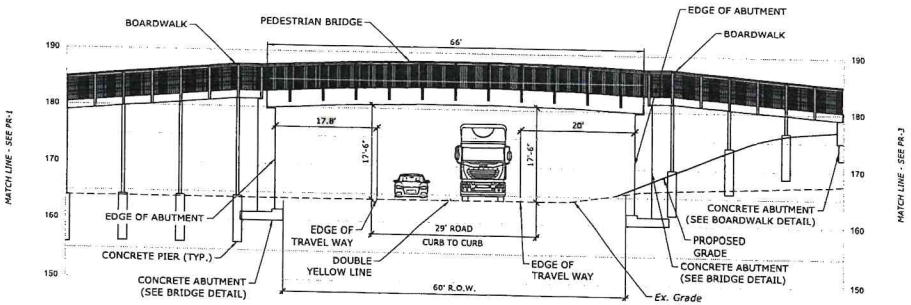



**PEDESTRIAN BRIDGE SITE PLAN**
SCALE: 1" = 10'




**PEDESTRIAN BRIDGE SITE ELEVATION**
SCALE: 1" = 10'



| Design Speed | Design Year ADT | Cuts or Fills (Negative Shelf) | | Cuts or Fills (Positive Shelf) | |
|---|---|---|---|---|---|
| | | 1:6 or flatter | 1:4 | 1:4 | 1:6 or flatter |
| 40 mph or less | Under 750 | 7 | 7 | 7 | 7 |
| | 750-1500 | 10 | 12 | 10 | 10 |
| | 1500-6000 | 12 | 14 | 12 | 12 |
| | Over 6000 | 14 | 16 | 14 | 14 |
| 42 45 – 50 mph | Under 750 | 10 | 12 | 8 | 10 |
| | 750-1500 | 14 | 16 | 12 | 14 |
| | 1500-6000 | 16 | 20 | 14 | 16 |
| | Over 6000 | 20 | 24 | 18 | 20 |
| 55 mph | Under 750 | 12 | 14 | 10 | 10 |
| | 750-1500 | 16 | 20 | 14 | 16 |
| | 1500-6000 | 20 | 24 | 16 | 20 |
| | Over 6000 | 22 | 26 | 20 | 22 |
| 60 mph | Under 750 | 16 | 20 | 12 | 14 |
| | 750-1500 | 20 | 26 | 16 | 20 |
| | 1500-6000 | 26 | 30 | 18 | 24 |
| | Over 6000 | 30 | 30 | 24 | 26 |
| 65 – 70 mph | Under 750 | 18 | 20 | 14 | 14 |
| | 750-1500 | 24 | 28 | 18 | 20 |
| | 1500-6000 | 28 | 30 | 22 | 26 |
| | Over 6000 | 30 | 30 | 26 | 28 |

Notes:

1. All distances are measured from the edge of traveled way. See Section 13-2.02, Comment #5.
2. See Section 13-2.02, Comment #2, for application of clear zone criteria on fill slopes.
3. See Figure 5H for illustration of a cut section with a positive shelf. See Section 13-2.02, Comment #3, on cut slopes and ditch sections.
4. The values in the table apply to all facilities both urban and rural. See Section 13-2.02, Comment #4, for utility poles in urban areas.

**RECOMMENDED CLEAR ZONE DISTANCES (ft)**

**Figure 13-2A**

SLR
99 REALTY DRIVE
CHARLESTON, SC 29413
843.571.7373
SLRCONSULTING.COM

| DESCRIPTION | DATE | BY |
|---|---|---|

PEDESTRIAN BRIDGE SKETCH
CHOATE ROSEMARY HALL
CHRISTIAN STREET
WALLINGFORD, CONNECTICUT

| BK | MW | KP |
|---|---|---|
| DESIGNED | DRAWN | CHECKED |

AS NOTED
SCALE
FEBRUARY 24, 2025
DATE
141.12960.00041
PROJECT NO.
06 OF 13
SHEET NO.
BR-1
SHEET NAME


| | |
|---|---|
| SHEET NO. | WS-1 |
| PROJECT NO. | 12960.00041 |
| DATE | FEBRUARY 24, 2025 |
| SCALE | 1"=30' |
| DRAWN | BK |
| DESIGN | SB |
| CHECKED | DLO |

**SITE PLAN - LAYOUT AND LANDSCAPING - WORKSHEET #1**

CHOATE ROSEMARY HALL

CHRISTIAN STREET
WALLINGFORD, CONNECTICUT

| DESCRIPTION | DATE | BY |
|---|---|---|
| | | |

SLR
99 REALTY DRIVE
CHESHIRE, CT 06410
203.271.1773
FILECONSULTING.COM

**SLR International Corporation**
99 Realty Drive, Cheshire, Connecticut, 06410

February 25, 2025

Kevin Pagini, AICP, Town Planner
Alison Kapushinski, P.E. Town Engineer
Town of Wallingford
45 South Main Street
Wallingford, CT 06492

SLR Project No.: 12960.00041

**RE: Choate Pedestrian Bridge**
**Planning Zoning Commission (PZC) Permit Submission – Stormwater Management Summary**
**Pedestrian Bridge Over Christian Street**
**Wallingford, Connecticut**

Dear Kevin and Alison,

Choate Rosemary Hall (Choate) has made multiple pedestrian improvements on campus and in the Town of Wallingford's right-of-way (ROW) over the last several years and the current site plan revision application for a proposed timber pedestrian bridge over Christian Street continues that strategy to make travel along Christian Street safer for drivers and pedestrians alike, decreasing pedestrian volume of at-grade crossings. The bridge will be located just east of Rosemary Lane and will provide a complete separation of pedestrian and vehicle traffic connecting existing parking areas on the north side of Christian Street to the athletic quad facilities on the south side of Christian Street. Many of the Choate students and staff, as well as visiting parents, and other guests walk to or park in the Colony Hall lot and then need to cross Christian Street to access the athletic fields and other facilities to the south. Additionally, the Choate facilities are frequently used by town residents, community organizations, and local youth sports teams.

The project, as designed, creates a linear pedestrian connection starting at the Colony Hall parking lot with a new pedestrian crosswalk at Rosemary Lane, connecting to an asphalt sidewalk extending south to a wooden boardwalk connected to the timber bridge. A pervious asphalt access drive and cul-de-sac is also proposed adjacent to the asphalt sidewalk, which will provide improved access to the grass overflow parking lot to the east. Crossing over the new Christian Street bridge, pedestrians will walk down a timber boardwalk extending south to bring them to grade near the track and handicap parking area for the athletic quad.

The design of the new pedestrian access takes into consideration low impact development (LID) principles by disconnecting impervious surfaces and incorporating pervious asphalt pavement. In this configuration, stormwater runoff from the improved surfaces will act very similar to existing conditions. The elevated timber bridge and boardwalk allow water to pass through or runoff to the side of the pedestrian path to allow for natural infiltration into the vegetated surface below, or in the case of the bridge, onto the pavement below following the existing drainage paths. The asphalt sidewalk is pitched to either drain to the vegetated surfaces on either side, or

to the proposed pervious asphalt access drive. Either surface will allow for natural infiltration of surface runoff into the underlying soils similar to existing conditions.

The only drainage improvements proposed follow LID principles promoting infiltration through disconnecting impervious cover. These consist of an underdrain along the low side of the pervious asphalt driveway that connects to an 8-inch cross culvert under the driveway where it connects to Rosemary Lane. This cross culvert is necessary to convey the existing grass swale along the east side of Rosemary Lane under the access drive and sidewalk to maintain the existing drainage patterns. As designed, this LID approach will maintain existing peak flows and water quality of runoff from the area similar to existing conditions with no substantial deviation from the existing stormwater runoff patterns.

If you have any questions regarding the information above, please feel free to contact me at (203) 271-1773.

Regards,

**SLR International Corporation**

**Darin Overton, PE**
US Manager of Civil & Structural Engineering
doverton@slrconsulting.com

cc: Patrick Durbin, Chief Financial Officer – Choate Rosemary Hall
Dennis A. Ceneviva, Esq. – Ceneviva Law Firm LLC

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