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Structure-mounted solution from AIL Sound Walls helps mitigate traffic noise from Virginia gaming resort

The Rose Gaming Resort in Dumfries, Virginia, is a 175,000 sf venue featuring 1,650 games, eight bars and restaurants, a hotel with over 100 rooms and event space, 2,500 parking spaces and 62 acres of greenspace with a seven-acre public park.



Project at a glance:

Name: The Rose Gaming Resort

Location: Dumfries, VA

Owner: The Rose Gaming Resort / Churchill Downs

Consultant: Morris & Ritchie Associates

General Contractor: B&S Site Development

Project Contractor: Terra Constructs

Product: Tuf-Barrier Reflective

Sector: Commercial

Application: Structure-Mounted Sound Walls

Dimensions: Length 2,067', Average Height 13'

Installation Time: Four weeks



With all this activity, the resort wanted to mitigate the traffic noise along its lengthy entrance road to the complex. The project team selected a Tuf-Barrier (Reflective) from AIL Sound Walls and our lightweight PVC system was able to navigate a number of installation complexities along the 2,067' run.

Complicated layout and attachment requirement

The noise barrier wall follows a constant slope up and the contractor on the project, Terra Constructs, had designed a keystone block retaining wall with a moment slab and traffic barrier that our sound wall would connect to. We designed custom/project-specific base plates with slotted holes to allow for flexibility in field installation. We also coordinated fabrication and delivery of their steel posts for the retaining wall construction.

We worked very closely with the General Contractor, B&S Site Development; the Project Contractor, Terra Constructs; and the Consultant, Morris & Ritchie Associates, to develop the overall design concept. All three designs (retaining wall, traffic barrier, sound wall) had to work well with each other, so it was challenging to bring it all together.

Our project lead at Terra was very happy with our performance and has become an AIL Sound Walls partner in the area.



Get wall-to-wall success with our structure-mounted sound barrier solutions

AIL Sound Walls offers a diverse selection of structure-mounted solutions that are perfect for all types of applications — such as bridge rails or parapets, crash barriers and retaining walls — where extra weight is a concern. Our in-house engineering capability with multiple systems ensures project success in all types of structure-mounted sound barrier solutions.

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