

KEYNOTES

- 1 Park Entrance and Exit
- 2 Two-lane Approach Road
- 3 Two-lane Crescent Road
- 4 One-way Return Road
- 5 Emergency Road
- 6 Pedestrian Trail
- 7 Parking Area
- 8 Overlook with Seating
- 9 Family Overlook Mound with Seating
- 10 Seating at Location that was the Temporary Memorial
- 11 Seating at Sacred Ground Plaza
- 12 Crescent Walkway with Groves
- 13 Crescent Walkway through Wetlands
- 14 Portal
- 15 Visitor Center
- 16 Memorial Mission Statement Inscribed in Glass
- 17 Wall with Inscribed Names
- 18 Sacred Ground Family Entry
- 19 Hemlock Grove
- 20 Sacred Ground Plaza
- 21 Seating for Families
- 22 Flags at Portal Drop-off
- 23 Family Parking

PLANT TYPES

- P1 Gateway Tower Planting
- P2 Crescent Alleé
- P3 Crescent Groves
- P4 Portal Plaza Planting
- P5 Planting at Visitors Center Parking
- P6 Planting at Sacred Ground Parking
- P7 Wildflower/grass Mix at Bowl Meadow
- P8 Wildflower/grass Mix at Tower
- P9 Screen Planting Evergreen and Deciduous Mix
- P10 Trees at Sacred Ground Entrance
- P11 Flower/grass Mix at Sacred Ground
- P12 Slope Planting at Sacred Ground
- P13 Successional Meadow Mix
- P14 Tree and Shrub Planting

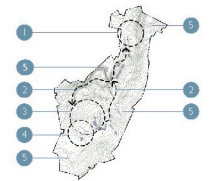


TOWER OF VOICES

PROJECT TEAM

- | | |
|----------------------------|---------------------|
| Paul Mundoch Architects | Architect |
| Nelson Byrd Woltz | Landscape Architect |
| RBA Partners | Civil Engineer |
| Sato & Soppana | Structural Engineer |
| Davis Langston | Cost Estimator |
| George Sexton Associates | Lighting Designer |
| Clayton Lee Rugh | Ecologist |
| Paulynn Cue | Graphic Designer |
| Alexander Novak-Zemplinski | Illustrator |
| Design Models, Inc. | Model Maker |
| Steve Payne | Model Photographer |

SITE PLAN



1 GATEWAY (TOWER OF VOICES)

Tall enough to be seen from the highway, the Tower of Voices heroically marks the entry to and exit from the Park. Set on a planted mound in a clearing within resonating rings of White Pines, the Tower houses forty white aluminum wind chimers. The continuing songs of chimers in the wind celebrate a living memory of those who are honored. The outside of the curved concrete tower wall is finished with white glass mosaic tiles to create a reflective, ephemeral quality and blue plaster inside to evoke the sky. At night, the Tower interior is evenly grazed with light and the exterior illuminated as a beacon. Near the Tower there is a parking, public restrooms and an information/orientation kiosk.

2 APPROACH/RETURN

Visitors are able to drive or bike through the site on the two-lane Approach Road, matching the route of the existing Hual Road to the entrance of the Bowl. Pedestrian trails, originating from the Tower, lead through the woods at the site's western edge and at higher elevations to the east overlooking the Park. A one-lane Return Road allows visitors elevated views of the Tower to the north and views back to the Bowl. Areas of the mining landscape, especially with higher soil and water toxicity, are treated with phytoremediation using plants such as poplars, sunflowers and mustards. The healing of the landscape prepares the visitor, as a metaphor, for the emotional healing of the memorial. Existing stigmas are removed but components, like their buckles, are preserved to mark overlook locations.

3 BOWL (CRESCENT OF EMBRACE)

Through the gesture of embrace, a curving landform formally defines the edge of the Bowl. The Crescent of Embrace enhances the form and monumental scale of the Bowl to commemorate the heroic actions of the passengers and crew of Flight 93. An alleé of Red Maple trees gently descends around the Bowl, crossing the wetlands; to the focal point of the Bowl, the Sacred Ground. Behind the walkway occur forty groves of Sugar and Red Maples and a ring road that leads to parking near the Sacred Ground. Visitors can formally start their walk along the Crescent by ascending a ramp that allows views into the Visitor Center. Pedestrian trails through the Bowl offer a variety of entrance and exit routes to and from the Sacred Ground. Lighting at night supports the Crescent through recessed lights in the radiating markers that face the Bowl. Benches along the alleé have a recessed source to illuminate the path and each of their radiating extensions through the groves are terminated at the ring road with a pole-mounted downlight.

4 SACRED GROUND

The Sacred Ground is the final resting place of the passengers and crew of Flight 93 and holds the everlasting memory of their courage. A black slate plaza and sloped wall form a front to the Sacred Ground. From here the public can view into the Crash Site. Within the sloped wall, in front of benches at each end of the plaza, are niches to accommodate remembrances from visitors. To prevent public intrusion, a vertical drop of 12 feet occurs behind the sloped wall. The lower area then slopes up to the edge of the Sacred Ground field. The field is planted with low maintenance grasses; bulbs that include White Crocus, blooming white in Spring and Fall, Camassia, that blooms blue during Memorial Day Resurrection Flower that blooms white or red in late Summer and Fall, and the perennials Rudbeckia, which blooms yellow-orange in September, and Indian Blanket Flower, blooming red in Summer.

5 PERIMETER/VIEWSHEED

Existing tree coverage along the Park perimeter is preserved to maintain views to and from the Memorial Expressions and to help decrease disturbance from outside the Park. This treatment, enjoyed along trails at the eastern and western perimeter, encourages appreciation of the site as part of the unique landscape of the Laurel Highlands. The northern perimeter includes woodland buffers to preserve a planted context for the Park entrance. The southern viewsheed preserves the rural backdrop to the Hemlock Grove and Sacred Ground.



VIEW TO PORTAL FROM SACRED GROUND WITH GATE OPEN



100 FT. 500 FT. 1,500 FT.

YEAR 0
SITE CONDITION 2001

YEAR 10
SITE CONDITION 2011

YEAR 75
SITE CONDITION 2076