

IV. DESCRIPTION OF THE UNDERTAKING'S EFFECT ON HISTORIC PROPERTIES

This section contains a description of the undertaking's effect on historic properties. The results of each are described below.

A. W. C. Fountain Agricultural Complex (CRS # 01689)

Figure 10 shows the proposed undertaking at the W. C. Fountain Agricultural Complex. In consultation with the DE SHPO, the Little Heaven GSI Project was found to have "no effect" on the W. C. Fountain Agricultural Complex. None of the Criteria of Adverse Effect applied to this property as a result of implementing the Preferred Alternative. The entire project undertaking will not alter the physical characteristics (directly or indirectly) that qualify this property for listing in the National Register. Based on the property's defining characteristics, the transportation elements will only occur near and are separated from the property in such a way that they cause no effect. As a result, discussions on this property with respect to the undertaking will not be discussed any further.

Near the front of the driveway accessing this property, existing Barratt's Chapel Road will remain the same. Barratt Chapel Road will be located further north and continue to its proper realignment junction with SR 1 and Skeeter Neck Road. Existing Barratt's Chapel Road will be cul-de-sac beyond the property's location near the eastern end. The main and contributing agricultural features are remote from the road from both Barratt's Chapel Road and SR 1. The property is essentially adjacent to the undertaking.

66-dBA Audible Contour

— Year 2004 No-Build

— Year 2030 No-Build

— Year 2030 Build (Preferred Alternative)

NOTE: Dashed Lines indicates equal value noise contours.



Minimization

1. Alignment of both SR 1 and existing Barratt's Chapel Road remains unchanged in front of the W. C. Fountain Agricultural Complex and no fee right-of-way is required for this project.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 100 200 300 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION		CONTRACT	BRIDGE NO.	-
			24-122-02	DESIGNED BY:	SFP		
			KENT	CHECKED BY:	WFC		

Figure 10
W. C. Fountain
Agricultural Complex

B. Barratt's Chapel and Cemetery (CRS # K-103)

Figure 11 shows the proposed undertaking at the Barratt's Chapel and Cemetery property. There are no right-of-way acquisitions to the Barratt's Chapel and Cemetery property. The Preferred Alternative would not result in any physical encroachment on the property.

Generally, the Little Heaven grade separated intersection improvements involve resurfacing and striping of the existing roadway and shoulder at this location. There are temporary easements for driveway and egress improvement. Per the request of the Barratt's Chapel personnel, access into the Barratt's Chapel would be improved by shoulder adjustments. This would require approximately 2 feet of additional pavement widening along the existing shoulder. Also, several roadside trees (non-historic) would be cut which lie within the existing clear zone.

In addition, a commemorative bell (non-historic and non-contributing elements), entrance sign, and an existing state road marker would have to be set back from its existing location. Because of their existing close proximity to the free flowing vehicular movement, clear zone safety requirements warrant their removal or adjustment. The commemorative bell, entrance sign, and marker conveying the historic significance of Barratt's Chapel will simply be relocated a few feet outside of the existing right-of-way and onto the Barratt's Chapel property to the east of their existing location.

C. Jehu Reed House (CRS # K-137)

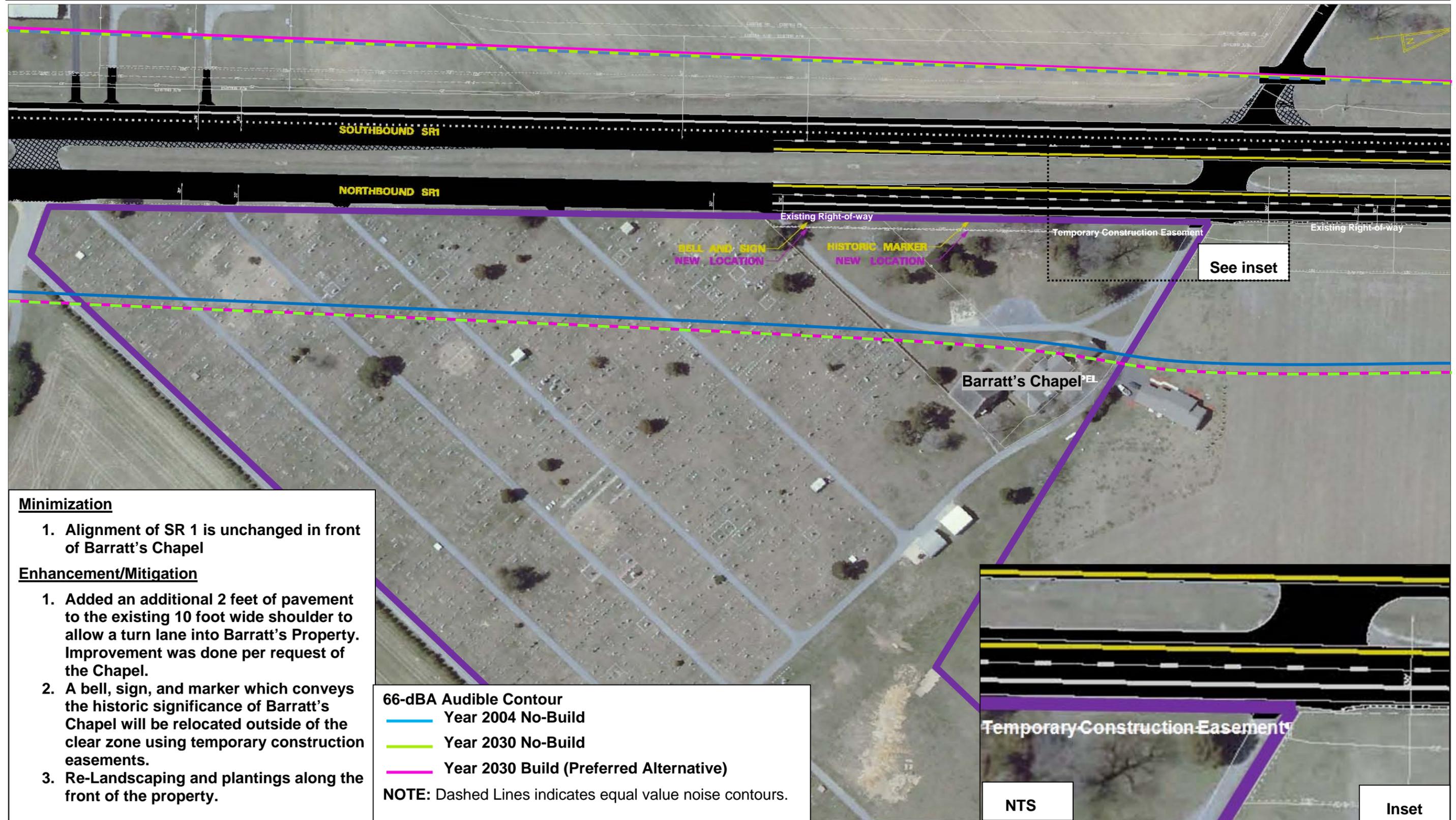
Figure 12 shows the proposed undertaking at the Jehu Reed House property. The Preferred Alternative for the Little Heaven grade separated intersection Project there are no right-of-way acquisitions or easements that would physically encroach on the property. However, an elevated roadway would be constructed near the front of the property. From the roadway's visual perspective, this action would clearly have visual and audible concerns beyond the current surrounding conditions. Existing SR 1 southbound will be converted into a two lane service road for local access, while the main line of SR 1 would be elevated over 20 feet.

D. Thomas James House (CRS # K-2686)

Figure 13 shows the proposed undertaking at the Thomas James House property. The undertaking of the Preferred Alternative would require that a 20' wide strip of right-of-way along the length of the property fronting Clapham Road. This calculates to approximately 0.14 acres of take or converted use of the property. These changes to the front of the property will result in removal of strip vegetation and some mature trees due to the need to widen the roadway to provide a merge lane for northbound traffic. The NRHP eligibility evaluation concluded that the dwelling is NRHP-eligible under Criteria C for architecture; the 2.06 acre property grounds are not specifically eligible under any criteria.

E. Mt. Olive Colored School/Mt. Olive School (CRS # K-2685)

Figure 14 shows the proposed undertaking at the Mt. Olive Colored School/Mt. Olive School property, which fronts Clapham Road to the west, existing SR 1 to the east and Mulberrie Point Road to the south. The proposed undertaking of the Preferred Alternative would require the following right-of-way acquisitions to the property: a 50' wide strip of right-of-way along the length of the property fronting Clapham Rd (0.21 acres); an area adjacent to SR 1 (0.28 acres) and an area as a Permanent Easement (0.78 acres) for a total of approximately 1.27 acres of the property. Based on improvements in this area, uncontrolled access points (which raise a safety issue), would be corrected throughout the grounds on this property and on adjacent lands. Drainage and a sewer line will also be implemented, adjusted, and re-graded along the property. However, there are no impacts to the school building itself.



Minimization

1. Alignment of SR 1 is unchanged in front of Barratt's Chapel

Enhancement/Mitigation

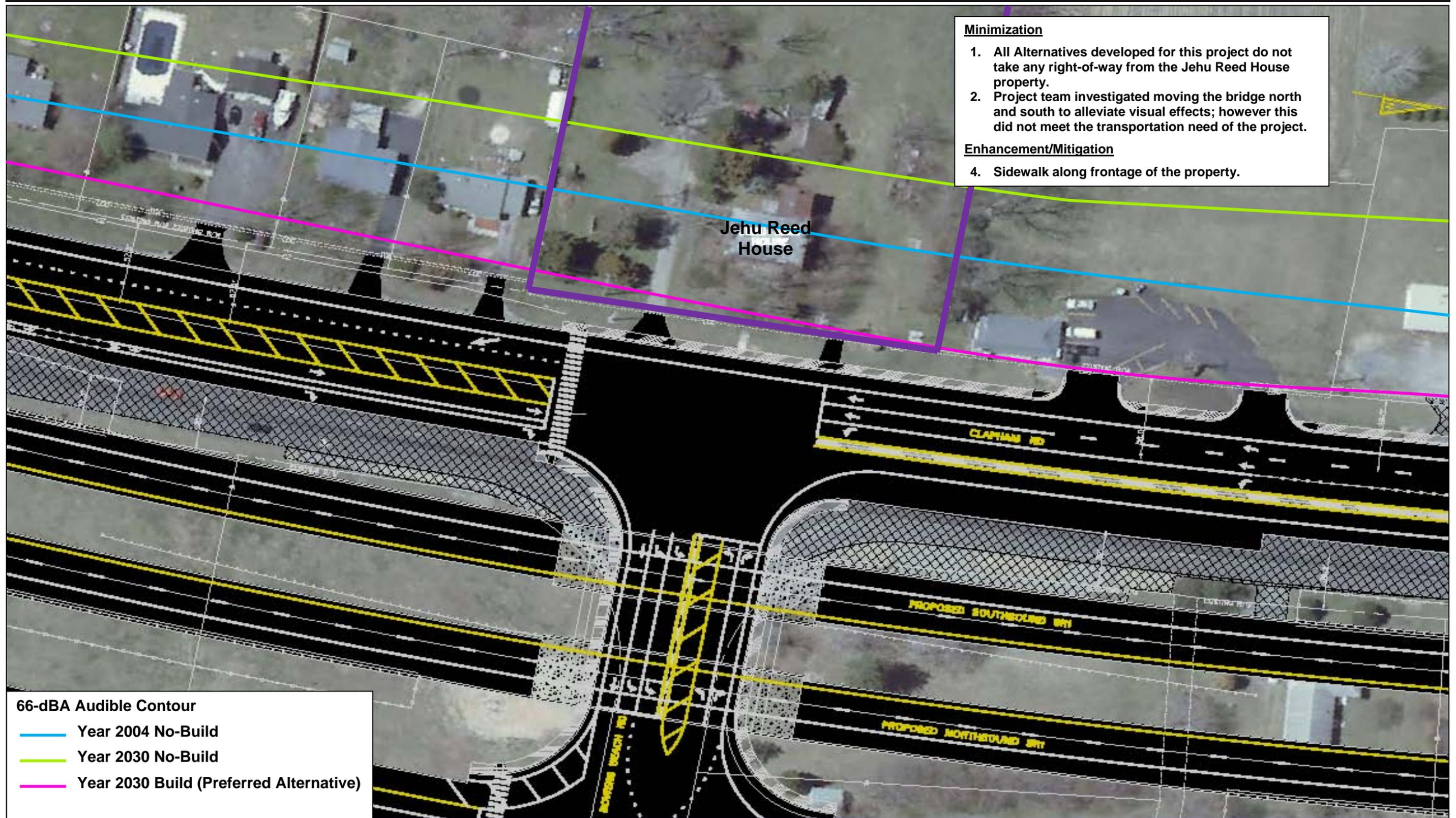
1. Added an additional 2 feet of pavement to the existing 10 foot wide shoulder to allow a turn lane into Barratt's Property. Improvement was done per request of the Chapel.
2. A bell, sign, and marker which conveys the historic significance of Barratt's Chapel will be relocated outside of the clear zone using temporary construction easements.
3. Re-Landscaping and plantings along the front of the property.

66-dBA Audible Contour

- Year 2004 No-Build
- Year 2030 No-Build
- Year 2030 Build (Preferred Alternative)

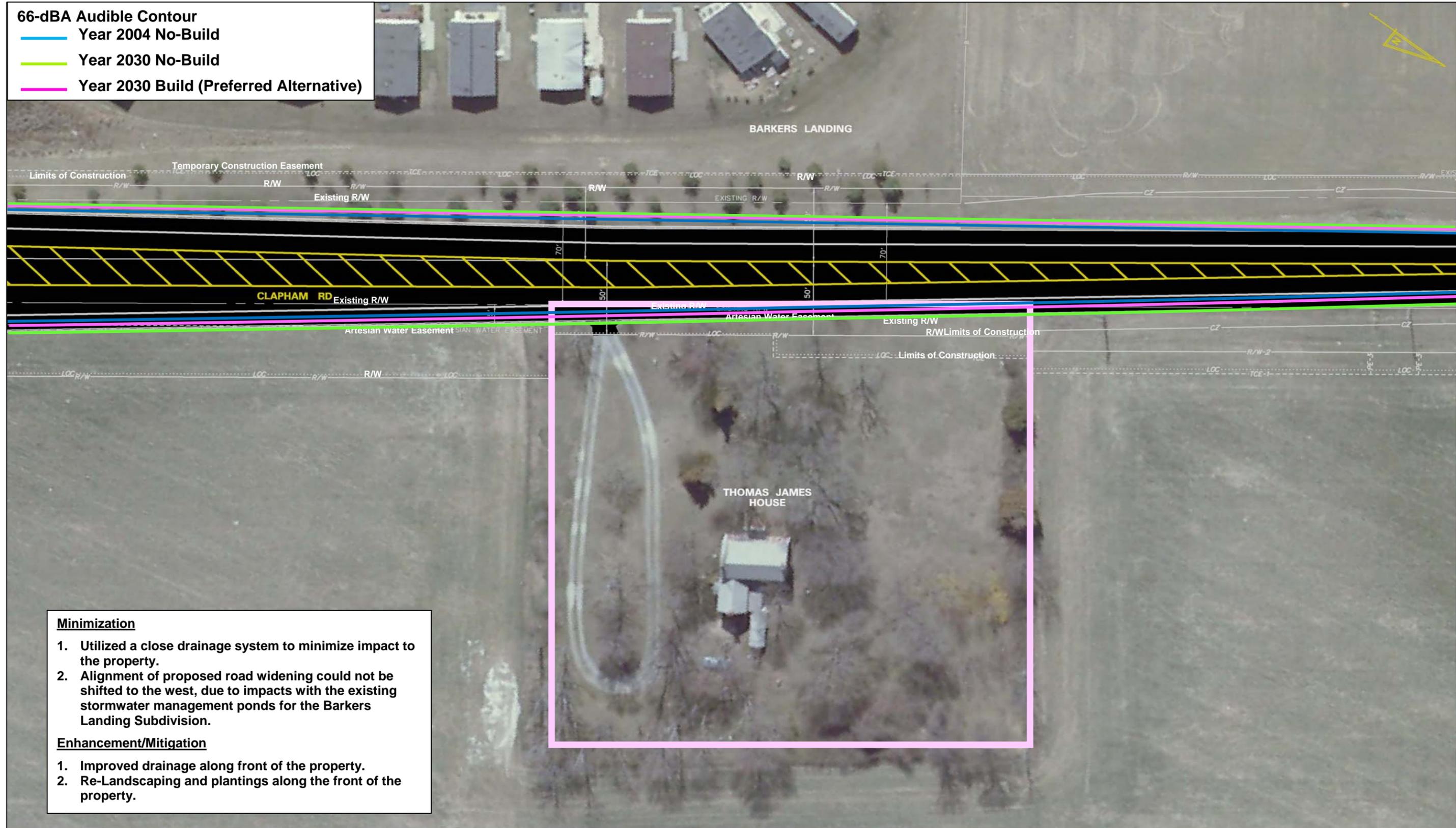
NOTE: Dashed Lines indicates equal value noise contours.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 60 120 180 FEET	SRI, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT	BRIDGE NO.	-	Figure 11 Barratt's Chapel and Cemetery
				24-122-D2	DESIGNED BY:	SFP	
				COUNTY	KENT	CHECKED BY:	



DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 40 80 120 160 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION		CONTRACT 24-122-02	BRIDGE NO. --
				KENT COUNTY	DESIGNED BY SFP	CHECKED BY WFC

Figure 12
 Jehu Reed House



Minimization

1. Utilized a close drainage system to minimize impact to the property.
2. Alignment of proposed road widening could not be shifted to the west, due to impacts with the existing stormwater management ponds for the Barkers Landing Subdivision.

Enhancement/Mitigation

1. Improved drainage along front of the property.
2. Re-Landscaping and plantings along the front of the property.

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT	BRIDGE NO.	-
				24-122-02	DESIGNED BY:	SFP
				COUNTY	CHECKED BY:	WFC
				KENT		
			Figure 13		Thomas James House	

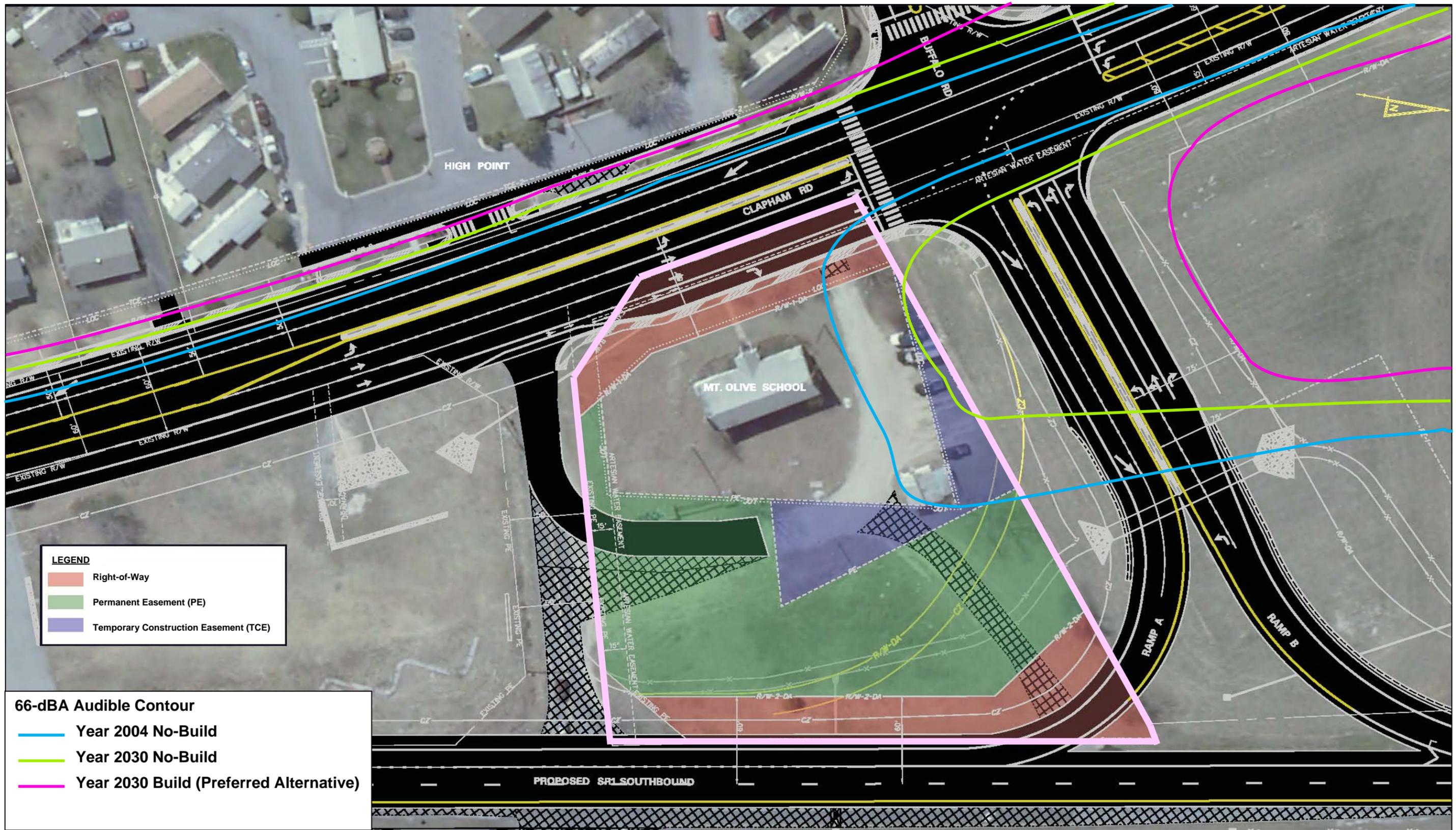


Figure 14
 Mt. Olive School

DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	SR1, LITTLE HEAVEN GRADE SEPARATED INTERSECTION	CONTRACT	BRIDGE NO.	-
				24-122-02	DESIGNED BY:	SFP
				COUNTY	CHECKED BY:	WFC
				KENT		

SR 1, Little Heaven Grade Separated Intersection Project
Determination of Effect

F. Archaeological Sites

A description of the undertaking's effect on the identified archaeological sites cannot be adequately discussed since the sites have not been fully identified or known to be National Register eligible. What is known going into the Phase IB and future Phase II studies is that some level of direct impact would occur by the implementing the Preferred Alternative. Future measures and protocol are more formally described in the Memorandum of Agreement in this document.

G. Summary

Based on the above descriptions and in consultation with the DE SHPO, the Little Heaven Preferred Alternative was found to have “no effect” on W.C. Fountain Agricultural Complex. The entire project undertaking will not alter the physical characteristics (directly or indirectly) that qualify this property for listing in the National Register. Based on the property's defining characteristics, the transportation elements will only occur near and remote from the property. As a result, discussions on this property with respect to the undertaking will not be discussed any further.

The Little Heaven GSI Project will, however, have an effect on the remaining 4 properties within the Area of Potential Effect. Therefore, the Criteria of Adverse Effect shall be applied to the historic properties; each is considered in Section V. of this report, which assesses the applicability of adverse effects identified under 36 CRR 800.5.