

Appendix A

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION
CORRIDOR H KERENS TO PARSONS PROJECT SECTION 2
STATION 510+00 TO 690+00
DESIGN-BUILD ENVIRONMENTAL COMPLIANCE TRACKING

State Project: X142-H-38.99 C-2
Federal Project: APD-484 (59)

CE/EA/EIS Clearance Date: Corridor H FEIS signed in 1996, with ROD signed 8/2/96;
Kerens to Parsons Project ("Battlefield Avoidance") Supplemental FEIS (SFEIS) signed in 2002, with Amended ROD (AROD) signed 5/12/03;
Kerens to Parsons Project SFEIS/AROD Section 2 Re-evaluation is pending.

Environmental Clearances/Permits

National Environmental Policy Act (NEPA) - As noted above, "environmental" clearances have been obtained for the project. However, those clearances are based on the design and "footprint" of the project as described in those approved documents. Federal regulations require a re-evaluation of the continued validity of previous NEPA clearances if project changes are made that substantially change possible project impacts. If substantial changes to the project are proposed to the project by the Design Build Team (DBT), those changes need to be discussed with WVDOH and FHWA to determine if they will require a formal, written re-evaluation. Additional details on project re-evaluations are found in FHWA regulations at 23 CFR 771.129 and at <https://www.environment.fhwa.dot.gov/projdev/tdmpdo.asp>.

Section 404 and Section 401 Clean Water Act (Stream and Wetlands) Permits - Investigations and permits are required by the US Army Corps of Engineers (USACE) for actions that result in the filling of streams and wetlands. Investigations have been conducted for wetlands and streams, and the results were used to develop a permit modification which was submitted to the USACE in November of 2017. Details of wetland fills and stream fills and incursions (e.g., pipes, culverts, relocations, etc.) are included on design plans. Any deviation from those proposed activities may require formal permit modification and approval from the permitting agencies. If the DBT proposes changes, it is the DBT's responsibility to conduct appropriate studies and secure permits for those changes. Please note that these additional details may not constitute the total information necessary to apply for any additional permits. It is the responsibility of the DBT to submit complete applications for any additional permits required.

Section 7 (Endangered Species Act [ESA]) Approvals- Investigations to determine the presence or absence of ESA protected plant and animal species have been conducted for the project area including access roads. The limits of those studies are indicated on project mapping. Following those studies, determinations were made by the U.S. Fish and Wildlife Service (USFWS) relative to the potential effect of the project on those species. If the DBT proposes activities outside of the limits of the project area as presented, the DBT will be responsible for conducting additional

investigations and securing appropriate determinations from the USFWS. Additionally, studies that were conducted to determine the presence or absence of ESA protected plant and animal species have "expiration dates." If project construction has not been commenced prior to those expirations (see Table 2), new studies and approvals may be required by the USFWS. The DBT is responsible for conducting appropriate studies and securing USFWS determinations.

Forest Sensitive Species- The United States Forest Service (USFS or "Forest Service") has designated forest sensitive species in each of its National Forests. Before activities commence within a National Forest, studies must be conducted to determine the presence or absence of any forest sensitive species and if any of those species are present, determinations must be made by the USFS on the effect of the proposed action on any identified forest sensitive species. Appropriate studies and determinations have been made for this project. If the DBT proposes activities outside of the project area and within the boundaries of the Monongahela National Forest (MNF), the DBT will be responsible for conducting additional investigations and securing appropriate determinations from the USFS. Additionally, studies that were conducted to determine the presence or absence of forest sensitive species have "expiration dates." If project construction has not been commenced prior to those expirations (see Table 2), new studies and approvals may be required by the USFS. The DBT is responsible for conducting appropriate studies and securing USFS determinations.

Special Use Permits- Special Use Permits are required within the MNF for certain activities (e.g., core borings, archaeological investigations, well drilling, etc.). Special use permits have been obtained for those activities that have been conducted within the project areas identified on project plans and mapping. If the project changes from that project that has been approved in the re-evaluation documents and presented in the design plans, additional special use permits may be required. It is the DBT's responsibility to identify and secure applicable special use permits from the Forest Service if the DBT's activities occur within Forest Service owned land and outside of the project area defined on the project plans and mapping.

Table 1. Design-Build Environmental Compliance Tracking

Mitigation Item	Requirements	Information Source	Location
Construction Measures	Details are Presented in the RFP. Deviations from access as described in the RFP and design plans within the MNF will require approval and permits from the Forest Service and are the responsibility of the DBT (see "Special Use Permits" above).		
Construction Access	Temporary roads, including those areas within the right-of-way, will be decommissioned and reclaimed in accordance with Forest Service standards for areas owned by the Forest Service within the MNF.	Coordination with the Forest Service.	Full Length of the Project
Disposal of Excess Excavation (Waste) and/or Excavation of Borrow Sites	<p><u>Locations Within MNF owned property-</u></p> <ul style="list-style-type: none"> The DBT must only waste or borrow in those areas designated for such activities as indicated on construction plans. If any additional sites are identified for use by the DBT or if the DBT proposes to expand those sites those new sites or their expansion must be approved by the Forest Service and any appropriate permits or other approvals must be secured by the DBT. 	<p>Coordination with the Forest Service.</p> <p><i>2003 MOU Among FHWA, WVDOT, and Forest Service, p. 4</i></p>	<p>Locations as indicated within the MNF;</p> <p>Otherwise, to be finalized during design-build process.</p>

Mitigation Item	Requirements	Information Source	Location
<p>Acid Producing Material and Drainage Sites</p>	<p><u>Locations outside of MNF owned property</u></p> <ul style="list-style-type: none"> Sites must be free of known sensitive resources (i.e., wetlands, known T & E species habitat, known archaeology sites, perennial streams, and floodplains). However, if practicable sites without such features can't be found then the DBT is responsible for carrying out appropriate studies and analyses and procuring applicable permits. <p>Geotechnical investigations (core borings) have been undertaken for this project. <u>These investigations have identified strata and areas that could potentially produce acid drainage, as indicated on design plans.</u></p> <p>If the DBT proposes to conduct disturbance of sub-surface strata that have not been tested for acid producing potential, that area must be cored and tested for the presence of acid producing materials. The DBT will report the results to WVD0H.</p> <p>The DBT will be responsible for the development and implementation of an acid materials handling plan which will need to be approved by WVD0H and the Forest Service. Additionally, material that potentially could produce acid drainage cannot be placed within the Forest Service boundary whether or not it is within the property to be transferred to the WVD0H.</p>	<p>Corridor H FEIS Mitigation Document, pp. 22-25;</p> <p>Core Boring Reports</p> <p>Coordination with the Forest Service</p>	<p>Full length of the Project.</p> <p>Approvals by the Forest Service required for areas owned by the Forest Service within the MNF.</p>
<p>Minimization of Clearing and Grubbing</p>	<p>Clearing and grubbing is limited to within the construction limits as indicated on construction plans and clearing only for an additional 10 feet outside of those construction limits.</p>	<p>Corridor H FEIS Mitigation Document, p. 17;</p> <p>AROD, p. A-1;</p> <p>2017 Indiana Bat Conservation Plan, p. 3</p>	<p>Full length of the Project.</p>
<p>Timber Cutting</p>	<p>Cutting of trees equal to or greater than 5" dbh shall occur only between November 15 and March 31.</p> <p>Tree cutting may only occur within designated and approved clearing limits.</p> <p>No cutting of trees shall occur within the MNF prior to having the market value of the trees established and agreed upon by the Forest Service and payment is made.</p>	<p>2017 Indiana Bat Conservation Plan, p. 3</p> <p>Correspondence to and from the USFWS dated April 11 and April 13, 2017 stating and confirming commitments made by WVD0H.</p> <p>2003 MOU Among FHWA, WVDOT, and Forest Service, p. 4</p>	<p>Full length of the Project.</p> <p>Approvals required with the USFWS for full length of the Project.</p> <p>Approvals by the Forest Service required for areas owned by the Forest Service within the MNF.</p>

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	<p>If tree cutting must occur outside the designated clearing limits, a new Bat Conservation Plan must be prepared by the DBT and it must be approved by the DOH, USFWS, and Forest Service (for areas owned by the Forest Service within the MNF) prior to beginning tree cutting activities.</p> <p>These restrictions are valid for all work that is associated with the project including but not limited to alignment shifts, staging areas, haul roads, access roads, office areas, material storage areas, and waste or borrow areas.</p>		
<p>Erosion and Sedimentation Control Measures</p>	<p>Preparation and submittal of an Erosion and Sediment Control Plan (SWPPP) for comment and approval by WVDOT, USFWS, and Forest Service.</p> <p>Preparation and submittal of a Spill, Prevention, Control, and Countermeasure (SPCC) Plan for comment and approval by WVDOT, USFWS, and Forest Service.</p> <p>Inspections for storm water runoff erosion conducted a minimum of once per week during periods of heavy rains and/or during active construction, and once per month during the winter shutdown period.</p> <p>Photo documentation of conditions and maintenance of erosion and sediment control measures.</p>	<p>Corridor H FEIS Mitigation Document, p. 13; AROD, p. A-1; <i>2003 MOU Among FHWA, WVDOT, and Forest Service</i>, p. 4 <i>2017 Indiana Bat Conservation Plan</i>, pp. 2-3</p>	<p>Full length of the Project.</p> <p>Approvals by the Forest Service required for areas owned by the Forest Service within the MNF.</p>
<p>Topsoil Stockpiling for Redistribution</p>	<p>Consideration will be given to stripping topsoil in those areas that are not wooded for utilization in roadside landscaping;</p> <p>Topsoil stockpiles should be clearly marked; and</p> <p>Runoff diversion measures will be used around the stockpiles.</p>	<p>Corridor H FEIS Mitigation Document, p. 17; AROD, p. A-3</p>	<p>Full length of the Project.</p>
<p>Topsoil Redistribution</p>	<p>Topsoil will be redistributed on cut slopes of 3 to 1 or flatter as shown on the plans; and</p> <p>Topsoil will be redistributed at areas of vegetative screening or special landscaping.</p>	<p>Corridor H FEIS Mitigation Document, p. 17; AROD, p. A-3</p>	<p>Full length of the Project.</p>

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<p>Noise Restrictions and Pile Driving/Vibratory Work Requirements</p>	<p>There is a 10:00 PM to 6:00 AM Restriction; and Residents within 600 feet of the construction limits will be notified prior to commencement of pile driving or other vibratory work activities.</p>	<p>Corridor H FEIS, p. III-246; SFEIS, p. III-148; AROD, p. A-1</p>	<p>Full length of the Project.</p>
<p>Snow Removal</p>	<p>Snow removal for MNF access roads outside construction limits shall be conducted in a manner that protects roads, ensures safe and efficient transportation of materials, and prevents erosion damage to roads, streams, and adjacent lands.</p> <p>For snow removal on MNF access roads outside of designated construction limits, the DBT shall:</p> <ol style="list-style-type: none"> 1. Remove snow from the entire width of the road surface, including turnouts; 2. Remove snow slides, earth slides, fallen timber, and boulders that obstruct the road surface; 3. Remove snow, ice, and debris from ditches and culverts so that the drainage system will function efficiently at all times; 4. Deposit all debris, except snow and ice, removed from the road surface and ditches at locations approved by the WDOH Compliance/Erosion and Sediment Control Officer and away from stream channels; 5. Leave at least two (2) inches of snow to protect the road; 6. Restore any damage resulting from snow removal in a timely manner; and 7. Ensure that snow plowing is conducted in accordance with a traffic control plan. <p>For snow removal on MNF access roads outside of designated construction limits, the DBT shall not:</p> <ol style="list-style-type: none"> 1. Undercut constructed slopes or remove gravel or other surfacing material from the road surface; 2. Leave snow berms on the road surface. Berms on the shoulder of the road shall be removed or drainage holes shall be opened and maintained. Drainage holes shall be spaced as necessary to obtain 	<p>Coordination with Forest Service.</p>	<p>Areas within the MNF.</p>

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	<p>satisfactory surface drainage without discharge on erodible fills; and</p> <p>3. Use equipment with cleats or other tracks to plow snow without prior written approval of the WVDOH and the Forest Service.</p>		
<p>Property Owner Notifications</p>	<p>The DBT shall not enter private property or areas owned by the Forest Service without 3-day notification, and shall not enter private property without confirming that written authorization to perform work on the property has been secured.</p>	<p>Coordination with the Forest Service.</p>	<p>Full length of the Project.</p>
<p>Water Sources during Construction</p>	<p>Pumping water for drilling and related purposes shall only be permitted from Haddix Run, Fools Run, Goodwin Run, Sugar Camp Run, Left Fork Clover Run, Un-named Trib. to Shavers Fork (along Smokey Hollow Road), Shavers Fork, Black Fork, Black Water, Cheat River, Un-named Trib. to Cheat, Wolf Run, Un-named Trib. to Wolf Run, Roaring Run, Un-named Trib. to Roaring Run, and Private Ponds (as approved and negotiated by the Drilling DBT with property owner).</p> <p><u>Pumping water from all other area streams and other water sources will be prohibited. Under no circumstances shall the DBT modify any of the above listed streams or other water source, nor shall the DBT extract a volume of water significant enough to substantially decrease the flow rate and/or water level.</u></p> <p>All equipment used for pumping water shall be cleaned and disinfected prior to moving on to the project site. Intake lines shall be equipped with screens to prevent drawing in any aquatic life from the listed streams. All water pumps will have fuel secondary spill containment and spill kits.</p>	<p>Coordination with the Forest Service.</p>	<p>Full length of the project.</p>

Mitigation Item	Requirements	Information Source	Location
In-Stream Work Restrictions	<p>Minimize in-stream construction activities;</p> <p>Access across streams or drains will be provided with a temporary bridge;</p> <p>Eliminate chemical and/or petroleum-product discharges into streams; and</p> <p>All in-stream construction activity will be restricted during fish spawning seasons, unless approved by WVDNR.</p>	Corridor H FEIS, p. III-247; AROD, p. A-1	Full length of the Project.
Emergency Preparedness	<p>The DBT shall have on site at all times: a first aid kit, a fire suppression device, and a spill kit with emergency materials and absorbent pads to contain oil, fuel and hydraulic leaks from the equipment and to control other critical spill situations.</p>	Coordination with the Forest Service.	Full length of the project.
Superintendent	<p>The DBT shall have on-site at all times a competent Superintendent capable of reading and thoroughly understanding the Plans and Specifications and environmental requirements; thoroughly experienced in the type of work being performed; and who shall receive instructions from the DOH Project Engineer or his or her authorized representative.</p>	Coordination with the Forest Service.	Full length of the project.
Reclamation	<p>The DBT will be responsible for reclamation of any disturbances outside of the project's construction limits (e.g., haul roads, waste sites, etc.).</p> <p>Re-seed disturbed areas with seed mixes approved by the Forest Service and WVDON.</p>	<p>AROD, p.A-1</p> <p>Coordination with the Forest Service</p>	Full length of the Project.
Streams, Wetlands, and Groundwater			
Wetland Avoidance	<p>Where practicable, avoid impacts to wetlands.</p> <p>If additional impacts are made within the MNF, additional coordination with Forest Service is required and mitigation to the Forest Service may be required.</p>	See above "Section 404 and Section 401 Clean Water Act (Stream and Wetlands) Permits."	Full length of the project.

Mitigation Item	Requirements	Information Source	Location
Proposed Stream Crossing/Relocation	Where practicable, avoid impacts to perennial streams and, where crossings cannot be avoided, choose perpendicular crossings rather than longitudinal crossings. If additional impacts are made within the MNF, additional coordination with Forest Service is required and mitigation to the Forest Service may be required.	See above "Section 404 and Section 401 Clean Water Act (Stream and Wetlands) Permits"	Full length of the project.
High Quality, Native Trout, and/or Stocked Trout Streams	Where practicable, avoid impacts to high quality, native trout, and stocked trout streams.	See above "Section 404 and Section 401 Clean Water Act (Stream and Wetlands) Permits."	Full length of the Project.
Natural Channel Design on Stream Relocations/Culverts	Where practicable, use natural channel design for all high quality stream relocations and selected culvert crossings within the MNF.	2003 MOU Among FHWA, WVDOT, and Forest Service, p. 4	Full length of the project.
Groundwater/Wells	<p>It is the responsibility of the DBT to identify, monitor, mitigate, and secure applicable permits.</p> <p>The DBT will replace any private residential drinking wells lost because of construction activities.</p> <p>Any abandoned wells encountered by the DBT will be properly sealed in accordance with standards set by current regulations.</p> <p>Active wells within 500 feet of the Refined Selected Alternative will be monitored for both water quality and quantity before, during, and after construction.</p> <p>Any Public Service District (PSD) intakes located within the project area will require separate permits and additional water quality monitoring during construction. Securing those permits and required monitoring are the responsibility of the DBT.</p>	<p>SFEIS, p. III-114-121, Tables III-45, III-46, and III-47;</p> <p>AROD, p. A-2</p>	To be finalized during design-build process.
Goodwin Run Watershed			
Agency Coordination	Any changes to project plans within the Goodwin Run watershed must be coordinated with the USFWS.	Coordination regarding the small whorled pogonia (<i>Isotria medeoloides</i>) with the U.S. Fish and Wildlife Service (letter dated November 8, 2016).	Goodwin Run watershed.

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Recreation Areas Trail Relocation and/or Trailhead Improvement	<p>Within the MNF, all crossings and/or realignments of hiking trails will require Forest Service coordination and review.</p> <p>Trailhead and parking area improvements will be established at specific locations shown in plans.</p> <p>The Shingletree Trail (Trail Road 121) will be rerouted to include a pedestrian bridge over Corridor H, and a parking area will be provided. The parking area will include space for at least 20 vehicles and room enough for a bus to turn around.</p>	<p>SFEIS, p. III-45</p> <p>AROD, p. A-5</p> <p>2003 MOU Among FHWA, WVDOT, and Forest Service, p. 4</p> <p>Coordination with the Forest Service, Winter-Spring 2017</p>	<p>See plans for additional details. The Shingletree Trail and new parking area are located approximately between Stations 545 and 555.</p>
Forest Service Owned Property	<p>For areas outside the current design that are owned by the Forest Service, mitigation may be required. The DBT must coordinate all work that is not clearly identified on the current design plans with the Forest Service, and any mitigation that is needed to satisfy the Forest Service.</p>	<p>Coordination with the Forest Service, June 2017</p>	<p>Full length of the Project.</p>
Cultural Resources Historic Resource Requirements	<p>If the alignment of the project is modified, additional surveys and determinations may be required. This additional work is the responsibility of the DBT.</p>	<p>2017 Re-Evaluation and companion documents</p>	<p>Areas of alignment shifts that expand the Area of Potential Effect along full length of the Project.</p>

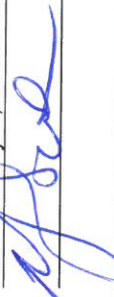
Mitigation Item	Requirements	Information Source	Location
Additional Archaeological Testing Requirements	<p>Archaeological surveys have been conducted within the project area. Only one site (the Felton-Gutshall Site) was discovered in Section 2, and one other site (the Long Site) is immediately adjacent to Section 2. The location and boundaries of the sites have been indicated on design plans. The current project design avoids encroachment on the sites and no additional work is required. However, if the DBT changes the alignment such that the project encroaches within the boundaries of one or more site, additional coordination with the WWSHPO and the Forest Service will be required as will additional archaeological investigations. The coordination and additional work will be the responsibility of the DBT.</p> <p>If the DBT proposes disturbance of areas not previously surveyed for the presence/absence of archaeological resources, the DBT, after consultation with the WWSHPO and the Forest Service, will be responsible for conducting appropriate archaeological studies and preparing appropriate reports.</p>	2017 Re-Evaluation and companion documents	Full length of the Project.
Hazardous Waste			
Hazardous Waste Site(s)	The project area as defined on project mapping has been surveyed to determine the presence of potential hazardous waste sites and none were found. If the DBT proposes disturbance outside of the project area, the DBT is responsible for surveys and coordination.	2017 Re-Evaluation and companion documents	Full length of the Project.
Evaluation of Changes			
Public Involvement	If the DBT proposes changes to the project that will cause new impacts, those new impacts might require public involvement. Such coordination may include a public meeting with appropriate advanced notice, comment period, and responses to comments in accordance with WWSHPO and FHWA policy and guidance. The need for new public involvement will be determined by WWSHPO and FHWA, but will be the responsibility of the DBT. Examples of impacts that may require public involvement include (among other potential impacts) a new relocation of a residence or a new impact to a historic site.	FHWA and WWSHPO policy to address NEPA and Section 106 public coordination requirements. Also, see above "National Environmental Policy Act (NEPA)."	Full length of the Project.

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Re-evaluation	If the DBT proposes changes to the project, those changes need to be discussed with WVDOH and FHWA to determine if they will require a formal, written re-evaluation.	See above "National Environmental Policy Act (NEPA)."	Full length of the Project.

Table 2. Design-Build Rare, Threatened, and Endangered Species Survey Tracking

Resource	Agency	Date of Concurrence	Survey Date	Survey Expiration
Indiana bat	USFWS	January 31, 2017	2016 Mist-netting and Habitat Assessment	May 2021
Northern long-eared bat	USFWS	April 13, 2017	2016 Mist-netting	May 2021
Virginia big-eared bat	USFWS	December 14, 2014	2016 Mist-netting	May 2021
Running buffalo clover	USFWS	August 1, 2016	2016	July 2018*
Small whorled pogonia	USFWS	November 8, 2016	2016	July 2018*
Cheat Mountain salamander	USFWS	December 14, 2014	Habitat suitability inventory conducted in 2001, and no suitable habitat found.	N/A
Migratory Birds	USFWS	April 13, 2017	N/A	N/A
RFSS (other than federally listed species)	US Forest Service	June 24, 2015 (animals) June 3, 2016 (plants)	2012-2014	N/A

Notes: N/A = Not Applicable; RFSS = Regional Forest Sensitive Species; * = USFWS WV Field Office established a 2-year expiration for botanical surveys within the Kerens to Parsons project area because of the past discoveries of listed species in the region.

Prepared by: Martha DoByns, Michael Baker International Date: November 20, 2017
 Division Director Approval:  Date: 11/20/17
 Distribute to: _____

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<p><u>Locations outside of MNF owned property</u></p> <ul style="list-style-type: none"> Sites must be free of known sensitive resources (i.e., wetlands, known T & E species habitat, known archaeology sites, perennial streams, and floodplains). However, if practicable sites without such features can't be found then the DBT is responsible for carrying out appropriate studies and analyses and procuring applicable permits. 			
<p>Acid Producing Material and Drainage Sites</p>	<p>Geotechnical investigations (core borings) have been undertaken for this project. <u>These investigations have identified strata and areas that could potentially produce acid drainage, as indicated on design plans.</u></p> <p>If the DBT proposes to conduct disturbance of sub-surface strata that have not been tested for acid producing potential, that area must be cored and tested for the presence of acid producing materials. The DBT will report the results to WVD0H.</p> <p>The DBT will be responsible for the development and implementation of an acid materials handling plan which will need to be approved by WVD0H and the Forest Service. Additionally, material that potentially could produce acid drainage cannot be placed within the Forest Service boundary whether or not it is within the property to be transferred to the WVD0H.</p>	<p>Corridor H FEIS Mitigation Document, pp. 22-25;</p> <p>Core Boring Reports</p> <p>Coordination with the Forest Service</p>	<p>Full length of the Project.</p> <p>Approvals by the Forest Service required for areas owned by the Forest Service within the MNF.</p>
<p>Minimization of Clearing and Grubbing</p>	<p>Clearing and grubbing is limited to within the construction limits as indicated on construction plans and clearing only for an additional 10 feet outside of those construction limits.</p>	<p>Corridor H FEIS Mitigation Document, p. 17;</p> <p>AROD, p. A-1;</p> <p>2017 Indiana Bat Conservation Plan, p. 3</p>	<p>Full length of the Project.</p>
<p>Timber Cutting</p>	<p>Cutting of trees equal to or greater than 5" dbh shall occur only between November 15 and March 31.</p> <p>Tree cutting may only occur within designated and approved clearing limits.</p> <p>No cutting of trees shall occur within the MNF prior to having the market value of the trees established and agreed upon by the Forest Service and payment is made.</p>	<p>2017 Indiana Bat Conservation Plan, p. 3</p> <p>Correspondence to and from the USFWS dated April 11 and April 13, 2017 stating and confirming commitments made by WVD0H.</p> <p>2003 MOU Among FHWA, WVDOT, and Forest Service, p. 4</p>	<p>Full length of the Project.</p> <p>Approvals required with the USFWS for full length of the Project.</p> <p>Approvals by the Forest Service required for areas owned by the Forest Service within the MNF.</p>

Mitigation Item	Requirements	Information Source	Location
	<p>If tree cutting must occur outside the designated clearing limits, a new Bat Conservation Plan must be prepared by the DBT and it must be approved by the DOH, USFWS, and Forest Service (for areas owned by the Forest Service within the MNF) prior to beginning tree cutting activities.</p> <p>These restrictions are valid for all work that is associated with the project including but not limited to alignment shifts, staging areas, haul roads, access roads, office areas, material storage areas, and waste or borrow areas.</p>		
<p>Erosion and Sedimentation Control Measures</p>	<p>Preparation and submittal of an Erosion and Sediment Control Plan (SWPPP) for comment and approval by WDOH, USFWS, and Forest Service.</p> <p>Preparation and submittal of a Spill, Prevention, Control, and Countermeasure (SPCC) Plan for comment and approval by WDOH, USFWS, and Forest Service.</p> <p>Inspections for storm water runoff erosion conducted a minimum of once per week during periods of heavy rains and/or during active construction, and once per month during the winter shutdown period.</p> <p>Photo documentation of conditions and maintenance of erosion and sediment control measures.</p>	<p>Corridor H FEIS Mitigation Document, p. 13; AROD, p. A-1; <i>2003 MOU Among FHWA, WVDOT, and Forest Service</i>, p. 4 <i>2017 Indiana Bat Conservation Plan</i>, pp. 2-3</p>	<p>Full length of the Project.</p> <p>Approvals by the Forest Service required for areas owned by the Forest Service within the MNF.</p>
<p>Topsoil Stockpiling for Redistribution</p>	<p>Consideration will be given to stripping topsoil in those areas that are not wooded for utilization in roadside landscaping;</p> <p>Topsoil stockpiles should be clearly marked; and</p> <p>Runoff diversion measures will be used around the stockpiles.</p>	<p>Corridor H FEIS Mitigation Document, p. 17; AROD, p. A-3</p>	<p>Full length of the Project.</p>
<p>Topsoil Redistribution</p>	<p>Topsoil will be redistributed on cut slopes of 3 to 1 or flatter as shown on the plans; and</p> <p>Topsoil will be redistributed at areas of vegetative screening or special landscaping.</p>	<p>Corridor H FEIS Mitigation Document, p. 17; AROD, p. A-3</p>	<p>Full length of the Project.</p>
<p>Noise Restrictions and Pile</p>	<p>There is a 10:00 PM to 6:00 AM Restriction; and</p>	<p>Corridor H FEIS, p. III-246;</p>	<p>Full length of the Project.</p>

Mitigation Item	Requirements	Information Source	Location
Driving/Vibratory Work Requirements	Residents within 600 feet of the construction limits will be notified prior to commencement of pile driving or other vibratory work activities.	SFEIS, p. III-148; AROD, p. A-1	
Snow Removal	<p>Snow removal for MNF access roads outside construction limits shall be conducted in a manner that protects roads, ensures safe and efficient transportation of materials, and prevents erosion damage to roads, streams, and adjacent lands.</p> <p>For snow removal on MNF access roads outside of designated construction limits, the DBT shall:</p> <ol style="list-style-type: none"> 1. Remove snow from the entire width of the road surface, including turnouts; 2. Remove snow slides, earth slides, fallen timber, and boulders that obstruct the road surface; 3. Remove snow, ice, and debris from ditches and culverts so that the drainage system will function efficiently at all times; 4. Deposit all debris, except snow and ice, removed from the road surface and ditches at locations approved by the WVDOT Compliance/Erosion and Sediment Control Officer and away from stream channels; 5. Leave at least two (2) inches of snow to protect the road; 6. Restore any damage resulting from snow removal in a timely manner; and 7. Ensure that snow plowing is conducted in accordance with a traffic control plan. <p>For snow removal on MNF access roads outside of designated construction limits, the DBT shall not:</p> <ol style="list-style-type: none"> 1. Undercut constructed slopes or remove gravel or other surfacing material from the road surface; 2. Leave snow berms on the road surface. Berms on the shoulder of the road shall be removed or drainage holes shall be opened and maintained. Drainage holes shall be spaced as necessary to obtain satisfactory surface drainage without discharge on erodible fills; and 3. Use equipment with cleats or other 	Coordination with Forest Service.	Areas within the MNF.

Mitigation Item	Requirements	Information Source	Location
	tracks to plow snow without prior written approval of the WVDOH and the Forest Service.		
Property Owner Notifications	<p>The DBT shall not enter private property or areas owned by the Forest Service without 3-day notification, and shall not enter private property without confirming that written authorization to perform work on the property has been secured.</p>	Coordination with the Forest Service.	Full length of the Project.
Water Sources during Construction	<p>Pumping water for drilling and related purposes shall only be permitted from Haddix Run, Fools Run, Goodwin Run, Sugar Camp Run, Left Fork Clover Run, Un-named Trib. to Shavers Fork (along Smokey Hollow Road), Shavers Fork, Black Fork, Cheat Water, Cheat River, Un-named Trib. to Cheat, Wolf Run, Un-named Trib. to Wolf Run, Roaring Run, Un-named Trib. to Roaring Run, and Private Ponds (as approved and negotiated by the Drilling DBT with property owner).</p> <p><u>Pumping water from all other area streams and other water sources will be prohibited. Under no circumstances shall the DBT modify any of the above listed streams or other water source, nor shall the DBT extract a volume of water significant enough to substantially decrease the flow rate and/or water level.</u></p> <p>All equipment used for pumping water shall be cleaned and disinfected prior to moving on to the project site. Intake lines shall be equipped with screens to prevent drawing in any aquatic life from the listed streams. All water pumps will have fuel secondary spill containment and spill kits.</p>	Coordination with the Forest Service.	Full length of the project.

Mitigation Item	Requirements	Information Source	Location
In-Stream Work Restrictions	<p>Minimize in-stream construction activities;</p> <p>Access across streams or drains will be provided with a temporary bridge;</p> <p>Eliminate chemical and/or petroleum-product discharges into streams; and</p> <p>All in-stream construction activity will be restricted during fish spawning seasons, unless approved by WVDNR.</p>	Corridor H FEIS, p. III-247; AROD, p. A-1	Full length of the Project.
Emergency Preparedness	<p>The DBT shall have on site at all times: a first aid kit, a fire suppression device, and a spill kit with emergency materials and absorbent pads to contain oil, fuel and hydraulic leaks from the equipment and to control other critical spill situations.</p>	Coordination with the Forest Service.	Full length of the project.
Superintendent	<p>The DBT shall have on-site at all times a competent Superintendent capable of reading and thoroughly understanding the Plans and Specifications and environmental requirements; thoroughly experienced in the type of work being performed; and who shall receive instructions from the DOH Project Engineer or his or her authorized representative.</p>	Coordination with the Forest Service.	Full length of the project.
Reclamation	<p>The DBT will be responsible for reclamation of any disturbances outside of the project's construction limits (e.g., haul roads, waste sites, etc.).</p> <p>Re-seed disturbed areas with seed mixes approved by the Forest Service and WYDOH.</p>	<p>AROD, p.A-1</p> <p>Coordination with the Forest Service</p>	Full length of the Project.
Streams, Wetlands, and Groundwater			
Wetland Avoidance	<p>Where practicable, avoid impacts to wetlands.</p> <p>If additional impacts are made within the MNF, additional coordination with Forest Service is required and mitigation to the Forest Service may be required.</p>	See above "Section 404 and Section 401 Clean Water Act (Stream and Wetlands) Permits."	Full length of the project.

Mitigation Item	Requirements	Information Source	Location
Proposed Stream Crossing/Relocation	<p>Where practicable, avoid impacts to perennial streams and, where crossings cannot be avoided, choose perpendicular crossings rather than longitudinal crossings.</p> <p>If additional impacts are made within the MNF, additional coordination with Forest Service is required and mitigation to the Forest Service may be required.</p>	See above "Section 404 and Section 401 Clean Water Act (Stream and Wetlands) Permits"	Full length of the project.
High Quality, Native Trout, and/or Stocked Trout Streams	Where practicable, avoid impacts to high quality, native trout, and stocked trout streams.	See above "Section 404 and Section 401 Clean Water Act (Stream and Wetlands) Permits."	Full length of the Project.
Natural Channel Design on Stream Relocations/Culverts	Where practicable, use natural channel design for all high quality stream relocations and selected culvert crossings within the MNF.	2003 MOU Among FHWA, WVDOT, and Forest Service, p. 4	Full length of the project.
Groundwater/Wells	<p>It is the responsibility of the DBT to identify, monitor, mitigate, and secure applicable permits.</p> <p>The DBT will replace any private residential drinking wells lost because of construction activities.</p> <p>Any abandoned wells encountered by the DBT will be properly sealed in accordance with standards set by current regulations.</p> <p>Active wells within 500 feet of the Refined Selected Alternative will be monitored for both water quality and quantity before, during, and after construction.</p> <p>Any Public Service District (PSD) intakes located within the project area will require separate permits and additional water quality monitoring during construction. Securing those permits and required monitoring are the responsibility of the DBT.</p>	<p>SFEIS, p. III-114-121, Tables III-45, III-46, and III-47;</p> <p>AROD, p. A-2</p>	To be finalized during design-build process.
Running Buffalo Clover			
Agency Coordination	Any changes to project plans in the vicinity of a known population of running buffalo clover (<i>Trifolium stoloniferum</i>) must be coordinated with the USFWS.	Coordination regarding the running buffalo clover (<i>Trifolium stoloniferum</i>) with the U.S. Fish and Wildlife Service (letter dated August 1, 2016).	Between Cheat River and Wolf Run.

Mitigation Item	Requirements	Information Source	Location
Recreation Areas			
Trail Relocation and/or Trailhead Improvement	<p>Within the MNF, all crossings and/or realignments of hiking trails will require Forest Service coordination and review.</p> <p>Trailhead and parking area improvements will be established at specific locations shown in plans.</p> <p>The Shingletree Trail (Trail Road 121) will be rerouted to include a pedestrian bridge over Corridor H, and a parking area will be provided. The parking area will include space for at least 20 vehicles and room enough for a bus to turn around.</p>	<p>SFEIS, p. III-45</p> <p>AROD, p. A-5</p> <p>2003 MOU Among FHWA, WVDOT, and Forest Service, p. 4</p> <p>Coordination with the Forest Service, Winter-Spring 2017</p>	<p>See plans for additional details. The Shingletree Trail and new parking area are located approximately between Stations 545 and 555.</p>
Forest Service Owned Property	<p>For areas outside the current design that are owned by the Forest Service, mitigation may be required. The DBT must coordinate all work that is not clearly identified on the current design plans with the Forest Service, and any mitigation that is needed to satisfy the Forest Service.</p>	<p>Coordination with the Forest Service, June 2017</p>	<p>Full length of the Project.</p>
Cultural Resources			
Historic Resource Requirements	<p>If the alignment of the project is modified, additional surveys and determinations may be required. This additional work is the responsibility of the DBT.</p>	<p>2017 Re-Evaluation and companion documents</p>	<p>Areas of alignment shifts that expand the Area of Potential Effect along full length of the Project.</p>

Mitigation Item	Requirements	Information Source	Location
<p>Additional Archaeological Testing Requirements</p>	<p>Archaeological surveys have been conducted within the project area. Seven (7) sites were identified within and adjacent to the project area (Long, Stevens I, Knotts 1, Gnegy North 6, D. Snyder, K. Snyder, and Collette).</p> <p>The Long Site has undergone Phase II National Register investigation and has been determined eligible for listing in the National Register of Historic Places. The Long Site will be fenced and no construction activity may occur within the site.</p> <p>The current project design avoids encroachment on all the known sites and no additional work is required. However, if the DBT changes the alignment such that the project encroaches within the boundaries of one or more site, additional coordination with the WWSHPO and the Forest Service will be required as will additional archaeological investigations. The coordination and additional work will be the responsibility of the DBT.</p> <p>If the DBT proposes disturbance of areas not previously surveyed for the presence/absence of archaeological resources, the DBT, after consultation with the WWSHPO and the Forest Service, will be responsible for conducting appropriate archaeological studies and preparing appropriate reports.</p>	<p>2017 Re-Evaluation and companion documents</p>	<p>Full length of the Project. Existing known sites locations and boundaries will be provided to the DBT.</p>
<p>Hazardous Waste</p>			
<p>Hazardous Waste Site(s)</p>	<p>The project area as defined on project mapping has been surveyed to determine the presence of potential hazardous waste sites and none were found. If the DBT proposes disturbance outside of the project area, the DBT is responsible for surveys and coordination.</p>	<p>2017 Re-Evaluation and companion documents</p>	<p>Full length of the Project.</p>
<p>Evaluation of Changes</p>			

Mitigation Item	Requirements	Information Source	Location
Public Involvement	If the DBT proposes changes to the project that will cause new impacts, those new impacts might require public involvement. Such coordination may include a public meeting with appropriate advanced notice, comment period, and responses to comments in accordance with WVDODH and FHWA policy and guidance. The need for new public involvement will be determined by WVDODH and FHWA, but will be the responsibility of the DBT. Examples of impacts that may require public involvement include (among other potential impacts) a new relocation of a residence or a new impact to a historic site.	FHWA and WVDODH policy to address NEPA and Section 106 public coordination requirements. Also, see above "National Environmental Policy Act (NEPA)."	Full length of the Project.
Re-evaluation	If the DBT proposes changes to the project, those changes need to be discussed with WVDODH and FHWA to determine if they will require a formal, written re-evaluation.	See above "National Environmental Policy Act (NEPA)."	Full length of the Project.

Table 2. Design-Build Rare, Threatened, and Endangered Species Survey Tracking

Resource	Agency	Date of Concurrence	Survey Date	Survey Expiration
Indiana bat	USFWS	January 31, 2017	2016 Mist-netting and Habitat Assessment	May 2021
Northern long-eared bat	USFWS	April 13, 2017	2016 Mist-netting	May 2021
Virginia big-eared bat	USFWS	December 14, 2014	2016 Mist-netting	May 2021
Running buffalo clover	USFWS	August 1, 2016	2016	July 2018*
Small whorled pogonia	USFWS	November 8, 2016	2016	July 2018*
Cheat Mountain salamander	USFWS	December 14, 2014	Habitat suitability inventory conducted in 2001, and no suitable habitat found.	N/A
Migratory Birds	USFWS	April 13, 2017	N/A	N/A
RFSS (other than federally listed species)	US Forest Service	June 24, 2015 (animals) June 3, 2016 (plants)	2012-2014	N/A

Notes: N/A = Not Applicable; RFSS = Regional Forest Sensitive Species; * = USFWS WW Field Office established a 2-year expiration for botanical surveys within the Kerens to Parsons project area because of the past discoveries of listed species in the region.

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