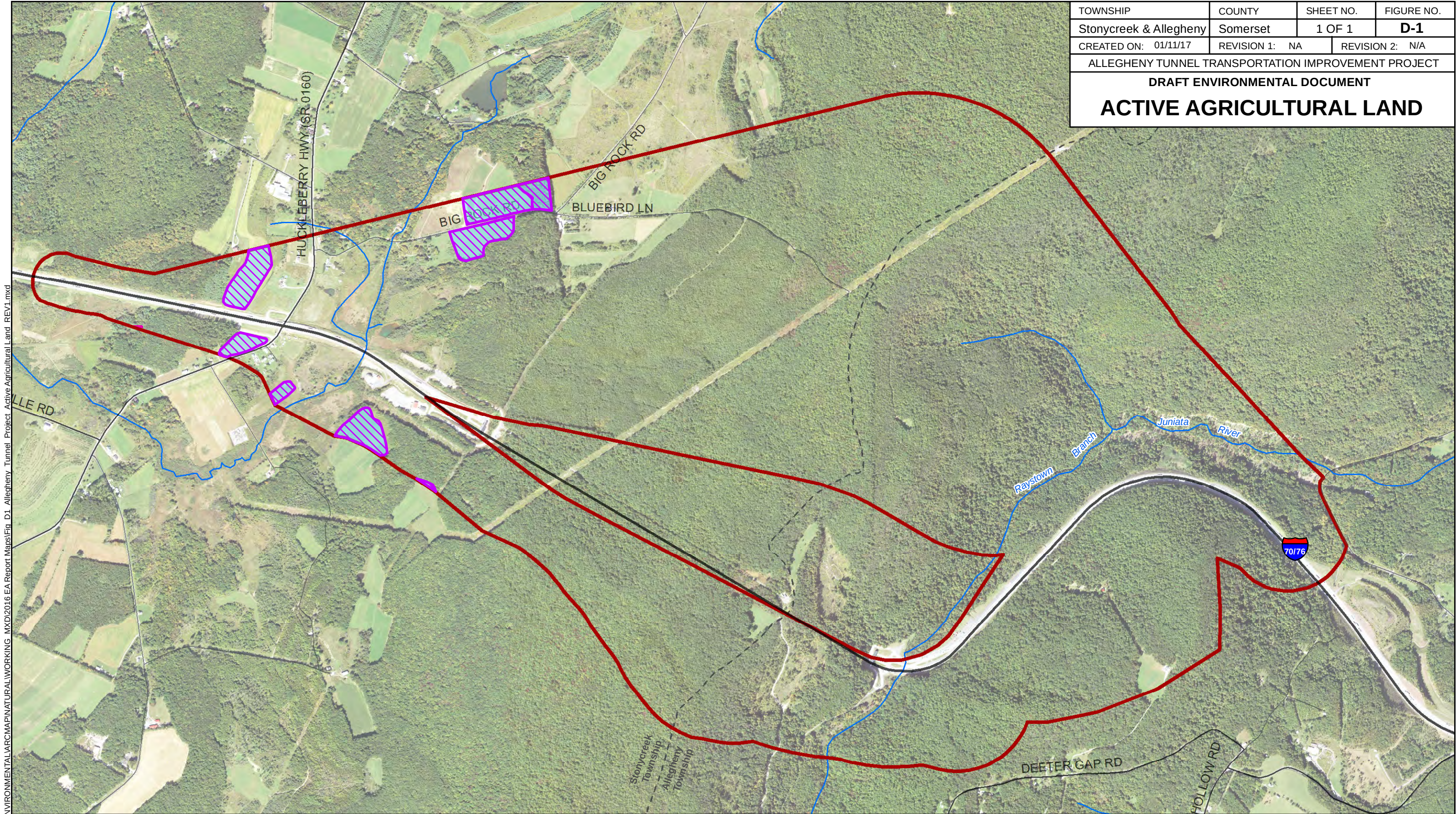


APPENDIX D
AFFECTED ENVIRONMENT FIGURES

Figure D-1
Active Agricultural Land

K:\EBG - PROJ\97-0609\HBB\ENVIRONMENTAL\ARCMAP\NATURAL\WORKING - MXD\2016 EA Report Maps\Fig. D-1 Allegheny Tunnel Project Active Agricultural Land REV1.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-1
CREATED ON: 01/11/17	REVISION 1: NA		REVISION 2: N/A
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT			
ACTIVE AGRICULTURAL LAND			



- Study Area Boundary
- ALPP - Prime Agricultural Land
- Agricultural Security Area
- Act 100 / Act 43 Productive Agricultural Land



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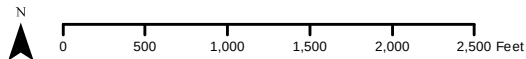
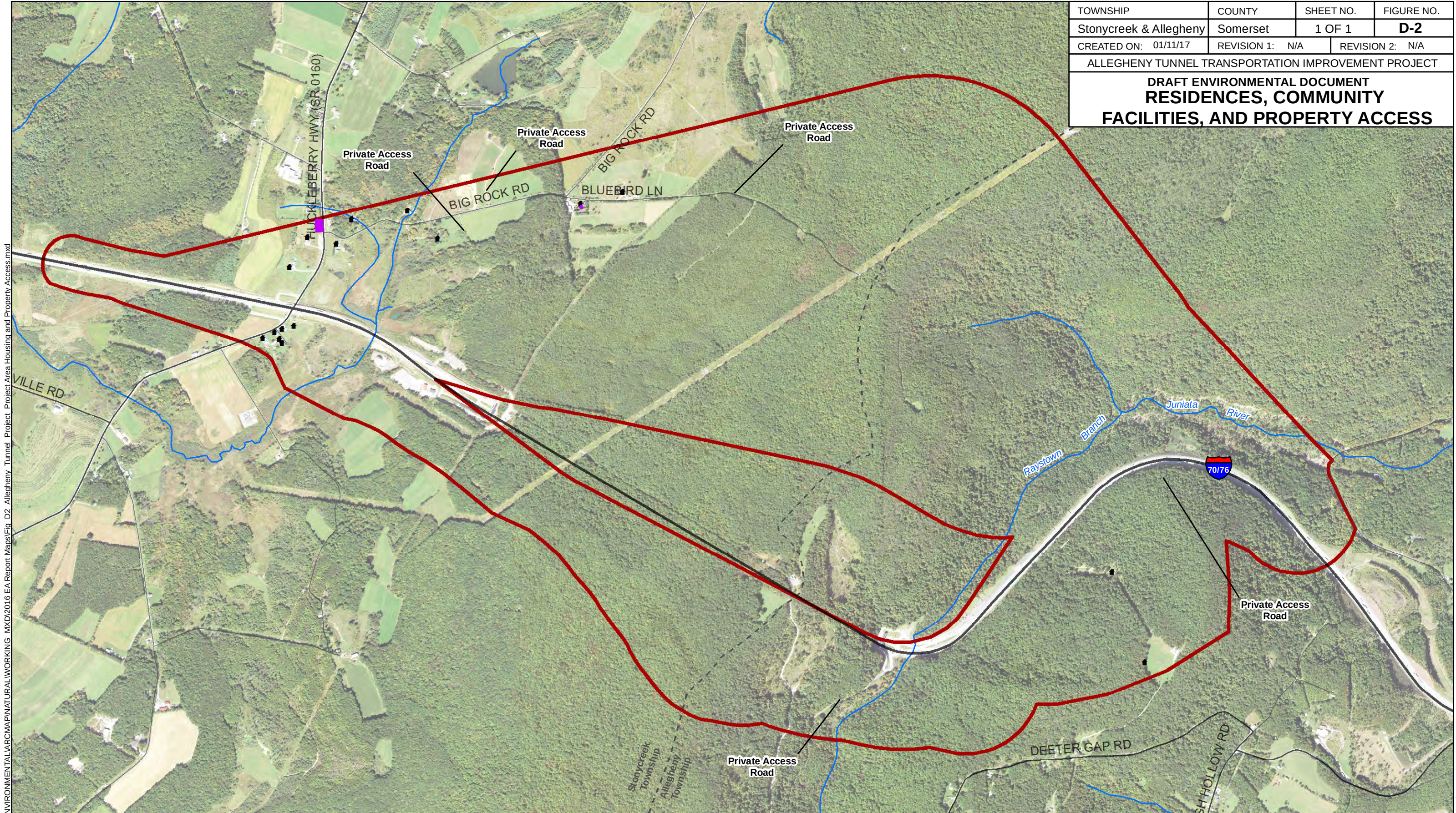
L.R. Kimball

Source: Somerset County, PASDA, USDA

Figure D-2
Residences, Community Facilities, and
Property Access

K:\EBG PROJ\97-0609\HBB\ENVIRONMENTAL\ARCMAP\NATURAL\WORKING MXD\2016 EA Report Maps\Fig D2 Allegheny Tunnel Project Area Housing and Property Access.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-2
CREATED ON: 01/11/17	REVISION 1: N/A	REVISION 2: N/A	
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT RESIDENCES, COMMUNITY FACILITIES, AND PROPERTY ACCESS			



Study Area Boundary Cemetery Structure



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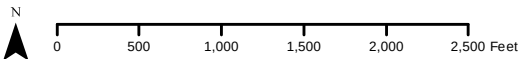
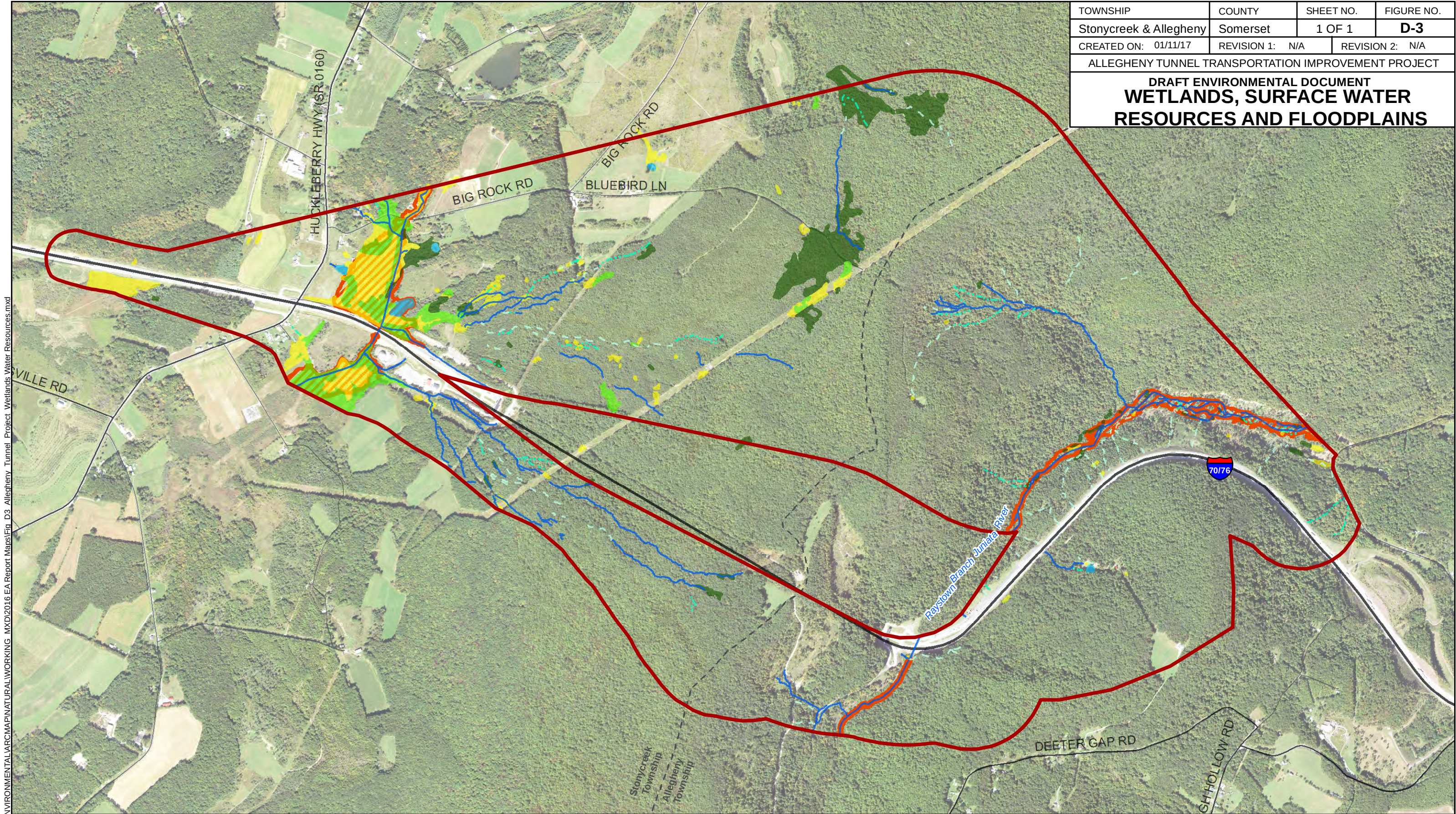
L.R. Kimball

Source: PASDA

Figure D-3
Wetlands, Surface Water Resources, and Floodplains

K:\EBG PROJ\97-0609\HBELE\ENVIRONMENTAL\ARC\MAP\NATURAL\WORKING MXD\2016 EA Report Maps\Fig D3 Allegheny Tunnel Project Wetlands Water Resources.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-3
CREATED ON: 01/11/17		REVISION 1: N/A	REVISION 2: N/A
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT			
WETLANDS, SURFACE WATER			
RESOURCES AND FLOODPLAINS			



- Study Area Boundary
- Floodplain

- Ephemeral Stream
- Intermittent Stream
- Perennial Stream

- Palustrine Emergent Wetland
- Palustrine Forested Wetland
- Palustrine Open Water Wetland
- Palustrine Scrub Shrub Wetland



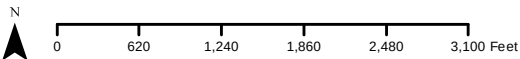
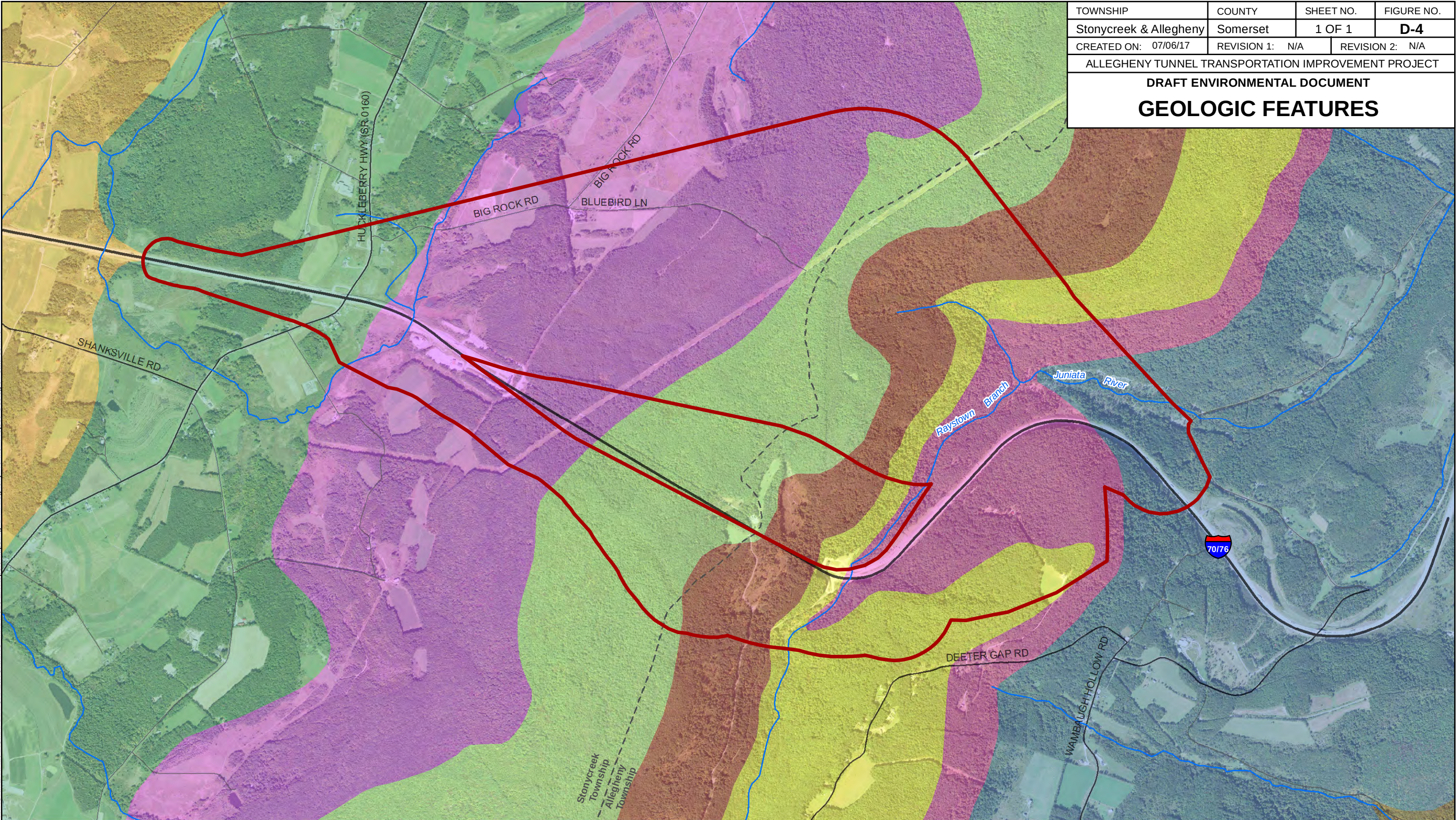
Source: PASDA, FEMA



Figure D-4
Geologic Features

K:\EBG PROJ\97-0609\HBB\ENVIRONMENTAL\ARC\MAP\NATURAL\WORKING MXD\2016 EA Report Maps\Fig D4 Allegheny Tunnel Project Geologic Features.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-4
CREATED ON: 07/06/17	REVISION 1: N/A		REVISION 2: N/A
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT			
GEOLOGIC FEATURES			



- | | | |
|---------------------|---|---------------------|
| Study Area Boundary | Pottsville Formation | Rockwell Formation |
| Casselman Formation | Mauch Chunk Formation with Loyalhana Member | Catskill Formation |
| Glenshaw Formation | Burgoon Sandstone Formation | Foreknobs Formation |
| Allegheny Formation | | |



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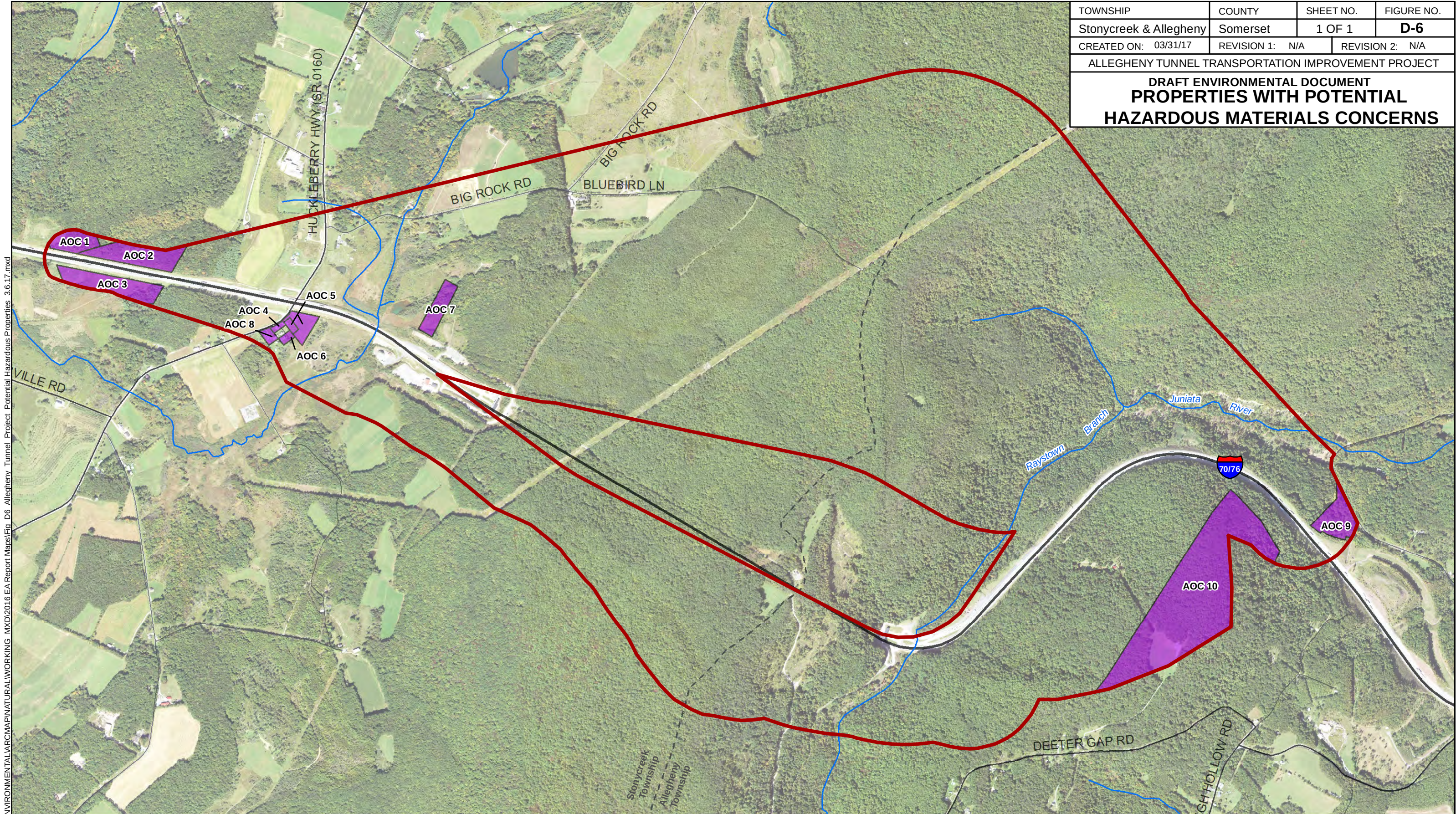
Source: PASDA, USGS

Figure D-5
Project Area Soils

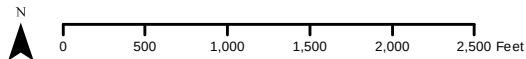
Figure D-6
Properties with Potential Hazardous Materials
Concerns

K:\EBG PROJ\97-0609\HB\ENVIRONMENTAL\ARC\MAP\NATURAL\WORKING MXD\2016 EA Report Maps\Fig D6 Allegheny Tunnel Project Potential Hazardous Properties 3.6.17.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-6
CREATED ON: 03/31/17	REVISION 1: N/A	REVISION 2: N/A	
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT			
PROPERTIES WITH POTENTIAL			
HAZARDOUS MATERIALS CONCERNS			



 Study Area Boundary  Potential Hazardous Materials



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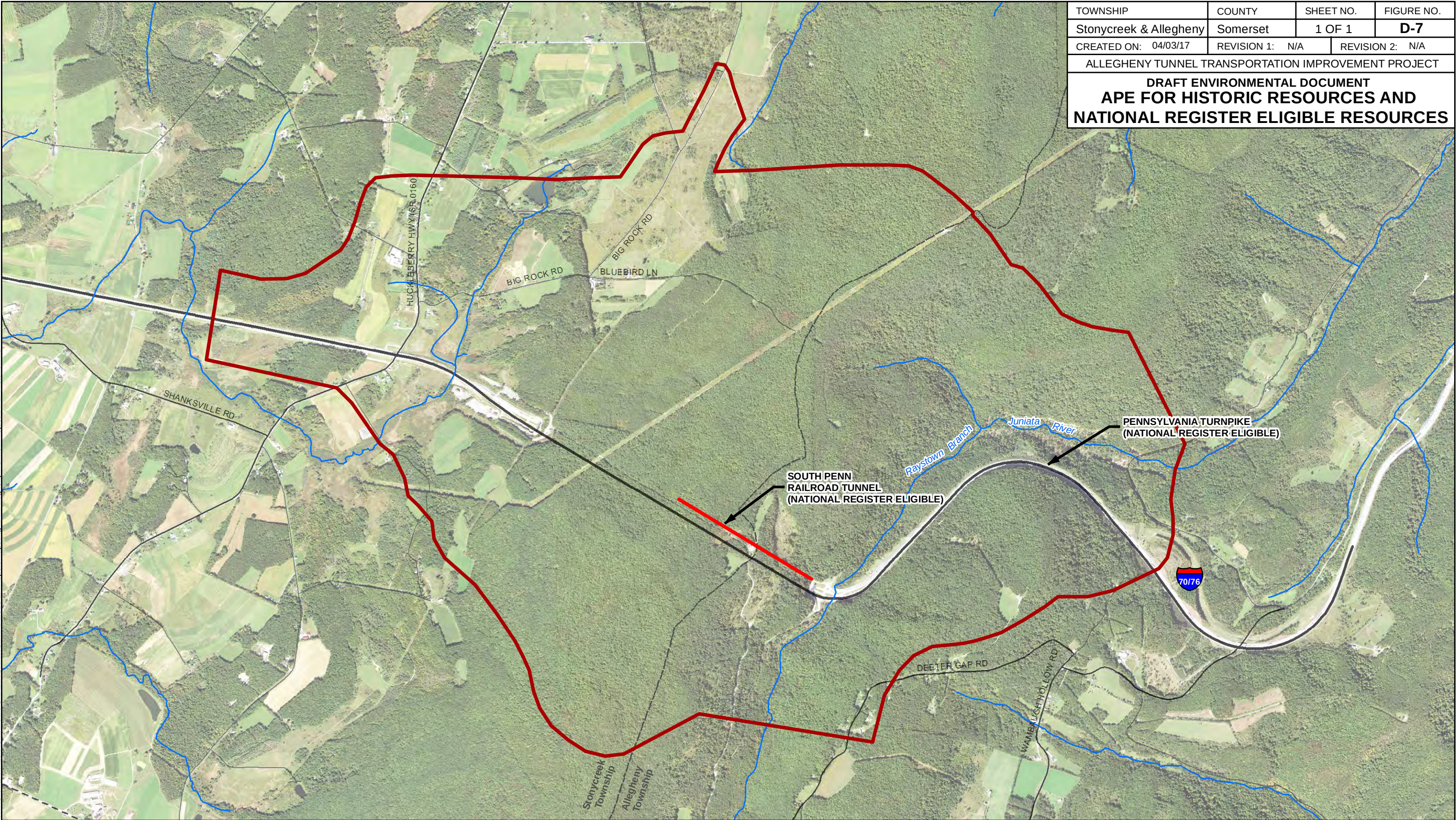
L.R. Kimball

Source: PASDA

Figure D-7
APE for Historic Resources and
National Register Eligible Resources

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TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-7
CREATED ON: 04/03/17		REVISION 1: N/A	REVISION 2: N/A
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT			
APE FOR HISTORIC RESOURCES AND			
NATIONAL REGISTER ELIGIBLE RESOURCES			



 Historic Resources APE



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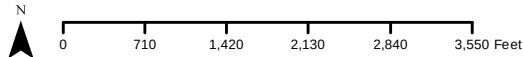
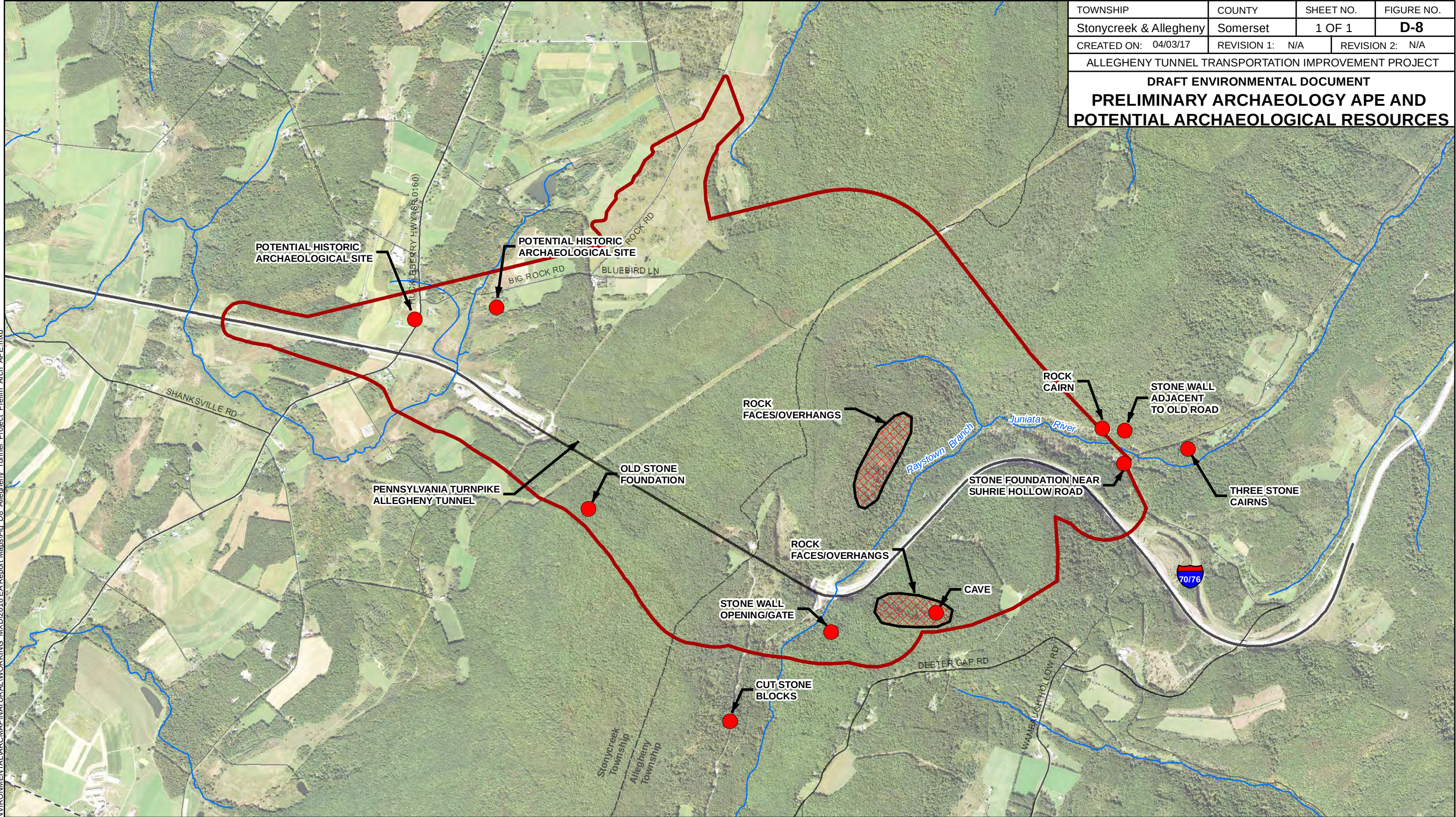
L.R. Kimball

Source: ESRI, Heberling Associates

Figure D-8
Preliminary Archaeology APE and
Potential Archaeological Resources

K:\EBG PROJ\97-0609\HBB\ENVIRONMENTAL\ARCMAP\NATURAL\WORKING MXD\2016 EA Report Maps\Fig D8 Allegheny Tunnel Project Prelim Arch APE.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-8
CREATED ON: 04/03/17		REVISION 1: N/A	REVISION 2: N/A
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT			
PRELIMINARY ARCHAEOLOGY APE AND POTENTIAL ARCHAEOLOGICAL RESOURCES			



- Potential Archaeology Resource Points
- Preliminary Archaeology APE
- Potential Archaeology Resource Areas



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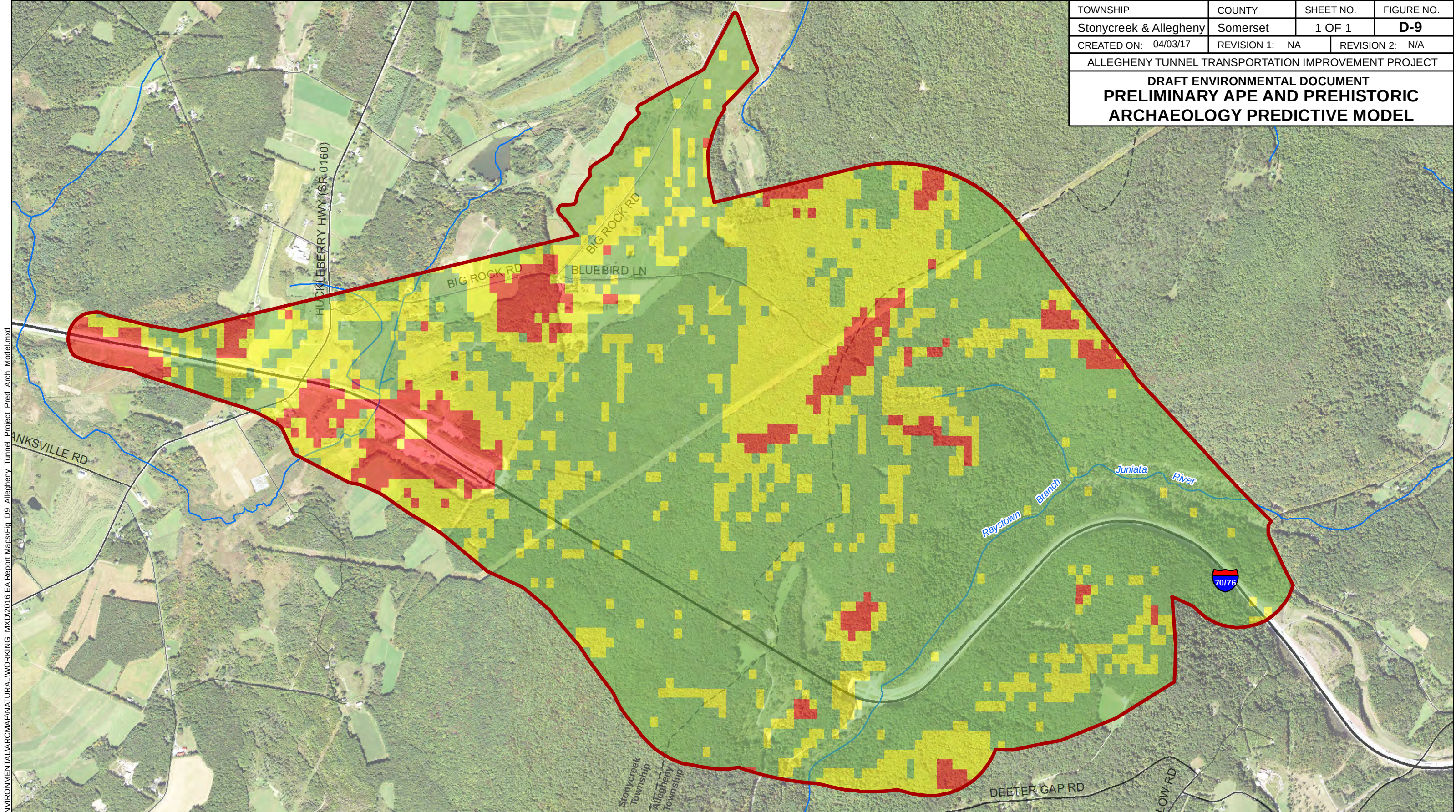
L.R. Kimball

Source: ESRI, Heberling Associates

Figure D-9
Preliminary APE and Prehistoric
Archaeology Predictive Model

K:\EBG_PROJ\97-0609\HBB\ENVIRONMENTAL\ARC\MAP\NATURAL\WORKING_MXD\2016 EA Report Maps\Fig D9 Allegheny Tunnel Project_Pred Arch Model.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-9
CREATED ON: 04/03/17	REVISION 1: NA	REVISION 2: N/A	
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT PRELIMINARY APE AND PREHISTORIC ARCHAEOLOGY PREDICTIVE MODEL			



-  Preliminary Archaeology APE
-  Low Probability of Prehistoric Archaeology
-  Medium Probability of Prehistoric Archaeology
-  High Probability of Prehistoric Archaeology



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Source: ESRI, CGIS

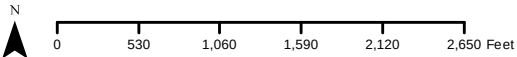
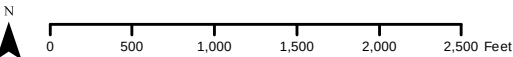
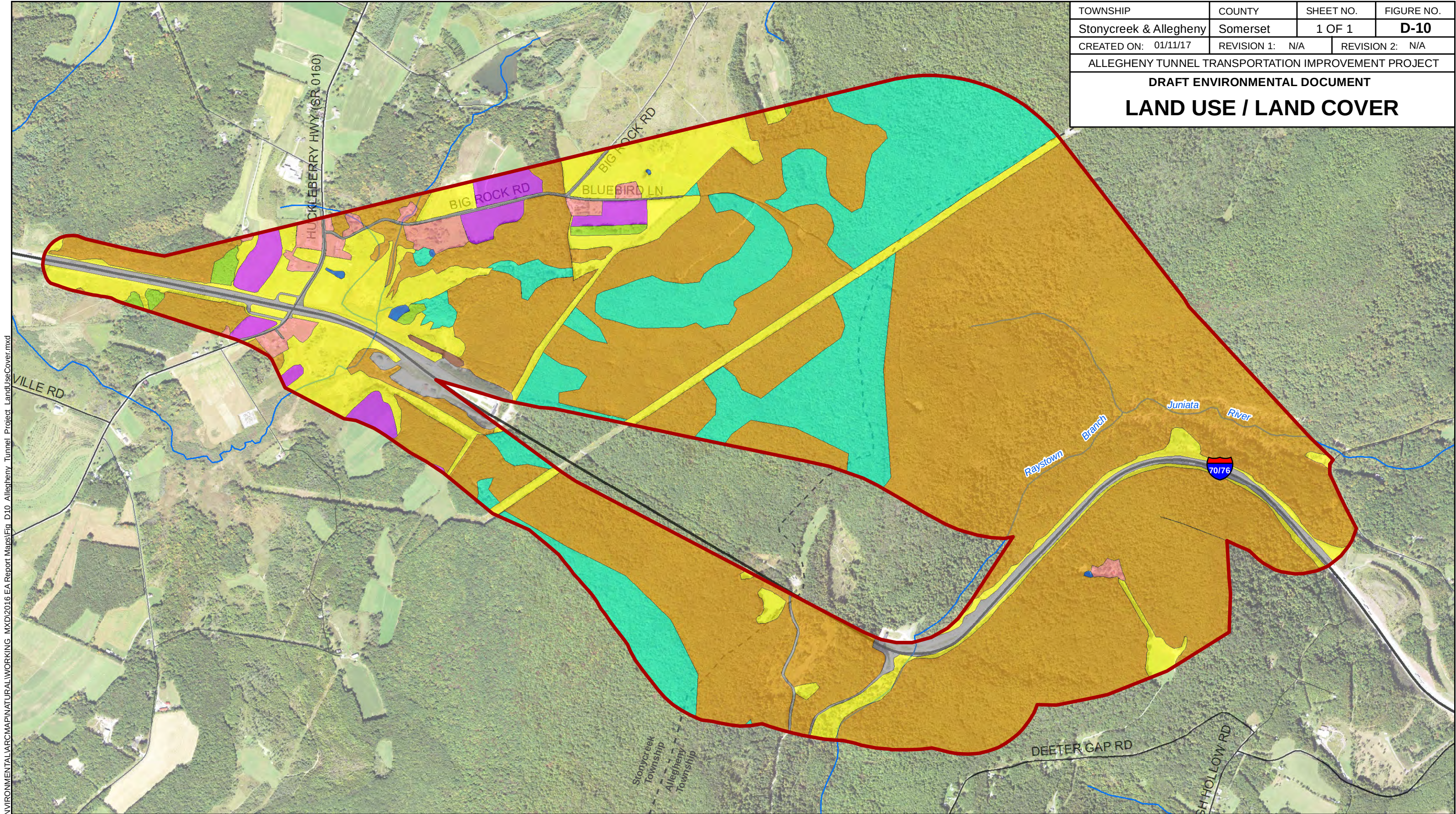


Figure D-10
Land Use / Land Cover

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TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-10
CREATED ON: 01/11/17	REVISION 1: N/A		REVISION 2: N/A
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT			
LAND USE / LAND COVER			



- | | | |
|---------------------|-----------------|--|
| Study Area Boundary | Transportation | Barren Land |
| Rangeland | Active Farmland | Forest (Deciduous) |
| Residential | Water | Forest (Evergreen) |
| | | Forest (Mixed Deciduous and Evergreen) |



Source: PASDA

Figure D-11
Noise Study Area Locations

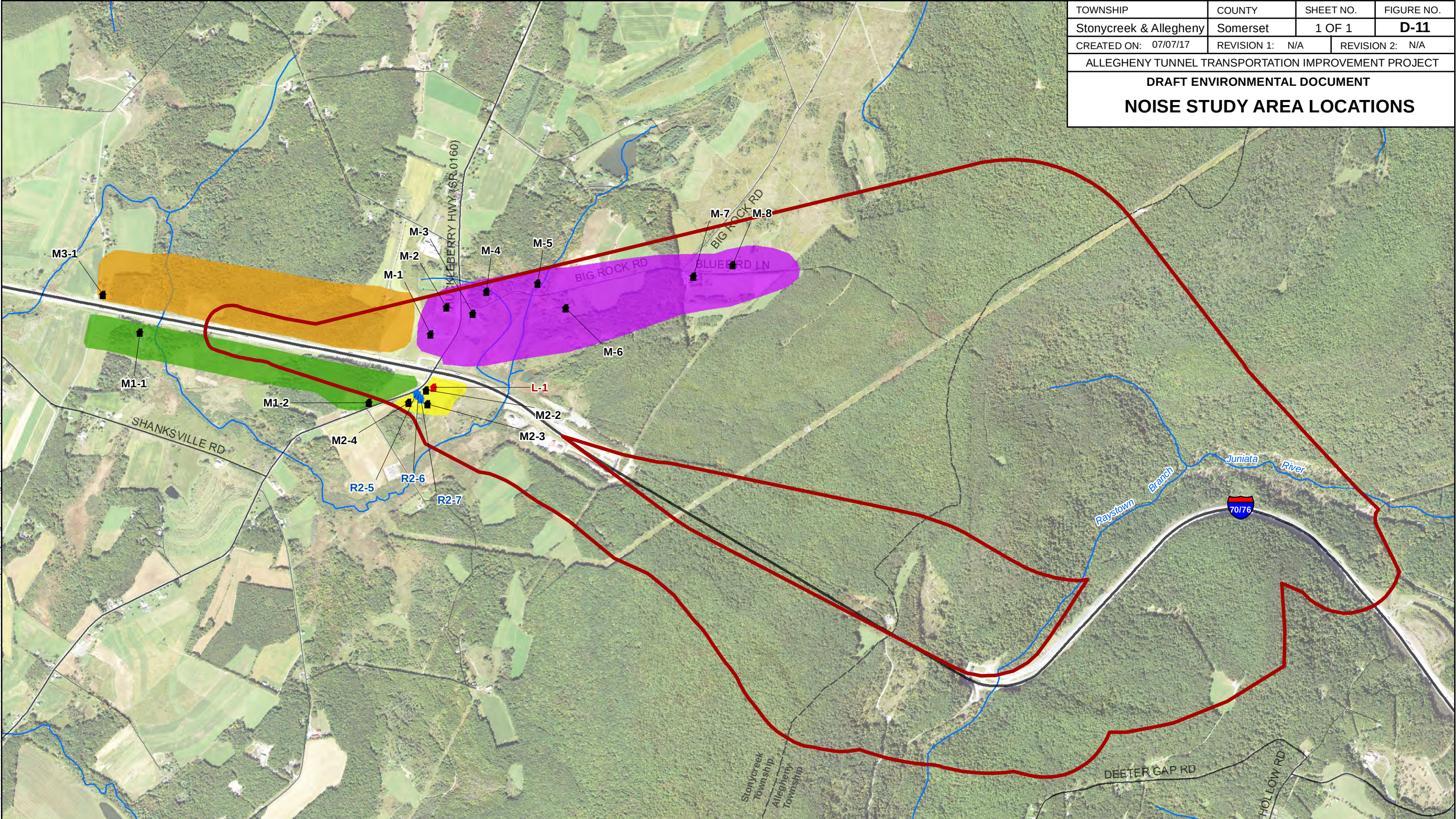
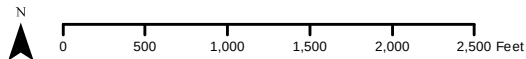
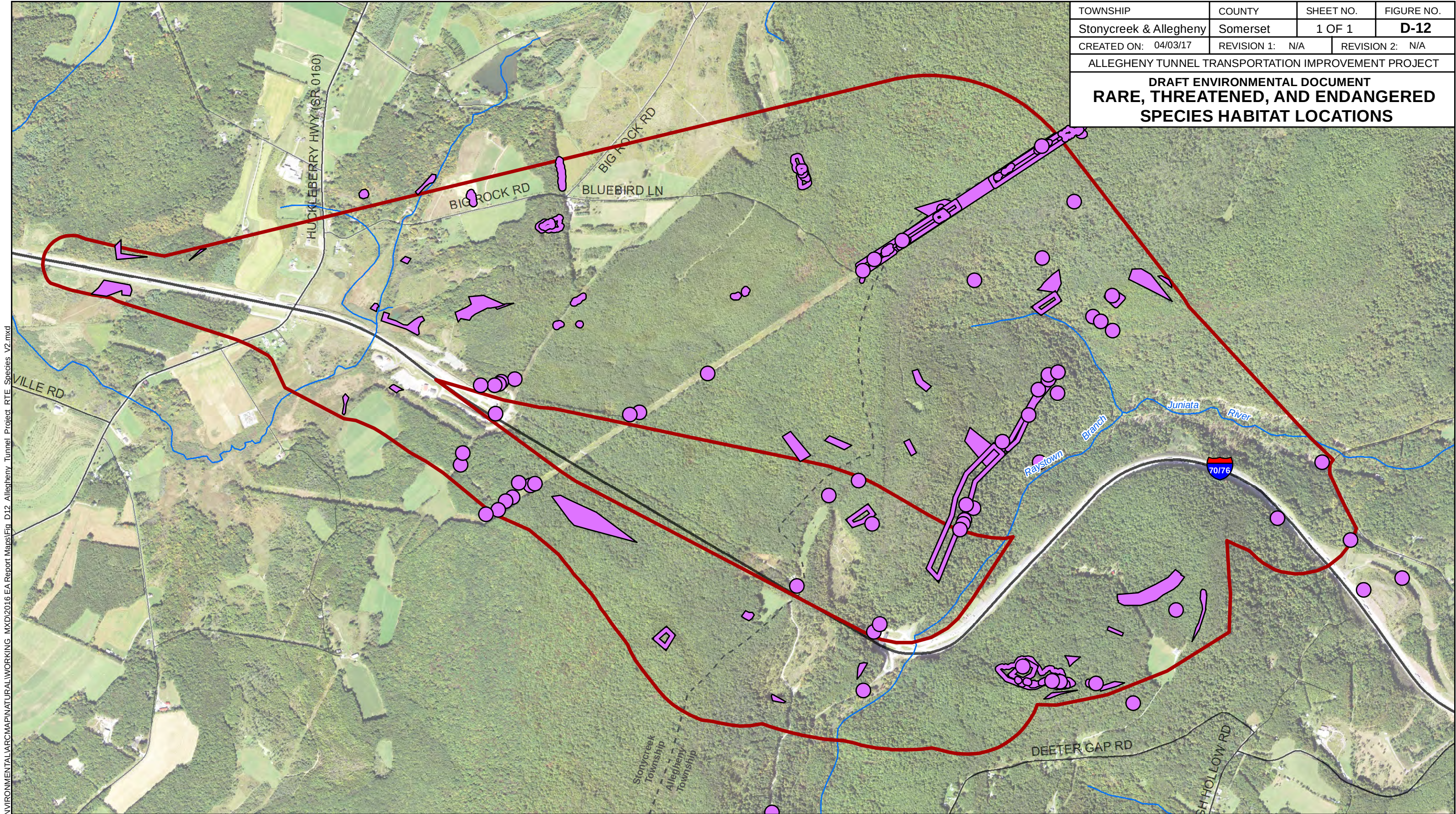


Figure D-12
Rare, Threatened, and Endangered Species
Habitat Locations

K:\EBG_PROJ\97-0609\HBB\ENVIRONMENTAL\ARC\MAP\NATURAL\WORKING_MXD\2016 EA Report Maps\Fig. D-12 Allegheny Tunnel Project RTE Species V2.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-12
CREATED ON: 04/03/17	REVISION 1: N/A		REVISION 2: N/A
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT RARE, THREATENED, AND ENDANGERED SPECIES HABITAT LOCATIONS			



Study Area Boundary

Threatened and Endangered Species

Critical Habitat and Populations



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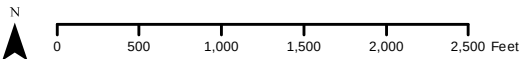
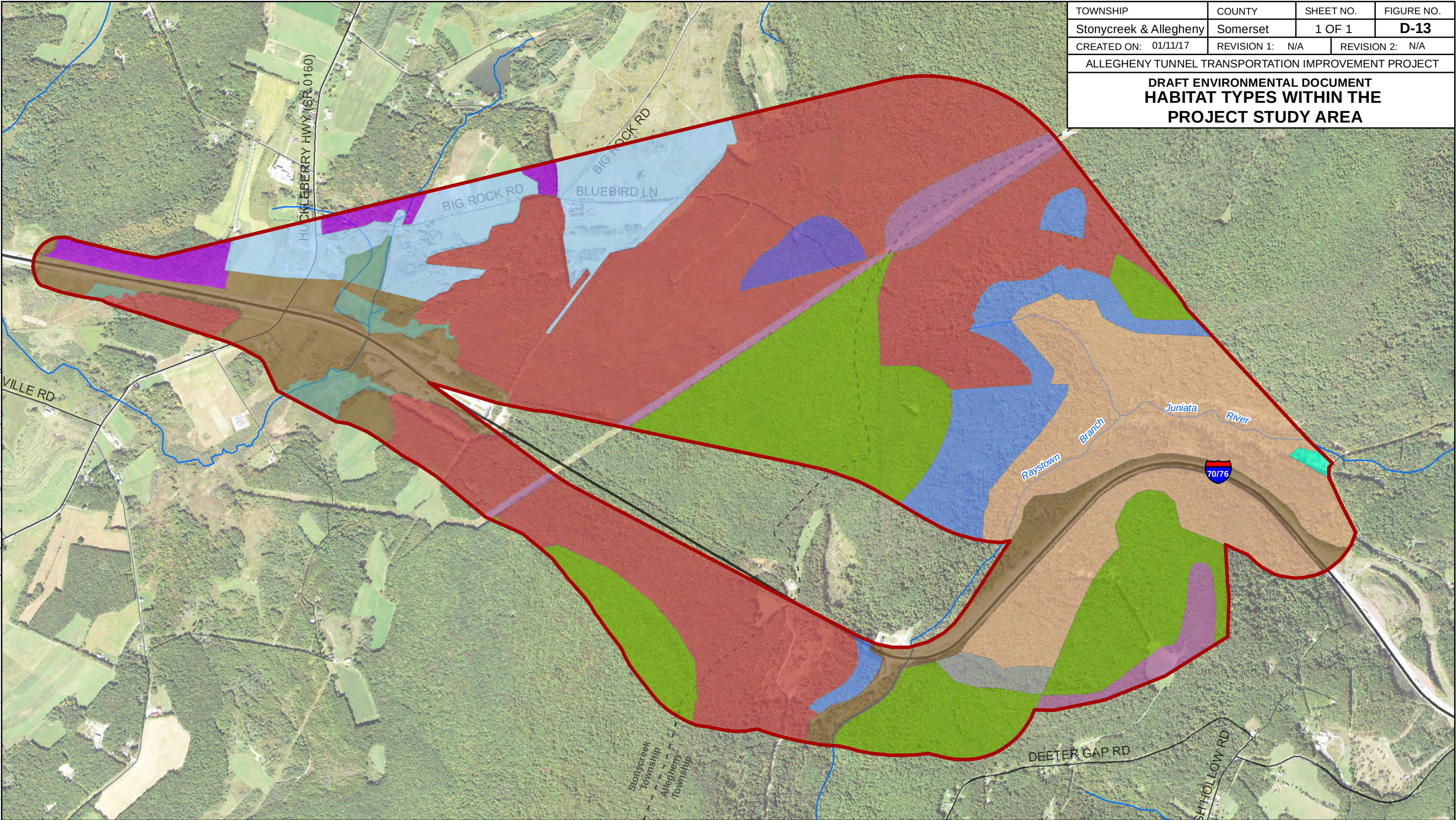
L.R. Kimball

Source: PASDA

Figure D-13
Habitat Types Within the Project Study Area

K:\EBG - PROJ\97-06\09\HBB\ENVIRONMENTAL\ARC\MAP\NATURAL\WORKING - MXD\2016 EA Report Maps\Fig. D-13 Allegheny Tunnel Project Habitat Types.mxd

TOWNSHIP	COUNTY	SHEET NO.	FIGURE NO.
Stonycreek & Allegheny	Somerset	1 OF 1	D-13
CREATED ON: 01/11/17	REVISION 1: N/A	REVISION 2: N/A	
ALLEGHENY TUNNEL TRANSPORTATION IMPROVEMENT PROJECT			
DRAFT ENVIRONMENTAL DOCUMENT HABITAT TYPES WITHIN THE PROJECT STUDY AREA			



- HABITAT 1: Bottomland Wetland
- HABITAT 2: Sugar Maple - Black Cherry Forest
- HABITAT 3: Red Oak - Red Maple - Black Cherry Forest
- HABITAT 4: Calcareous Mixed Hardwoods Forest

- HABITAT 5: Exposed Rock Outcrop and Cliffs
- HABITAT 6: Tulip Poplar - Sugar Maple - Red Oak - Black Cherry Forest
- HABITAT 7: Chestnut Oak - Red Maple - Black Cherry - Blueberry Forest
- HABITAT 8: Red Oak - Red Maple - Black Cherry - Mtn. Laurel Forest

- HABITAT 9: Reverting Meadow
- HABITAT 10: Forested Wetland
- HABITAT 11: Modified Upland Field
- HABITAT 12: Miscellaneous

Study Area Boundary



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Source: PASDA