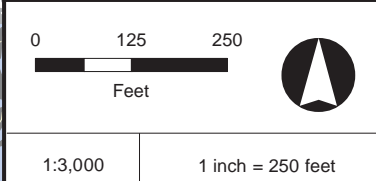


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○ Milepost	--- Flow Path	Land Cover	■ Developed, Open Space
▭ Permanent Access Road ROW	— Major Contour	■ Agriculture	■ Forest
▭ Pipeline ROW	— Minor Contour	■ Developed, High Intensity	■ Gravel
▭ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			



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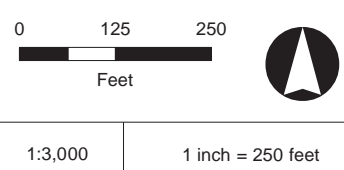
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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DRAWN BY: TG



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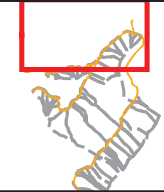


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Forest
 - Gravel
 - Agriculture
 - Developed, Open Space

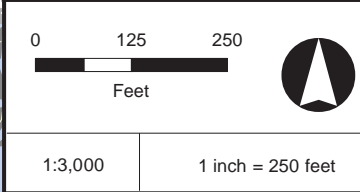
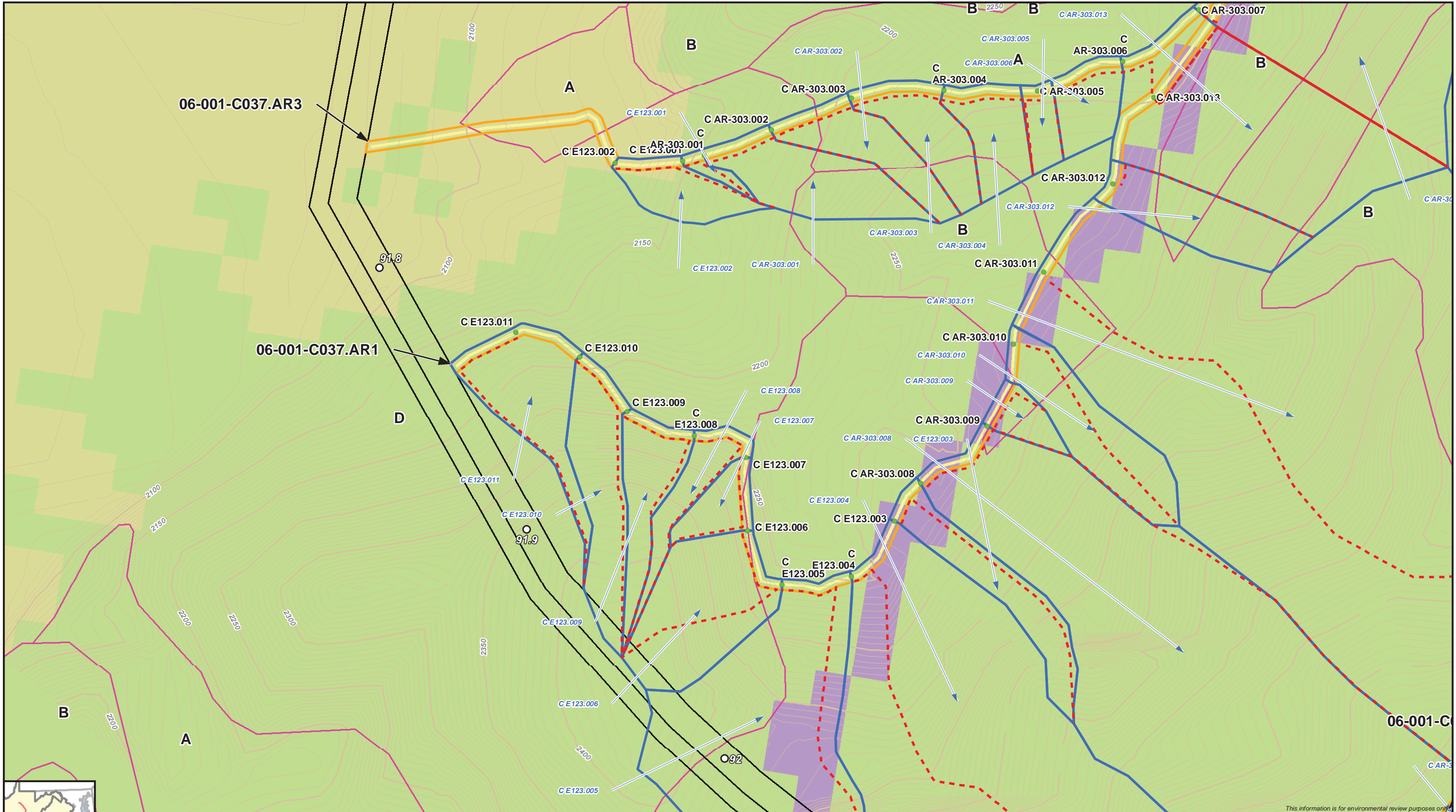
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



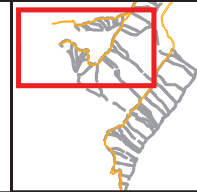
DRAWN BY: TG



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

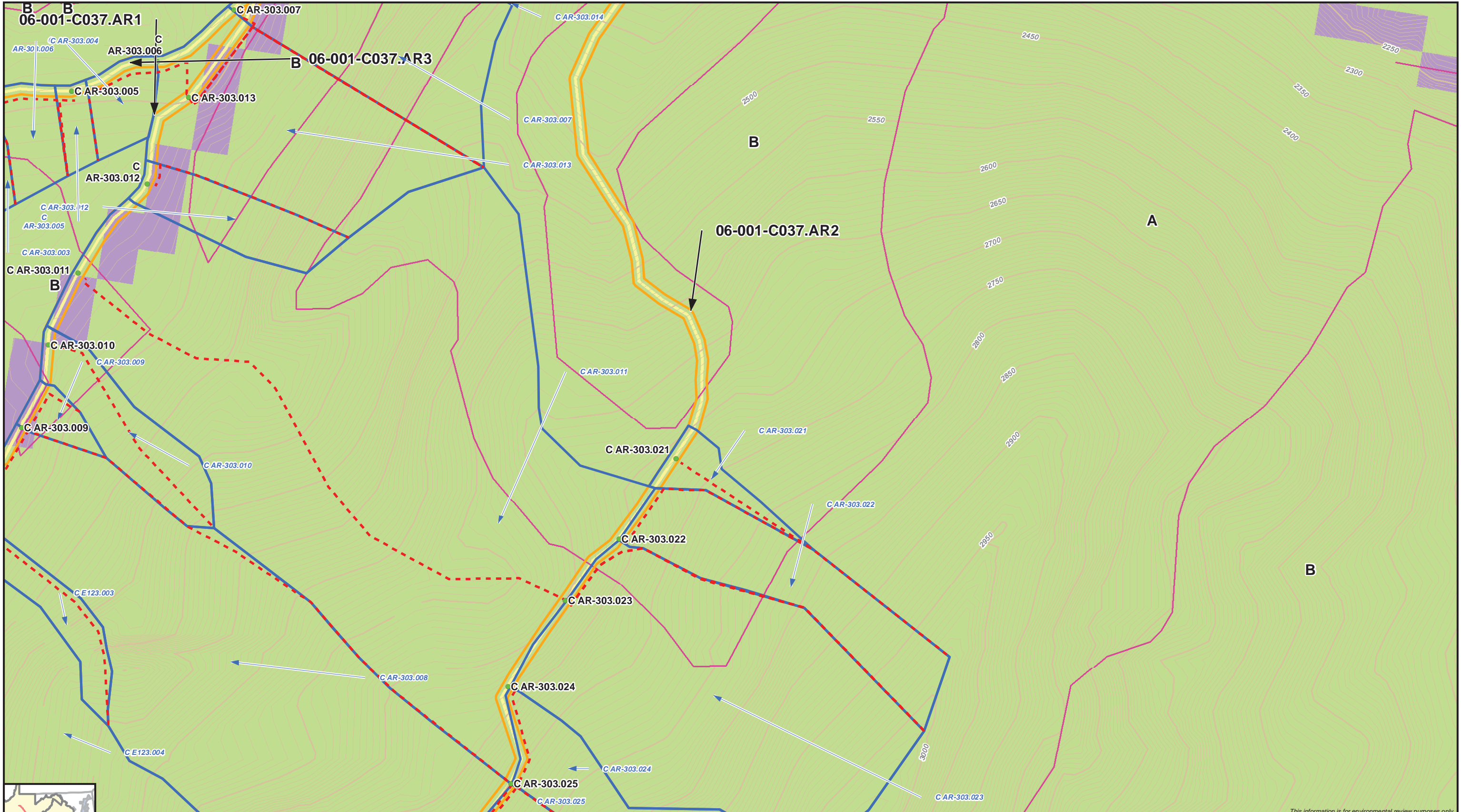
- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group
- ▭ Land Cover
 - ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel

Access Road Key →

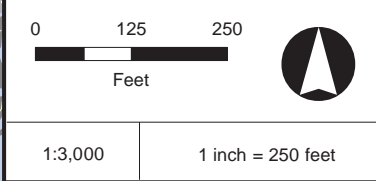
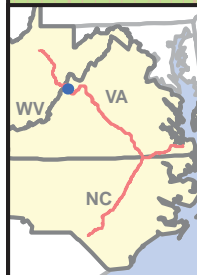


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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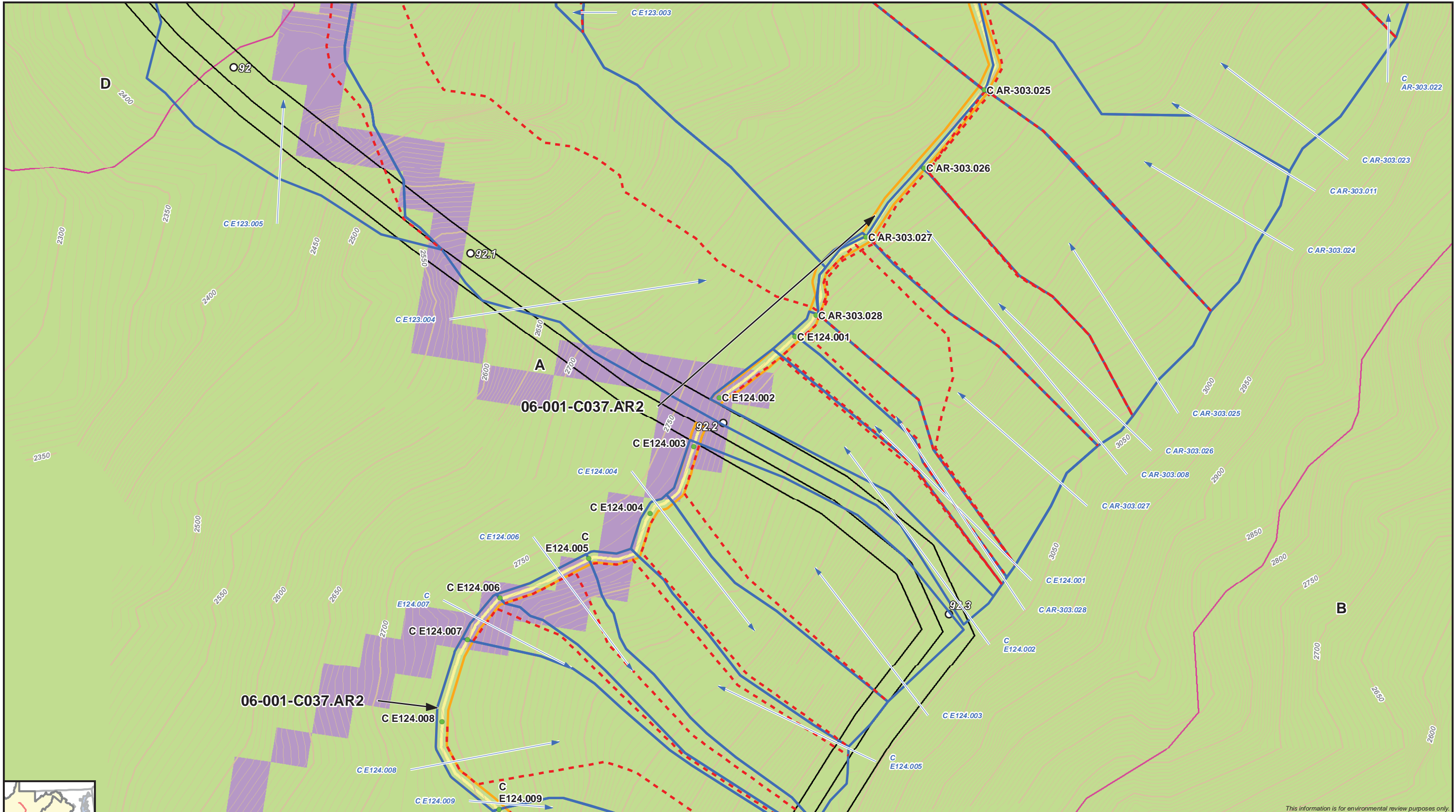
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|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Gravel |
| Culvert | Minor Contour | Hydrologic Soil Group | |

Access Road Key →

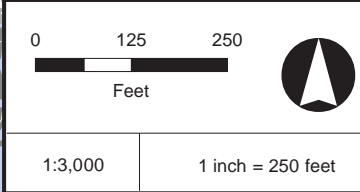


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



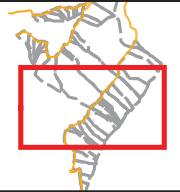


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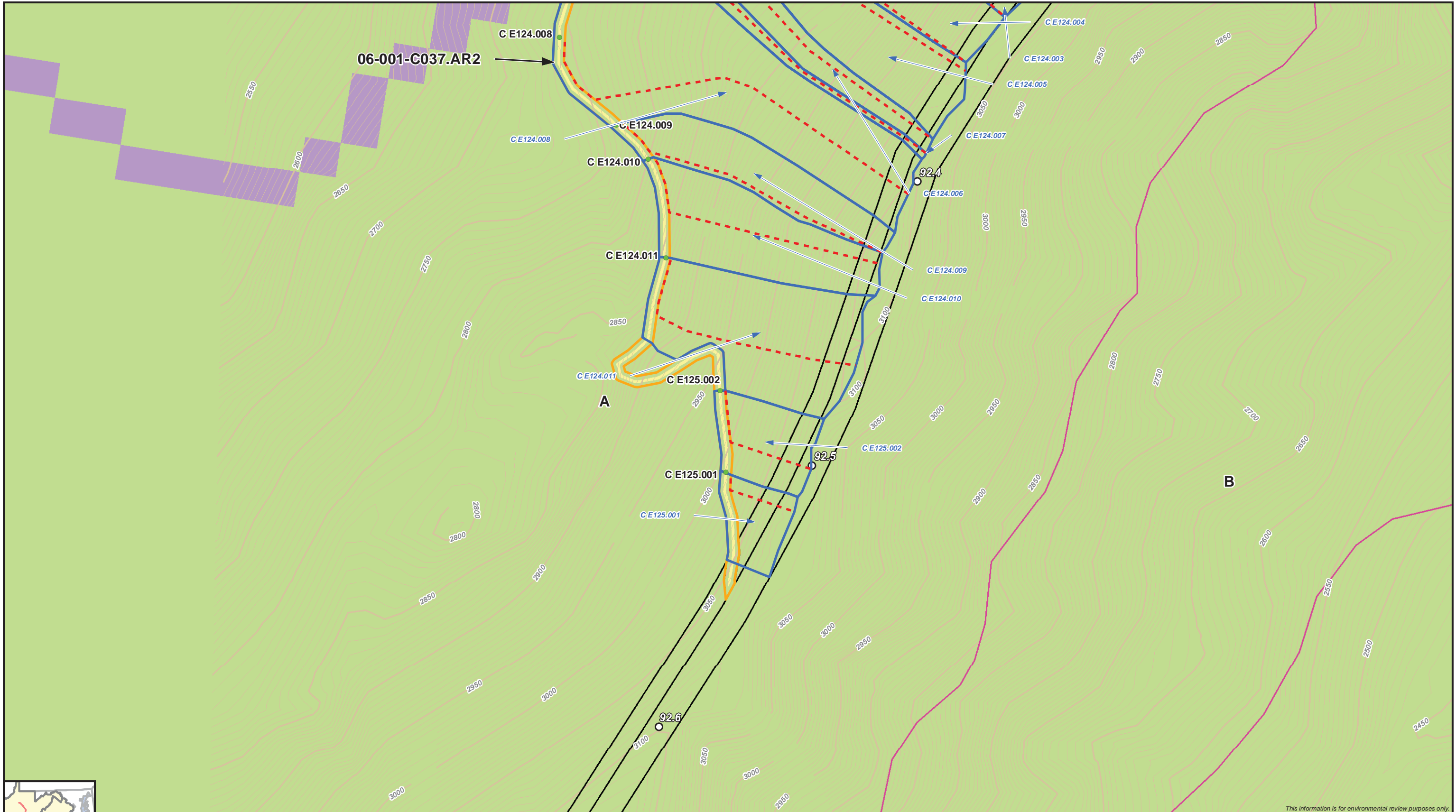
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|-----------------------------|-------------------|-------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Forest |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | ■ Gravel |
| ▭ Pipeline ROW | --- Minor Contour | ■ Hydrologic Soil Group | |
| ▭ Culvert Drainage Area | ● Culvert | | |

Access Road Key →

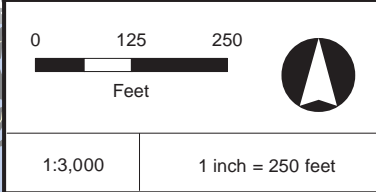


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

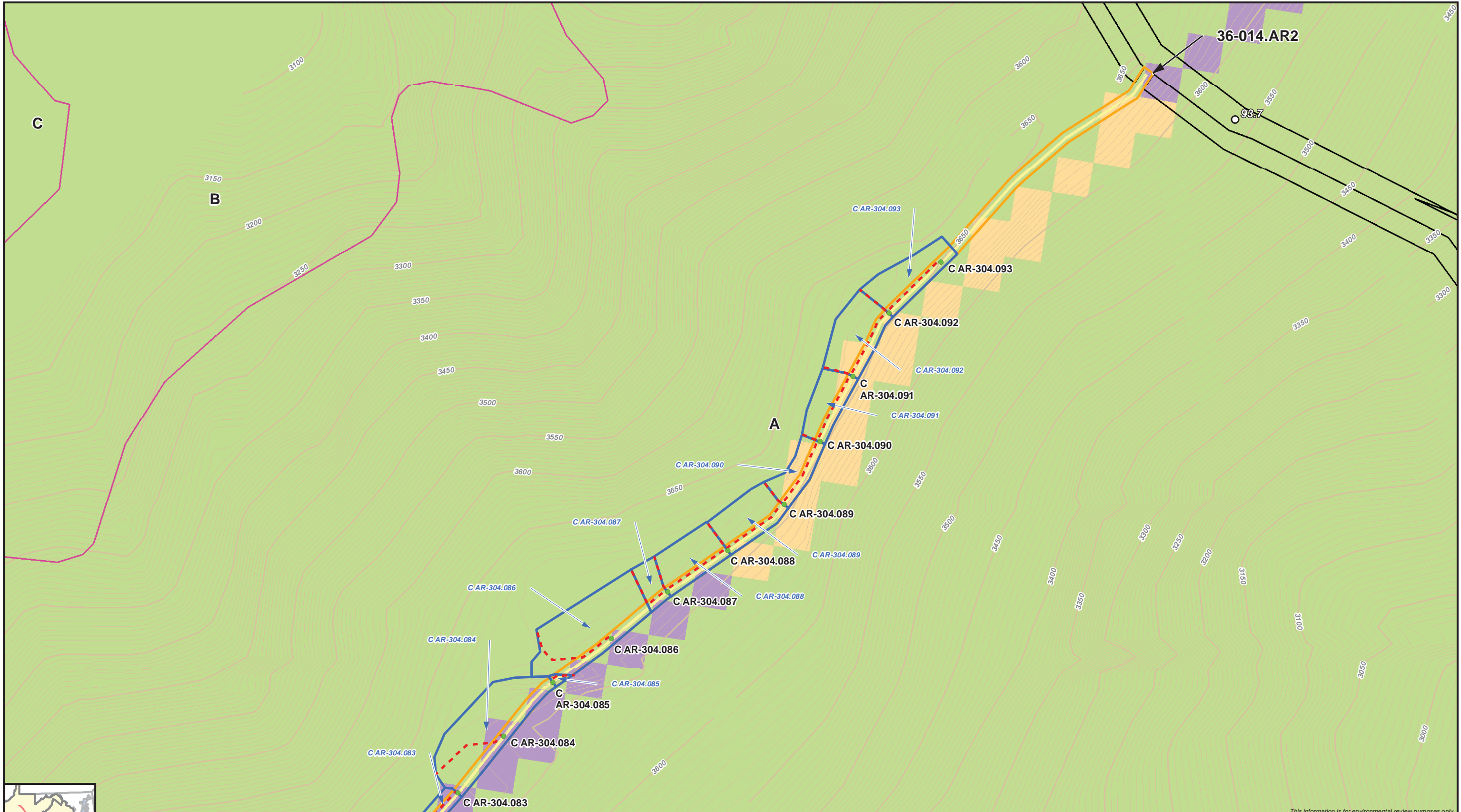
- Land Cover**
- ▭ Forest
 - ▭ Developed, Open Space
 - ▭ Gravel

Access Road Key →

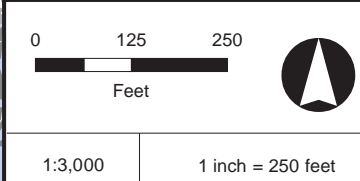


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

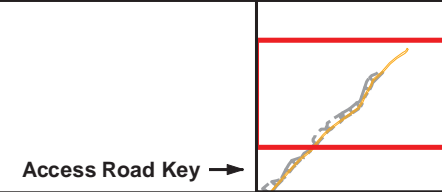




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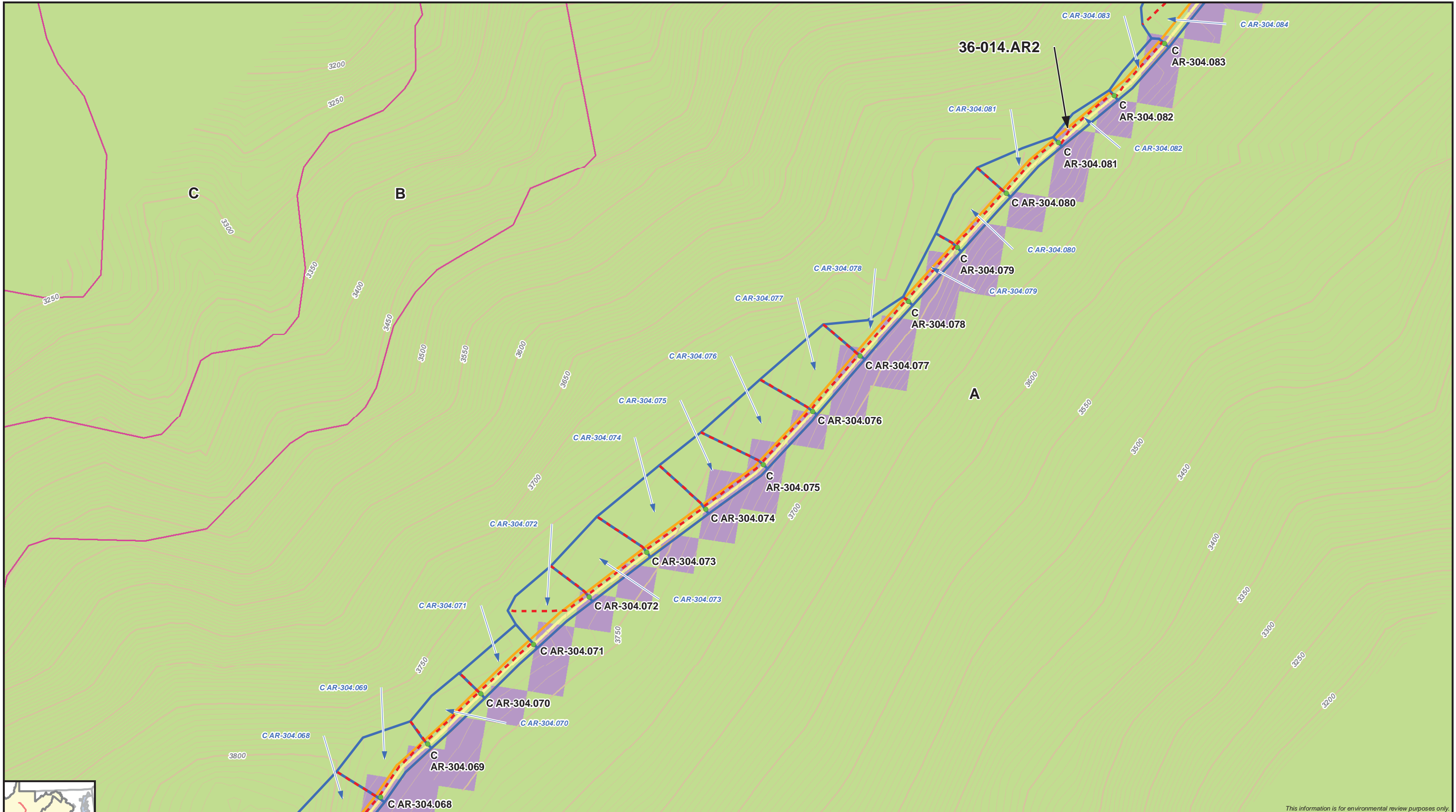


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|-----------------------------|-------------------------|-------------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Forest |
| ■ Permanent Access Road ROW | — Major Contour | ■ Developed, Medium Intensity | ■ Gravel |
| ■ Pipeline ROW | — Minor Contour | ■ Developed, Open Space | |
| ■ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

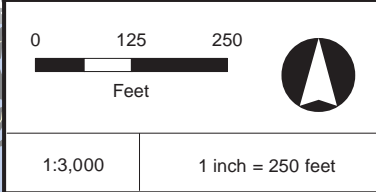


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

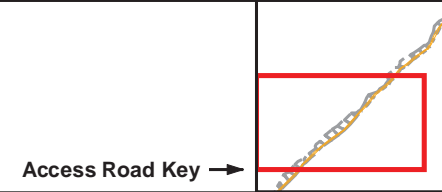




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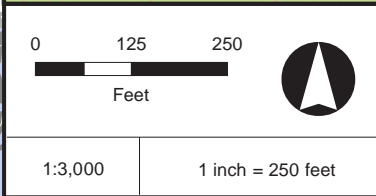
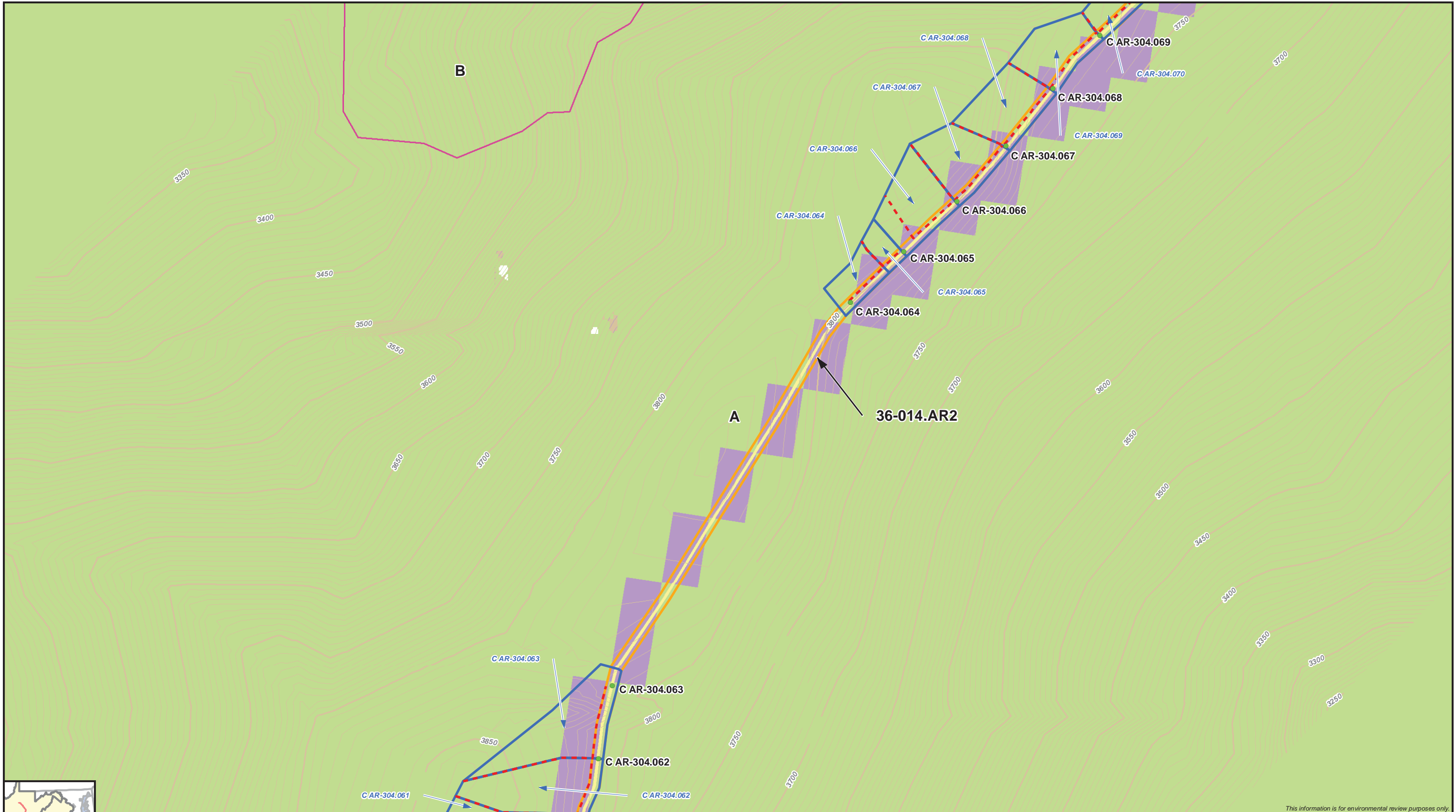


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|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Gravel |
| Culvert | Minor Contour | Hydrologic Soil Group | |

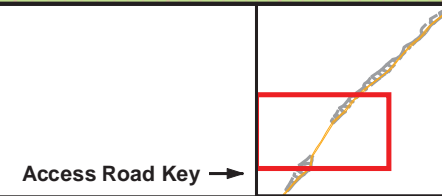


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



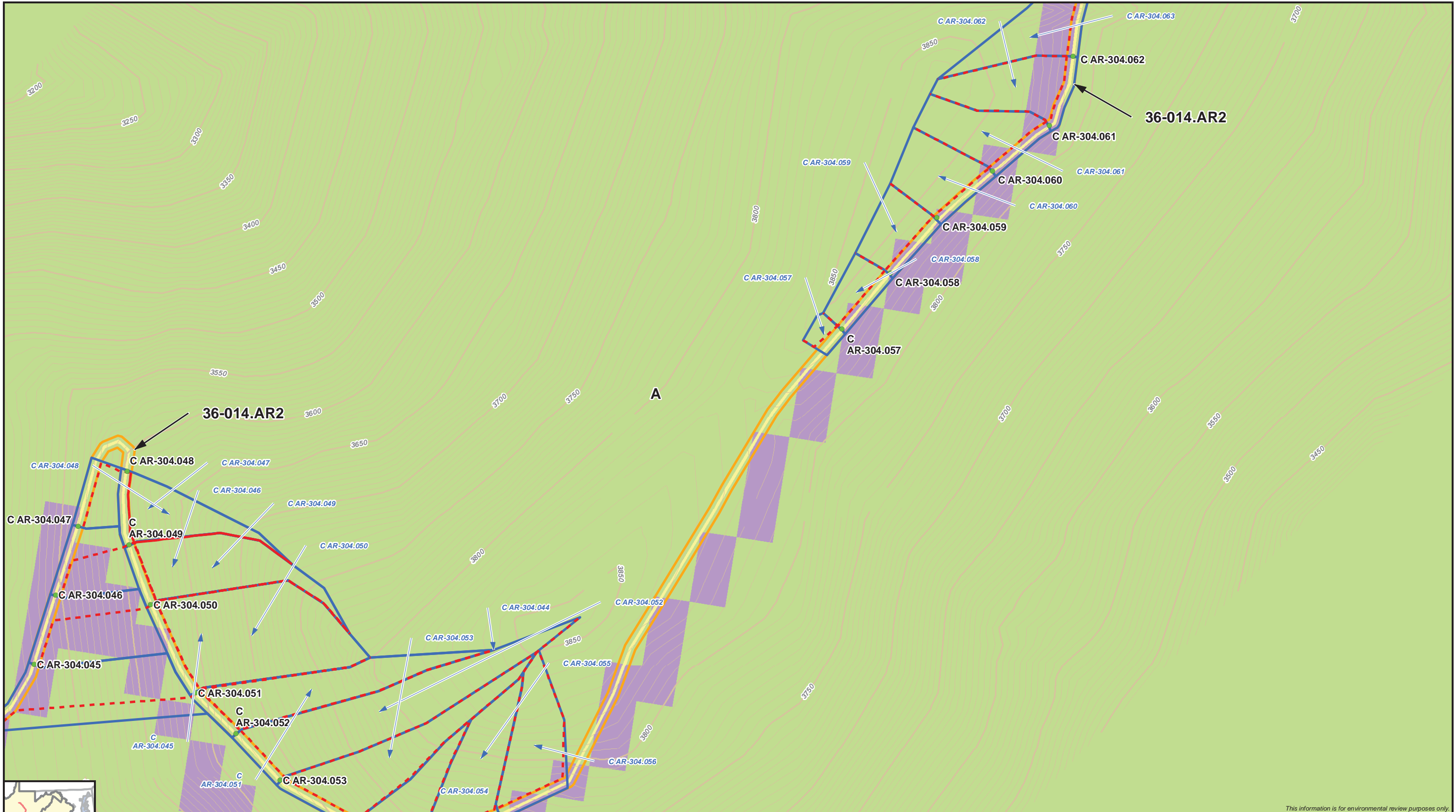


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|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Gravel |
| Culvert | Minor Contour | Hydrologic Soil Group | |

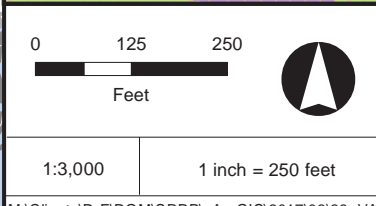
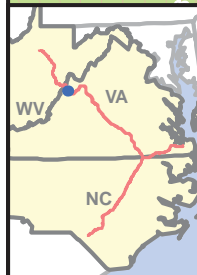


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

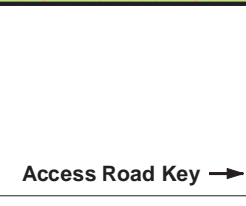




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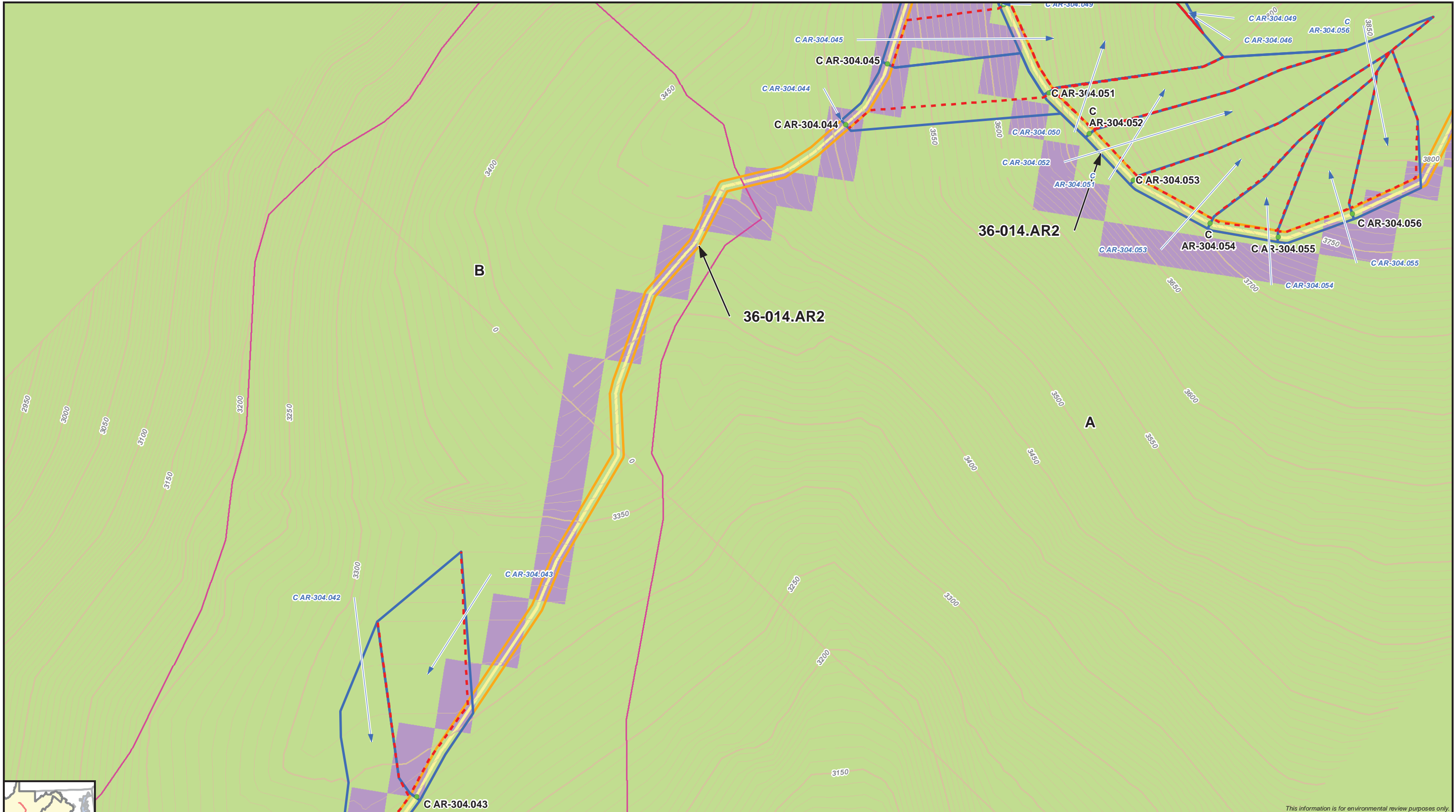


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|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Gravel |
| Culvert | Minor Contour | Hydrologic Soil Group | |

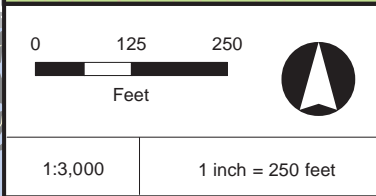


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

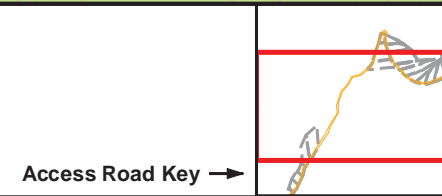




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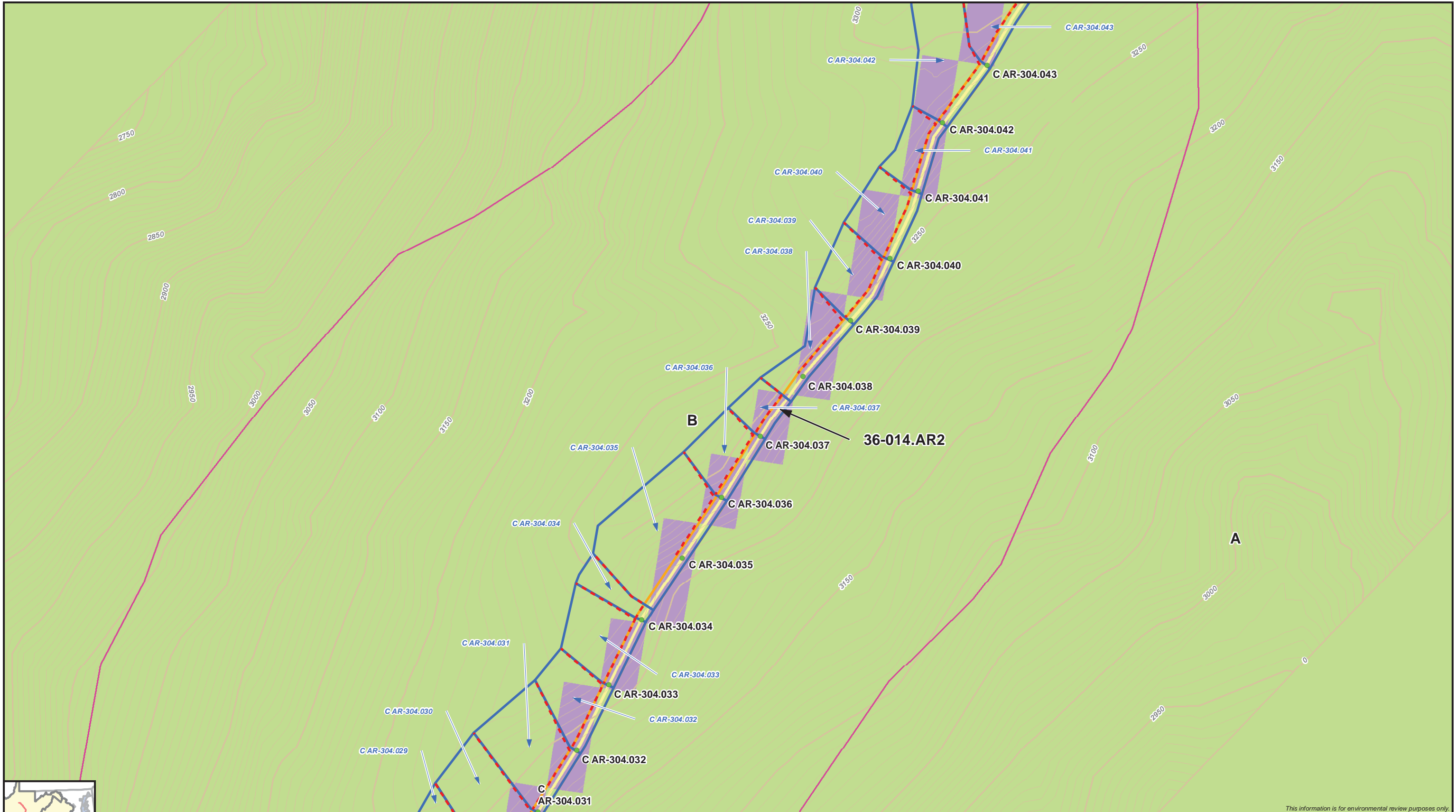


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|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Gravel |
| Culvert | Minor Contour | Hydrologic Soil Group | |

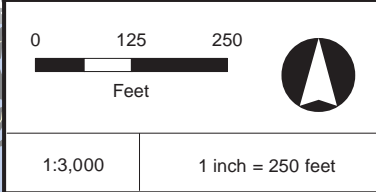


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

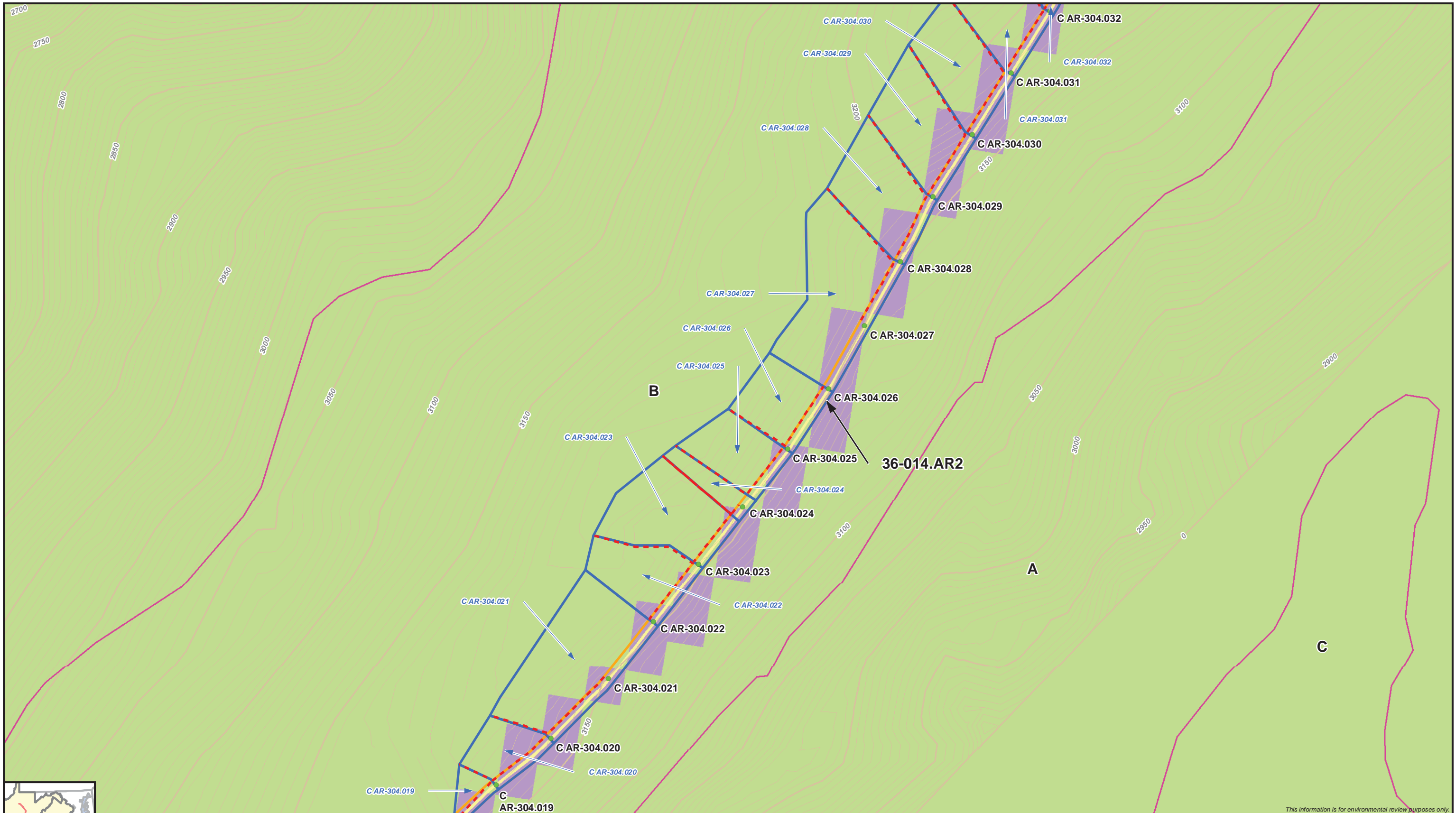
- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

- Land Cover**
- Developed, Open Space
 - Forest
 - Gravel

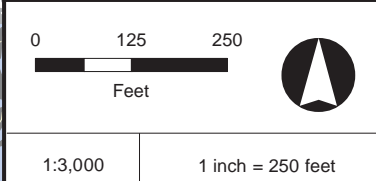
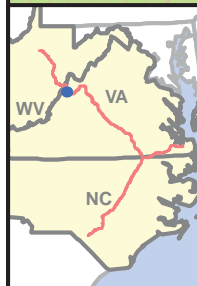


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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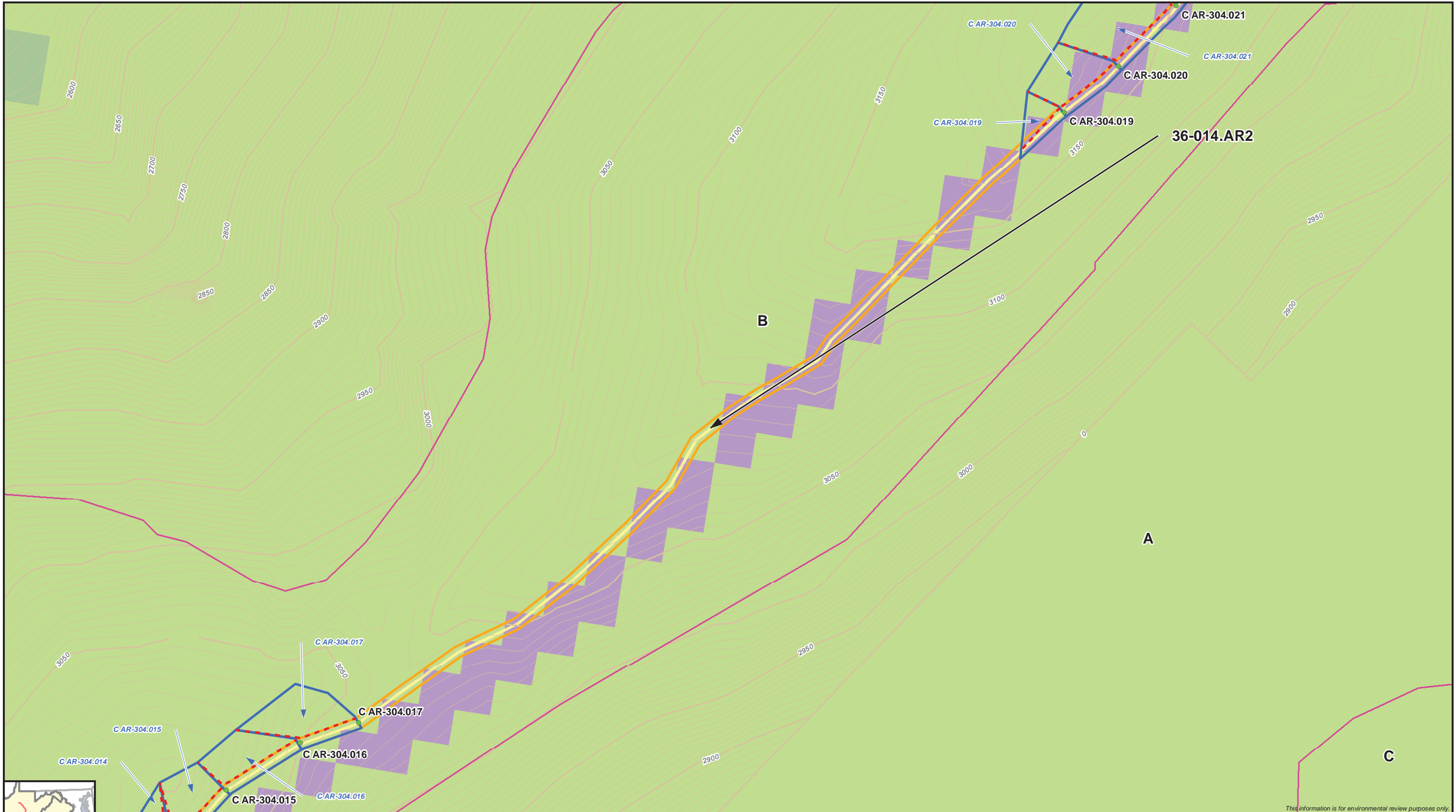


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|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Gravel |
| Culvert | Minor Contour | Hydrologic Soil Group | |

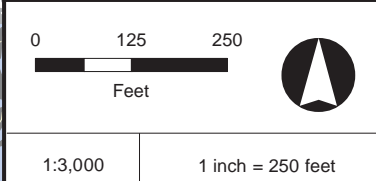


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Hydrologic Soil Group

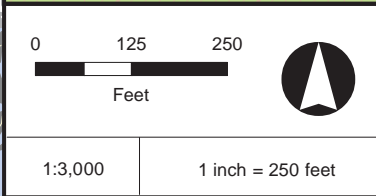
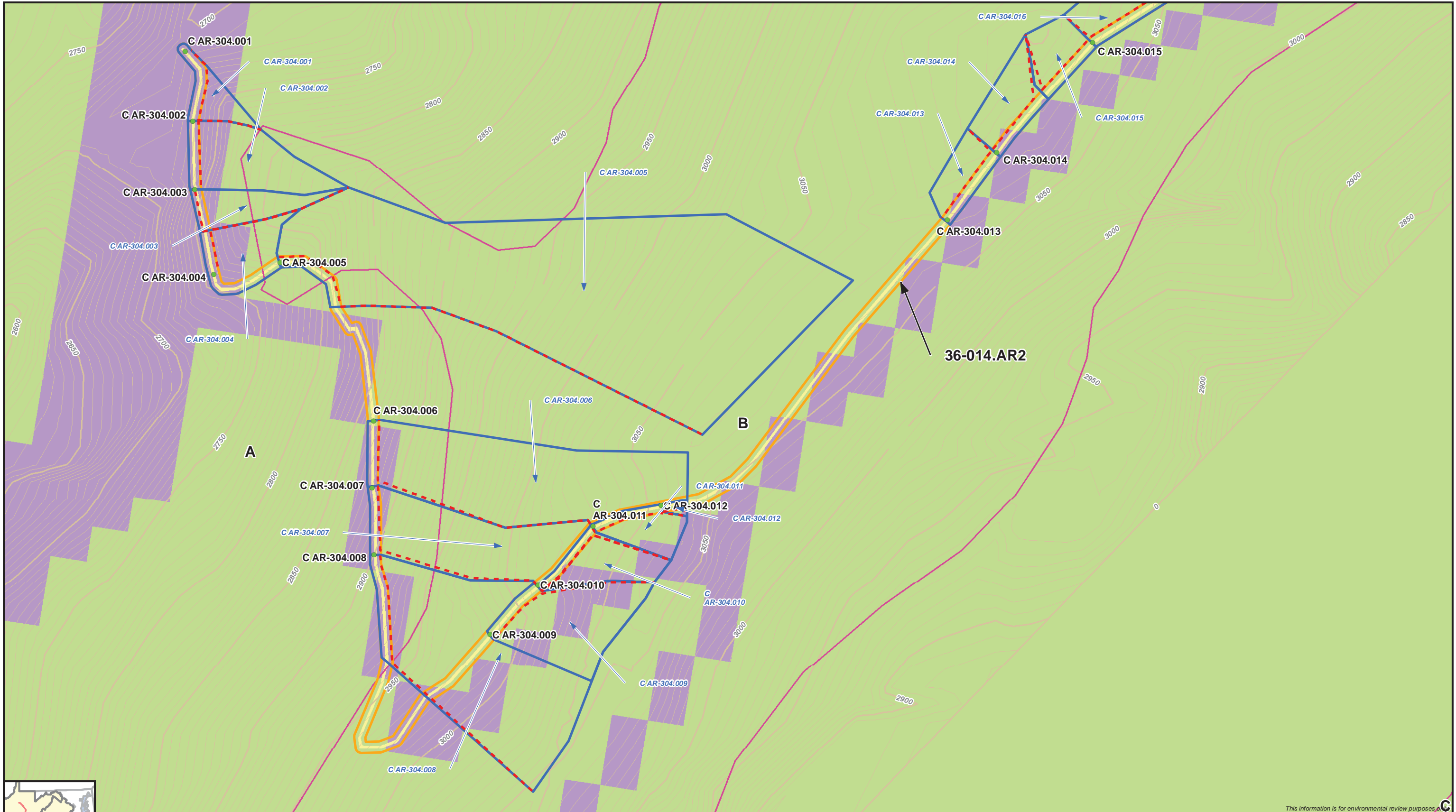
- Land Cover**
- Developed, Open Space
 - Forest
 - Grassland
 - Gravel

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





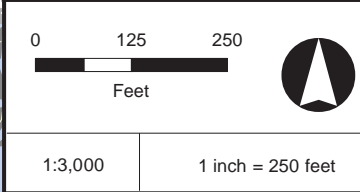
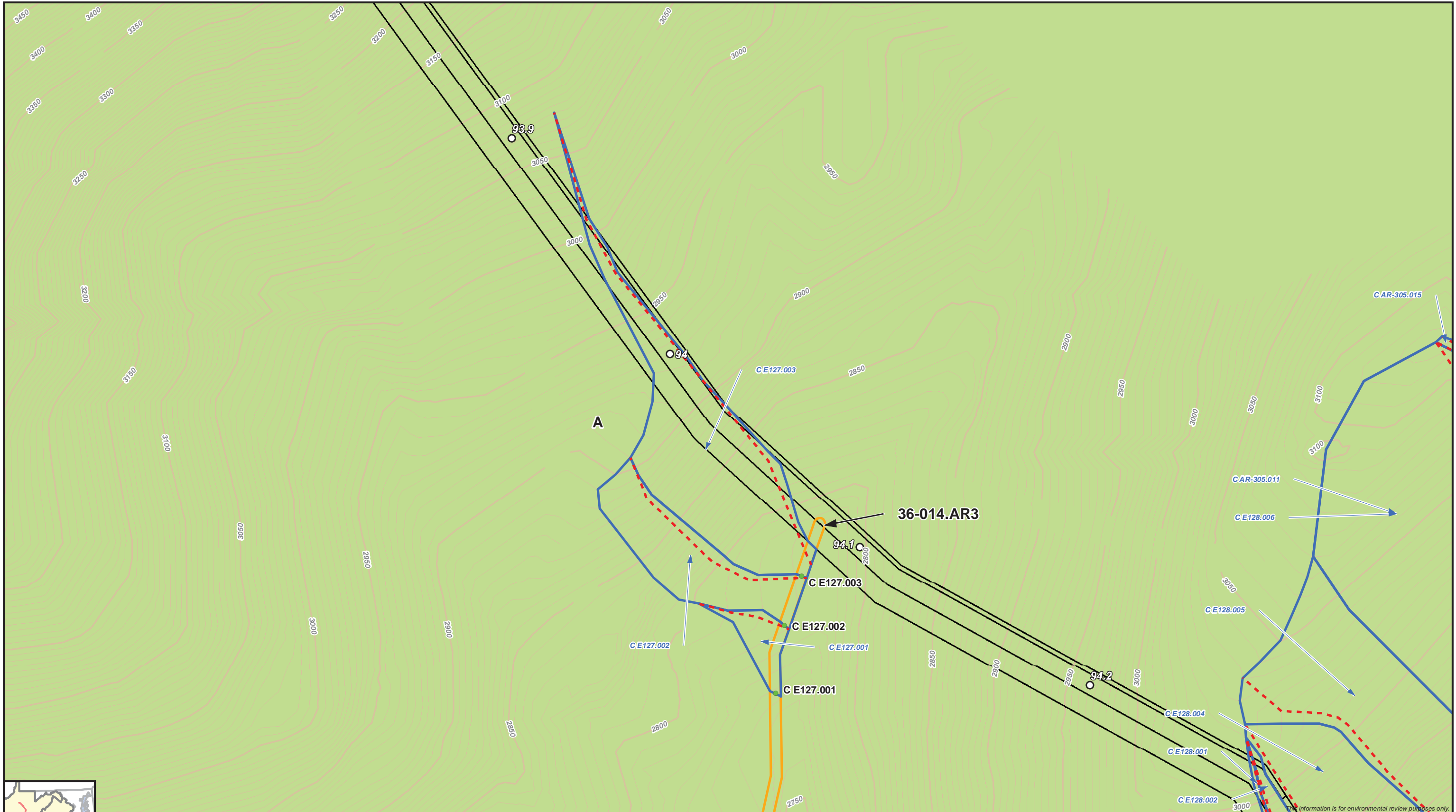
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|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Gravel |
| Culvert | Minor Contour | Hydrologic Soil Group | |

Access Road Key →

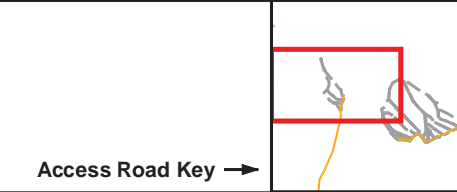


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



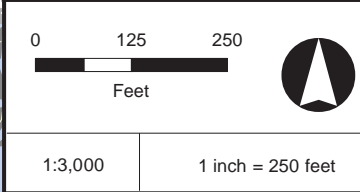
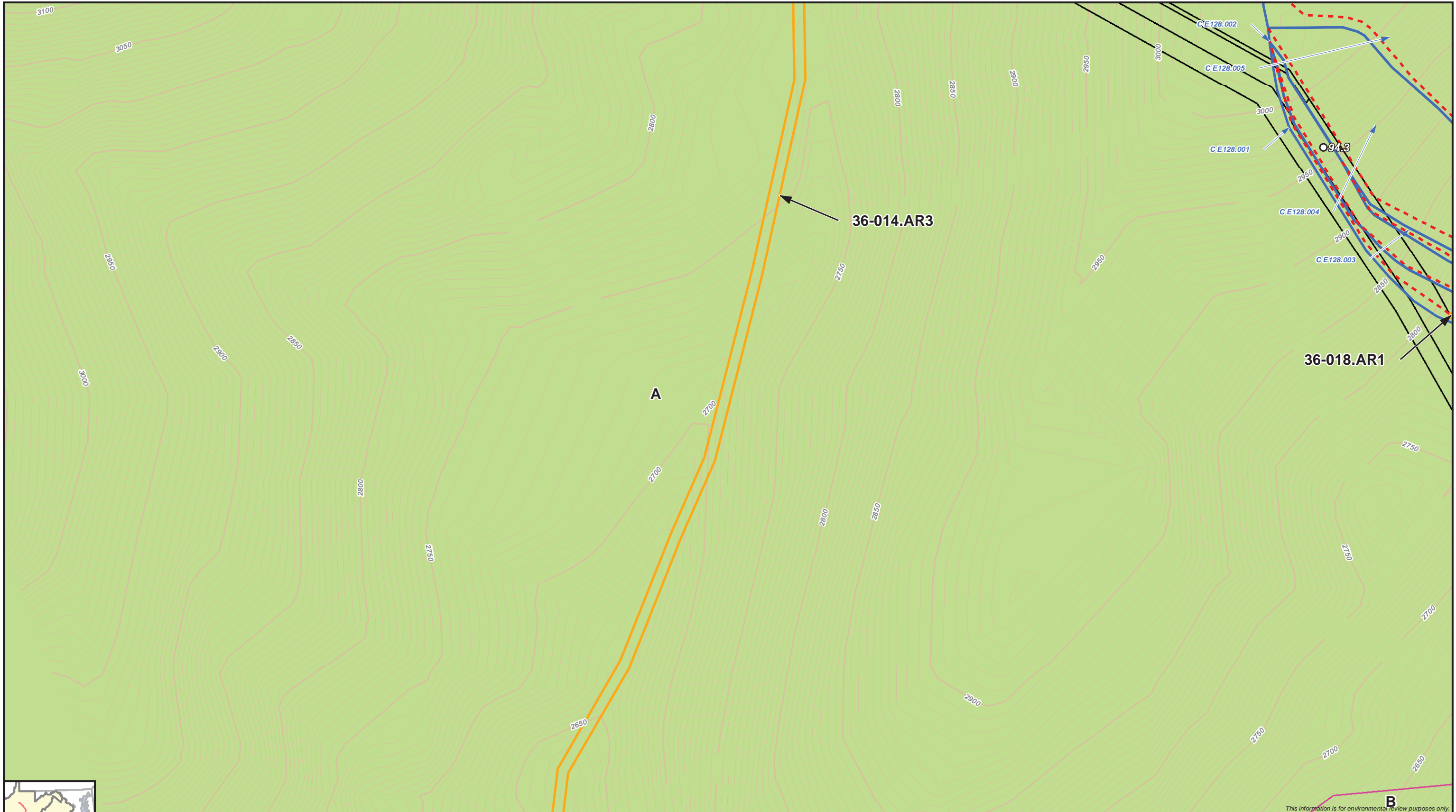


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group
- Land Cover**
- Forest

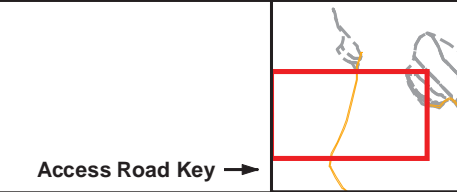


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



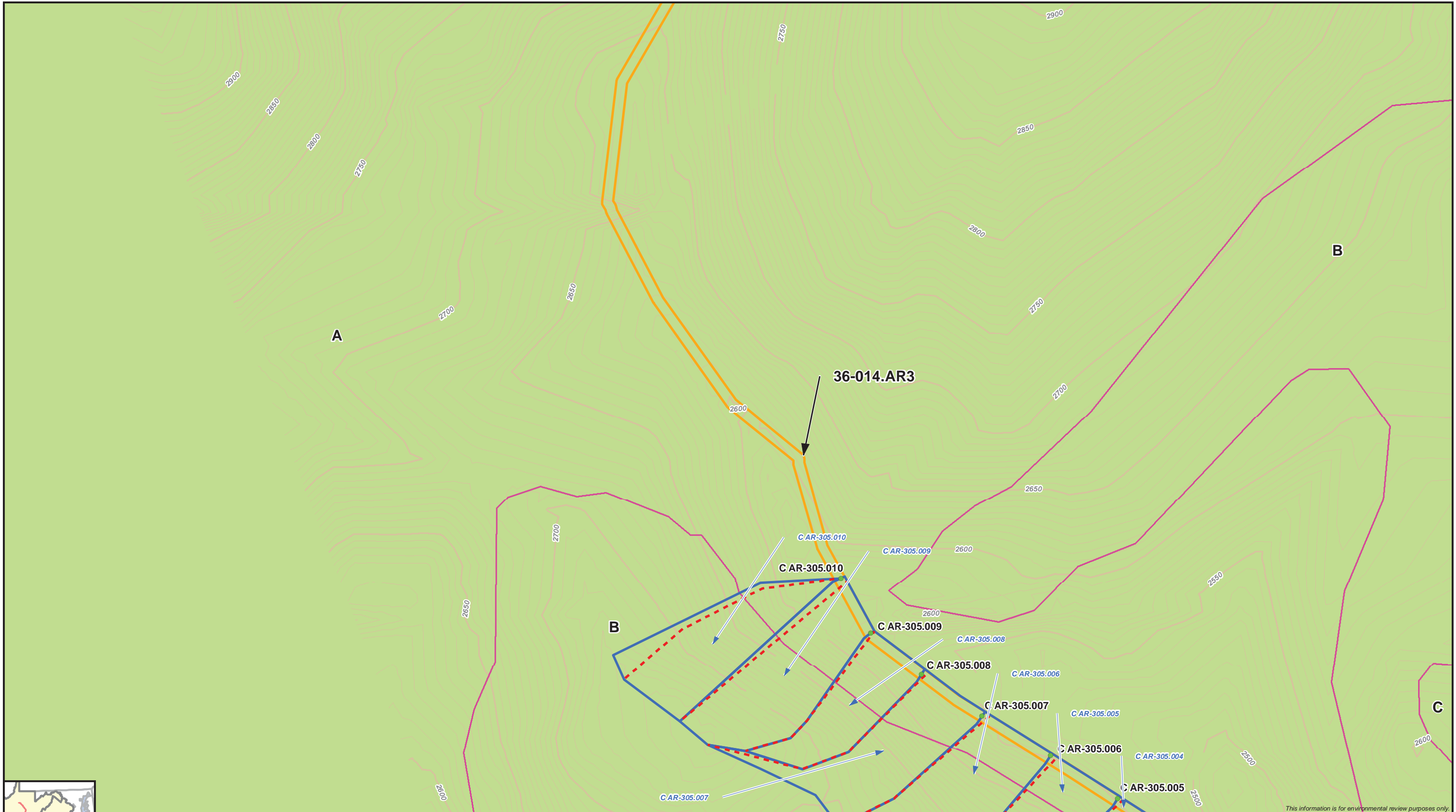


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group
- Land Cover**
- ▭ Forest

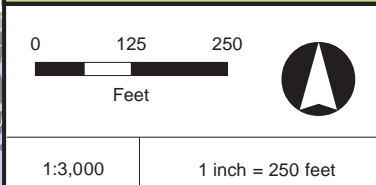
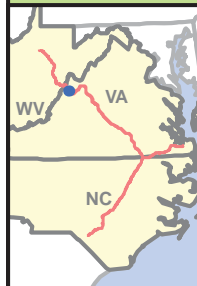


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



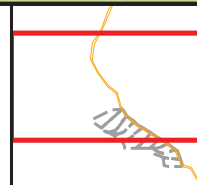


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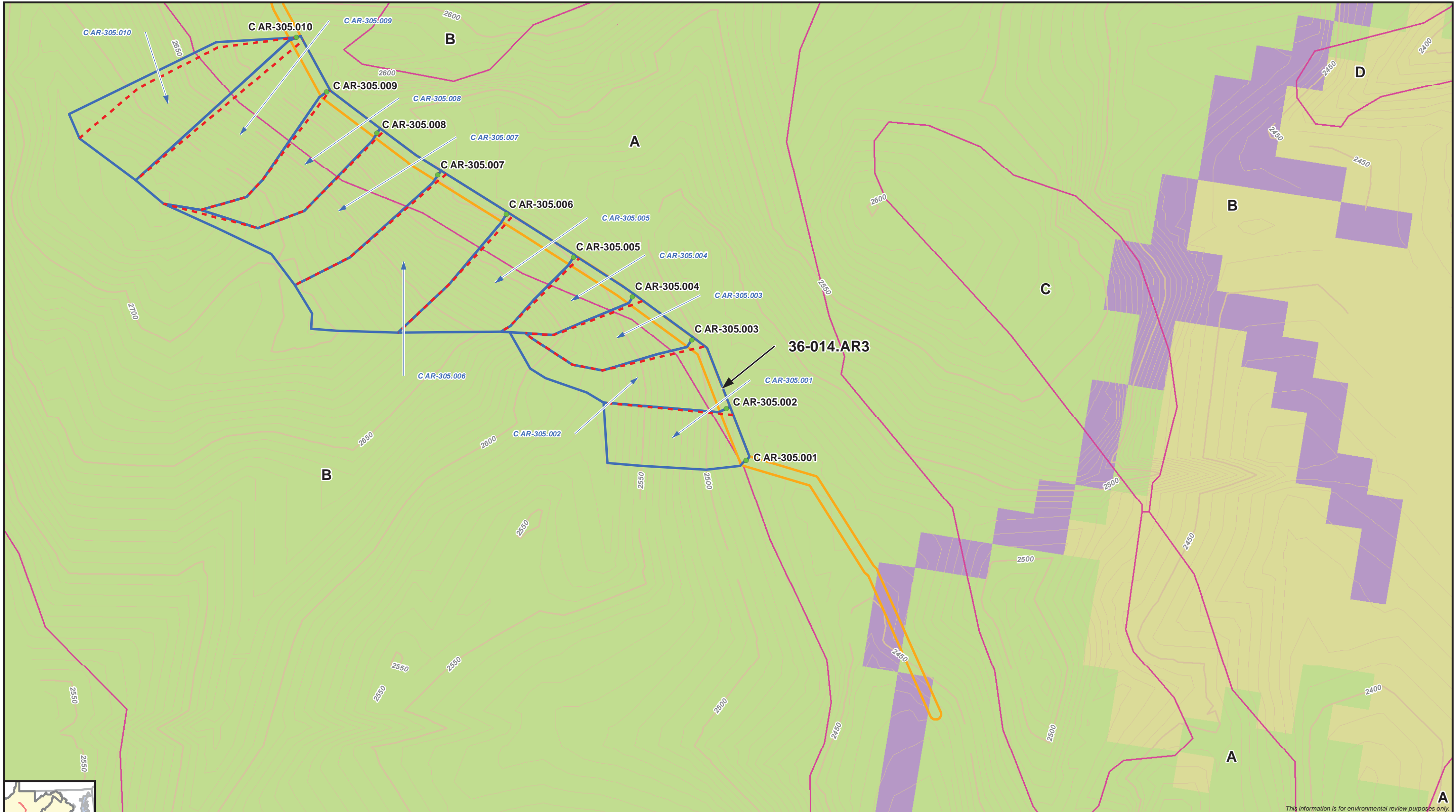
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|---------------------------|-----------------------|-------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | | |
| Culvert | Minor Contour | | |
| | Hydrologic Soil Group | | |

Access Road Key →

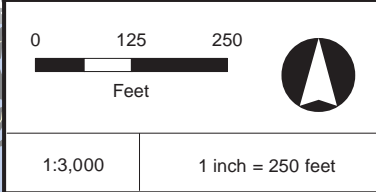


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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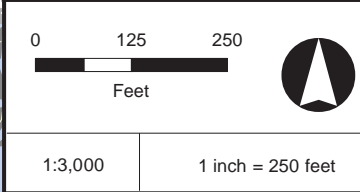
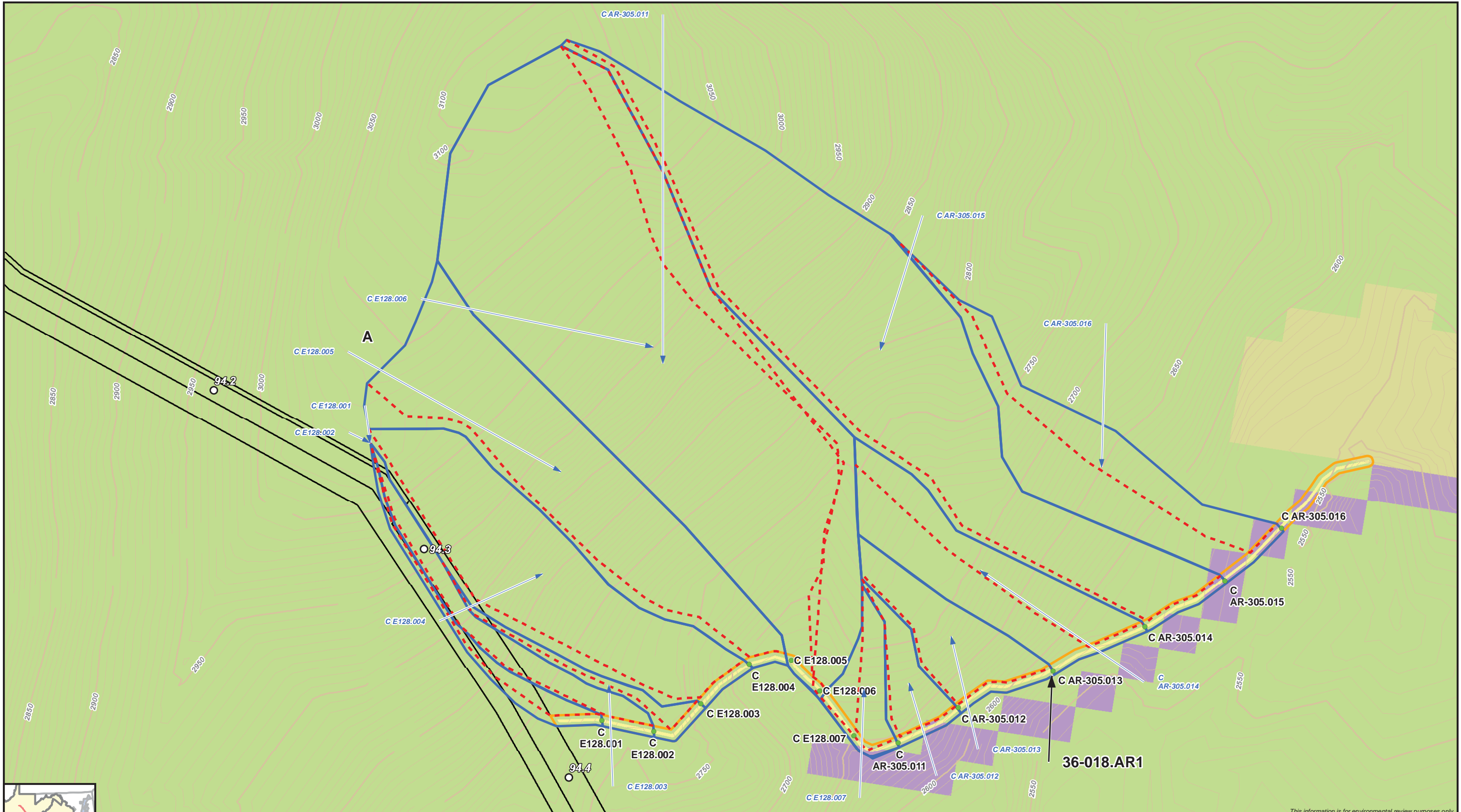


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|---------------------------|---------------|-----------------------|-----------------------|
| Permanent Access Road ROW | Flow Path | Land Cover | Developed, Open Space |
| Culvert Drainage Area | Major Contour | Agriculture | Forest |
| Culvert | Minor Contour | Hydrologic Soil Group | |



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

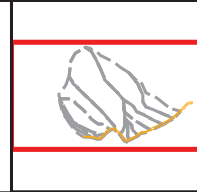




- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

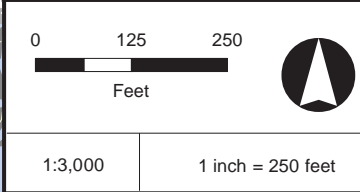
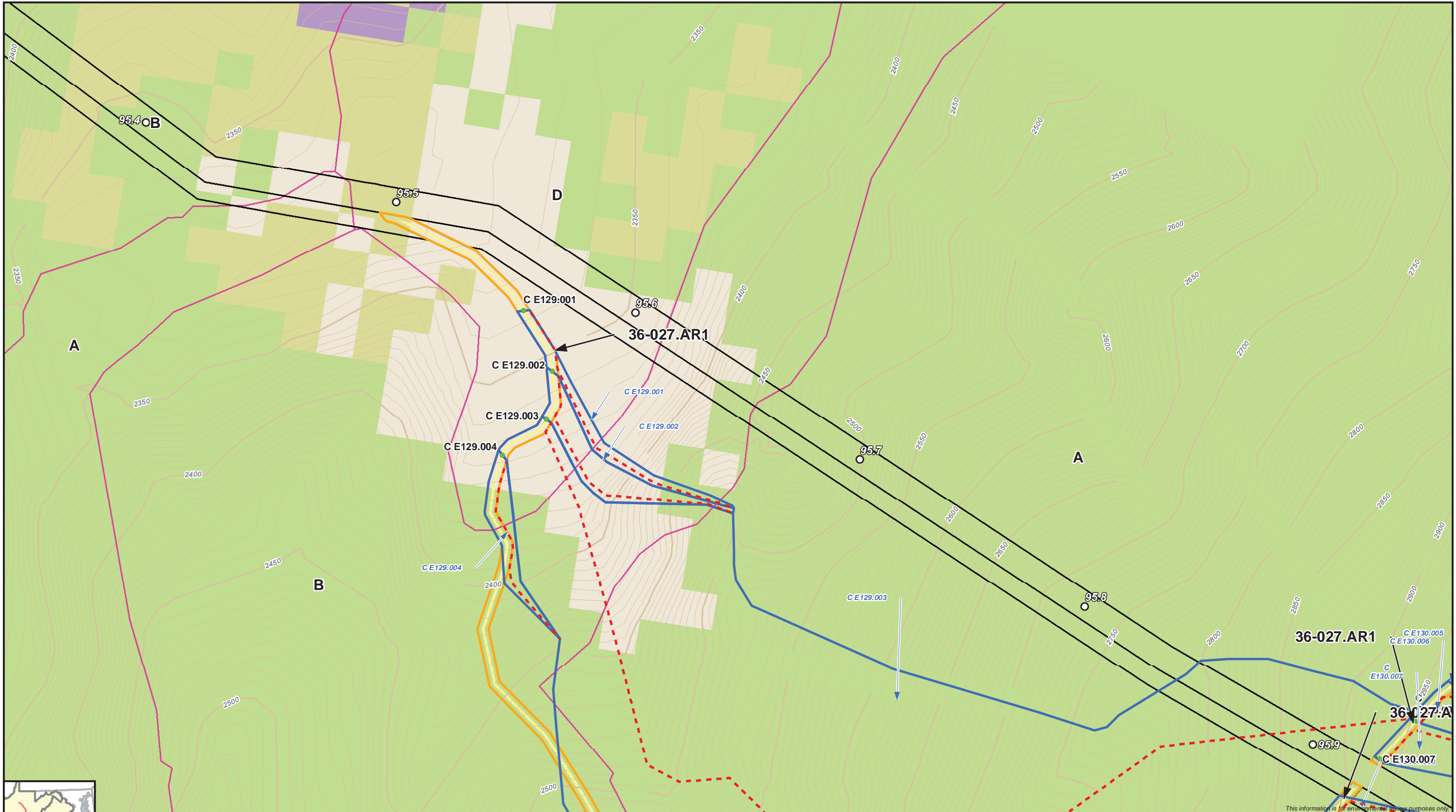
- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

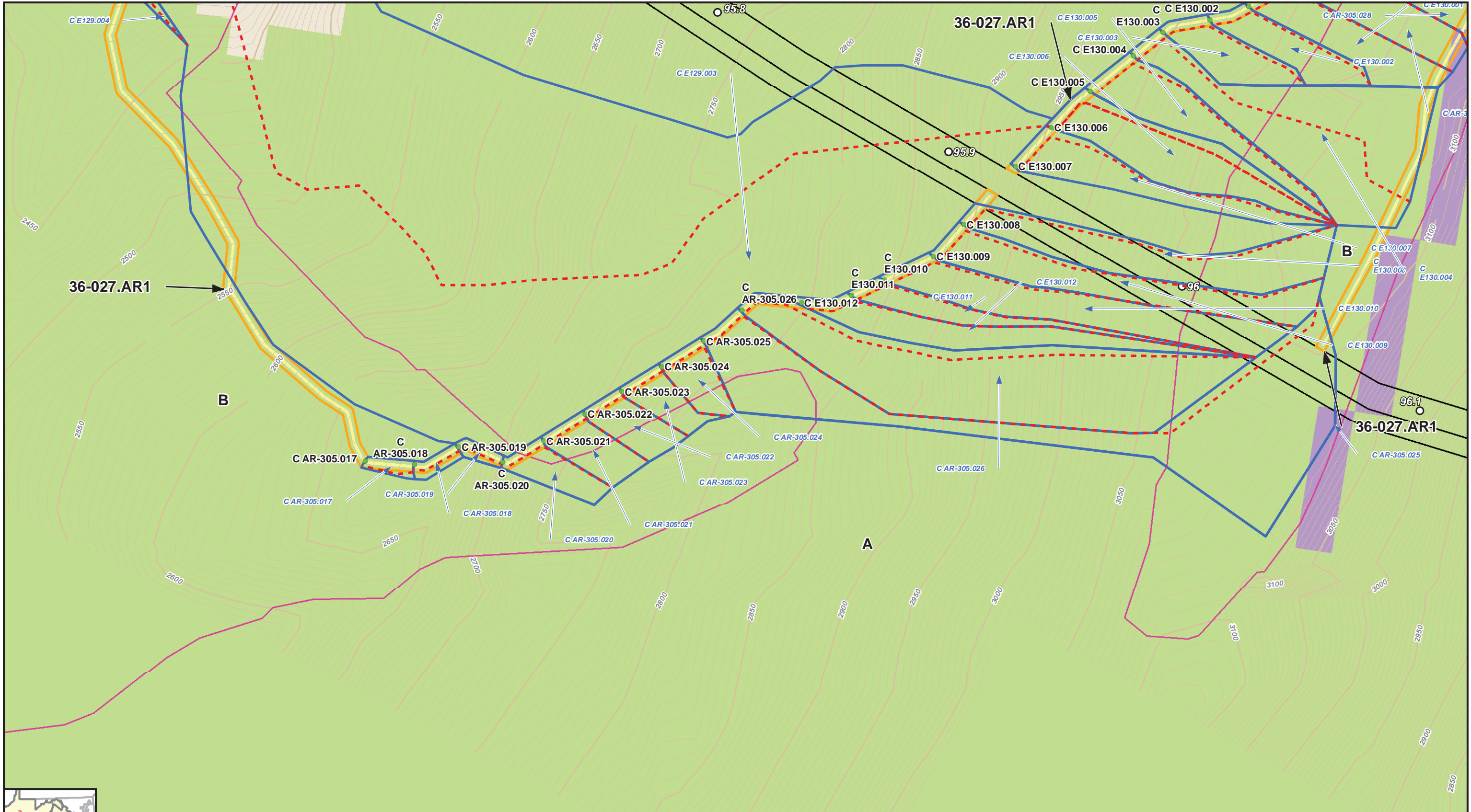
- - - Flow Path
 - Major Contour
 - Minor Contour
 - Ⓜ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel
 - ▭ Shrub

Access Road Key →

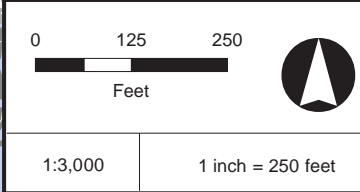


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

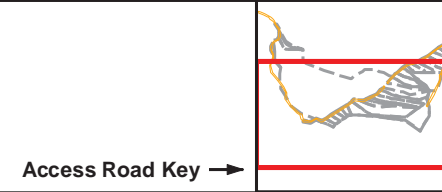




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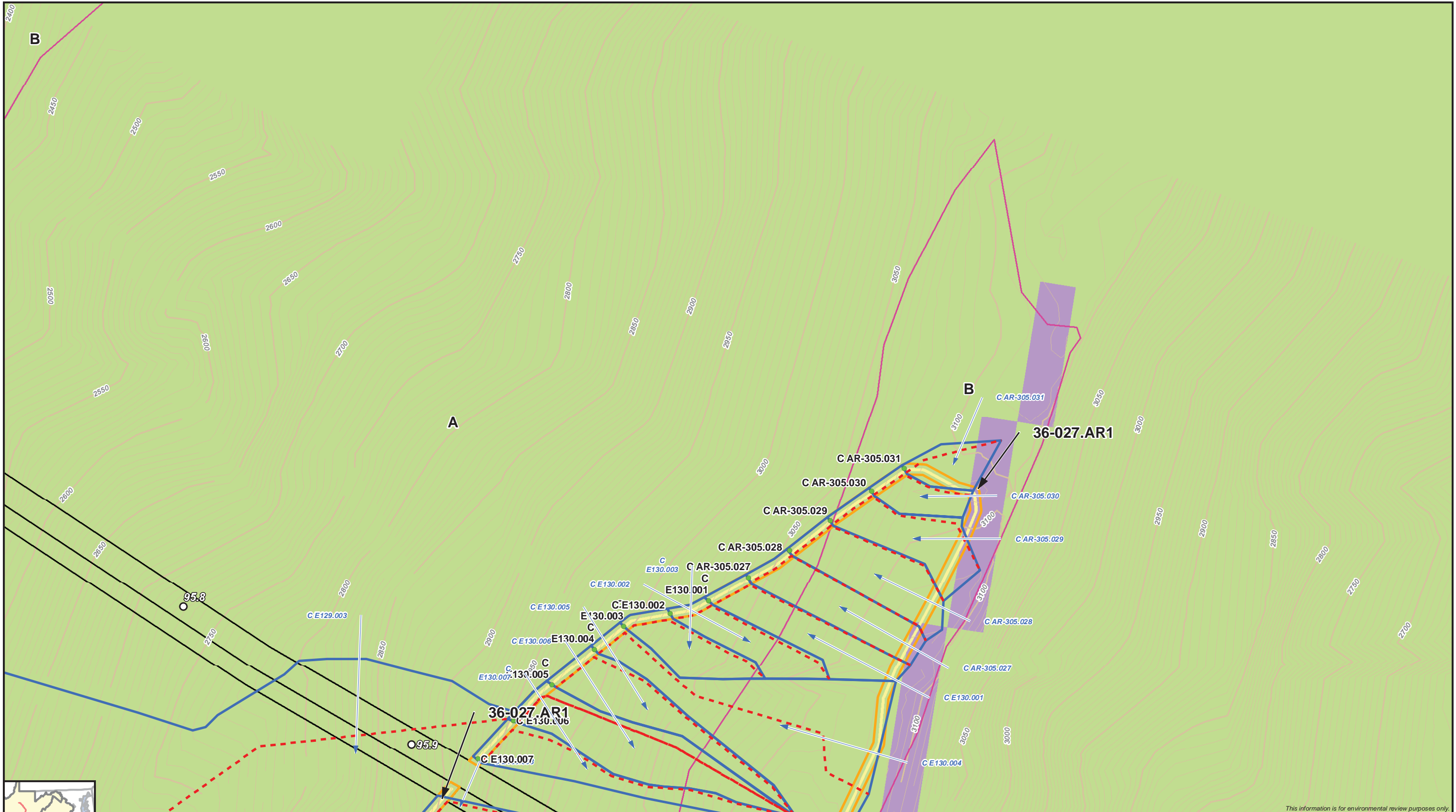


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|-----------------------------|-------------------------|-------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | ■ Shrub |
| ▭ Pipeline ROW | — Minor Contour | ■ Forest | |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

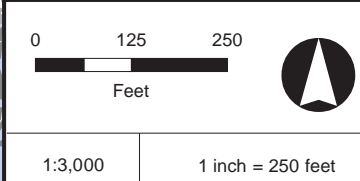


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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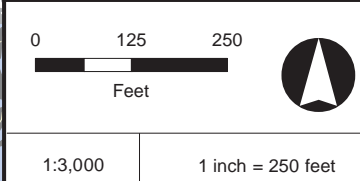
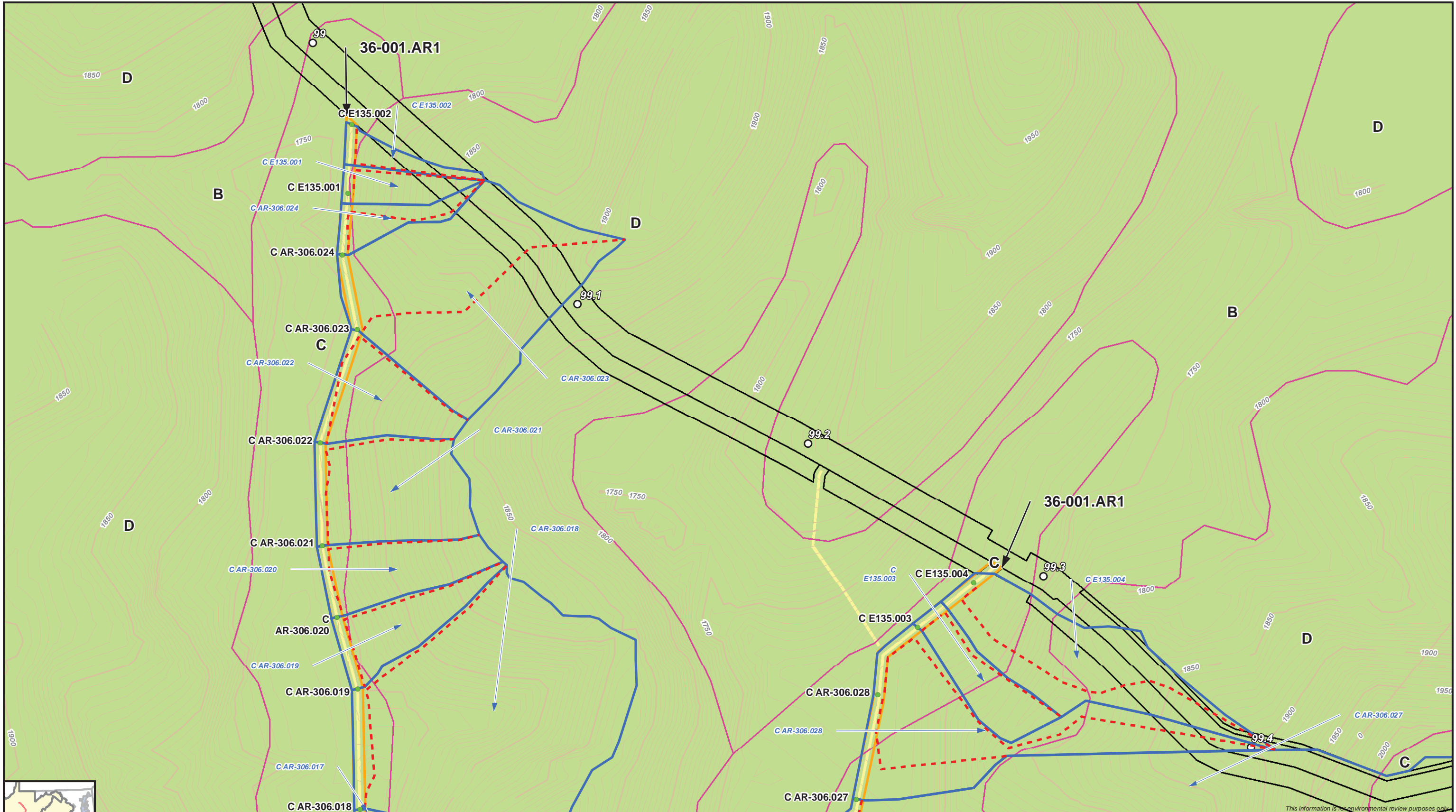


- | | | | |
|-----------------------------|-------------------------|-----------------------|--------|
| ○ Milepost | --- Flow Path | Land Cover | Forest |
| ▭ Permanent Access Road ROW | --- Major Contour | Developed, Open Space | Gravel |
| ▭ Pipeline ROW | --- Minor Contour | | |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group
- ▭ Land Cover
- ▭ Forest
- ▭ Gravel

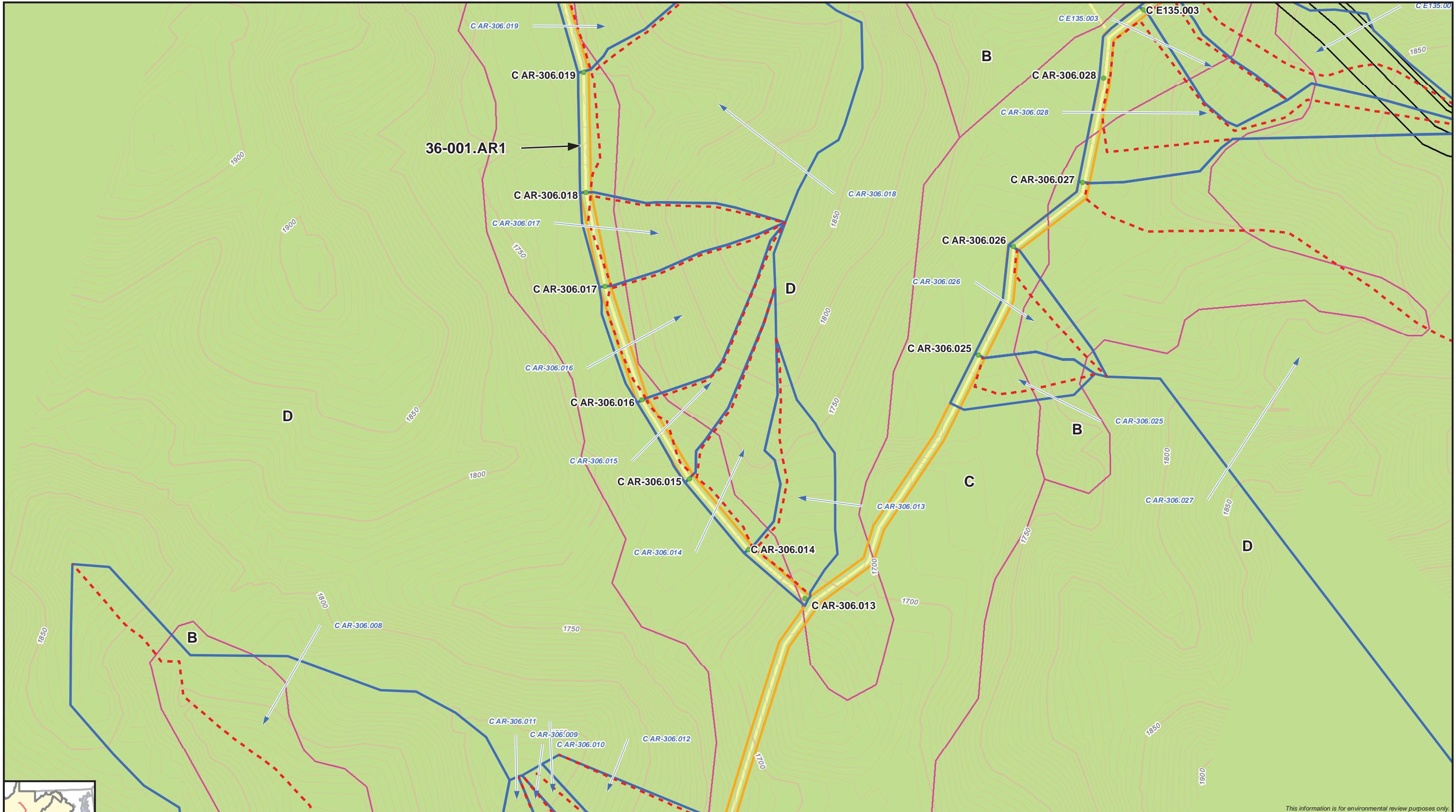
Access Road Key →



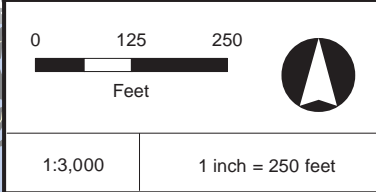
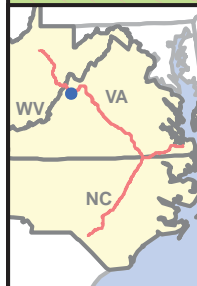
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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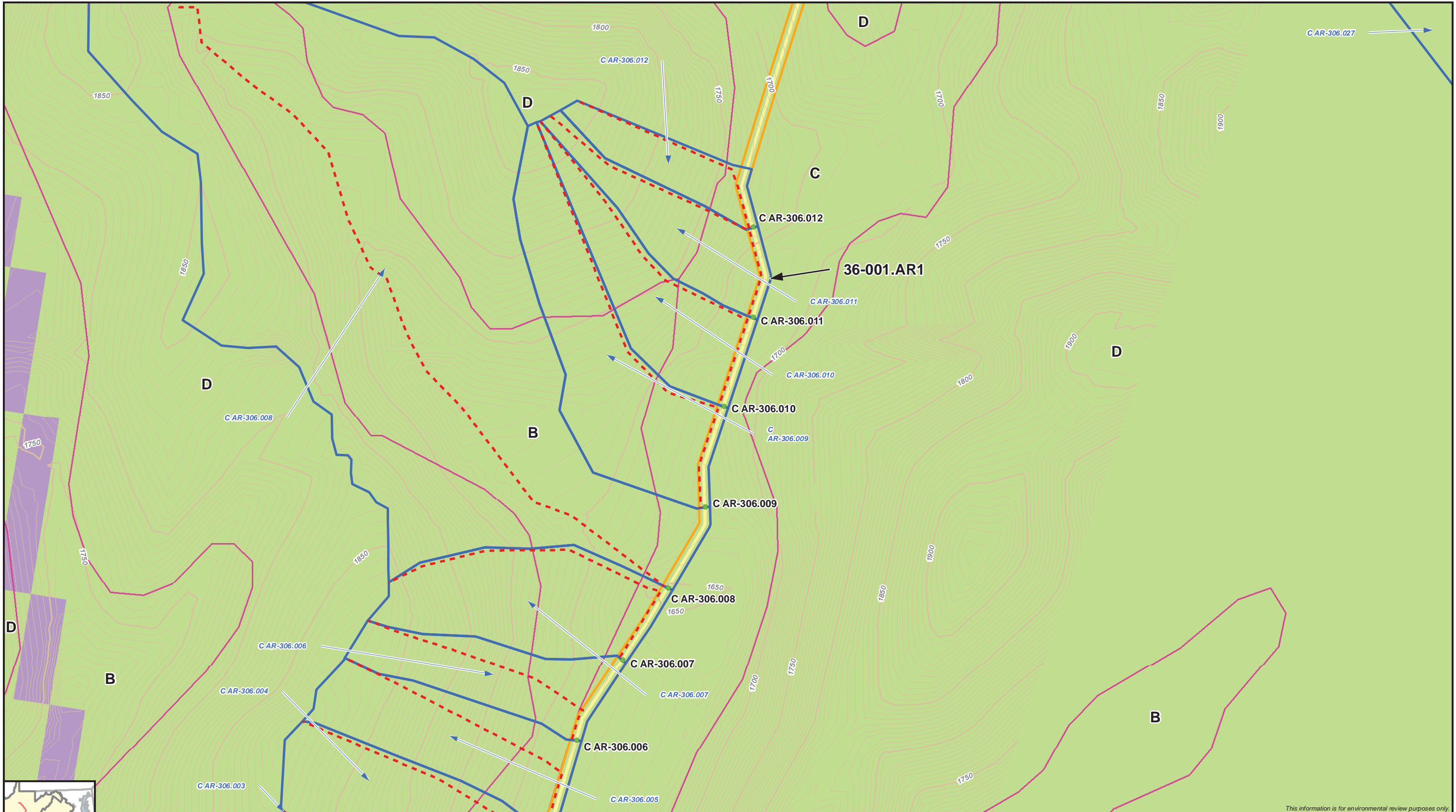
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|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Gravel |
| Pipeline ROW | Major Contour | Forest | |
| Culvert Drainage Area | Minor Contour | Hydrologic Soil Group | |
| Culvert | | | |

Access Road Key →

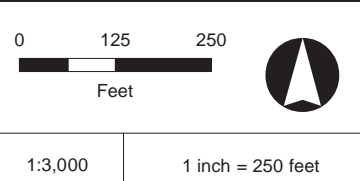


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





This information is for environmental review purposes only.



- | | | | |
|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Gravel |
| Culvert | Minor Contour | Hydrologic Soil Group | |

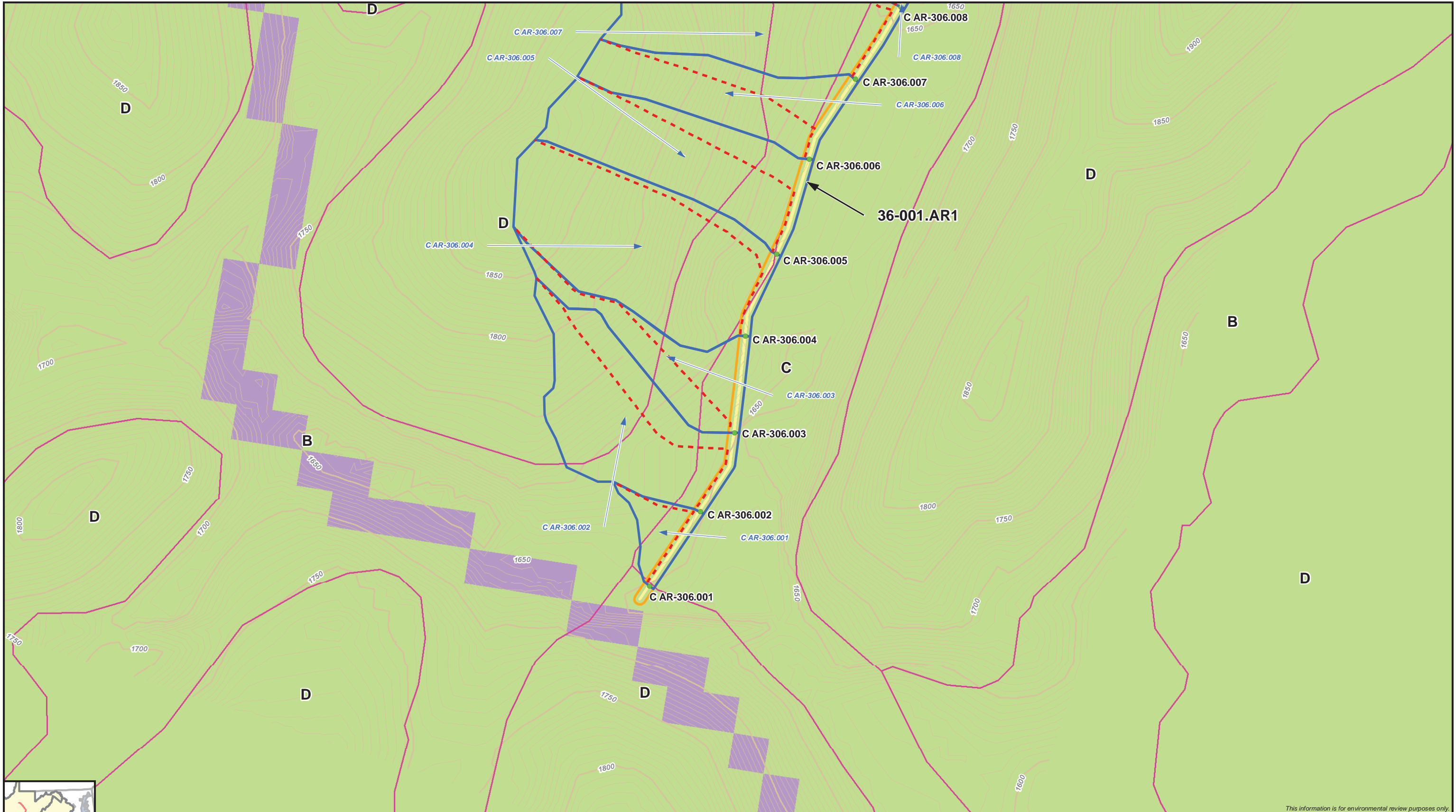
Access Road Key →



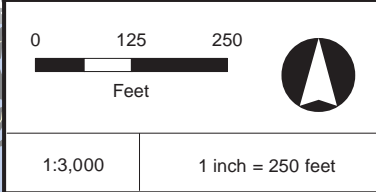
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

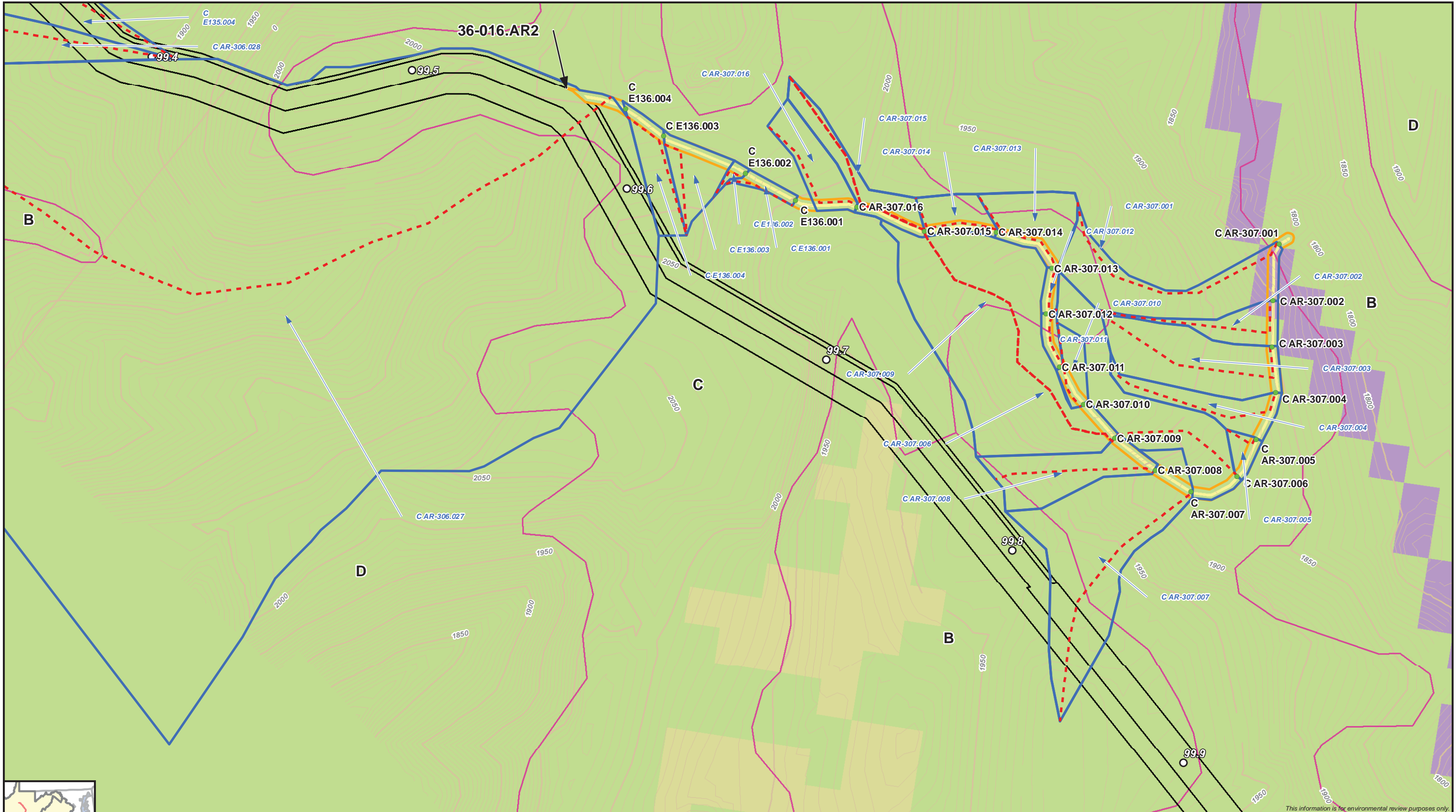
- Flow Path
- Major Contour
- Minor Contour
- Hydrologic Soil Group

- Land Cover**
- Developed, Open Space
 - Forest
 - Gravel

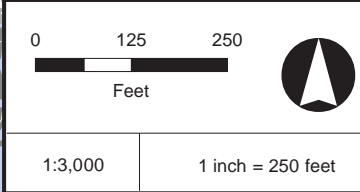
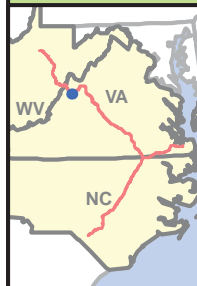


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





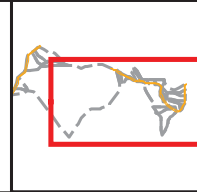
This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

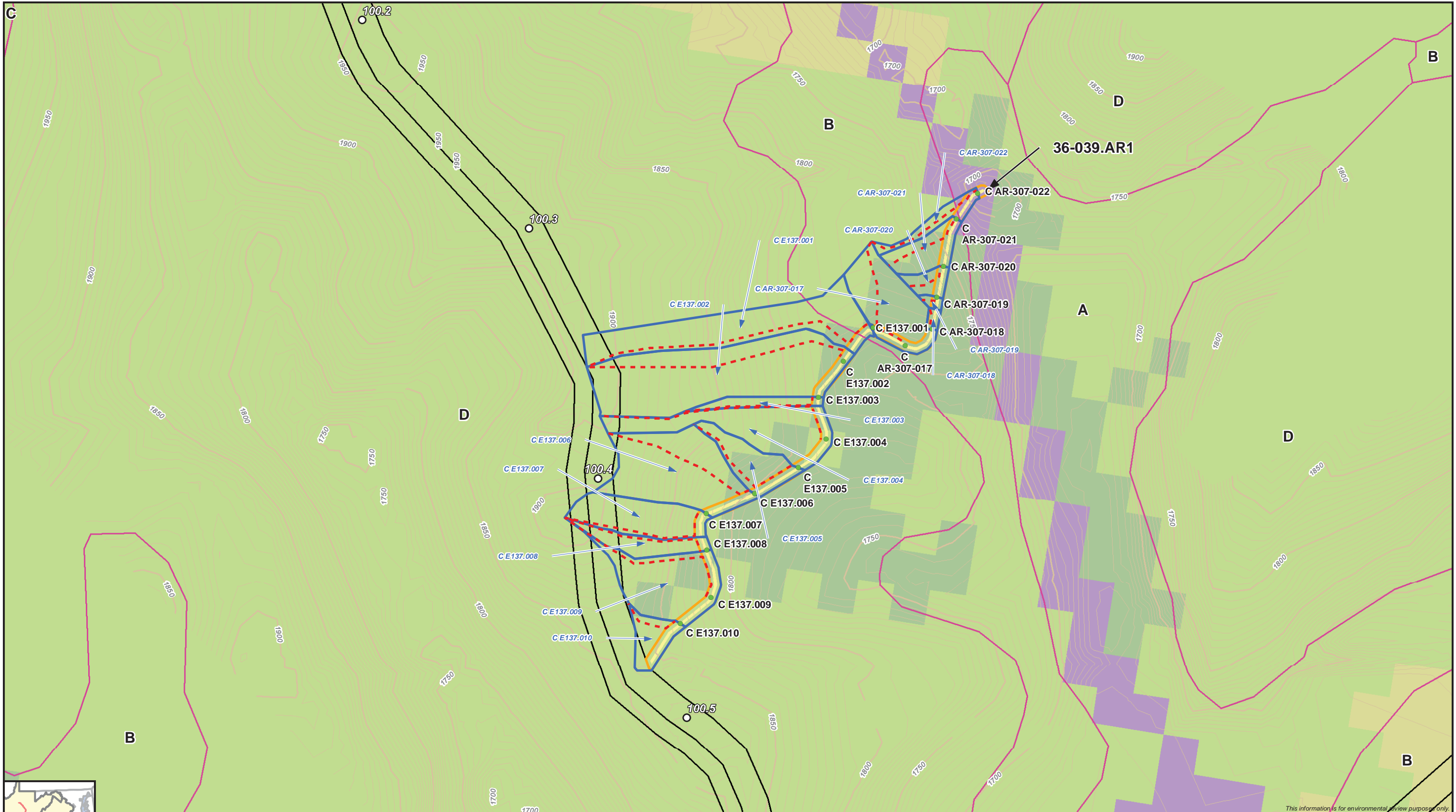
- - - Flow Path
 - Major Contour
 - Minor Contour
 - Ⓜ Hydrologic Soil Group
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel

Access Road Key →

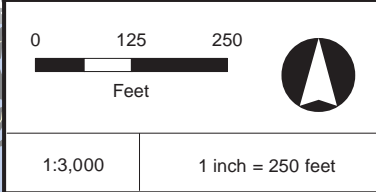
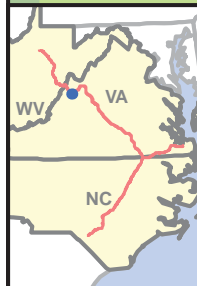


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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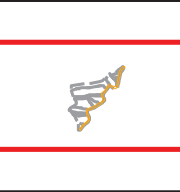
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

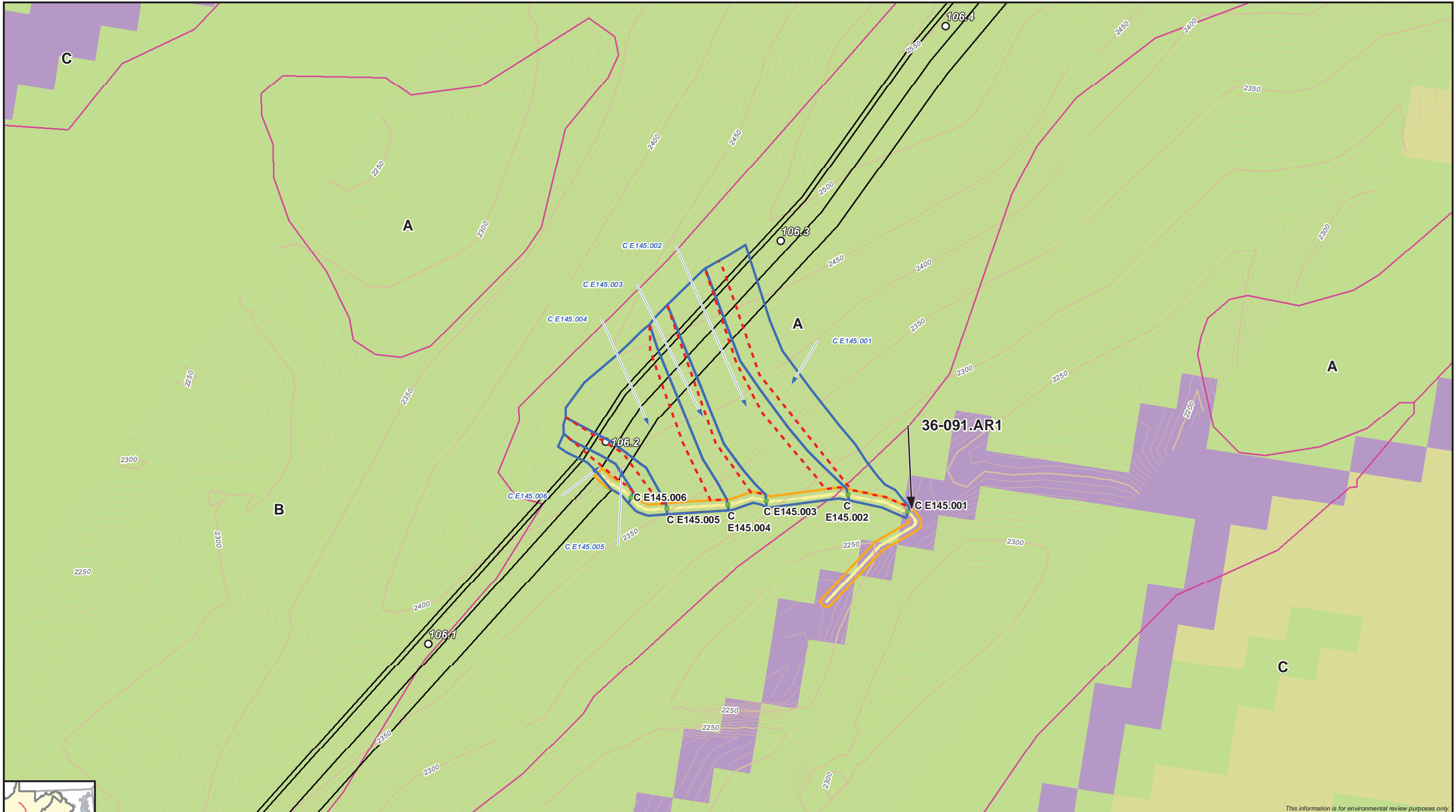
- ▭ Forest
- ▭ Grassland
- ▭ Gravel

Access Road Key →

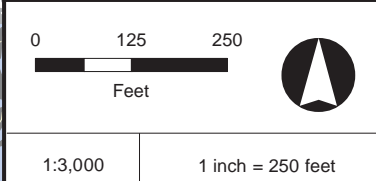


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





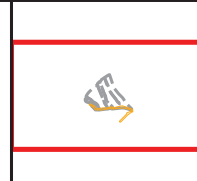
This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel

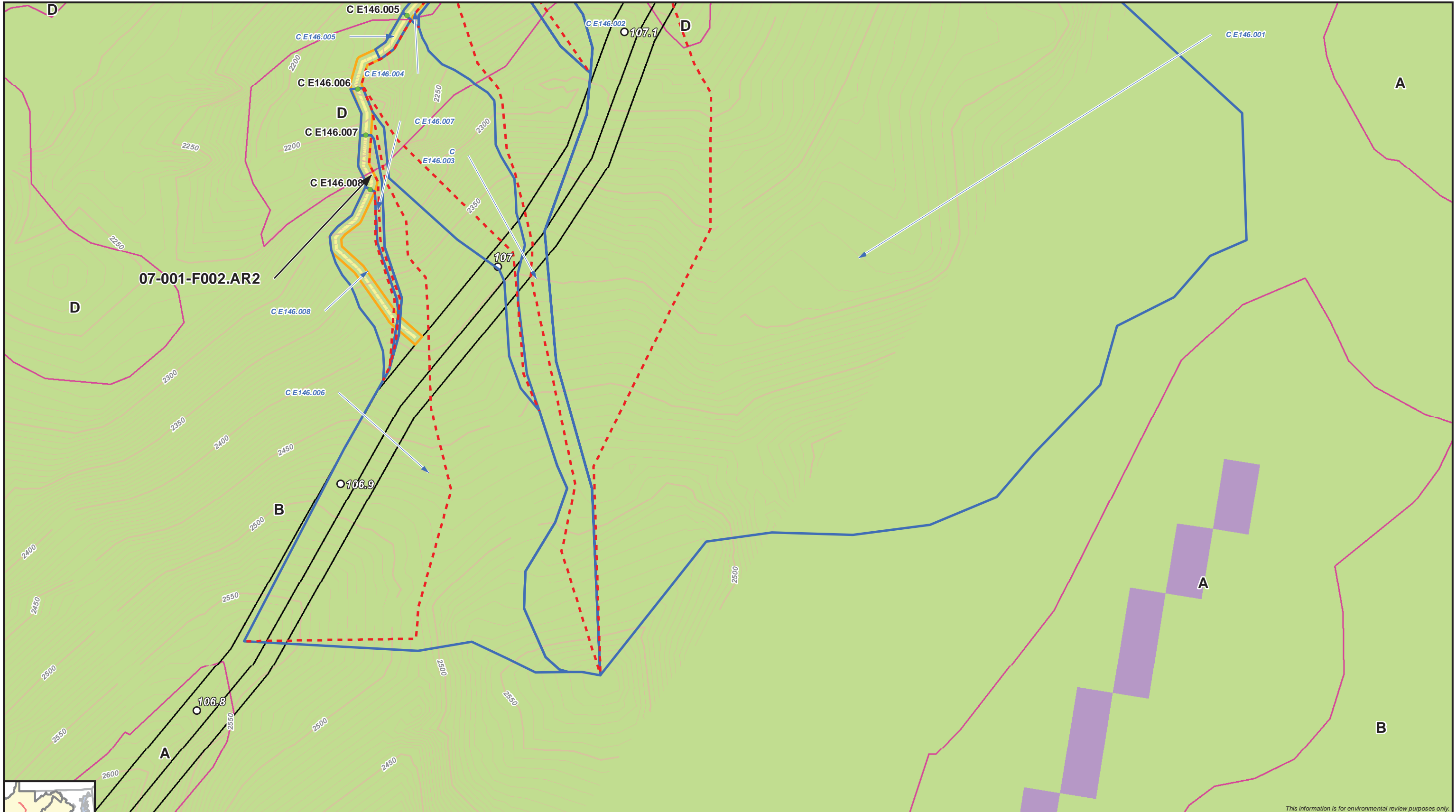
Access Road Key →



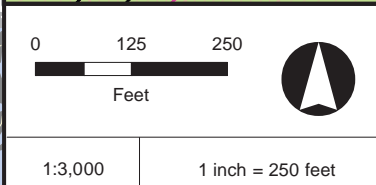
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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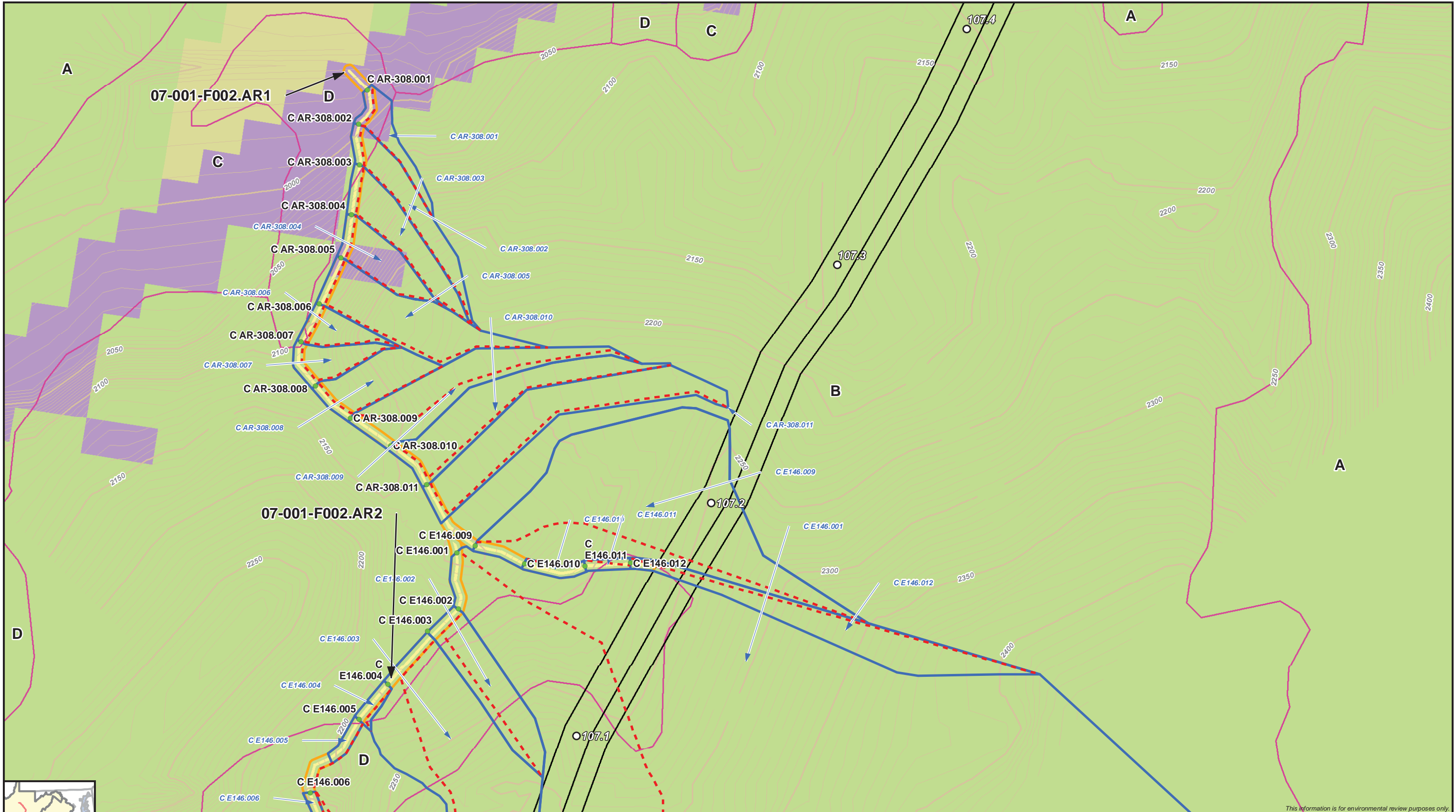
- | | | | |
|-----------------------------|-----------------|-------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Forest |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | ■ Gravel |
| ▭ Pipeline ROW | — Minor Contour | ■ Hydrologic Soil Group | |
| ▭ Culvert Drainage Area | ● Culvert | | |

Access Road Key →

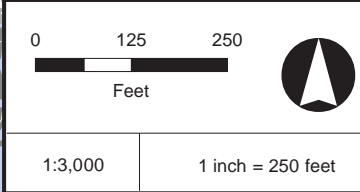
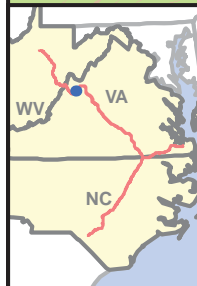


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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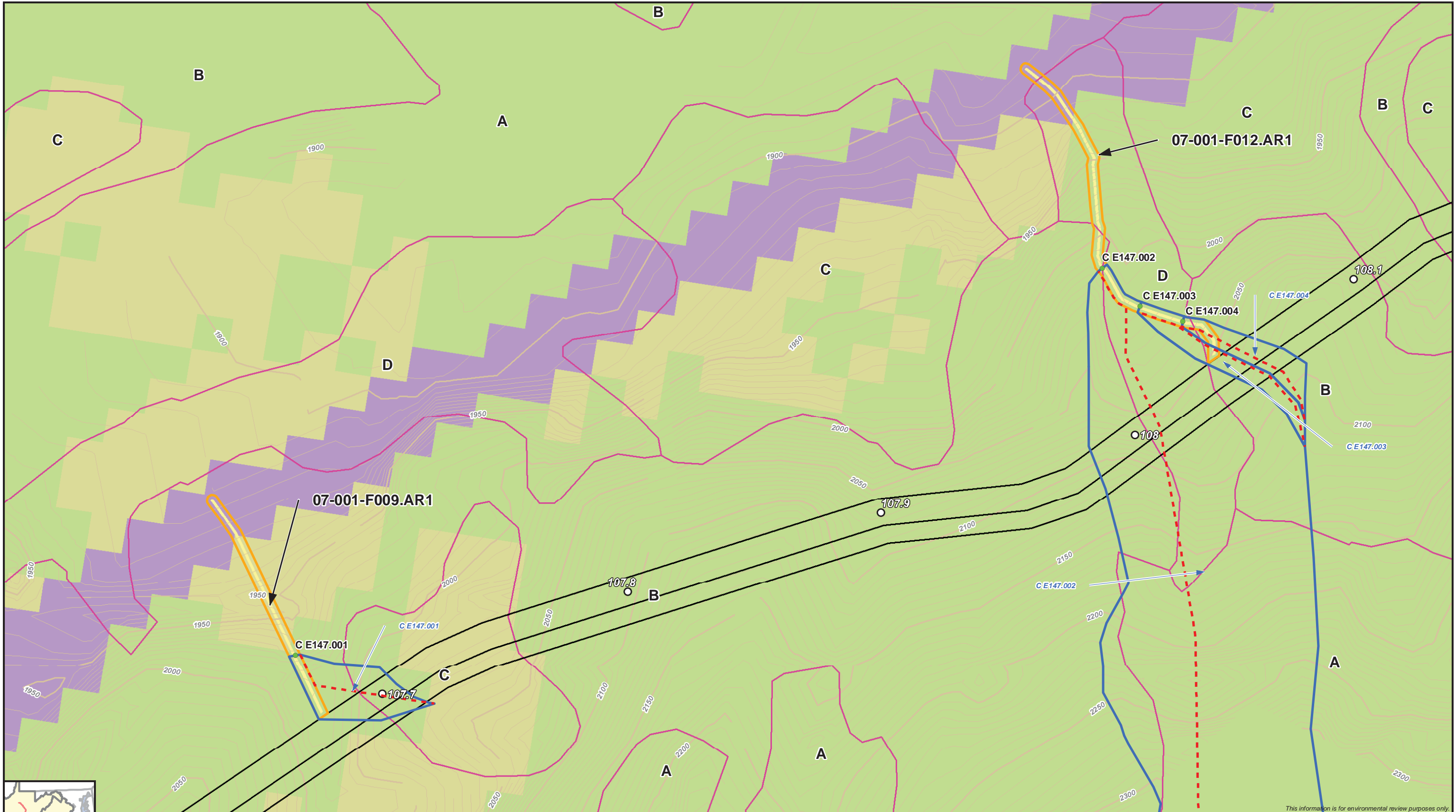
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group
- ▭ Land Cover
 - ▭ Forest
 - ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Gravel

Access Road Key →

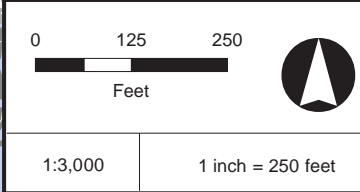


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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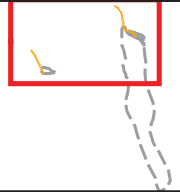


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

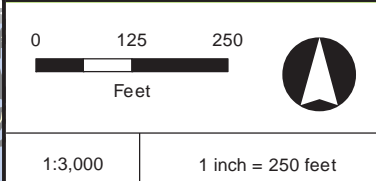
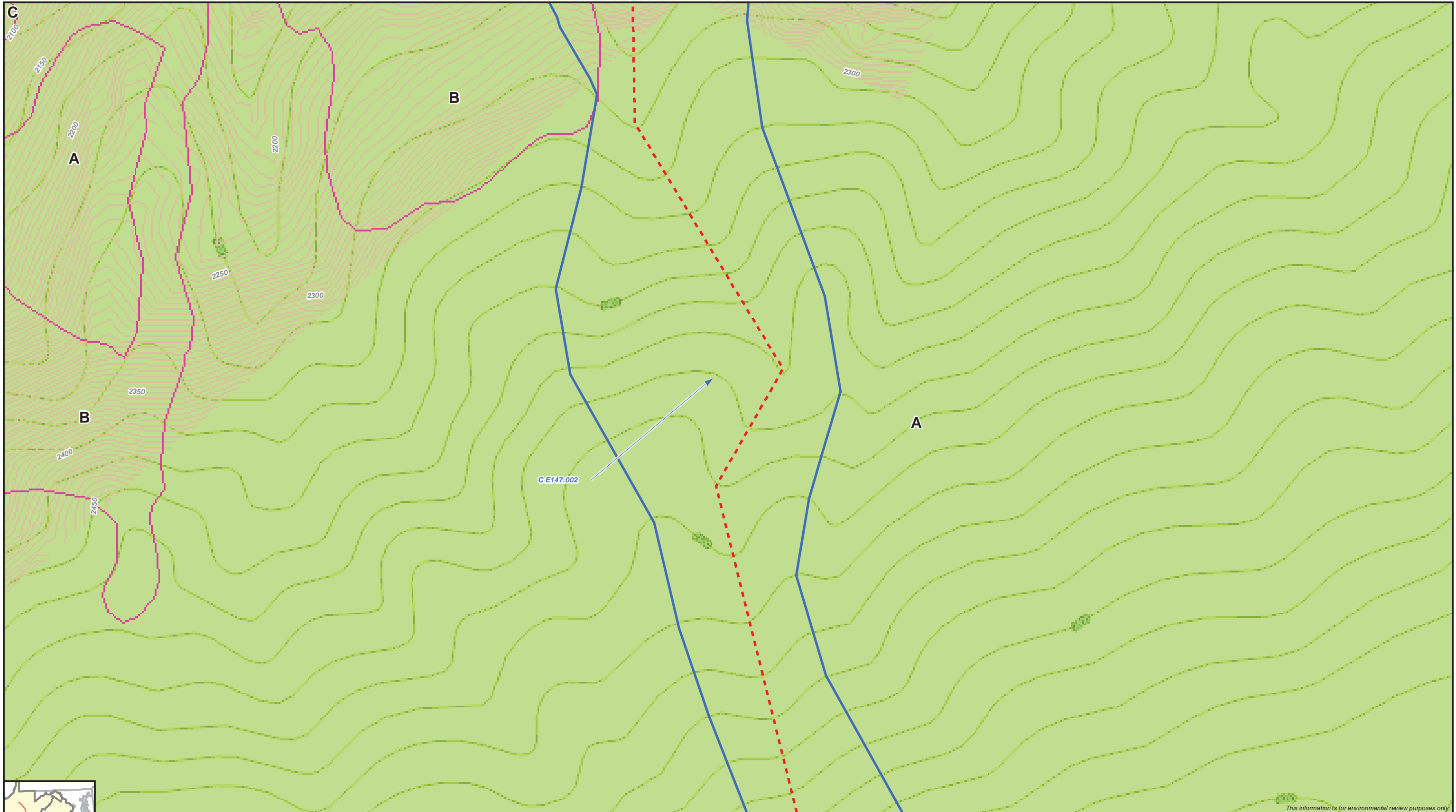
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel

Access Road Key →



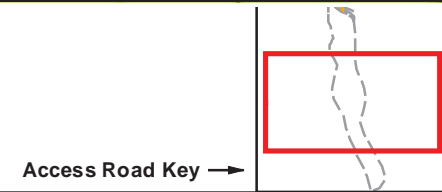
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





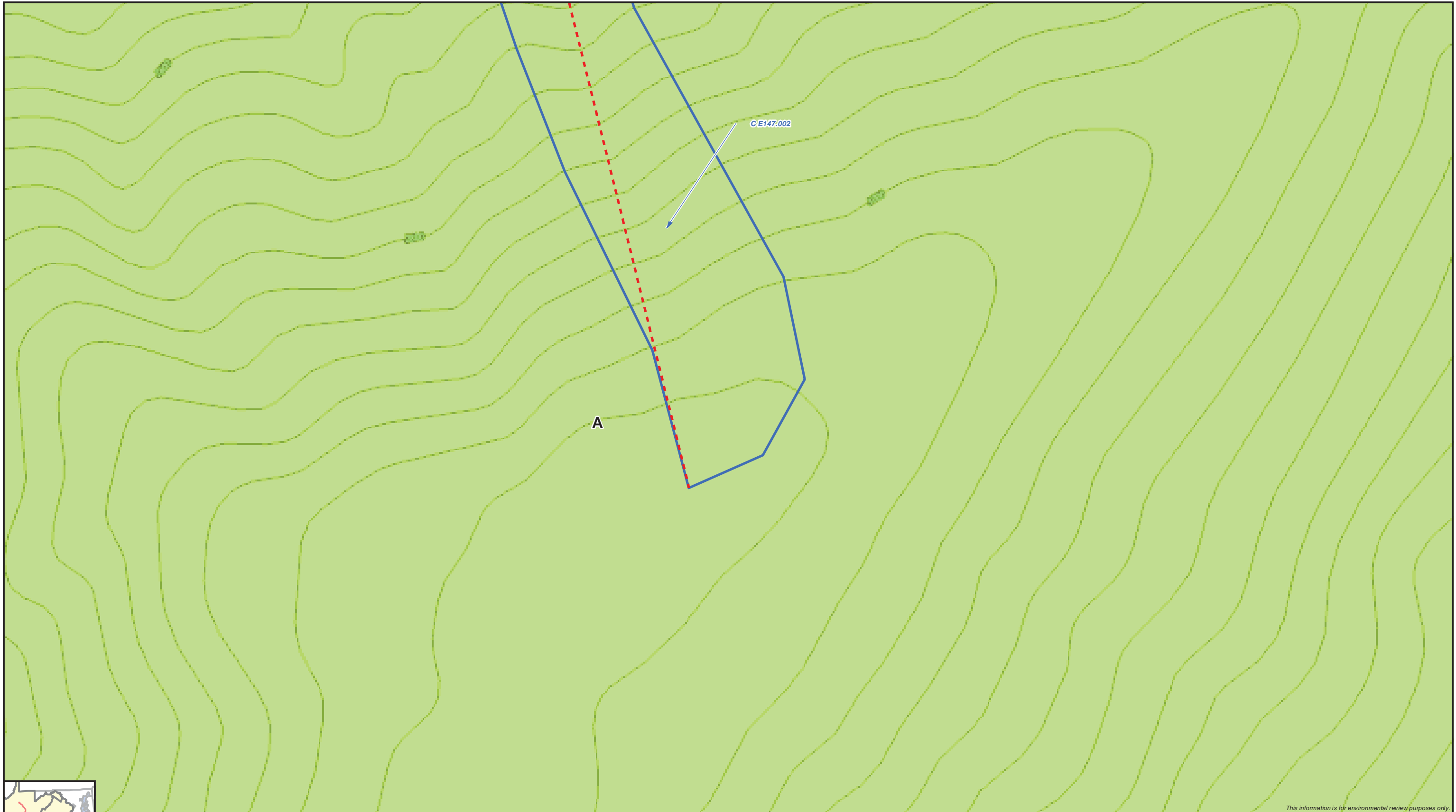
- Culvert Drainage Area
- - - Flow Path
- Major Contour
- Minor Contour
- Forest

Hydrologic
Soil Group

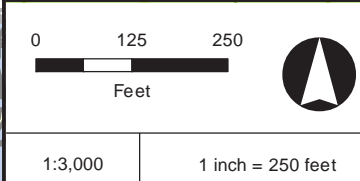


Virginia
Culvert and Ditch Analysis
Permanent Access Roads
Pre-Development Conditions





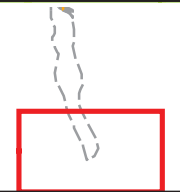
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- Culvert Drainage Area
- Flow Path
- Land Cover**
- Forest

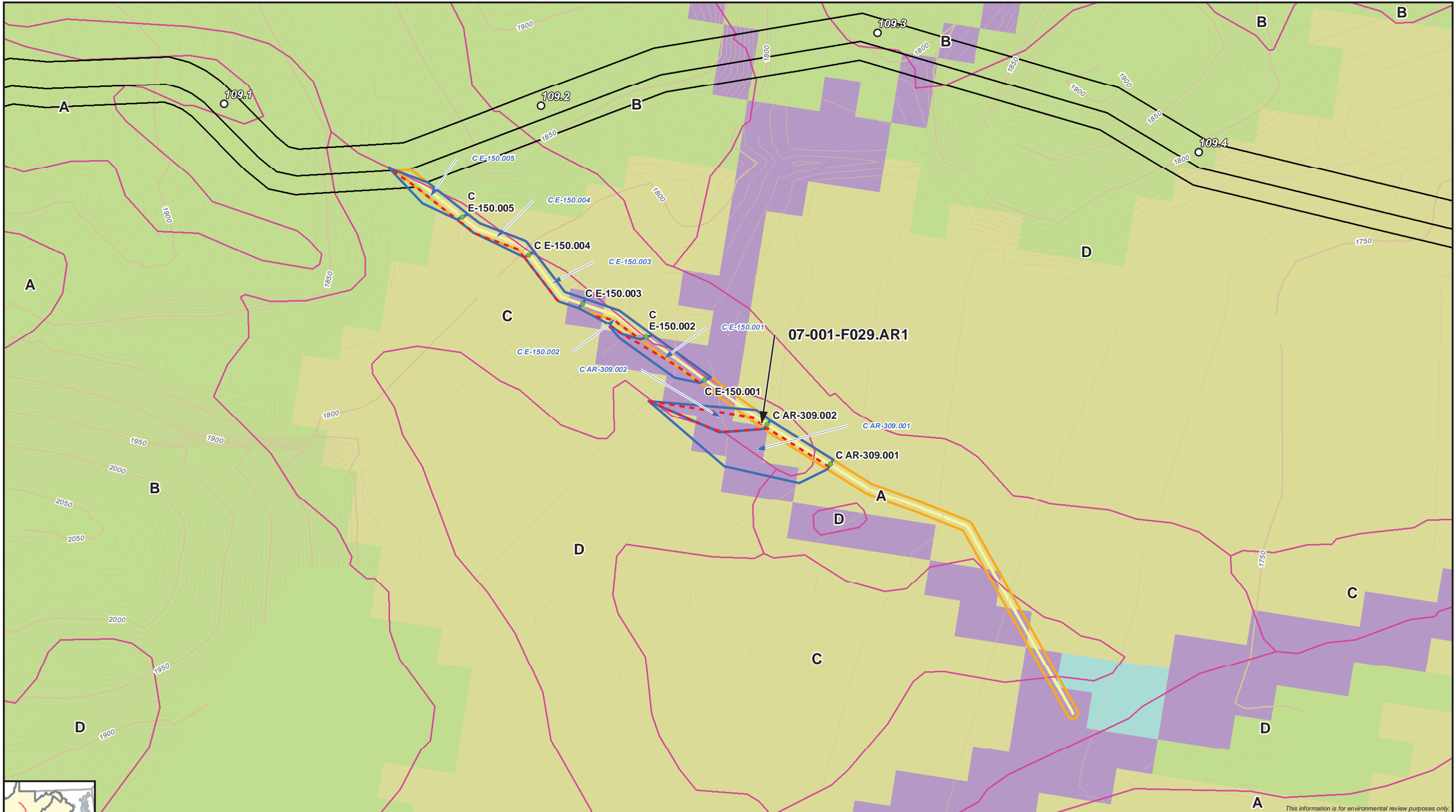
Hydrologic Soil Group

Access Road Key →

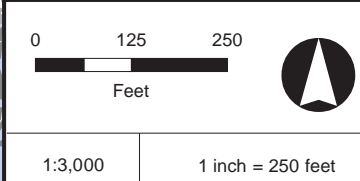


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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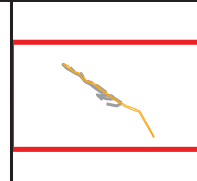


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

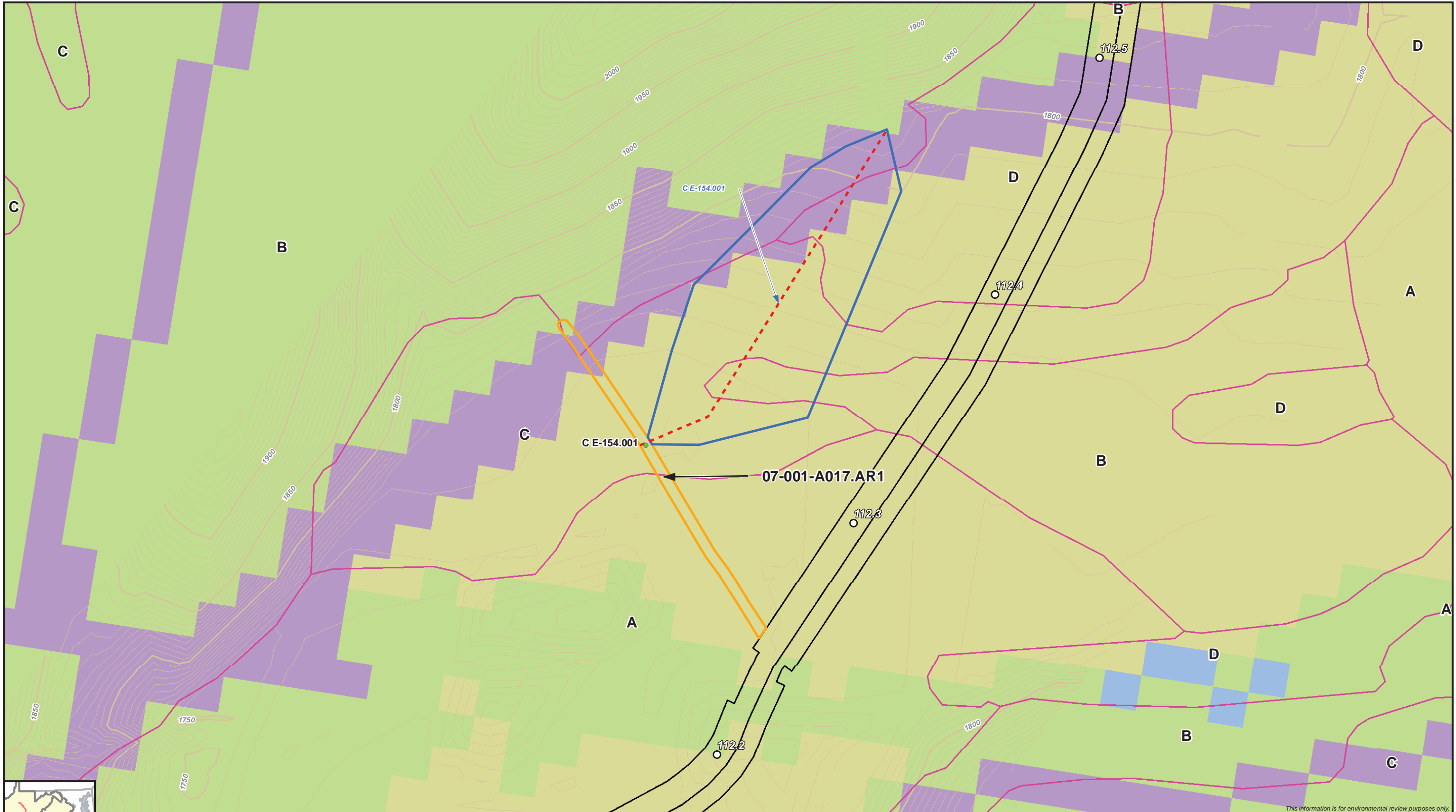
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel

Access Road Key →

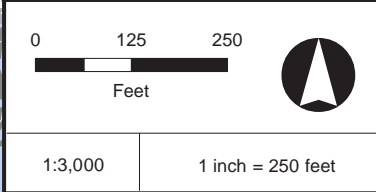
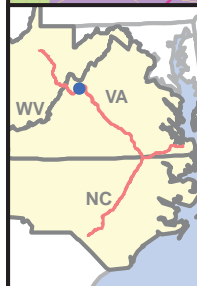


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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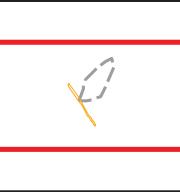


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

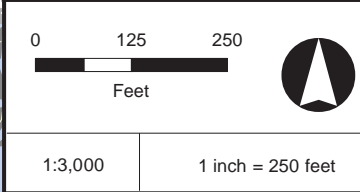
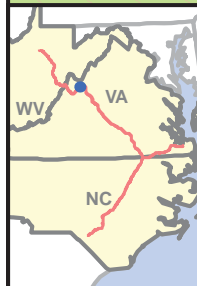
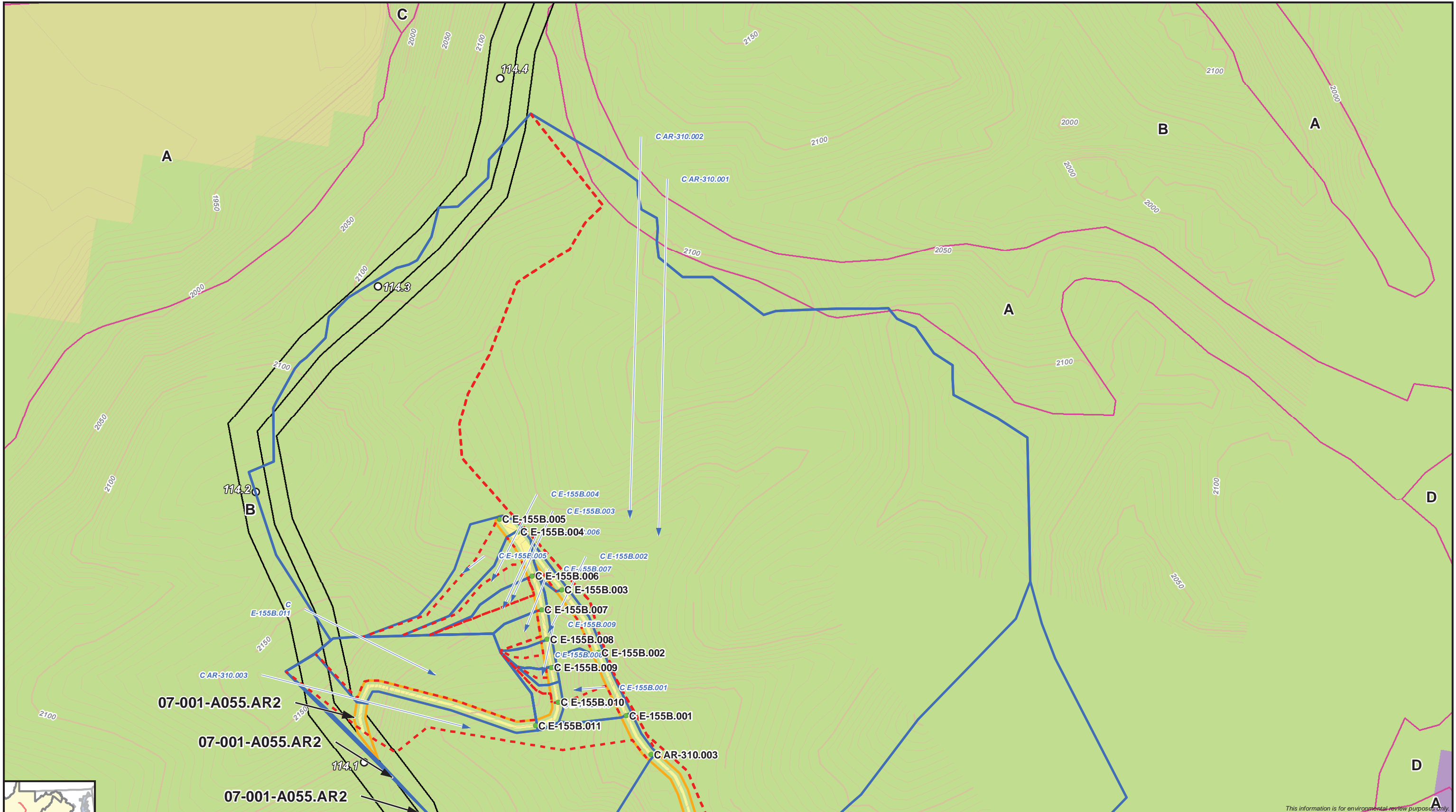
- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

- ▭ Forest
- ▭ Open Water

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

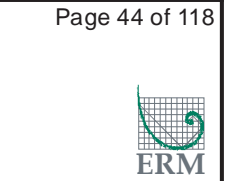
- - - Flow Path
 - Major Contour
 - Minor Contour
 - Ⓜ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

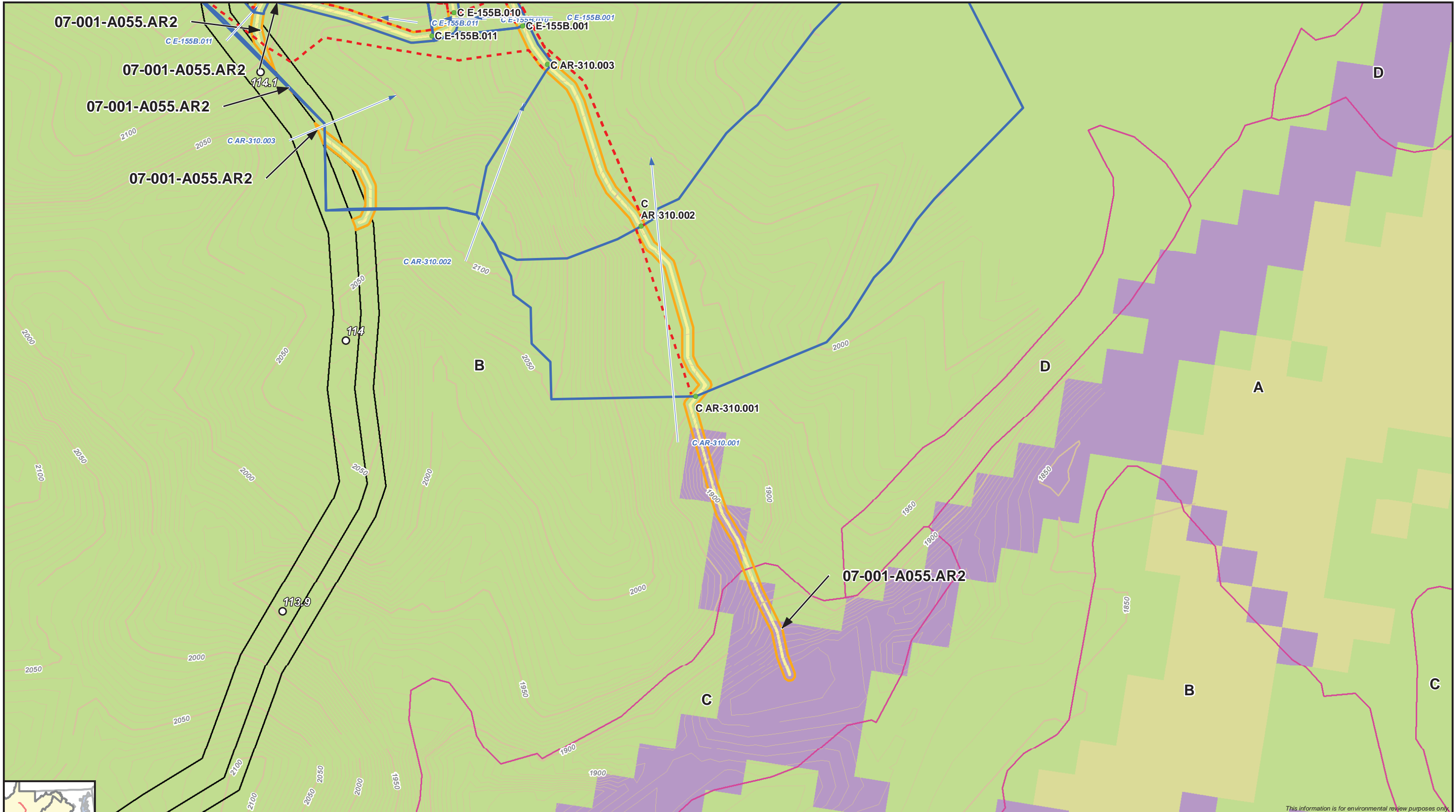
- ▭ Forest
- ▭ Gravel

Access Road Key →

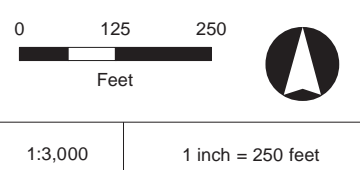
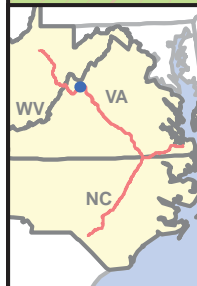


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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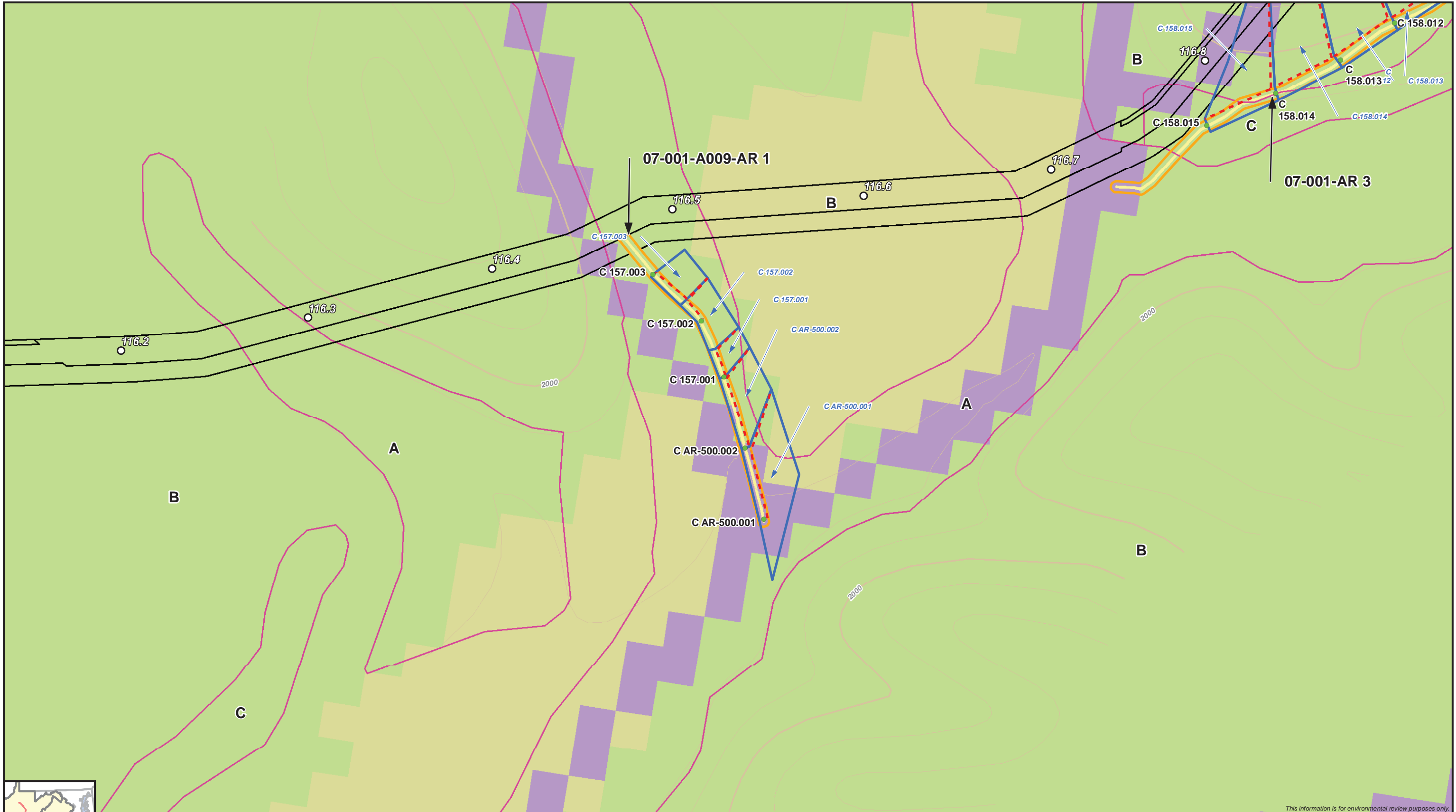
○ Milepost	--- Flow Path	Land Cover	Forest
Permanent Access Road ROW	— Major Contour	Agriculture	Gravel
Pipeline ROW	--- Minor Contour	Developed, Open Space	
Culvert Drainage Area	A Hydrologic Soil Group		
● Culvert			



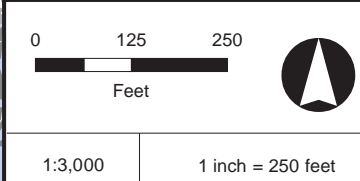
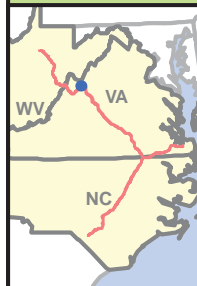
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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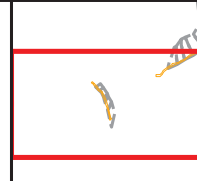


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

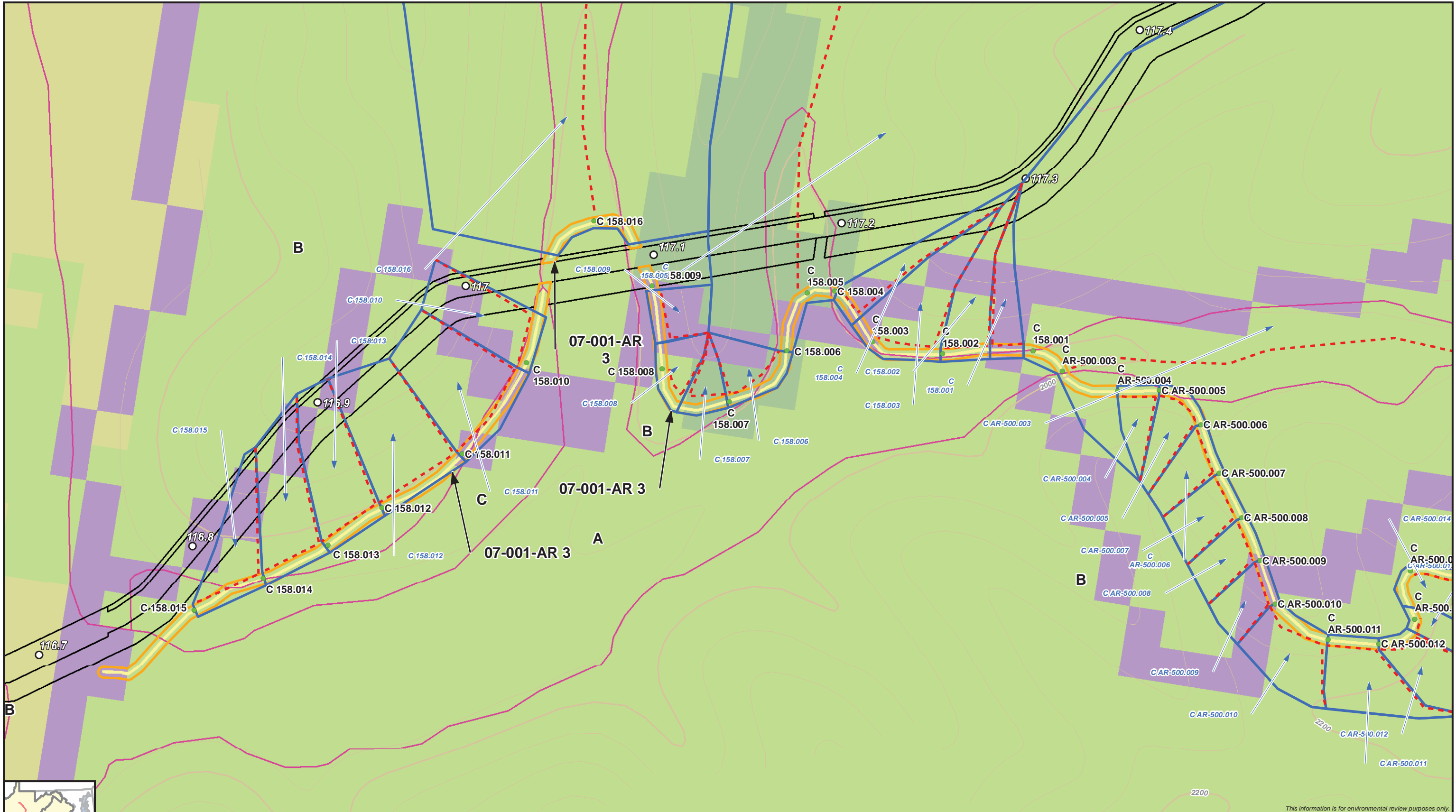
- ▭ Forest
- ▭ Gravel

Access Road Key →

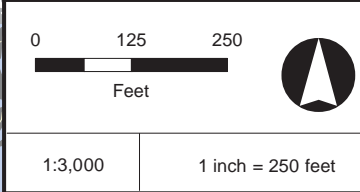
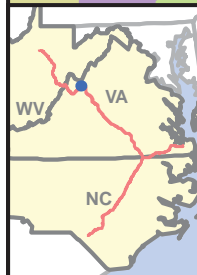


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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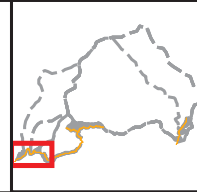
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Open Space

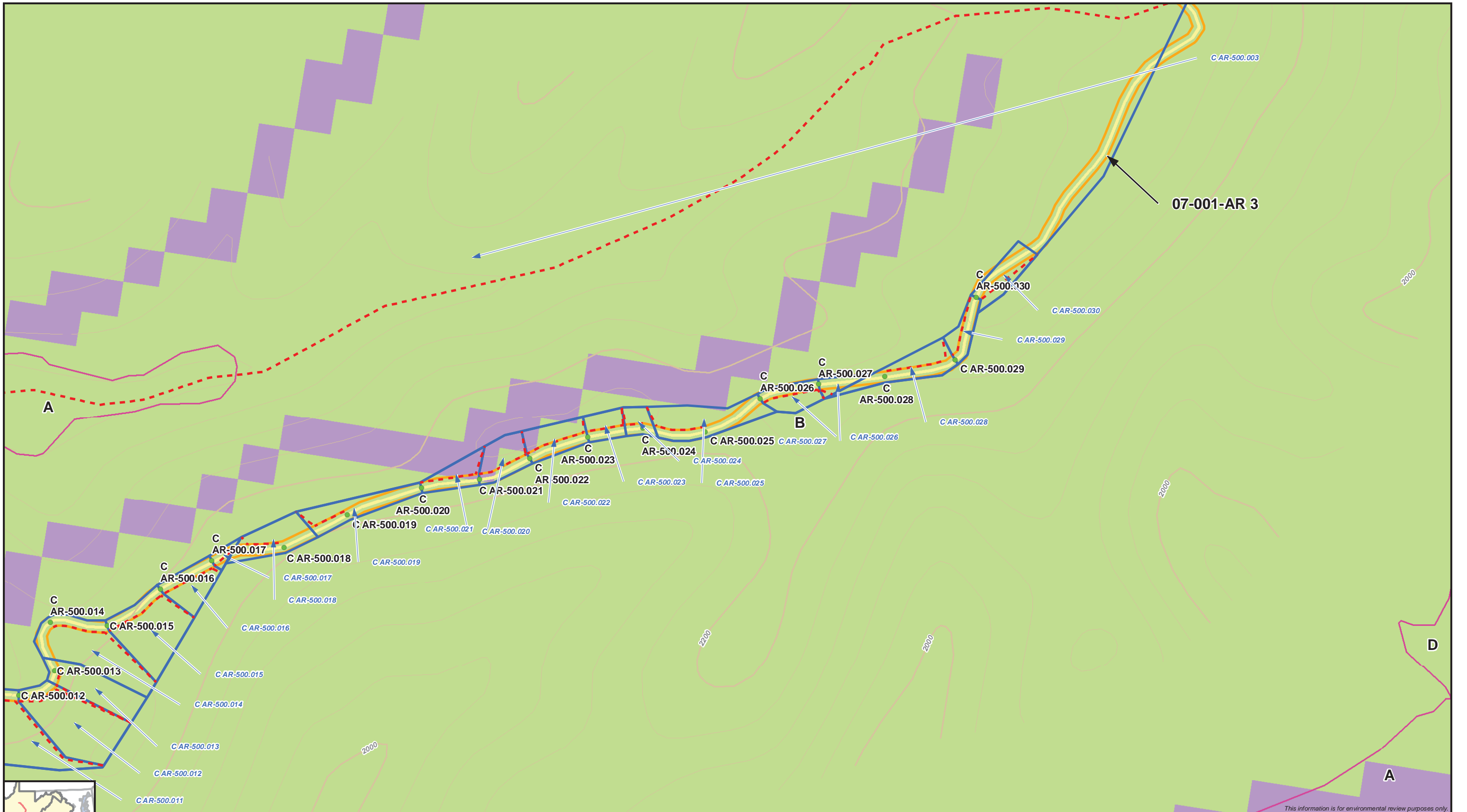
- Forest
- Grassland
- Gravel

Access Road Key →

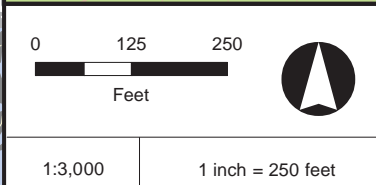


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





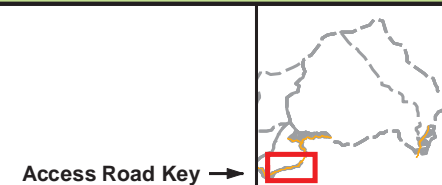
This information is for environmental review purposes only.



- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

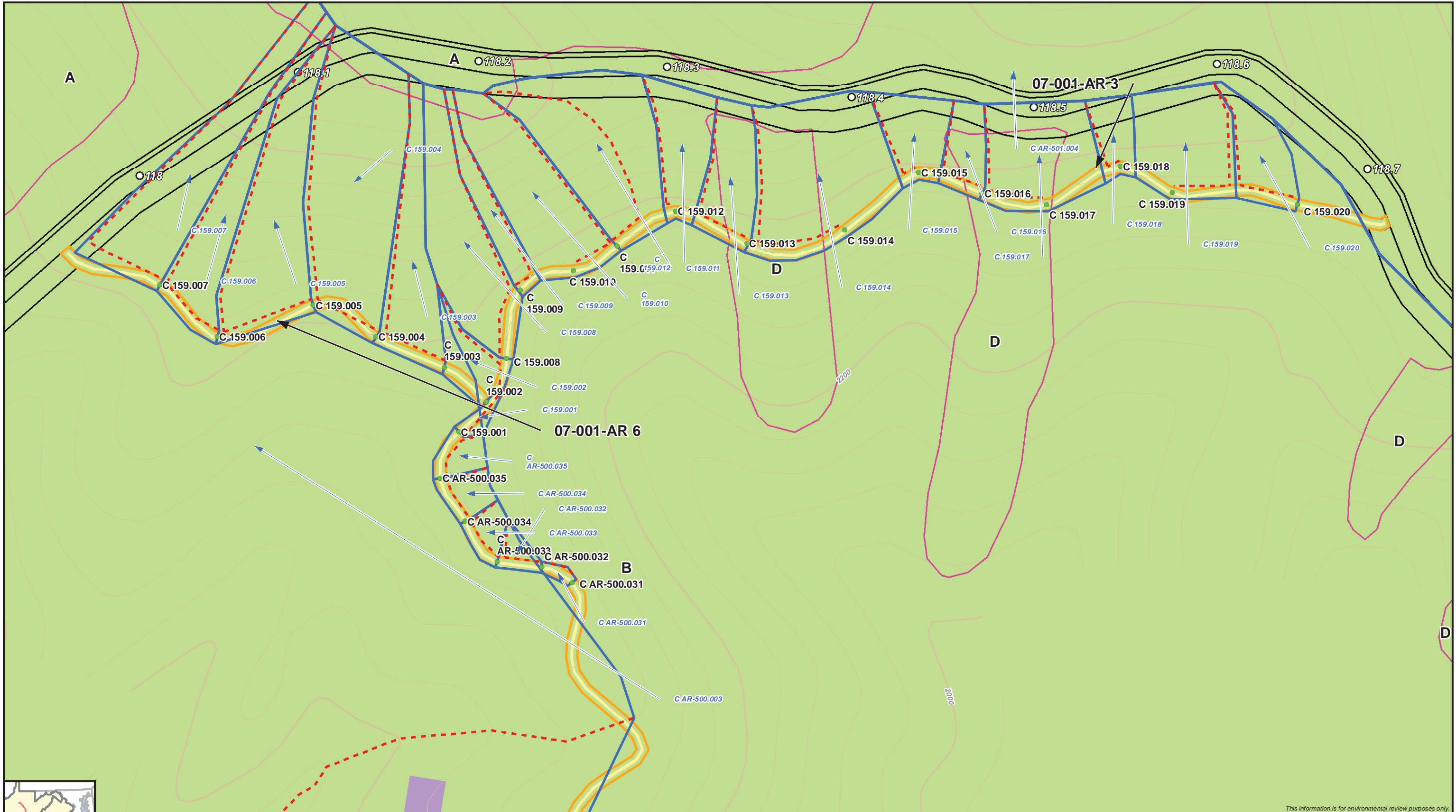
- - - Flow Path
- Major Contour
- Minor Contour
- Hydrologic Soil Group

- Land Cover**
- Developed, Open Space
 - Forest
 - Gravel

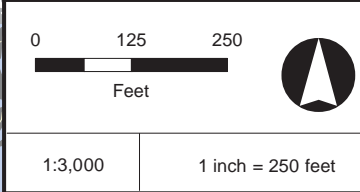
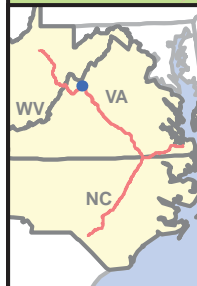


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



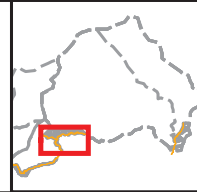


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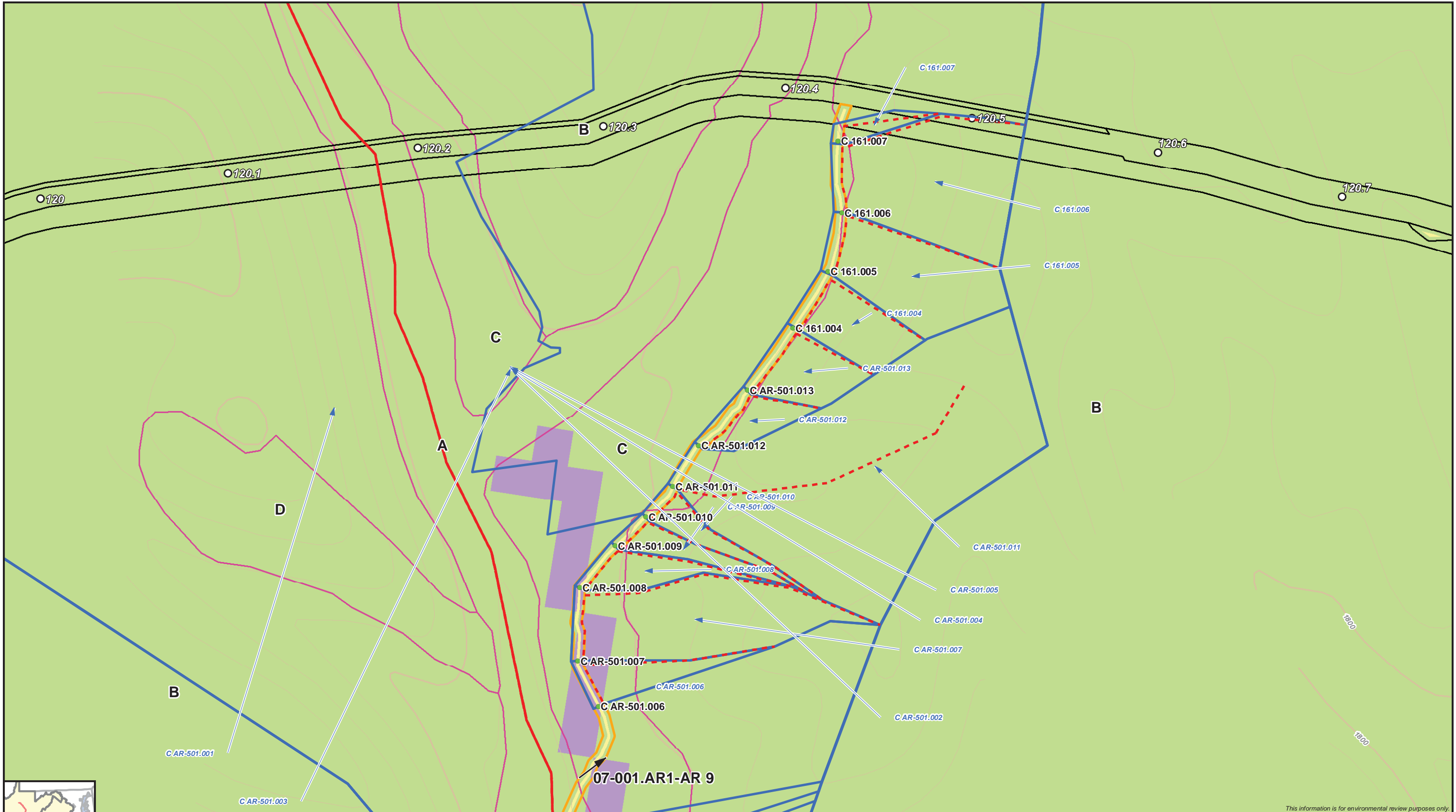
- | | | | |
|-----------------------------|-------------------------|-------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Forest |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | ■ Gravel |
| ▭ Pipeline ROW | --- Minor Contour | | |
| ▭ Culvert Drainage Area | ● Hydrologic Soil Group | | |
| ● Culvert | | | |

Access Road Key →

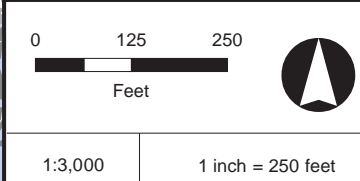
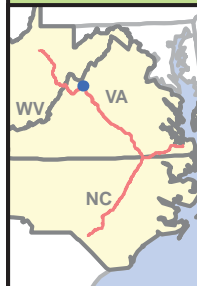


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

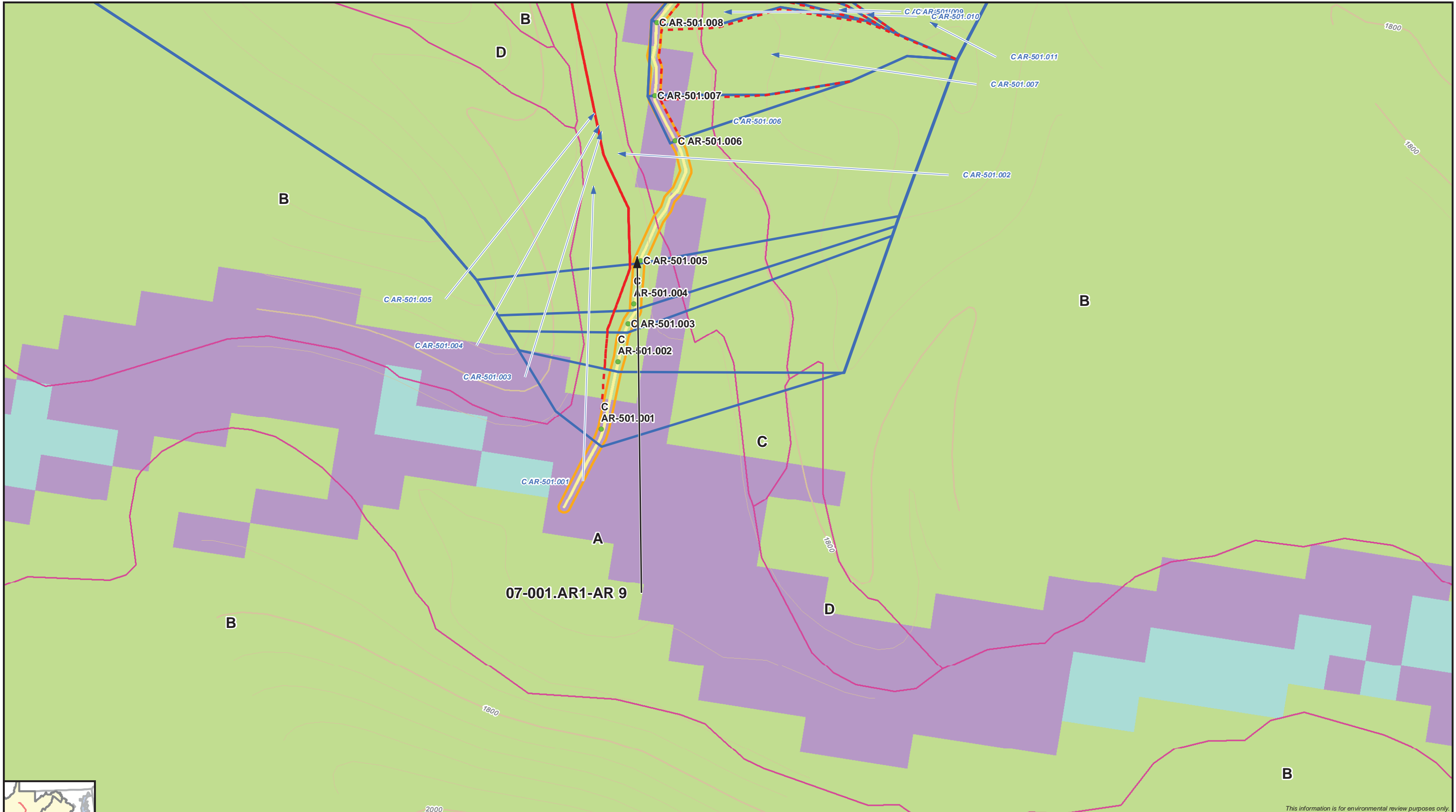
- Land Cover**
- ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel

Access Road Key →

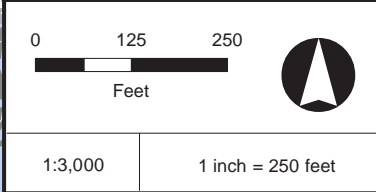
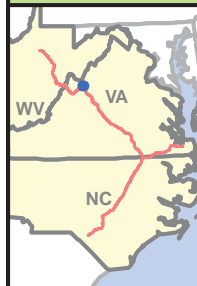


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





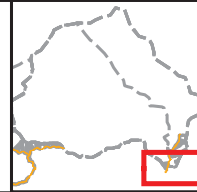
This information is for environmental review purposes only.



- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- Land Cover**
- Forest
 - Gravel
 - Developed, Low Intensity
 - Developed, Open Space
 - Hydrologic Soil Group A

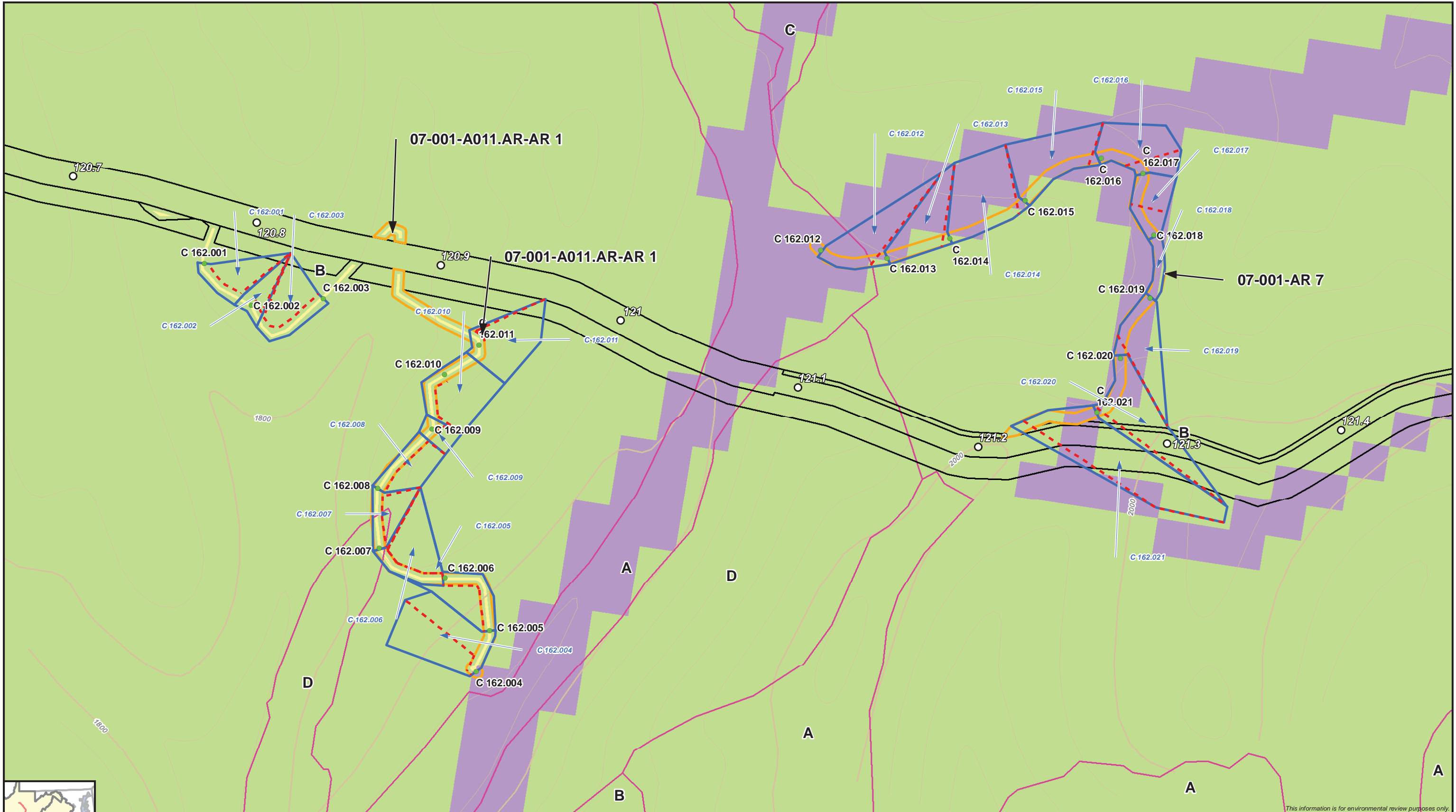
- - - Flow Path
- Major Contour
- Minor Contour



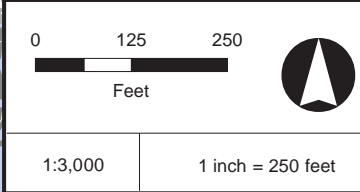
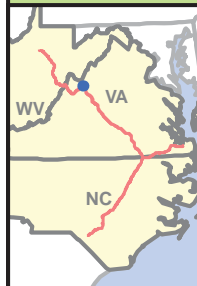
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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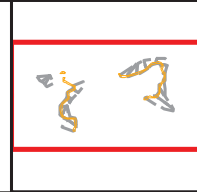


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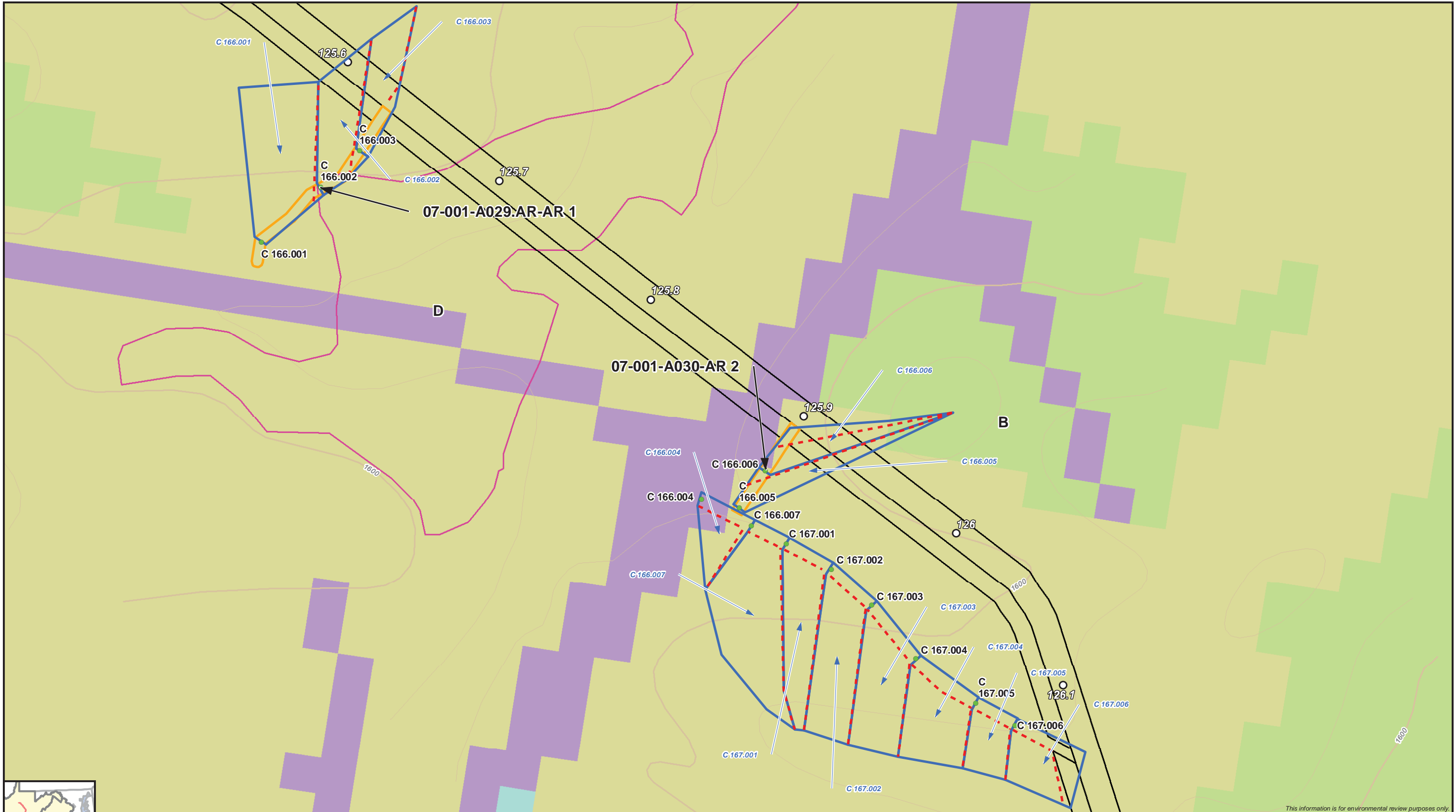
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|-----------------------------|-------------------------|-----------------------|--------|
| ○ Milepost | --- Flow Path | Land Cover | Forest |
| ▭ Permanent Access Road ROW | — Major Contour | Developed, Open Space | Gravel |
| ▭ Pipeline ROW | — Minor Contour | | |
| ▭ Culvert Drainage Area | ● Hydrologic Soil Group | | |
| ● Culvert | | | |

Access Road Key →

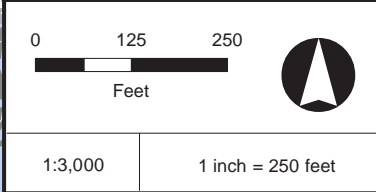


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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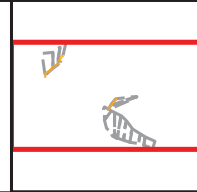


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

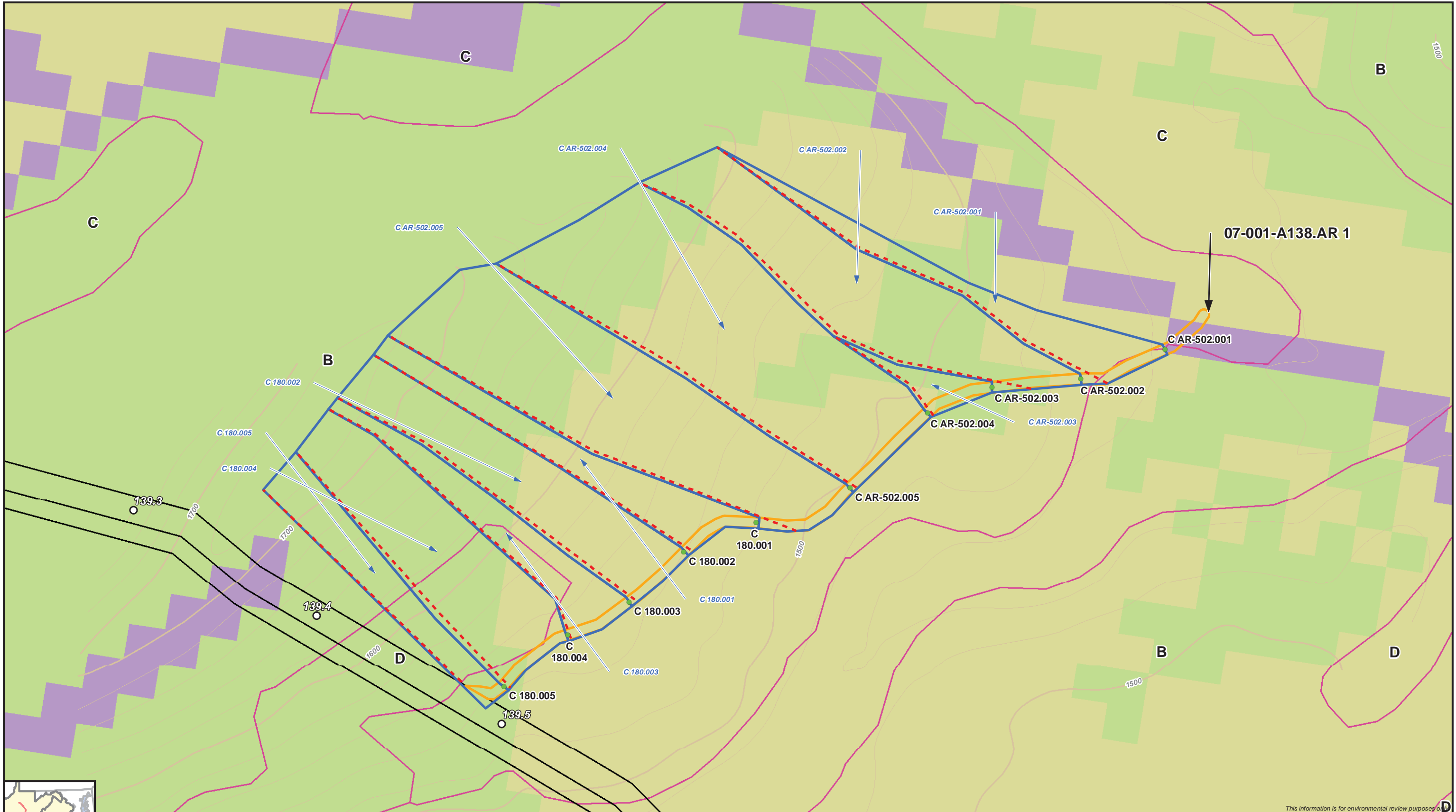
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space
 - ▭ Forest

Access Road Key →

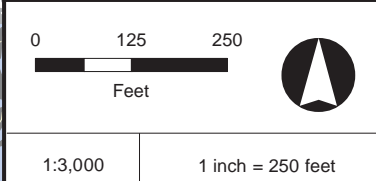


Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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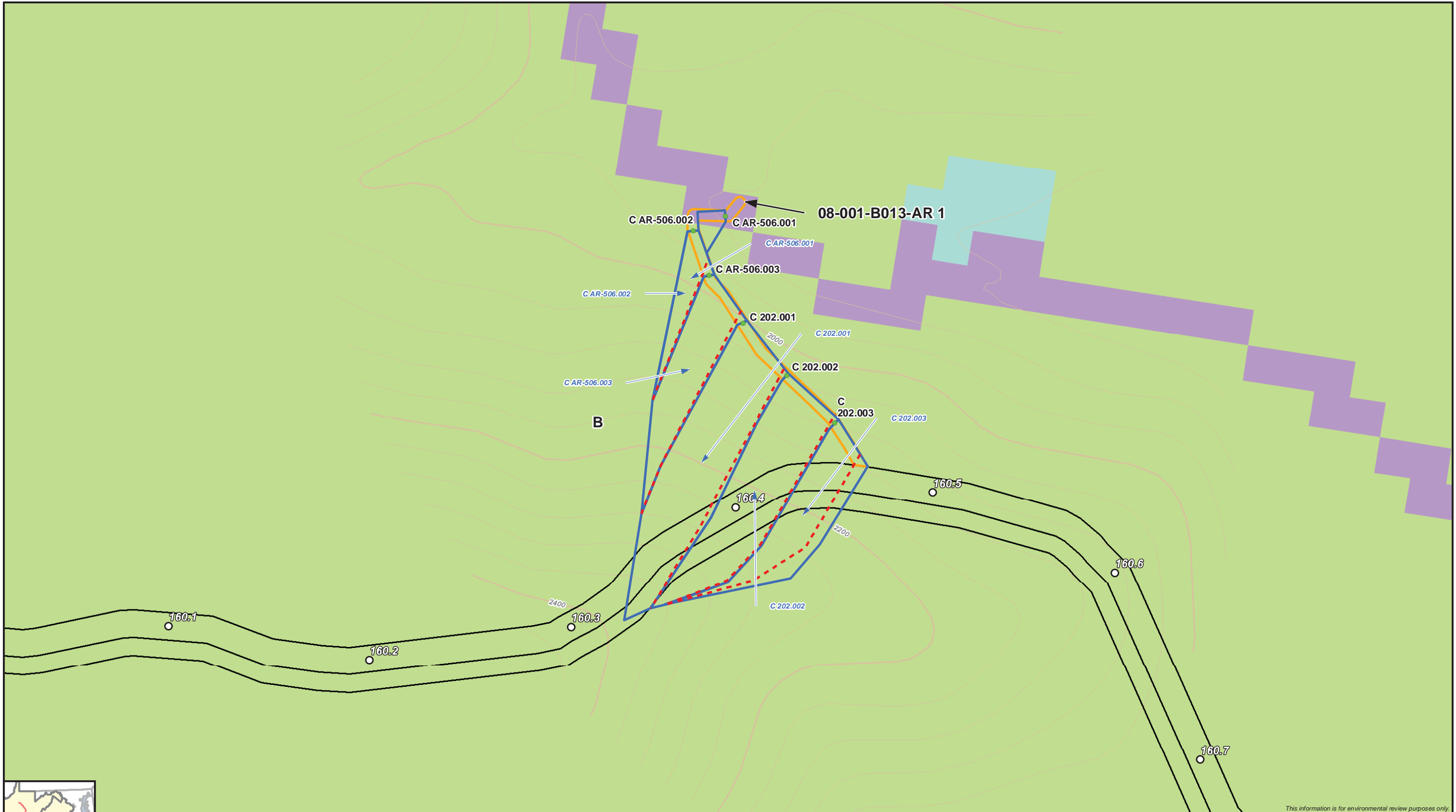
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|-----------------------------|-----------------|-------------------------|-------------------------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Developed, Open Space |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Agriculture | ■ Forest |
| ▭ Pipeline ROW | — Minor Contour | ■ Hydrologic Soil Group | |
| ▭ Culvert Drainage Area | ● Culvert | | |

Access Road Key →

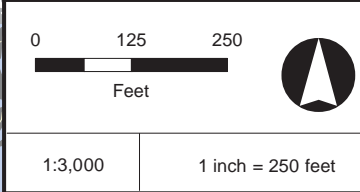
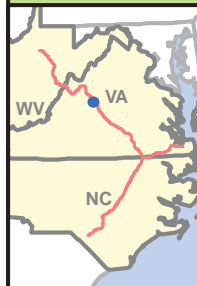


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



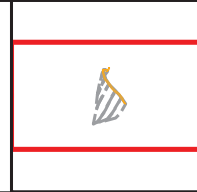


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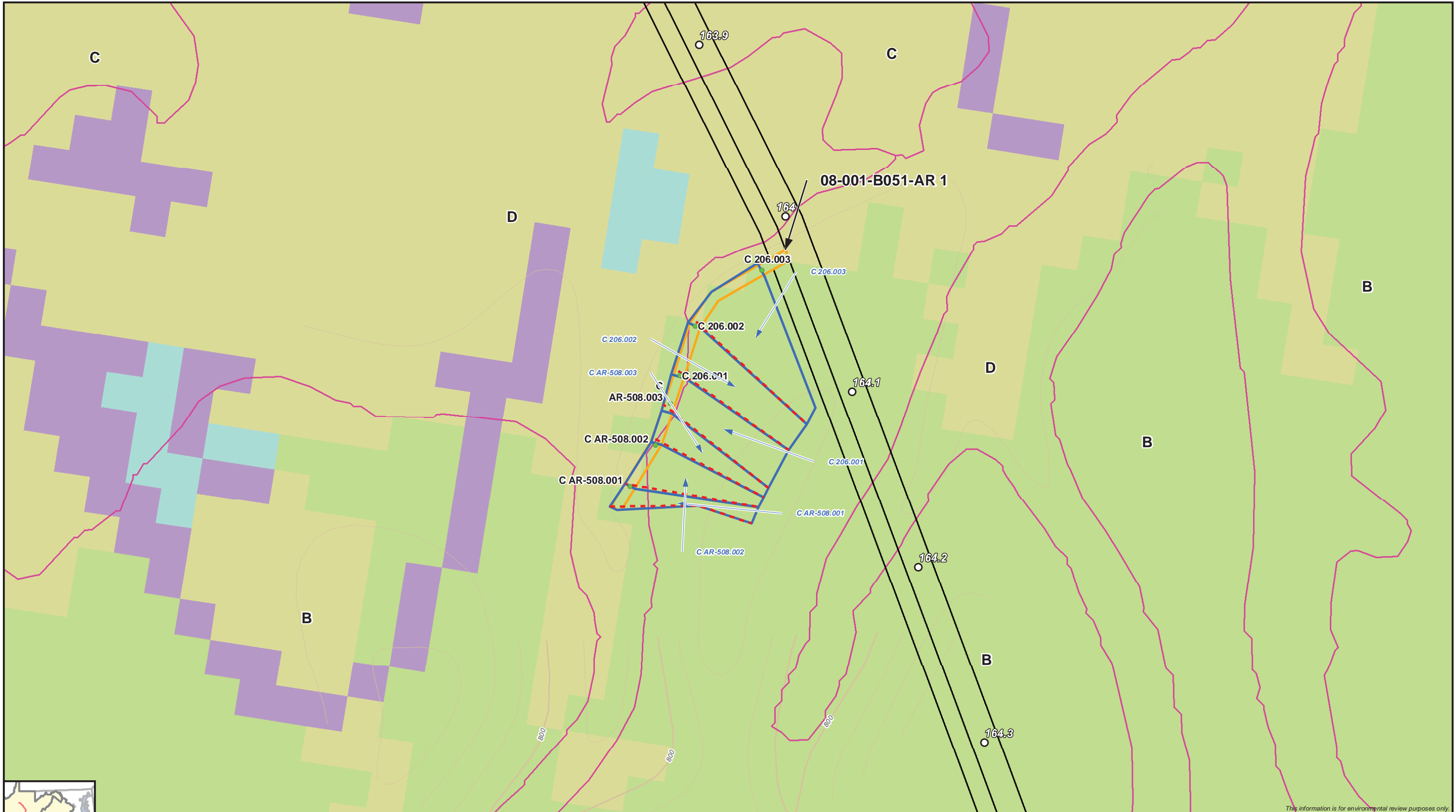
○ Milepost	--- Flow Path	Land Cover	■ Developed, Open Space
▭ Permanent Access Road ROW	— Major Contour	■ Developed, Low Intensity	■ Forest
▭ Pipeline ROW	— Minor Contour		
▭ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			

Access Road Key →

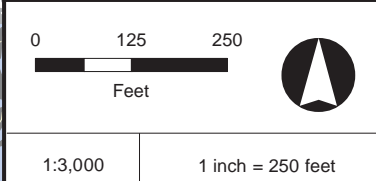


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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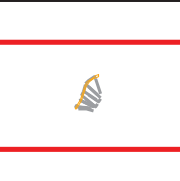
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Low Intensity

- Developed, Open Space
- Forest

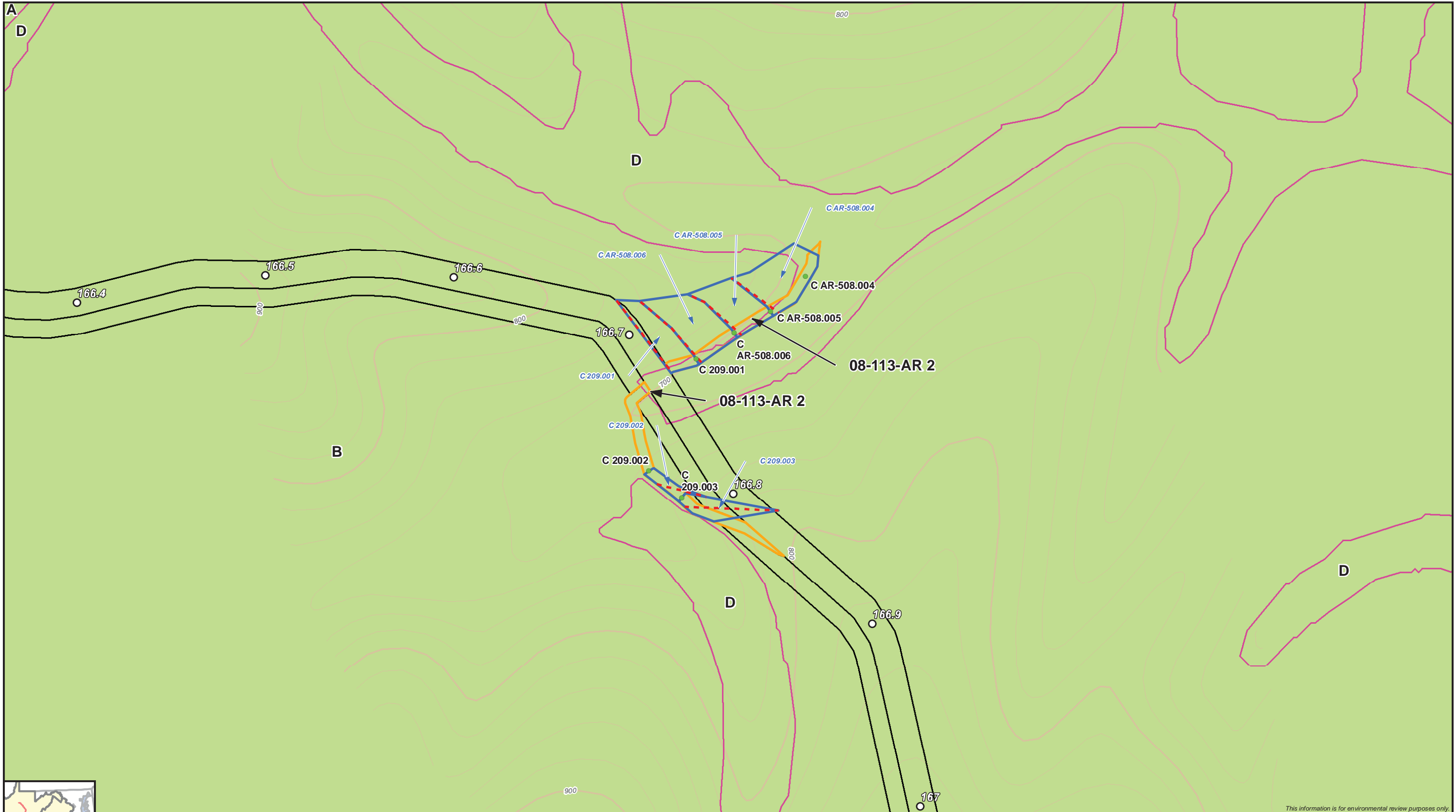
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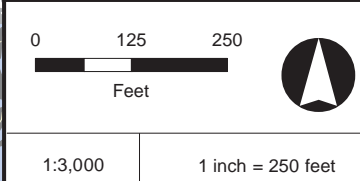
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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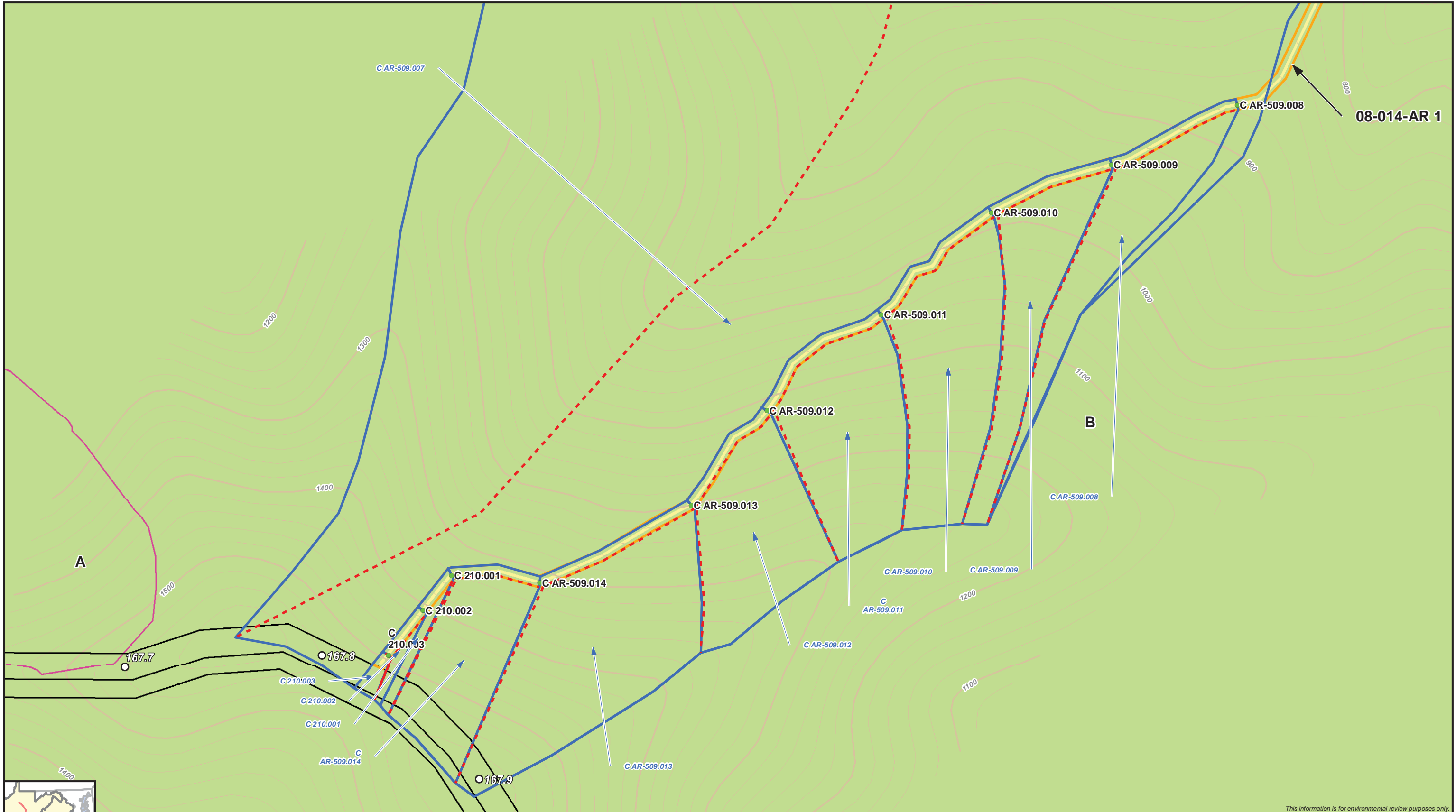
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|-----------------------------|-------------------------|-------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Forest |
| ▭ Permanent Access Road ROW | — Major Contour | | |
| ▭ Pipeline ROW | — Minor Contour | | |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

Access Road Key →



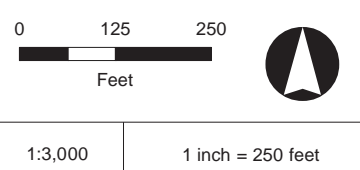
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group
- Land Cover**
- ▭ Forest
- ▭ Gravel

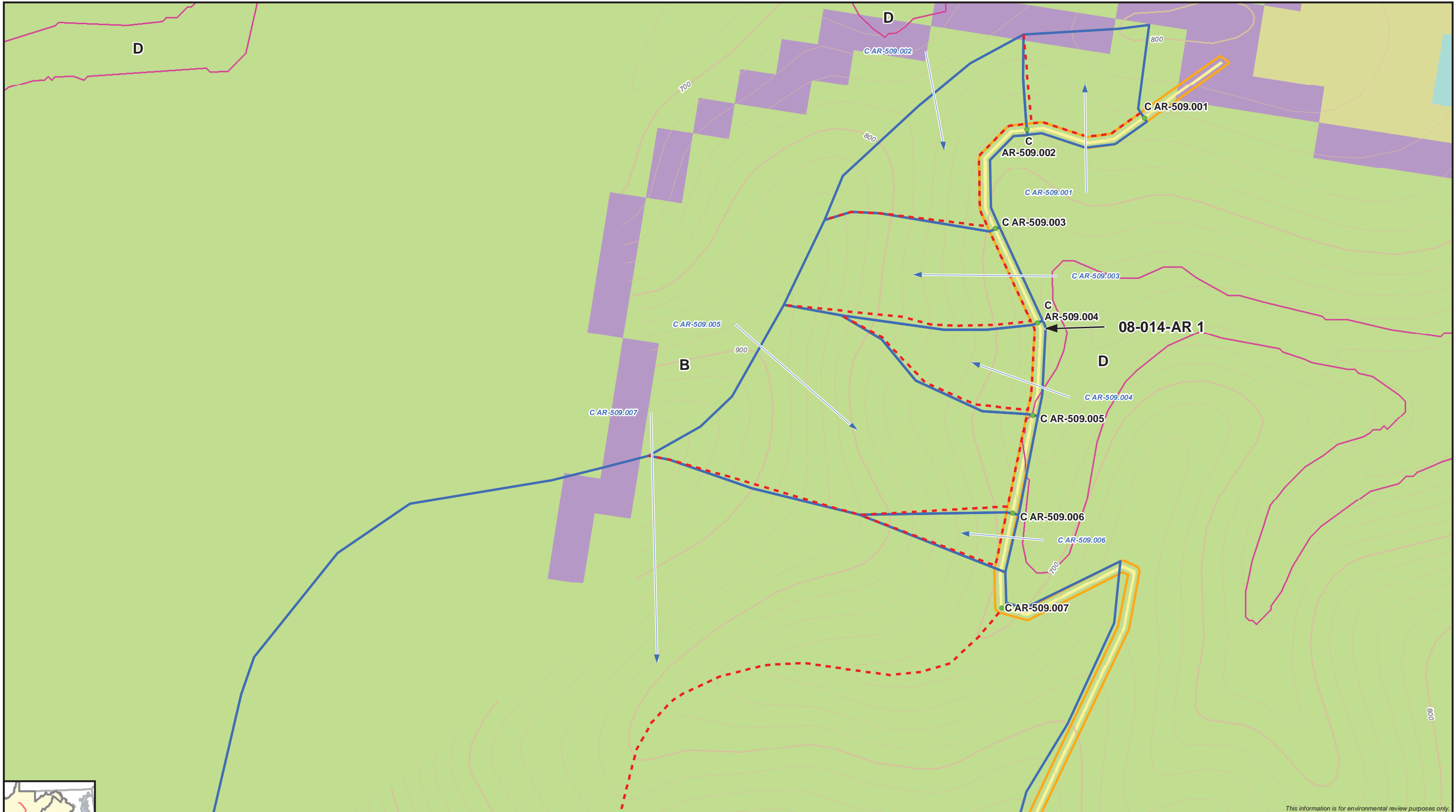
Access Road Key →



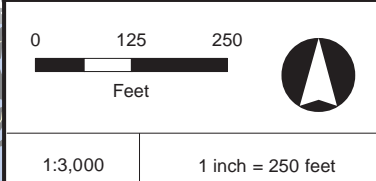
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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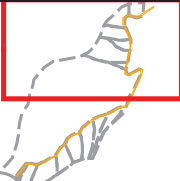


- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- Flow Path**
- - - Major Contour
 - - - Minor Contour
 - A Hydrologic Soil Group

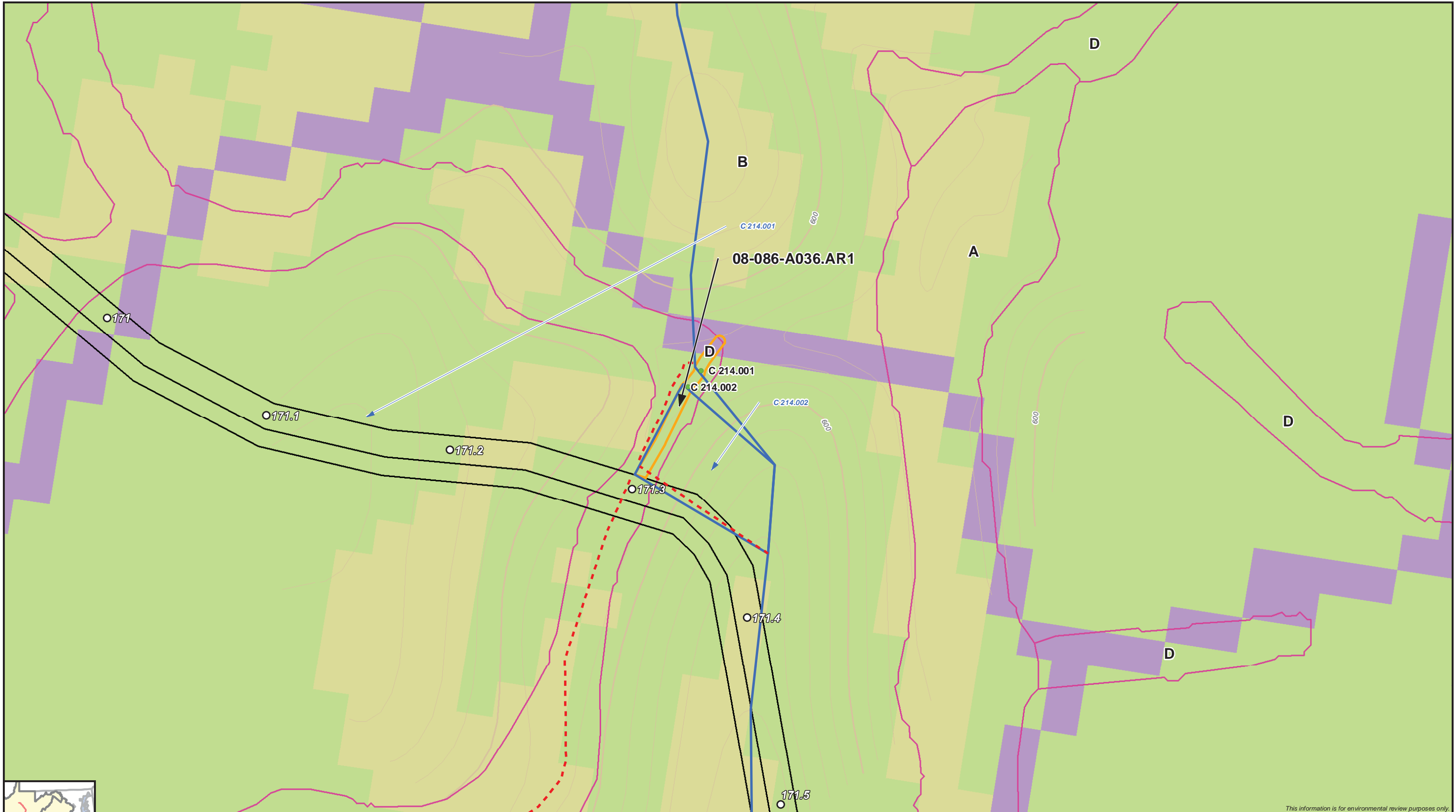
- Land Cover**
- Agriculture
 - Forest
 - Developed, Low Intensity
 - Developed, Open Space
 - Gravel

Access Road Key →

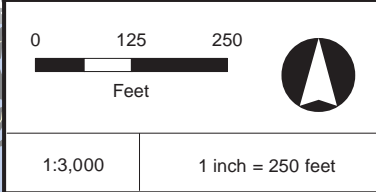


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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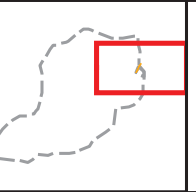
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

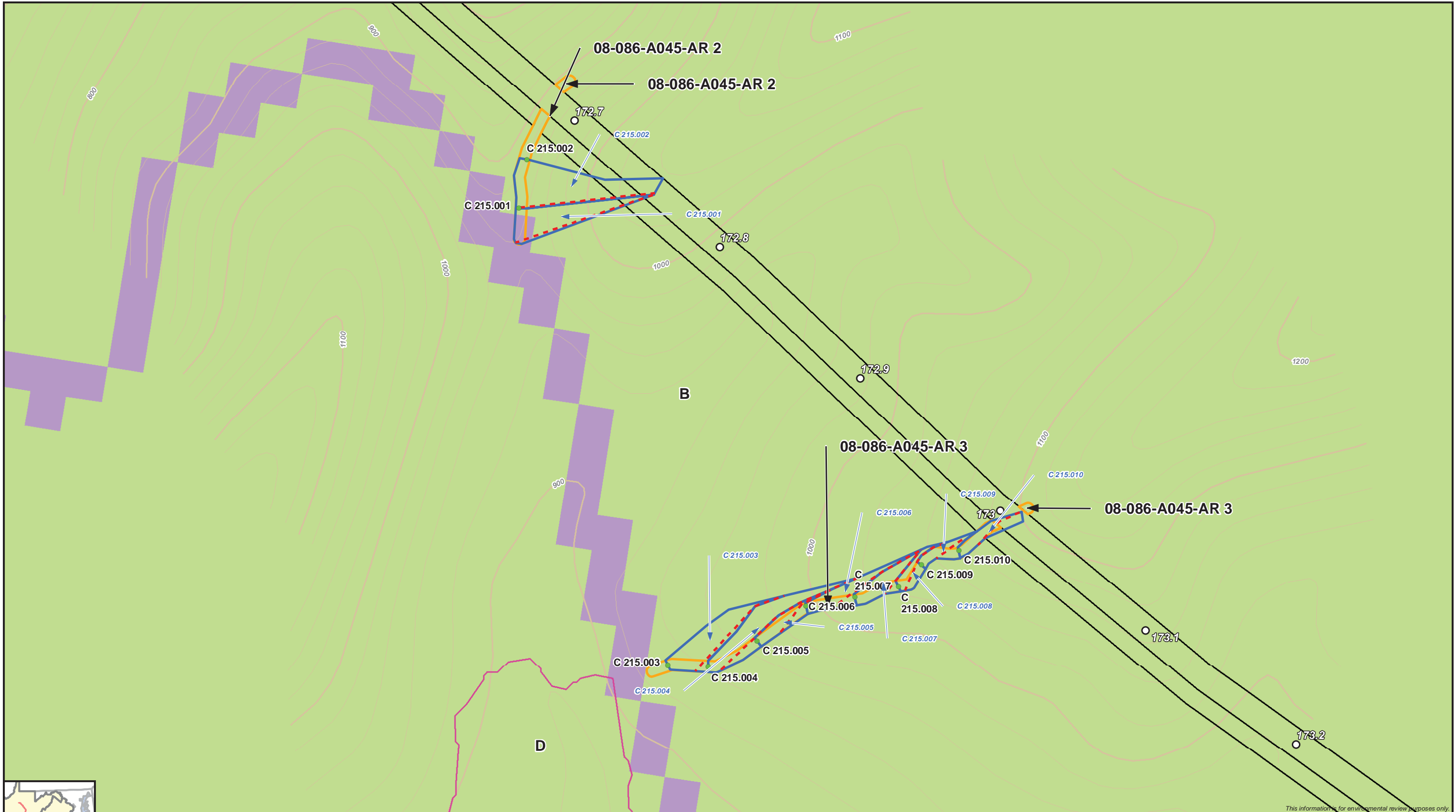
- Land Cover**
- ▭ Agriculture
 - ▭ Forest

- ▭ Developed, Open Space

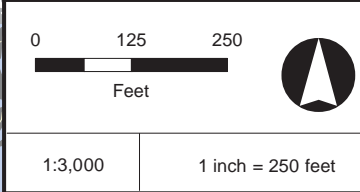
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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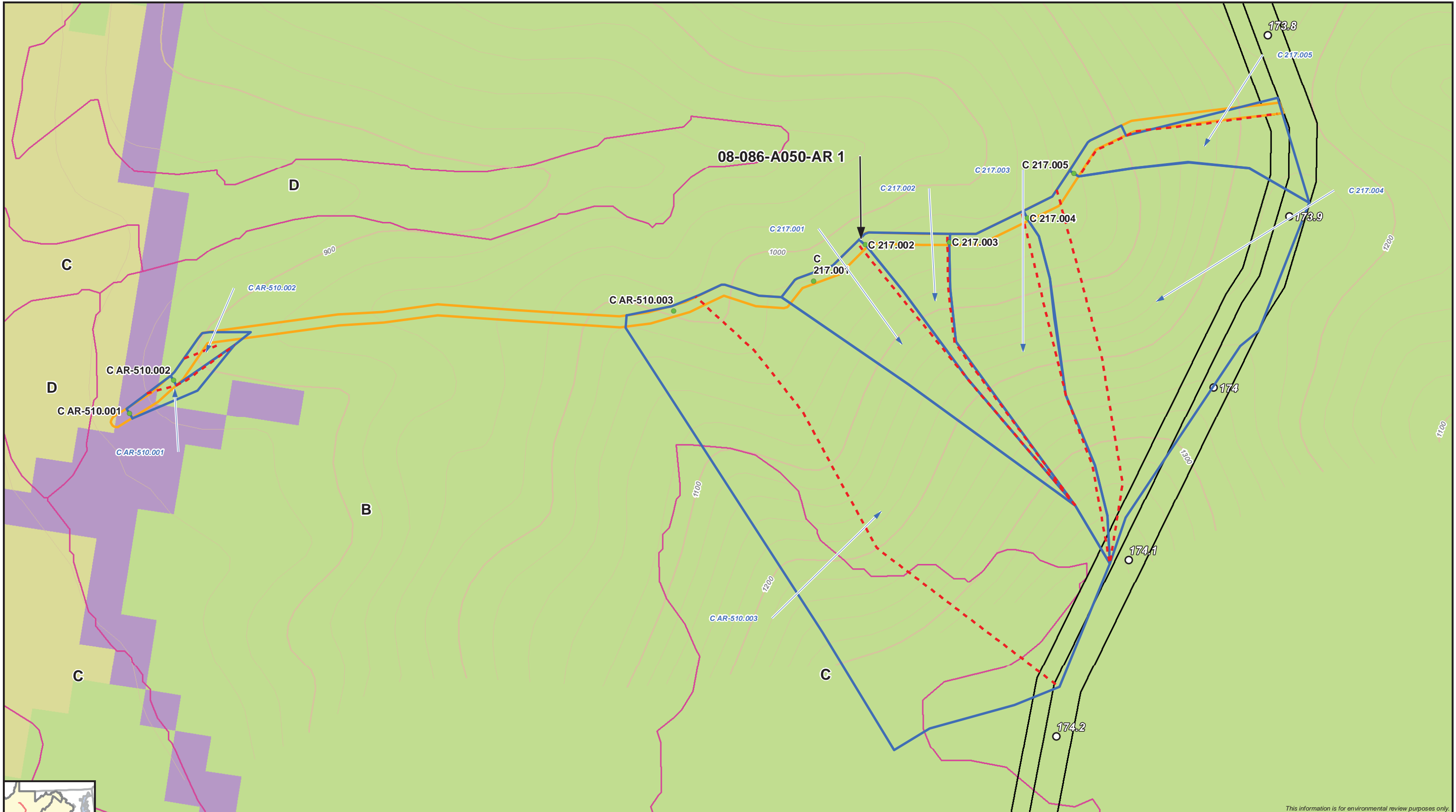


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|-----------------------------|-----------------|-------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Forest |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | |
| ▭ Pipeline ROW | — Minor Contour | ■ Hydrologic Soil Group | |
| ▭ Culvert Drainage Area | ● Culvert | | |

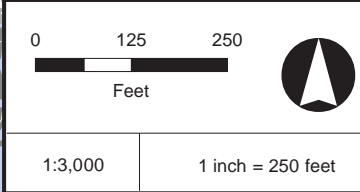


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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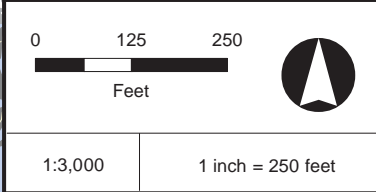
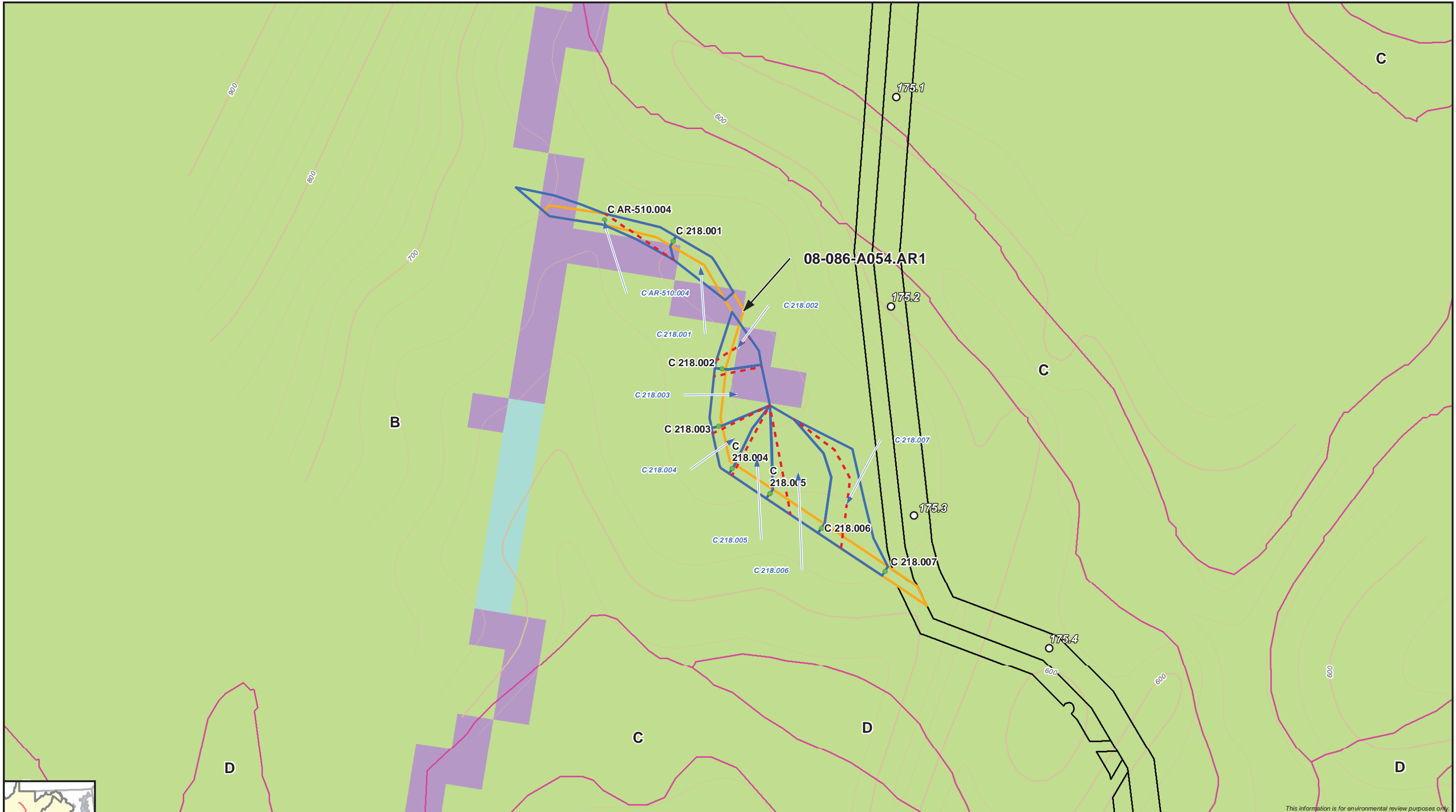


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|-----------------------------|---------------------------|-------------------|-------------------------|
| ○ Milepost | — Flow Path | Land Cover | ■ Developed, Open Space |
| ■ Permanent Access Road ROW | — Major Contour | ■ Agriculture | ■ Forest |
| ■ Pipeline ROW | — Minor Contour | | |
| ■ Culvert Drainage Area | ■ Hydrologic Soil Group A | | |
| ● Culvert | | | |

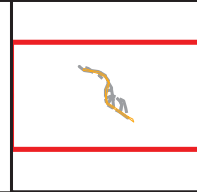


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





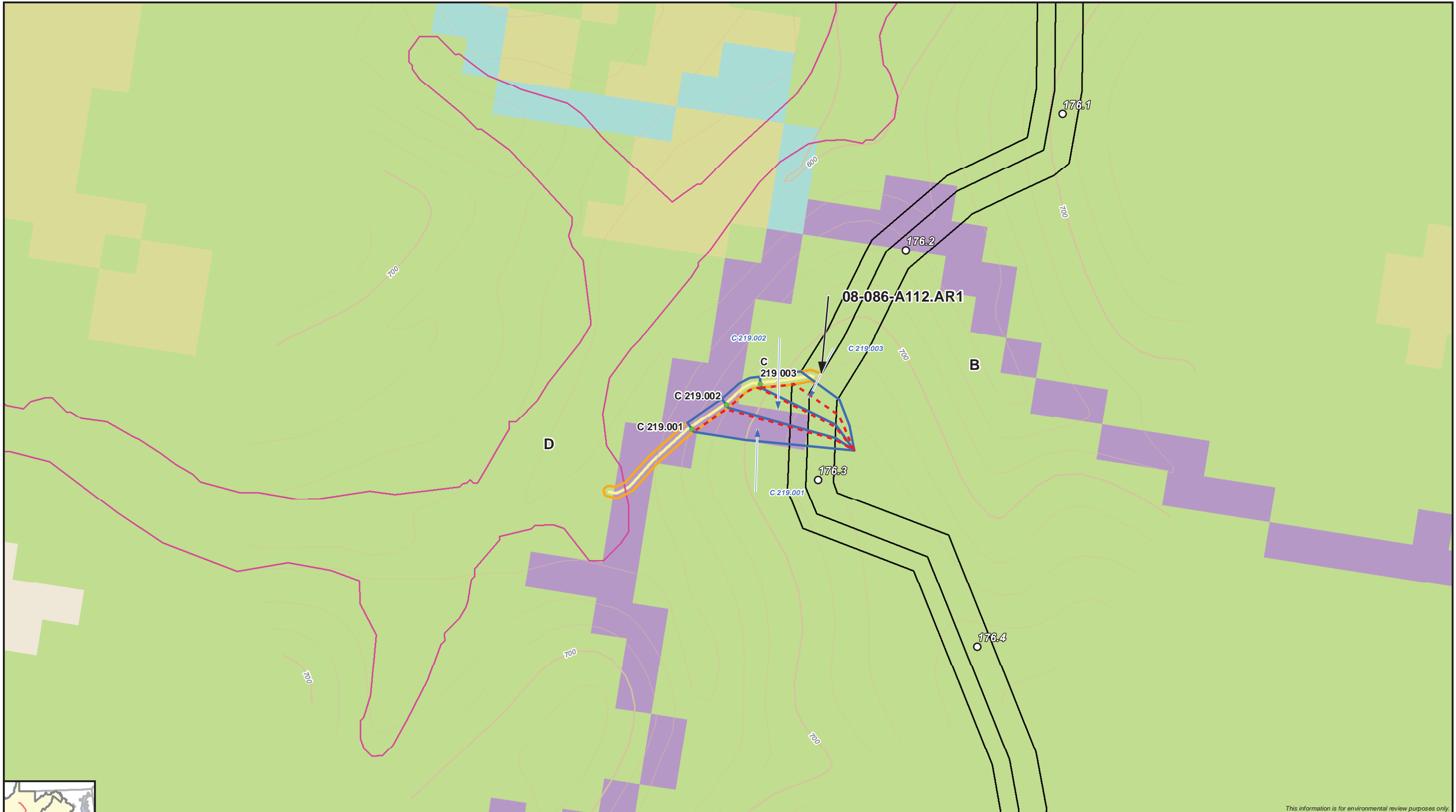
○ Milepost	--- Flow Path	Land Cover	■ Developed, Open Space
■ Permanent Access Road ROW	— Major Contour	■ Developed, Low Intensity	■ Forest
■ Pipeline ROW	— Minor Contour		
■ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			



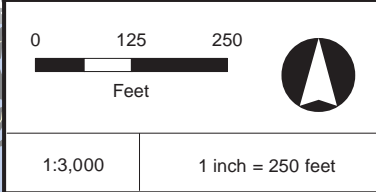
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Virginia Culvert and Ditch Analysis Permanent Access Roads Pre-Development Conditions

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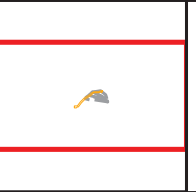
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Forest
 - Agriculture
 - Developed, Low Intensity
 - Developed, Open Space

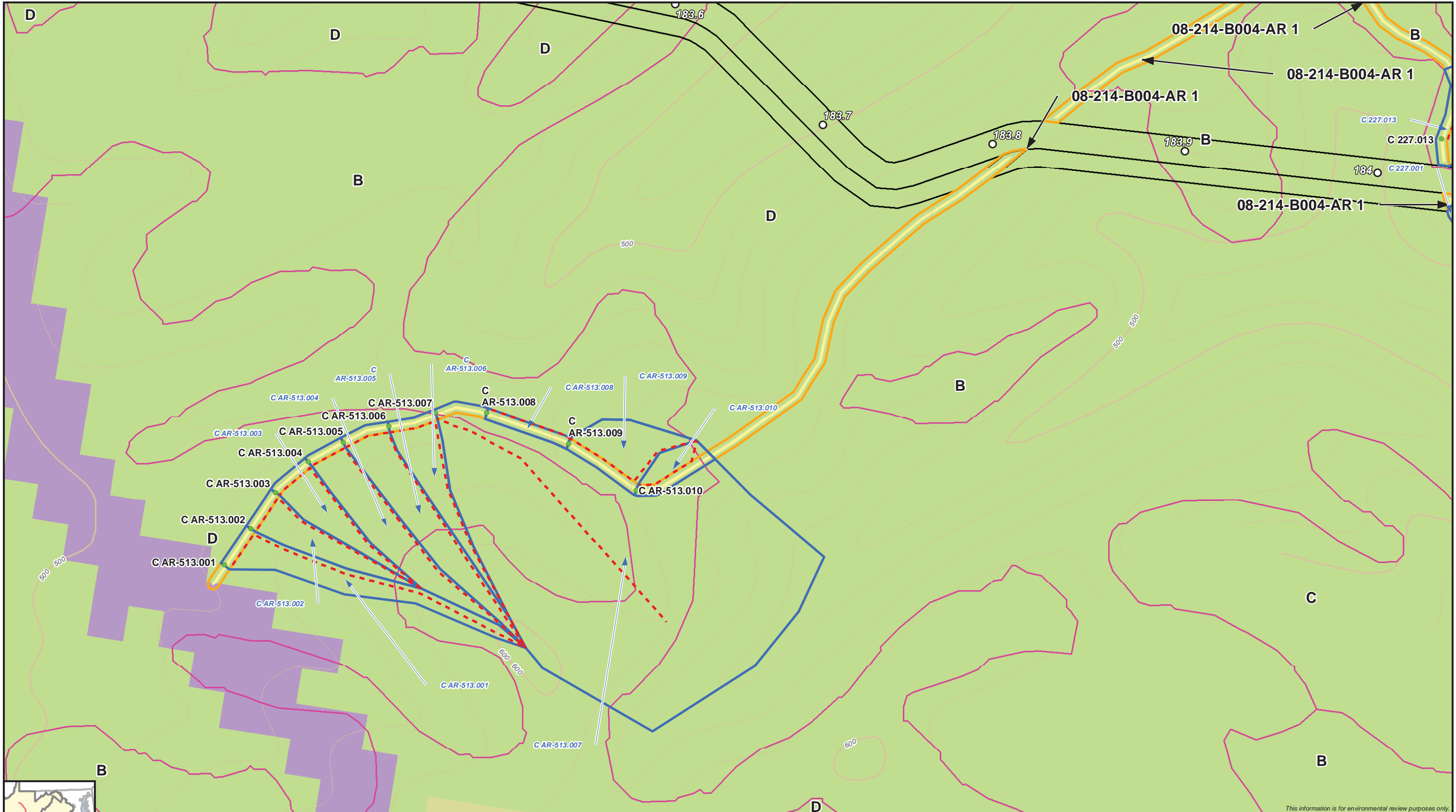
- Gravel
- Shrub

Access Road Key →

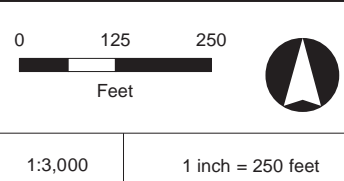
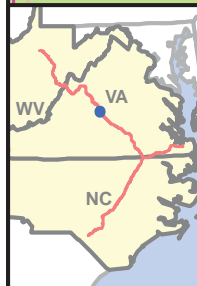


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - Hydrologic Soil Group
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel

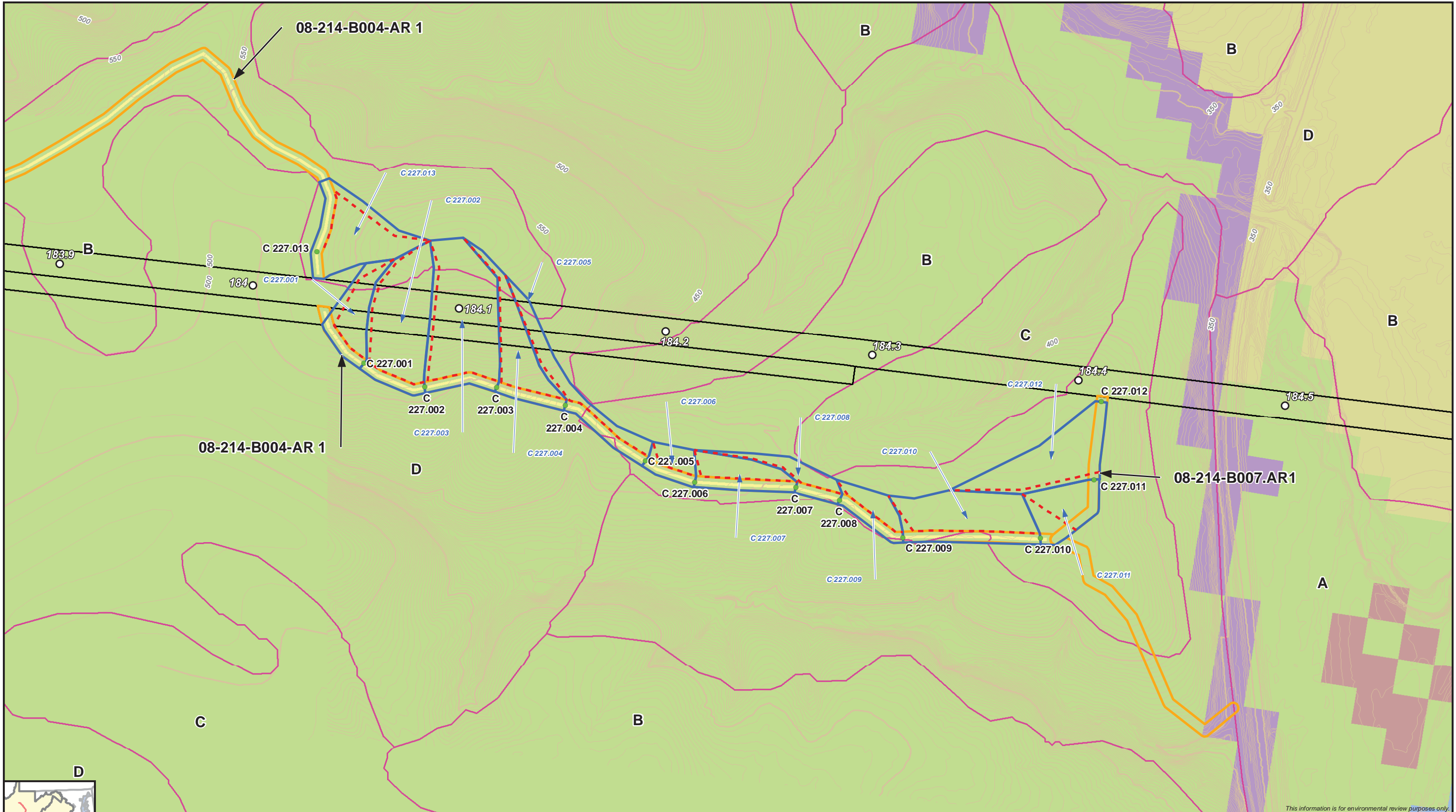
Access Road Key →



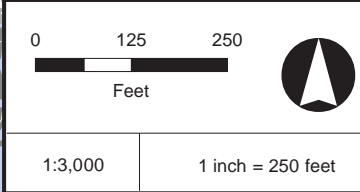
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



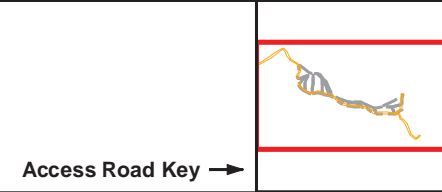
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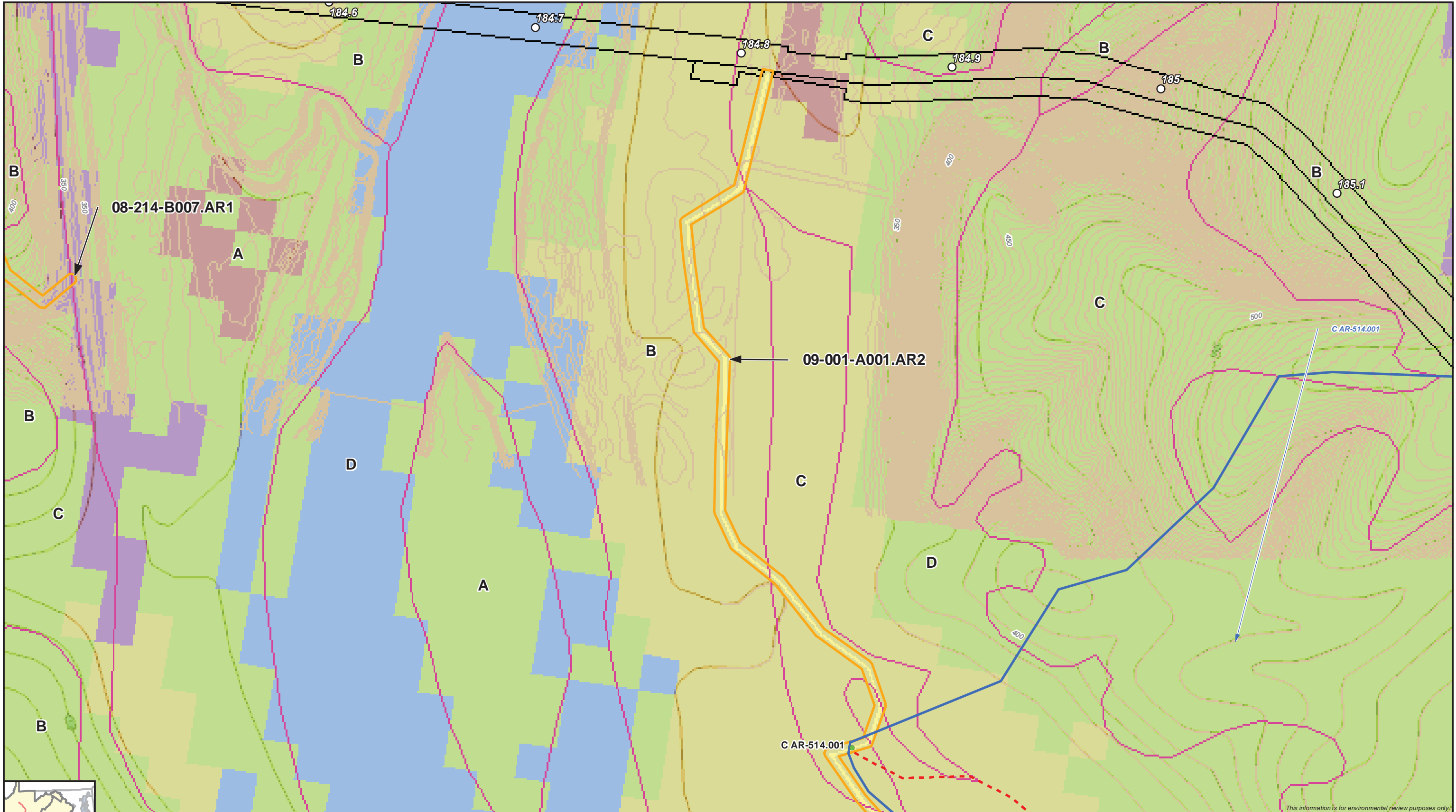


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|-----------------------------|-------------------------|-------------------------|--------------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Agriculture | ■ Open Water |
| ▭ Pipeline ROW | — Minor Contour | ■ Developed, Open Space | ■ Wetlands |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | ■ Forest | |
| ● Culvert | | | |

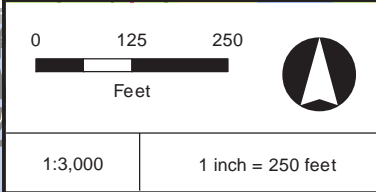


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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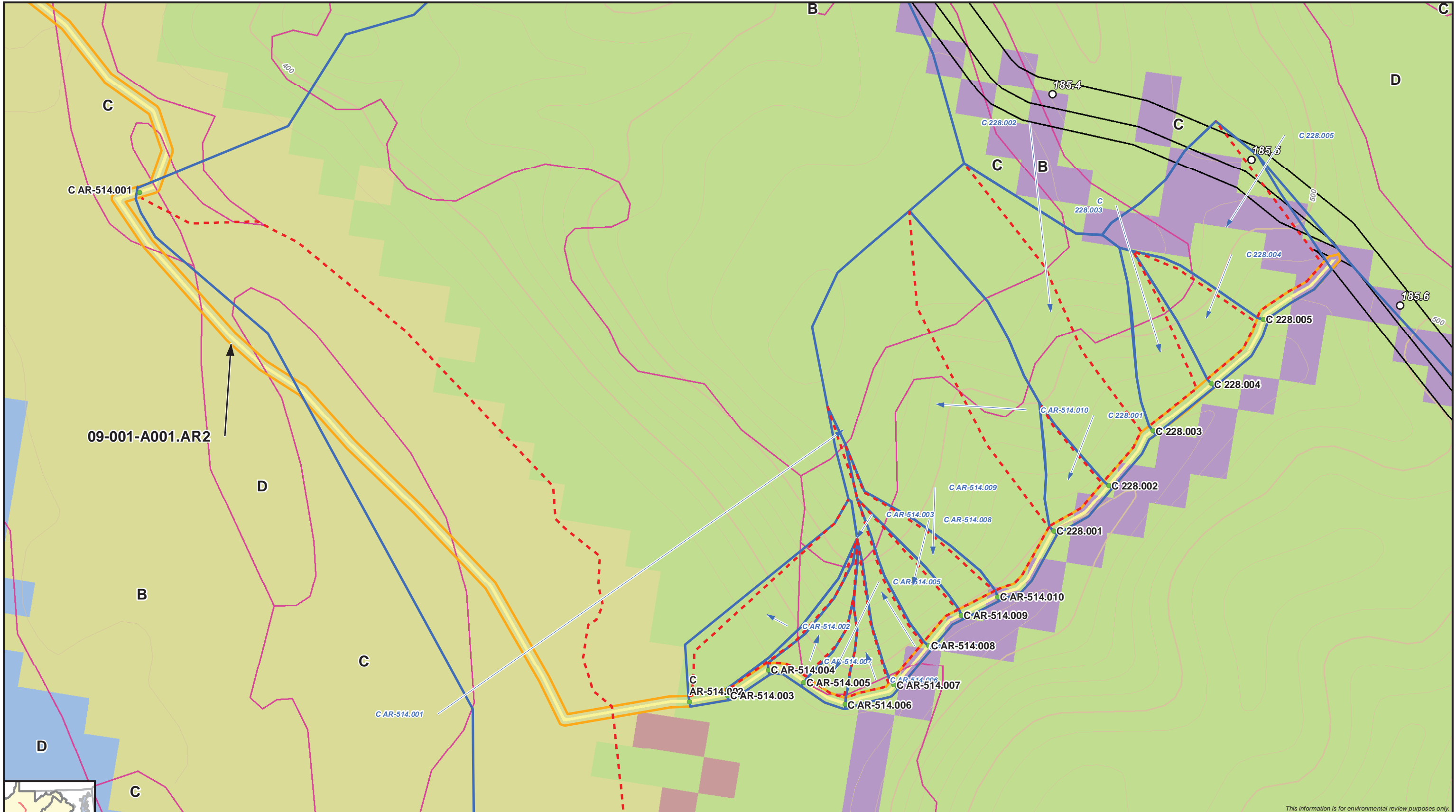


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Land Cover**
- ▭ Agriculture
- ▭ Developed, Open Space
- ▭ Forest
- ▭ Gravel
- ▭ Open Water
- ▭ Wetlands
- ▭ Hydrologic Soil Group

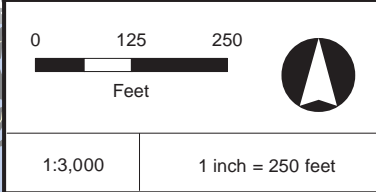


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

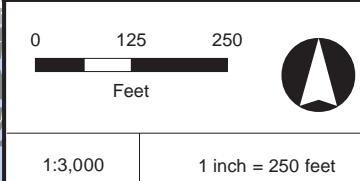
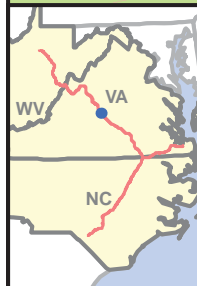
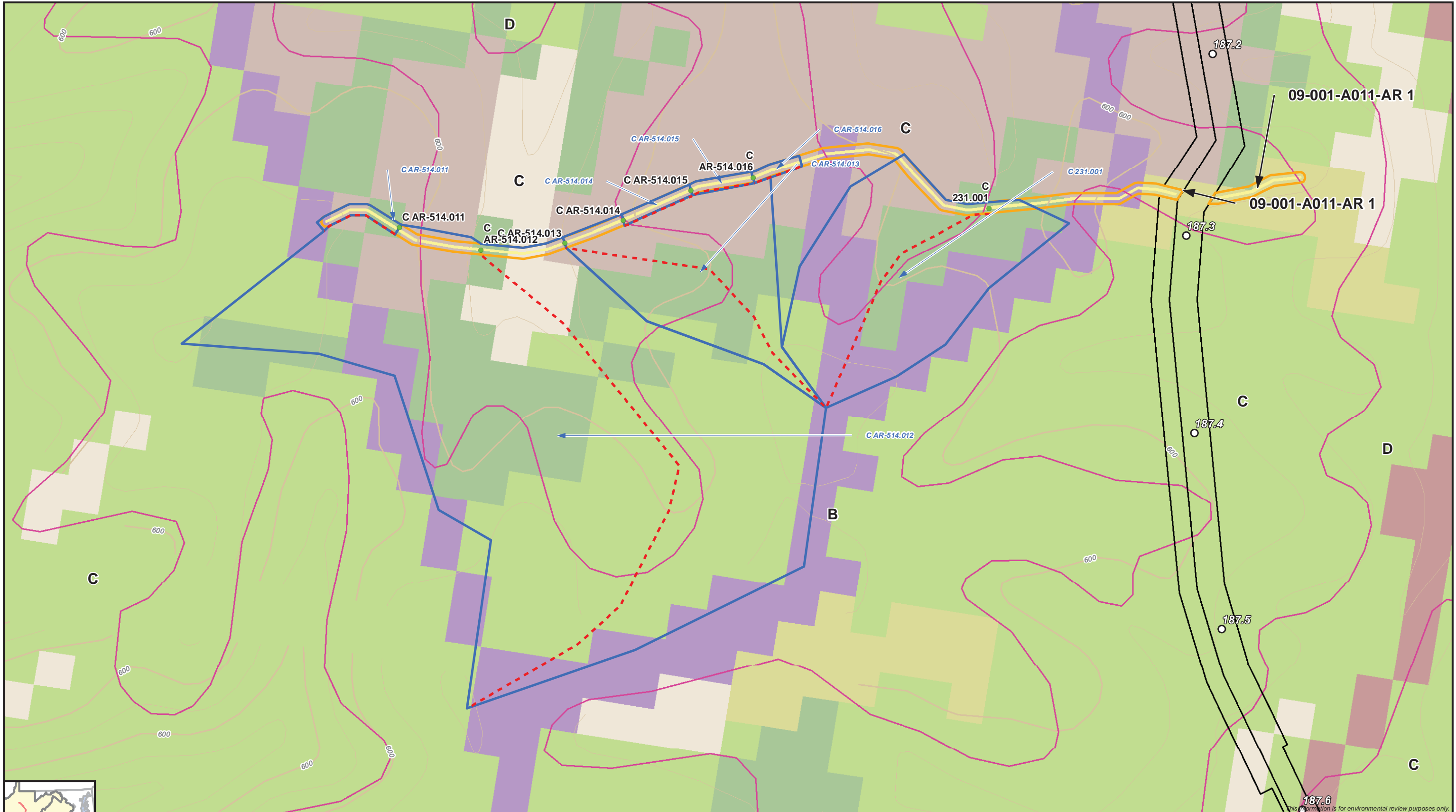
- ▭ Gravel
- ▭ Open Water
- ▭ Wetlands

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Barren Land
 - ▭ Developed, Open Space
 - ▭ Forest

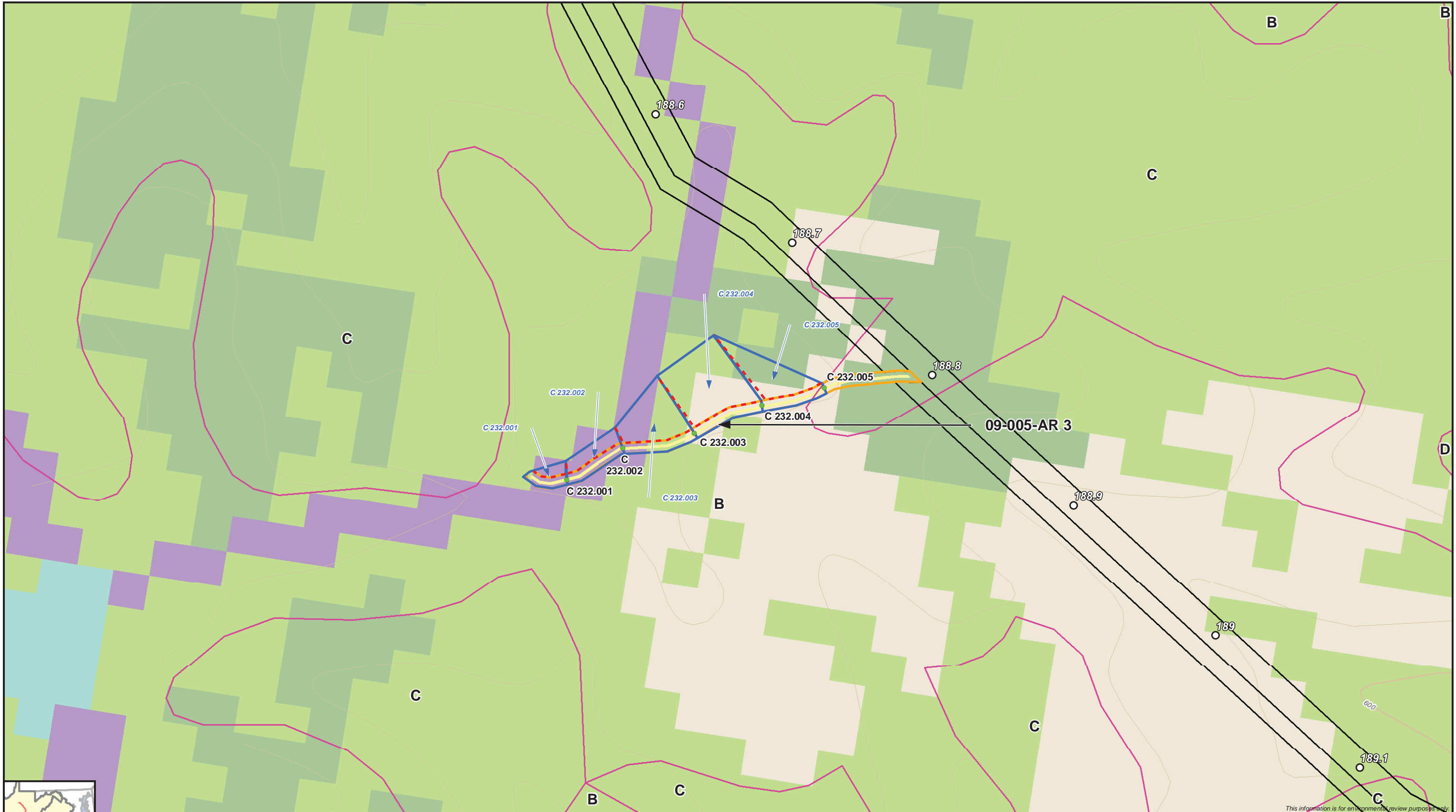
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

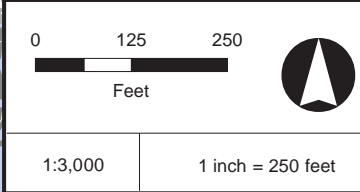
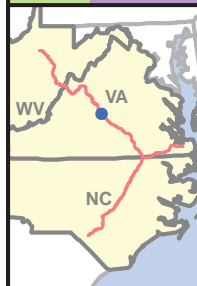


Virginia
Culvert and Ditch Analysis
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 Pre-Development Conditions





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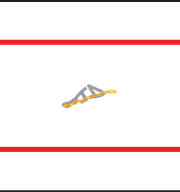
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- Hydrologic Soil Group

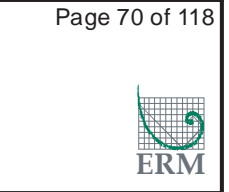
- Land Cover**
- Barren Land
 - Developed, Low Intensity
 - Developed, Open Space

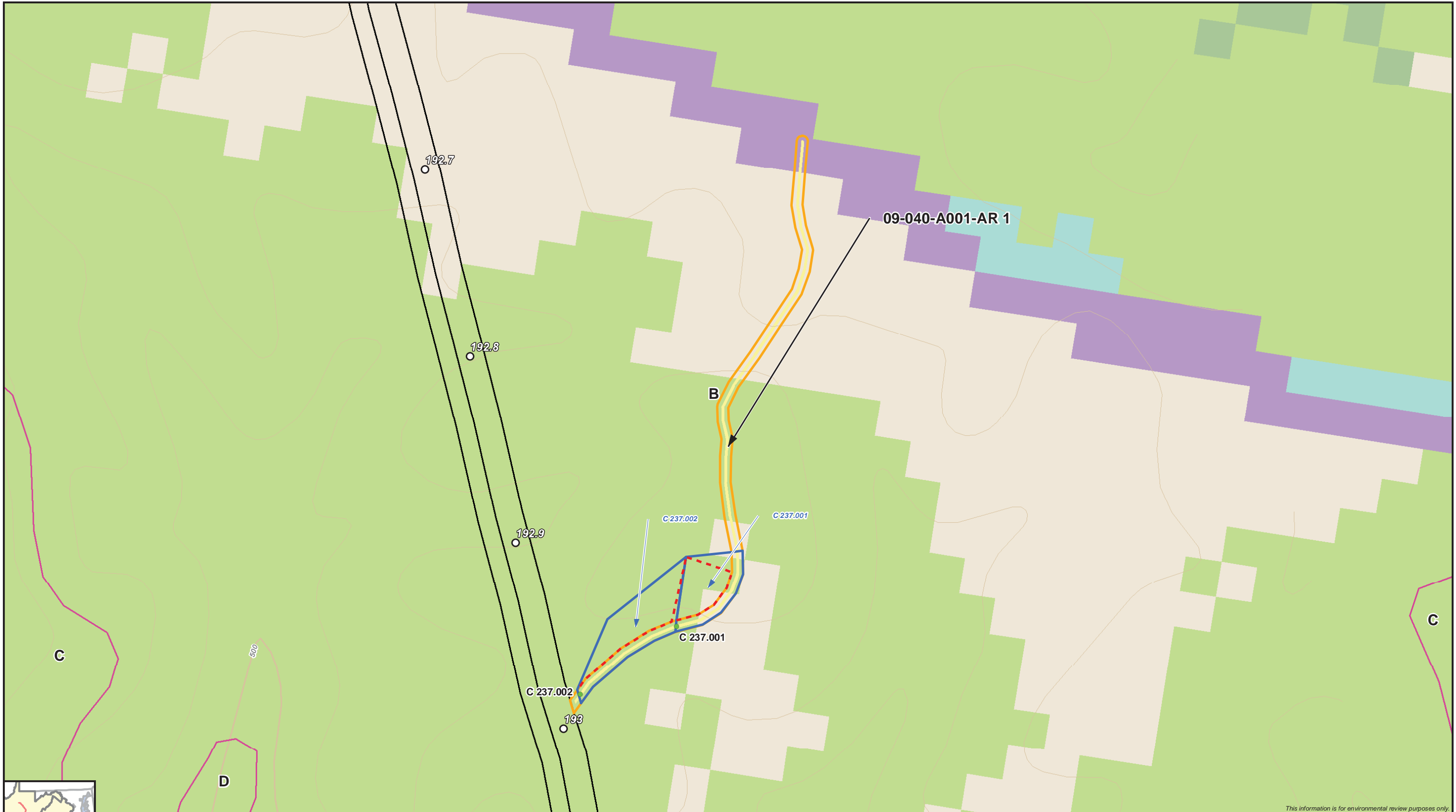
- Forest
- Grassland
- Gravel
- Shrub

Access Road Key →

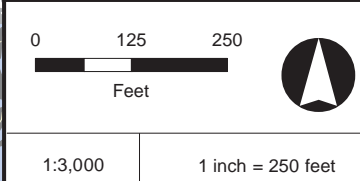
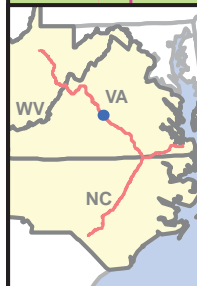


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





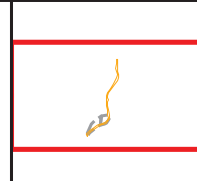
This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

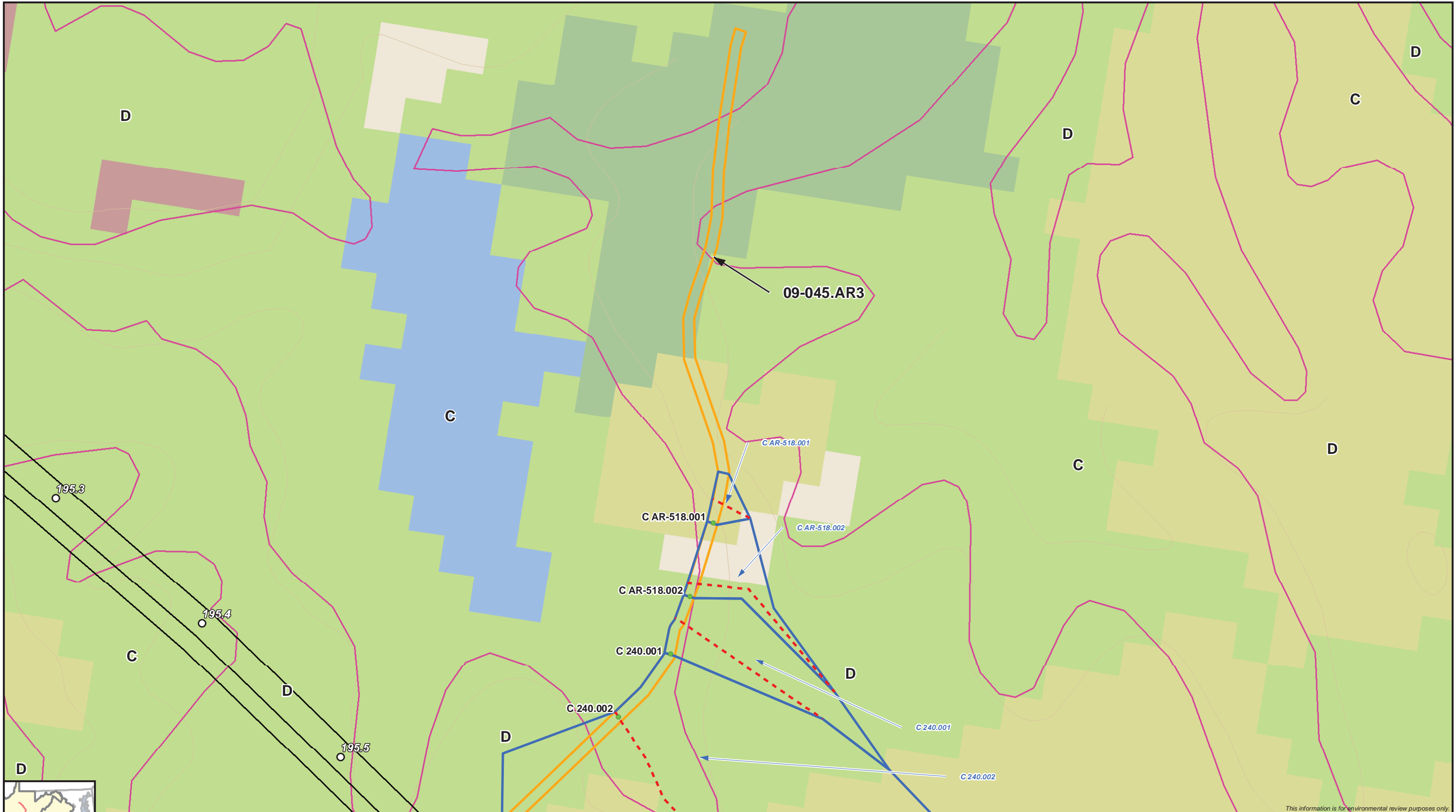
- - - Flow Path
 - Major Contour
 - Minor Contour
 - ▭ Hydrologic Soil Group
- Land Cover**
- ▭ Developed, Low Intensity
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Shrub

Access Road Key →

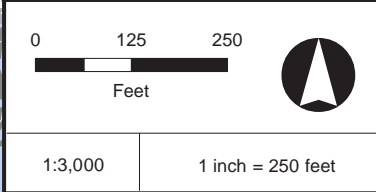


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



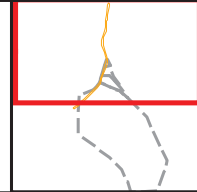


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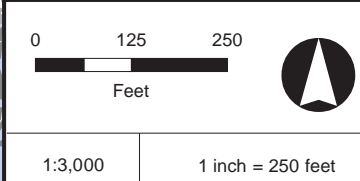
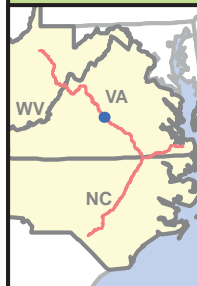
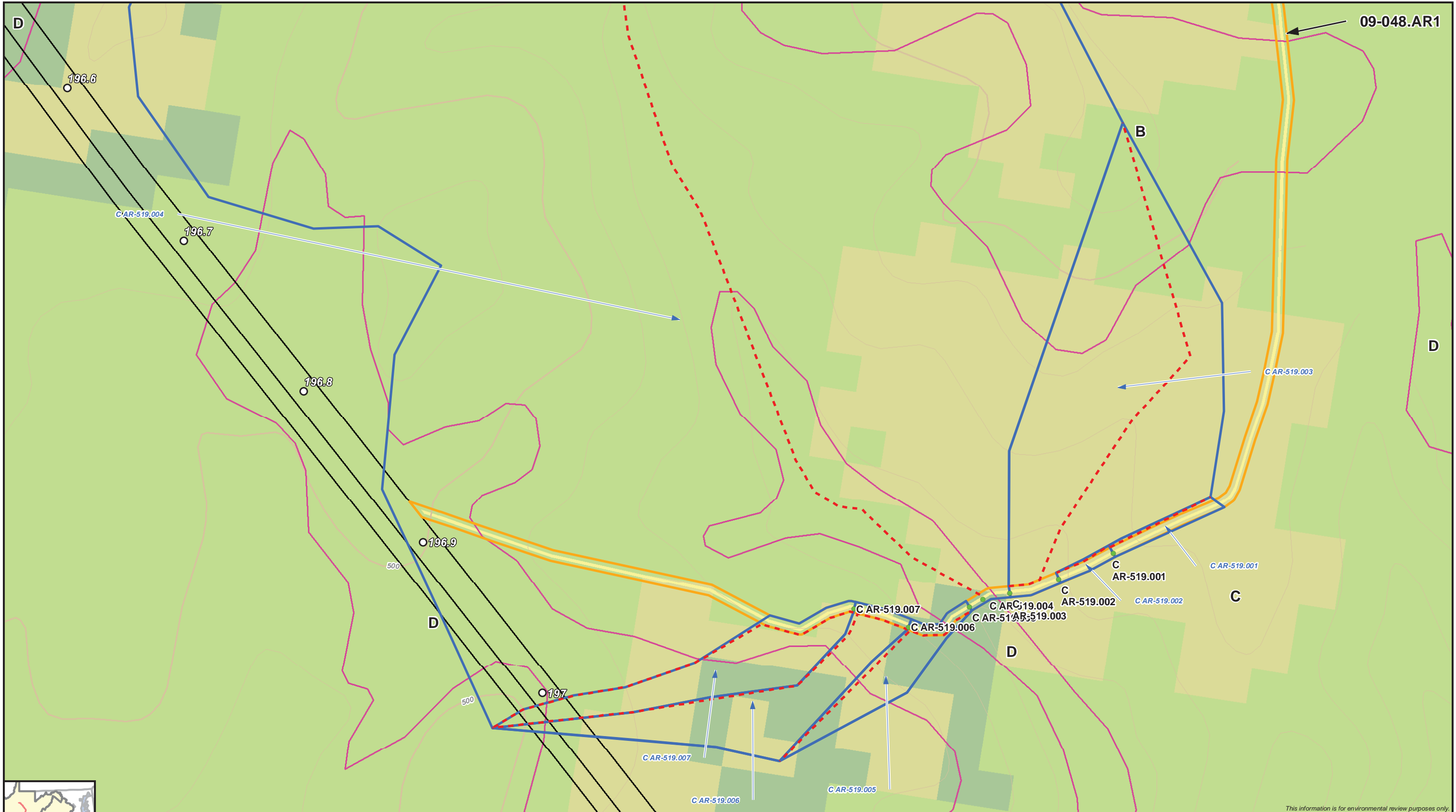
○ Milepost	--- Flow Path	Land Cover	■ Open Water
■ Permanent Access Road ROW	--- Minor Contour	■ Agriculture	■ Shrub
■ Pipeline ROW	■ Hydrologic Soil Group	■ Forest	■ Wetlands
■ Culvert Drainage Area		■ Grassland	
● Culvert			

Access Road Key →

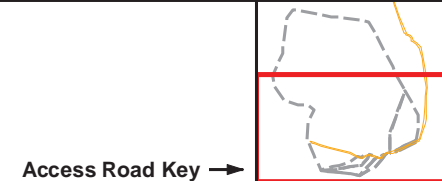


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





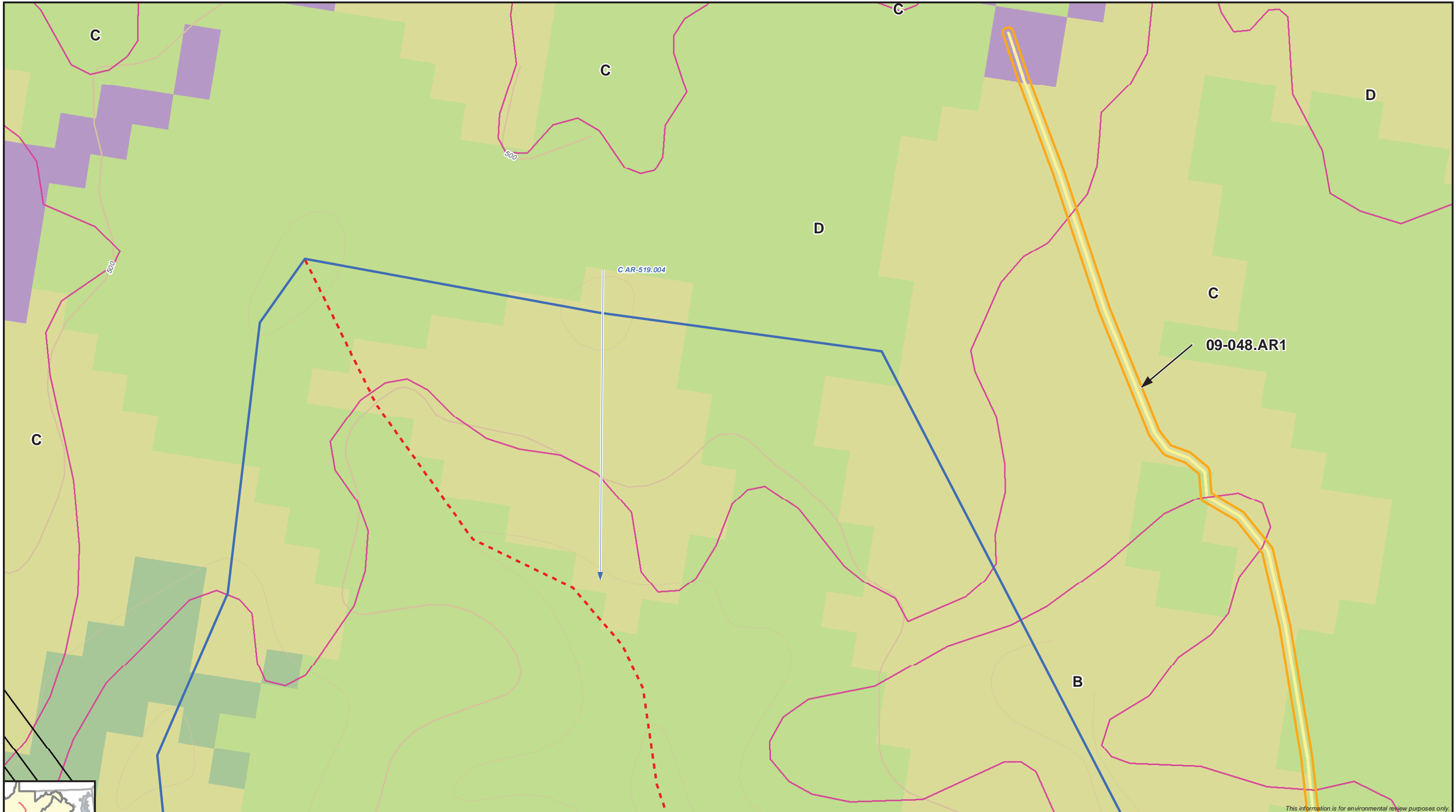
- | | | | |
|---------------------------|-----------------------|-------------------|-----------|
| ○ Milepost | --- Flow Path | Land Cover | Grassland |
| Permanent Access Road ROW | Major Contour | Agriculture | Gravel |
| Pipeline ROW | Minor Contour | Forest | |
| Culvert Drainage Area | Hydrologic Soil Group | | |
| ● Culvert | | | |



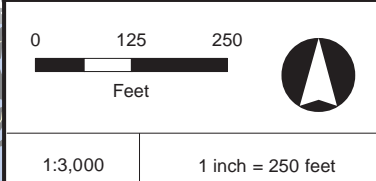
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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- Permanent Access Road ROW
- Pipeline ROW
- Culvert Drainage Area

- Flow Path
- Major Contour
- Minor Contour
- Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Open Space

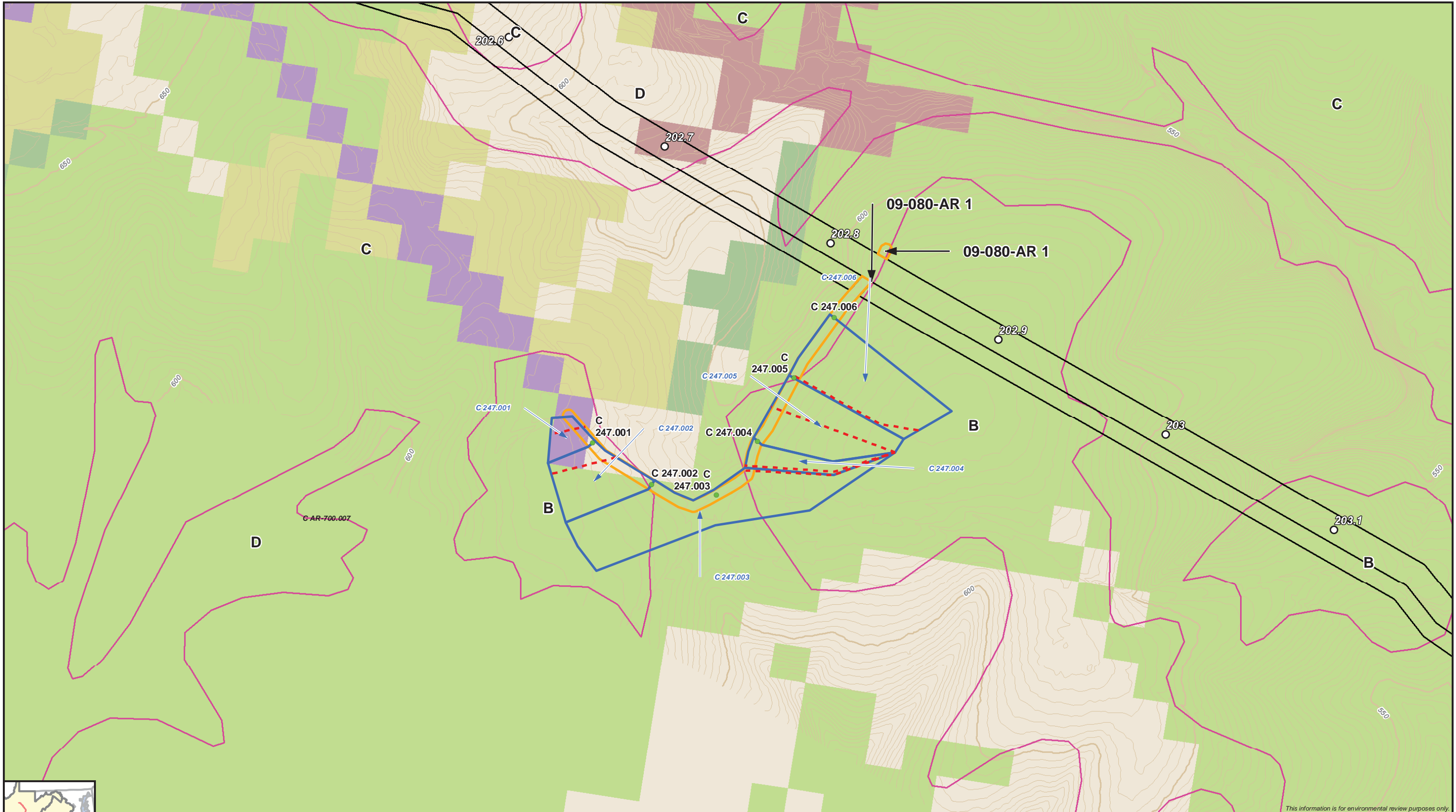
- Forest
- Grassland
- Gravel

Access Road Key →

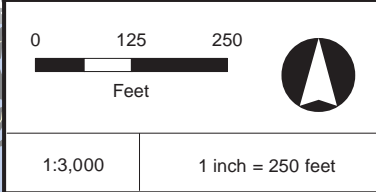


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - Ⓜ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland
 - ▭ Shrub
 - ▭ Wetlands

Access Road Key →

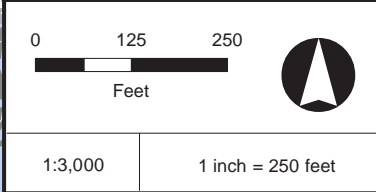


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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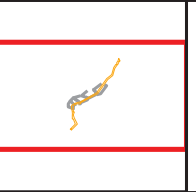
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Barren Land
 - Developed, Open Space
 - Forest

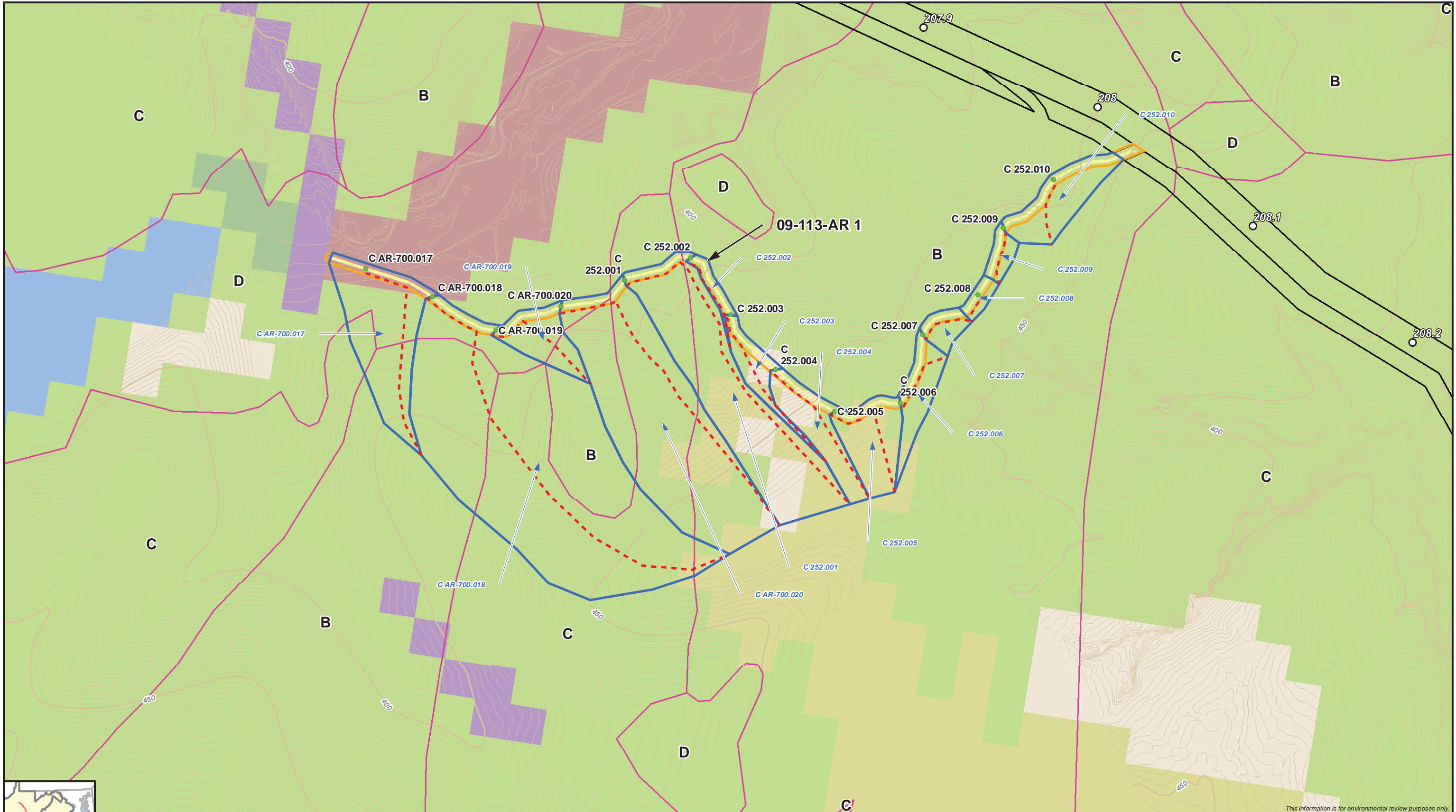
- Grassland
- Gravel
- Shrub
- Wetlands

Access Road Key →

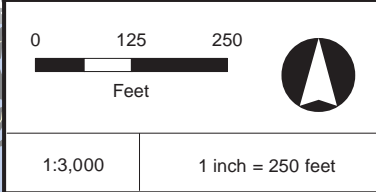


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest
 - Grassland
 - Gravel
 - Open Water
 - Shrub
 - Wetlands

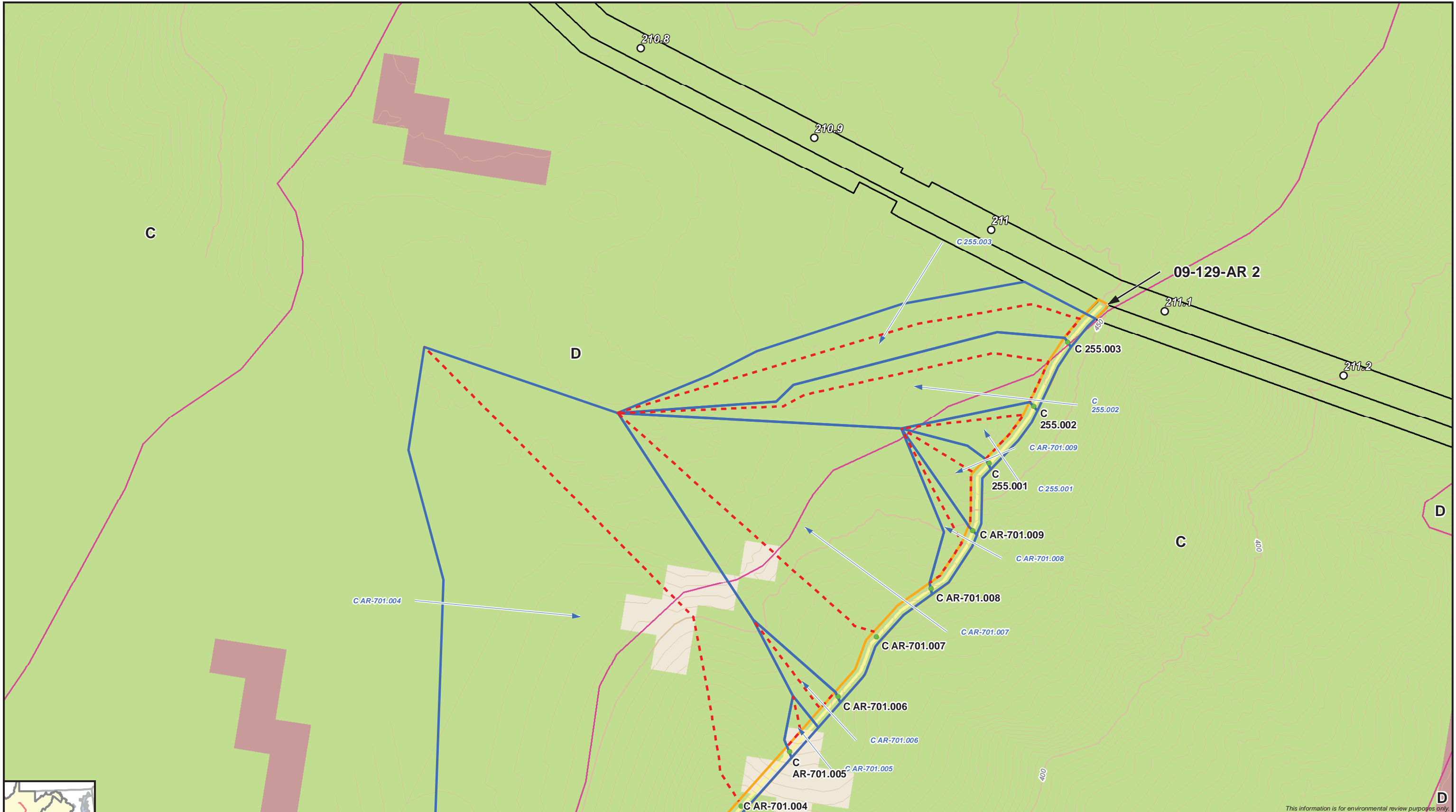
Access Road Key →



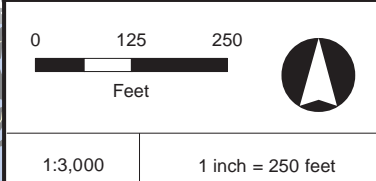
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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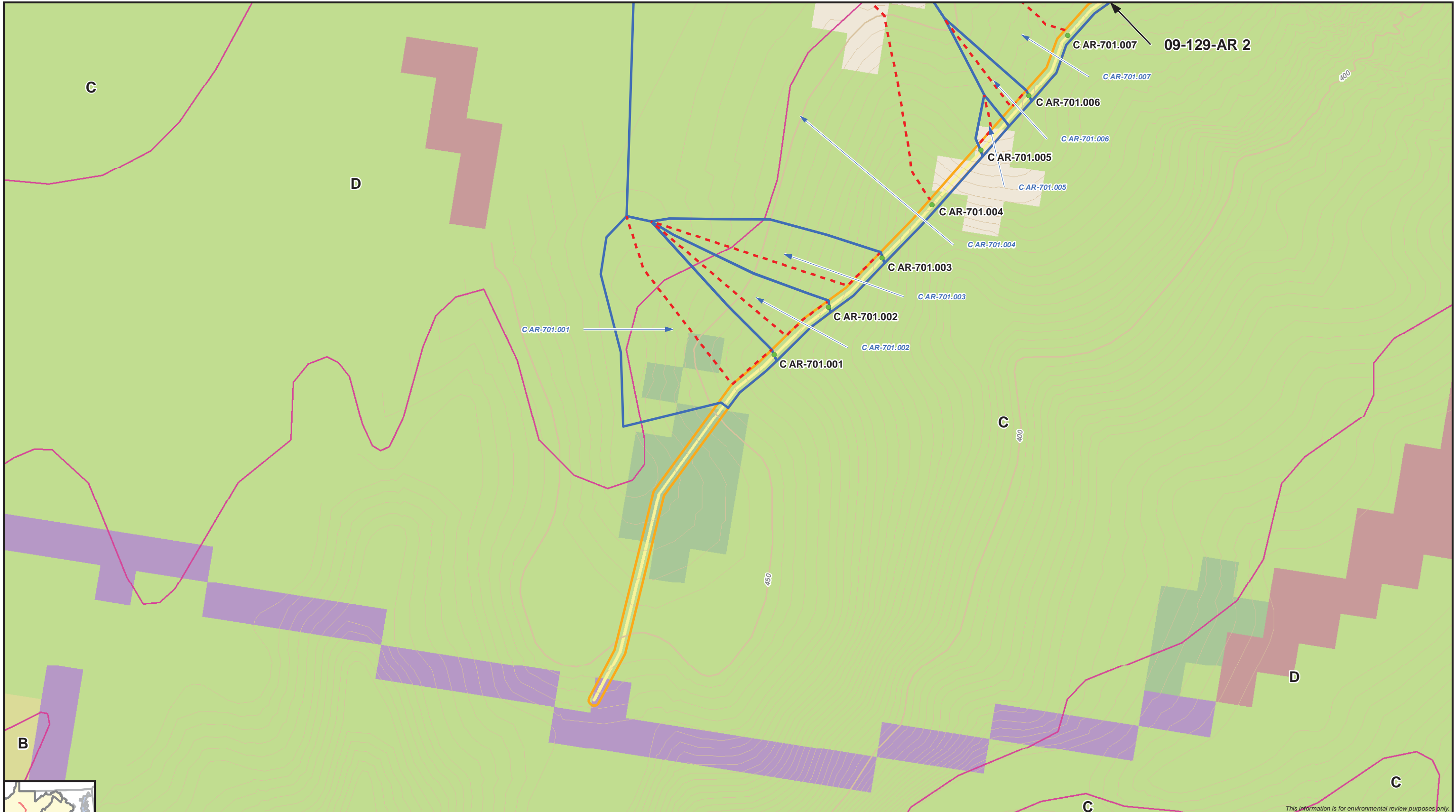


- | | | | |
|-----------------------------|-------------------------|-------------------|------------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Shrub |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Forest | ■ Wetlands |
| ▭ Pipeline ROW | — Minor Contour | ■ Gravel | |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

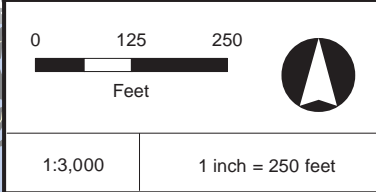


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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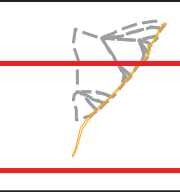


- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

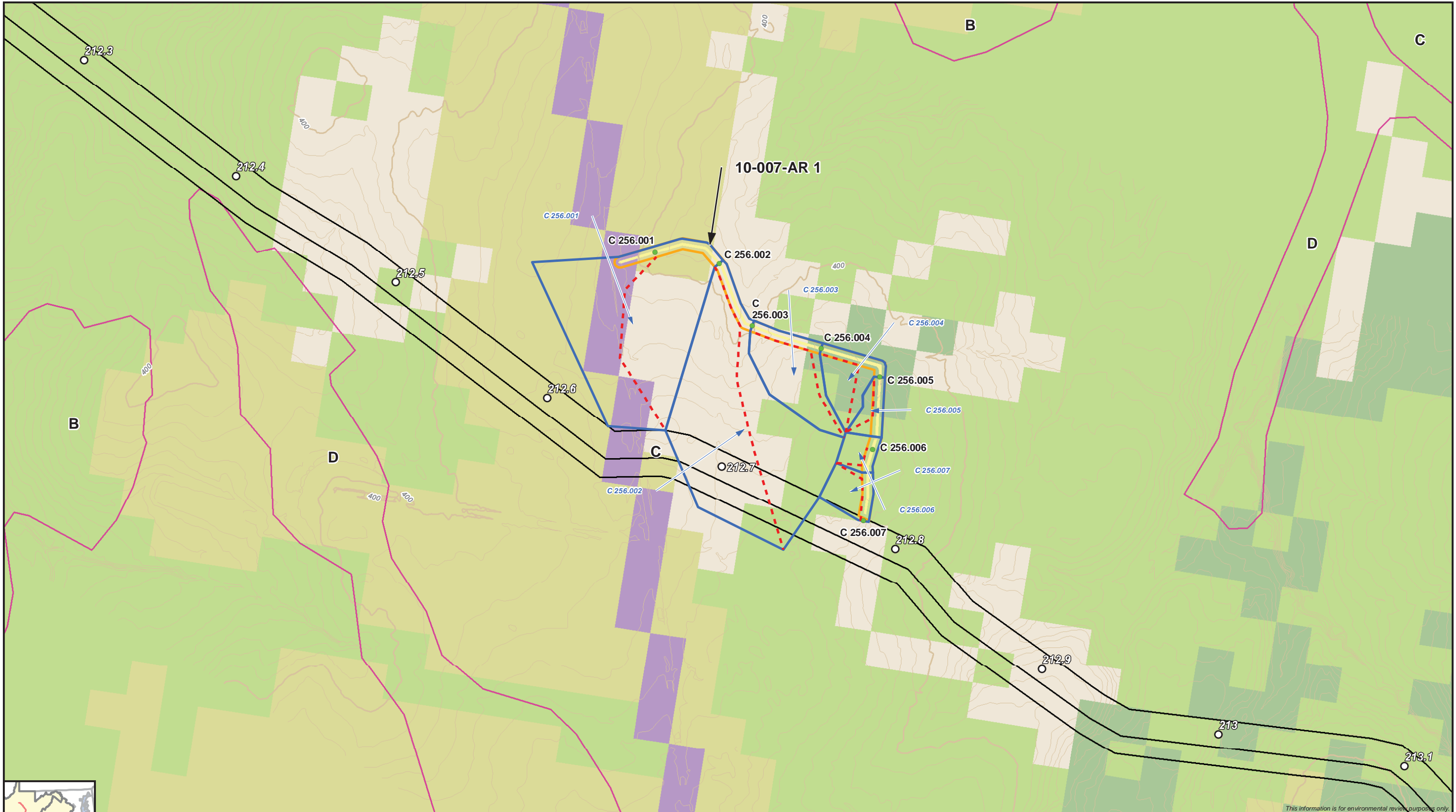
- Land Cover**
- Grassland
 - Gravel
 - Shrub
 - Wetlands
 - Agriculture
 - Developed, Open Space
 - Forest

Access Road Key →

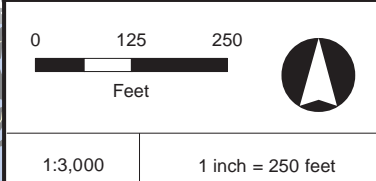


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

- ▭ Grassland
- ▭ Gravel
- ▭ Shrub

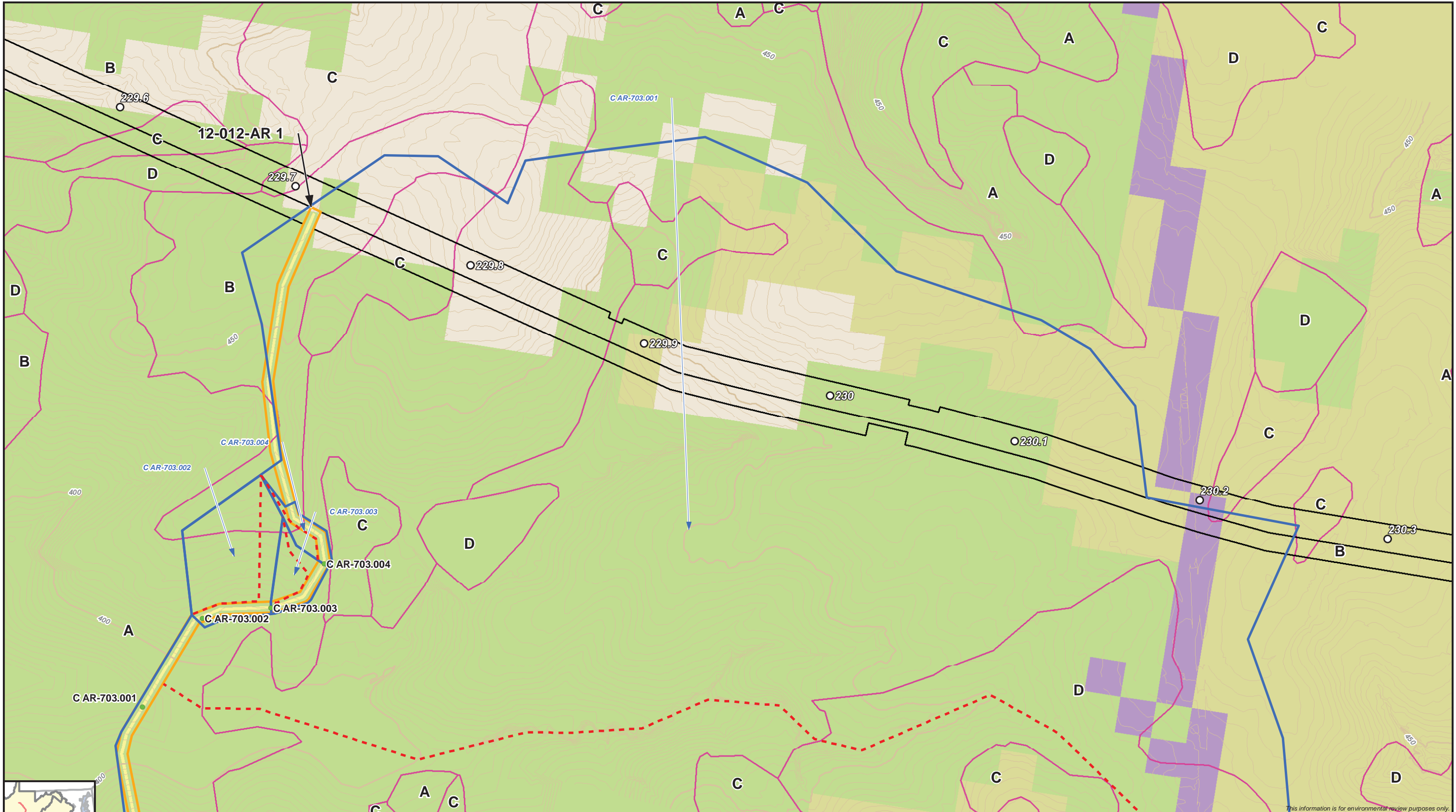
Access Road Key →



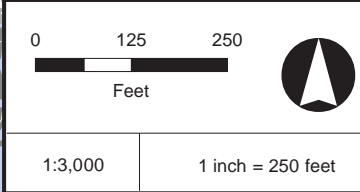
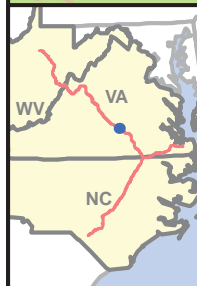
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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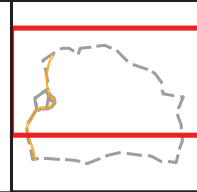


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

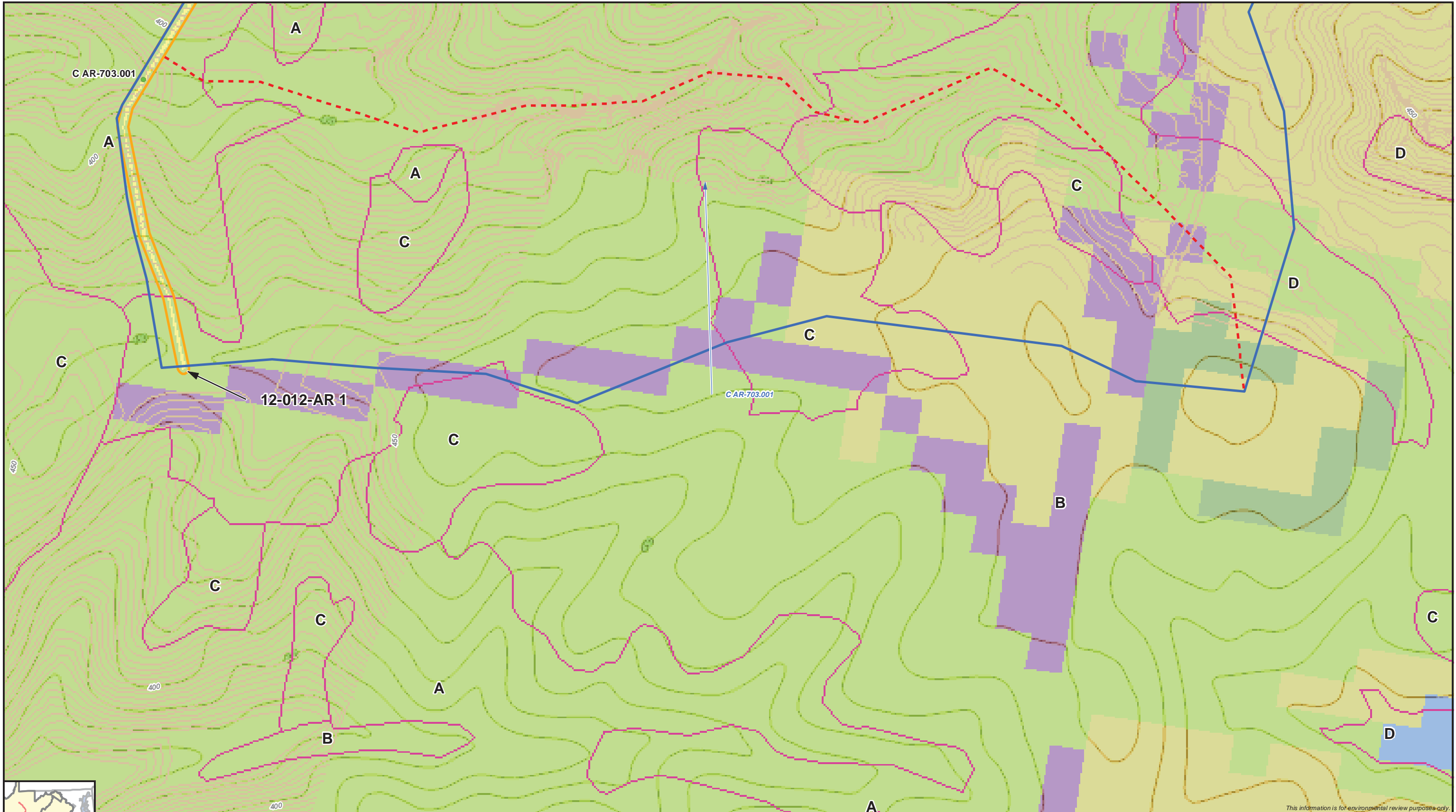
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →

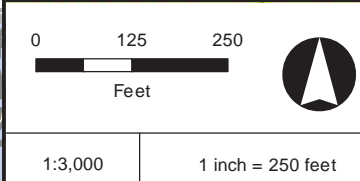


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

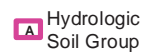




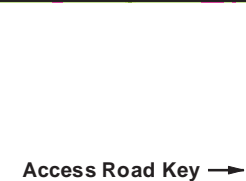
This information is for environmental review purposes only.



- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Land Cover**
- Grassland
- Gravel
- Open Water
- Agriculture
- Developed, Open Space
- Forest



Hydrologic Soil Group

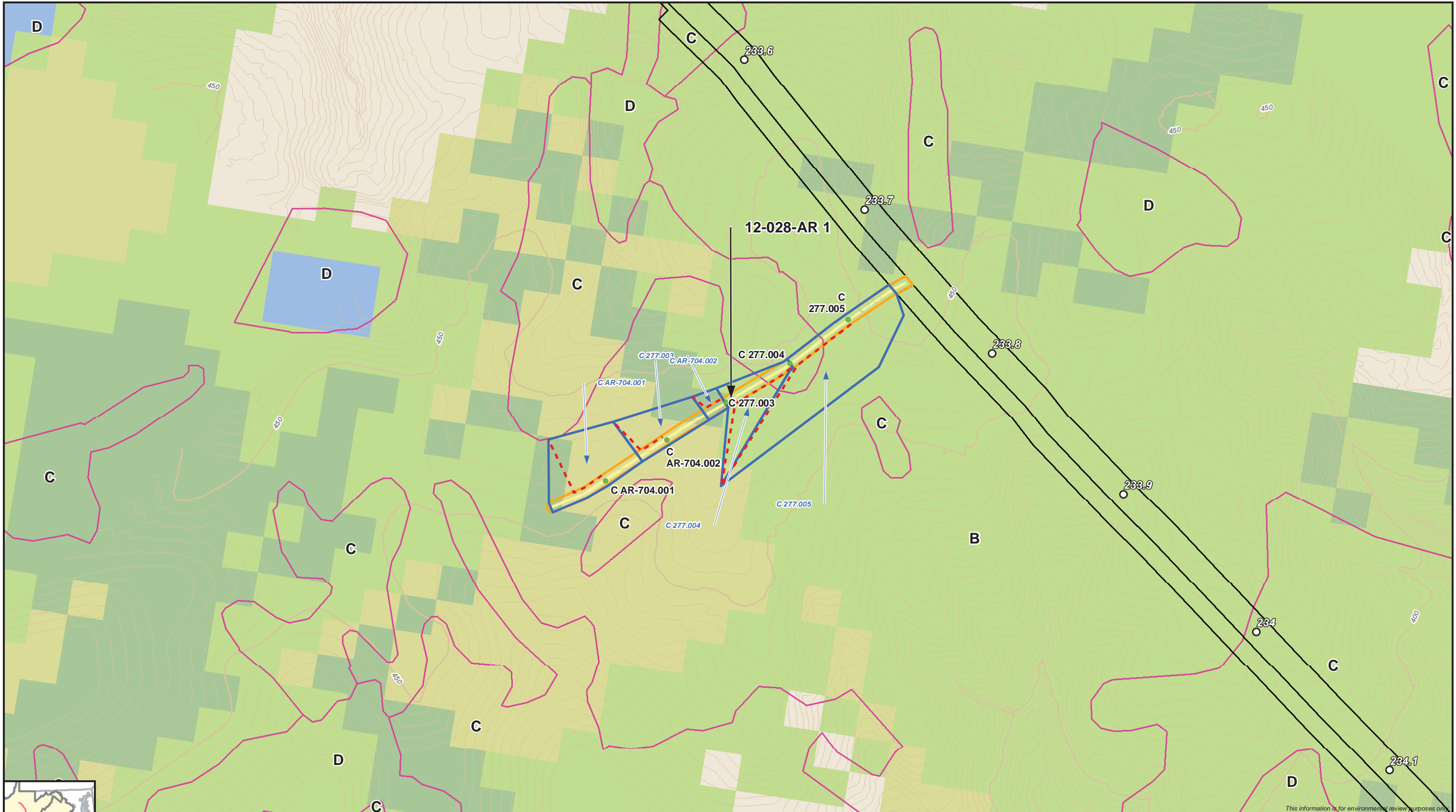


Access Road Key →

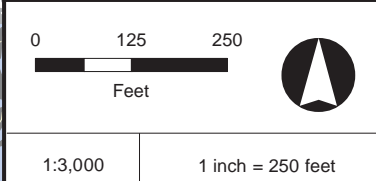
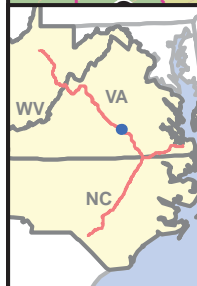


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





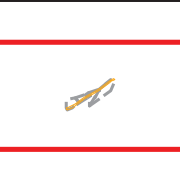
This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Open Water
 - ▭ Shrub

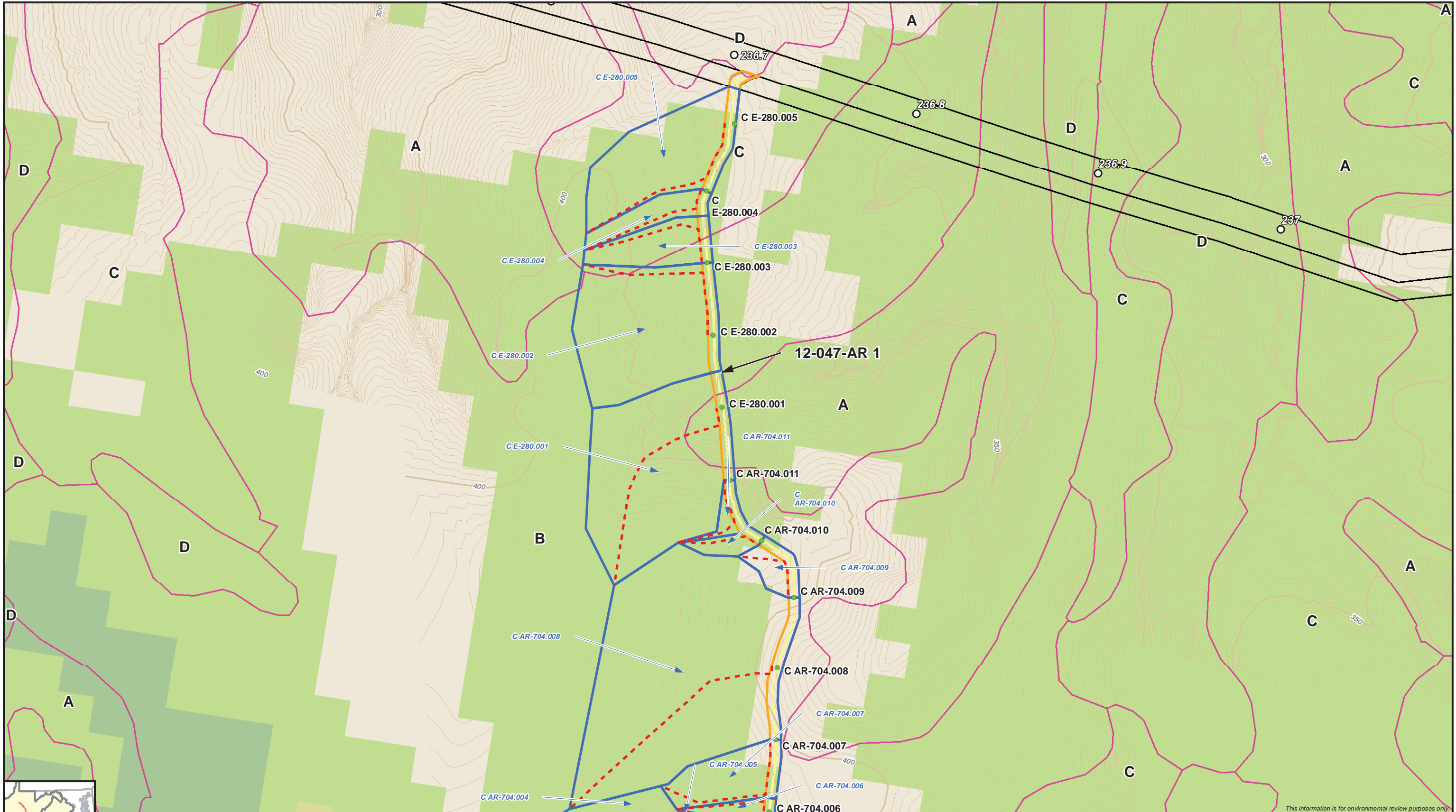
Access Road Key →



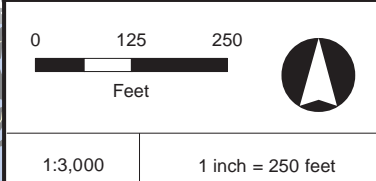
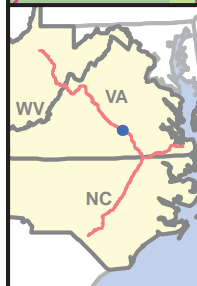
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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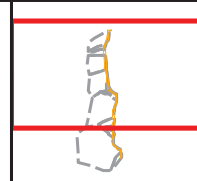
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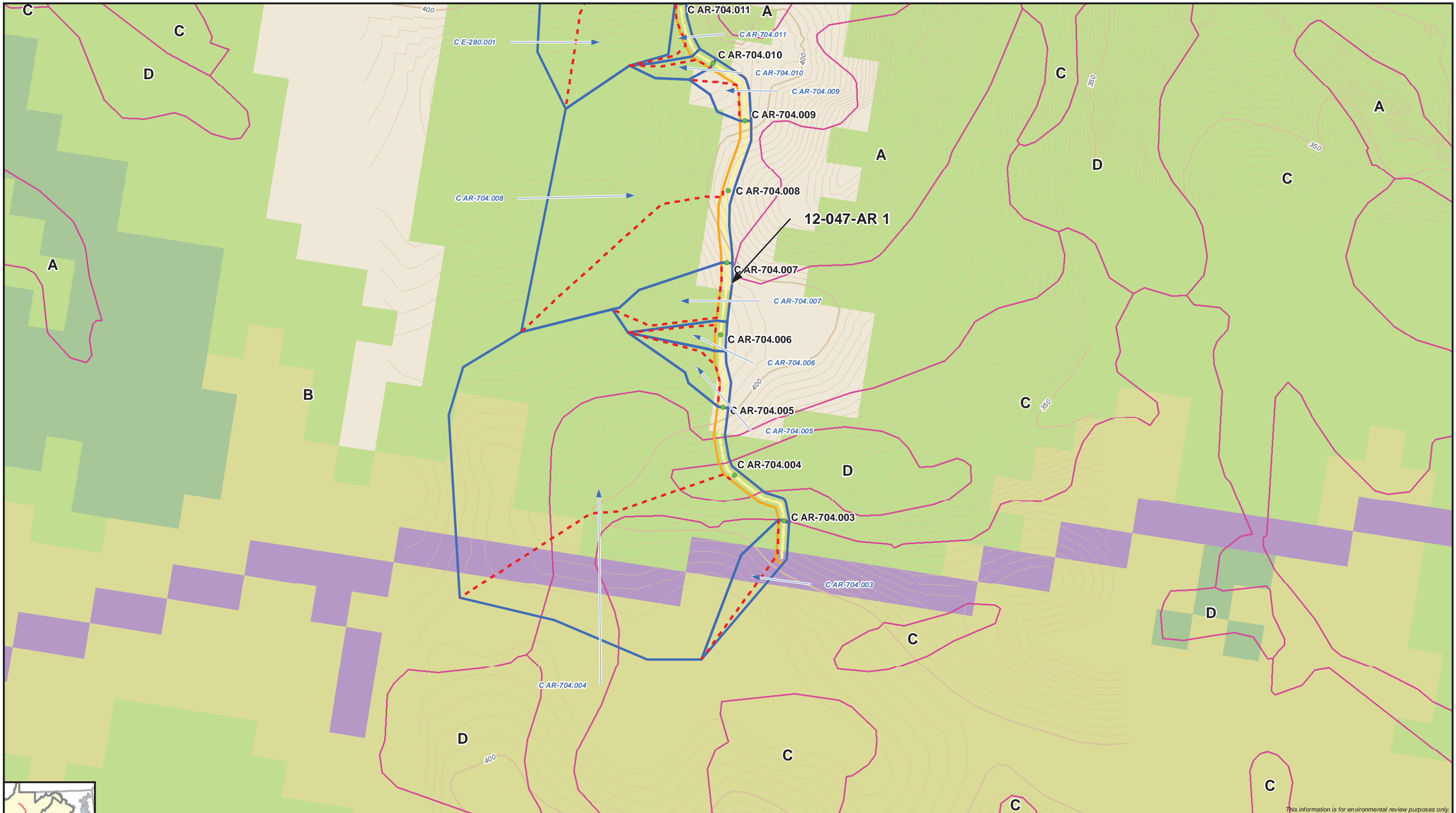
○ Milepost	--- Flow Path	Land Cover	Grassland
▭ Permanent Access Road ROW	— Major Contour	Agriculture	Gravel
▭ Pipeline ROW	— Minor Contour	Forest	Shrub
▭ Culvert Drainage Area	Ⓜ Hydrologic Soil Group		
● Culvert			



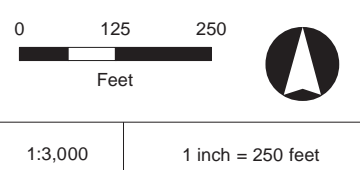
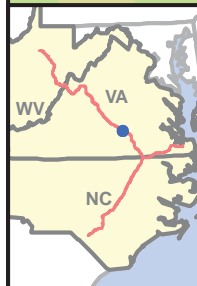
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Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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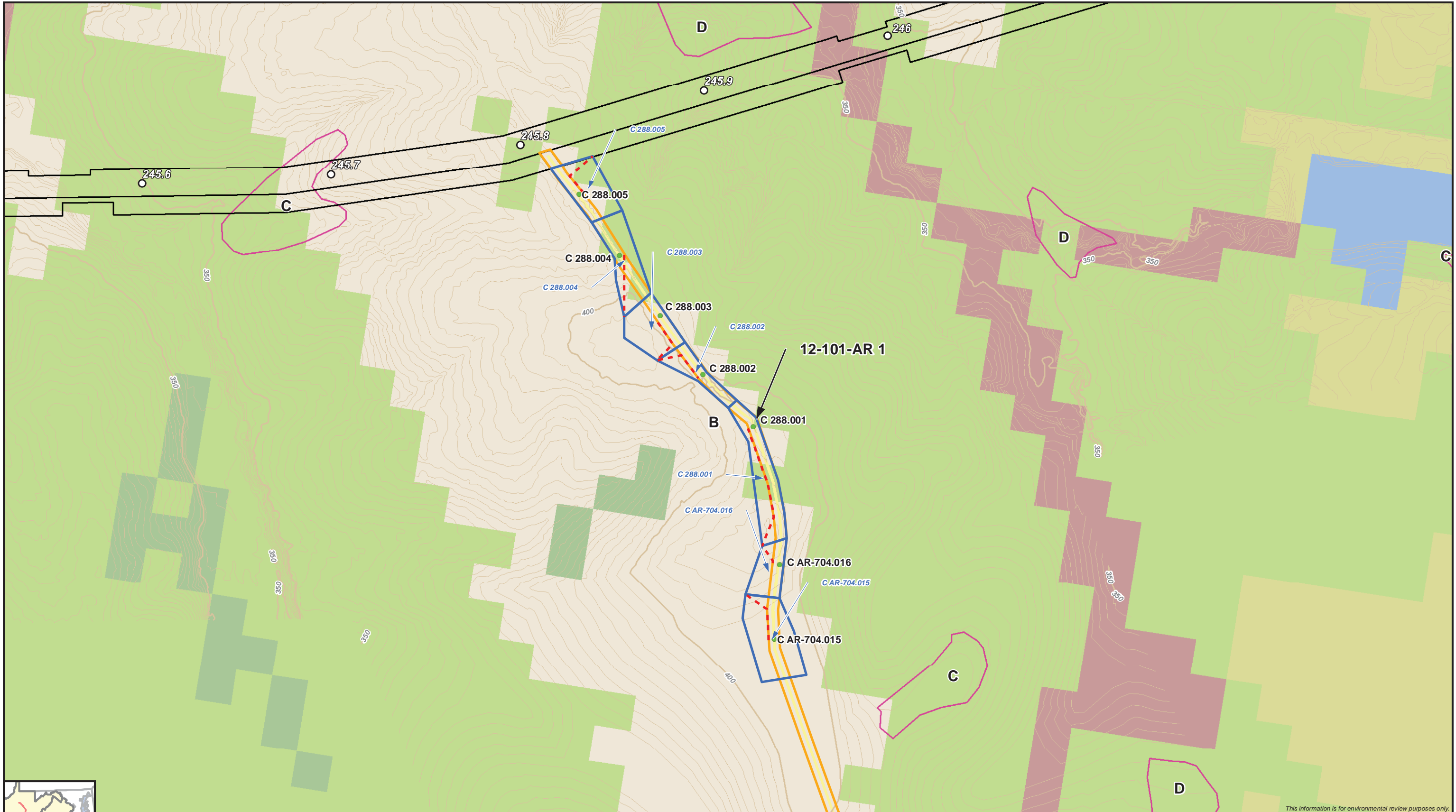


- | | | | |
|---------------------------|-----------------------|-----------------------|-----------|
| Permanent Access Road ROW | Flow Path | Land Cover | Grassland |
| Culvert Drainage Area | Major Contour | Agriculture | Gravel |
| Culvert | Minor Contour | Developed, Open Space | Shrub |
| | Hydrologic Soil Group | Forest | |

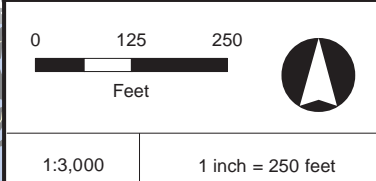
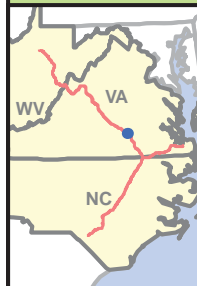


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



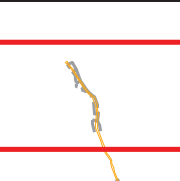


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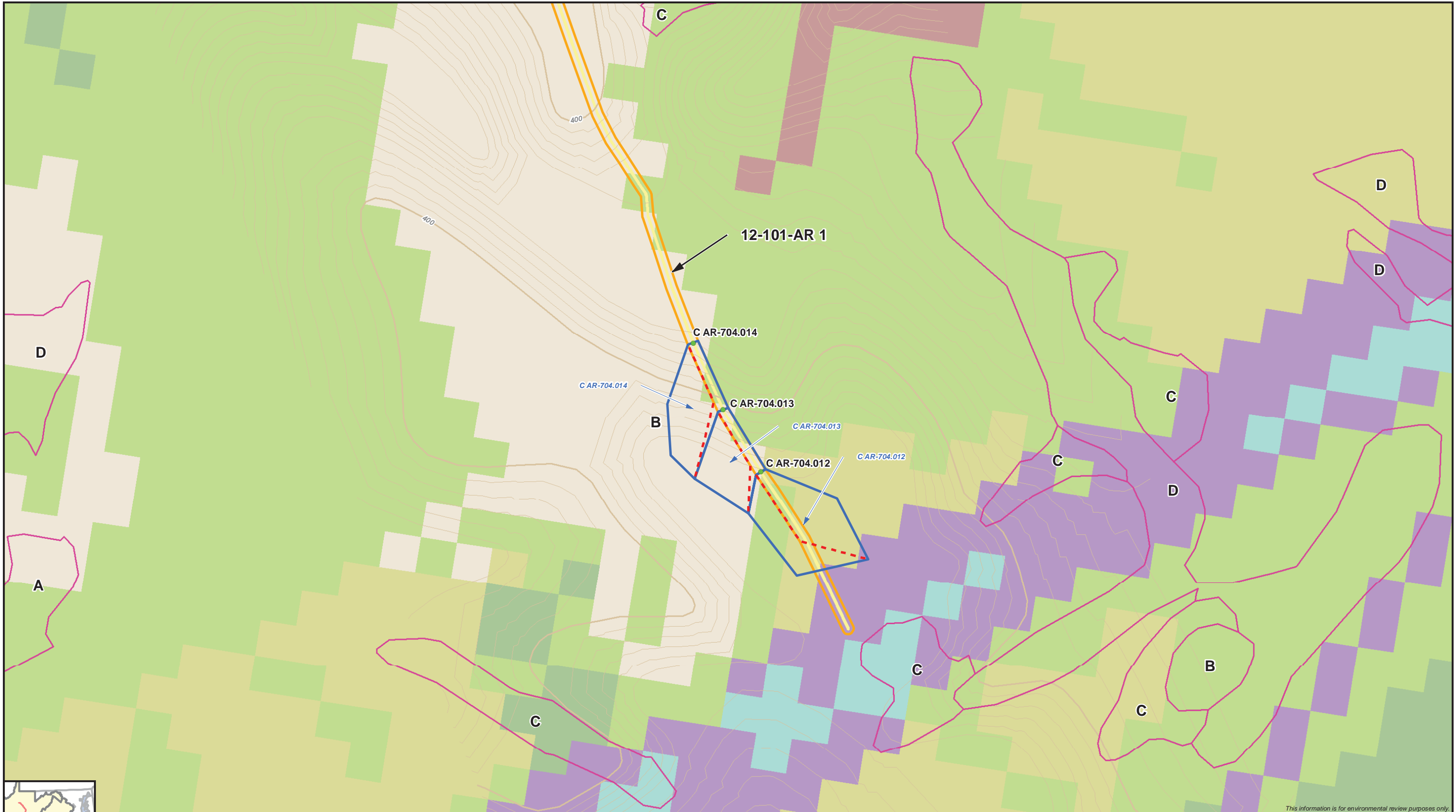
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|-----------------------------|---------------------------|-------------------|--------------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Agriculture | ■ Open Water |
| ▭ Pipeline ROW | — Minor Contour | ■ Forest | ■ Shrub |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group A | ■ Grassland | ■ Wetlands |
| ● Culvert | | | |

Access Road Key →

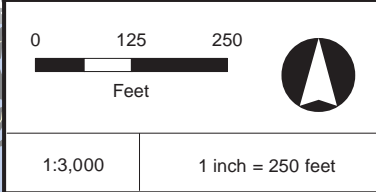
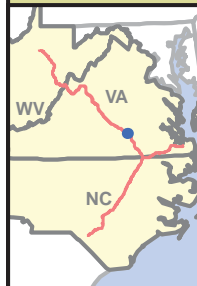


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





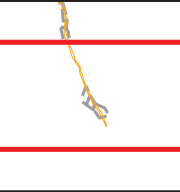
This information is for environmental review purposes only.



- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

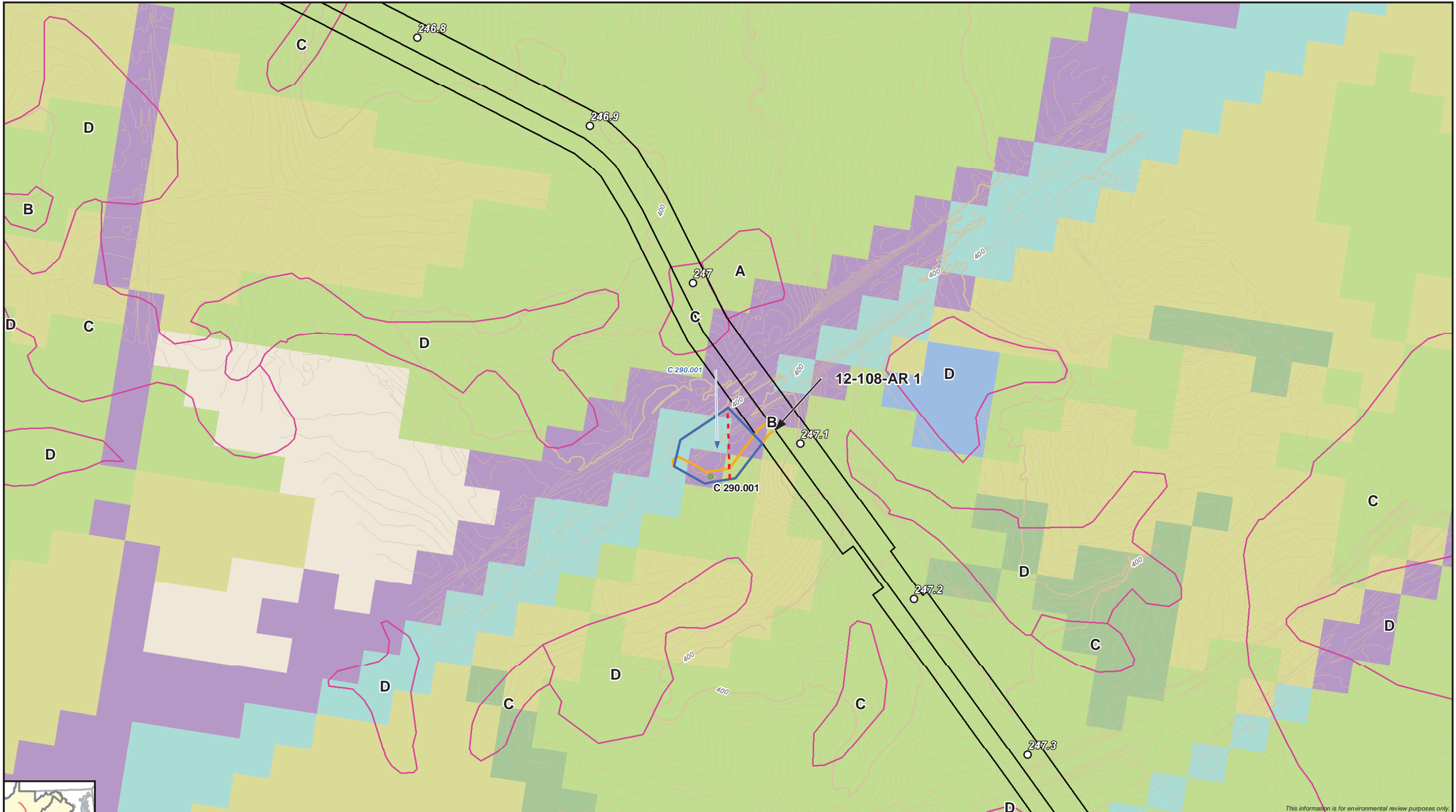
- - - Flow Path
 - Major Contour
 - Minor Contour
 - A Hydrologic Soil Group
- Land Cover**
- Grassland
 - Agriculture
 - Forest
 - Developed, Low Intensity
 - Developed, Open Space
 - Shrub
 - Wetlands
 - Gravel

Access Road Key →

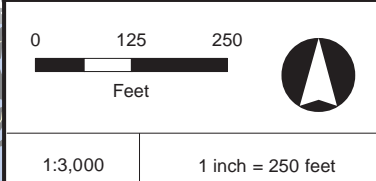
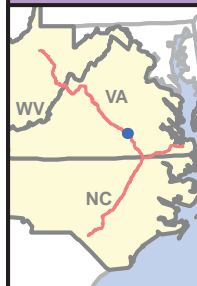


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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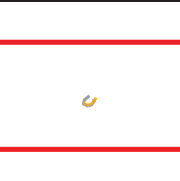


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Forest
 - Grassland
 - Open Water
 - Shrub
 - Agriculture
 - Developed, Low Intensity
 - Developed, Open Space

Access Road Key →

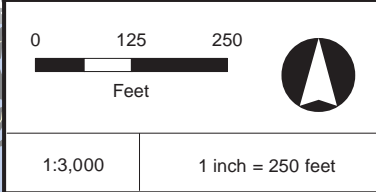
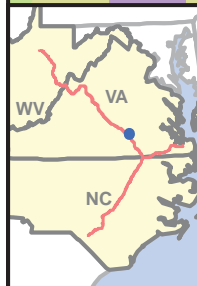


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





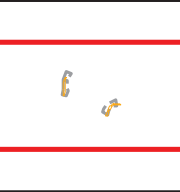
This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest

- Grassland
- Gravel
- Open Water
- Shrub

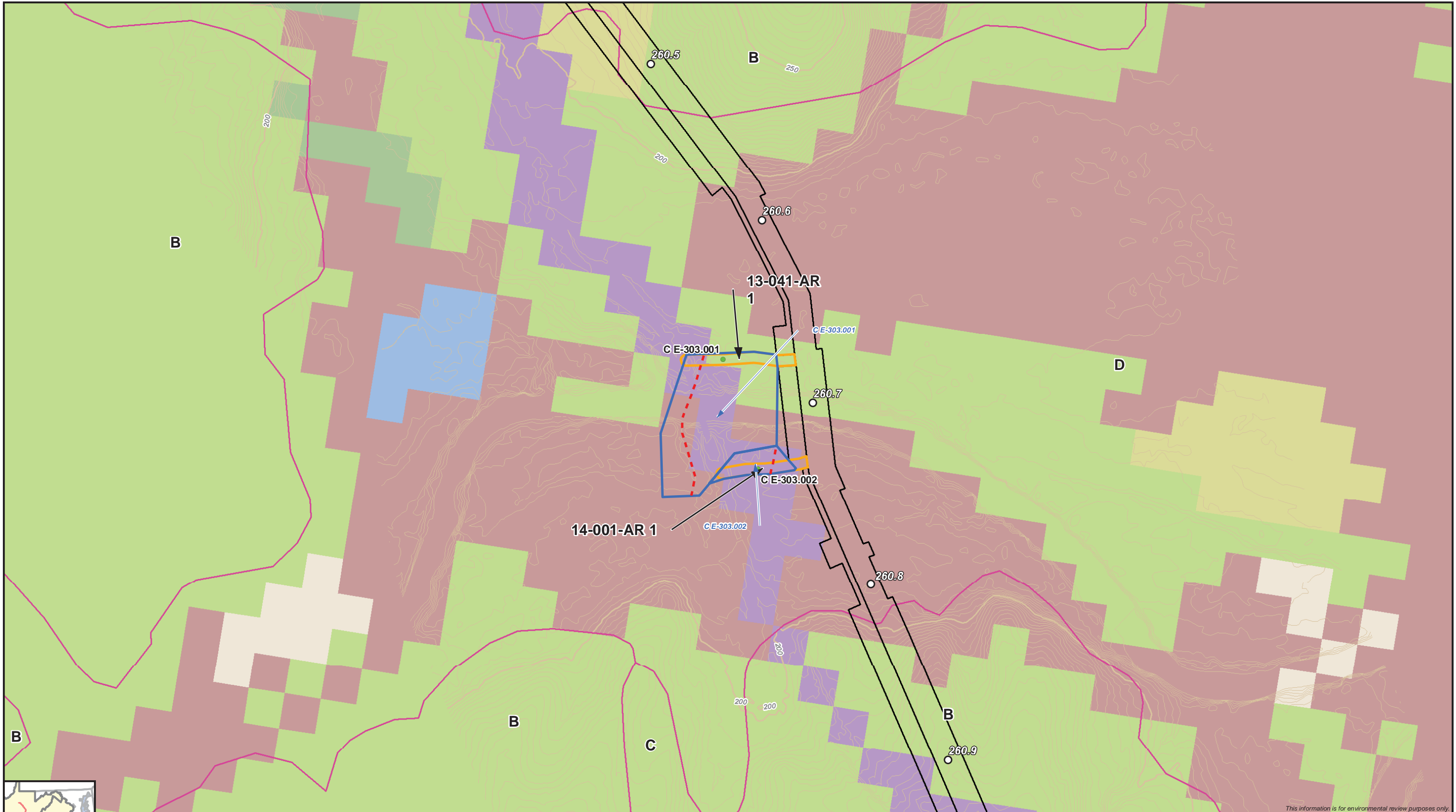


Access Road Key →

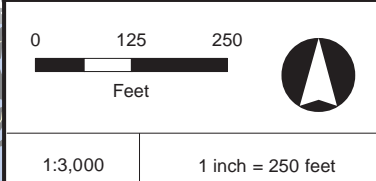
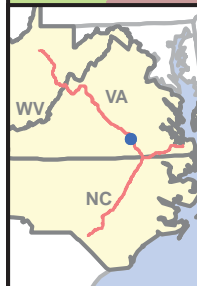


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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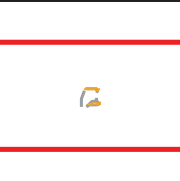
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

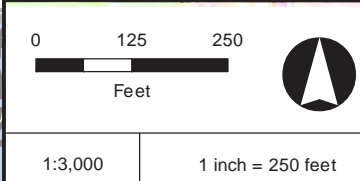
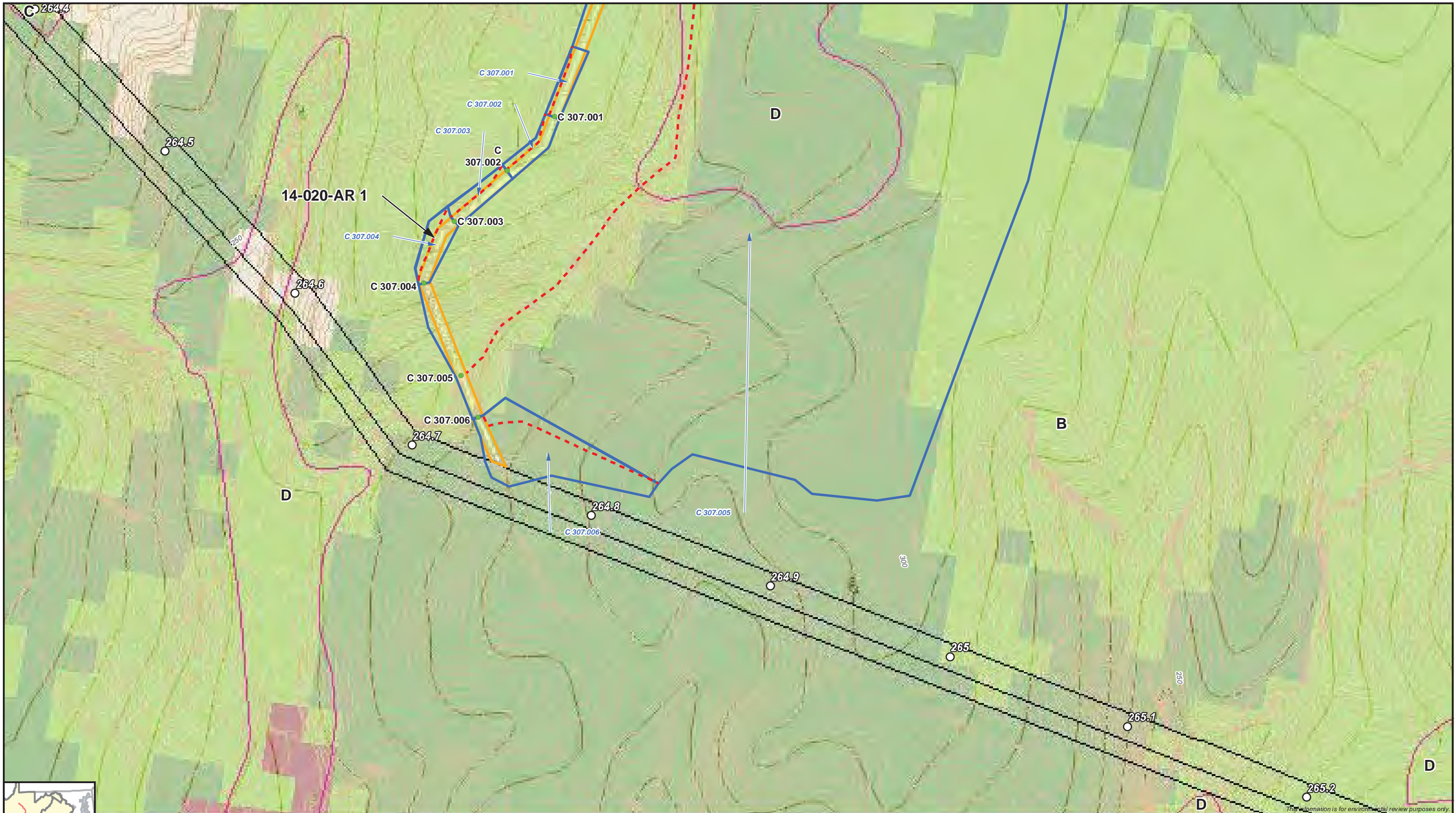
- ▭ Grassland
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

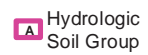


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



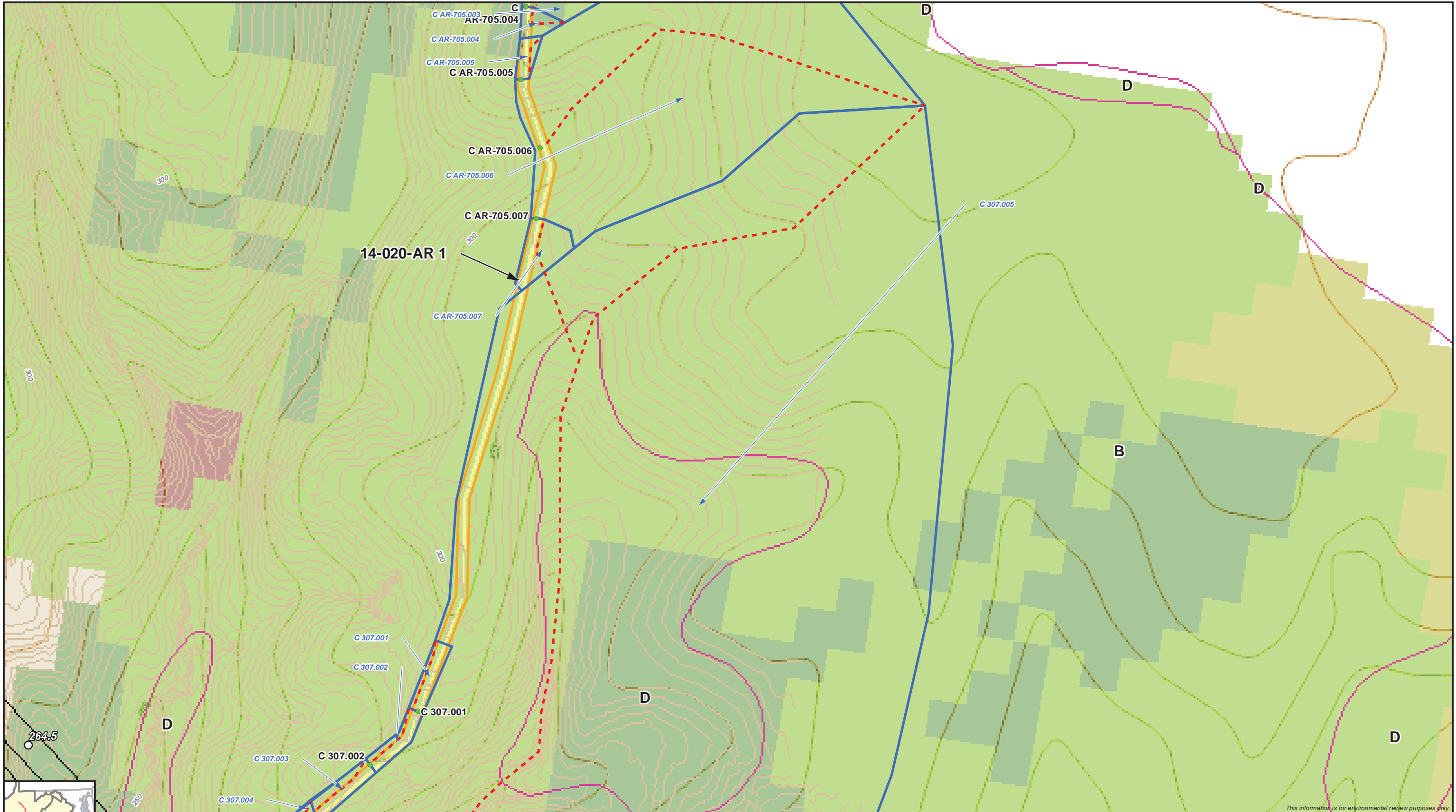


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Land Cover**
- Forest
- Grassland
- Gravel
- Shrub
- Wetlands

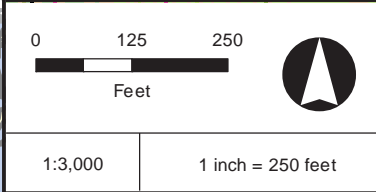
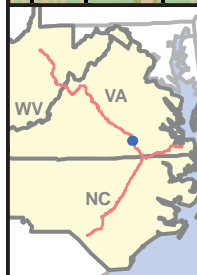


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

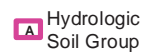




This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Land Cover**
- ▭ Agriculture
- ▭ Forest
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands



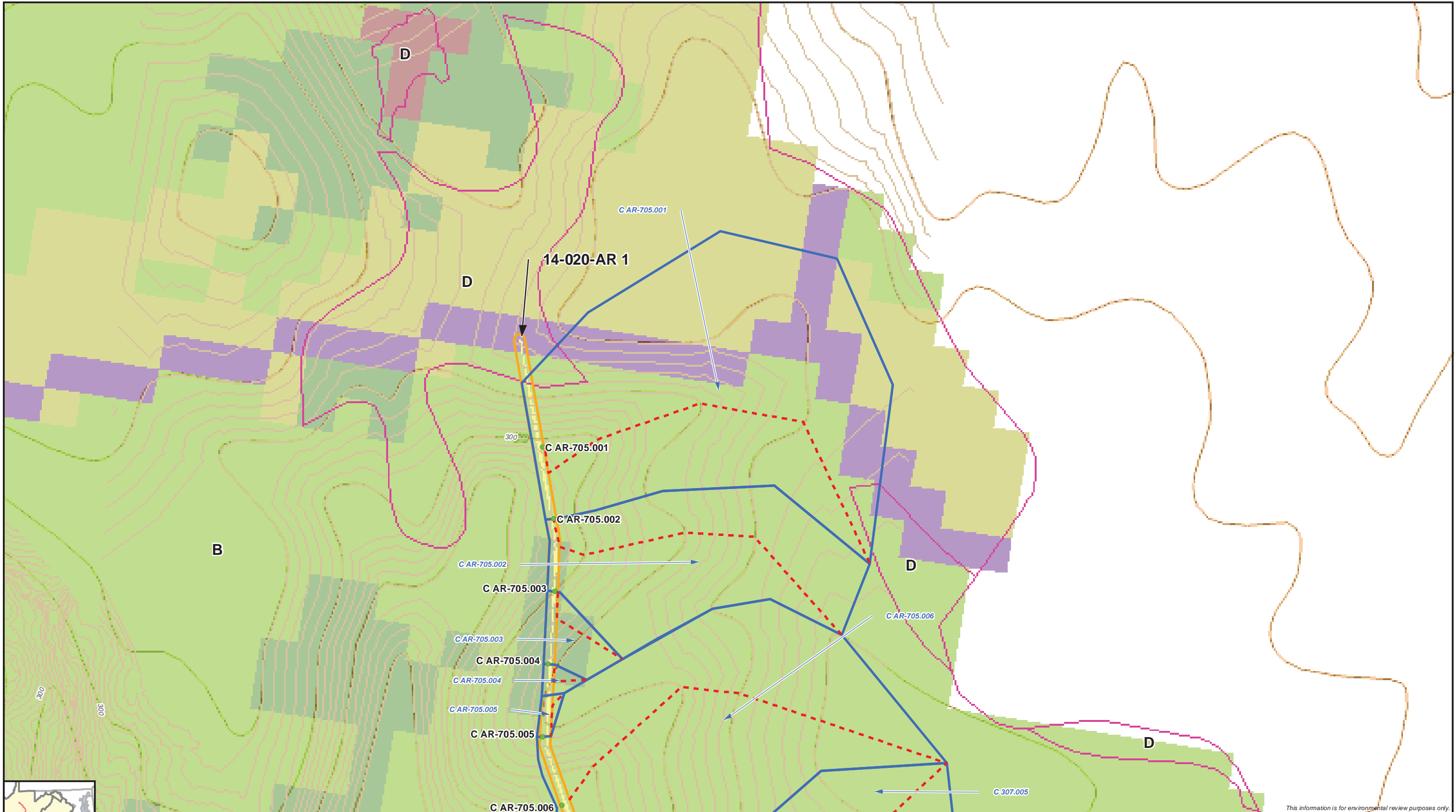
Hydrologic Soil Group

Access Road Key →

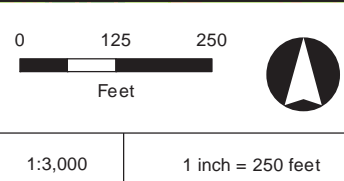


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

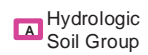




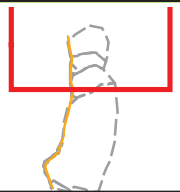
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- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert
- - - Flow Path
- Major Contour
- Minor Contour
- Land Cover**
- Grassland
- Gravel
- Wetlands
- Agriculture
- Developed, Open Space
- Forest



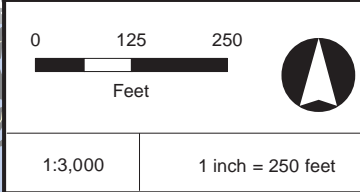
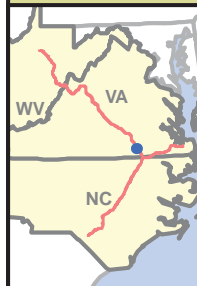
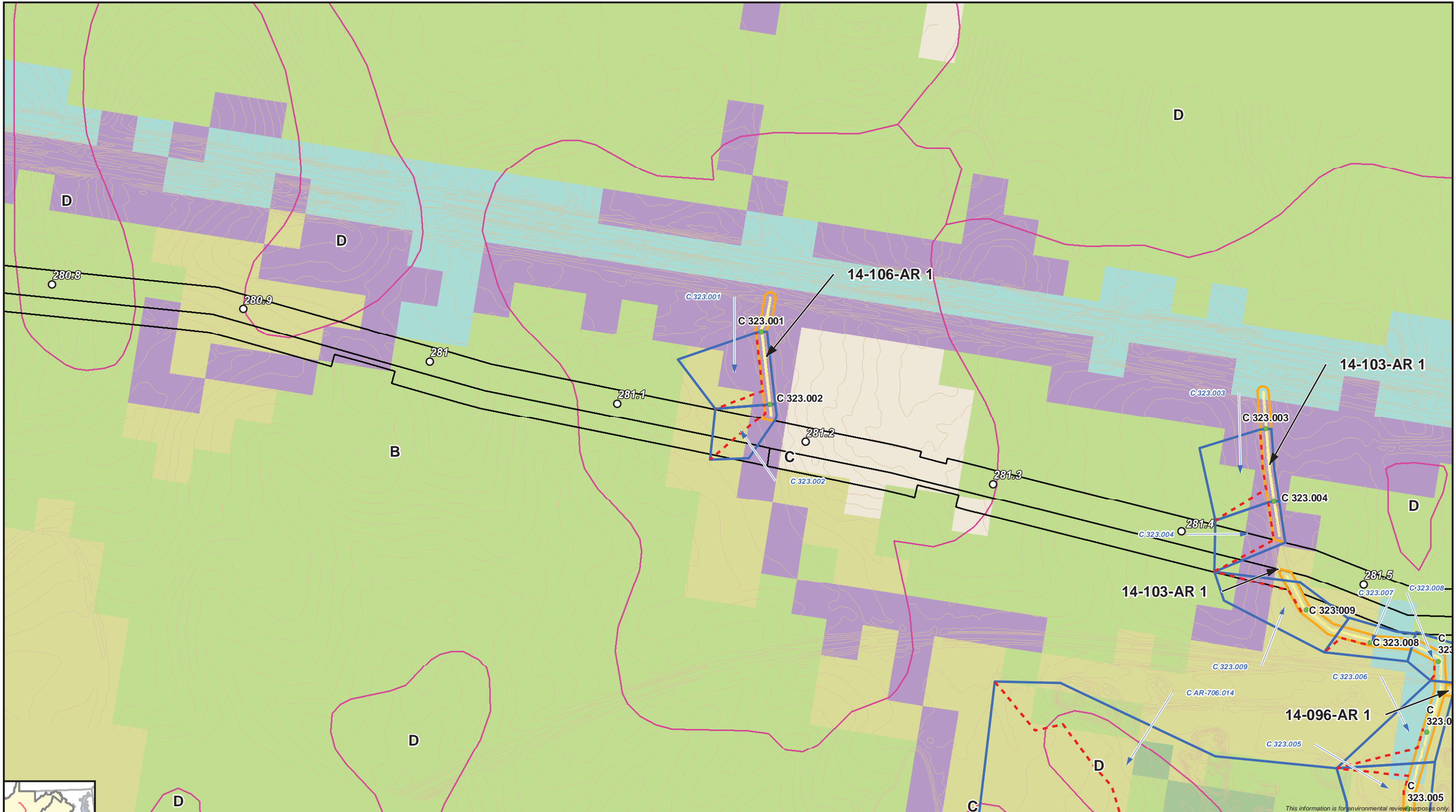
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- Forest
 - Grassland
 - Agriculture
 - Developed, Low Intensity
 - Developed, Open Space
 - Gravel
 - Shrub

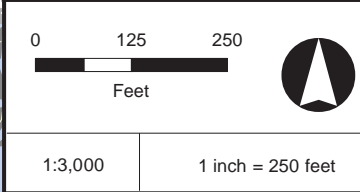
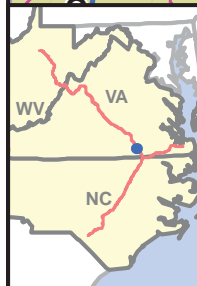
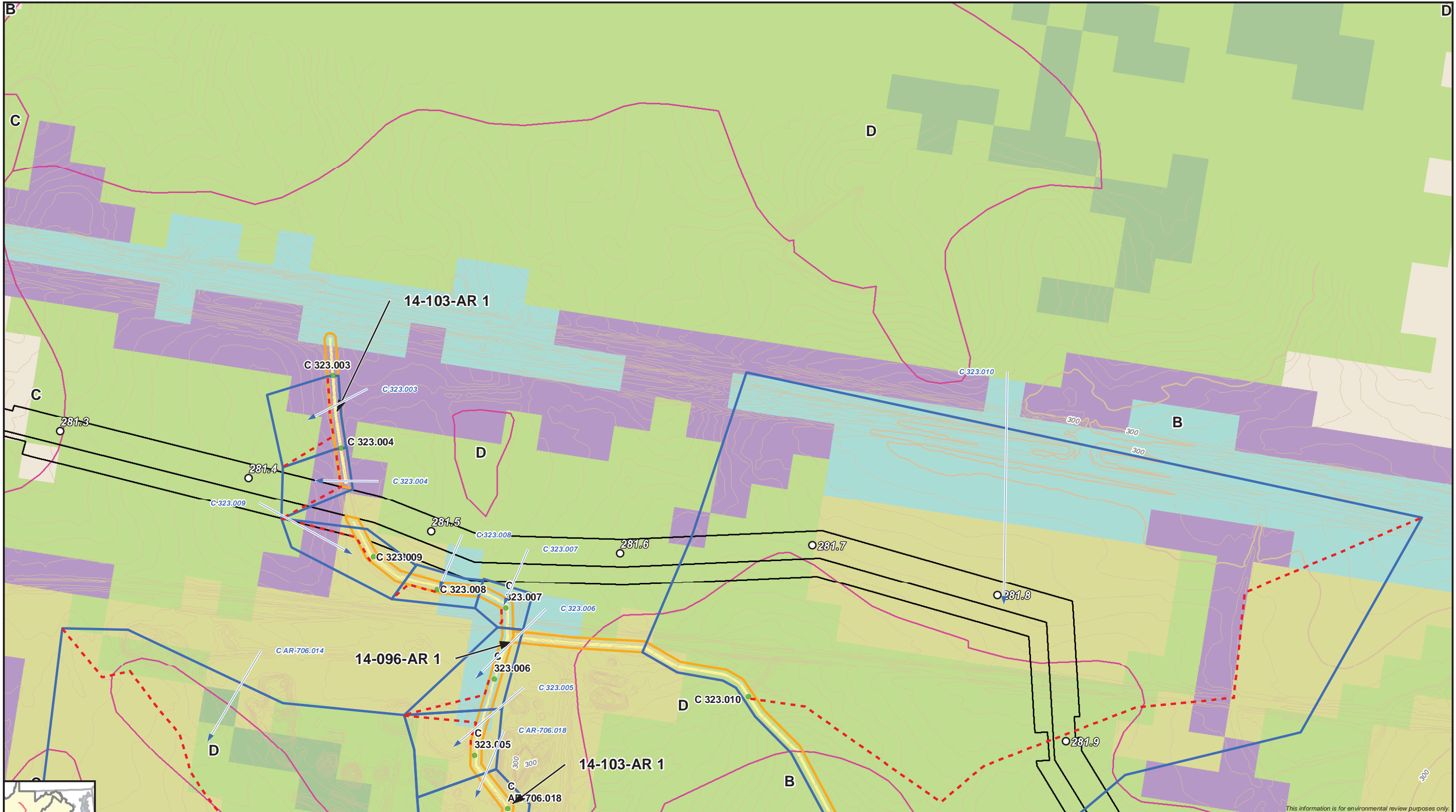
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Low Intensity
 - Developed, Open Space

- Forest
- Grassland
- Gravel
- Shrub

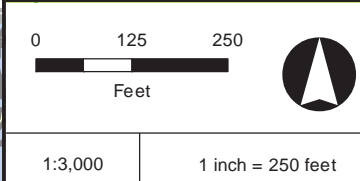
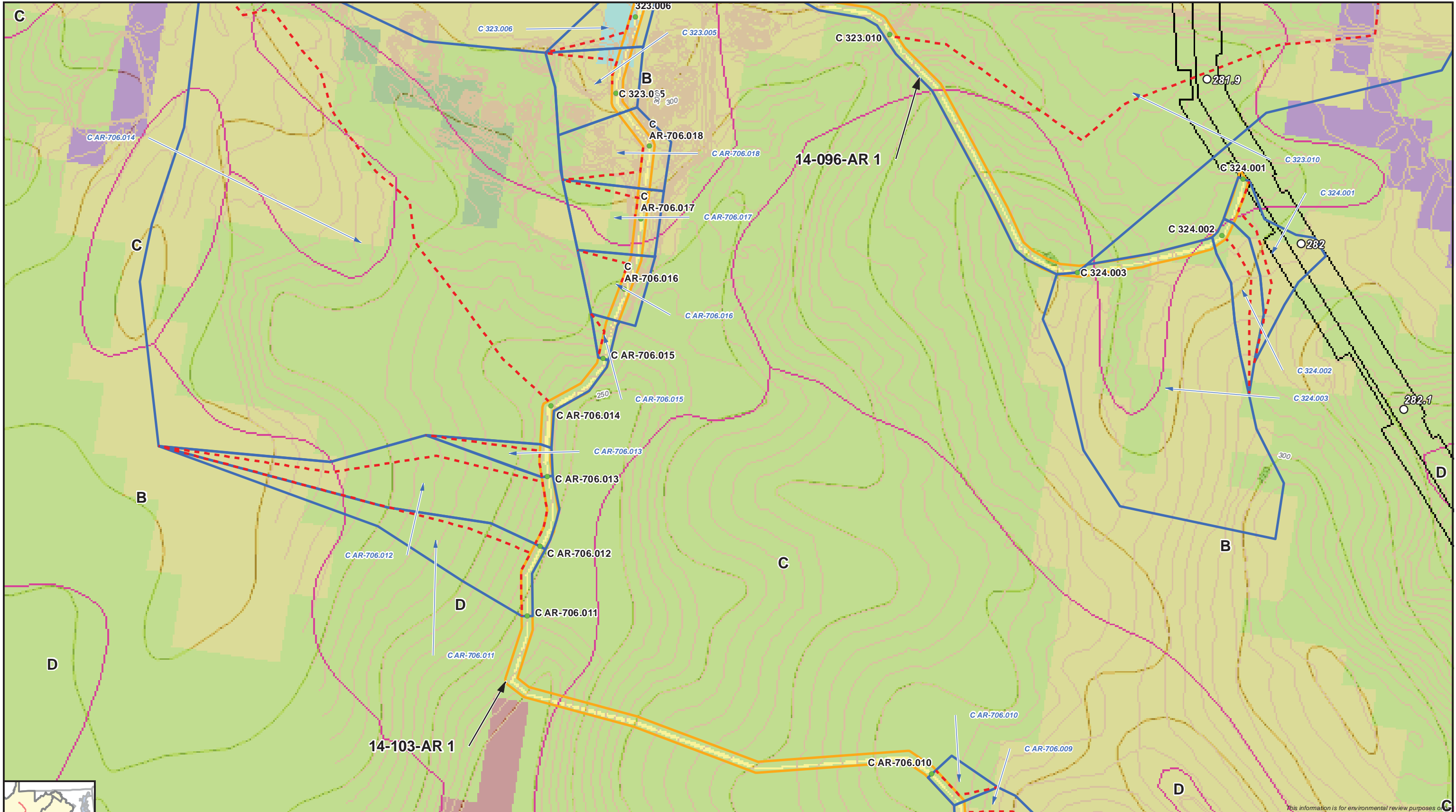
Access Road Key →



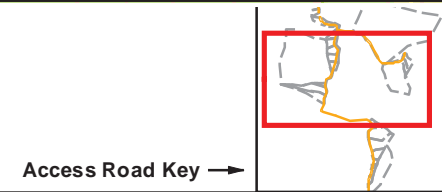
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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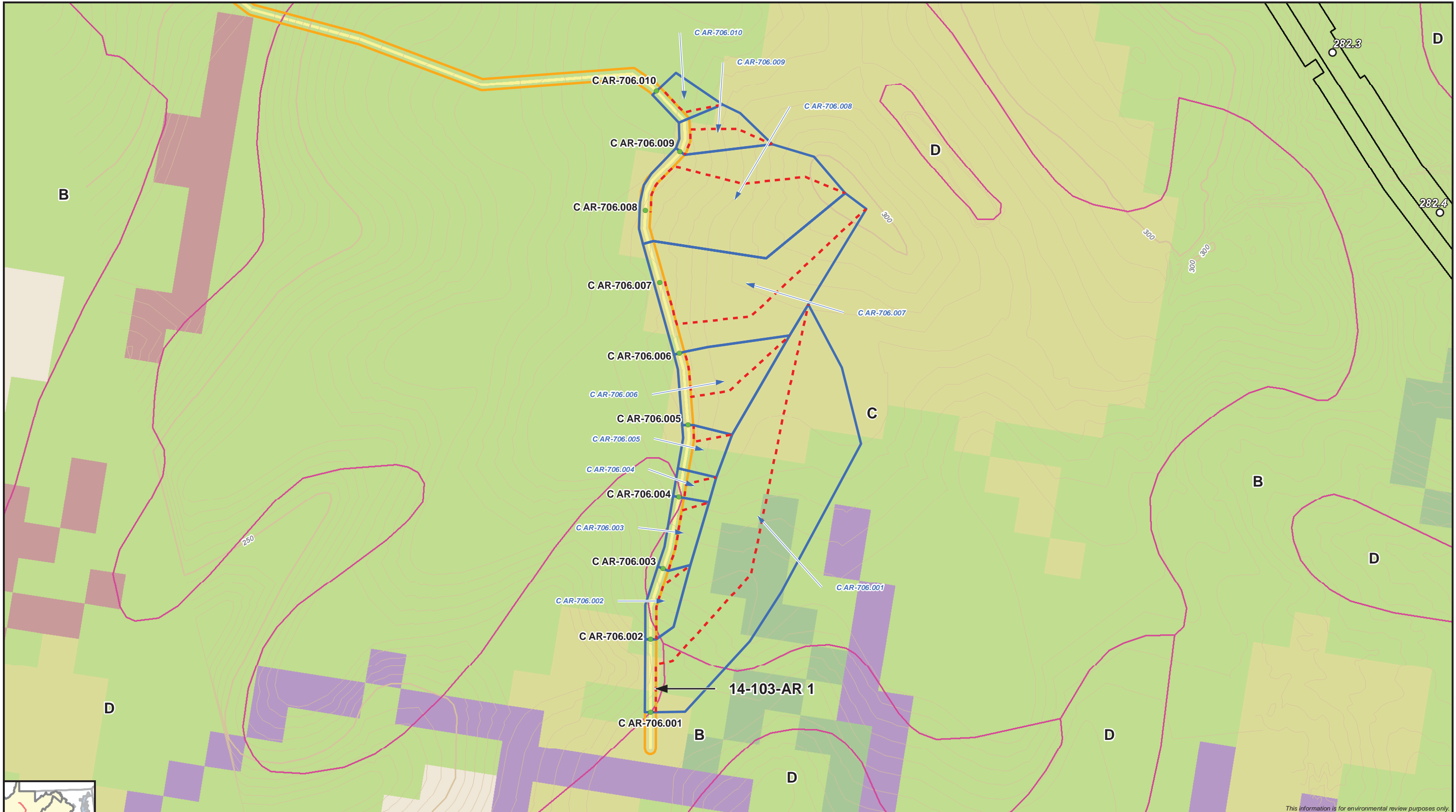


- | | | | |
|-----------------------------|-------------------------|----------------------------|------------|
| ○ Milepost | --- Flow Path | ■ Developed, Low Intensity | ■ Wetlands |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | |
| ▭ Pipeline ROW | — Minor Contour | ■ Forest | |
| ▭ Culvert Drainage Area | Land Cover | ■ Grassland | |
| ● Culvert | ■ Agriculture | ■ Gravel | |
| | ■ Hydrologic Soil Group | | |

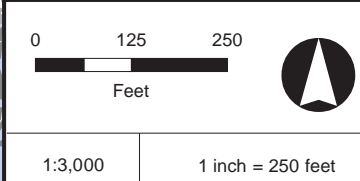
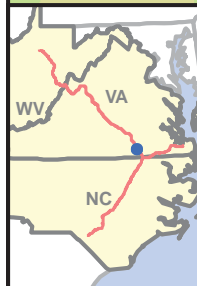


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

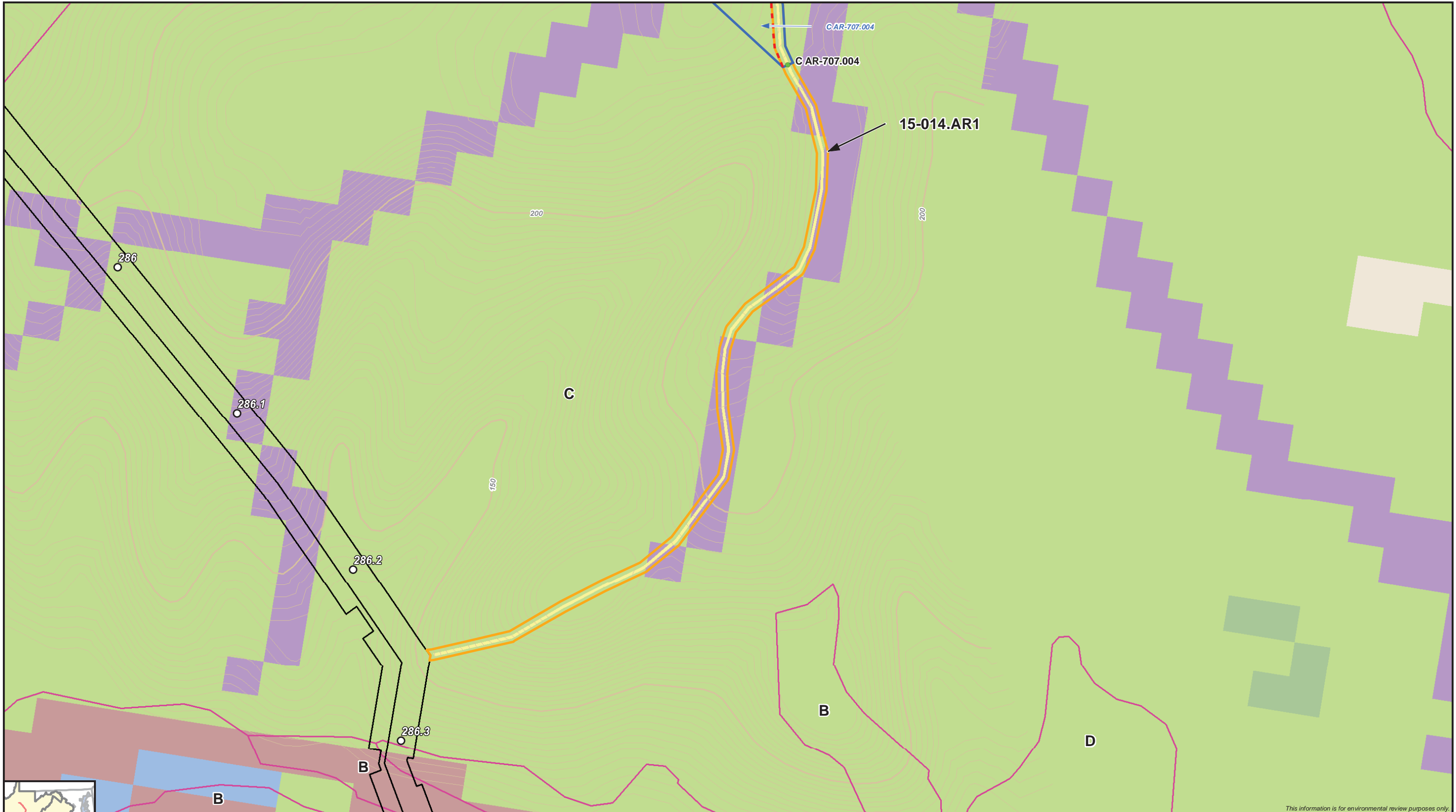
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

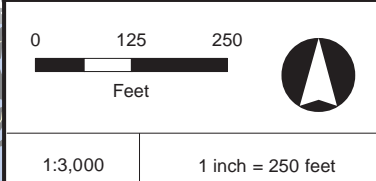
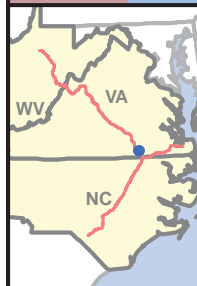


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

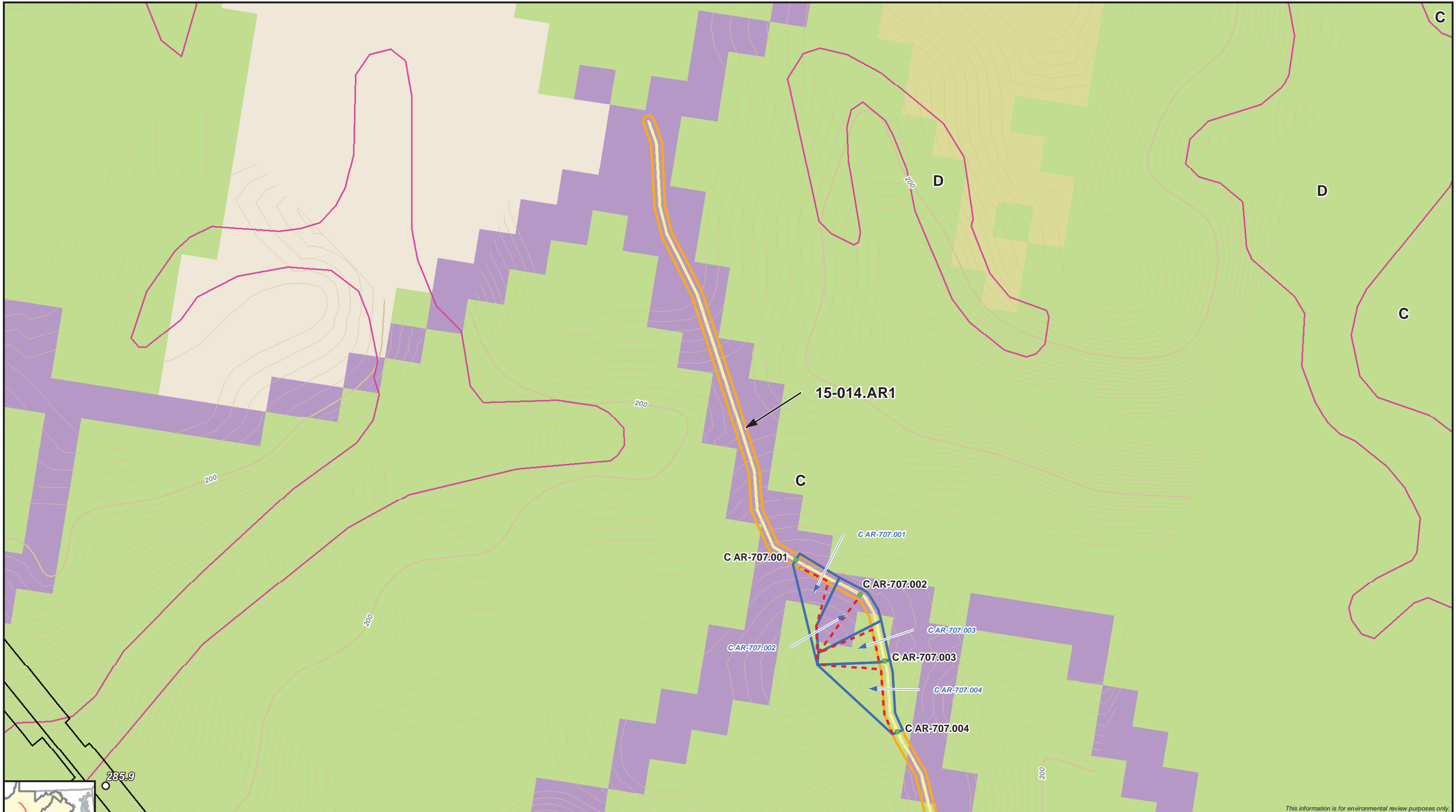
- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland

- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands

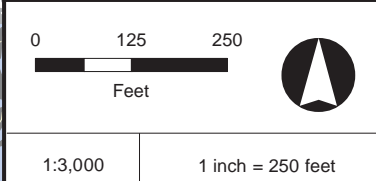
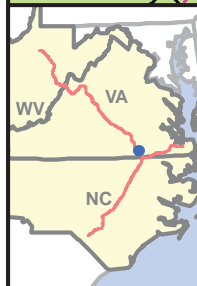


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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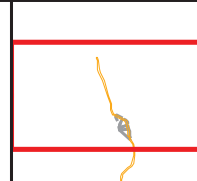


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

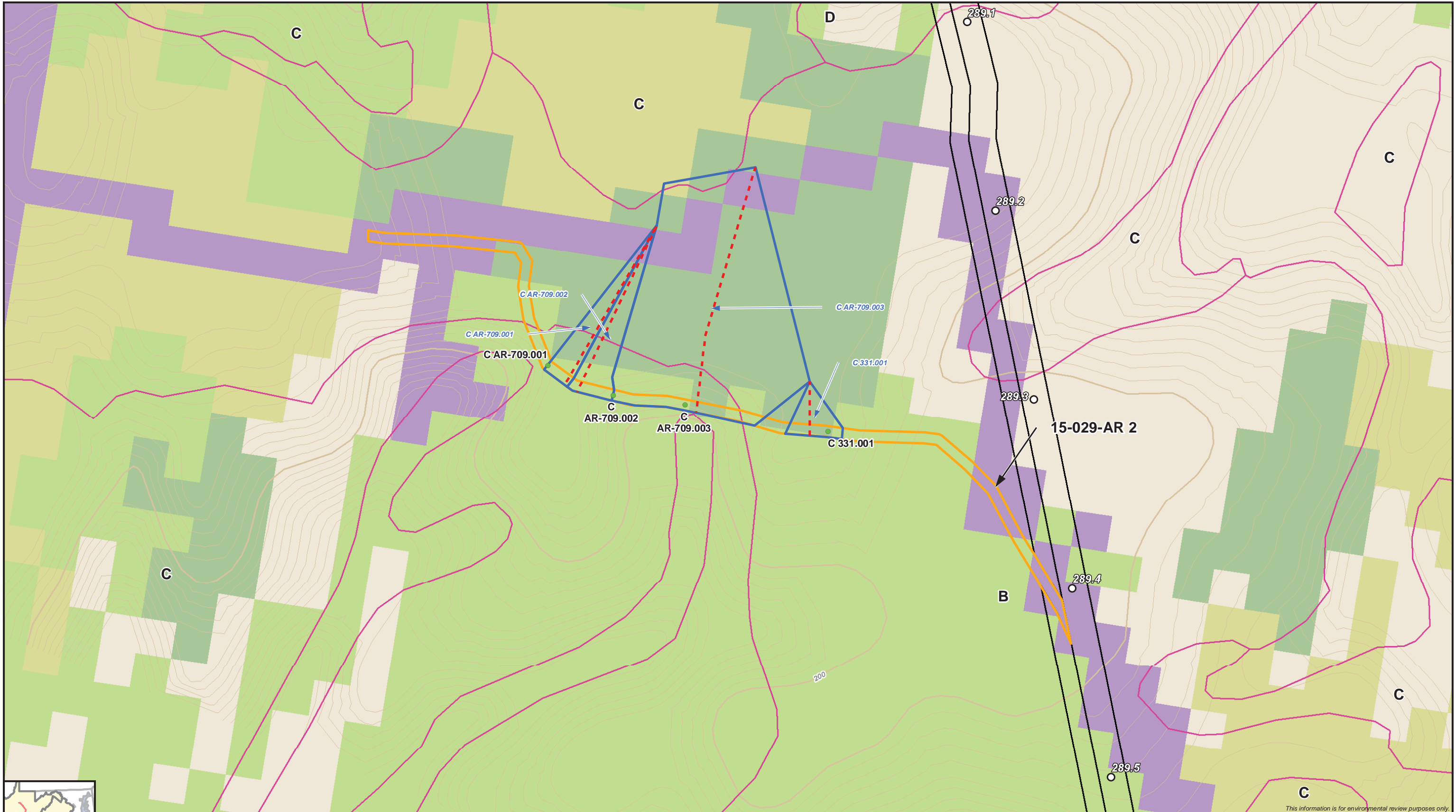
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →

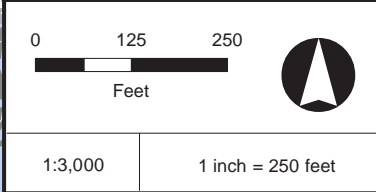
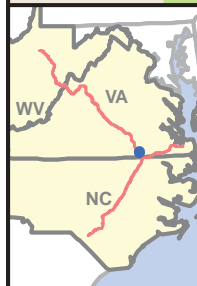


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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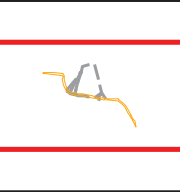
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

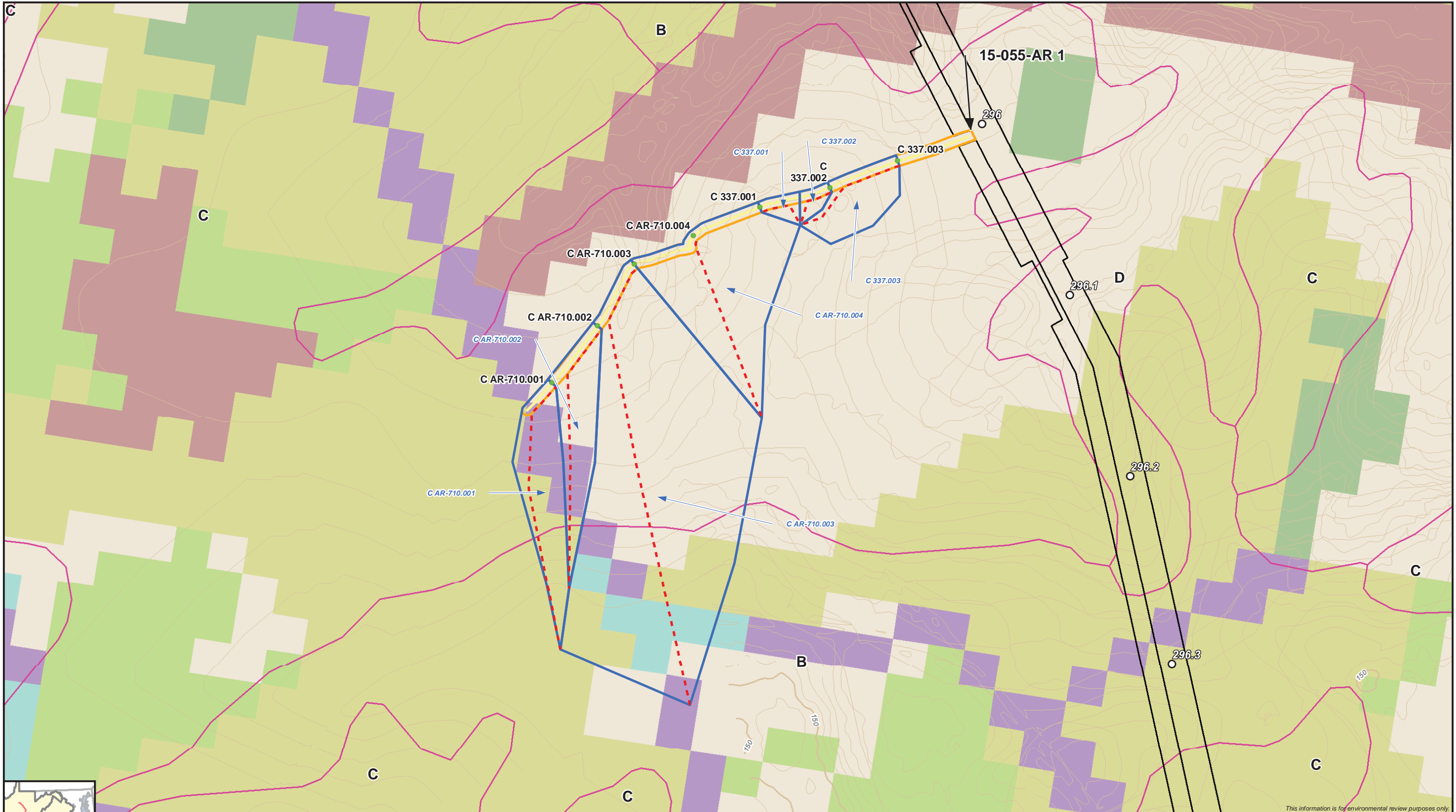
- ▭ Forest
- ▭ Grassland
- ▭ Shrub

Access Road Key →

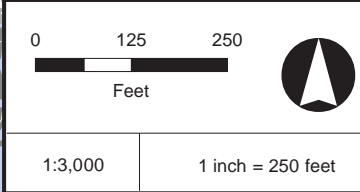
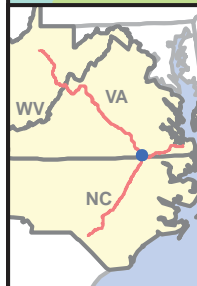


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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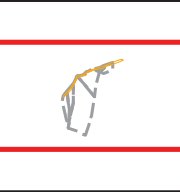
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

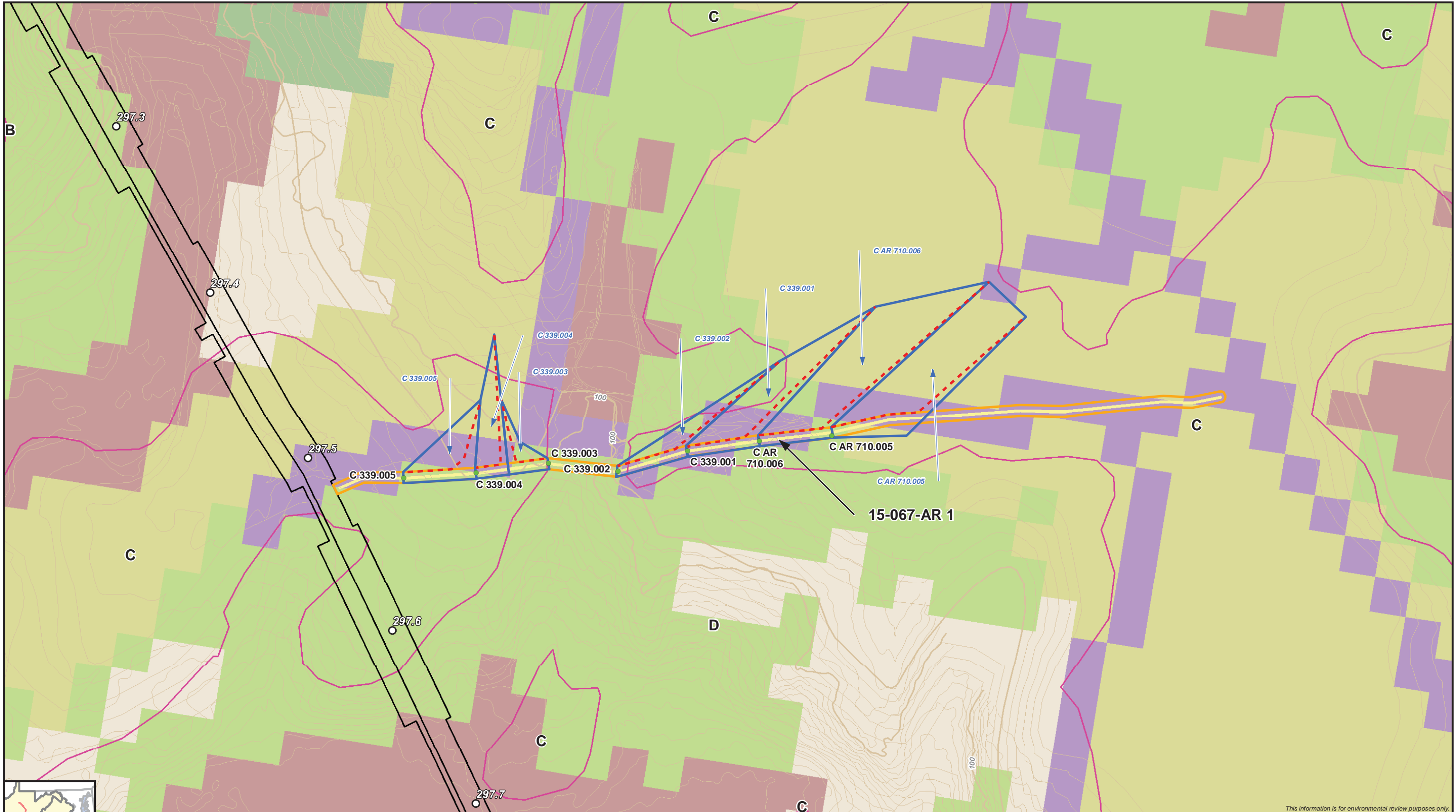
- Land Cover**
- Agriculture
 - Developed, Low Intensity
 - Developed, Open Space
 - Forest

- Grassland
- Gravel
- Shrub
- Wetlands

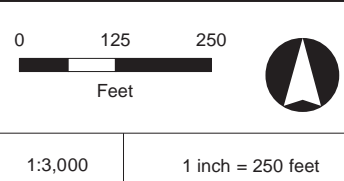
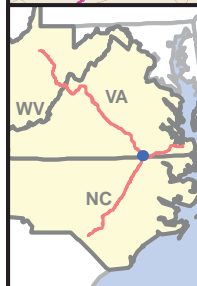
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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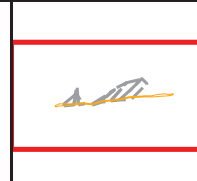
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest

- Grassland
- Gravel
- Shrub
- Wetlands

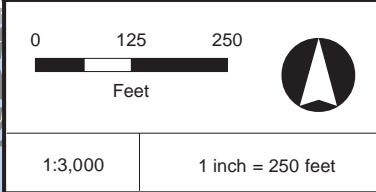
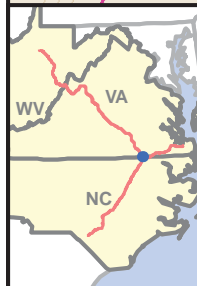
Access Road Key →



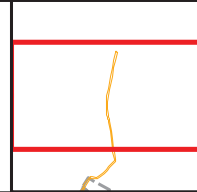
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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<ul style="list-style-type: none"> Permanent Access Road ROW Major Contour Minor Contour 	Land Cover <ul style="list-style-type: none"> Agriculture Developed, Open Space Hydrologic Soil Group 	<ul style="list-style-type: none"> Grassland Gravel Shrub Wetlands
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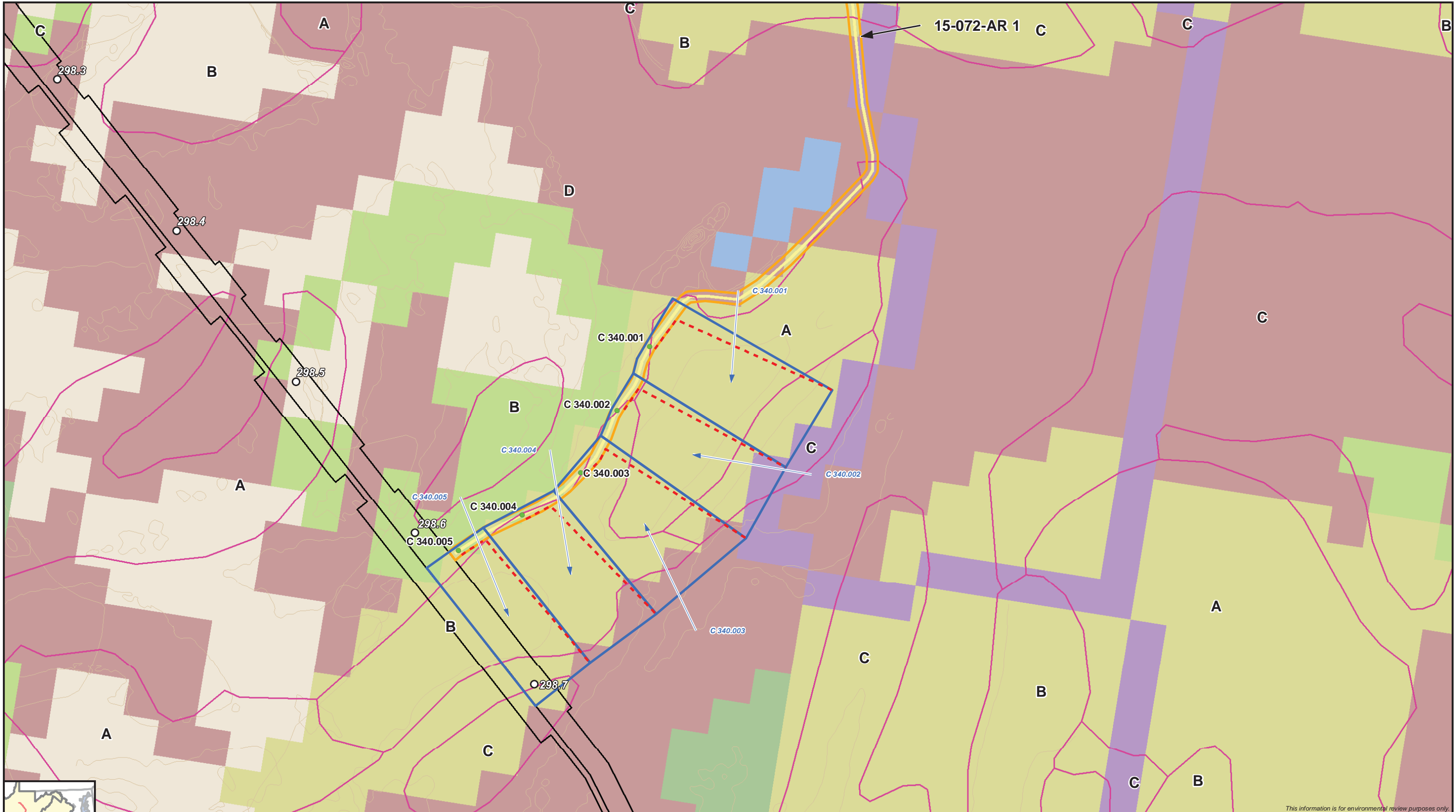
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Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

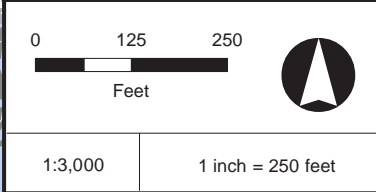
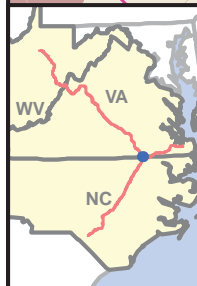
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DRAWN BY: TG

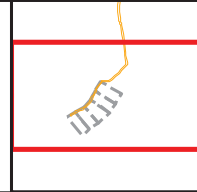
This information is for environmental review purposes only.



This information is for environmental review purposes only.



○ Milepost	--- Flow Path	Land Cover	Gravel
▭ Permanent Access Road ROW	--- Minor Contour	Agriculture	Open Water
▭ Pipeline ROW		Developed, Open Space	Shrub
▭ Culvert Drainage Area	▭ Hydrologic Soil Group	Forest	Wetlands
● Culvert		Grassland	

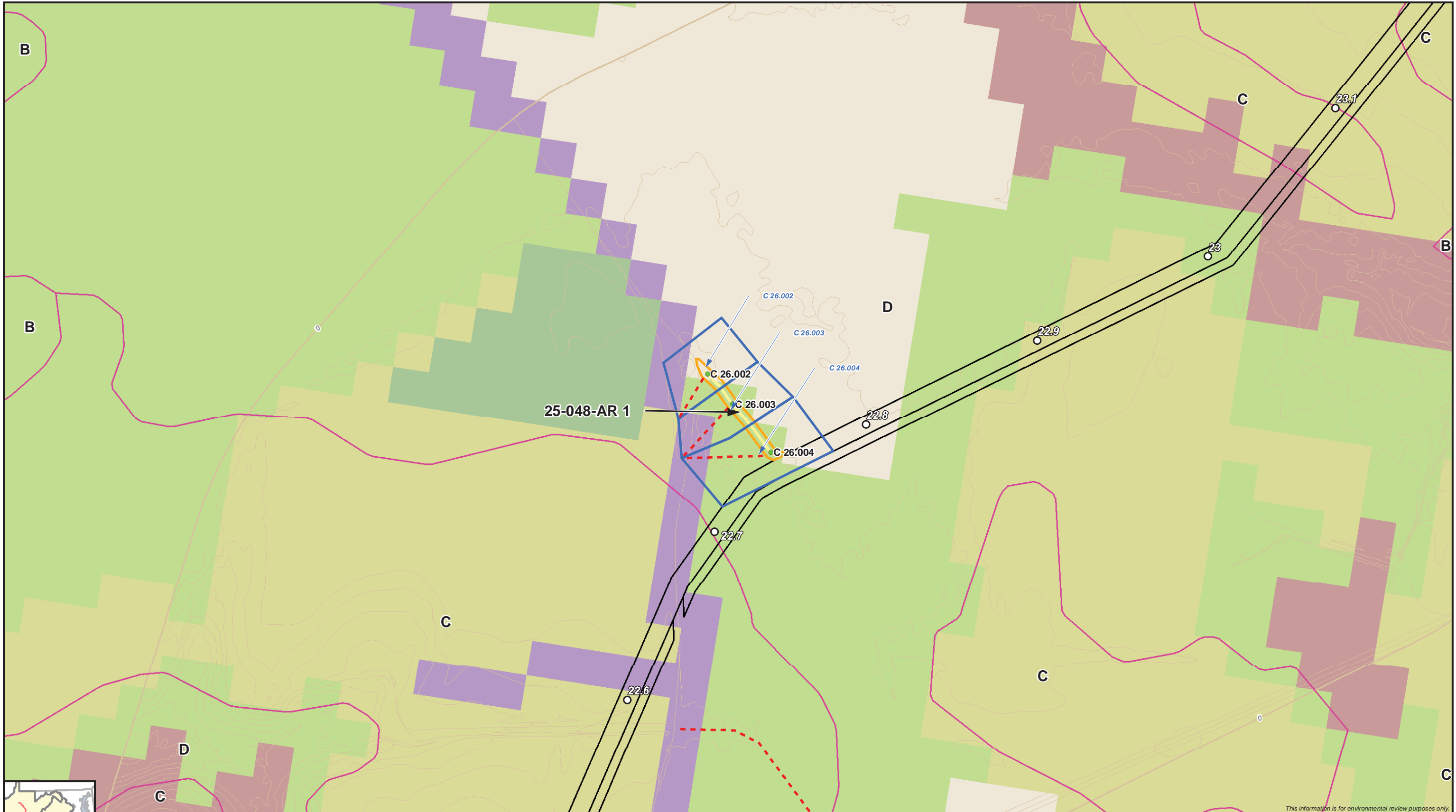


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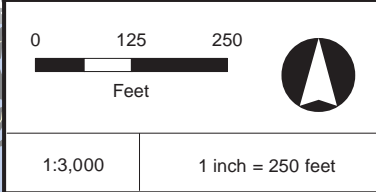
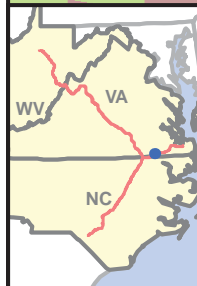
Virginia Culvert and Ditch Analysis

Permanent Access Roads
Pre-Development Conditions

DRAWN BY: TG



This information is for environmental review purposes only.



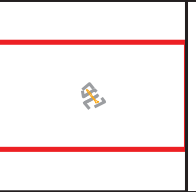
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

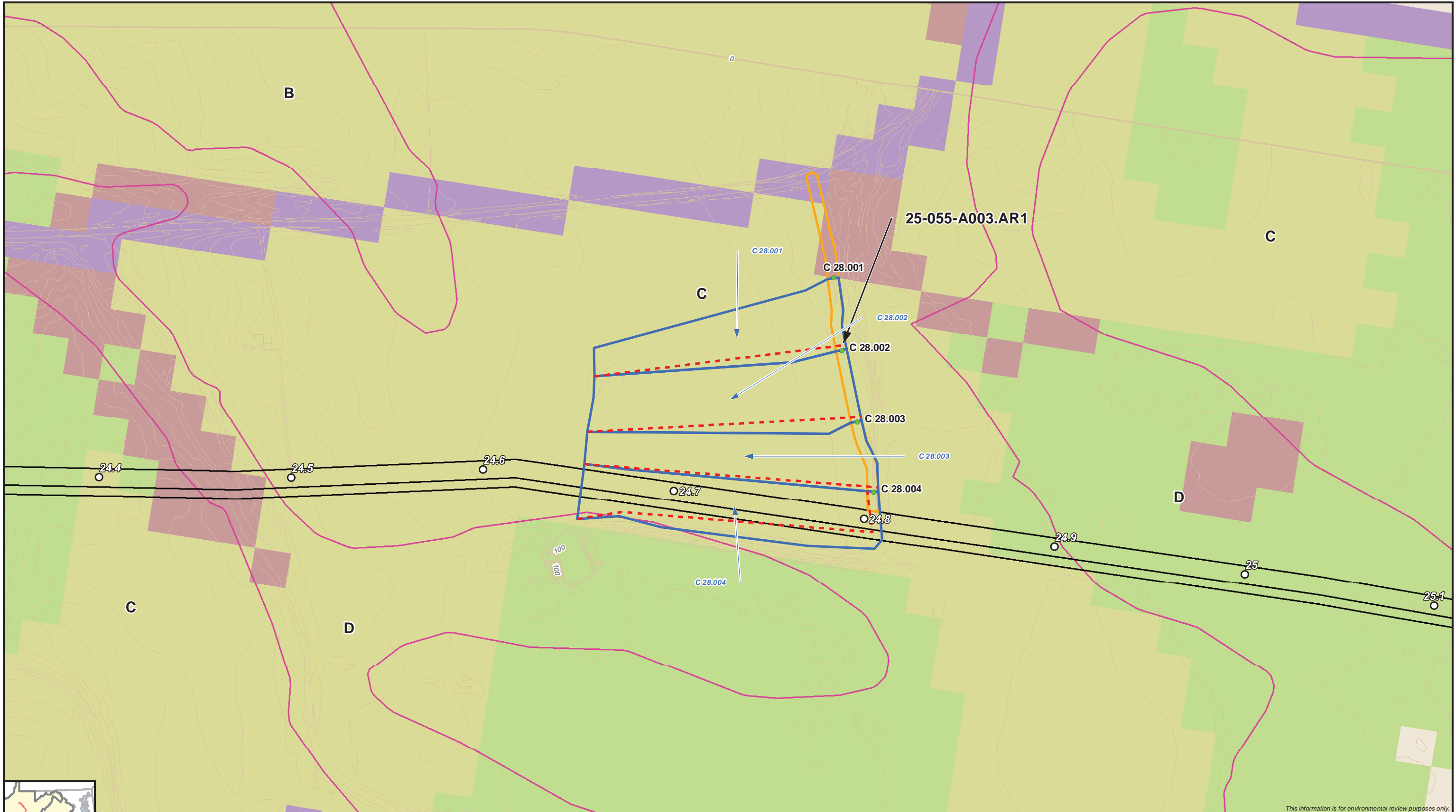
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

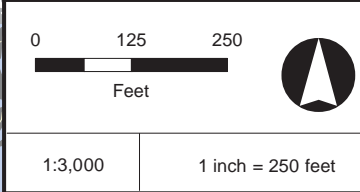
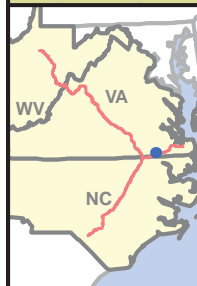


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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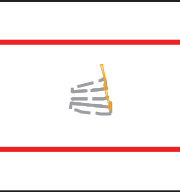


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Shrub
 - ▭ Wetlands

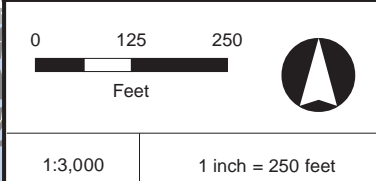
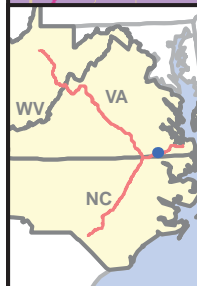
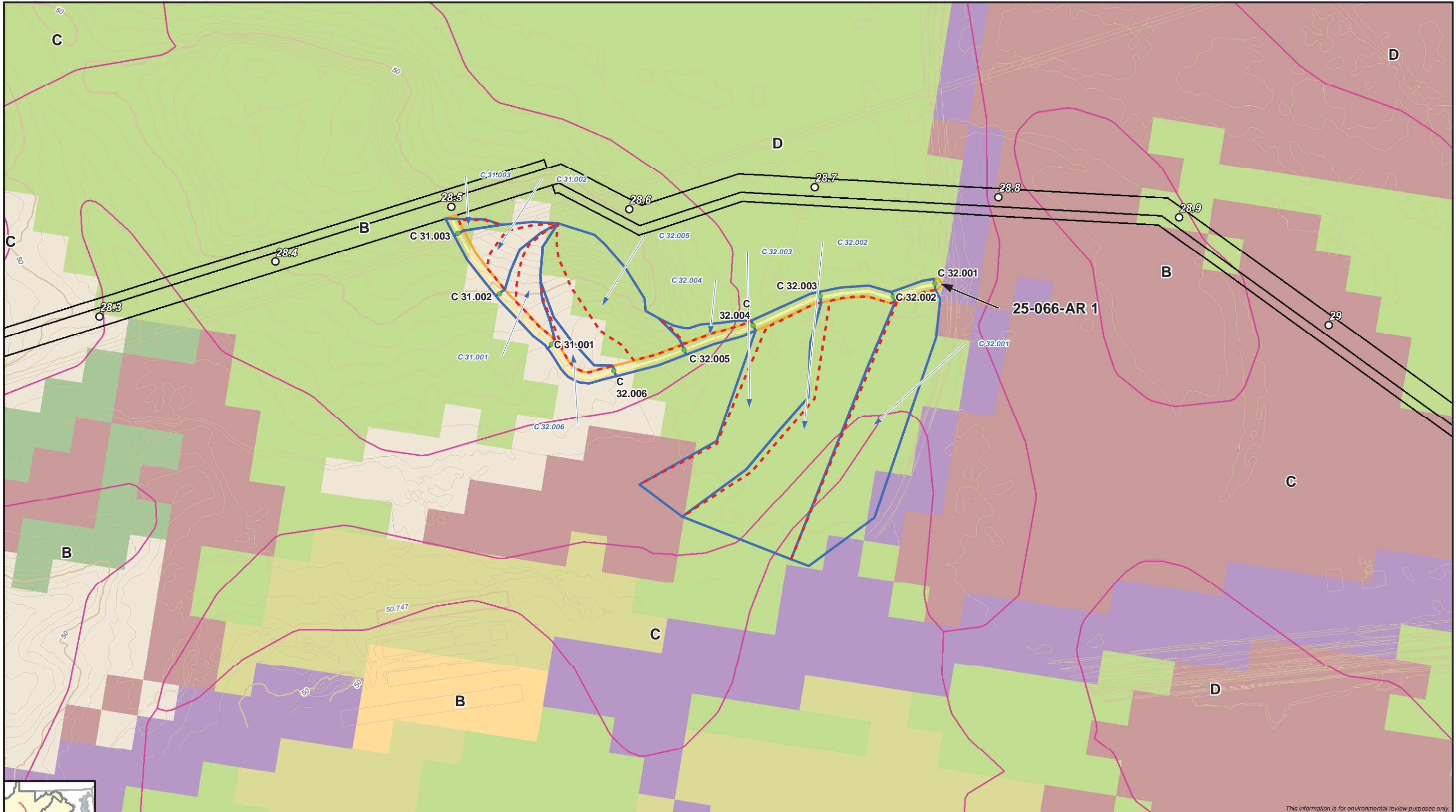
Access Road Key →



Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- Agriculture
 - Developed, Medium Intensity
 - Developed, Open Space
 - Forest

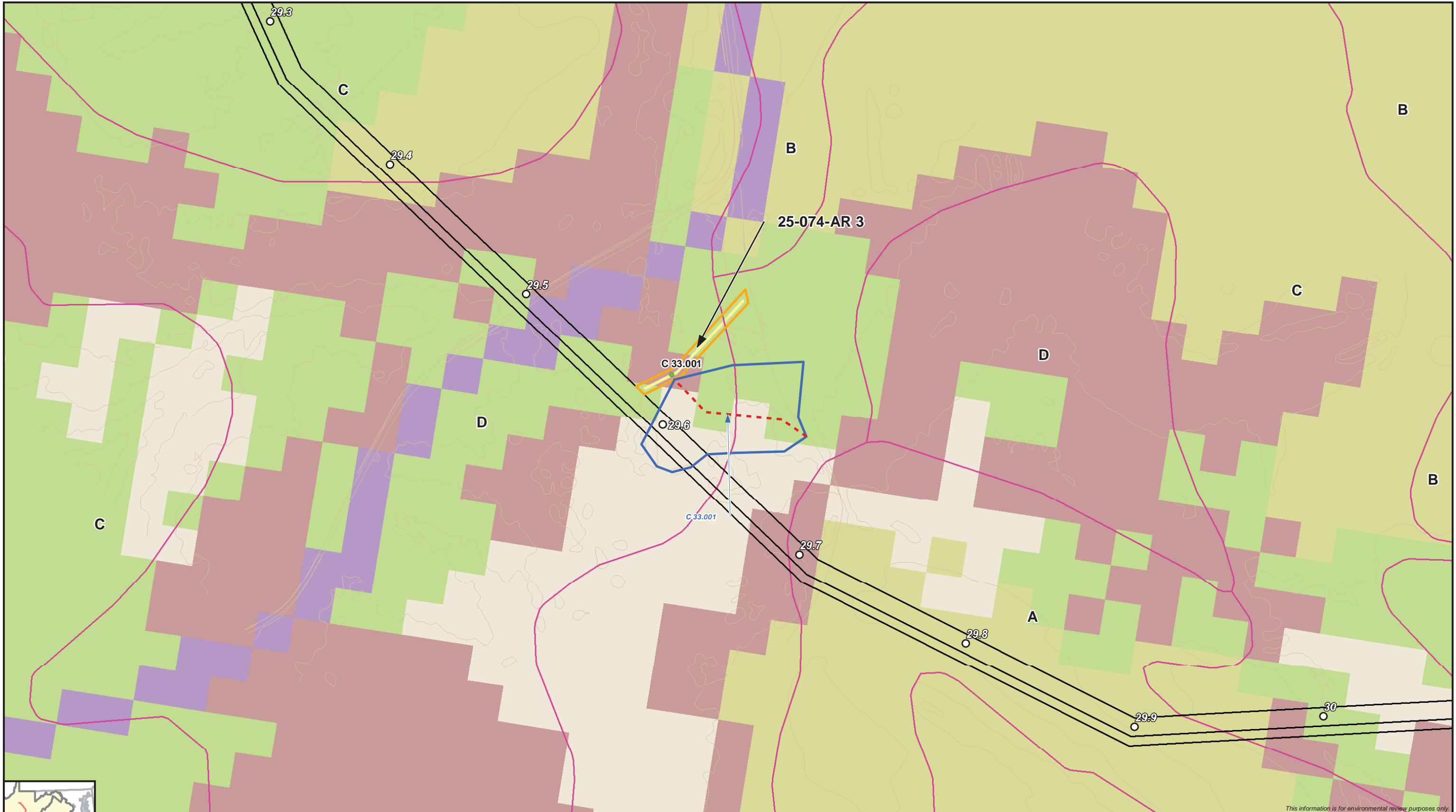
- Grassland
- Gravel
- Shrub
- Wetlands



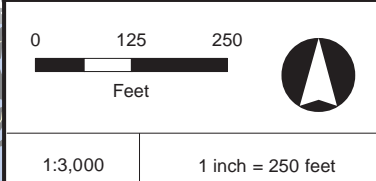
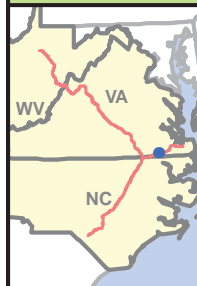
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

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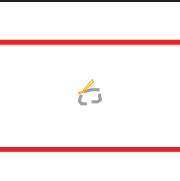


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Minor Contour
- ⓐ Hydrologic Soil Group

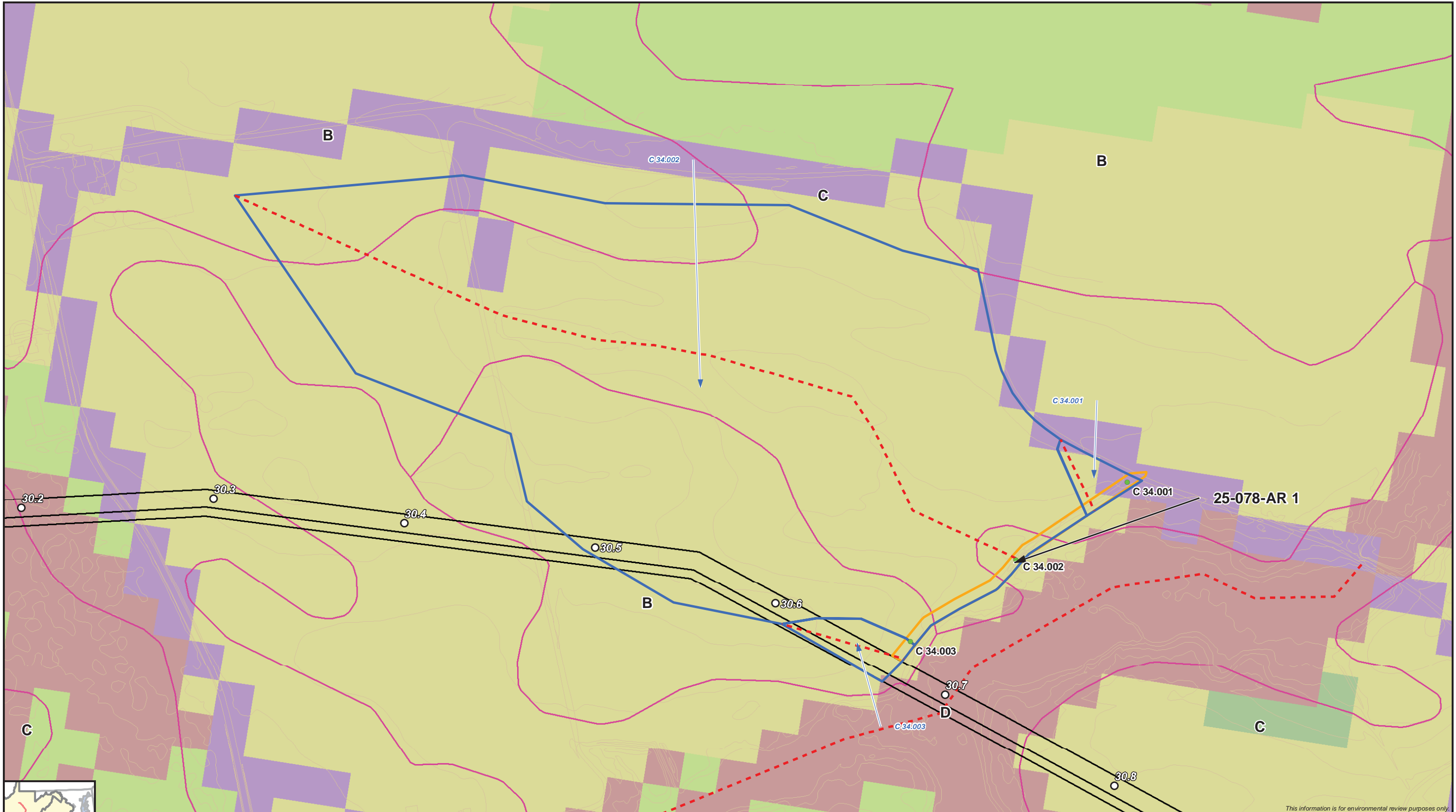
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel
 - ▭ Shrub
 - ▭ Wetlands

Access Road Key →

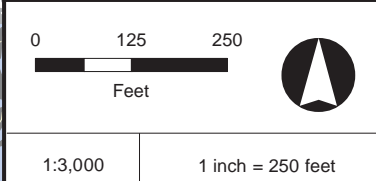


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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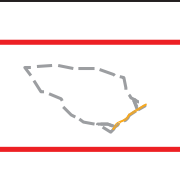


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Minor Contour
- ▭ Hydrologic Soil Group

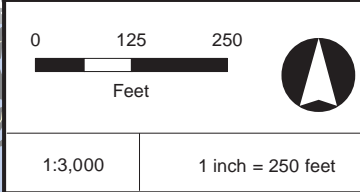
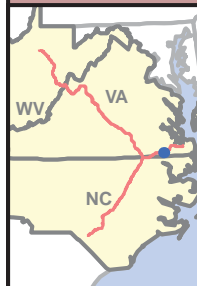
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland
 - ▭ Wetlands

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





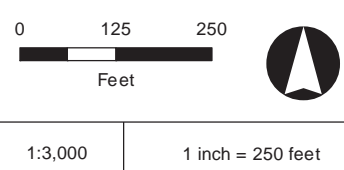
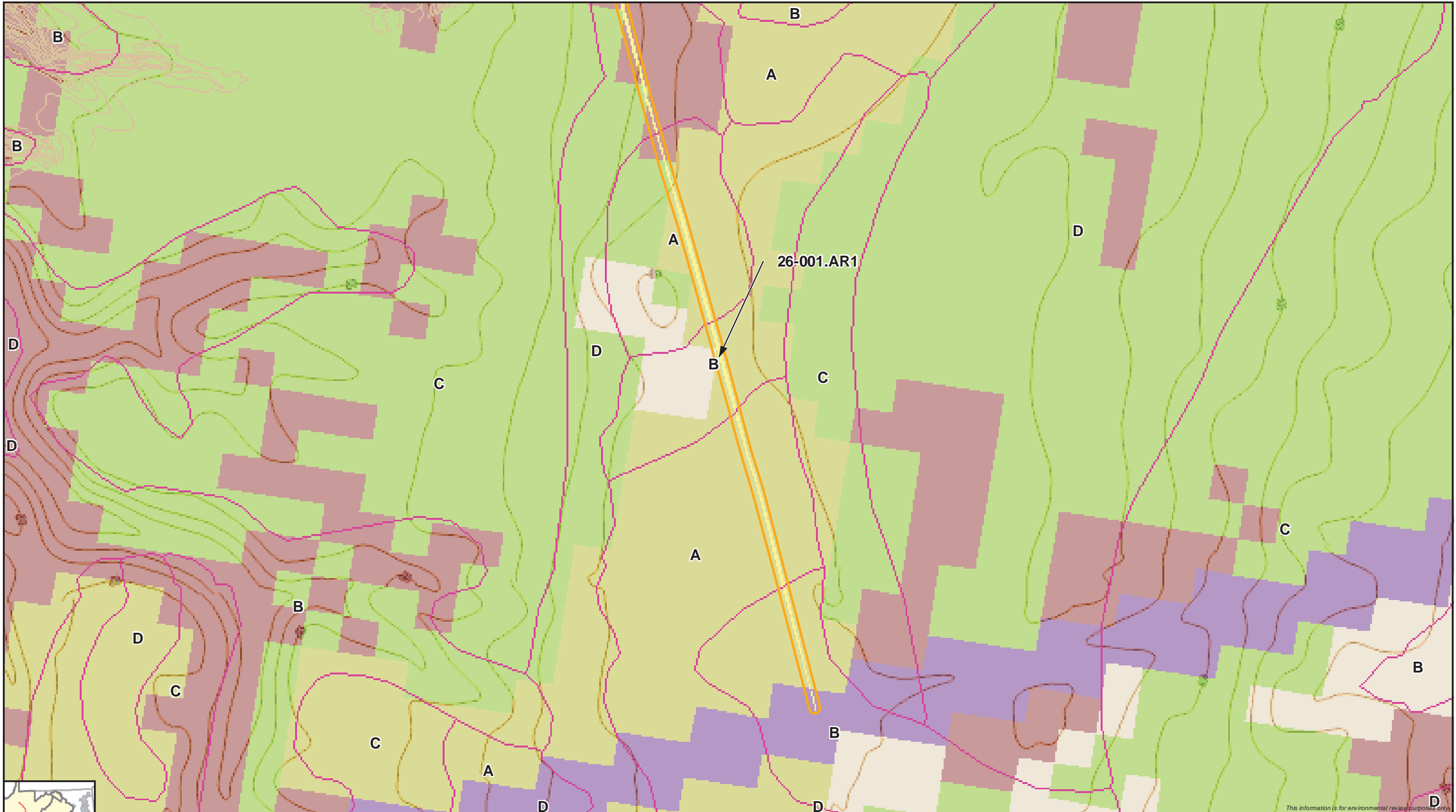
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
- ▭ Forest
- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

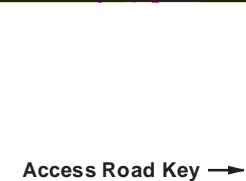


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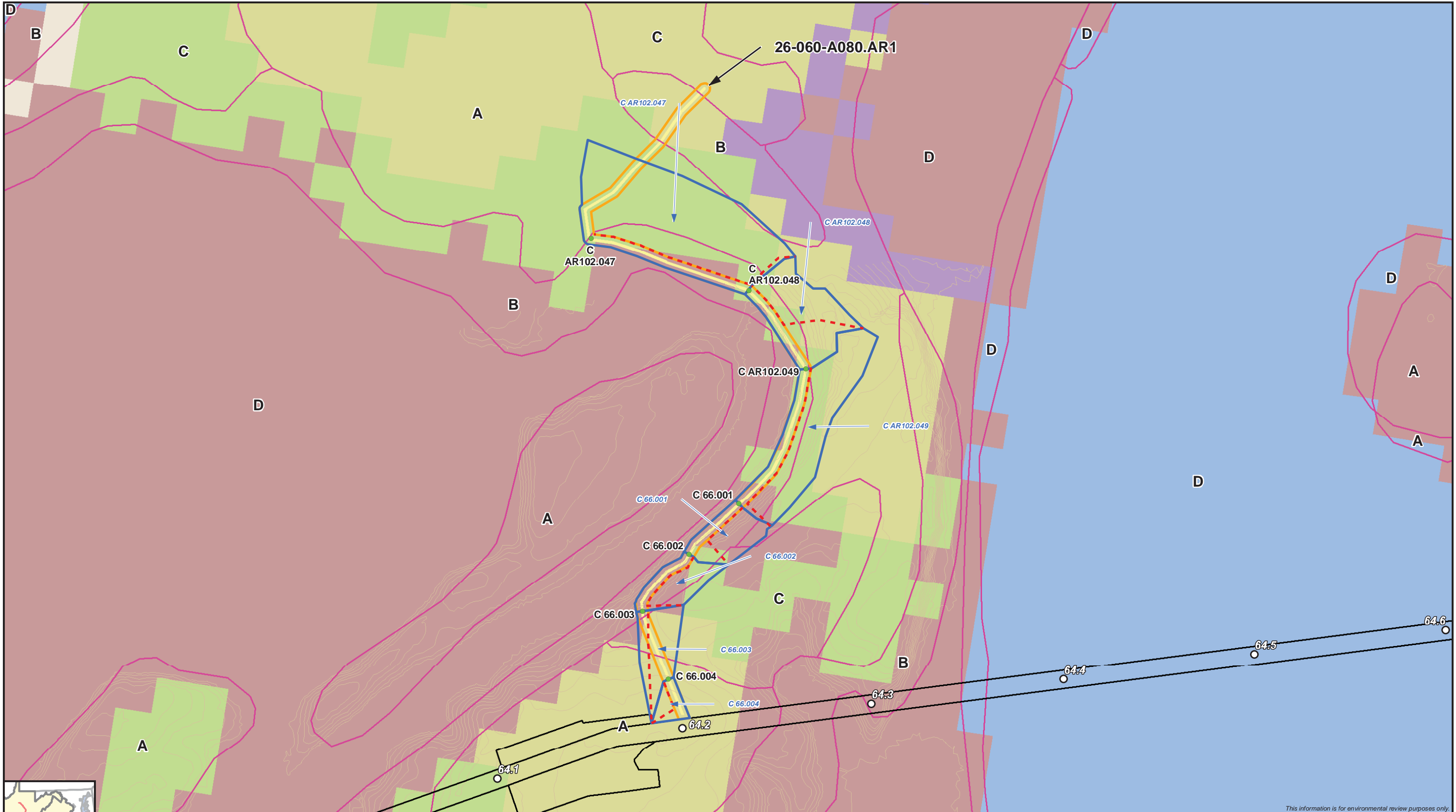
- Permanent Access Road ROW
- Minor Contour
- Land Cover**
- Agriculture
- Developed, Open Space
- Forest
- Gravel
- Shrub
- Wetlands

Hydrologic Soil Group

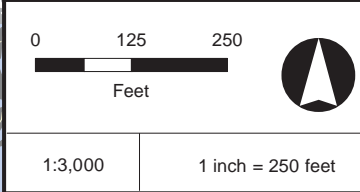


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions





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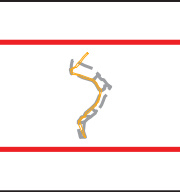
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands

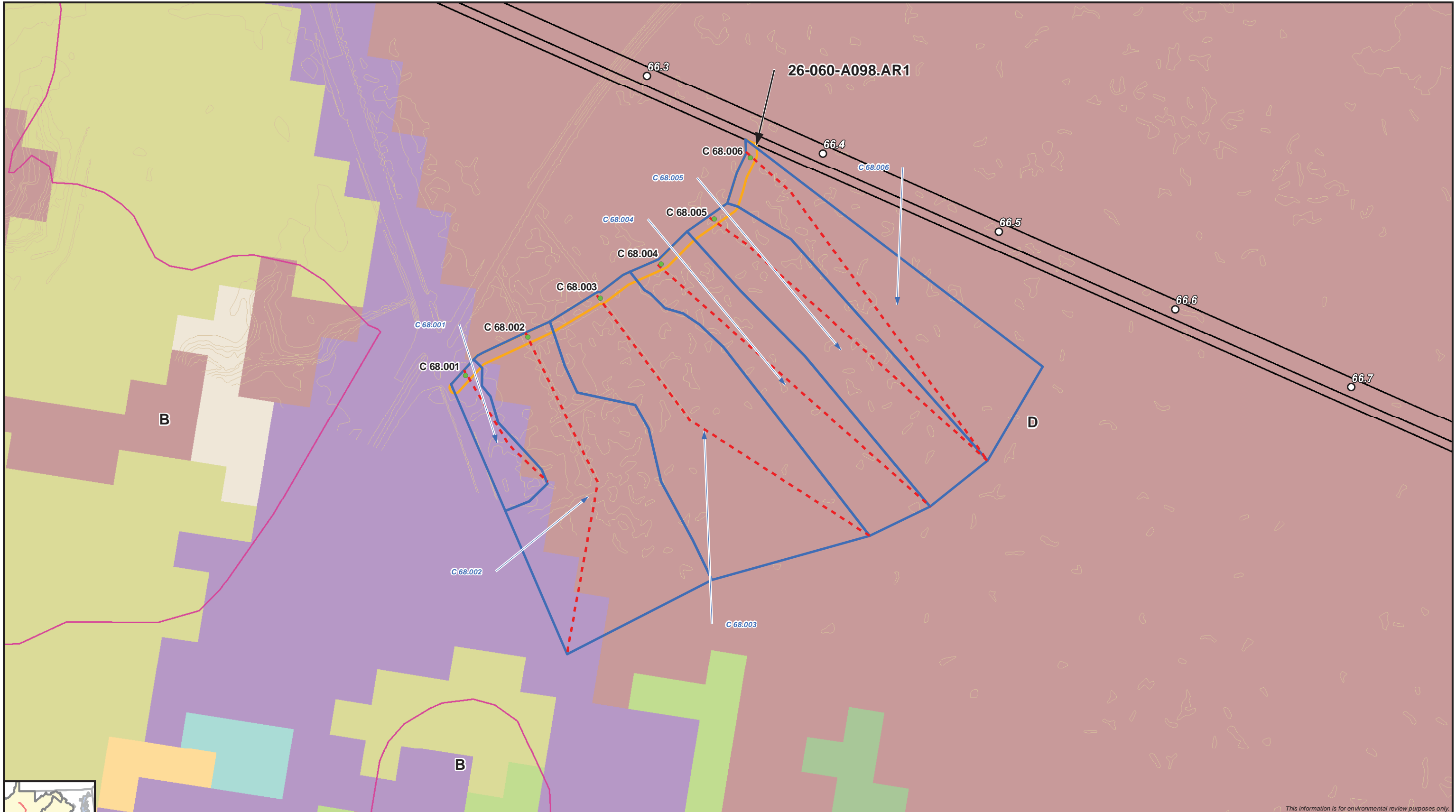
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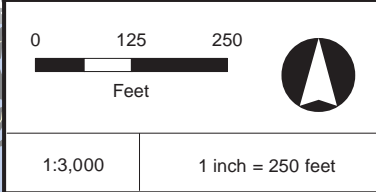
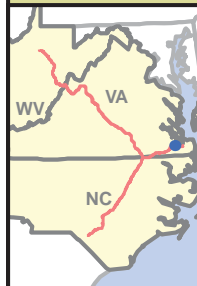
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Medium Intensity
 - ▭ Developed, Open Space

- ▭ Forest
- ▭ Grassland
- ▭ Shrub
- ▭ Wetlands

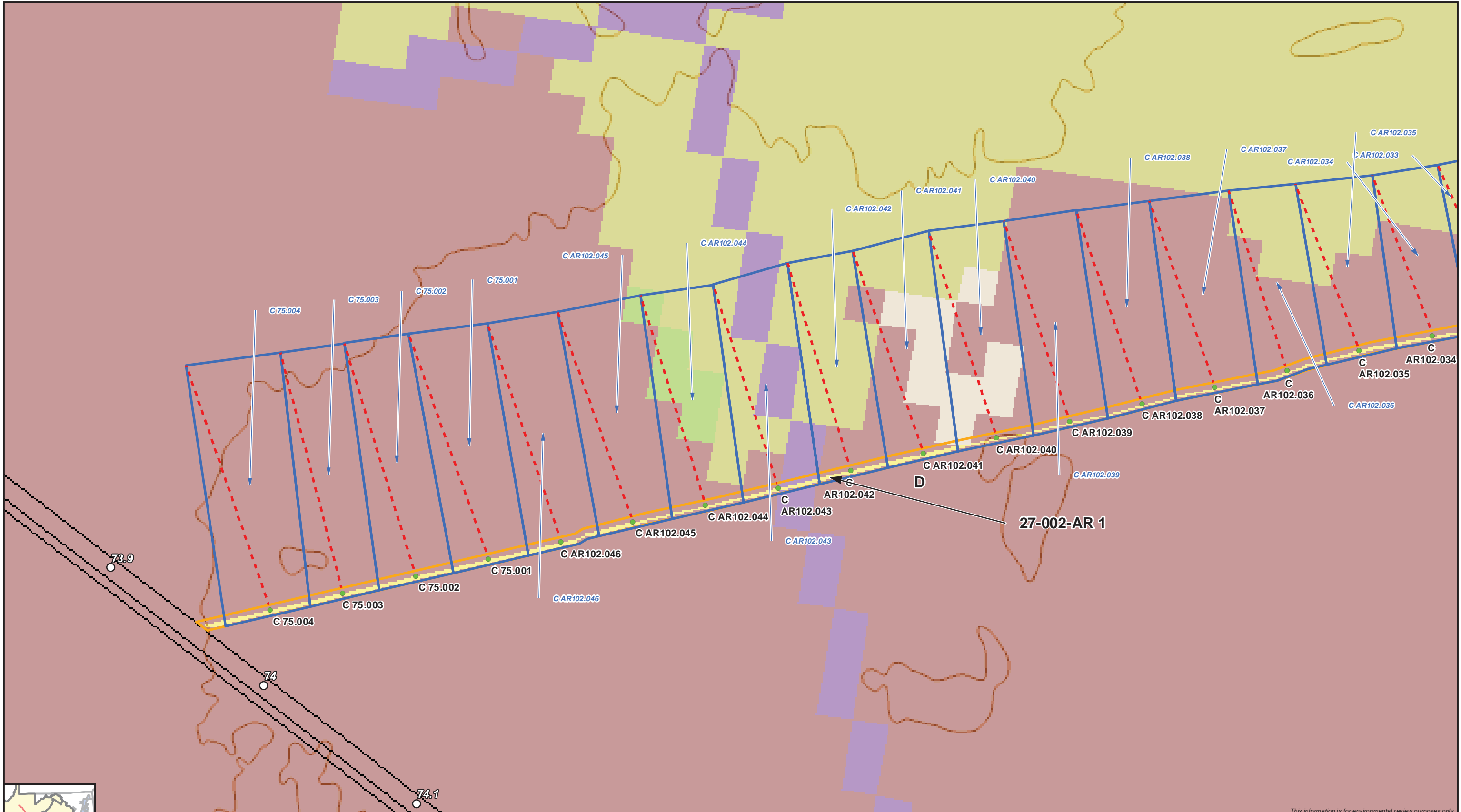
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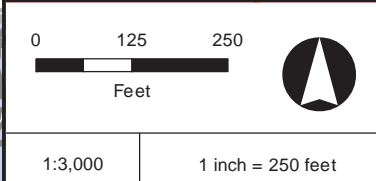
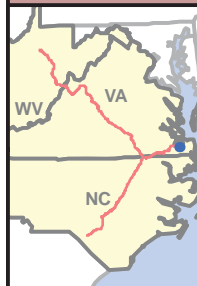
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Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

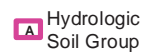
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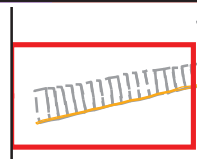
This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Land Cover**
- ▭ Agriculture
- ▭ Developed, Open Space
- ▭ Forest
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

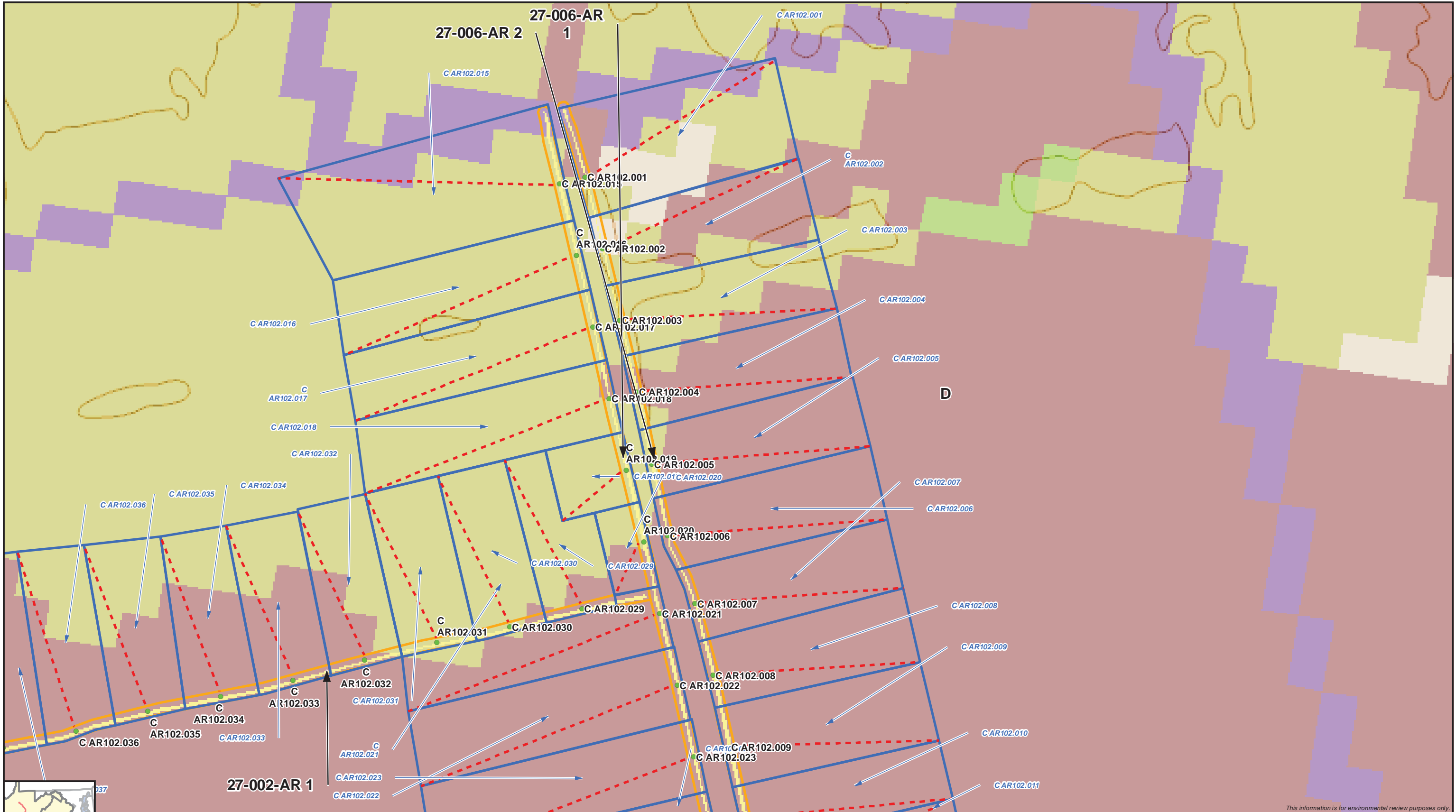


Access Road Key →

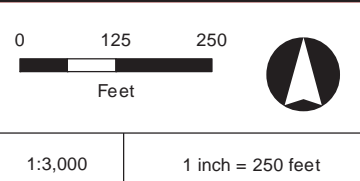
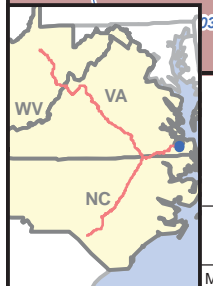


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

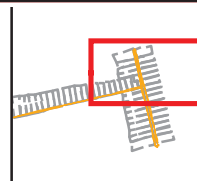




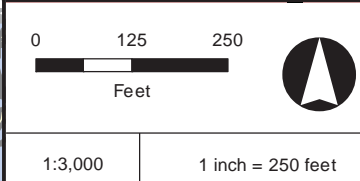
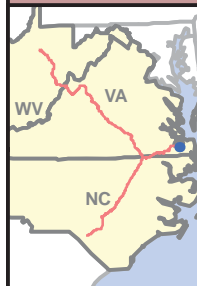
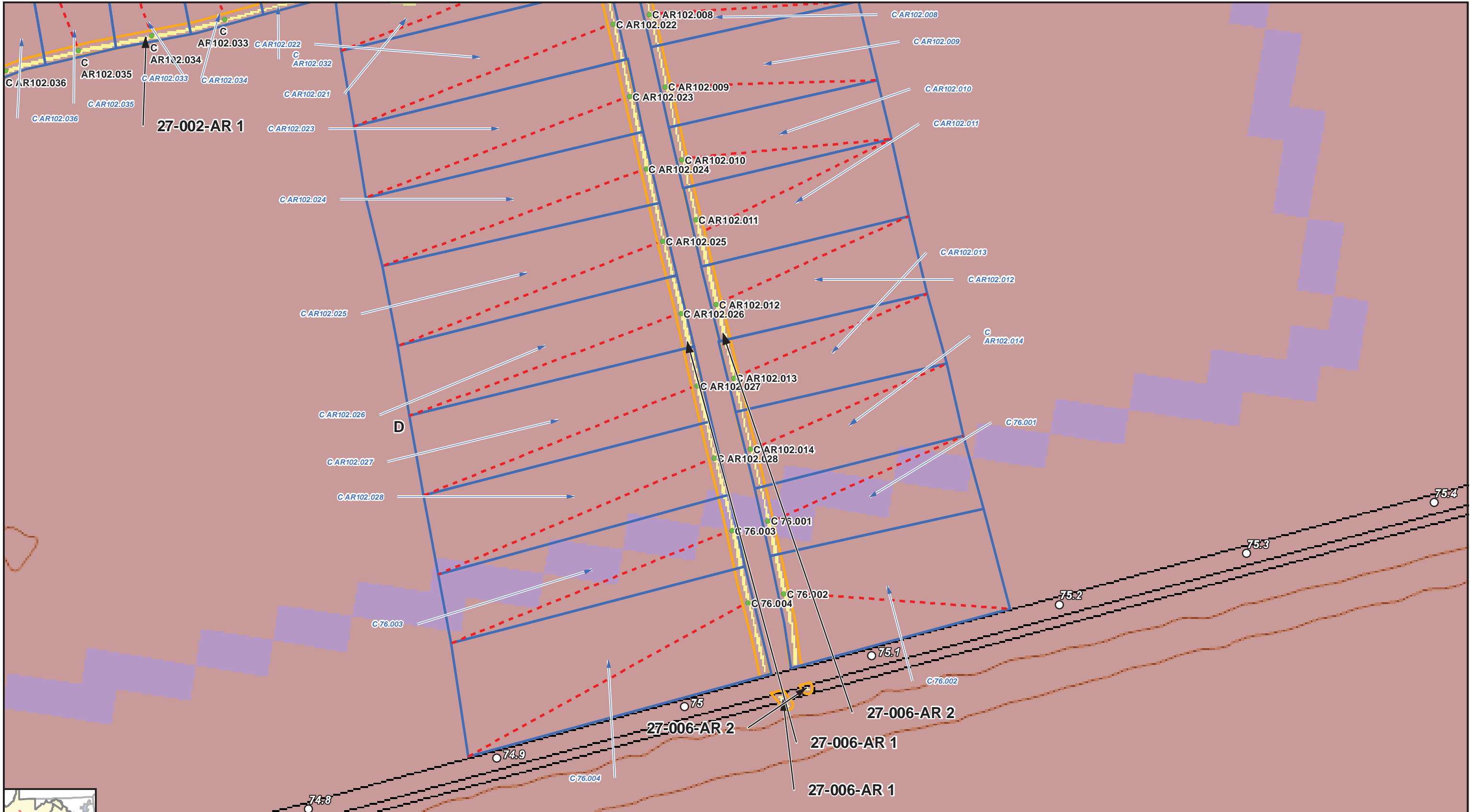
This information is for environmental review purposes only.



Permanent Access Road ROW	Land Cover	Shrub
Culvert Drainage Area	Agriculture	Wetlands
Culvert	Developed, Open Space	
Flow Path	Forest	
	Gravel	
	Hydrologic Soil Group	



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



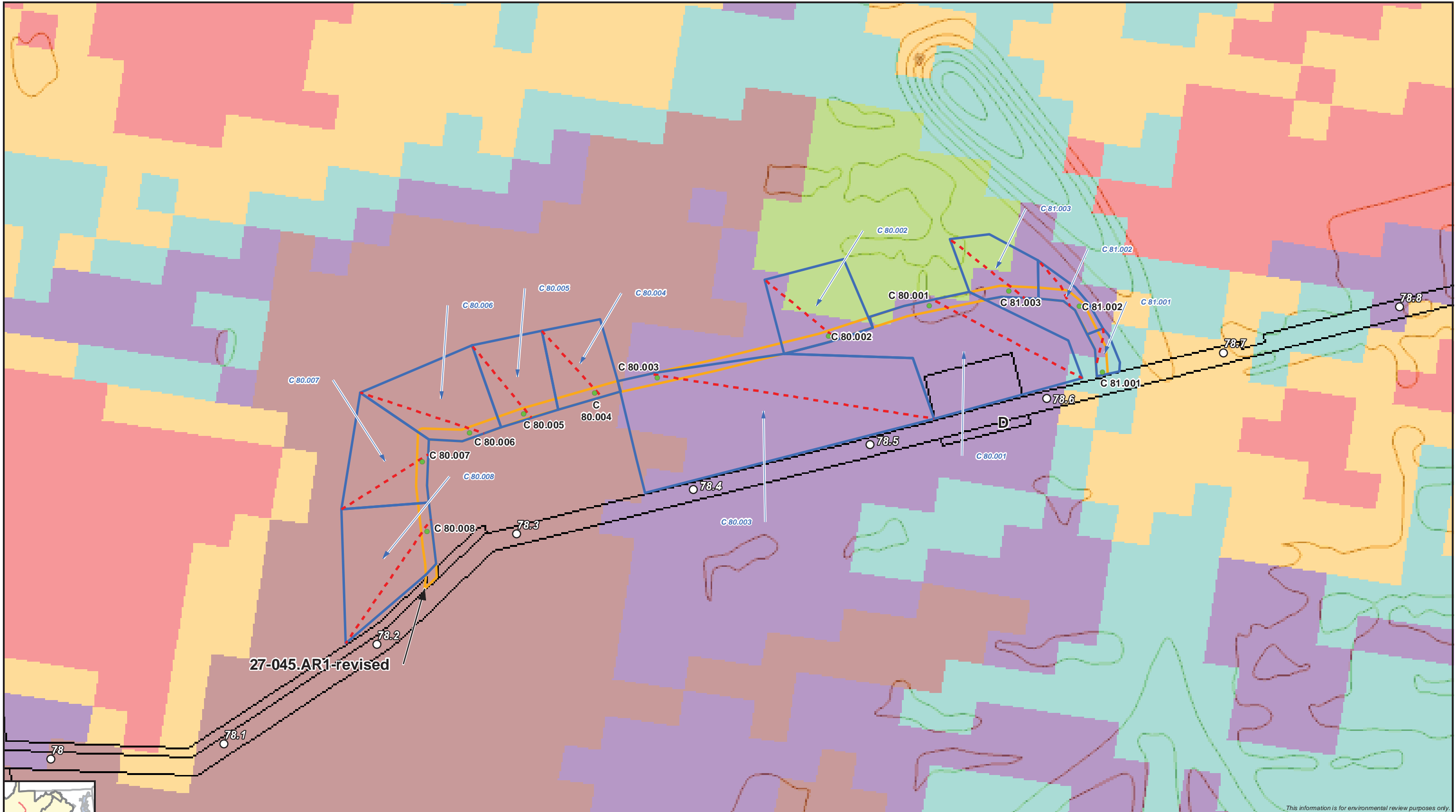
- Milepost
- Permanent Access Road ROW
- Pipeline ROW
- Culvert Drainage Area
- Culvert
- Flow Path
- Land Cover
 - Agriculture
 - Developed, Open Space
 - Gravel
- Wetlands
- Hydrologic Soil Group



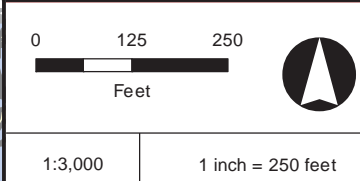
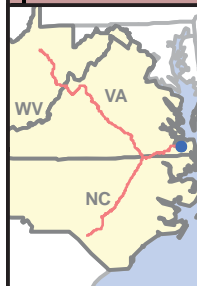
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions



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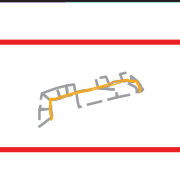


This information is for environmental review purposes only.



- Milepost
- Permanent Access Road ROW
- Pipeline ROW
- Culvert Drainage Area
- Culvert
- Flow Path
- Land Cover**
- Developed, High Intensity
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, Open Space
- Forest
- Wetlands
- Hydrologic Soil Group

Access Road Key →

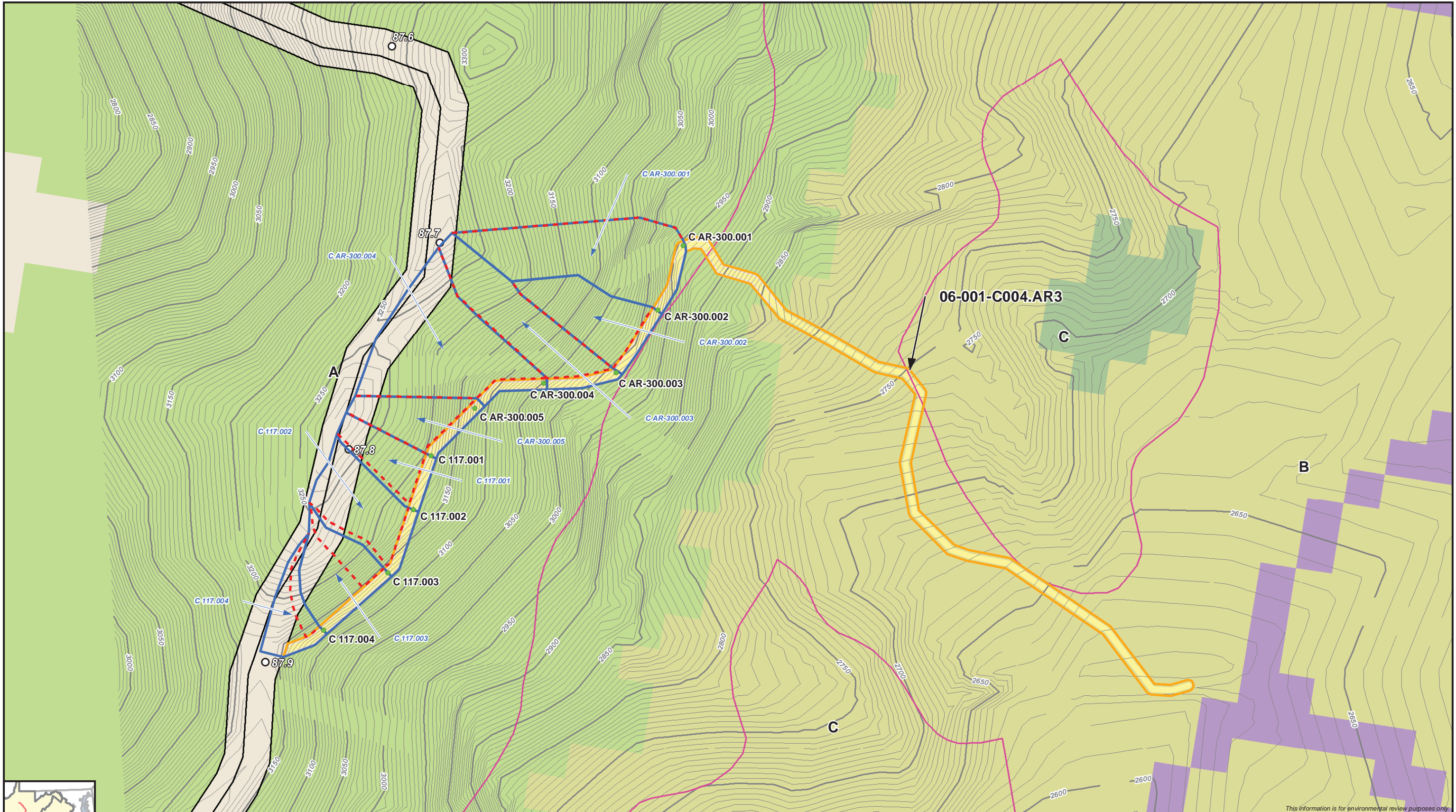


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Pre-Development Conditions

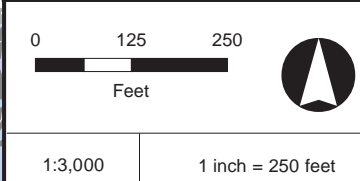
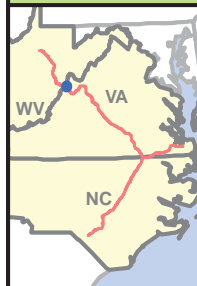


FIGURE 2.2

Culvert and Ditch Analysis Map Book for Permanent Access Roads, Post-
Development Conditions



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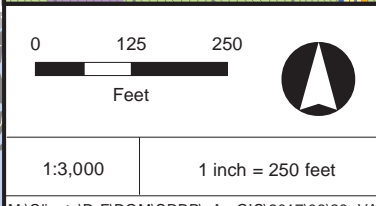
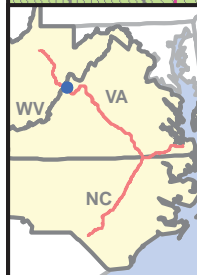
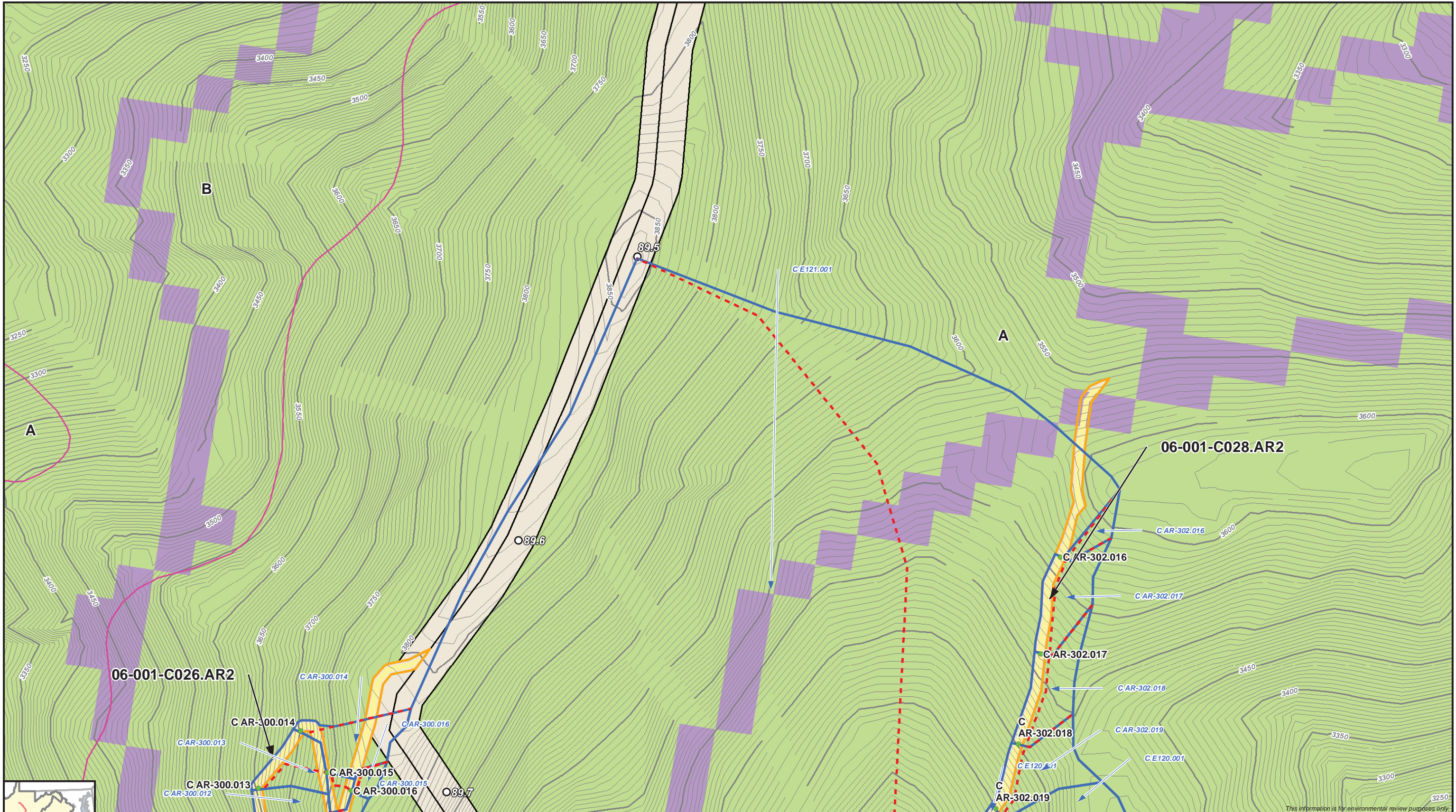


○ Milepost	--- Flow Path	Land Cover	Grassland
▭ Permanent Access Road ROW	— Major Contour	Agriculture	Gravel
▭ Pipeline ROW	— Minor Contour	Developed, Open Space	Shrub
▭ Culvert Drainage Area	Ⓜ Hydrologic Soil Group	Forest	
● Culvert			



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





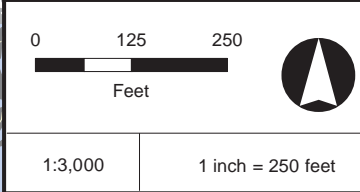
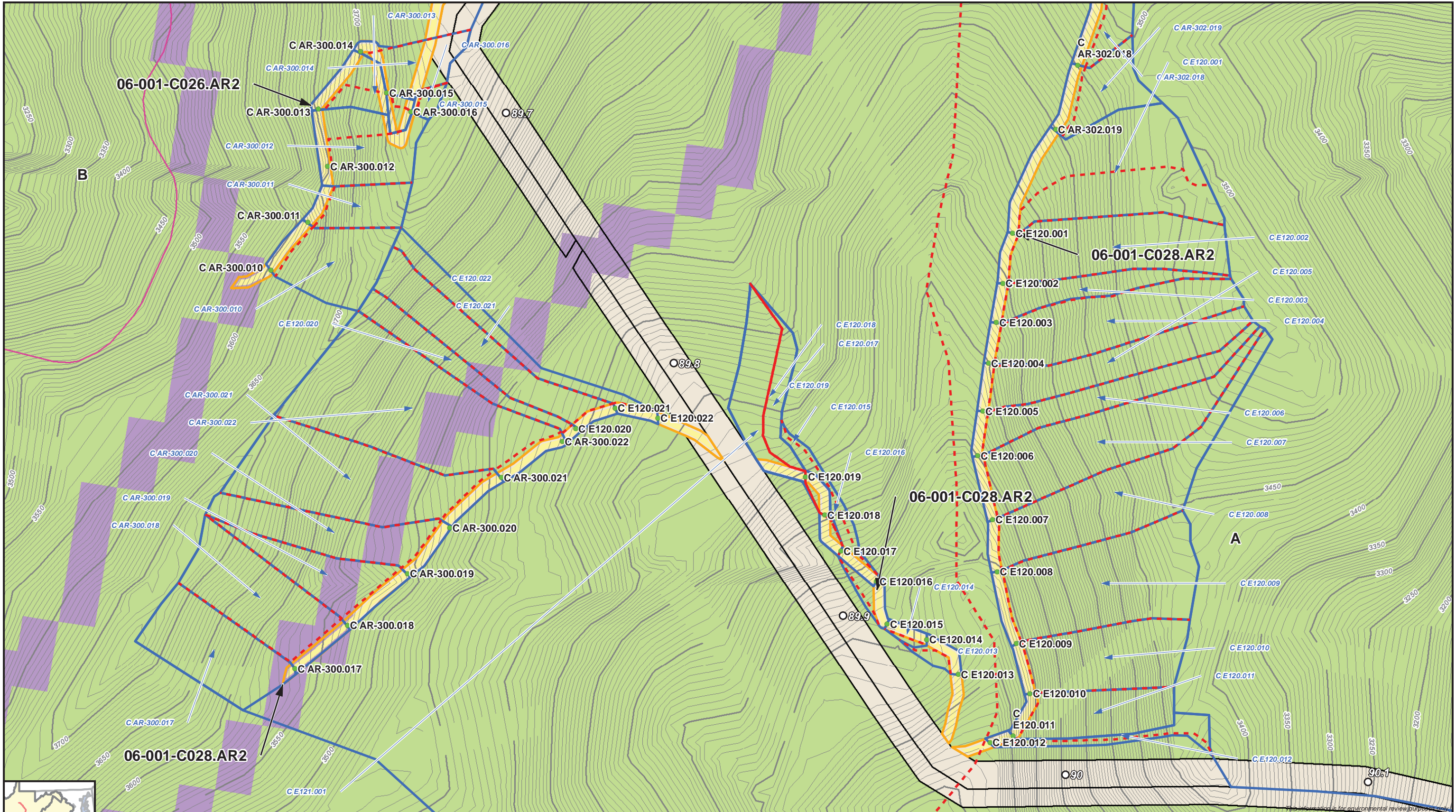
Milepost	Flow Path	Land Cover	Gravel
Permanent Access Road ROW	Major Contour	Developed, Open Space	Shrub
Pipeline ROW	Minor Contour	Forest	
Culvert Drainage Area	Hydrologic Soil Group		
Culvert			

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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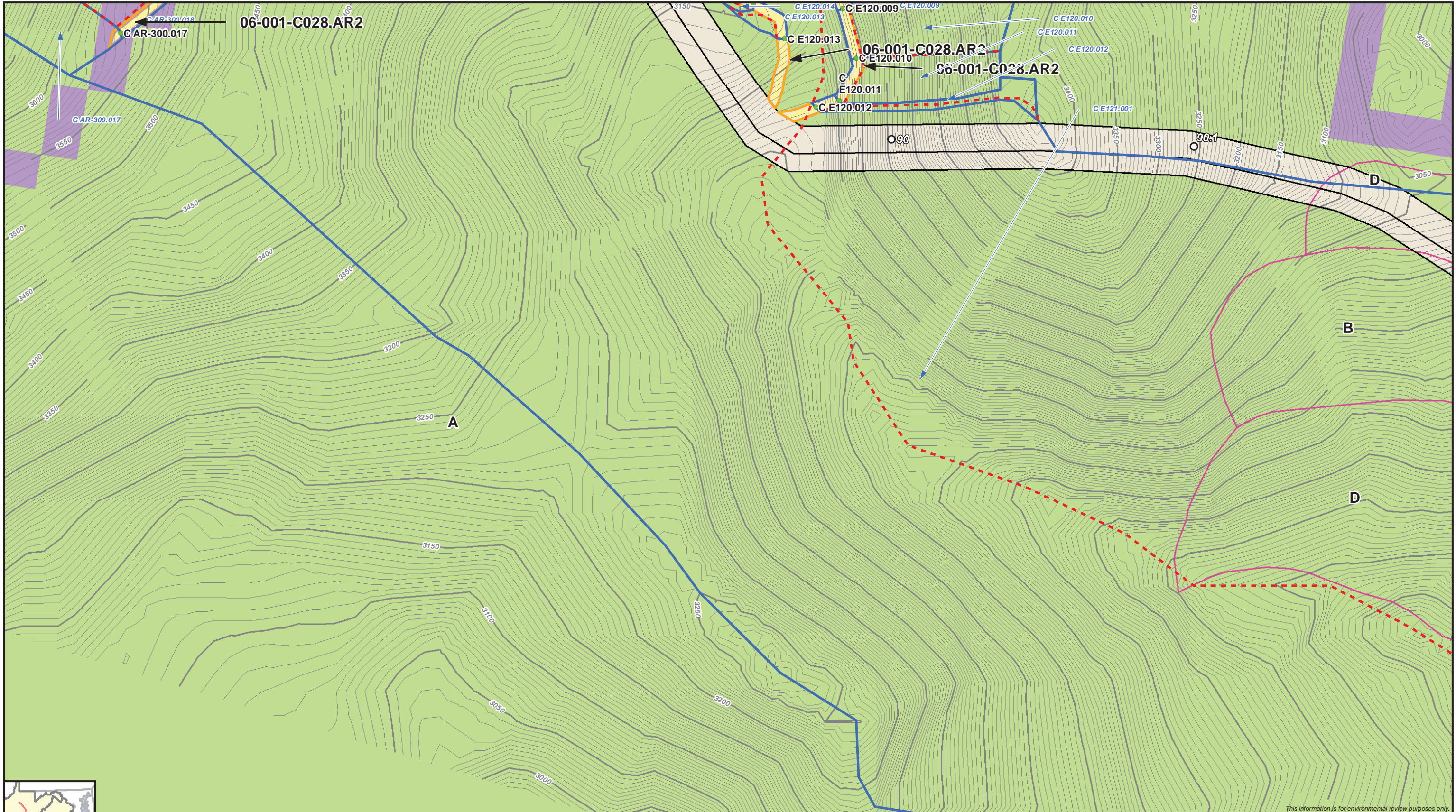
Milepost	Flow Path	Land Cover	Gravel
Permanent Access Road ROW	Major Contour	Developed, Open Space	Shrub
Pipeline ROW	Minor Contour	Forest	
Culvert Drainage Area	Hydrologic Soil Group		
Culvert			

Access Road Key →

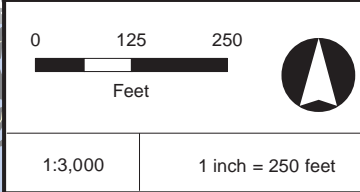


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

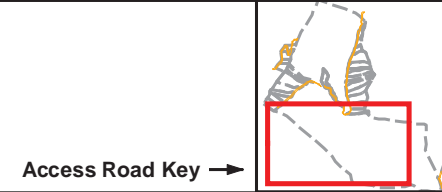
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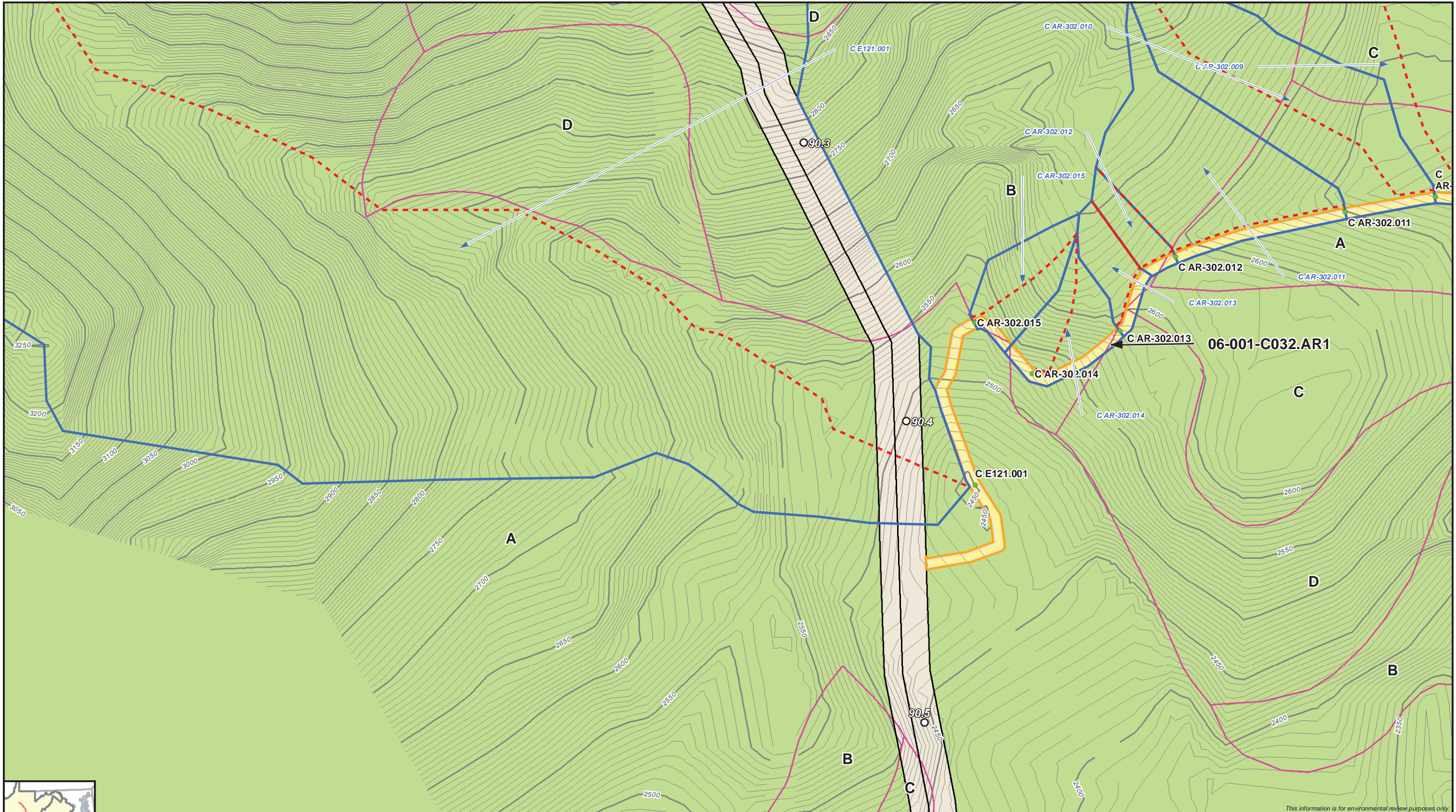


- | | | | |
|-----------------------------|-------------------------|-------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ■ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | ■ Shrub |
| ■ Pipeline ROW | — Minor Contour | ■ Forest | |
| ■ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

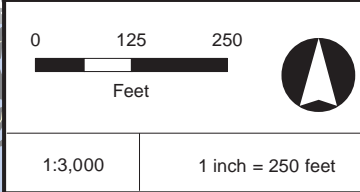


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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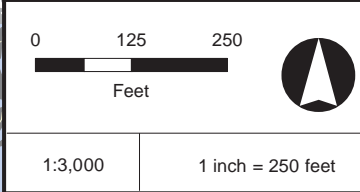
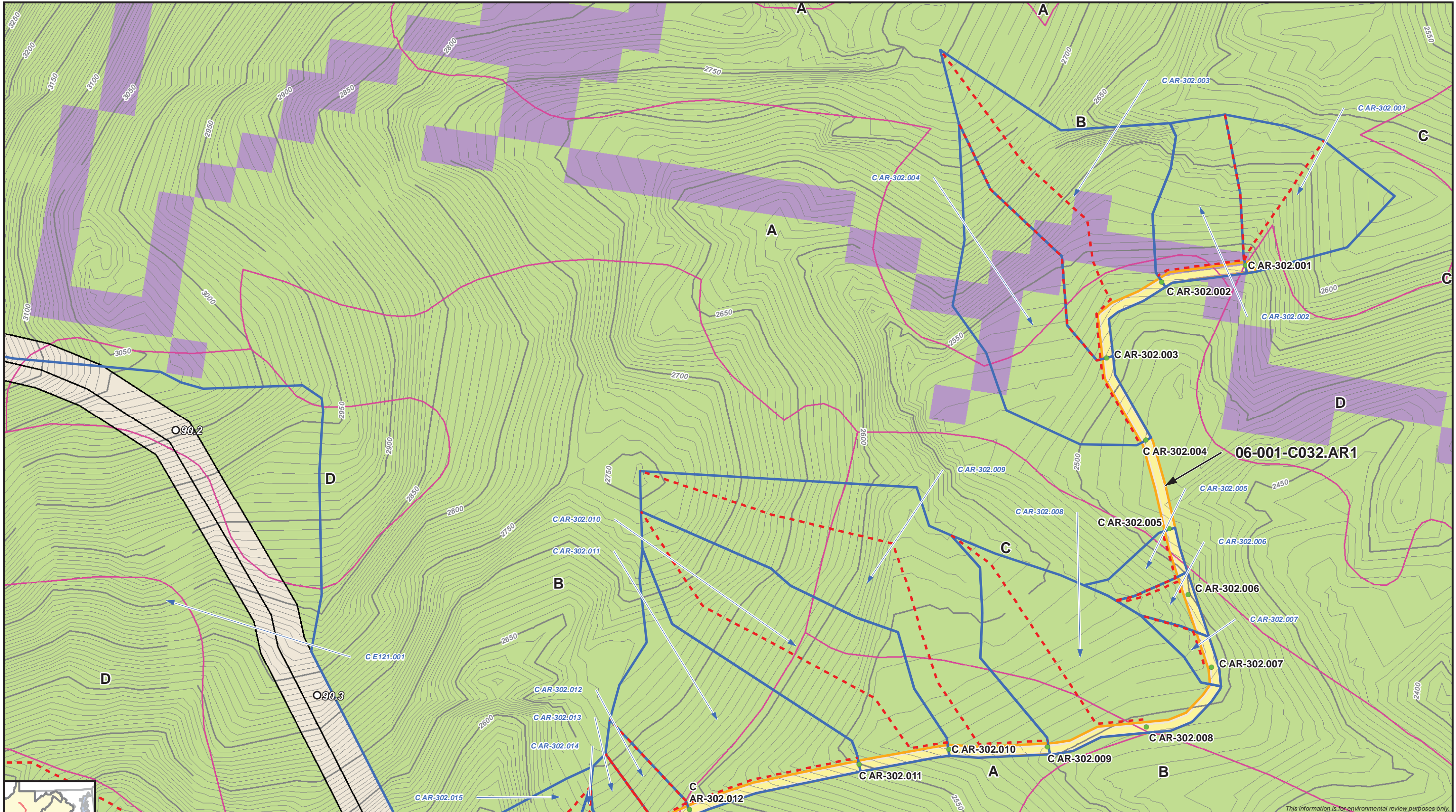
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|-----------------------------|-------------------------|-------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ■ Permanent Access Road ROW | — Major Contour | ■ Forest | ■ Shrub |
| ■ Pipeline ROW | — Minor Contour | | |
| ■ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |



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Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

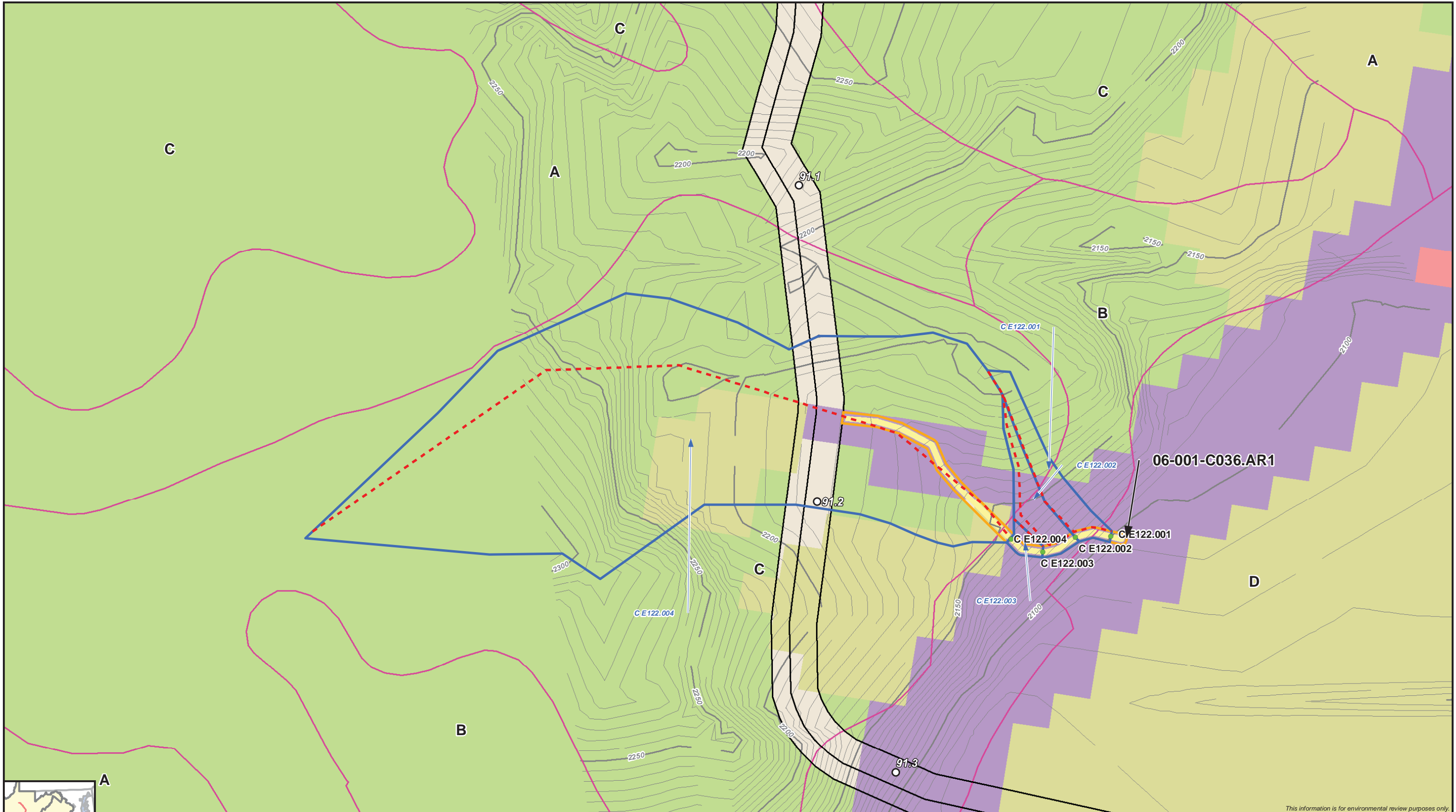
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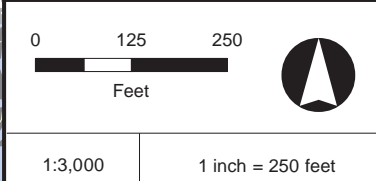
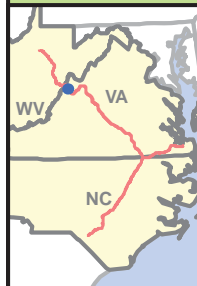
○ Milepost	--- Flow Path	Land Cover	■ Gravel
▭ Permanent Access Road ROW	— Major Contour	■ Developed, Open Space	■ Shrub
▭ Pipeline ROW	— Minor Contour	■ Forest	
▭ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			



**Virginia
Culvert and Ditch Analysis
Permanent Access Roads
Post-Development Conditions**



This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Forest
 - Agriculture
 - Developed, High Intensity
 - Developed, Open Space
 - Gravel
 - Shrub

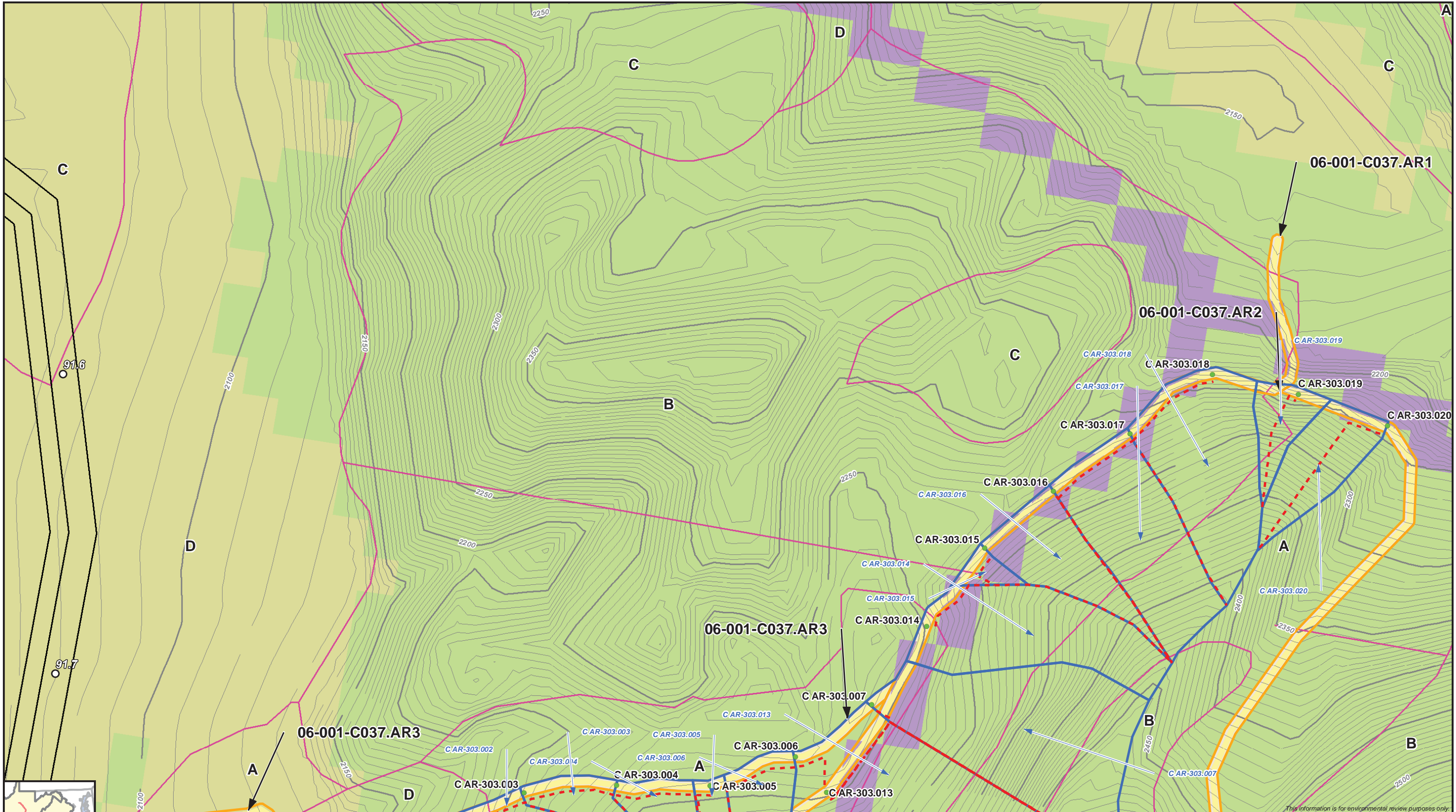
Access Road Key →



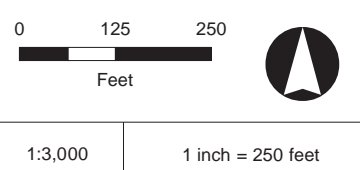
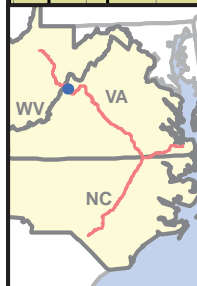
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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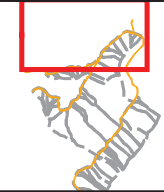
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

- ▭ Forest
- ▭ Gravel
- ▭ Shrub

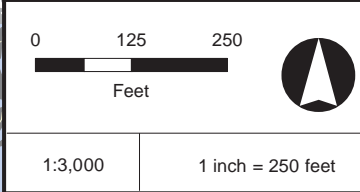
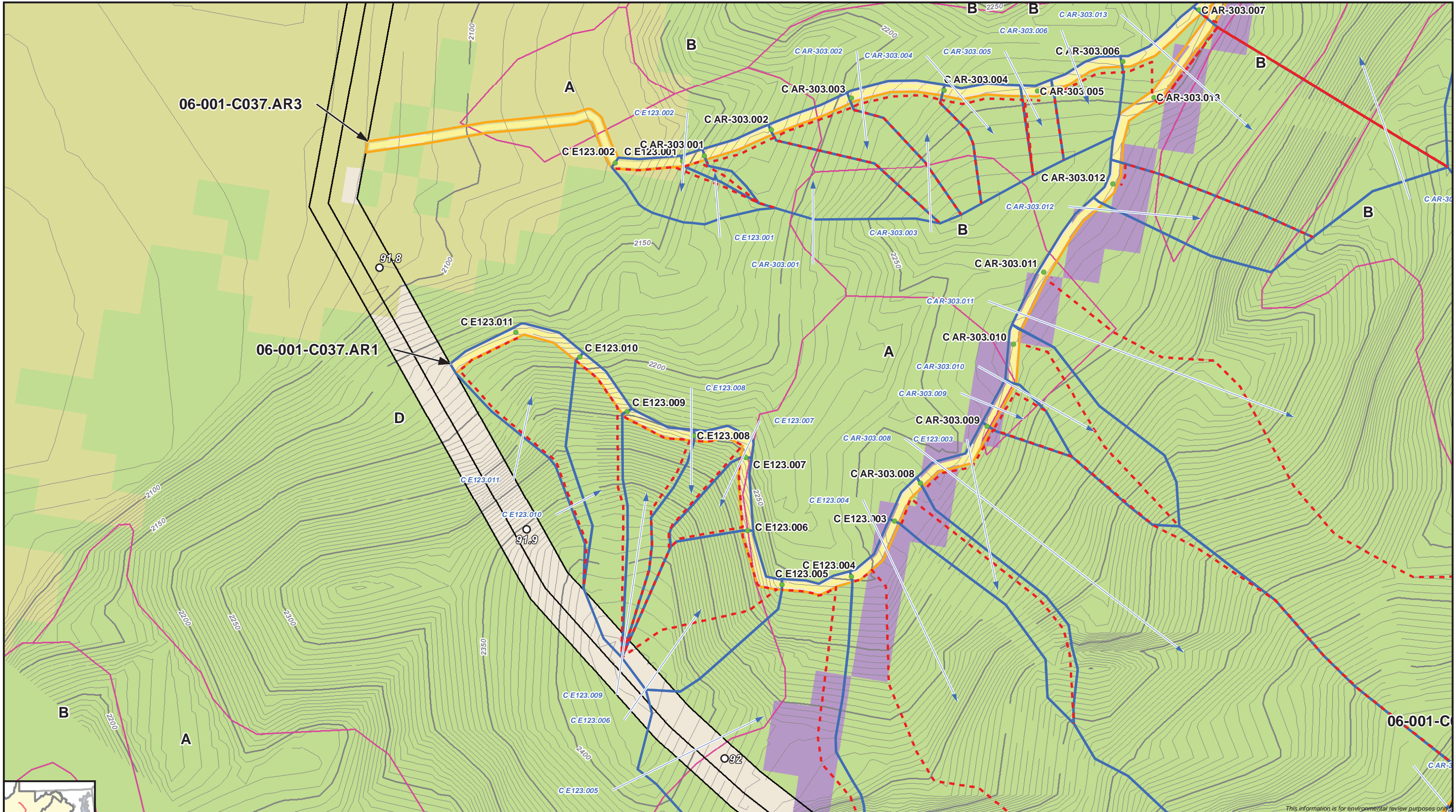
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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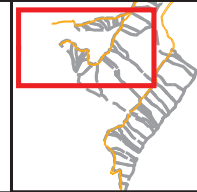


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

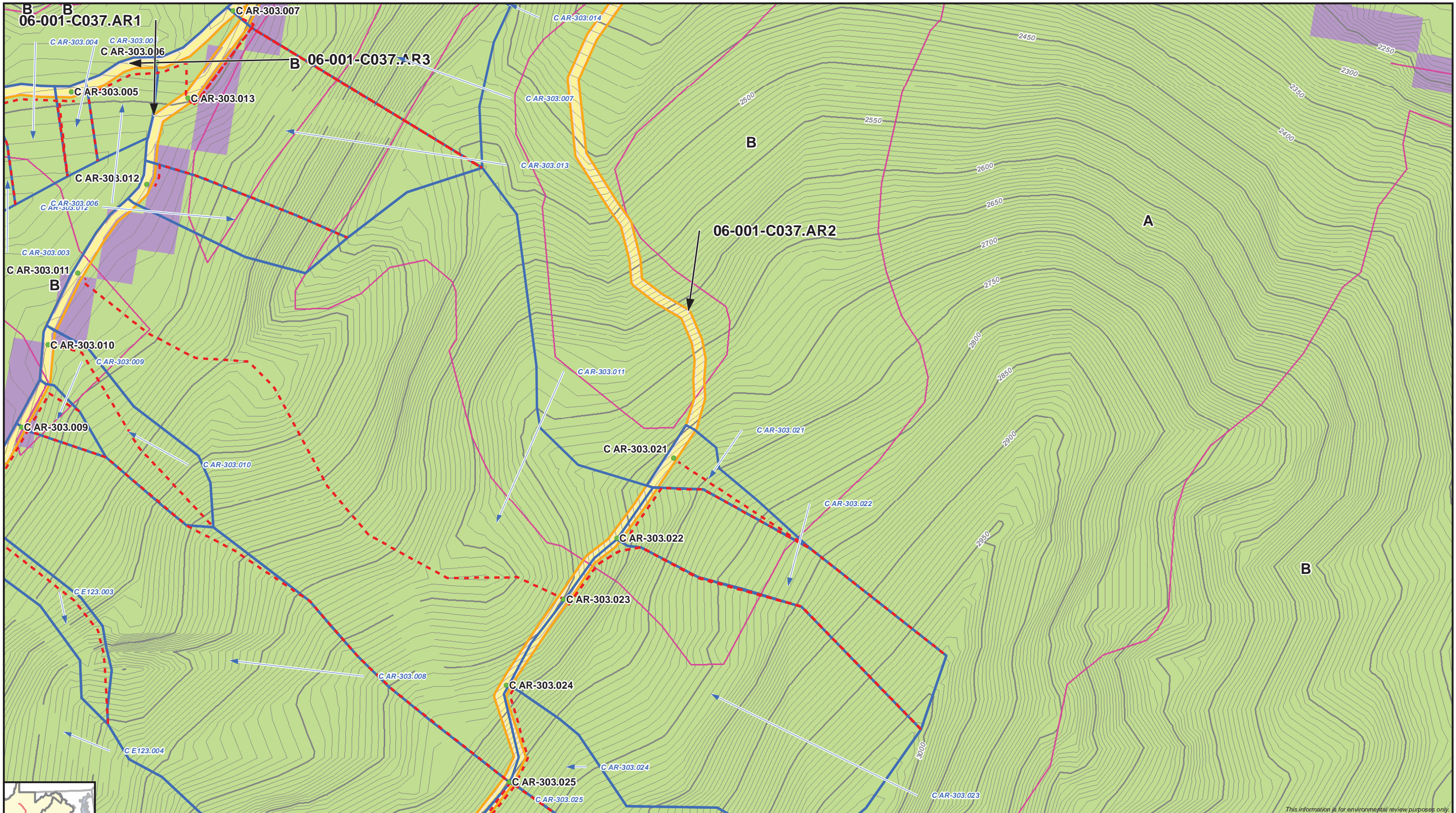
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →

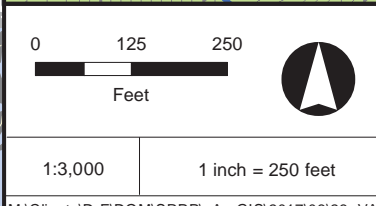
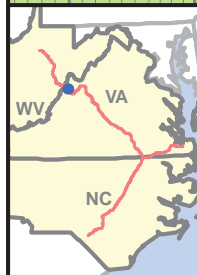


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

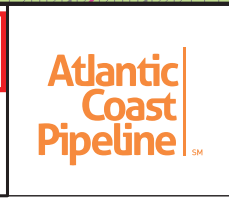
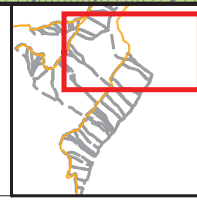
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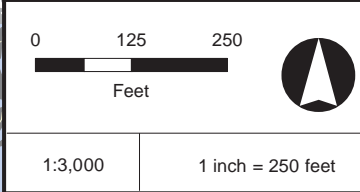
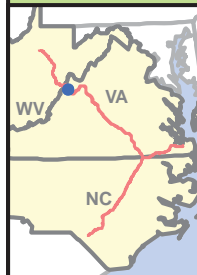
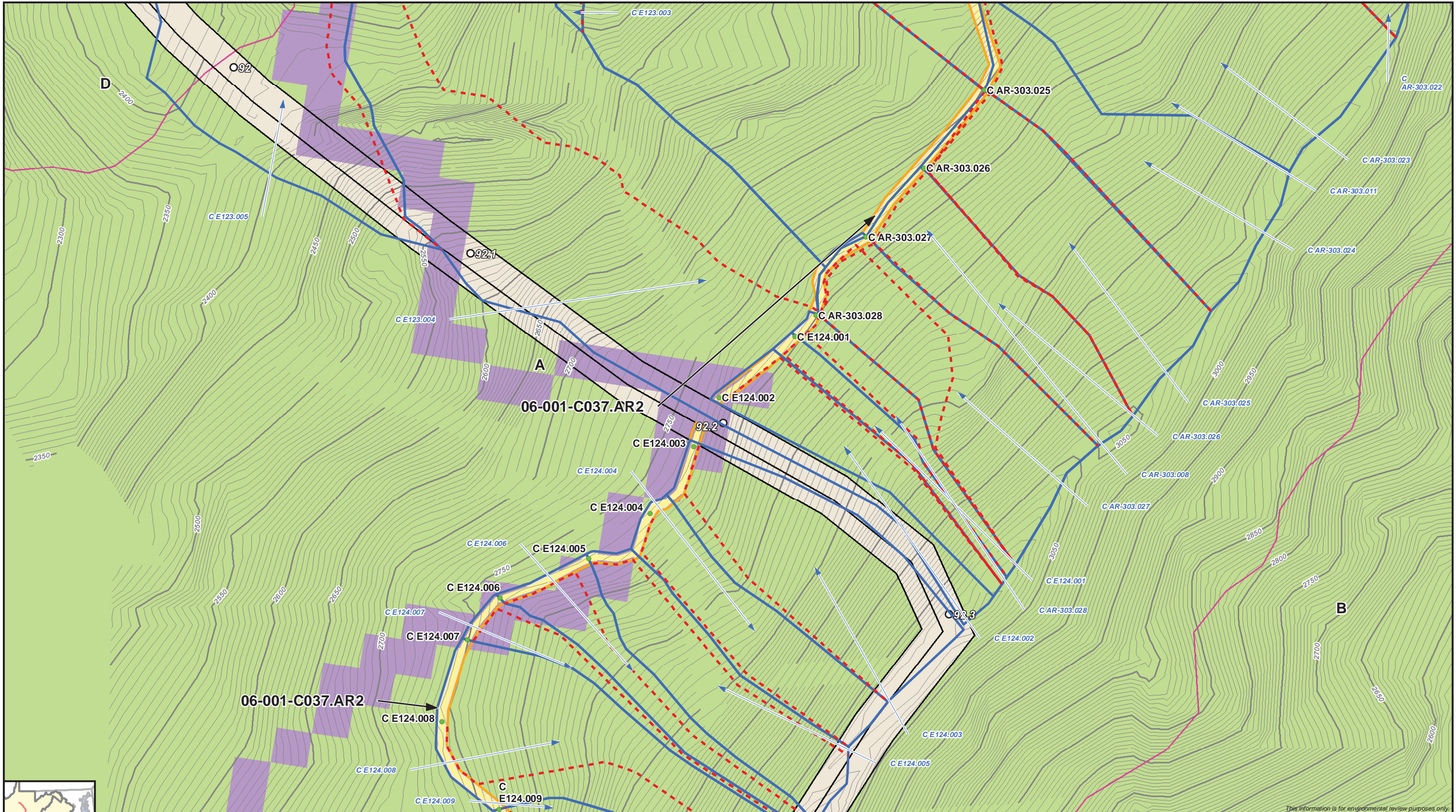
Permanent Access Road ROW	Flow Path	Land Cover	Gravel
Culvert Drainage Area	Major Contour	Developed, Open Space	Shrub
Culvert	Minor Contour	Forest	
	Hydrologic Soil Group		



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Virginia Culvert and Ditch Analysis Permanent Access Roads Post-Development Conditions

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- | | | | |
|-----------------------------|-------------------------|-------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | ■ Shrub |
| ▭ Pipeline ROW | — Minor Contour | ■ Forest | |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

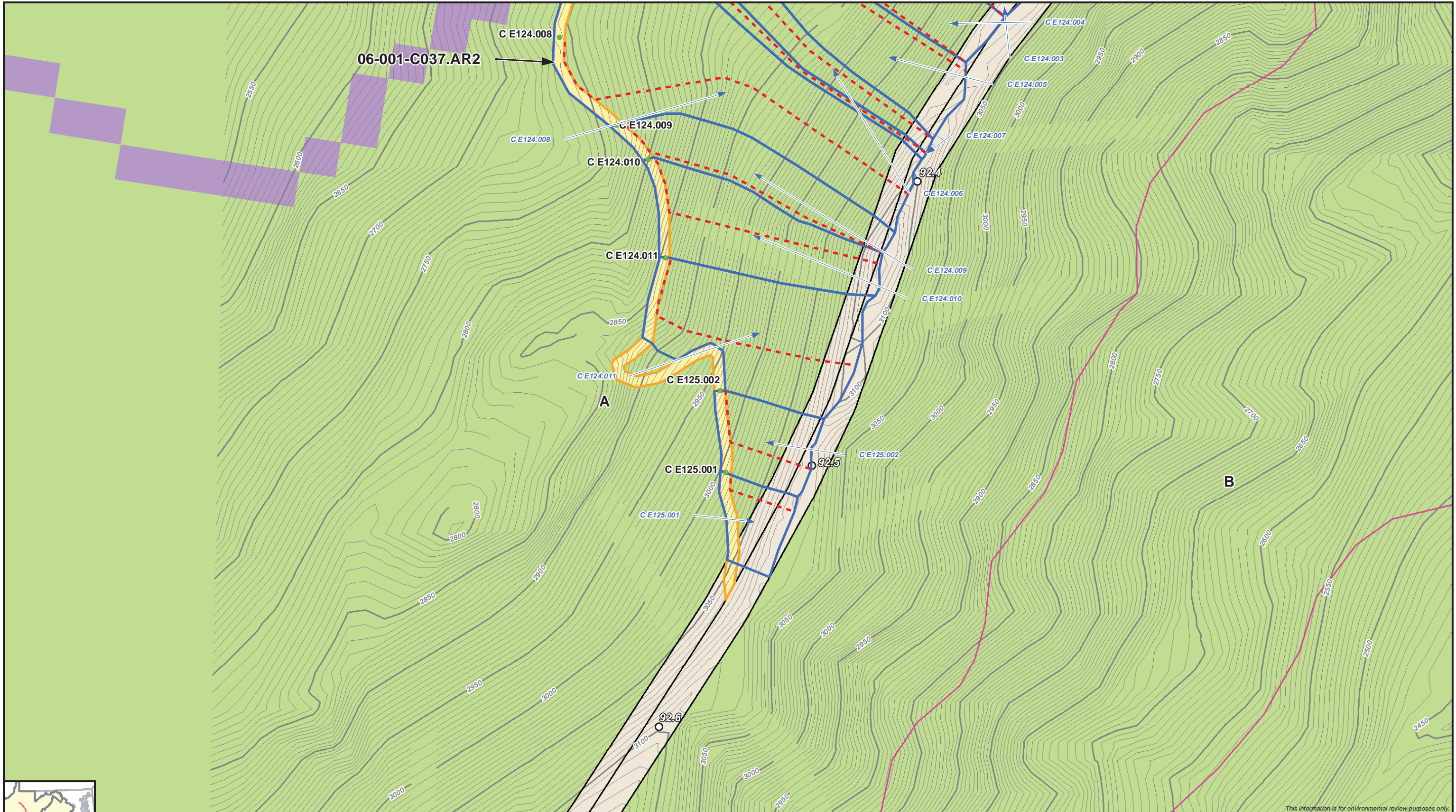
Access Road Key →



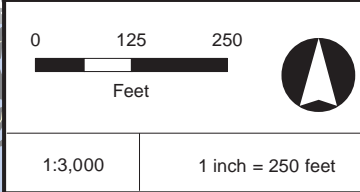
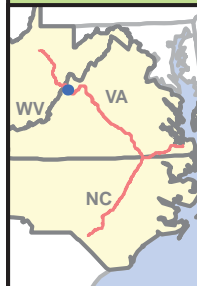
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

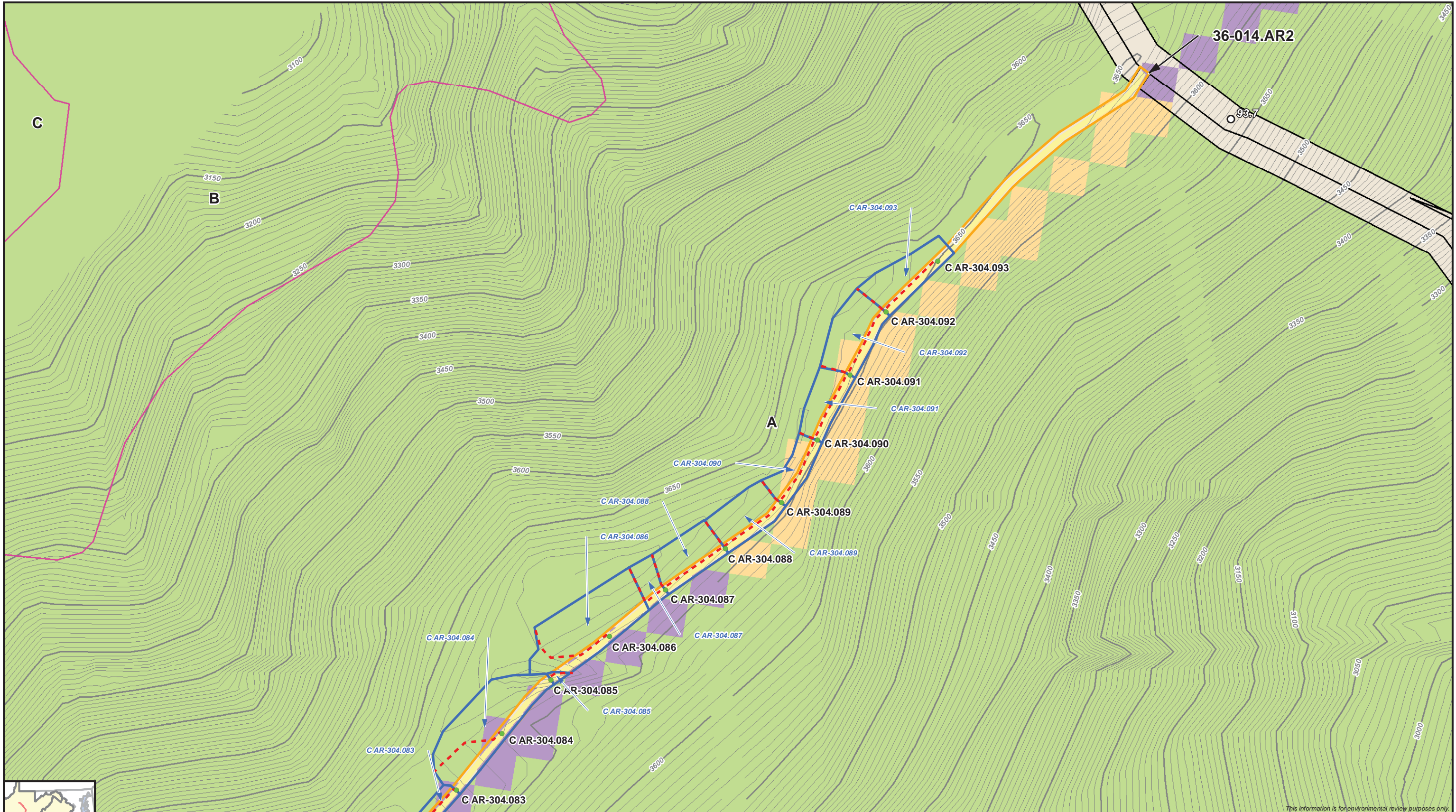
- Land Cover**
- ▭ Developed, Open Space
 - ▭ Forest

- ▭ Gravel
- ▭ Shrub

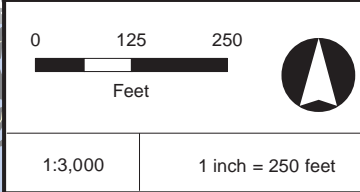
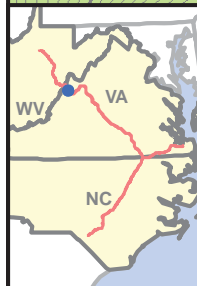


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

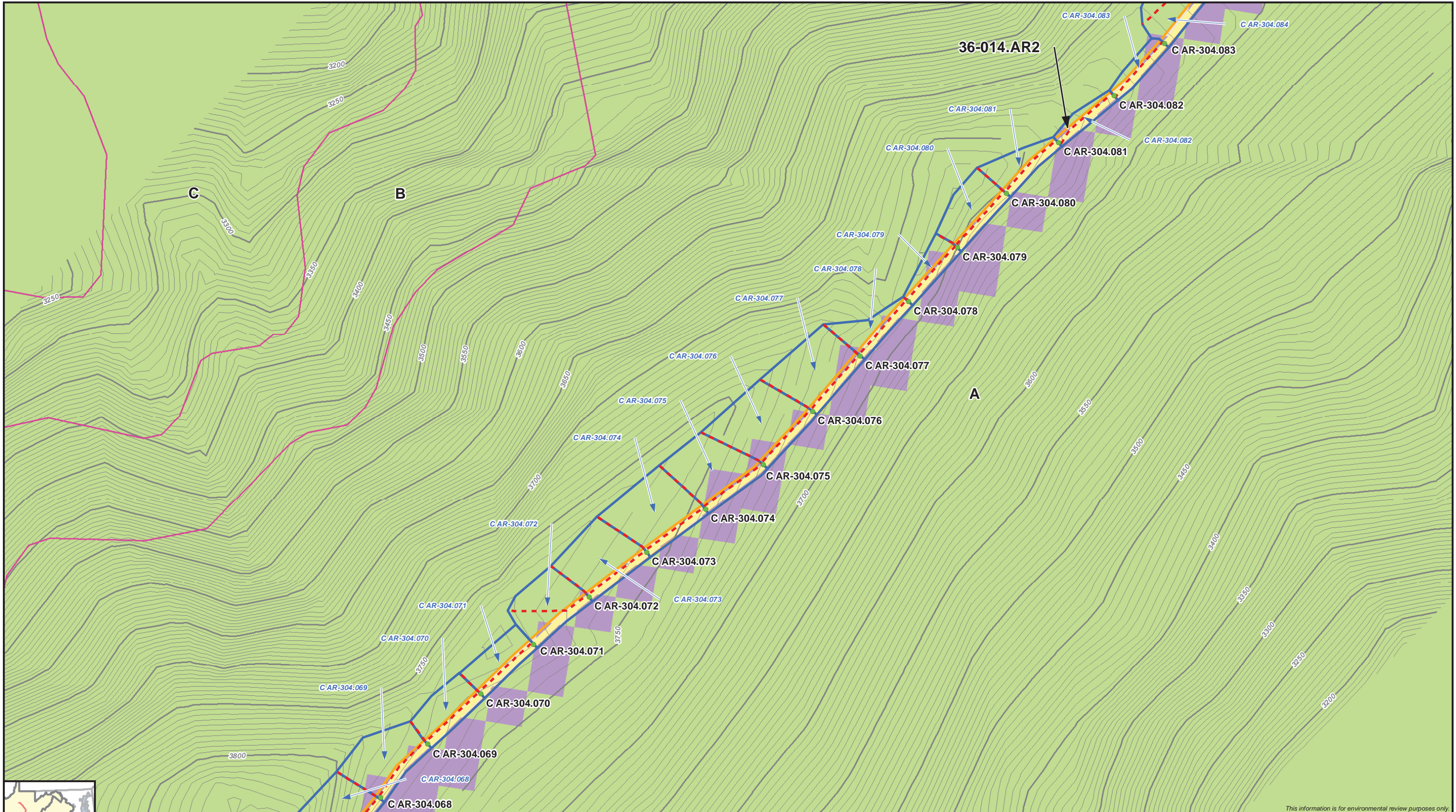
- Land Cover**
- ▭ Developed, Medium Intensity
 - ▭ Developed, Open Space

- ▭ Forest
- ▭ Gravel
- ▭ Shrub

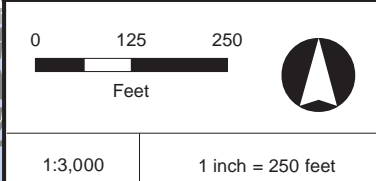


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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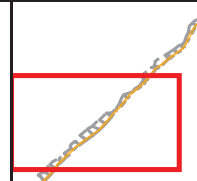
- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

- Land Cover**
- Developed, Open Space
 - Forest

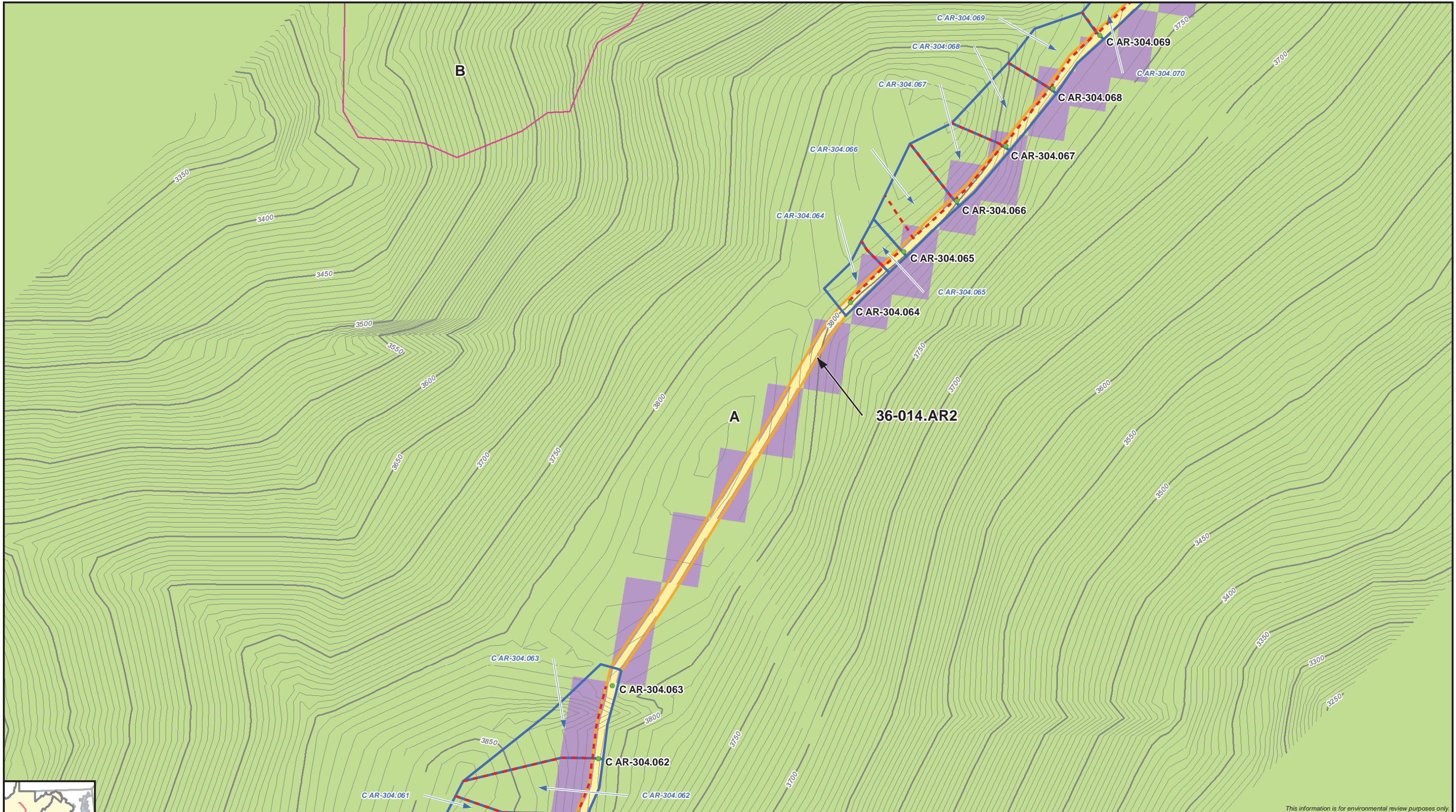
- Gravel
- Shrub

Access Road Key →

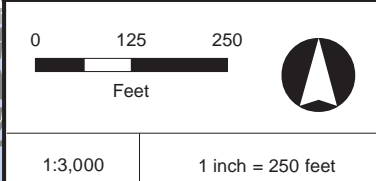
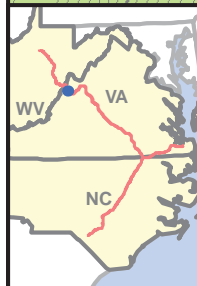


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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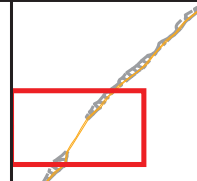
- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

- Land Cover**
- Developed, Open Space
 - Forest

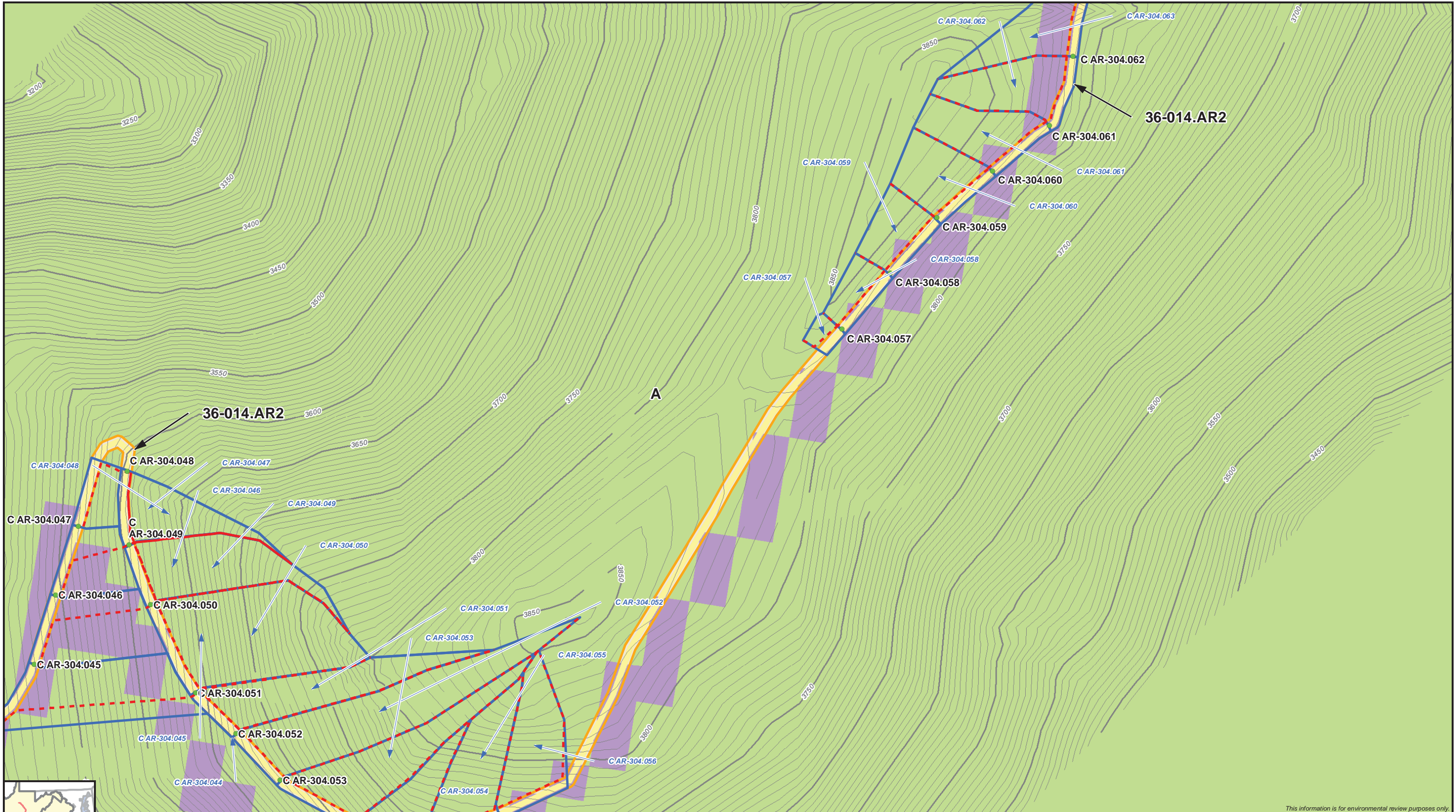
- Gravel
- Shrub

Access Road Key →

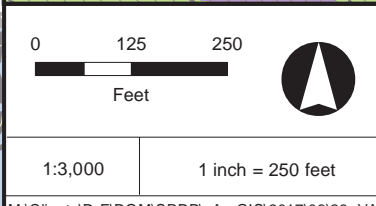
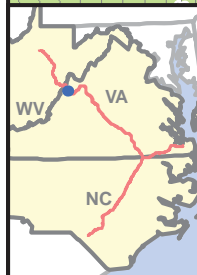


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

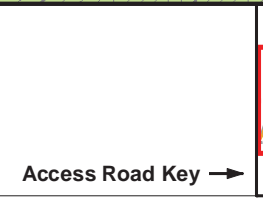




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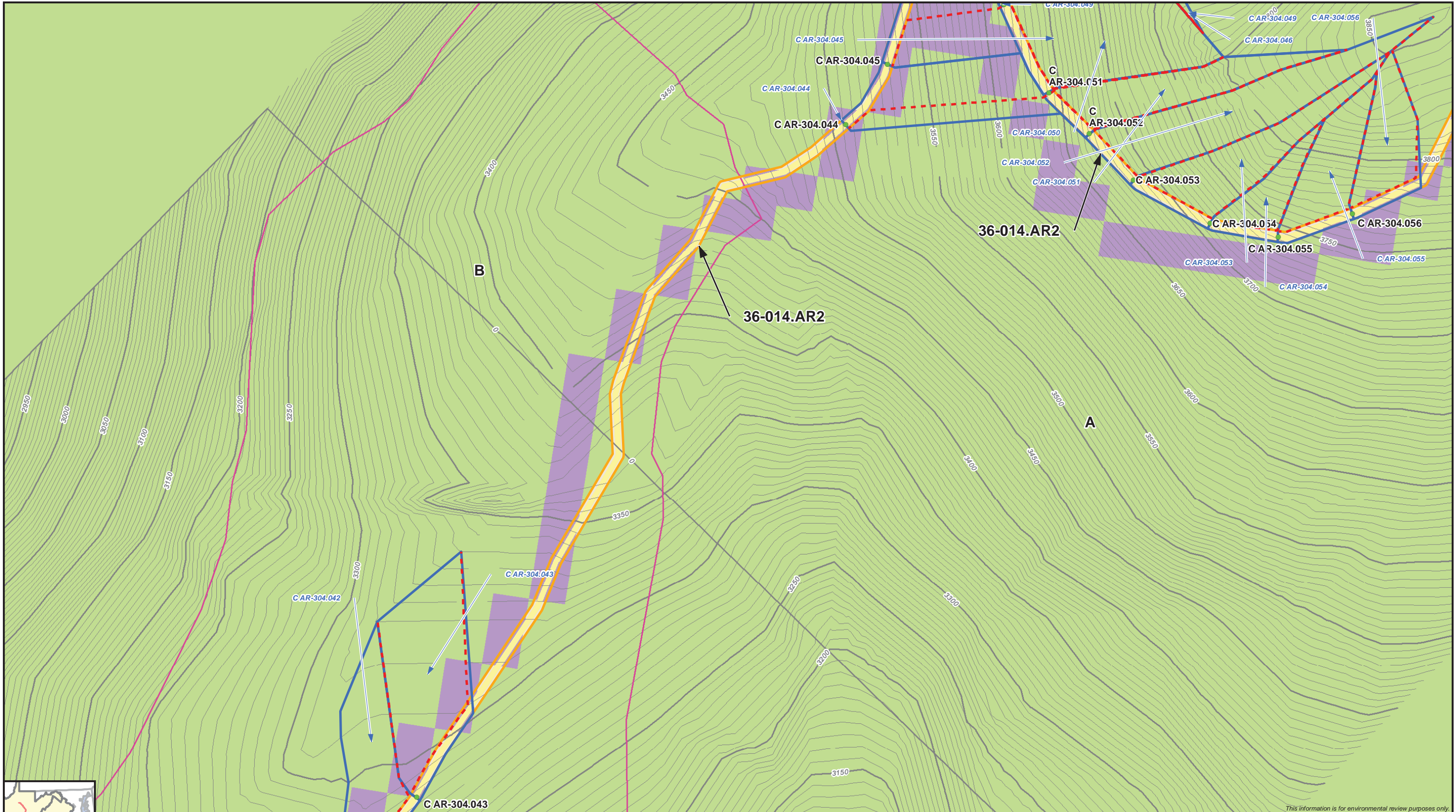


Permanent Access Road ROW	Flow Path	Land Cover	Gravel
Culvert Drainage Area	Major Contour	Developed, Open Space	Shrub
Culvert	Minor Contour	Forest	
	Hydrologic Soil Group		

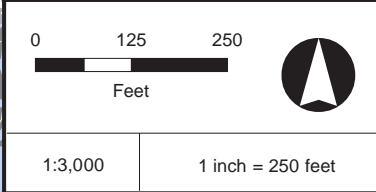


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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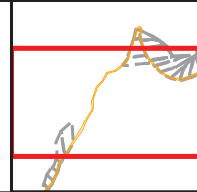
- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

- Gravel
- Shrub

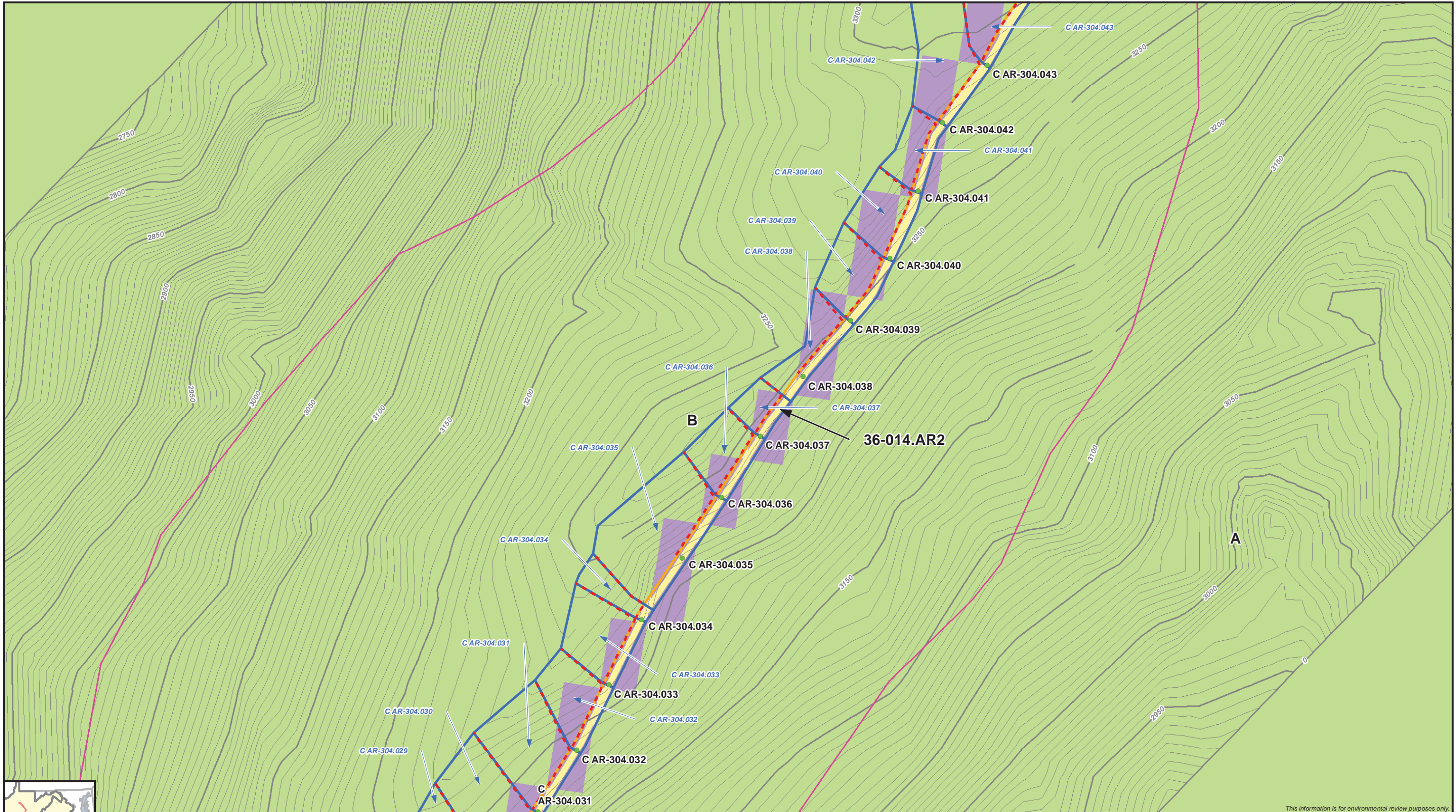
- Developed, Open Space
- Forest

Access Road Key →

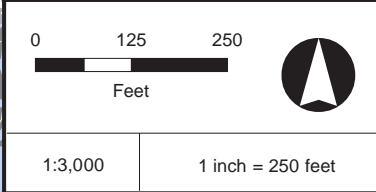


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





This information is for environmental review purposes only.



- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

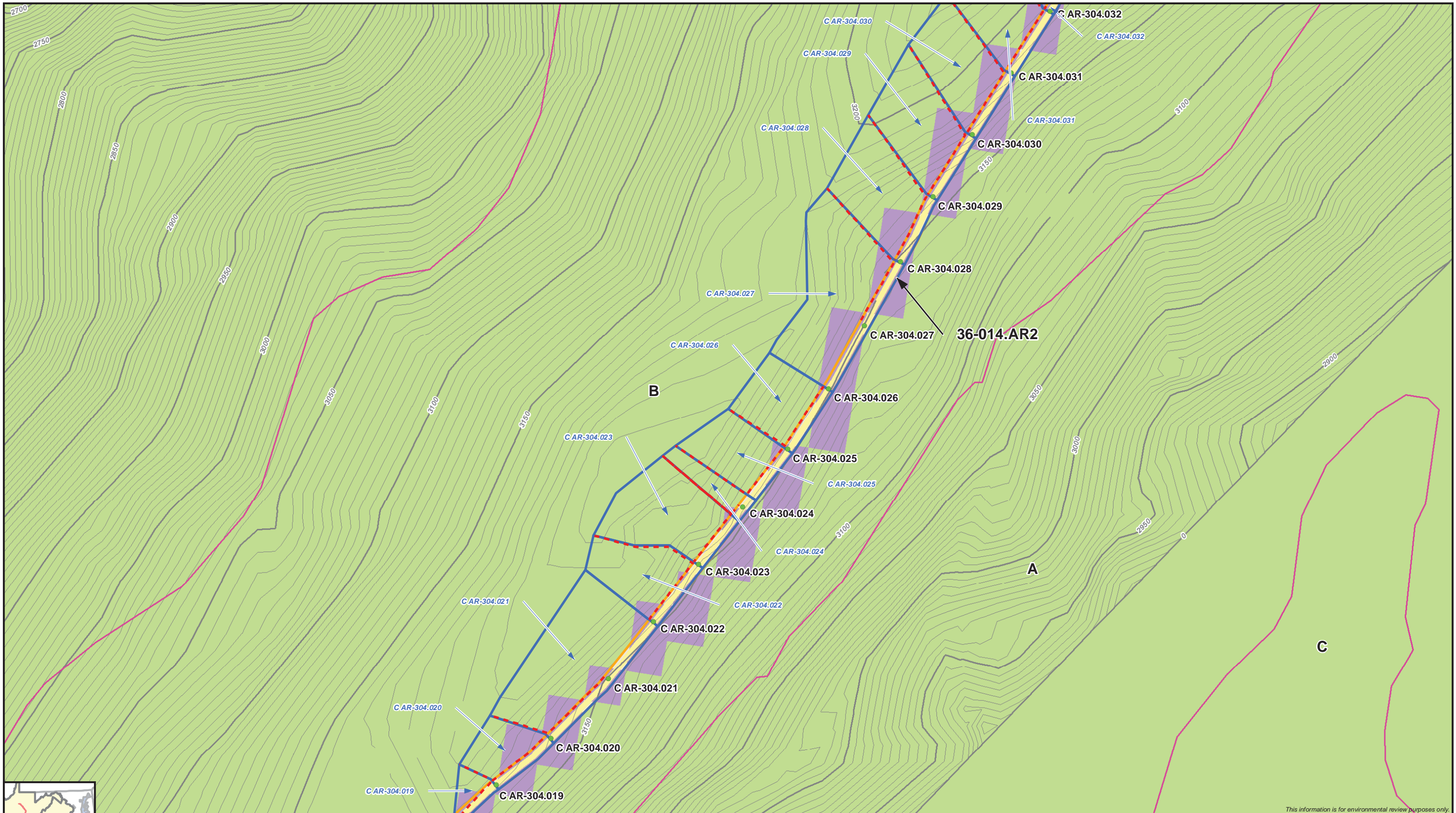
- Land Cover**
- Developed, Open Space
 - Forest

- Gravel
- Shrub

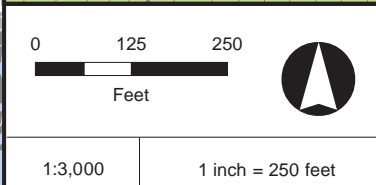


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



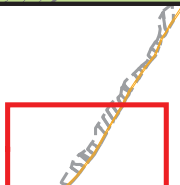


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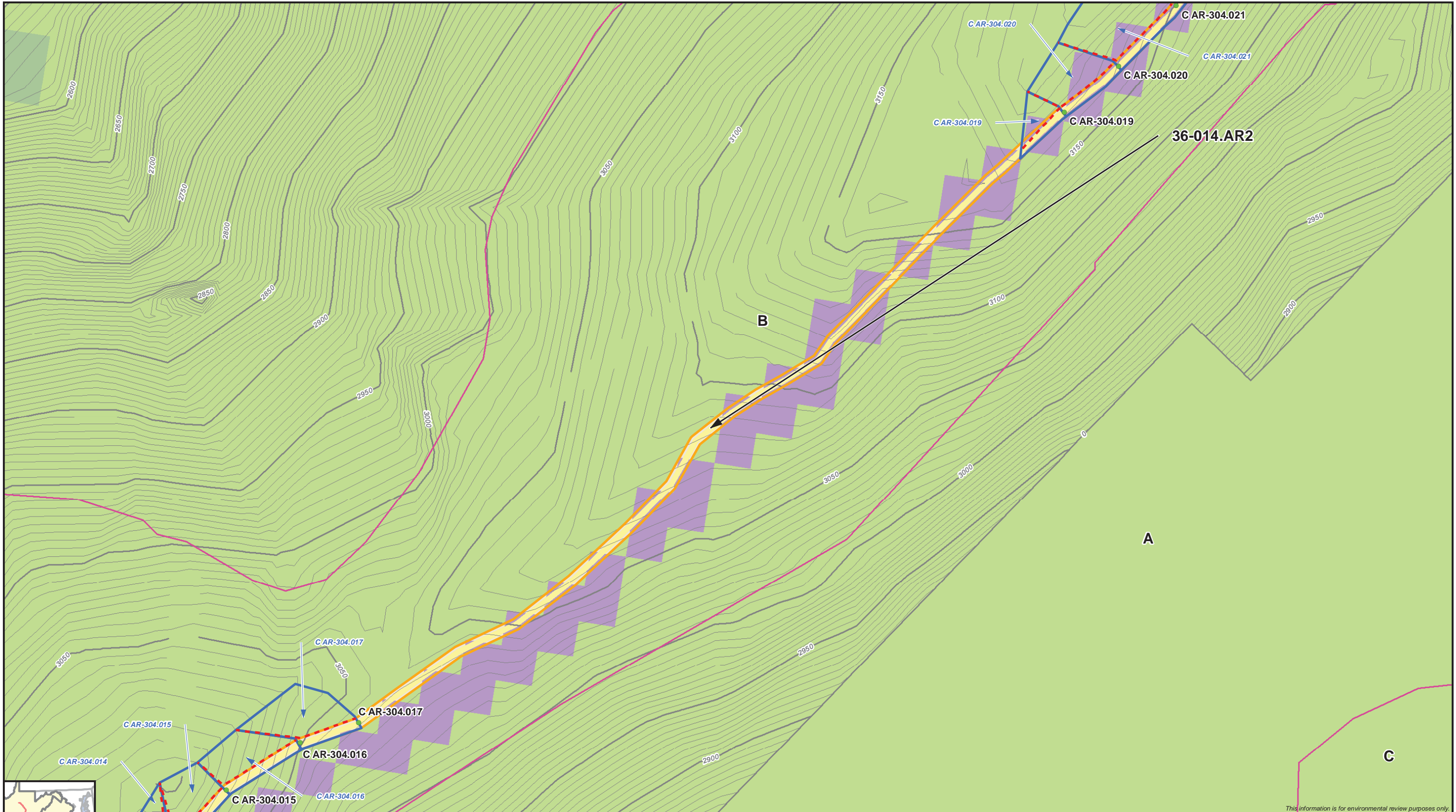
Permanent Access Road ROW	Flow Path	Land Cover	Gravel
Culvert Drainage Area	Major Contour	Developed, Open Space	Shrub
Culvert	Minor Contour	Forest	
Hydrologic Soil Group			

Access Road Key →

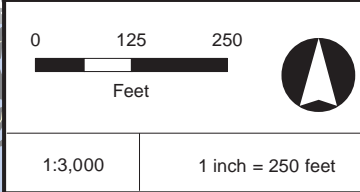


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Hydrologic Soil Group

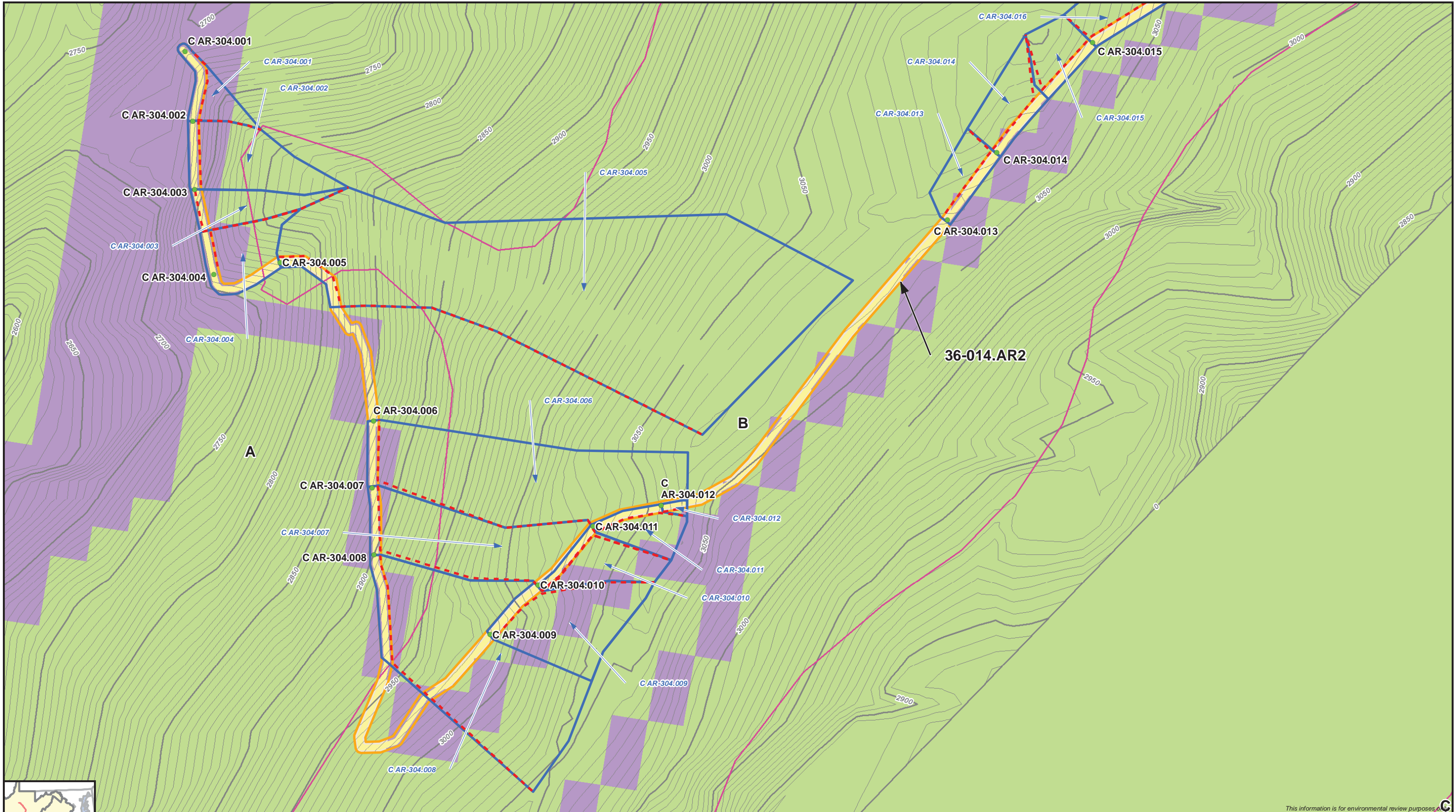
- Land Cover**
- Developed, Open Space
 - Forest
 - Grassland
 - Gravel
 - Shrub

Access Road Key →

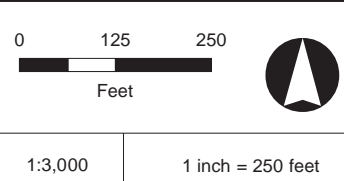


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- | | | | |
|---------------------------|-----------------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Gravel |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Shrub |
| Culvert | Minor Contour | Forest | |
| | Hydrologic Soil Group | | |

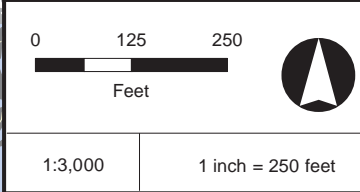
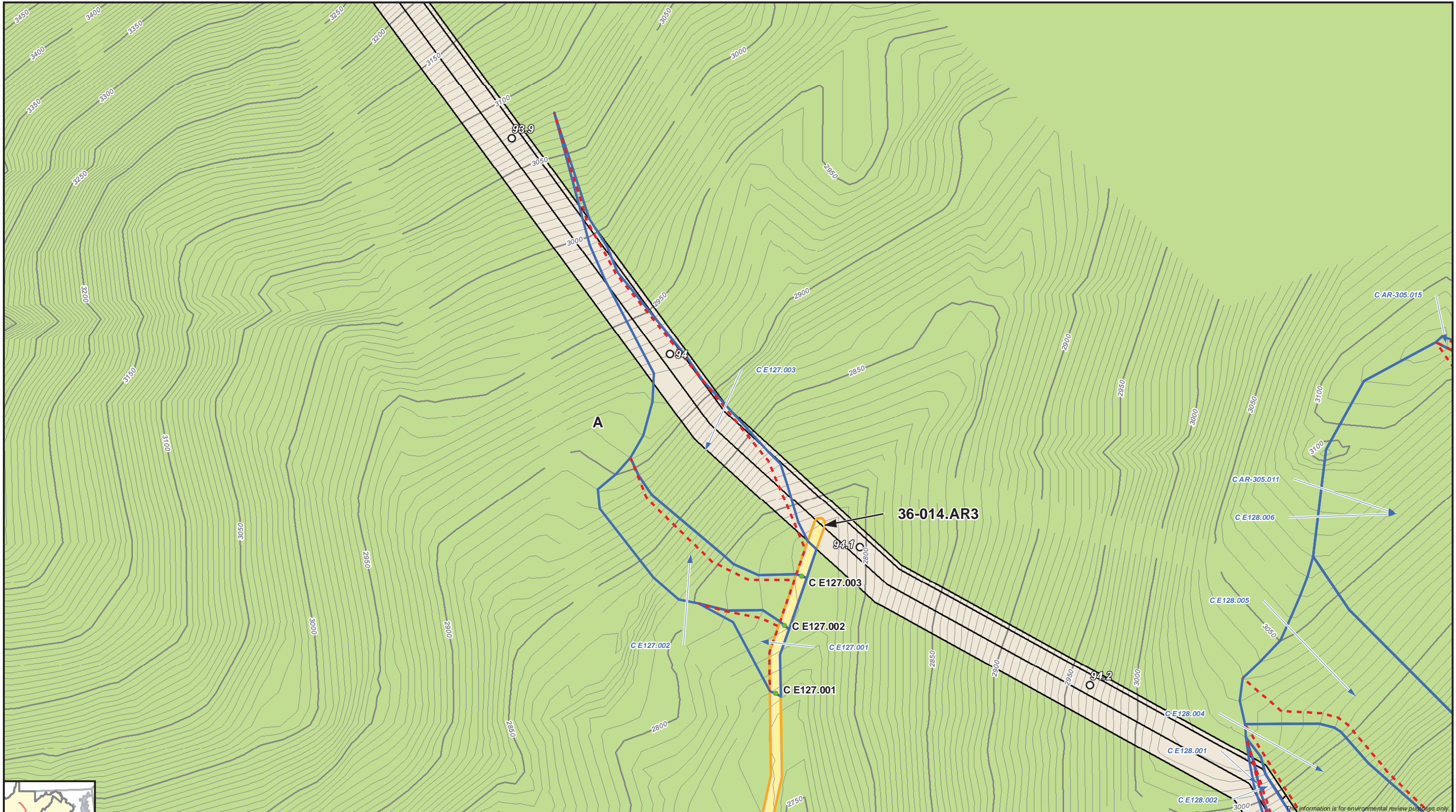
Access Road Key →



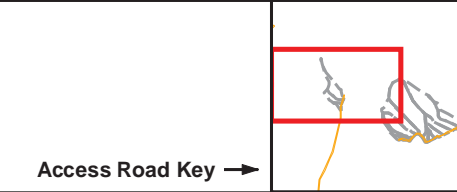
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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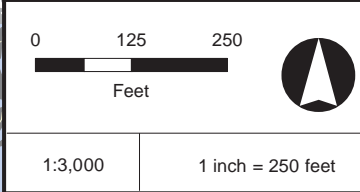
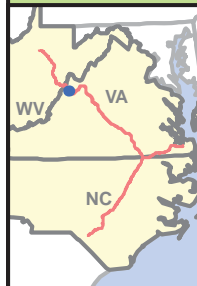
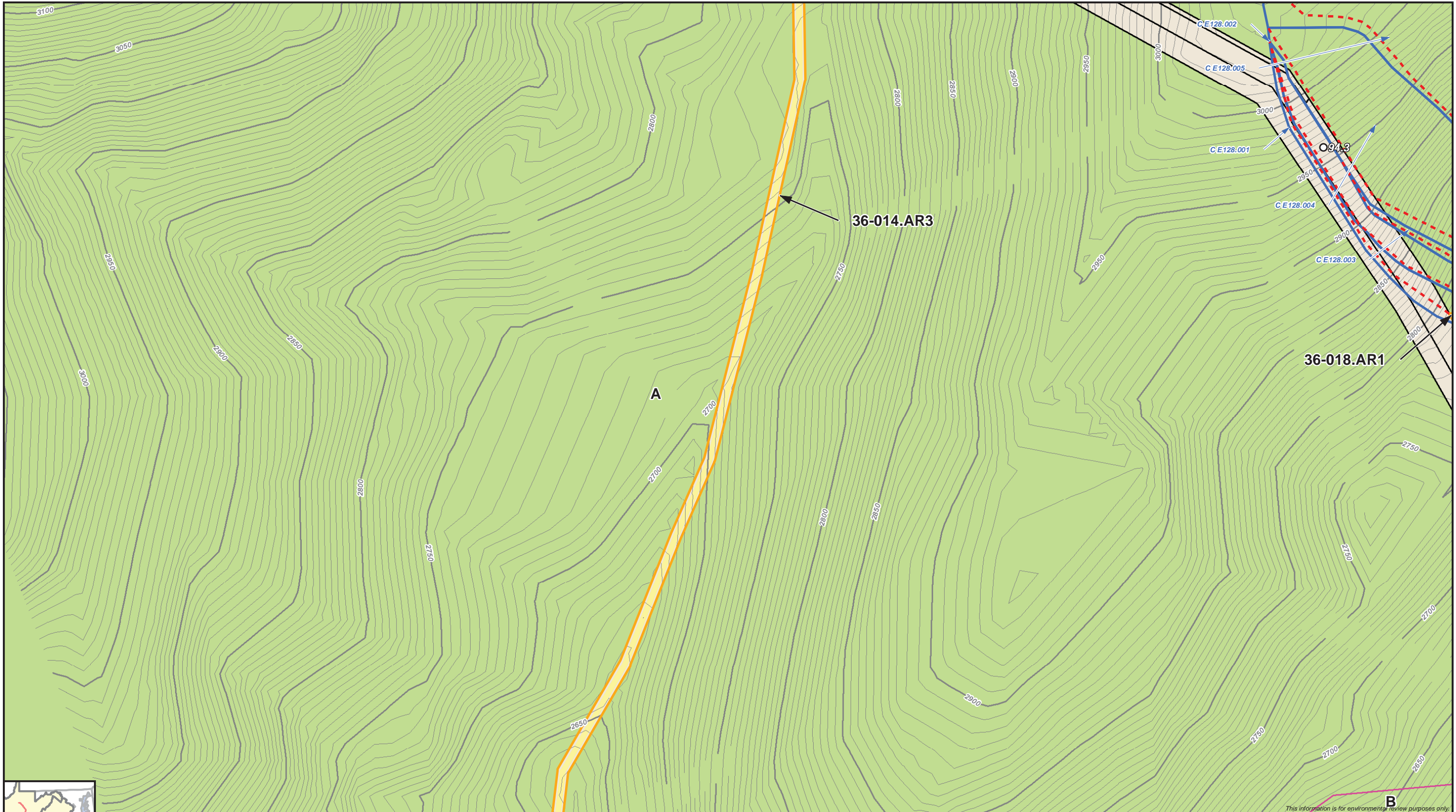


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group
- Land Cover**
- ▭ Forest
- ▭ Gravel
- ▭ Shrub

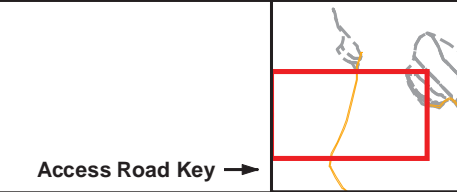


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



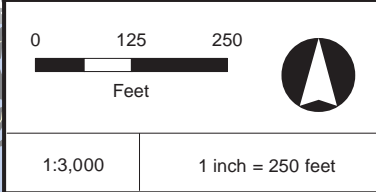
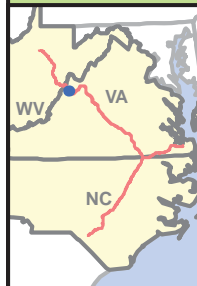
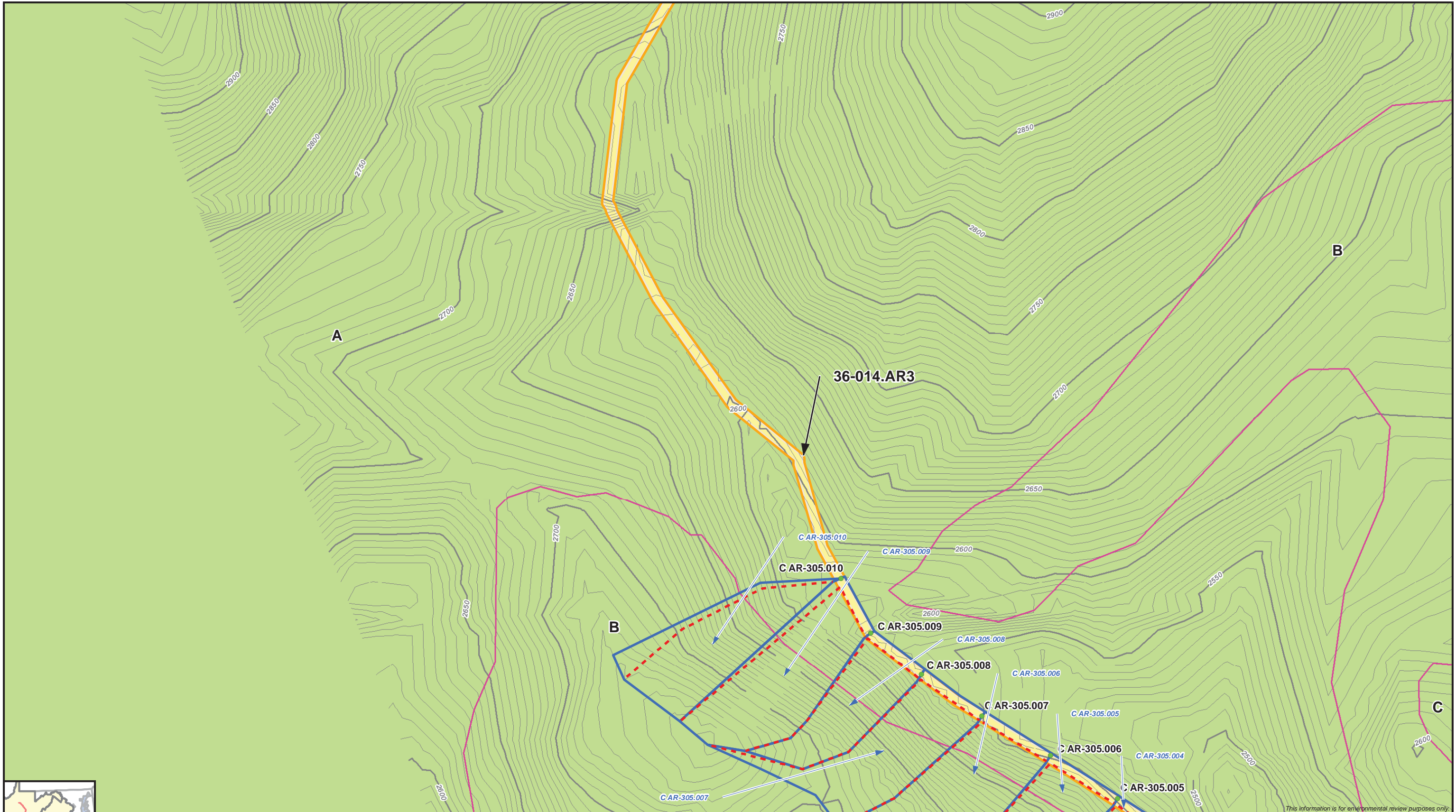


- | | | | |
|-----------------------------|-------------------------|-------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Forest | ■ Shrub |
| ▭ Pipeline ROW | — Minor Contour | | |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |



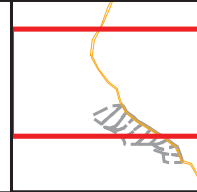
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





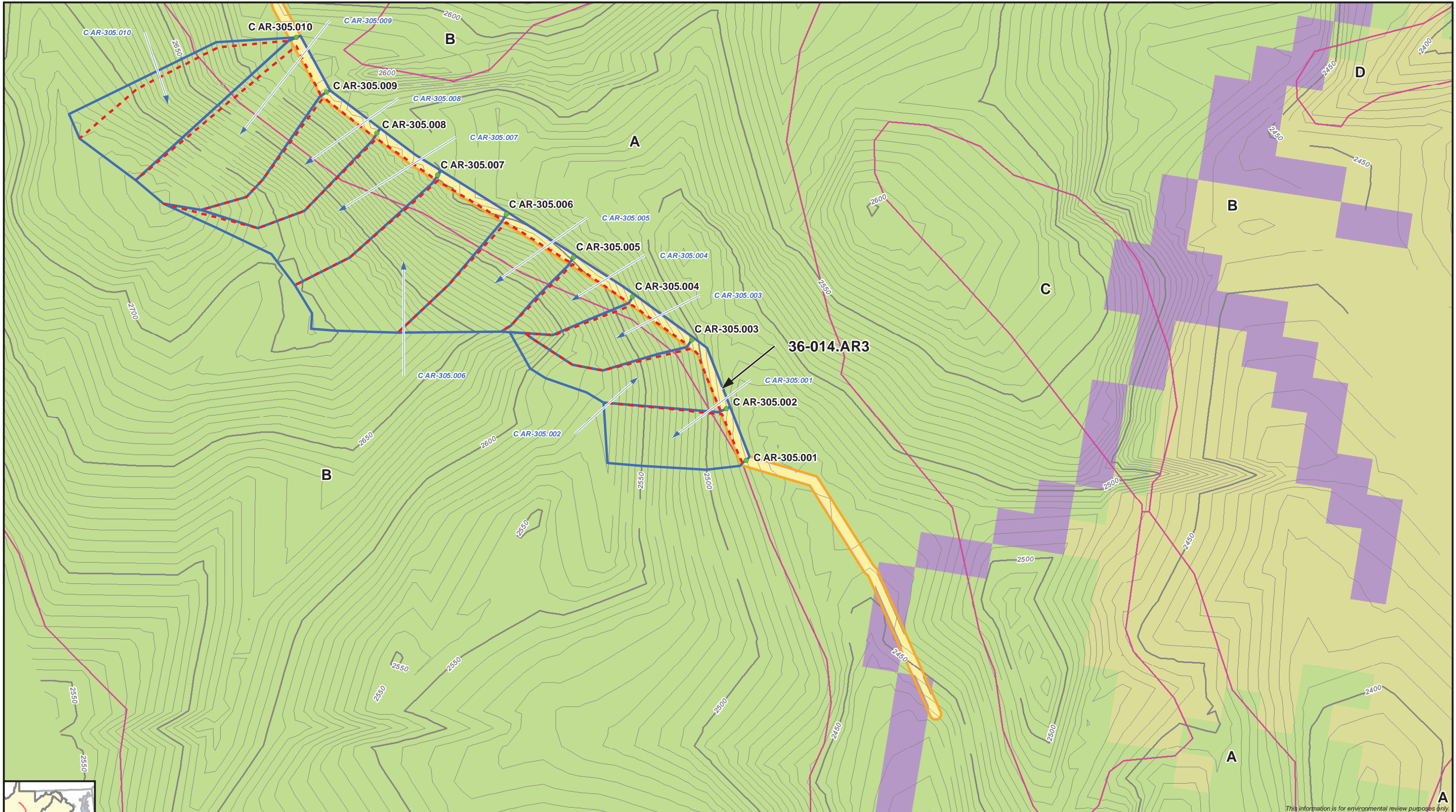
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|---------------------------|-----------------------|-------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Gravel |
| Culvert Drainage Area | Major Contour | Forest | Shrub |
| Culvert | Minor Contour | | |
| | Hydrologic Soil Group | | |

Access Road Key →

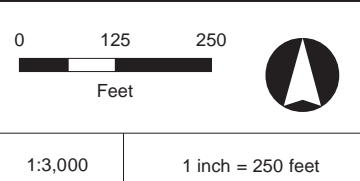
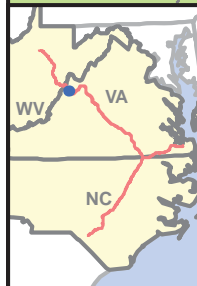


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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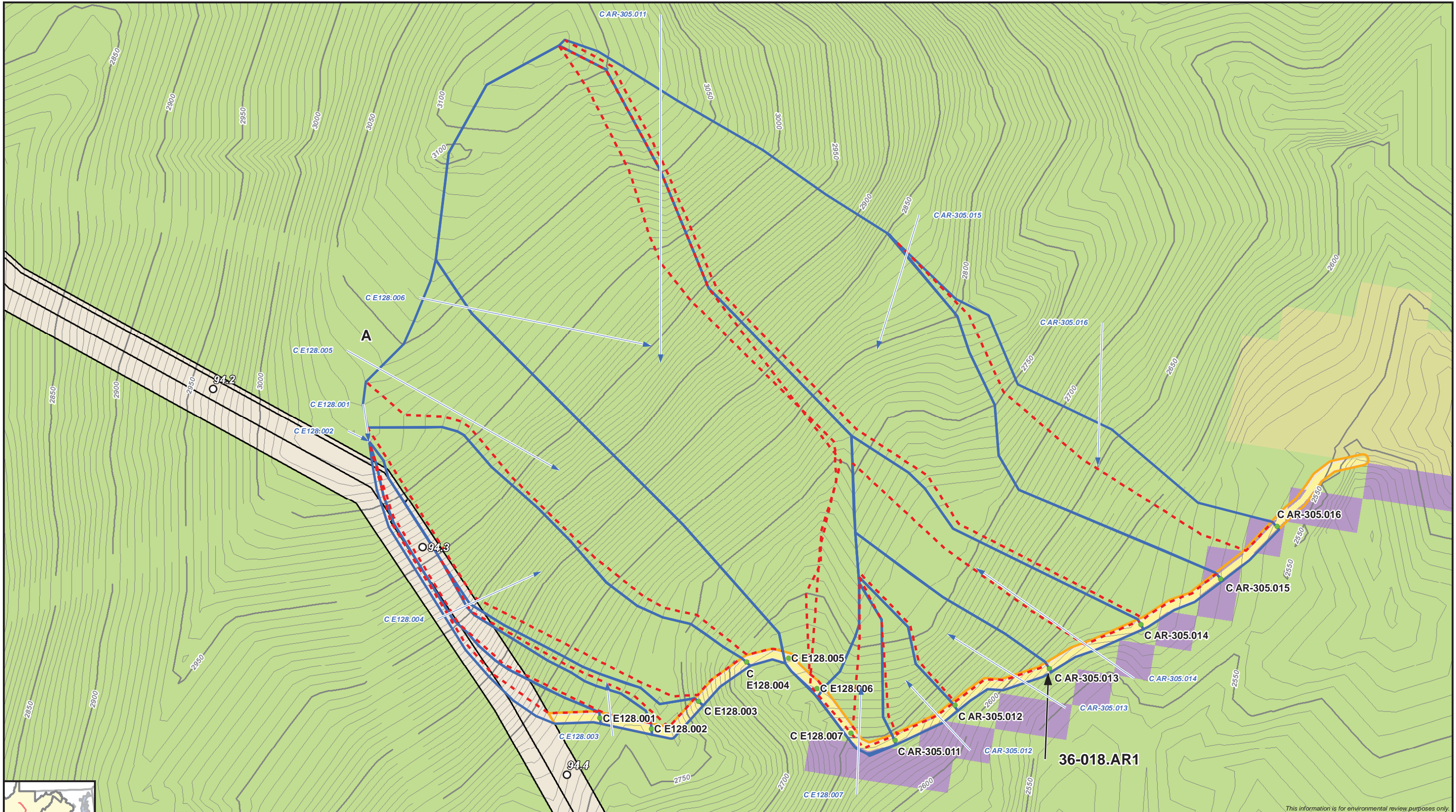
- | | | | |
|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Forest |
| Culvert Drainage Area | Major Contour | Agriculture | Gravel |
| Culvert | Minor Contour | Developed, Open Space | Shrub |
| Hydrologic Soil Group | | | |



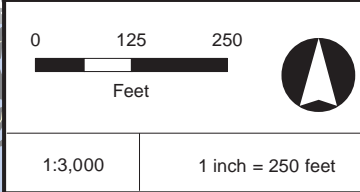
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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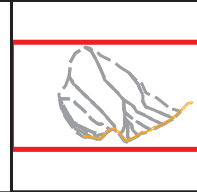


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

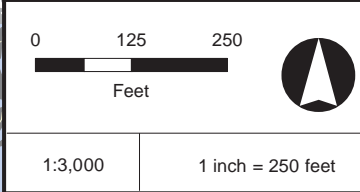
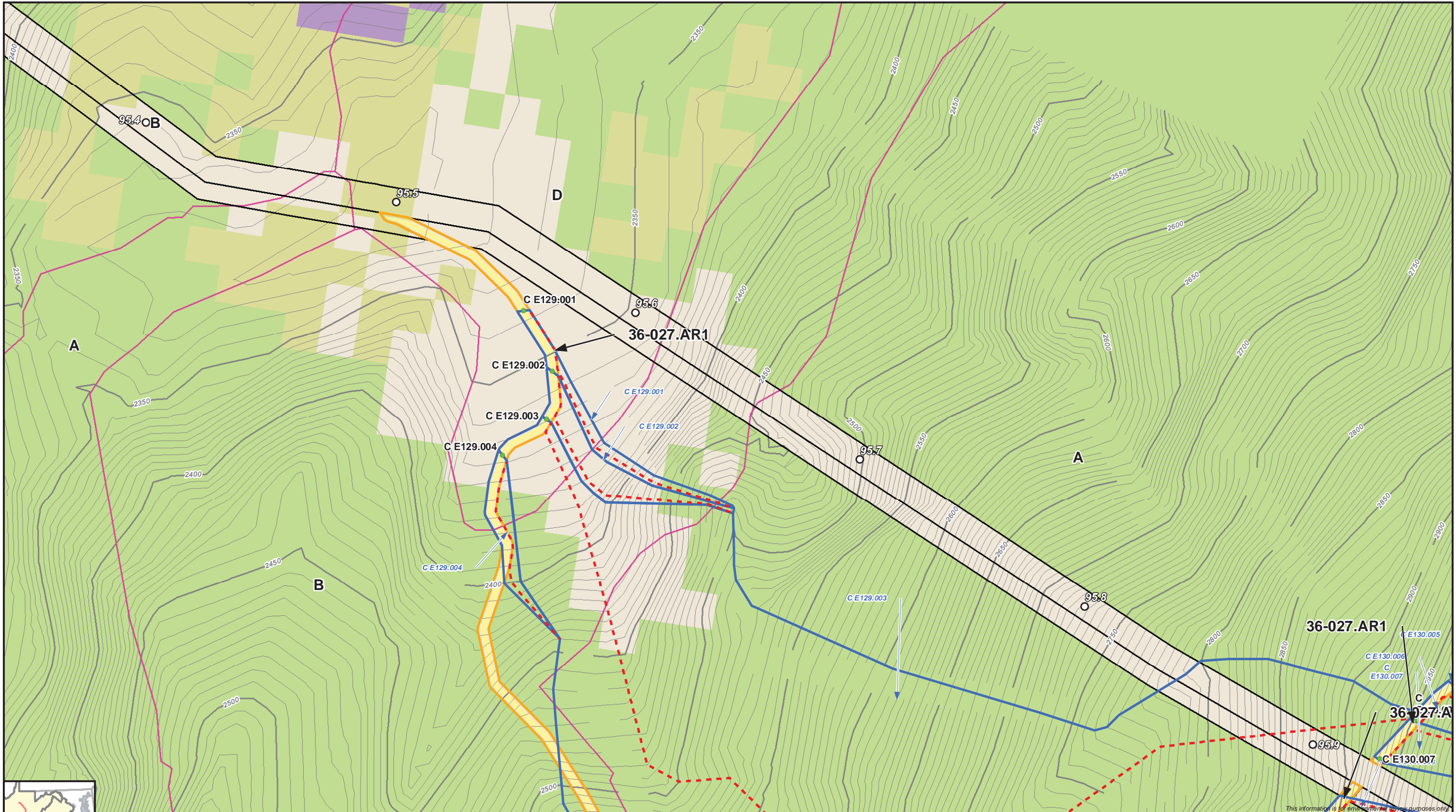
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

- ▭ Forest
- ▭ Gravel
- ▭ Shrub

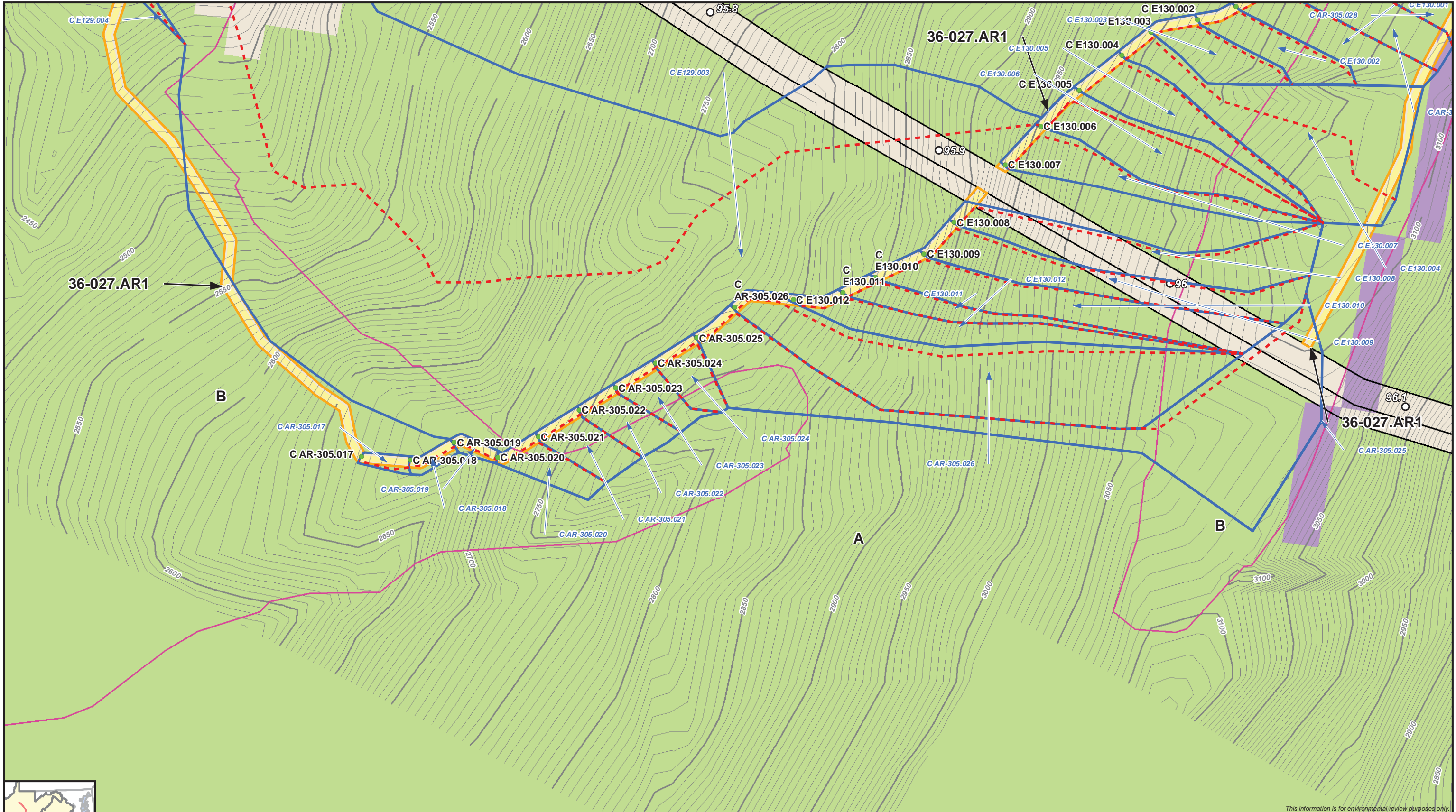
Access Road Key →



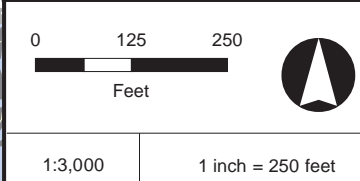
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



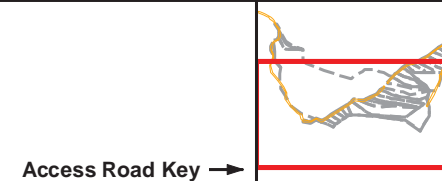
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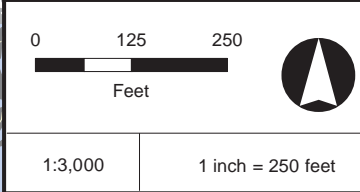
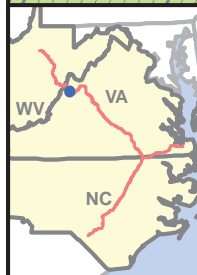
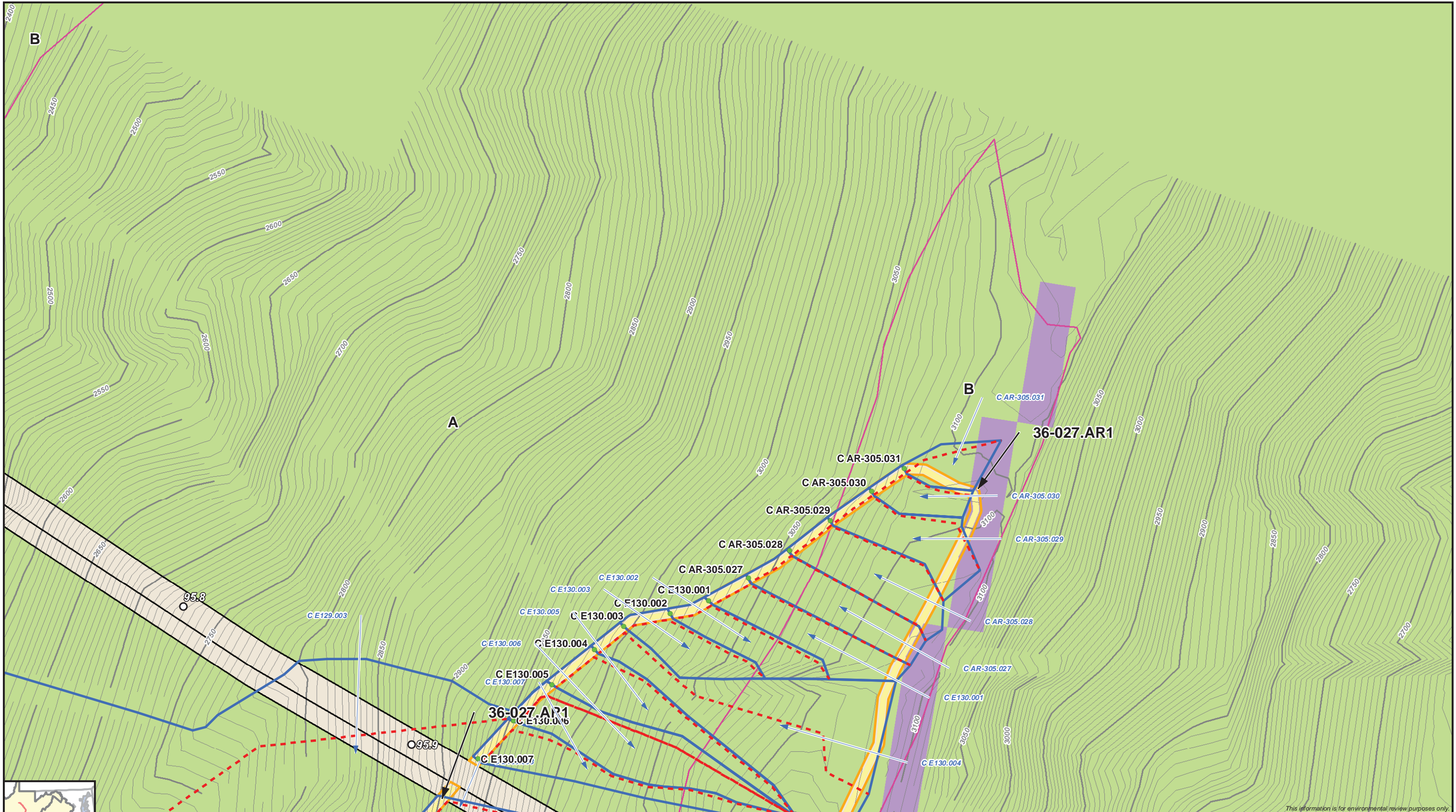


○ Milepost	--- Flow Path	Land Cover	■ Gravel
■ Permanent Access Road ROW	— Major Contour	■ Developed, Open Space	■ Shrub
■ Pipeline ROW	— Minor Contour	■ Forest	
■ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			

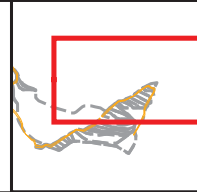


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





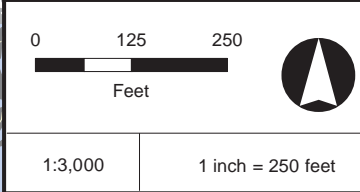
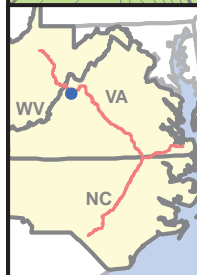
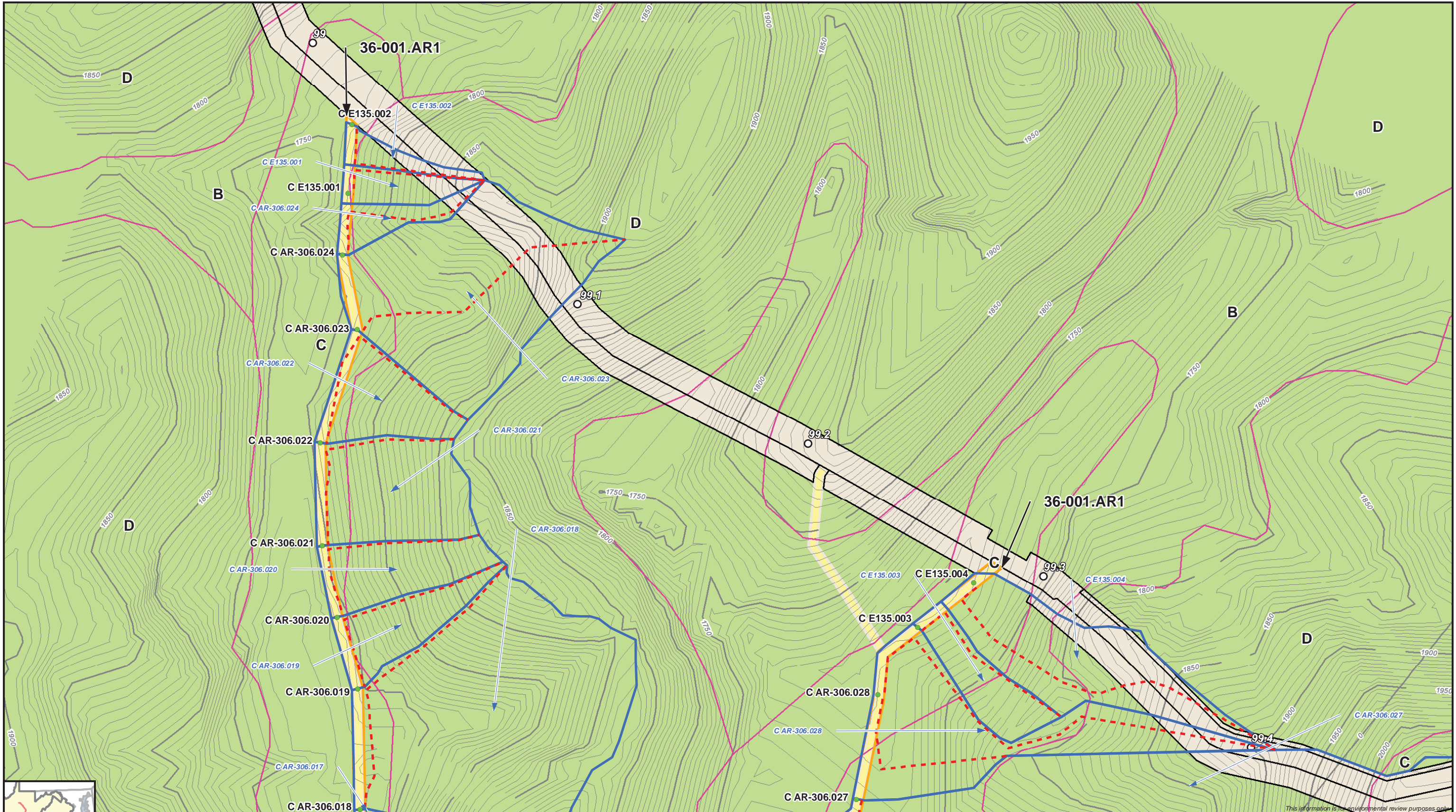
○ Milepost	--- Flow Path	Land Cover	■ Gravel
▭ Permanent Access Road ROW	— Major Contour	■ Developed, Open Space	■ Shrub
▭ Pipeline ROW	— Minor Contour	■ Forest	
▭ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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This information is for environmental review purposes only.



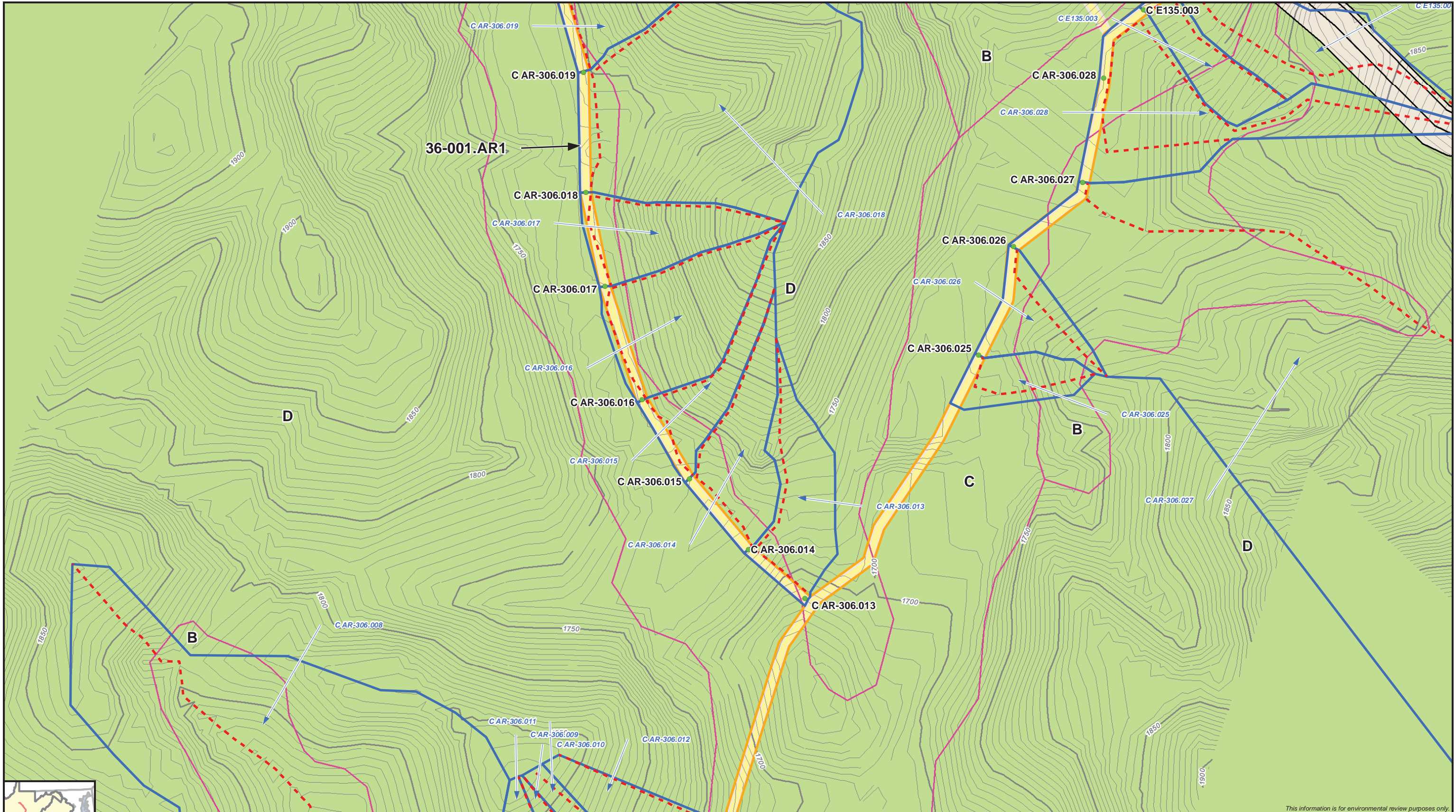
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▭ Permanent Access Road ROW	— Major Contour	■ Forest	■ Shrub
▭ Pipeline ROW	— Minor Contour	■ Hydrologic Soil Group	
▭ Culvert Drainage Area	● Culvert		

Access Road Key →

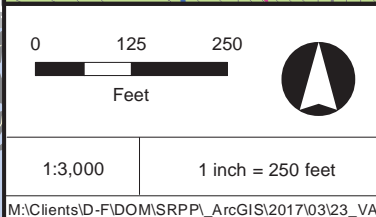


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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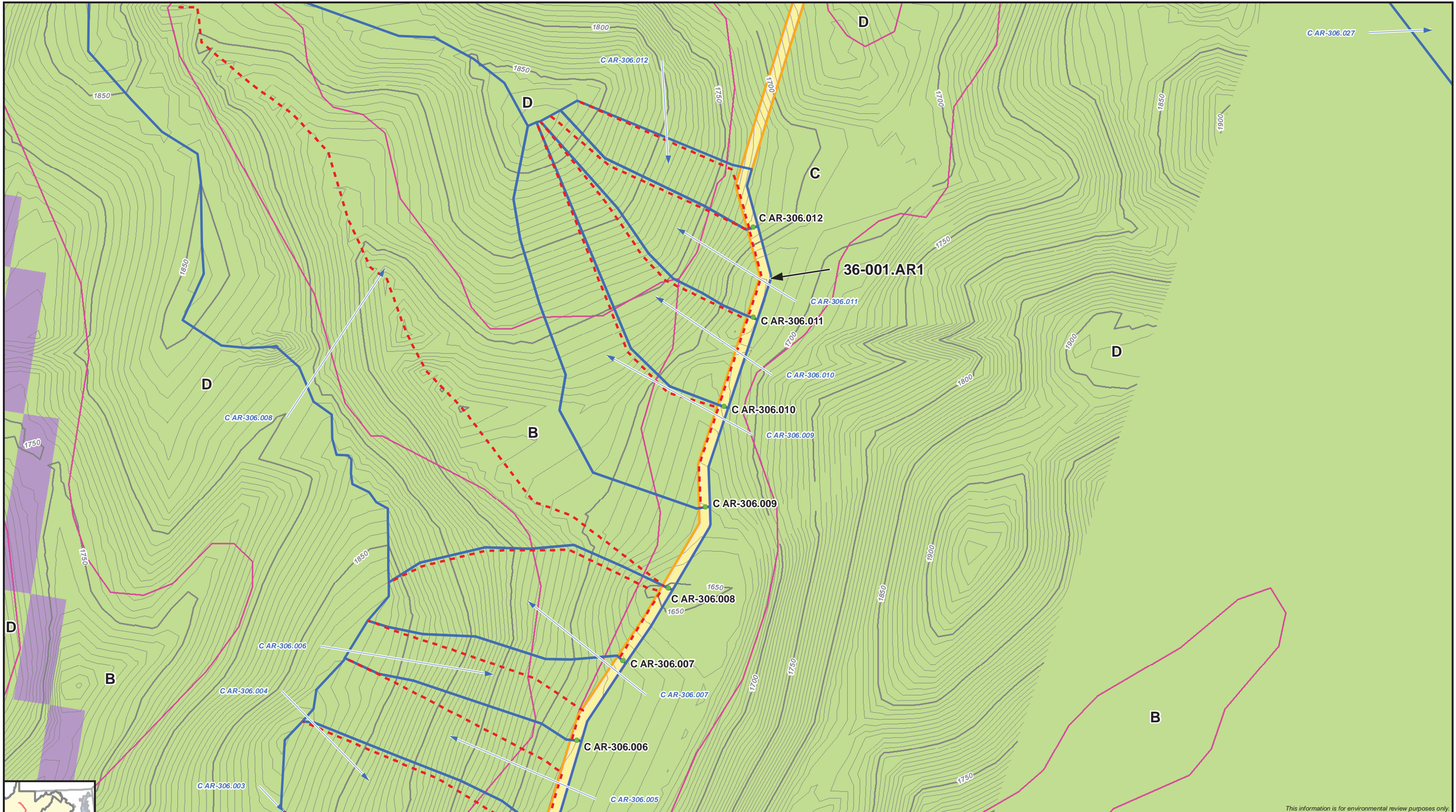
Permanent Access Road ROW	Flow Path	Land Cover	Gravel
Pipeline ROW	Major Contour	Forest	Shrub
Culvert Drainage Area	Minor Contour	Hydrologic Soil Group	
Culvert	Hydrologic Soil Group		



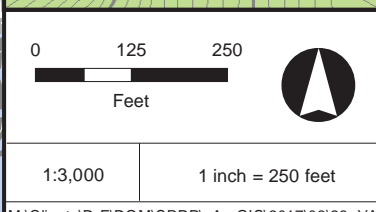
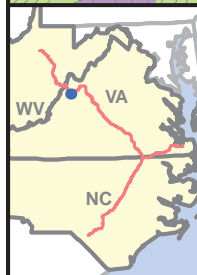
Page 31 of 118

Virginia Culvert and Ditch Analysis Permanent Access Roads Post-Development Conditions

DRAWN BY: TG



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Permanent Access Road ROW	Flow Path	Land Cover	Gravel
Culvert Drainage Area	Major Contour	Developed, Open Space	Shrub
Culvert	Minor Contour	Forest	
Hydrologic Soil Group			



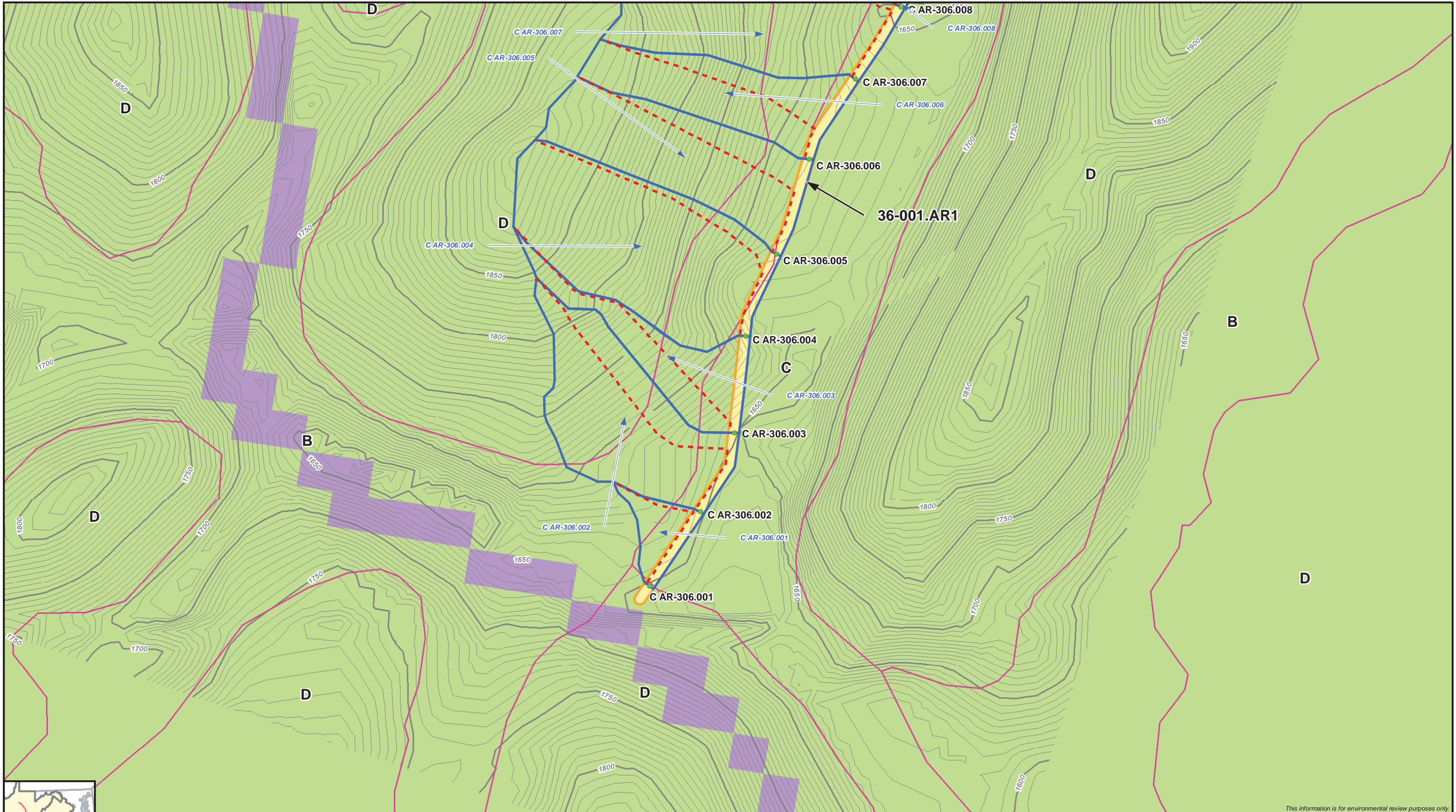
Access Road Key →



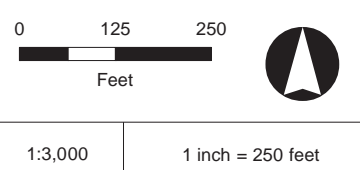
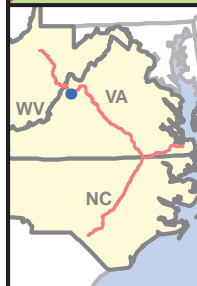
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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- | | | | |
|---------------------------|---------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Gravel |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Shrub |
| Culvert | Minor Contour | Forest | |
| Hydrologic Soil Group | | | |

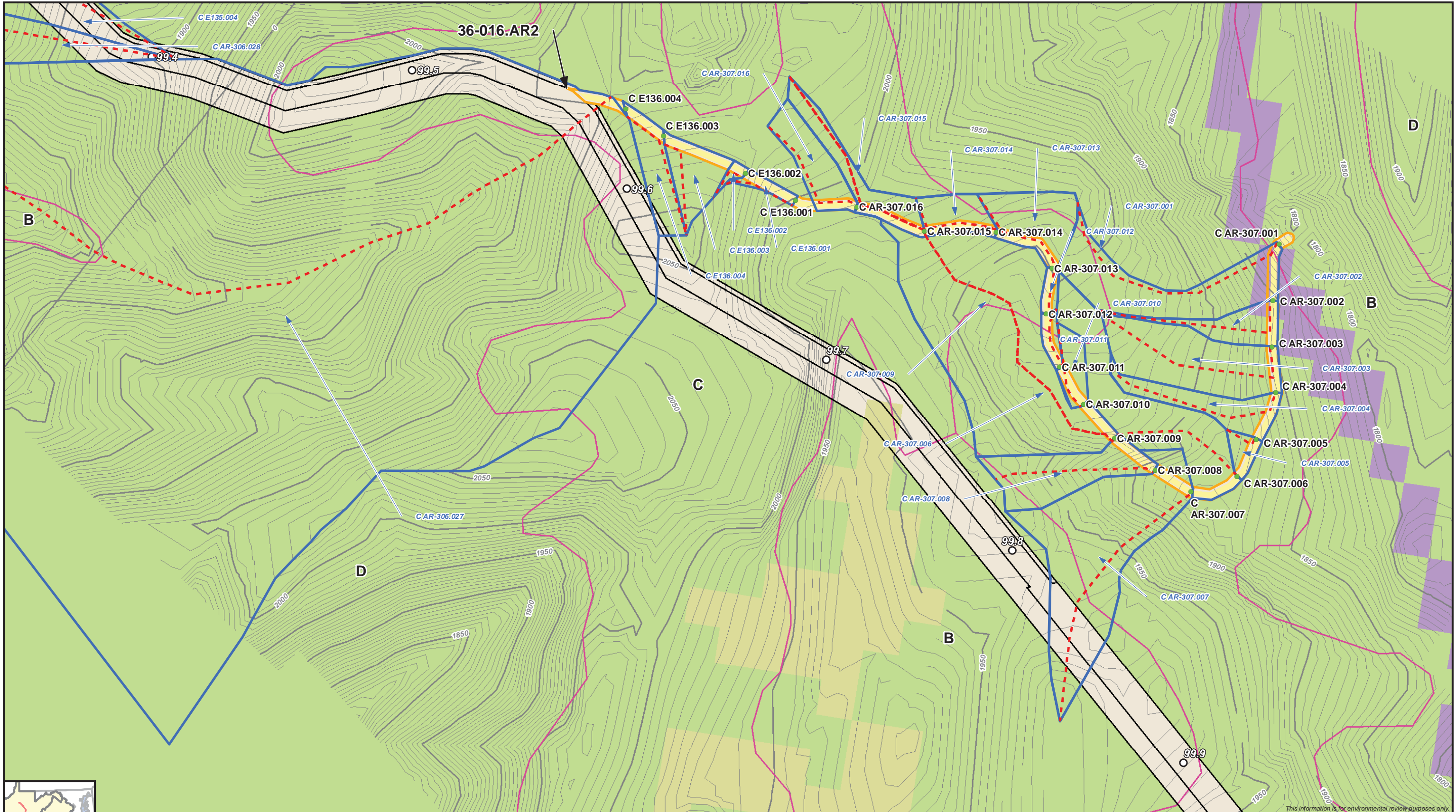
Access Road Key →



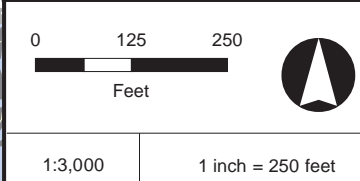
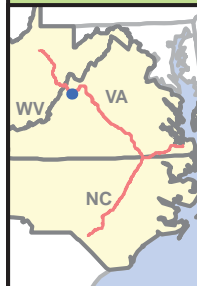
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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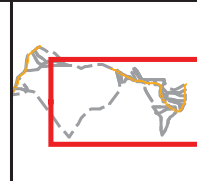


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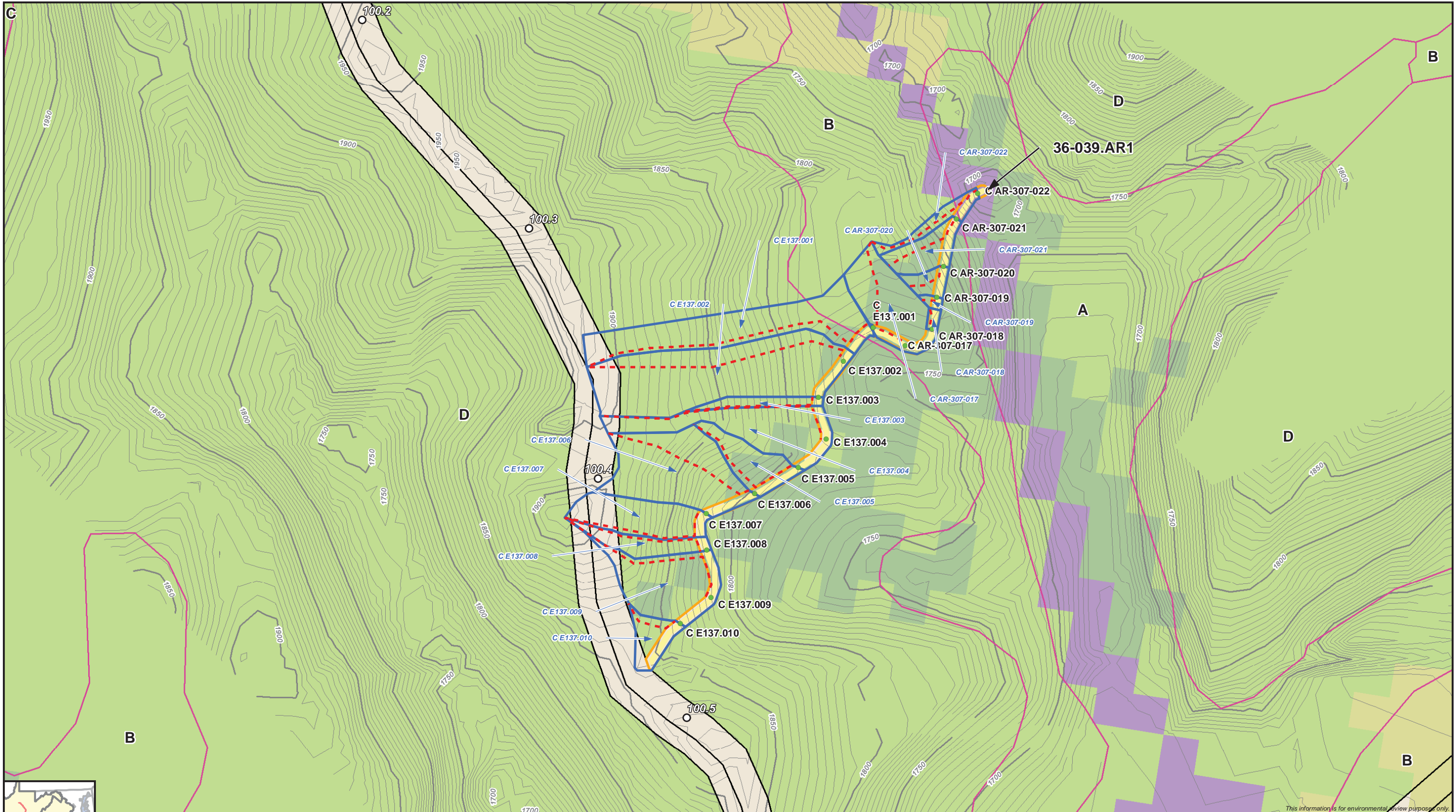
○ Milepost	--- Flow Path	Land Cover	Forest
▭ Permanent Access Road ROW	— Major Contour	Agriculture	Gravel
▭ Pipeline ROW	— Minor Contour	Developed, Open Space	Shrub
▭ Culvert Drainage Area	ⓐ Hydrologic Soil Group		
● Culvert			

Access Road Key →

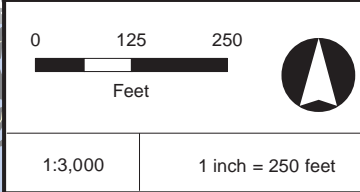
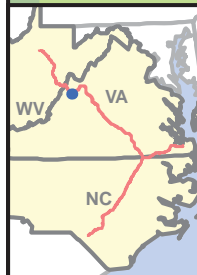


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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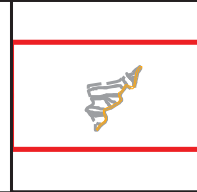


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

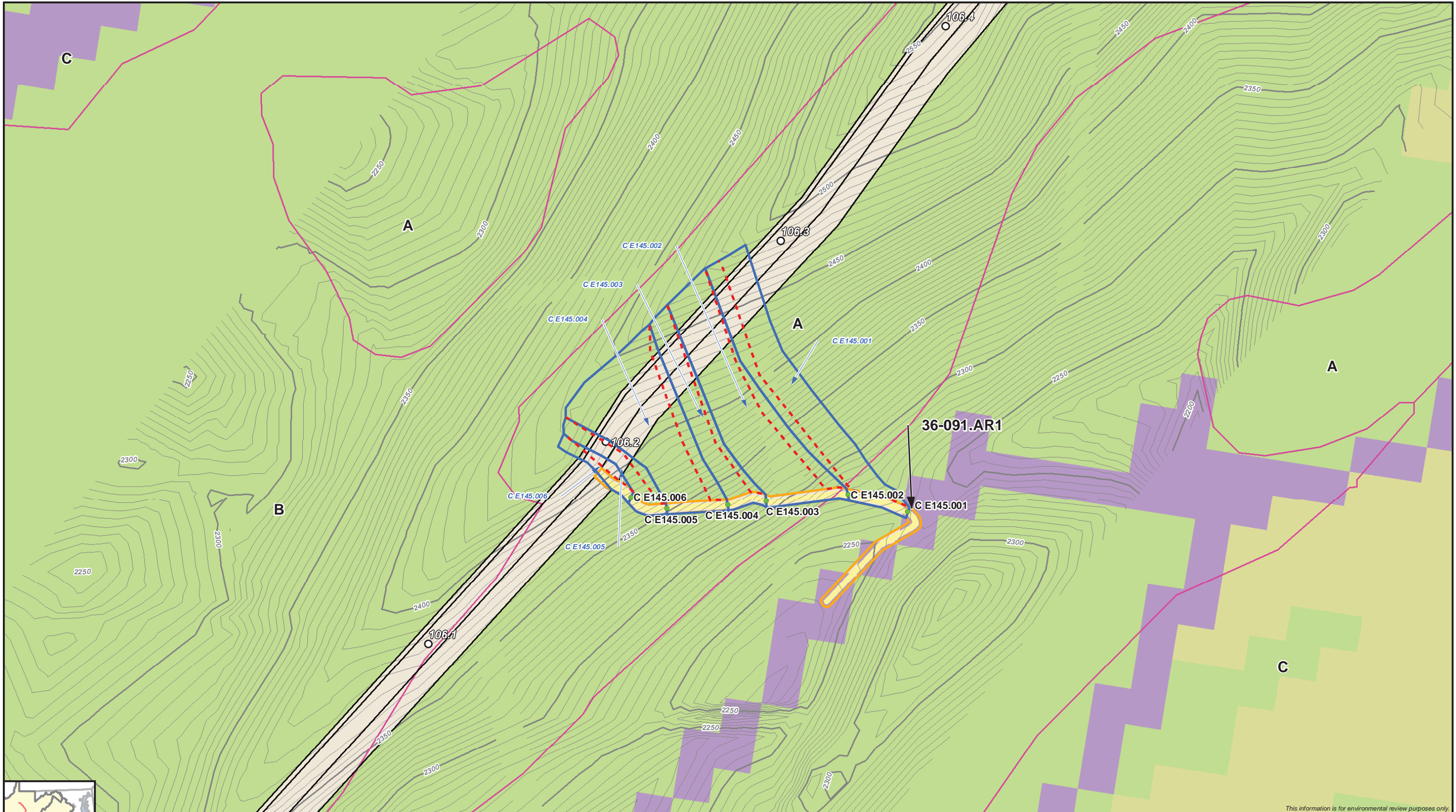
- Land Cover**
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 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Shrub

Access Road Key →

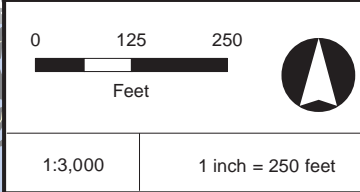
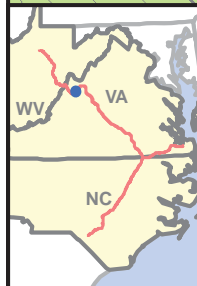


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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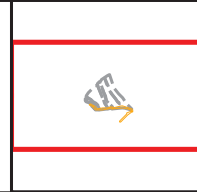
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

- ▭ Forest
- ▭ Gravel
- ▭ Shrub

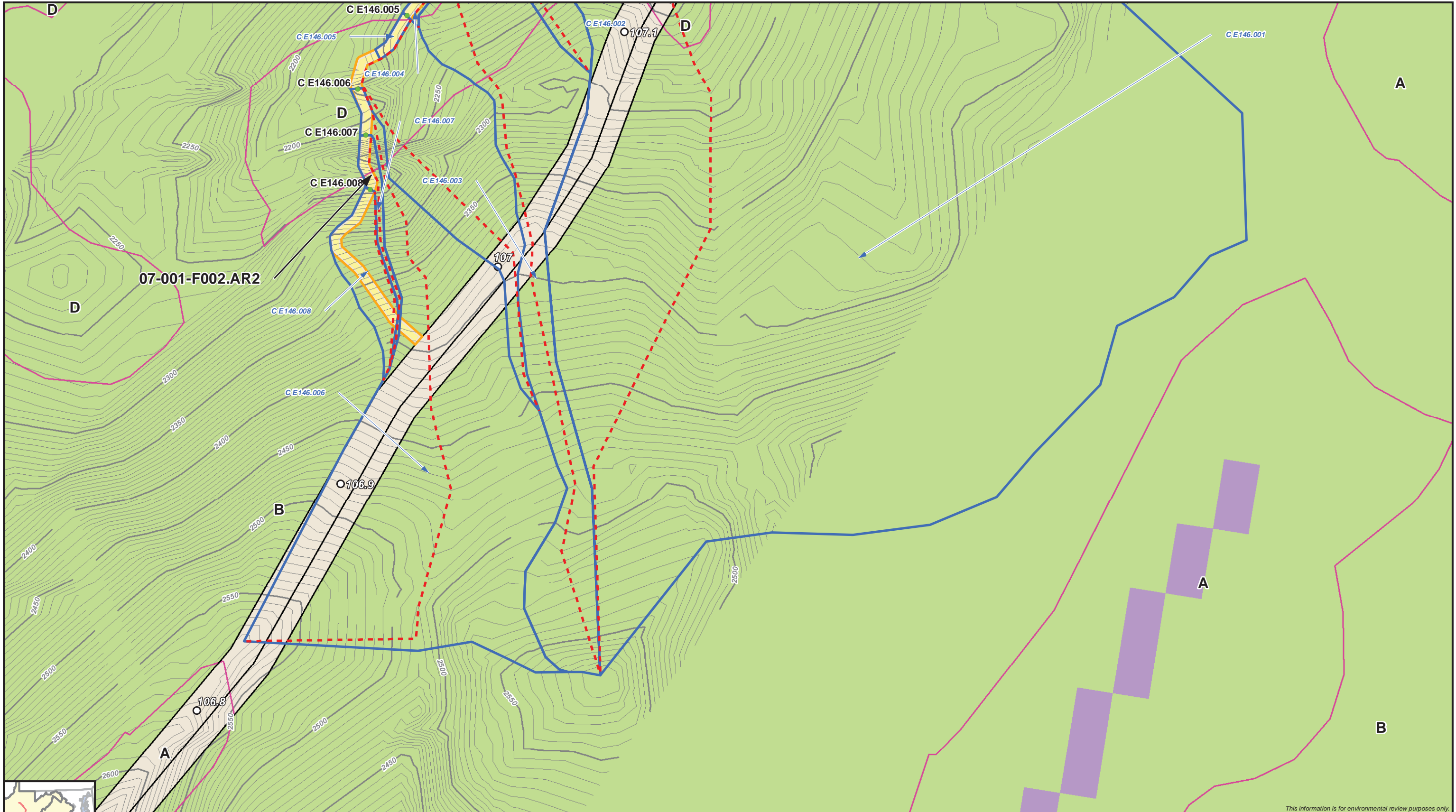
Access Road Key →



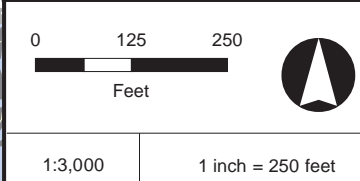
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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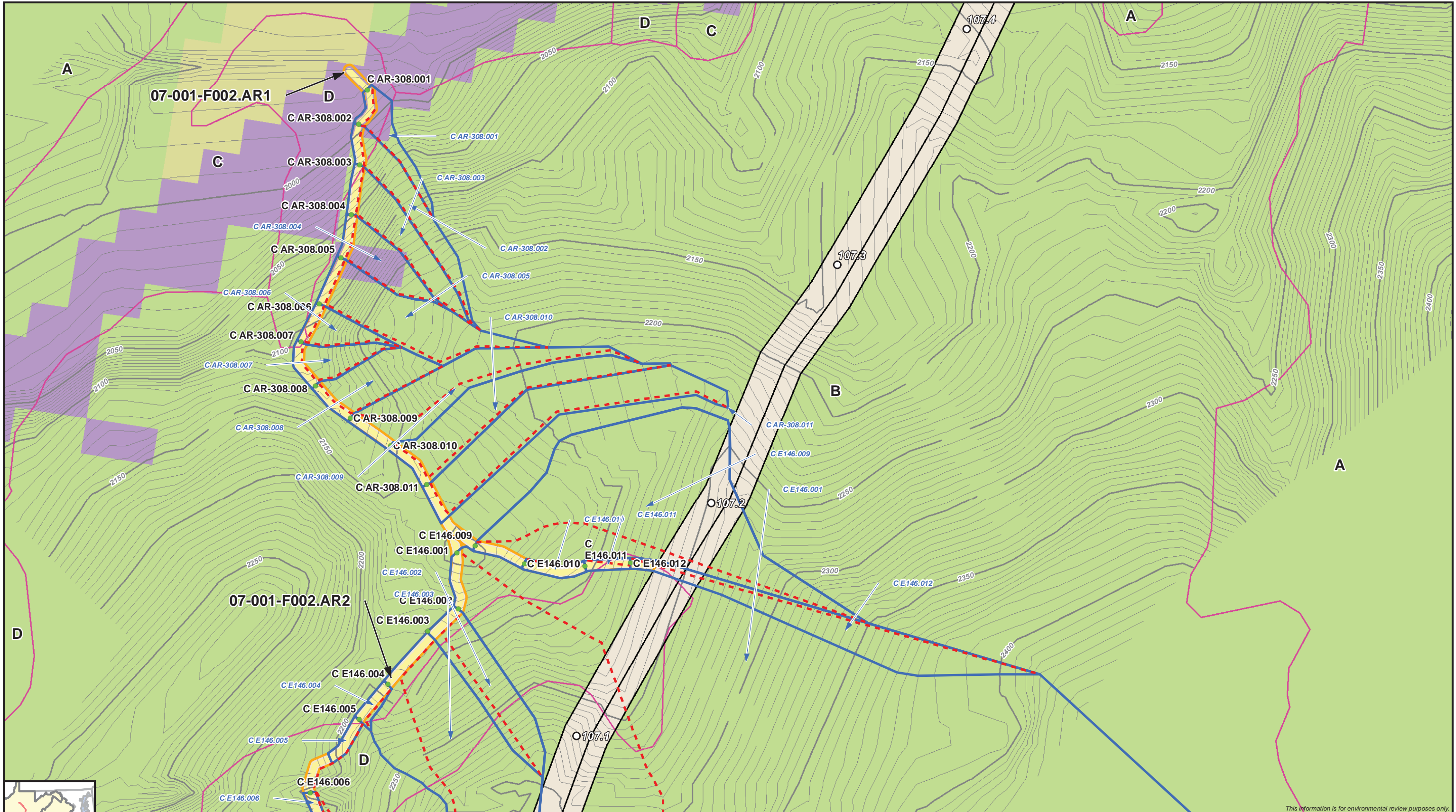
- | | | | |
|-----------------------------|-------------------------|-------------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Developed, Open Space | ■ Shrub |
| ▭ Pipeline ROW | — Minor Contour | ■ Forest | |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

Access Road Key →

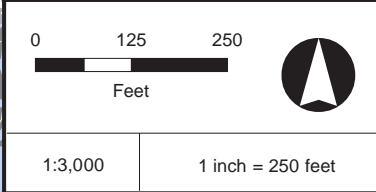
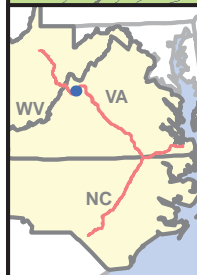


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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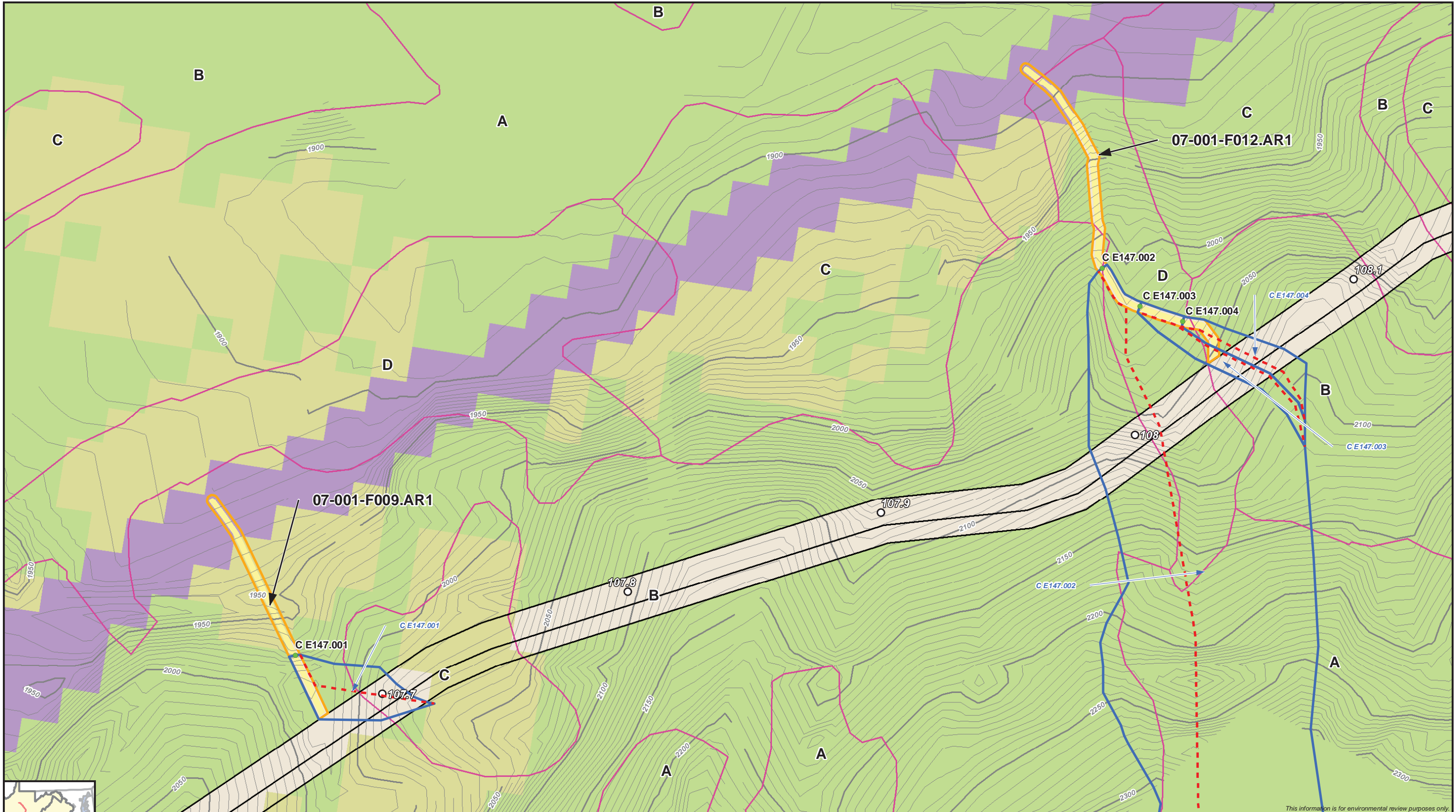


- | | | | |
|-----------------------------|-------------------------|-----------------------|--------|
| ○ Milepost | --- Flow Path | Land Cover | Forest |
| ▭ Permanent Access Road ROW | — Major Contour | Agriculture | Gravel |
| ▭ Pipeline ROW | — Minor Contour | Developed, Open Space | Shrub |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

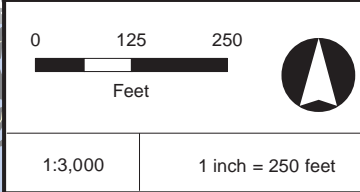
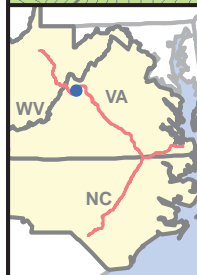


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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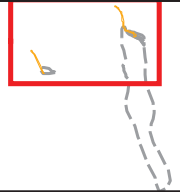


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

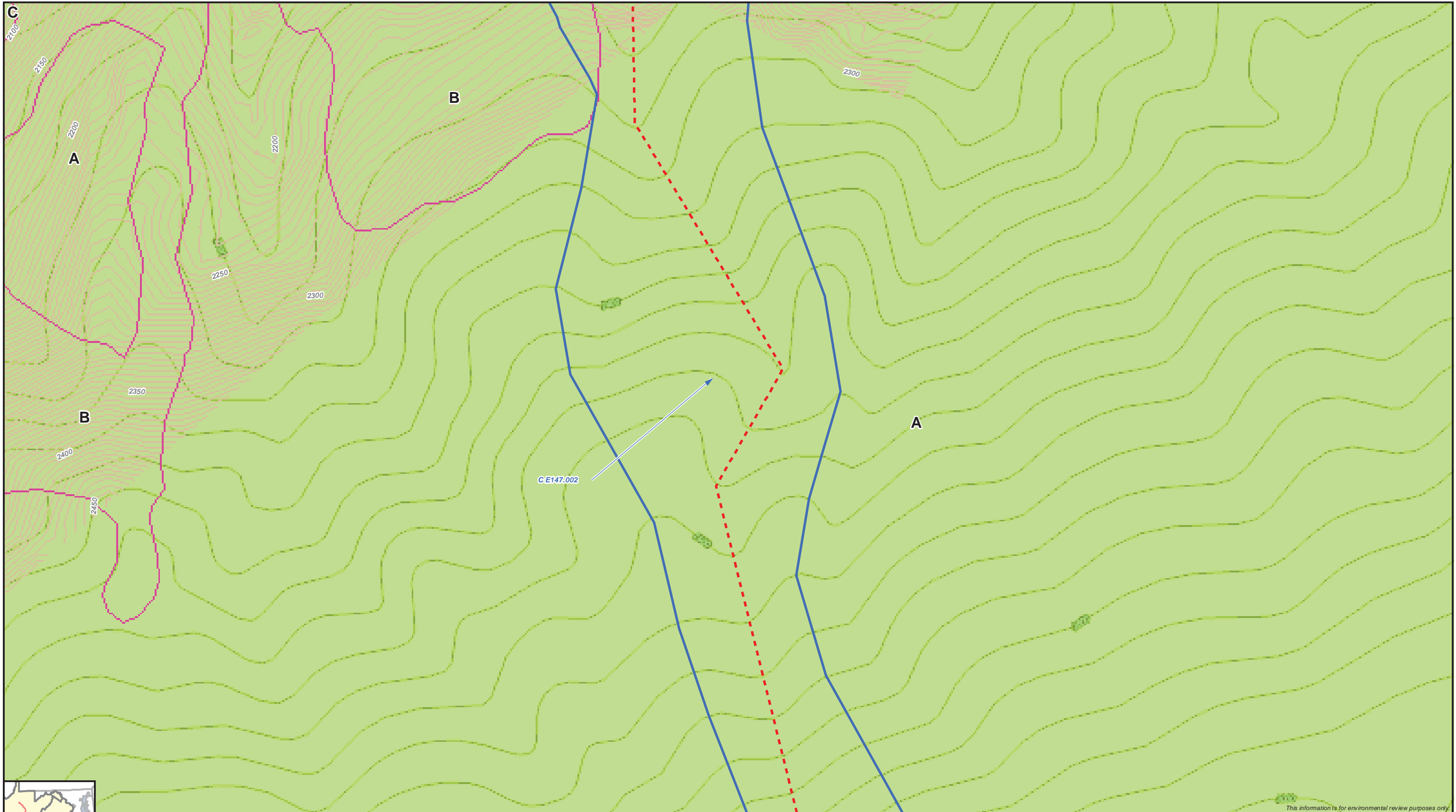
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →

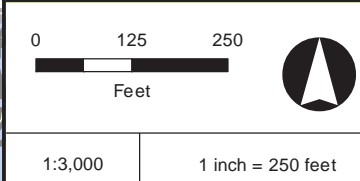


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





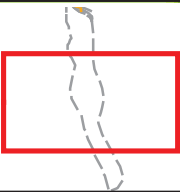
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- Culvert Drainage Area
- - - Flow Path
- Major Contour
- Minor Contour
- Forest

Hydrologic Soil Group

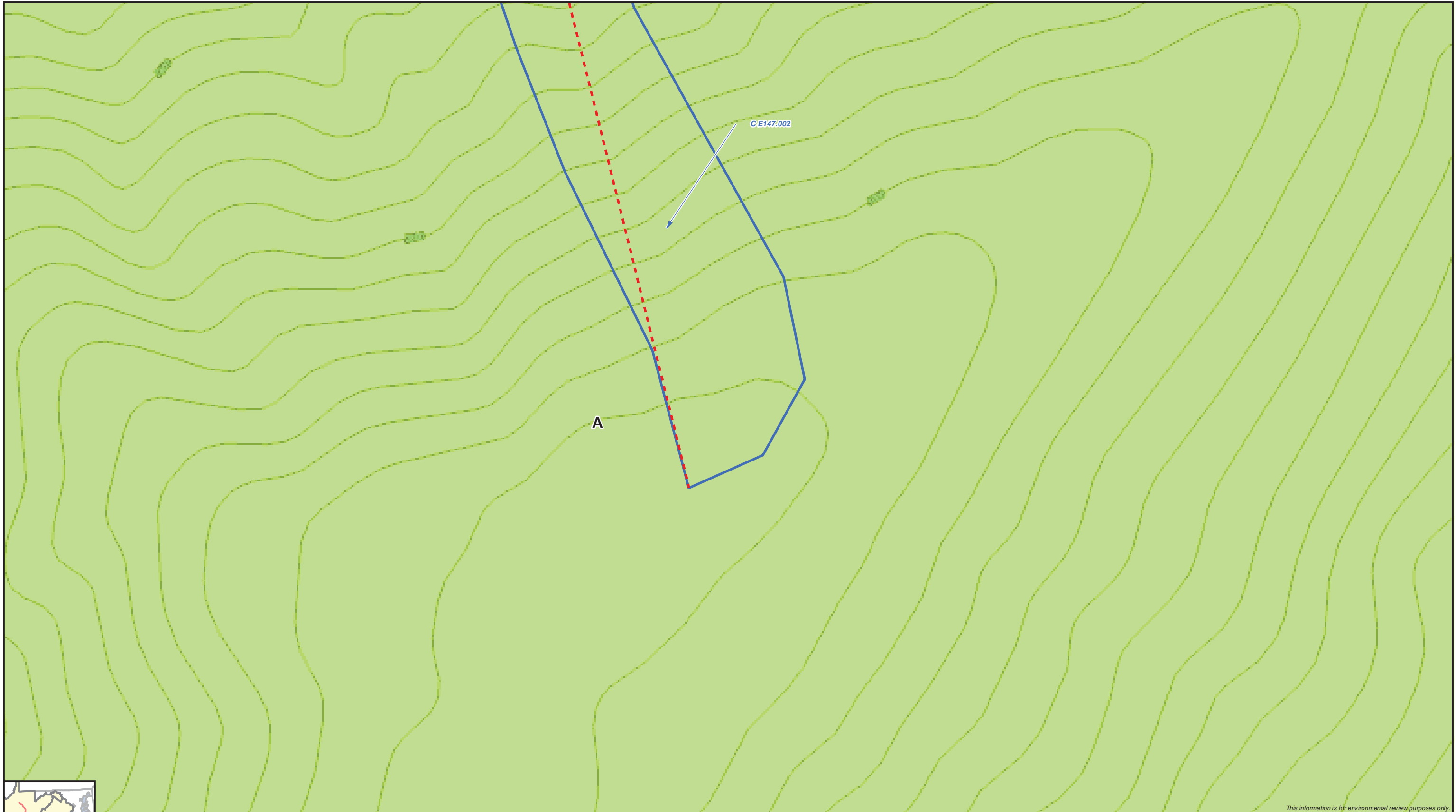
Access Road Key →



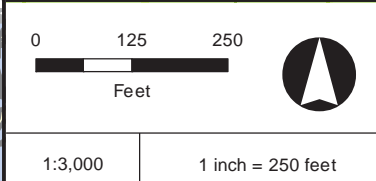
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





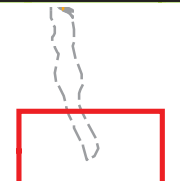
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- Culvert Drainage Area
- Flow Path
- Land Cover**
- Forest

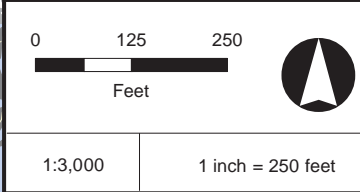
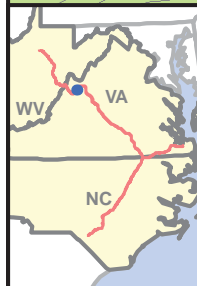
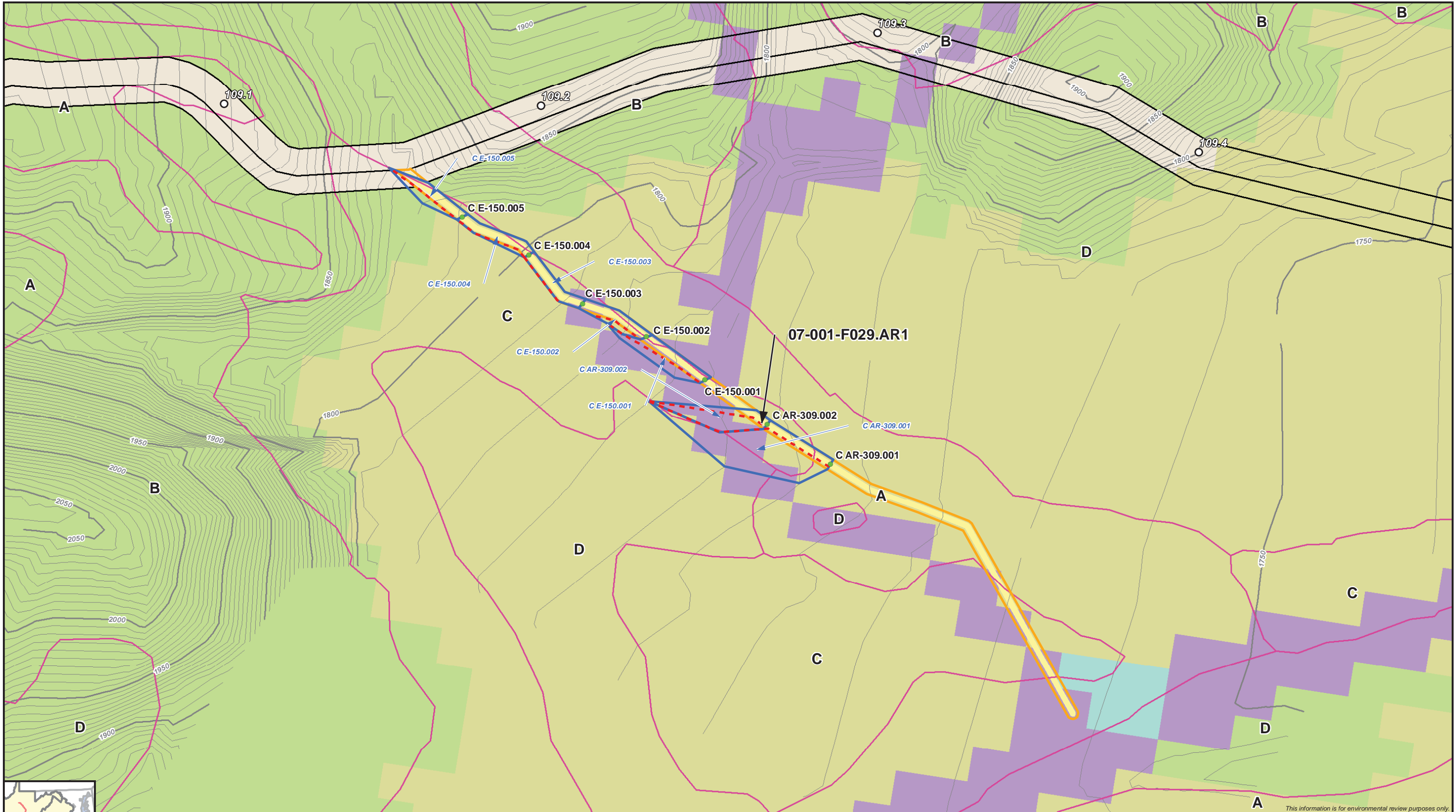
Hydrologic Soil Group

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



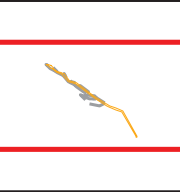


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space

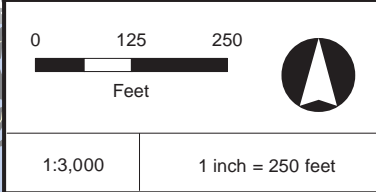
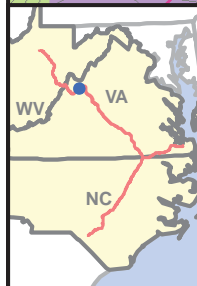
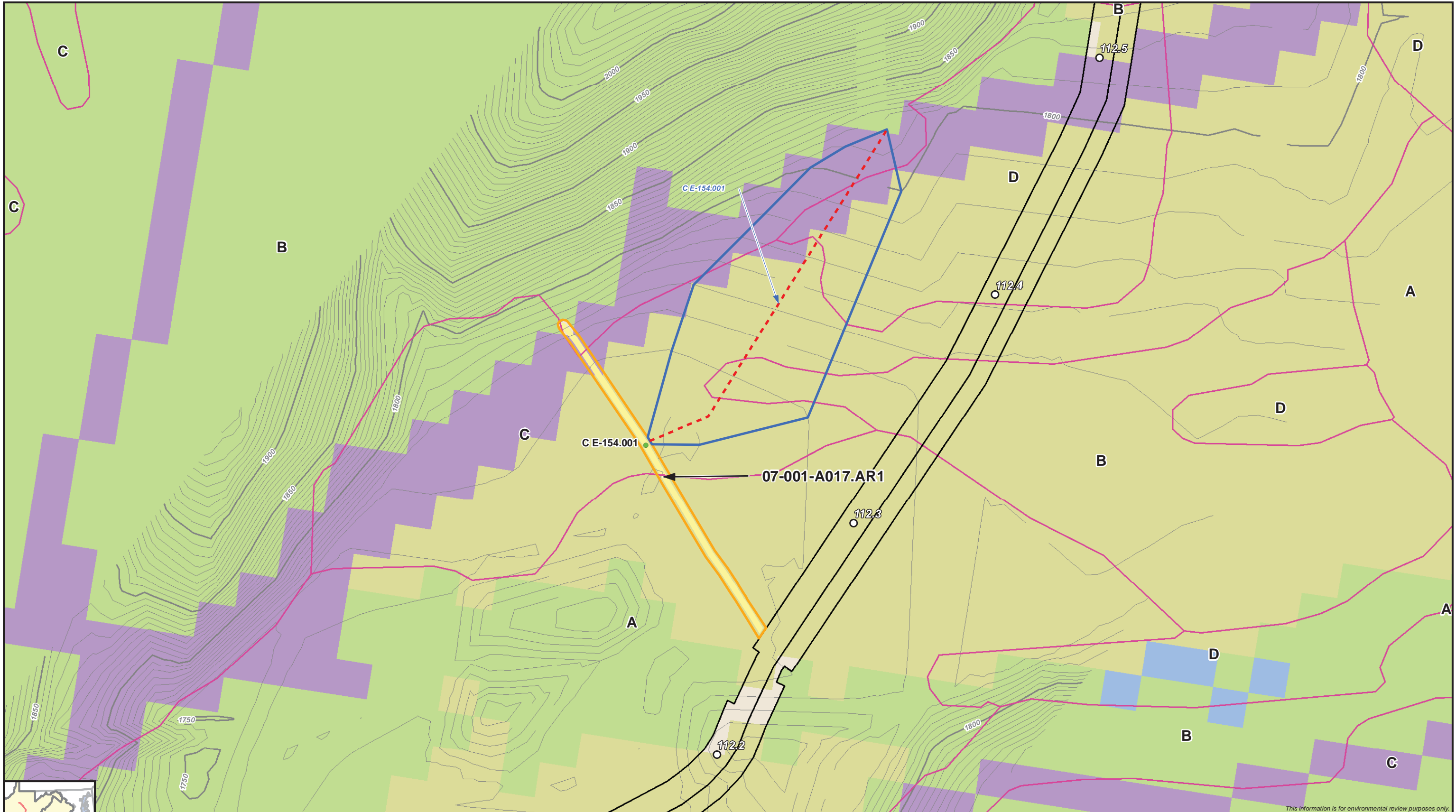
- ▭ Forest
- ▭ Gravel
- ▭ Shrub

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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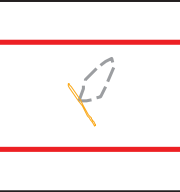


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

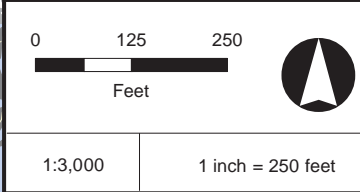
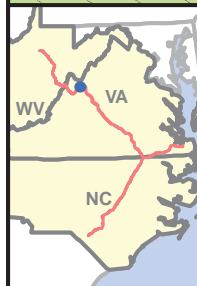
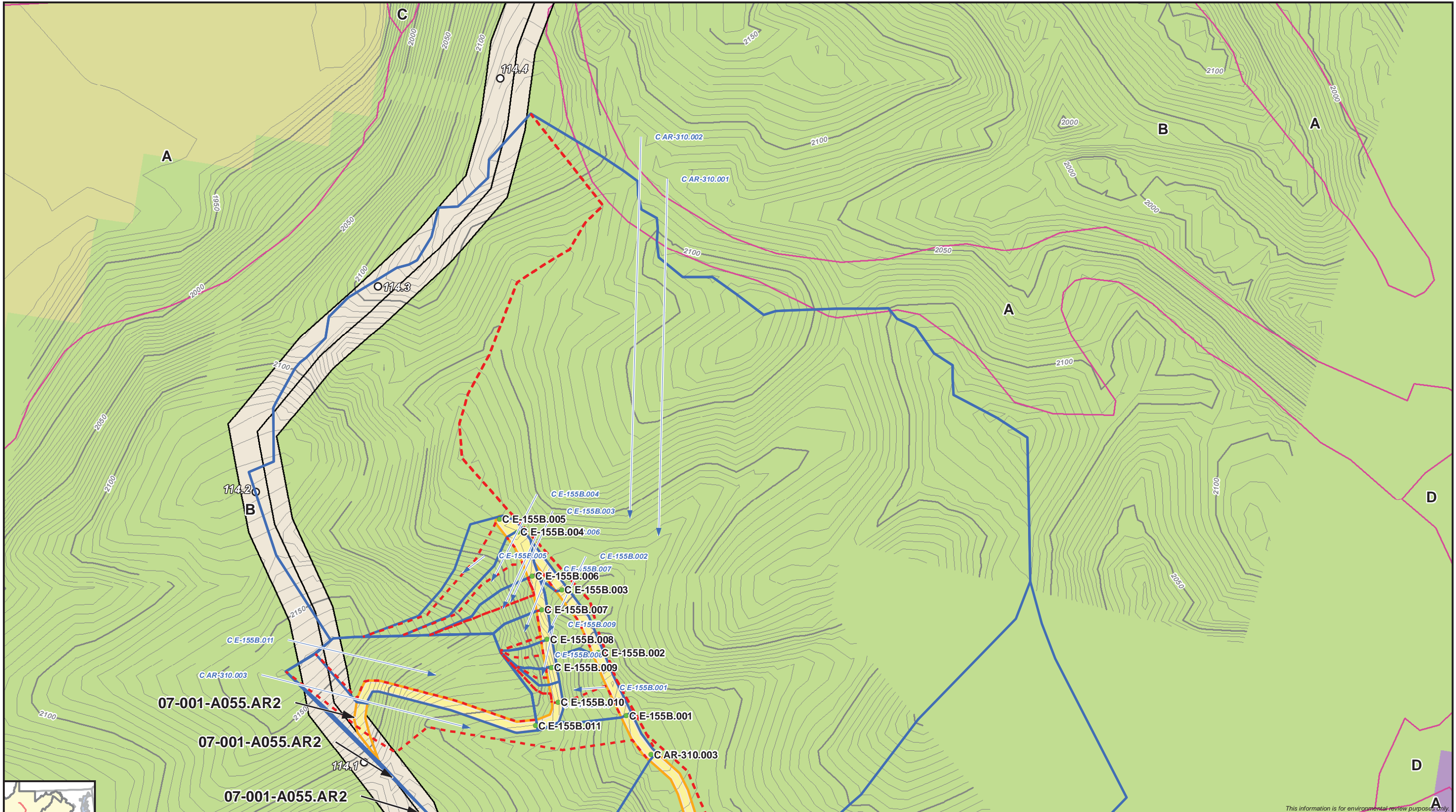
- Land Cover**
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 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel
 - ▭ Open Water
 - ▭ Shrub

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Land Cover
 - ▭ Agriculture
 - ▭ Developed, Open Space
- ▭ Hydrologic Soil Group

- ▭ Forest
- ▭ Gravel
- ▭ Shrub

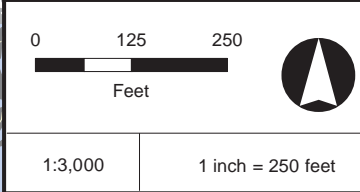
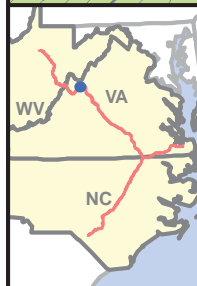
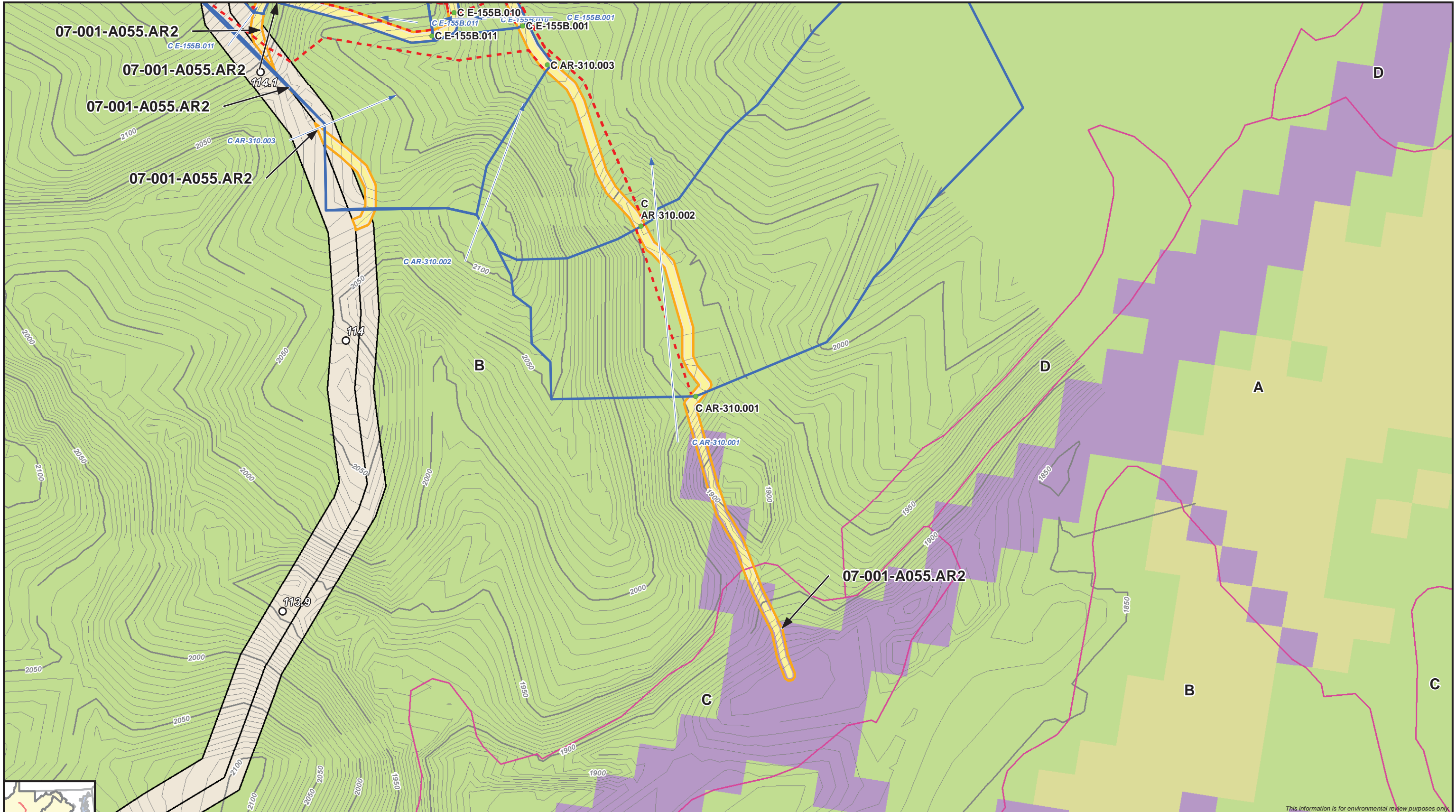
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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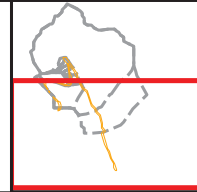
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

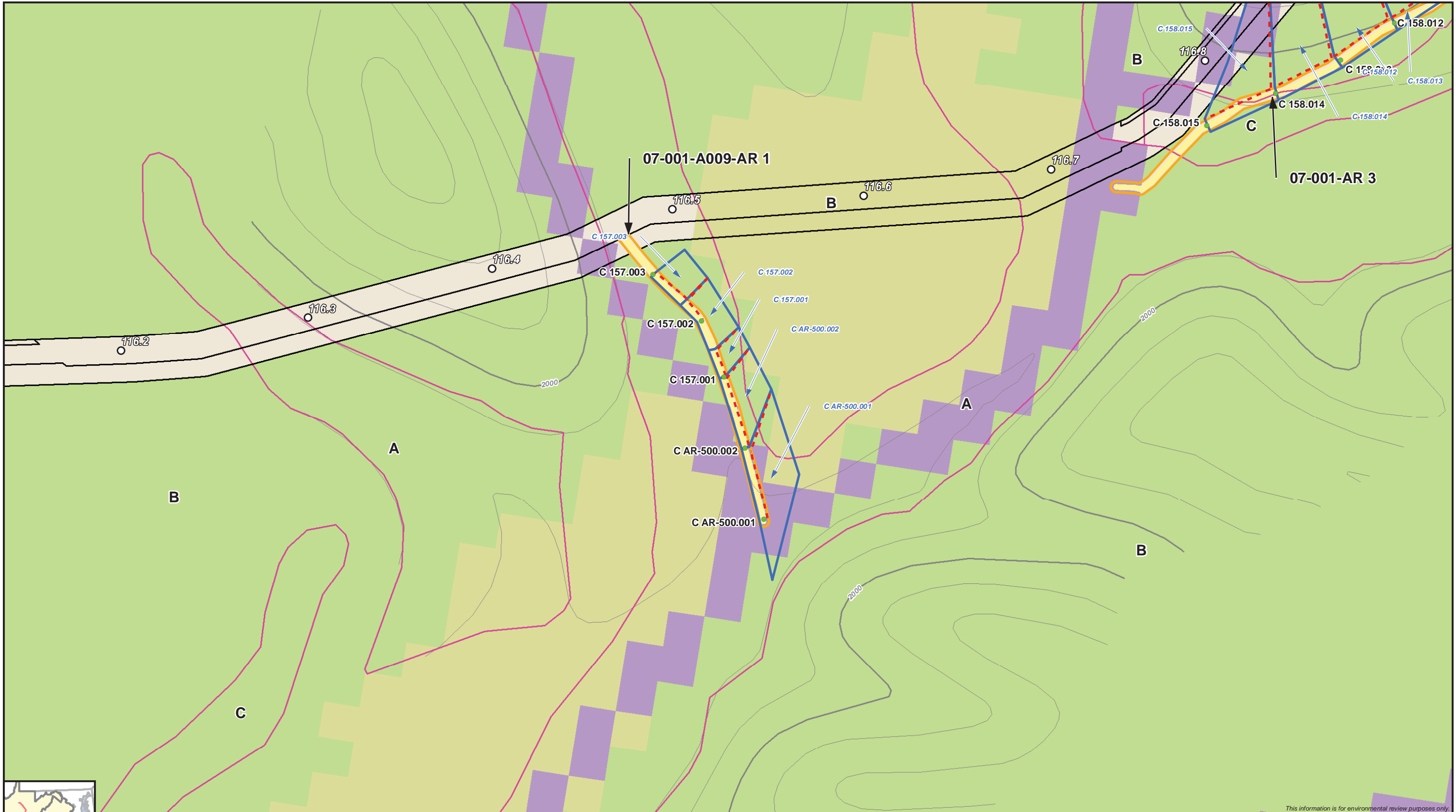
- ▭ Forest
- ▭ Gravel
- ▭ Shrub

Access Road Key →

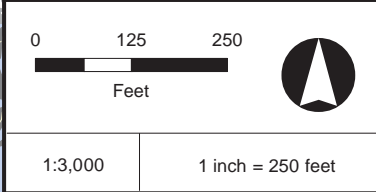
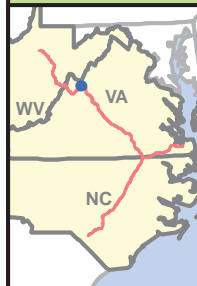


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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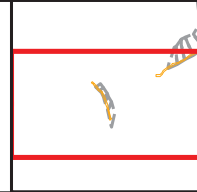
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space

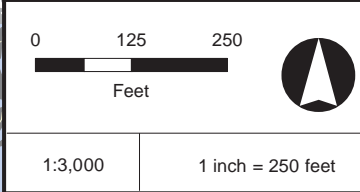
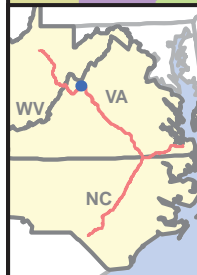
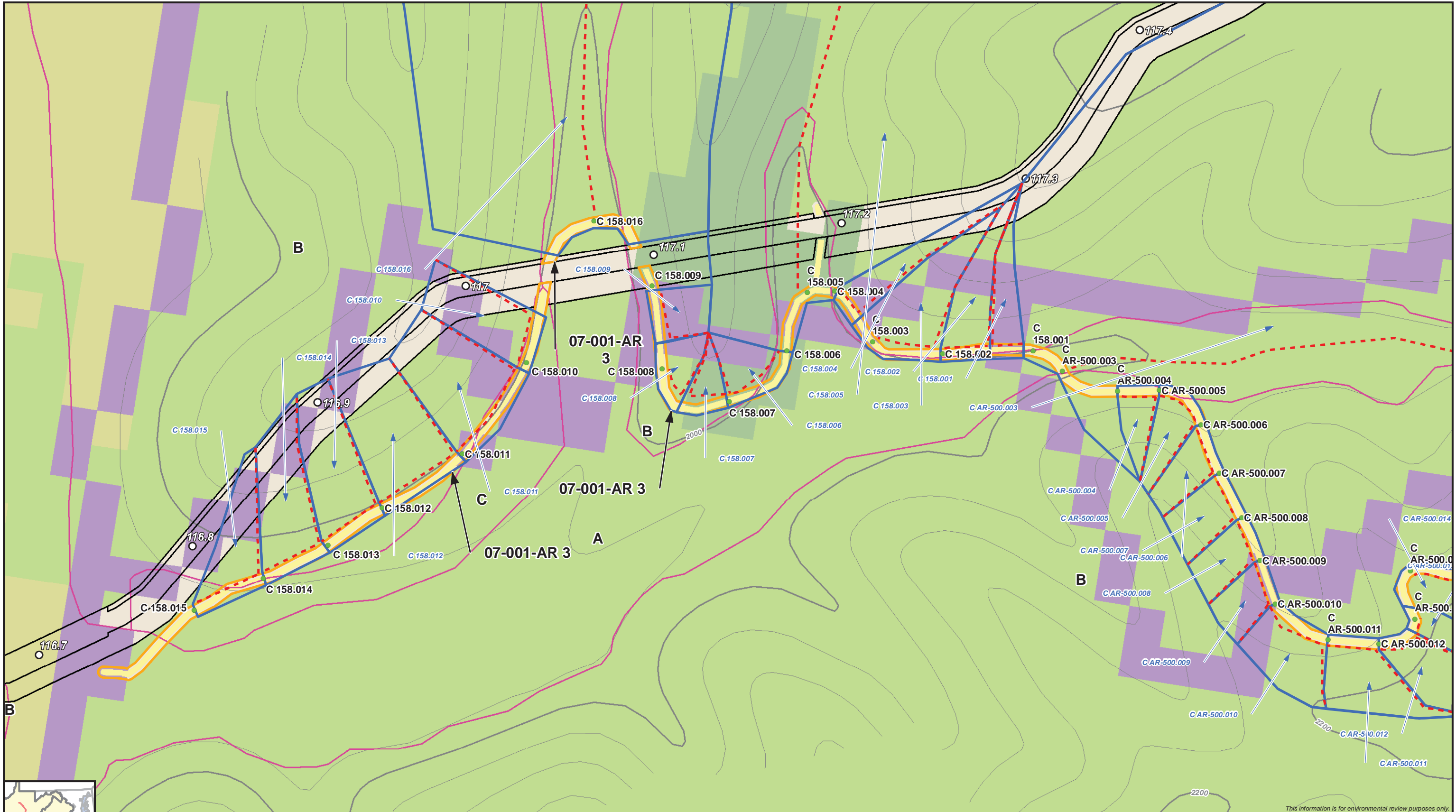
- ▭ Forest
- ▭ Gravel
- ▭ Shrub

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





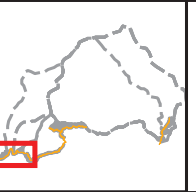
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

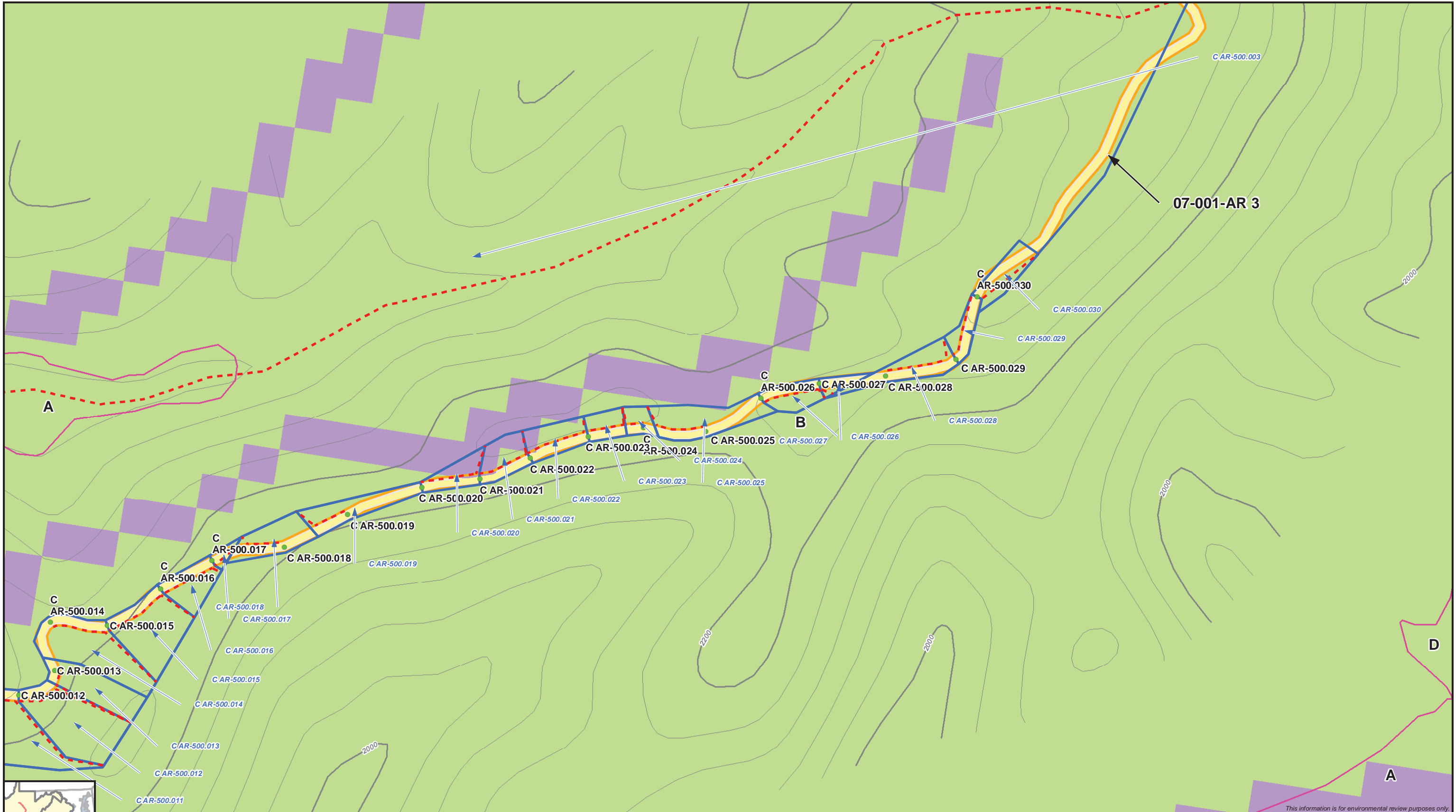
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub

Access Road Key →

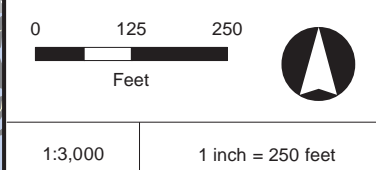
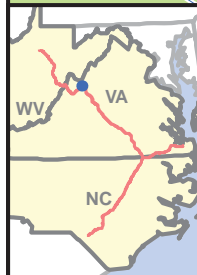


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

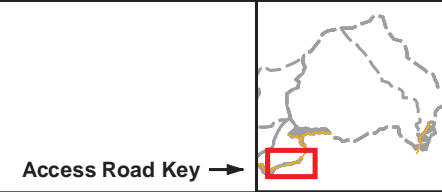




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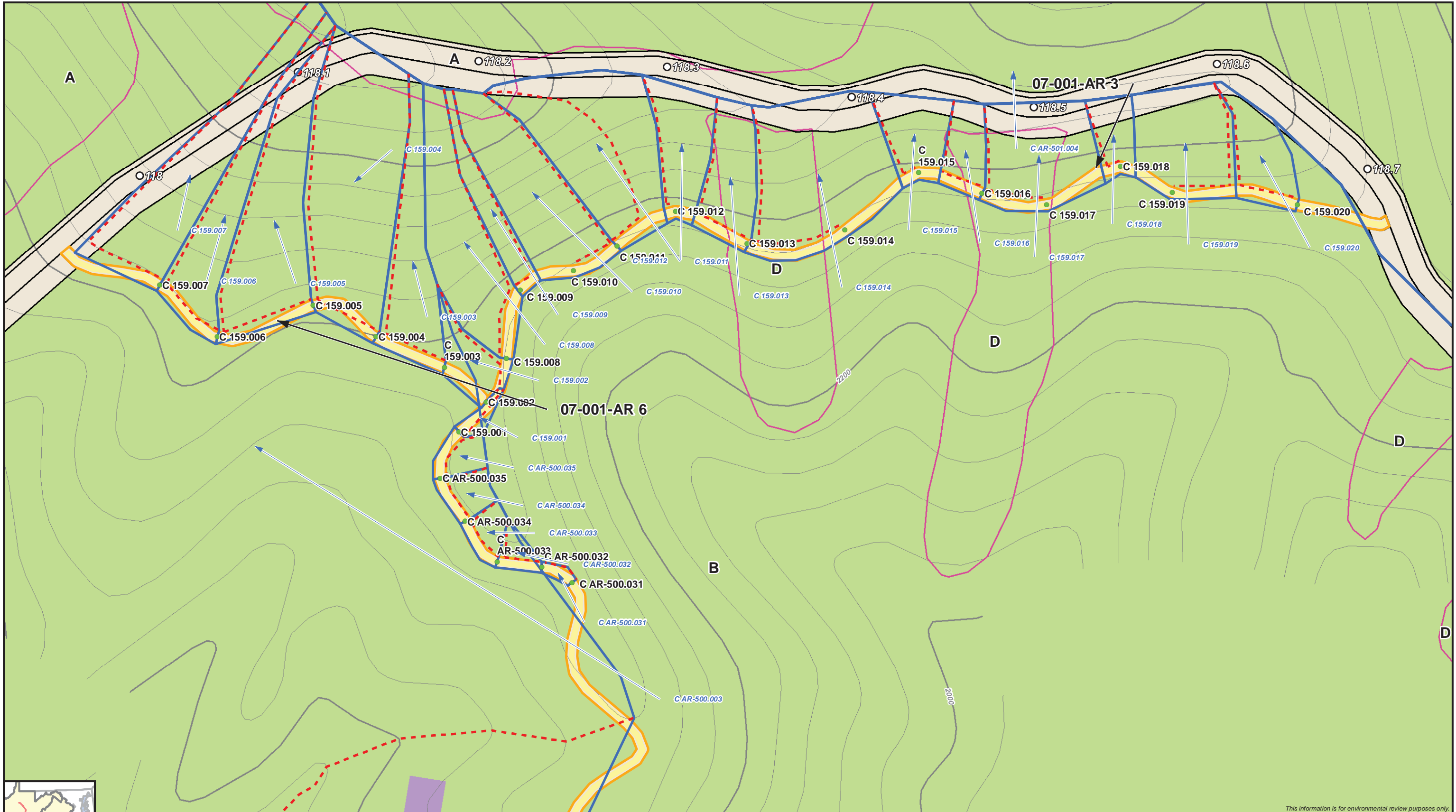


- | | | | |
|---------------------------|-----------------------|-----------------------|--------|
| Permanent Access Road ROW | Flow Path | Land Cover | Gravel |
| Culvert Drainage Area | Major Contour | Developed, Open Space | Shrub |
| Culvert | Minor Contour | Forest | |
| | Hydrologic Soil Group | | |

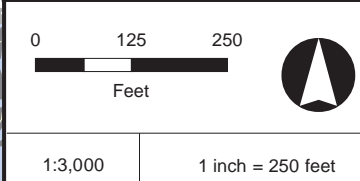
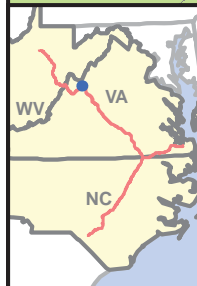


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

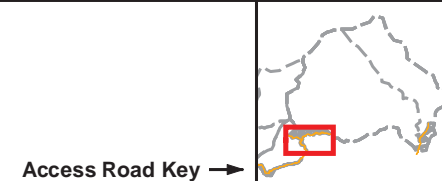




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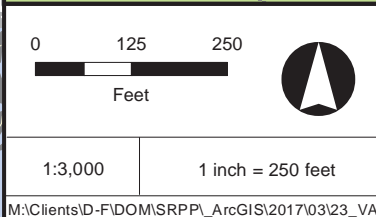
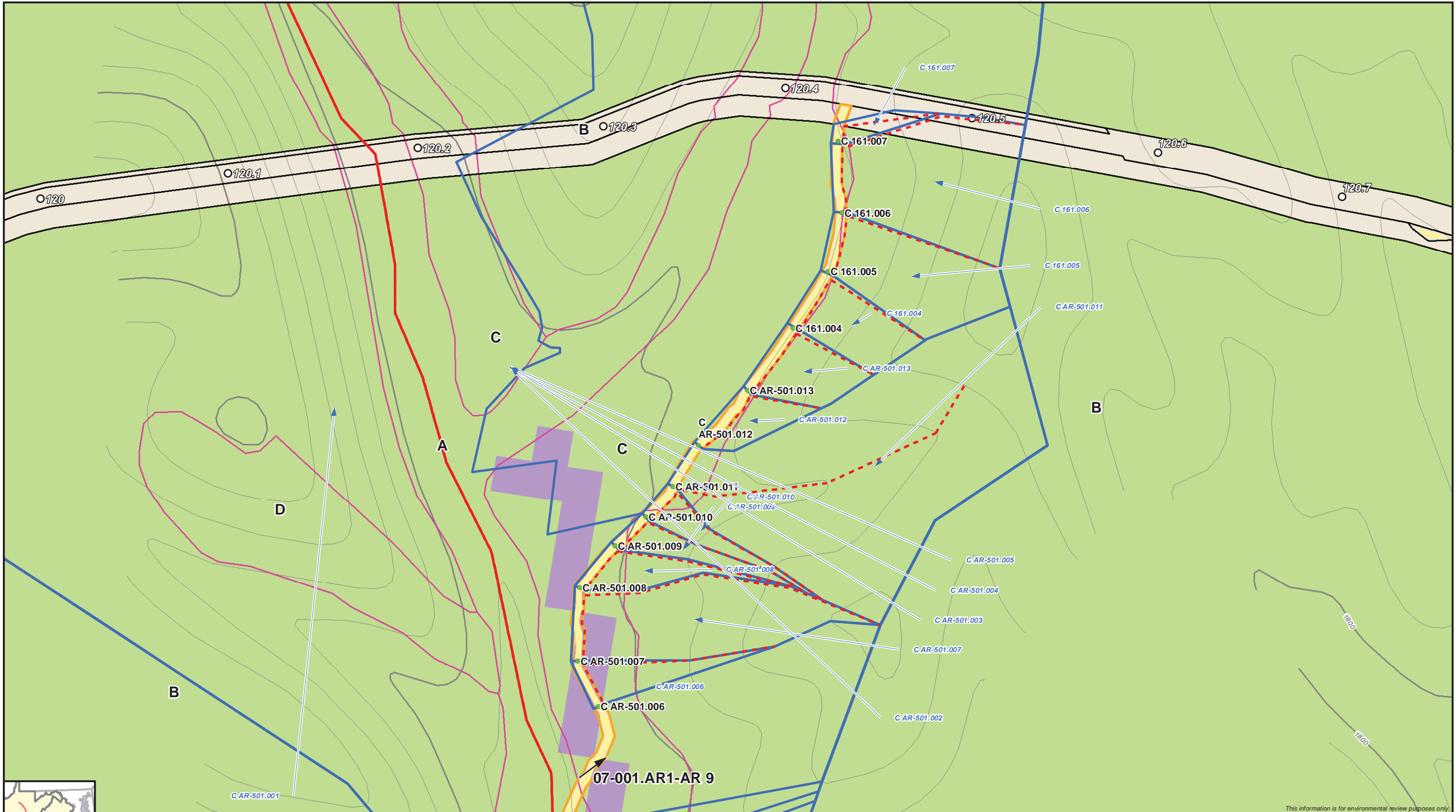


○ Milepost	--- Flow Path	Land Cover	■ Gravel
▭ Permanent Access Road ROW	— Major Contour	■ Developed, Open Space	■ Shrub
▭ Pipeline ROW	— Minor Contour	■ Forest	
▭ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			

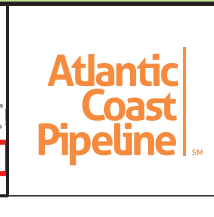
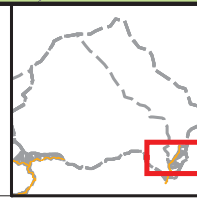


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



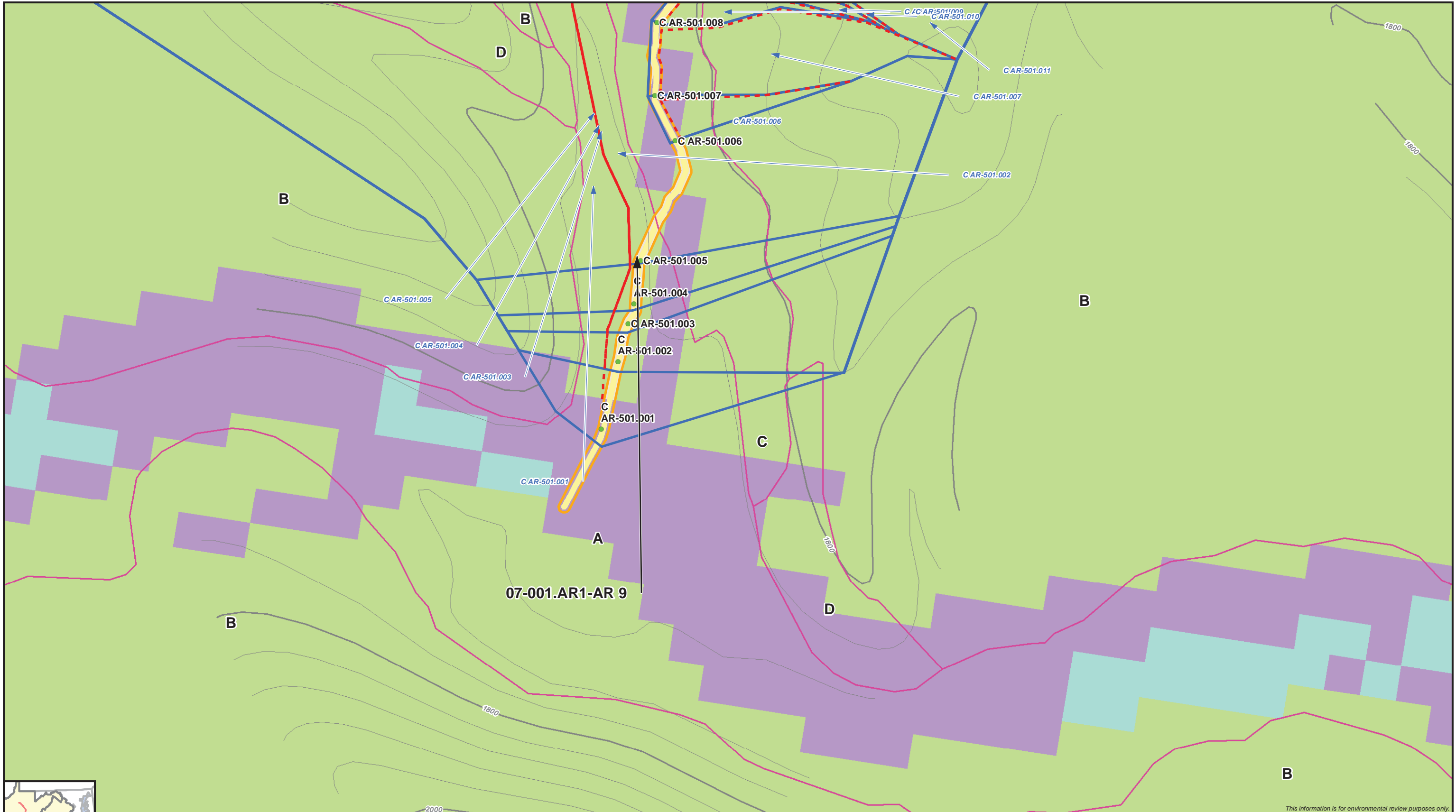


○ Milepost	--- Flow Path	Land Cover	■ Gravel
▭ Permanent Access Road ROW	— Major Contour	■ Developed, Open Space	■ Shrub
▭ Pipeline ROW	— Minor Contour	■ Forest	
▭ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			

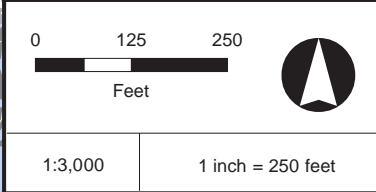
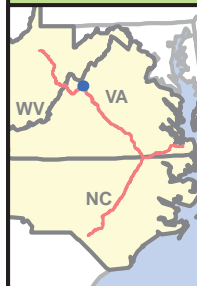


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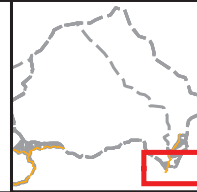


- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

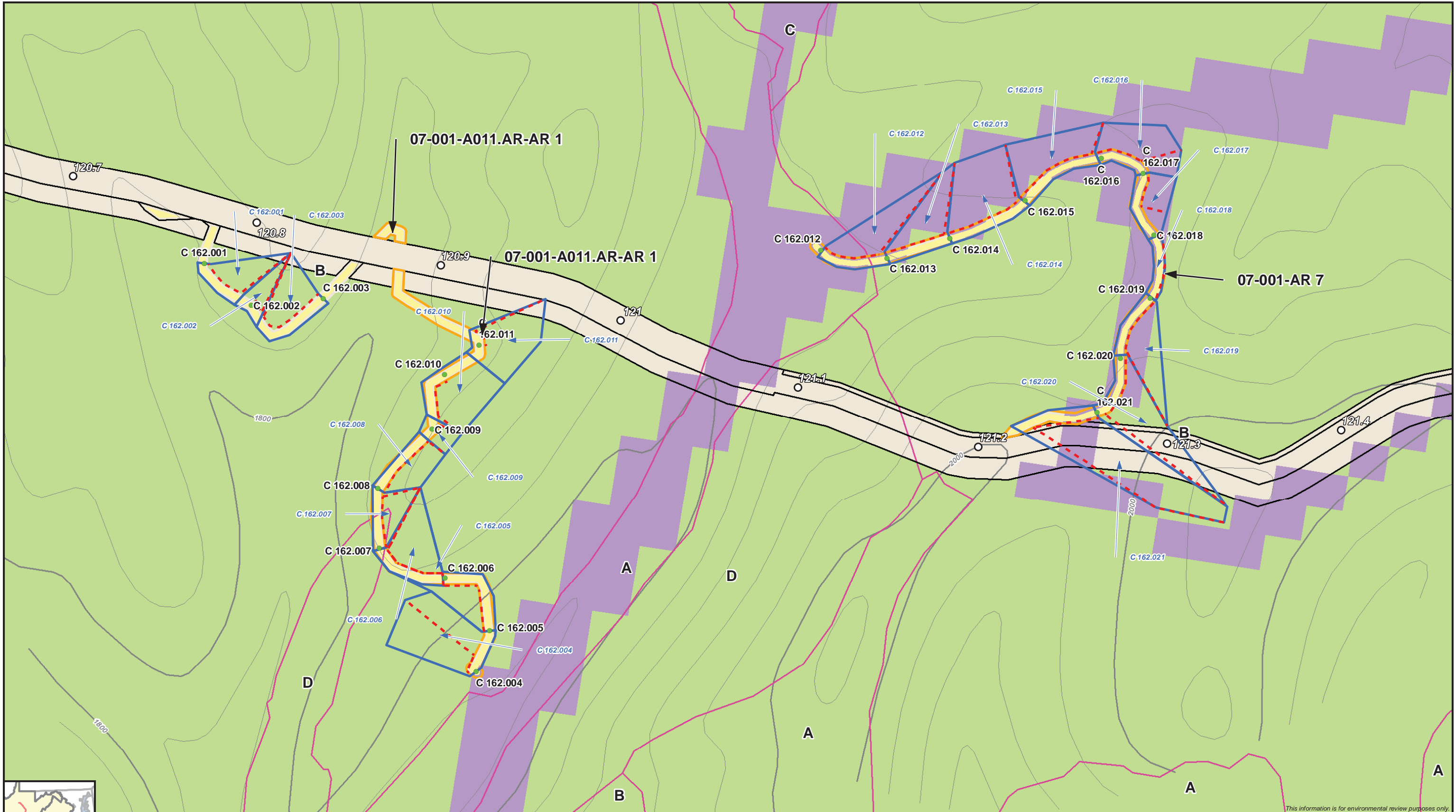
- Land Cover**
- Forest
 - Gravel
 - Shrub
 - Developed, Low Intensity
 - Developed, Open Space

Access Road Key →

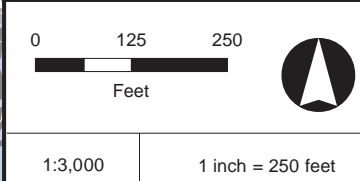
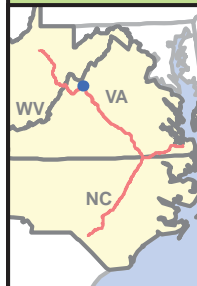


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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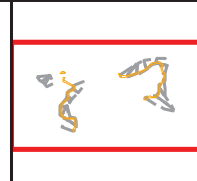
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Developed, Open Space
 - ▭ Forest

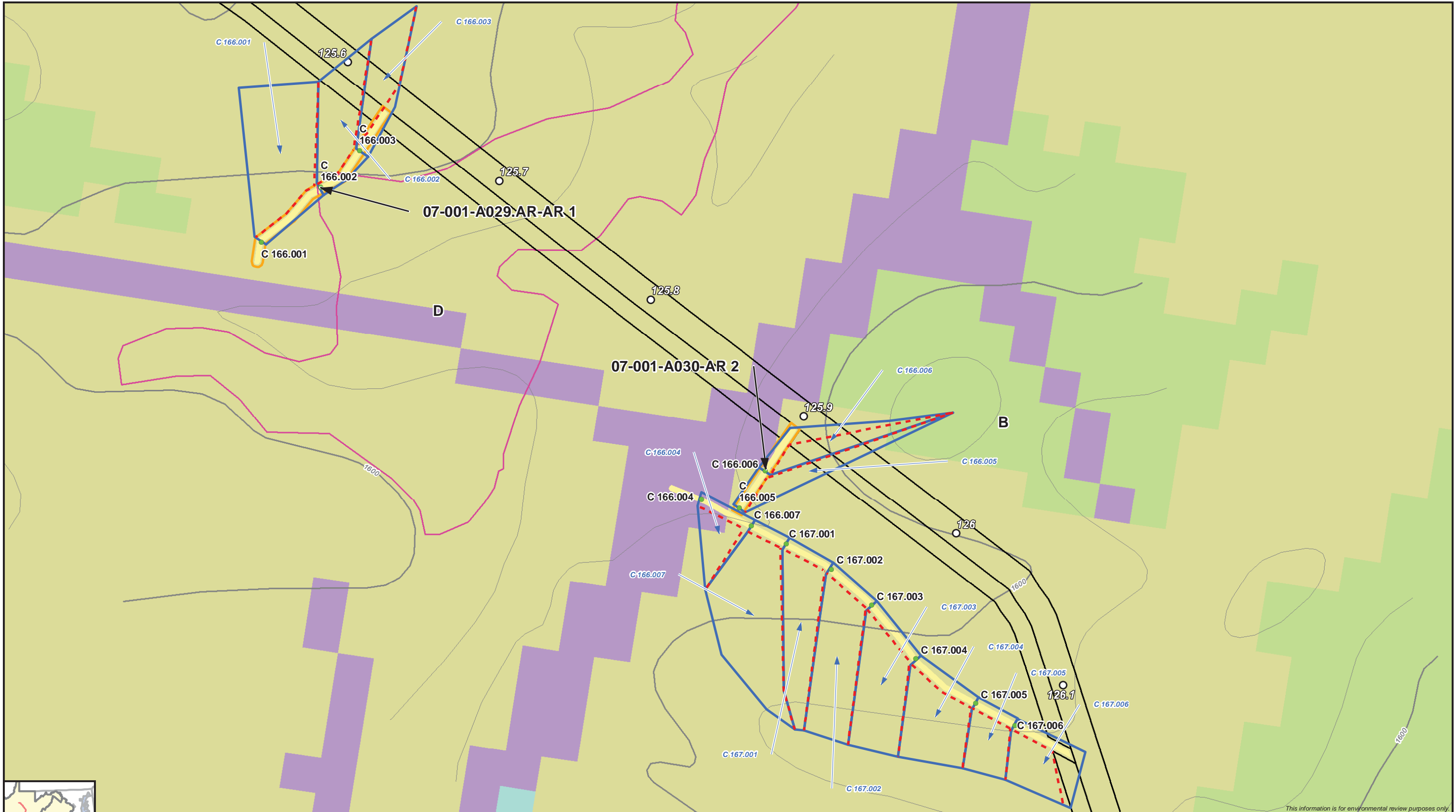
- ▭ Gravel
- ▭ Shrub

Access Road Key →

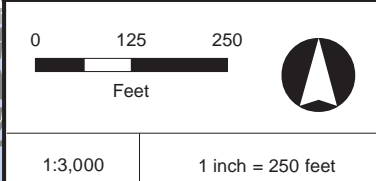


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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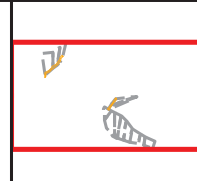


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel

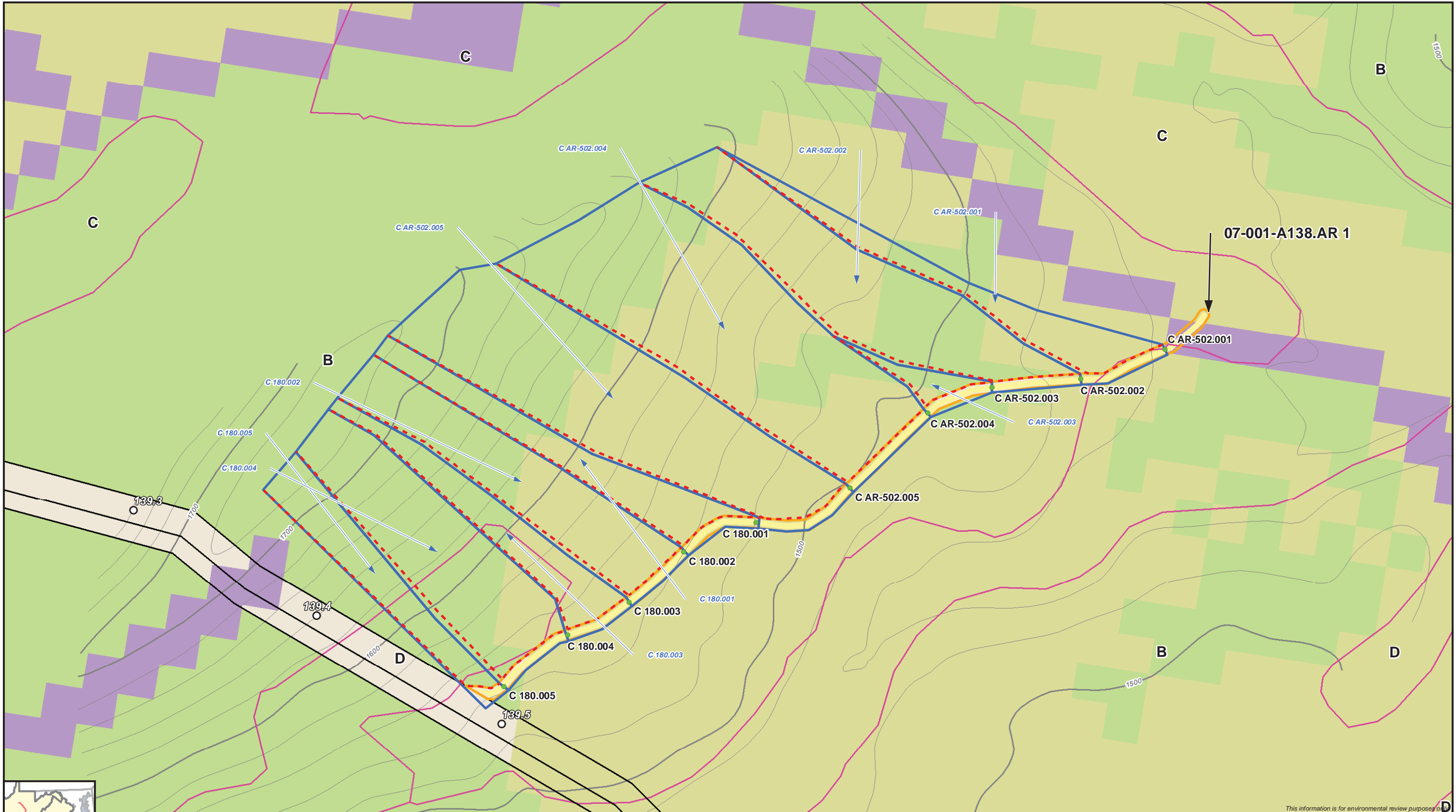
Access Road Key →



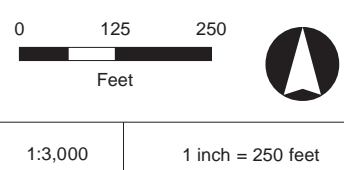
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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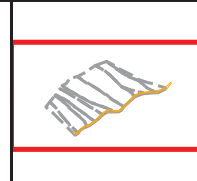


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

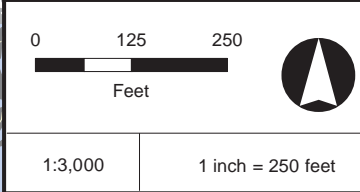
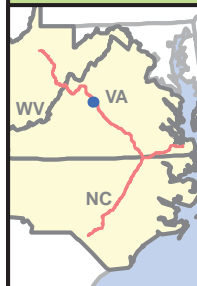
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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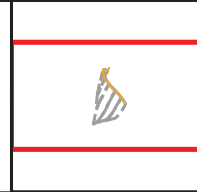


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Forest
 - Gravel
 - Shrub
 - Developed, Low Intensity
 - Developed, Open Space

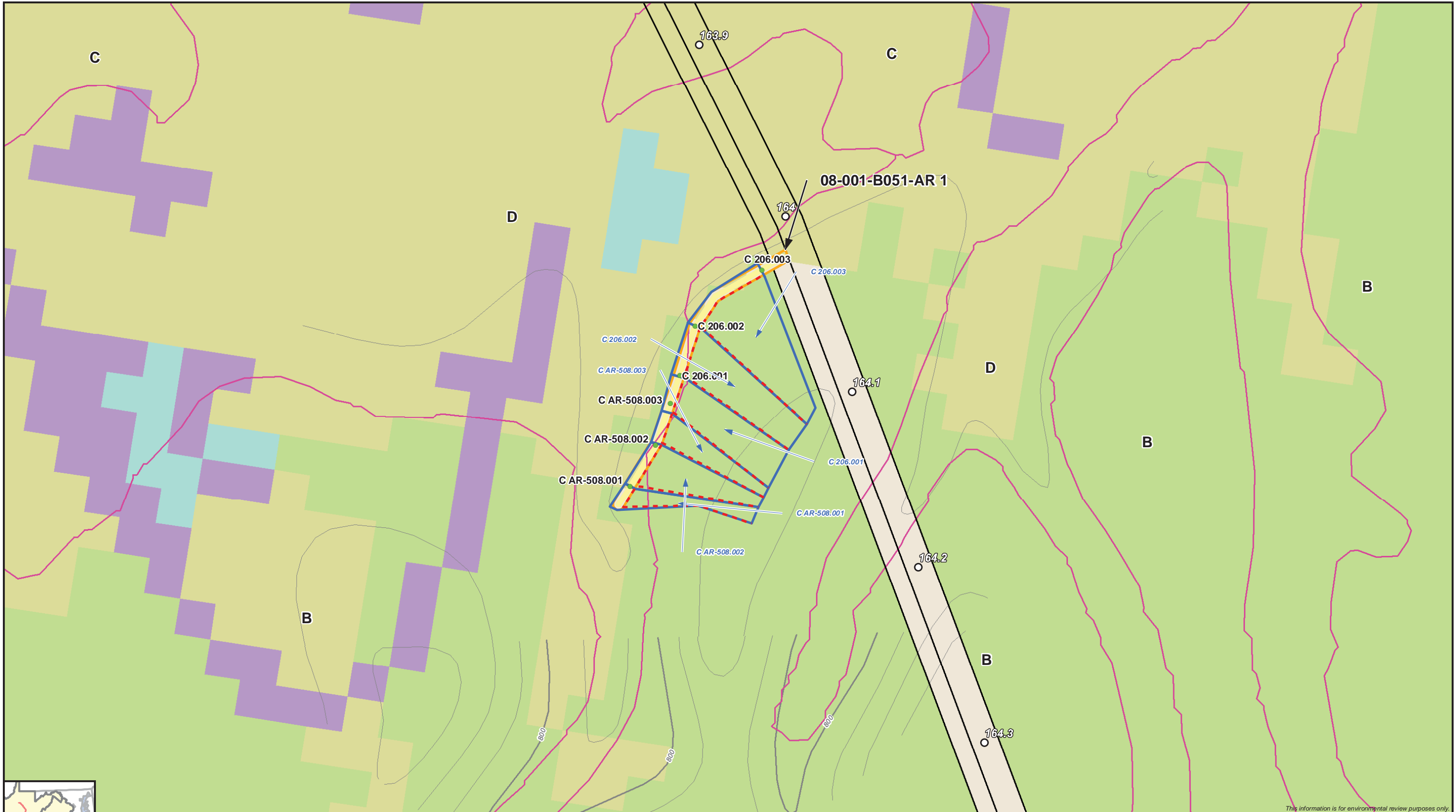
Access Road Key →



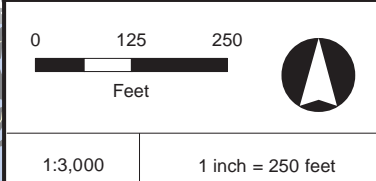
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Low Intensity
 - Developed, Open Space
 - Forest
 - Gravel
 - Shrub

Access Road Key →



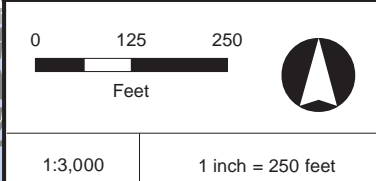
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

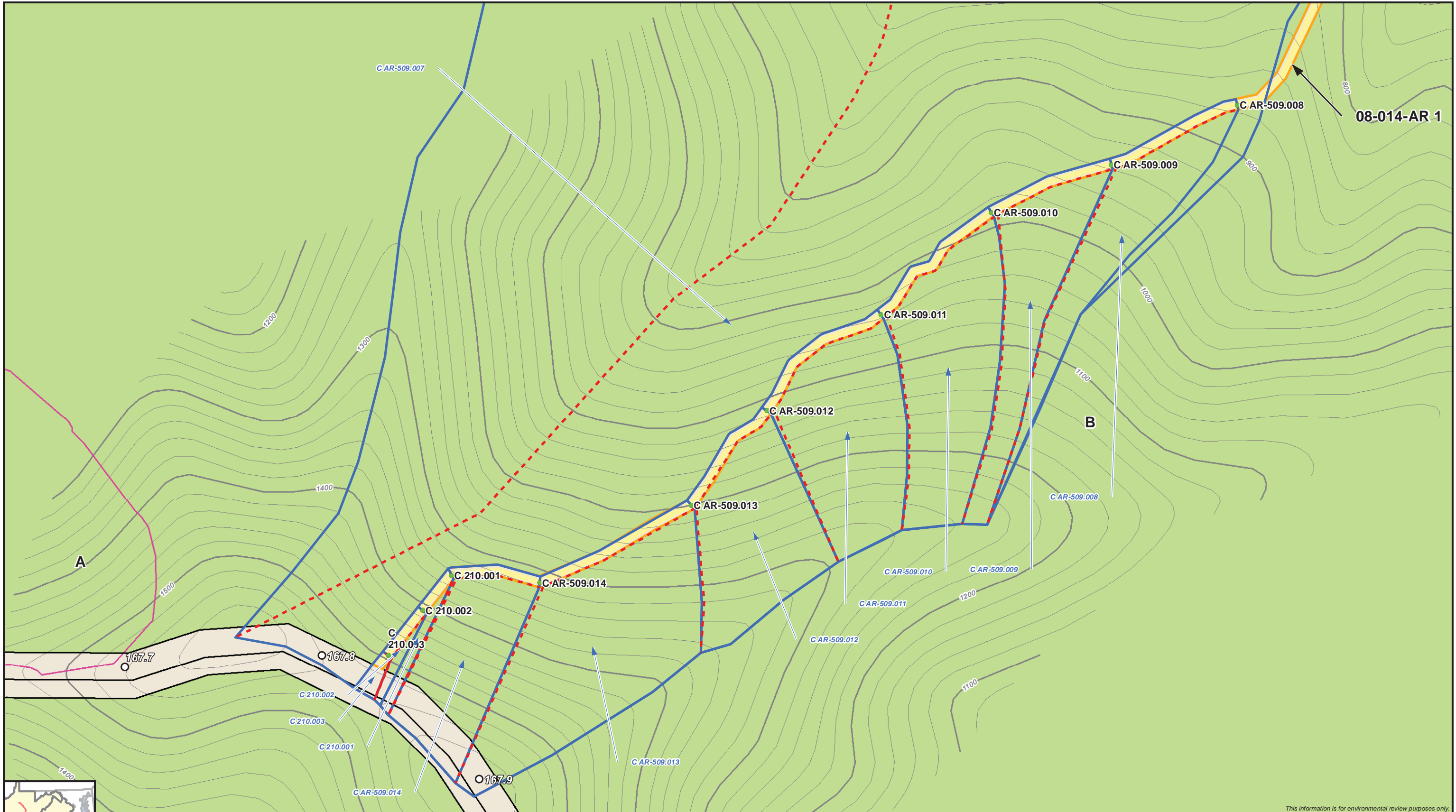
- - - Flow Path
 - Major Contour
 - Minor Contour
 - Ⓜ Hydrologic Soil Group
- Land Cover**
- Forest
 - Gravel
 - Shrub

Access Road Key →

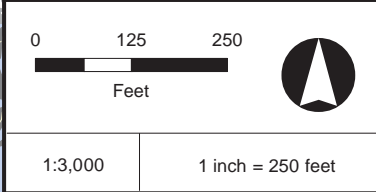


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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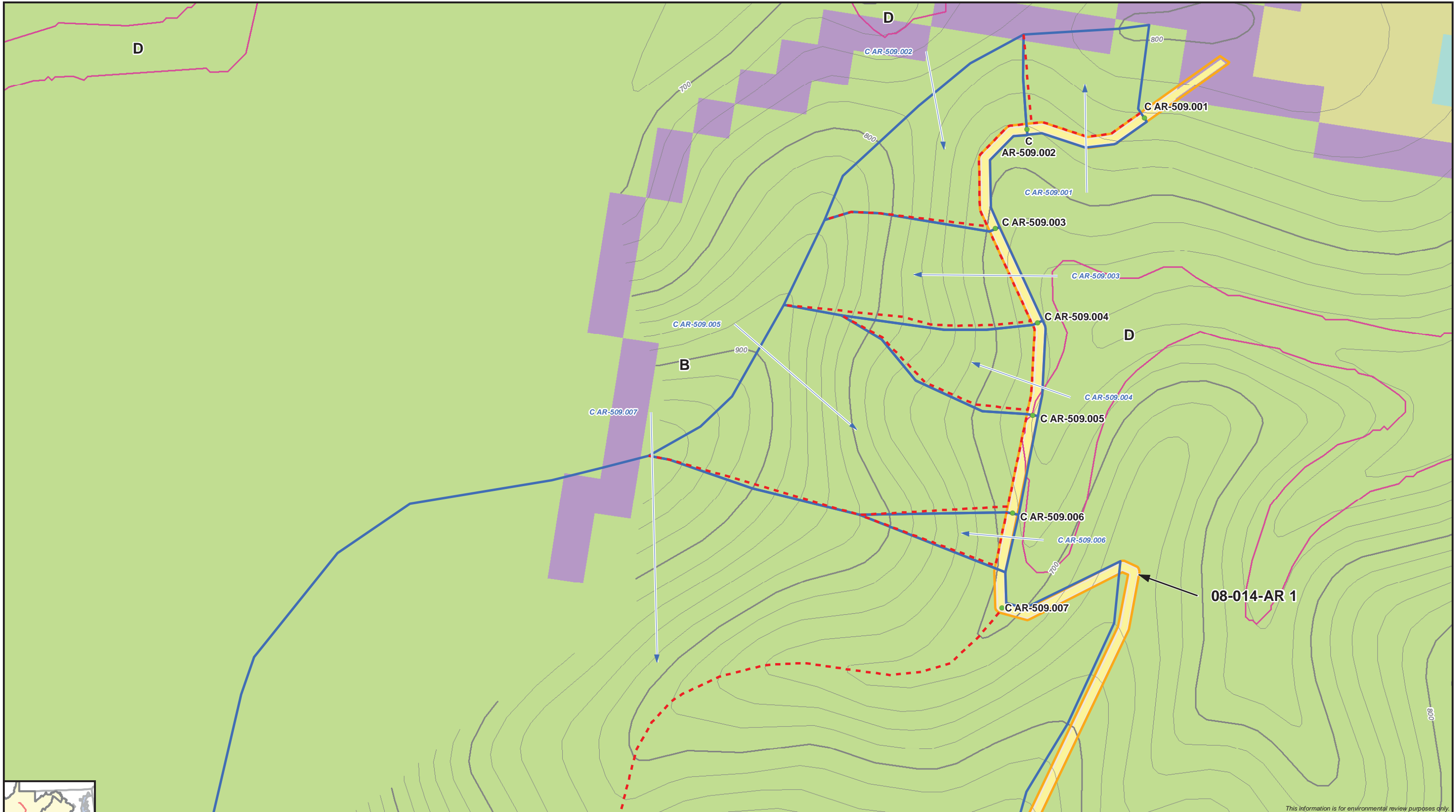
- | | | | |
|-----------------------------|-------------------------|-------------------|----------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Gravel |
| ■ Permanent Access Road ROW | — Major Contour | ■ Forest | ■ Shrub |
| ■ Pipeline ROW | — Minor Contour | | |
| ■ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

Access Road Key →

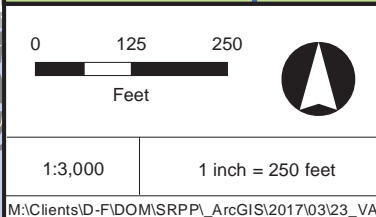


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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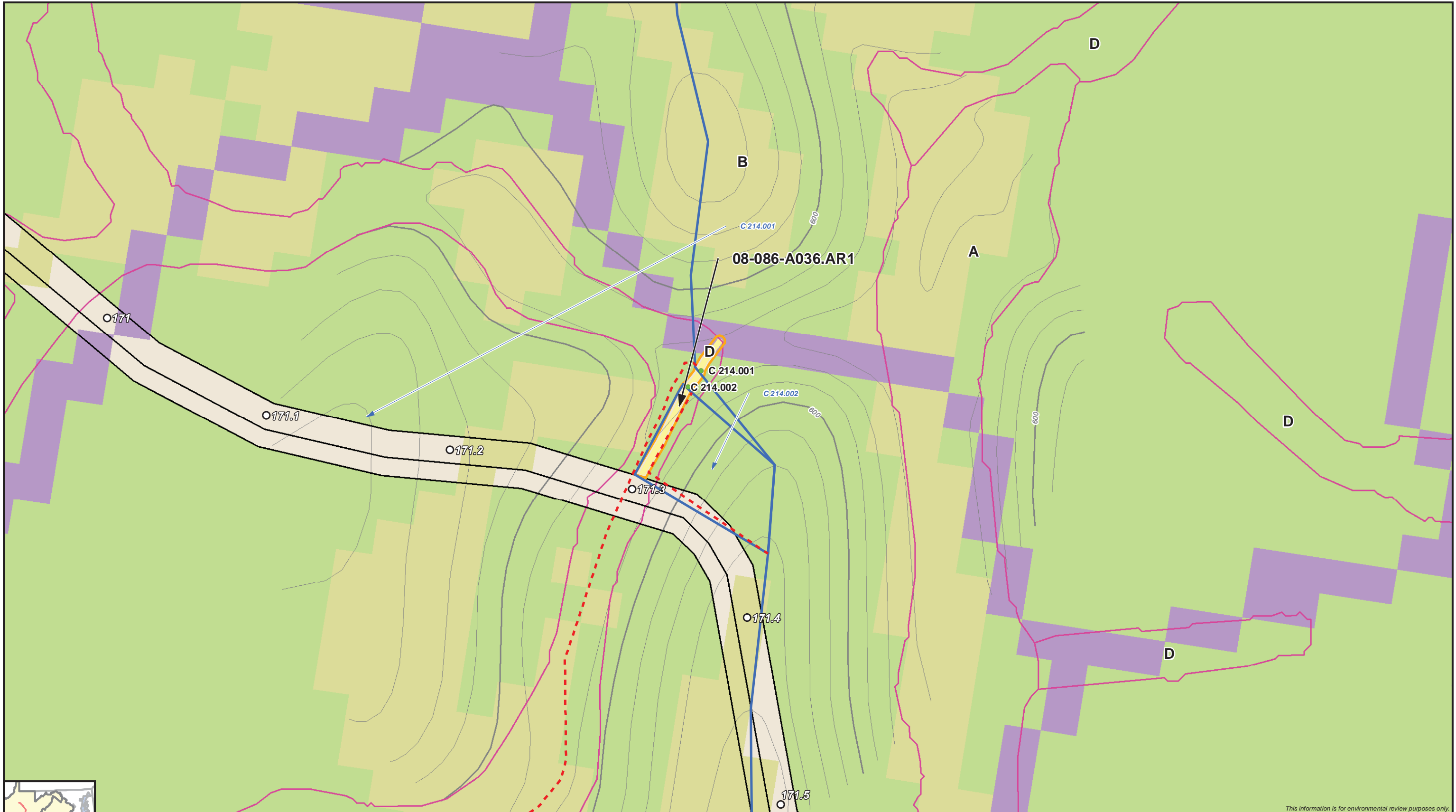
Permanent Access Road ROW	Flow Path	Land Cover	Forest
Culvert Drainage Area	Major Contour	Agriculture	Gravel
Culvert	Minor Contour	Developed, Low Intensity	Shrub
	Hydrologic Soil Group	Developed, Open Space	



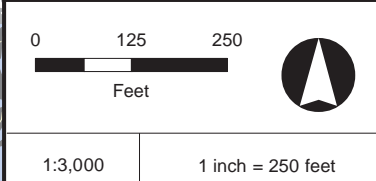
Page 59 of 118

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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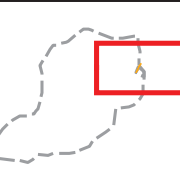


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →



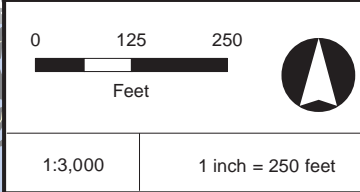
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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○ Milepost	--- Flow Path	Land Cover	■ Gravel
▭ Permanent Access Road ROW	— Major Contour	■ Developed, Open Space	■ Shrub
▭ Pipeline ROW	— Minor Contour	■ Forest	
▭ Culvert Drainage Area	■ Hydrologic Soil Group		
● Culvert			

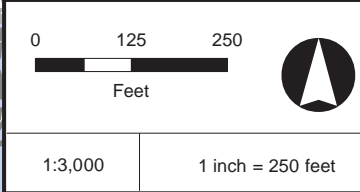


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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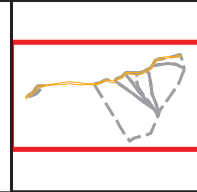


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

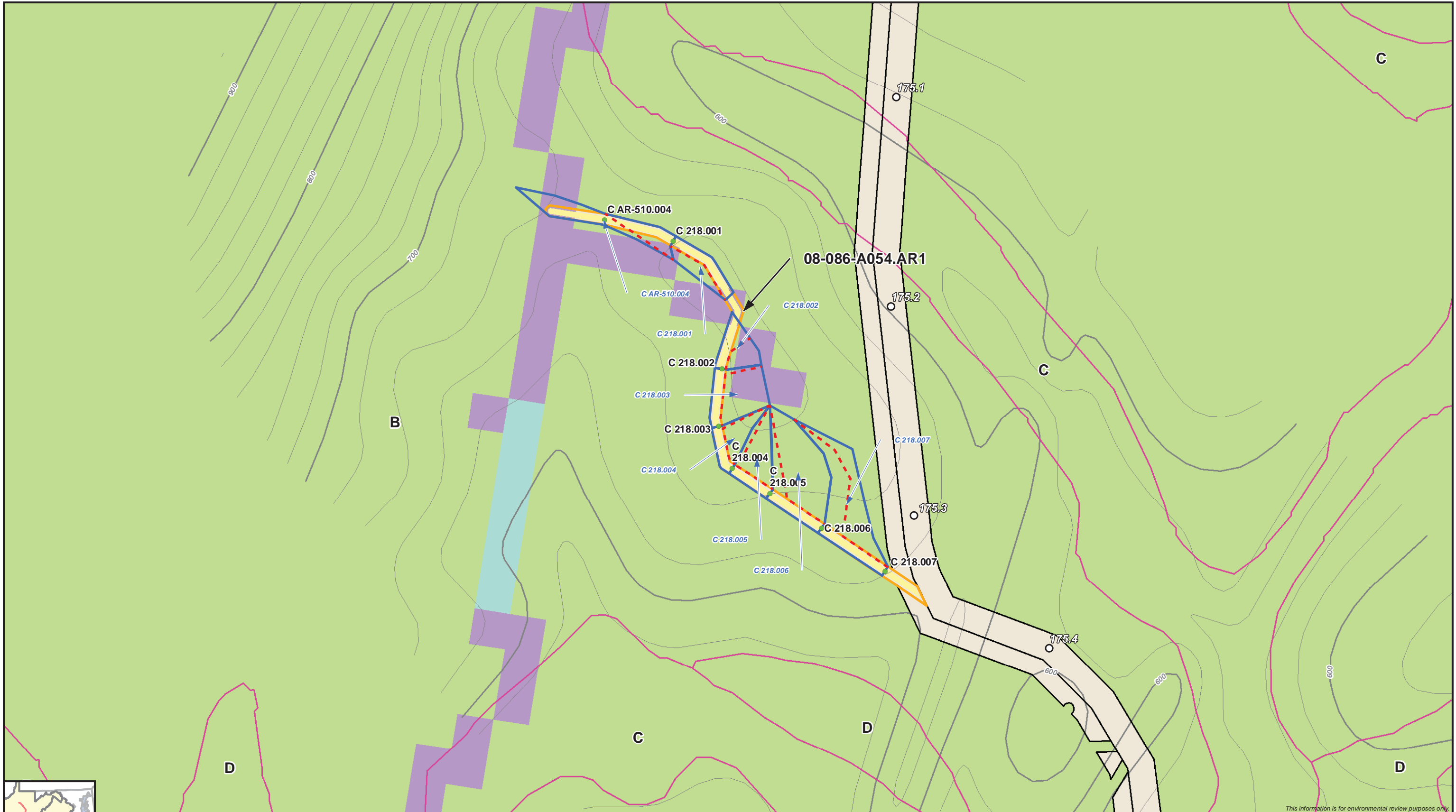
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →

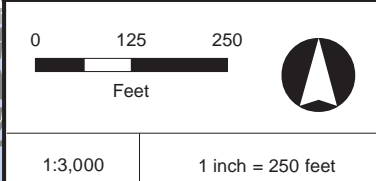


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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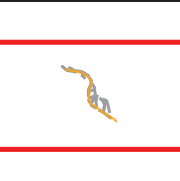


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

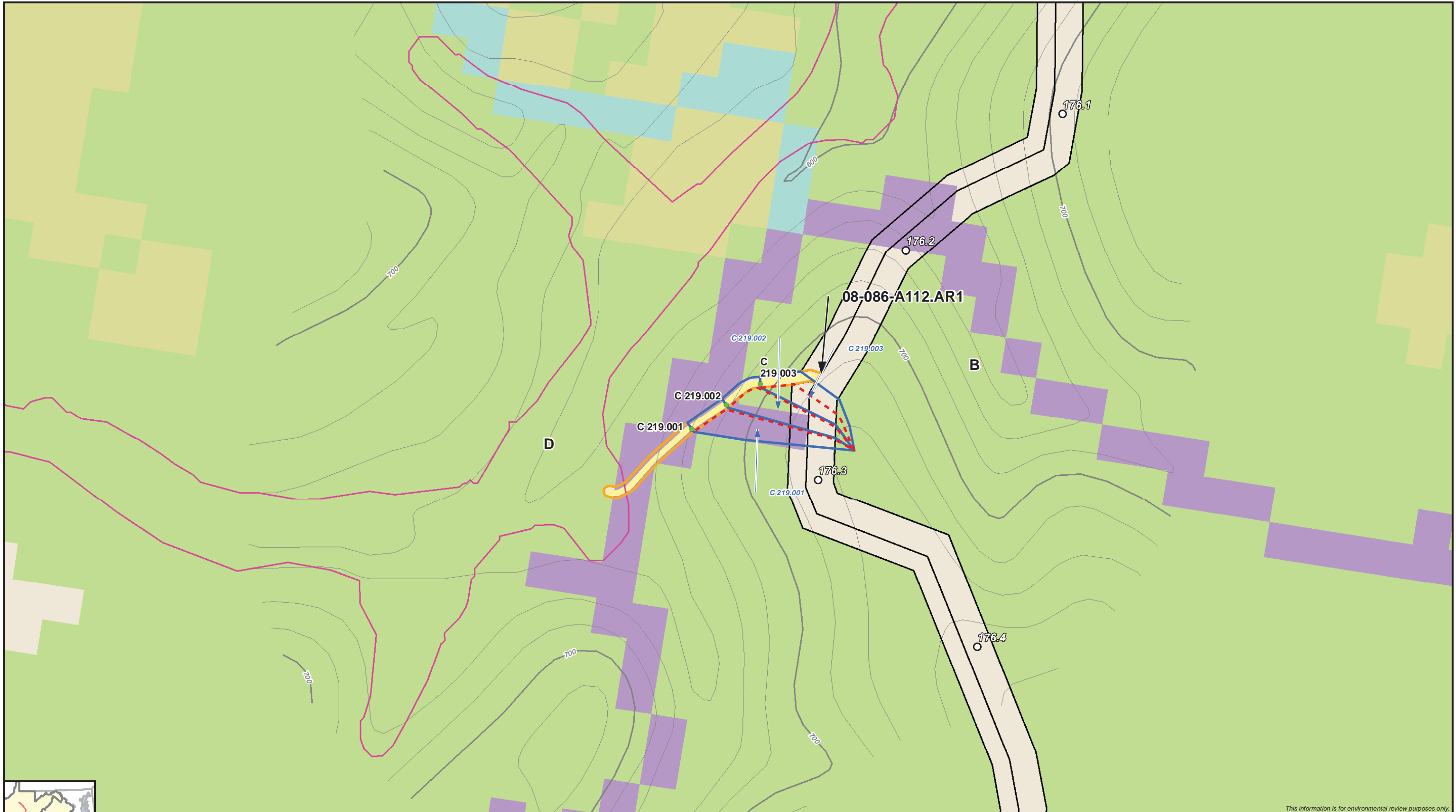
- Land Cover**
- ▭ Forest
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space
 - ▭ Gravel
 - ▭ Shrub

Access Road Key →

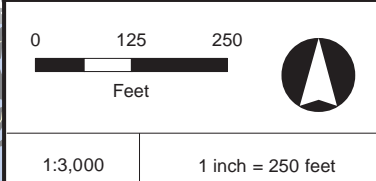


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





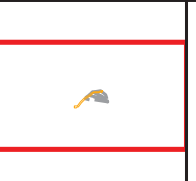
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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

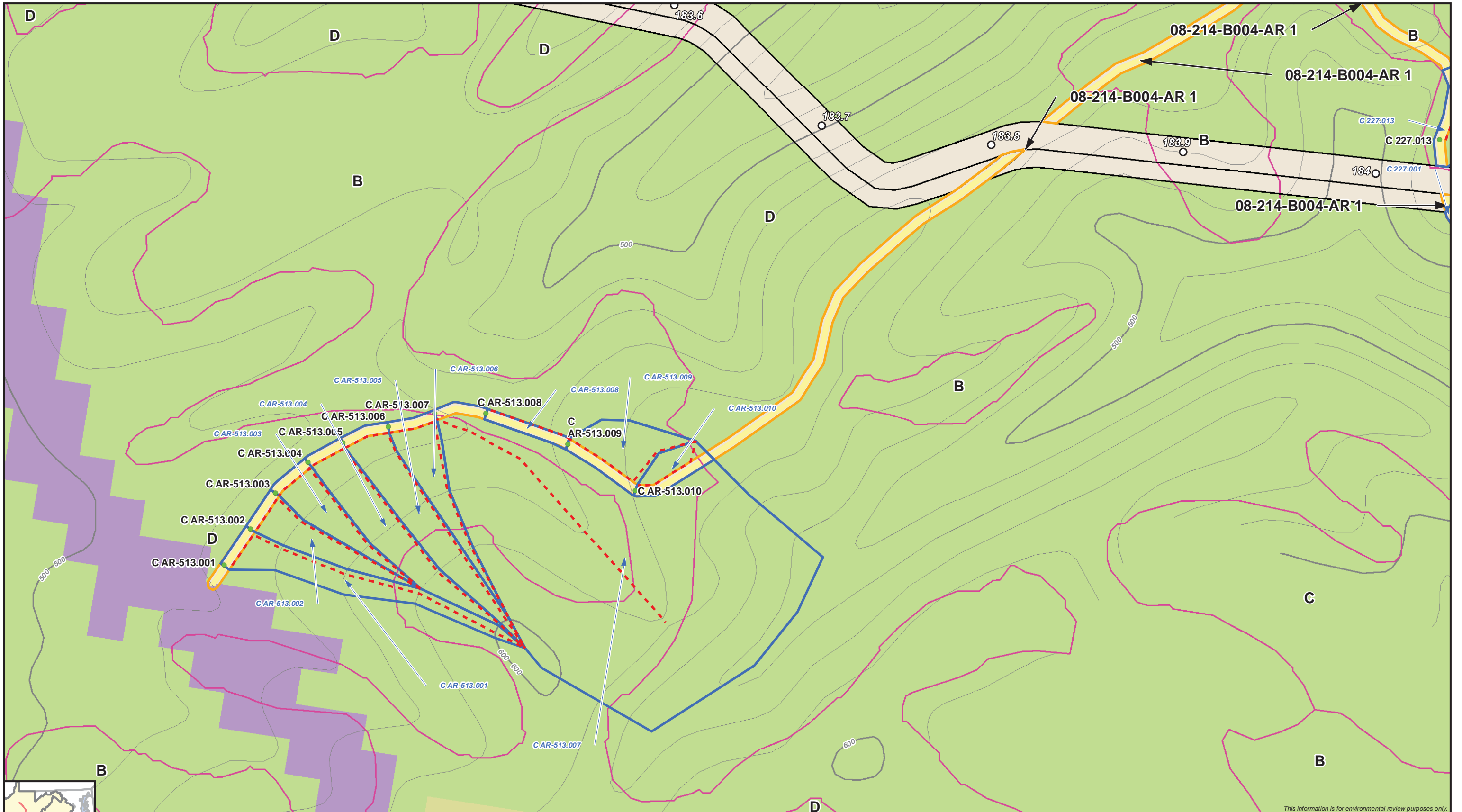
- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel
 - ▭ Shrub

Access Road Key →

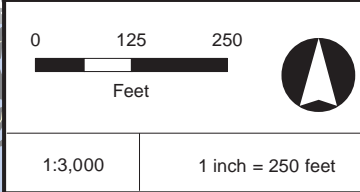


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

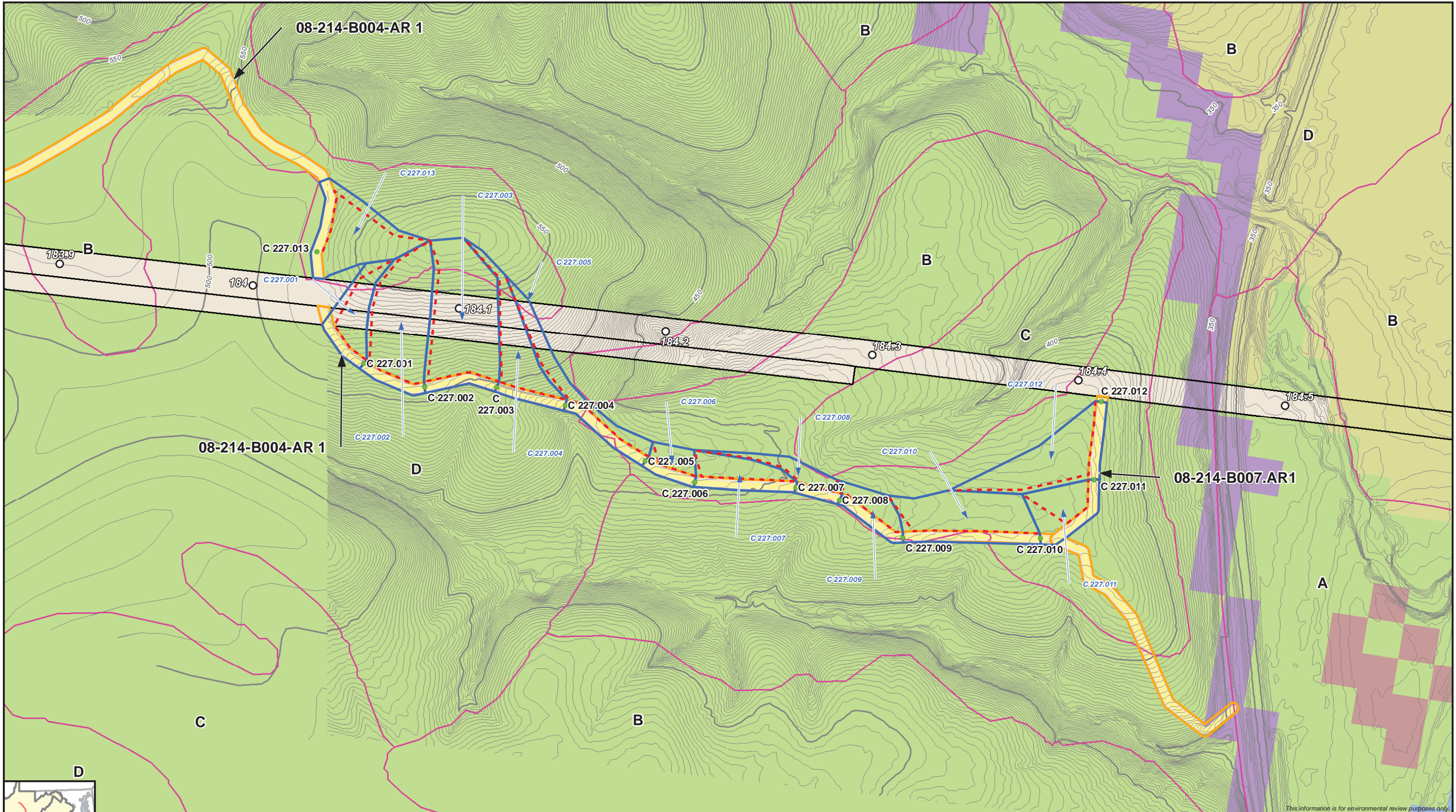
- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →

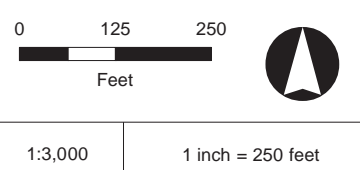
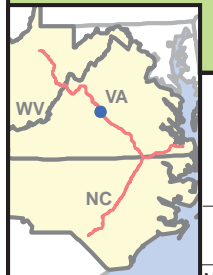


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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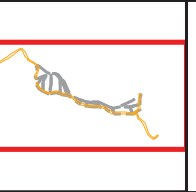
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands

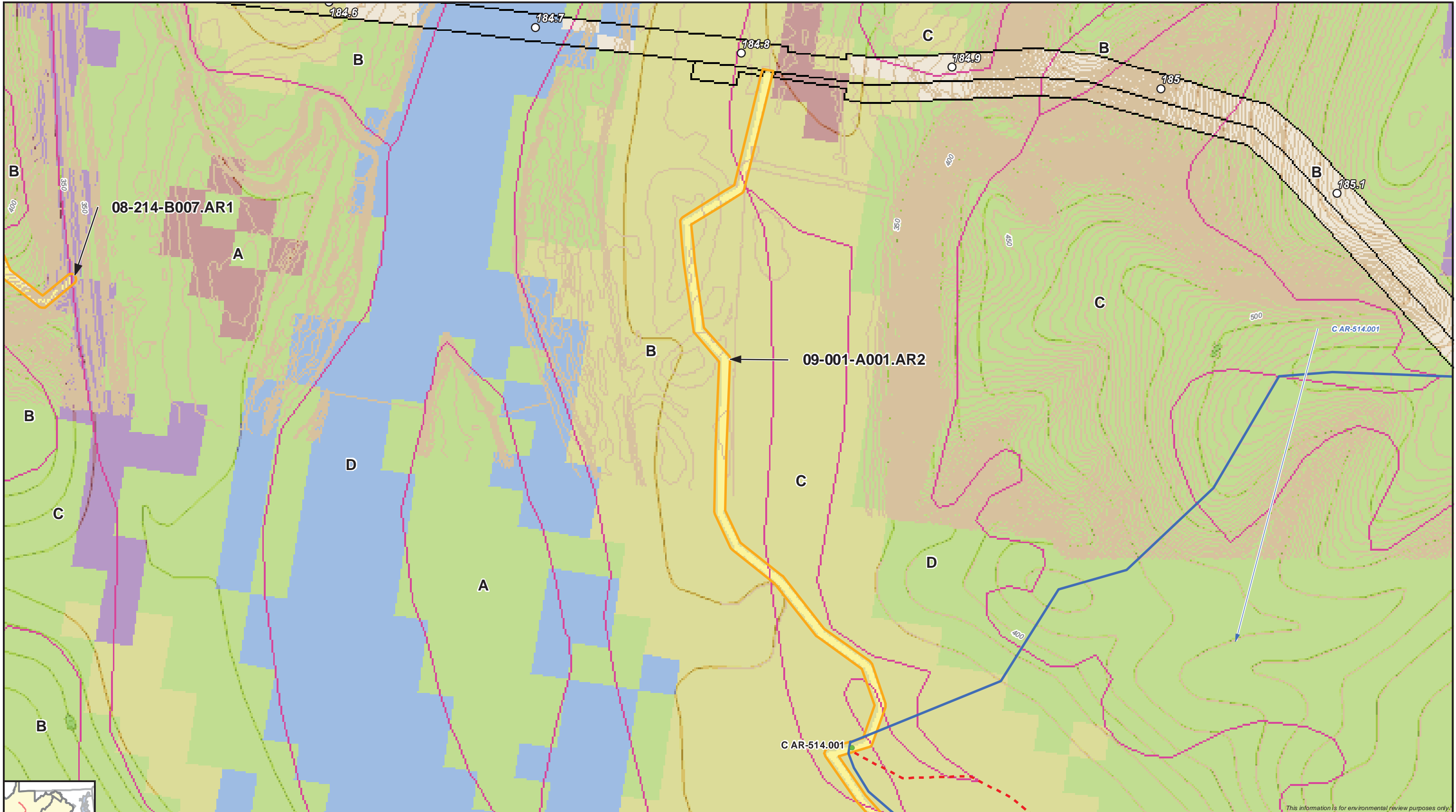
Access Road Key →



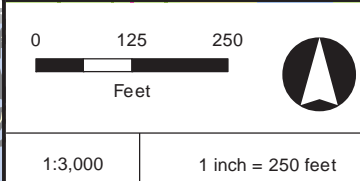
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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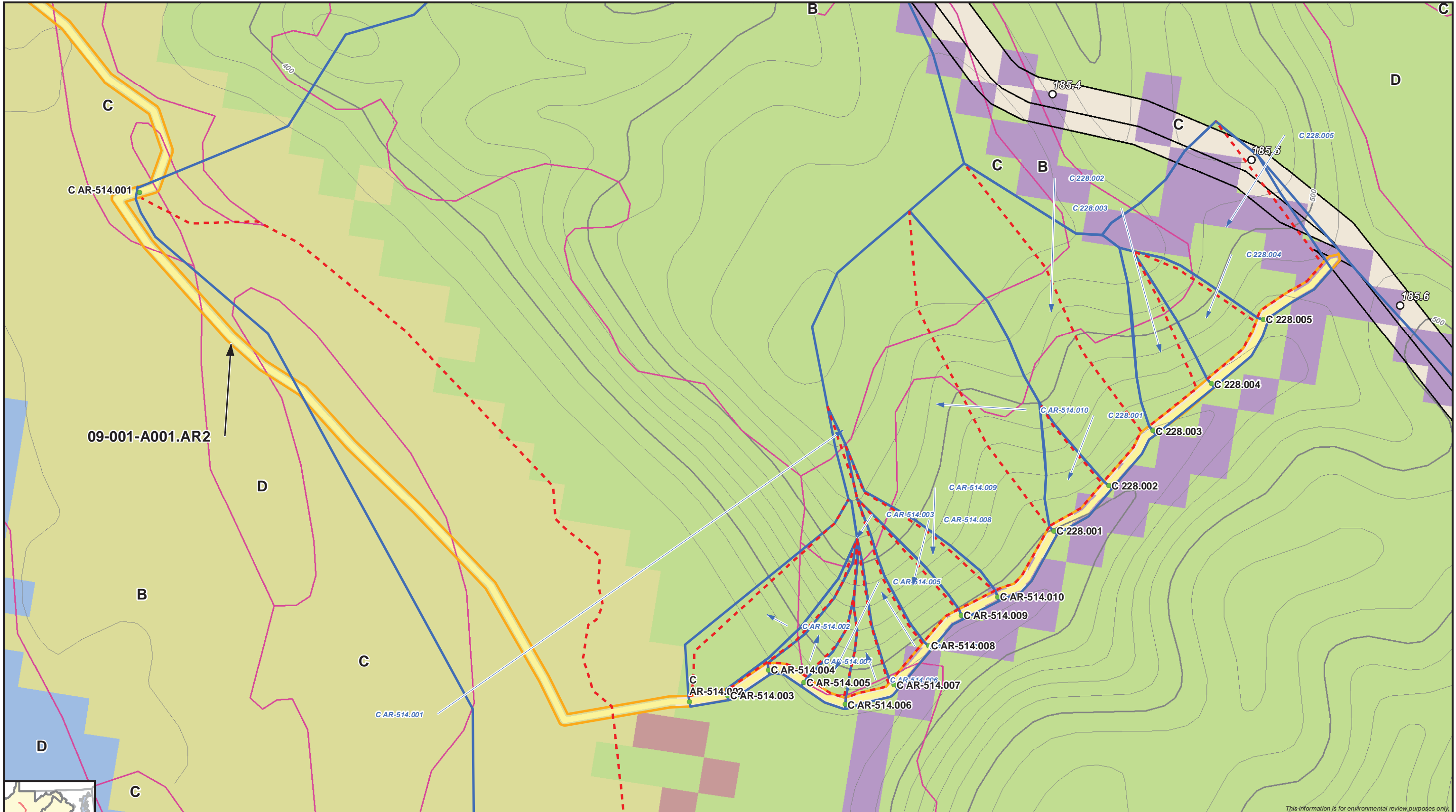
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Land Cover**
- ▭ Agriculture
- ▭ Developed, Open Space
- ▭ Forest
- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands
- ▭ Hydrologic Soil Group

Access Road Key →

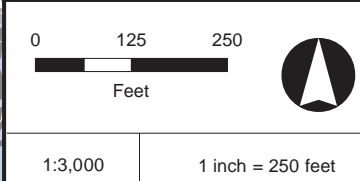


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

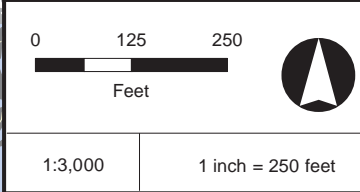
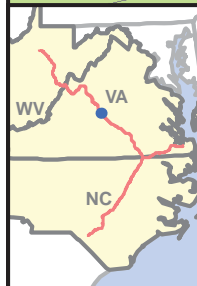
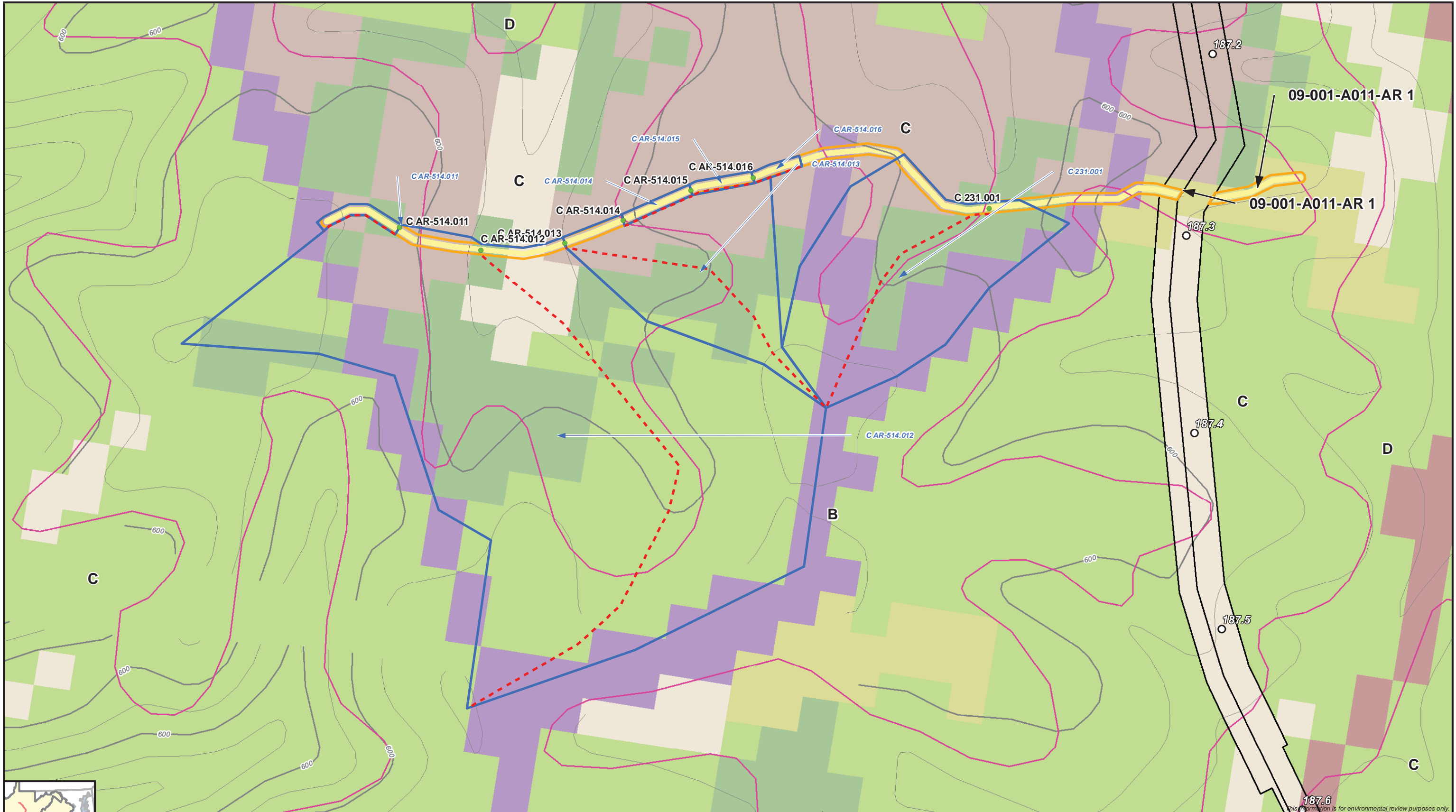
- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

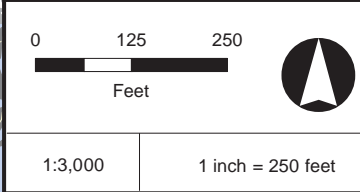
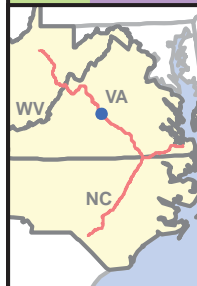
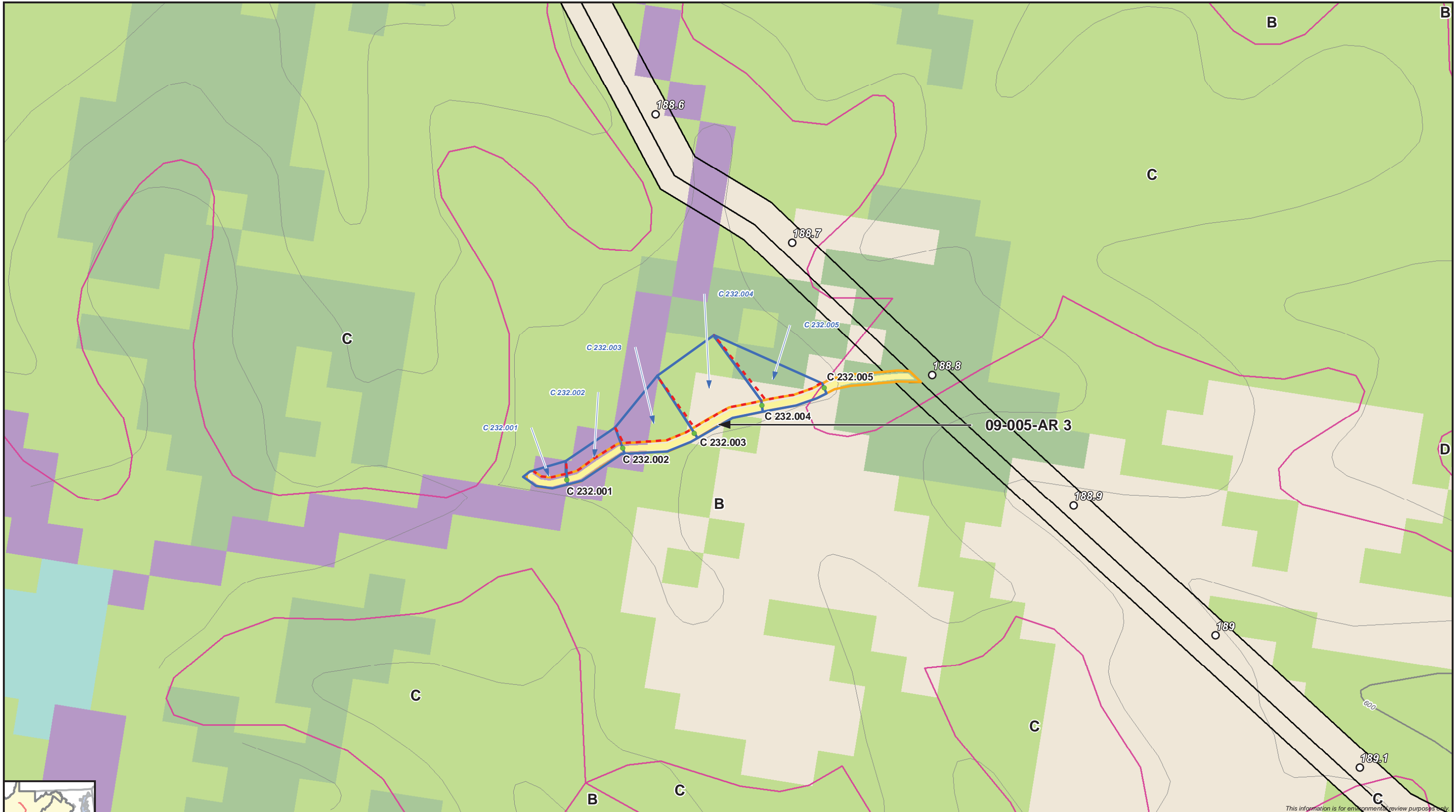
- Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Barren Land
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Shrub
 - ▭ Wetlands



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



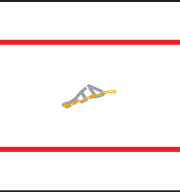


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- Barren Land
 - Developed, Low Intensity
 - Developed, Open Space
 - Forest
 - Grassland
 - Gravel
 - Shrub

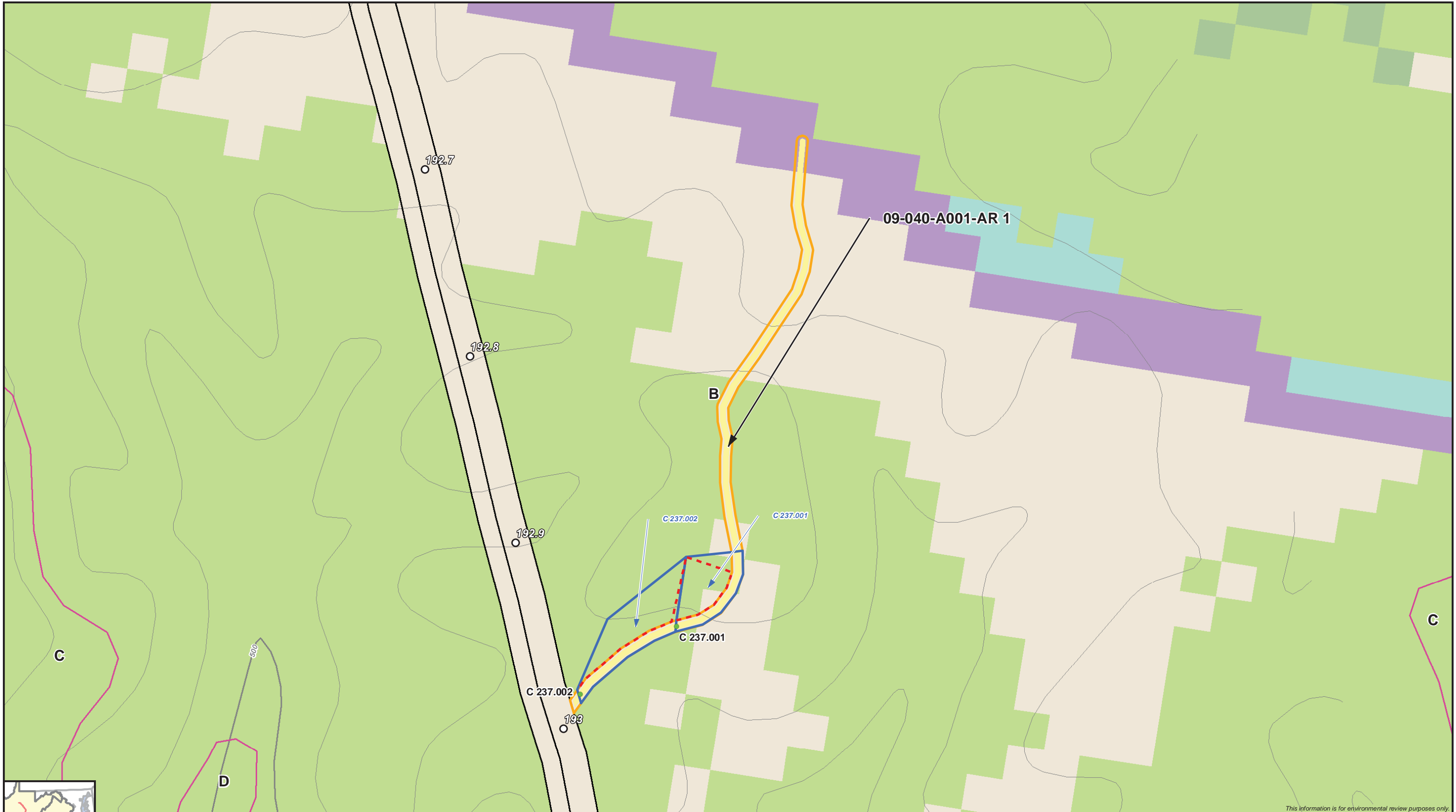
Access Road Key →



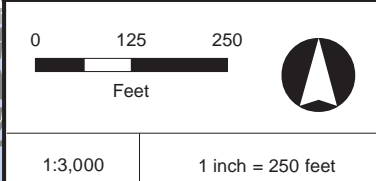
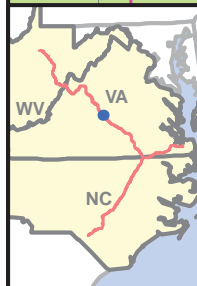
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

M:\Clients\F\DOM\SRPP\ArcGIS\2017\03\23_VA_DEQ_Watershed_Maps\20170518_Culverts\DOM_SRP_VA_DEQ_Maps_Culverts_Sizing_Post.mxd, REVISED: 6/7/2017

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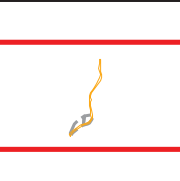


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

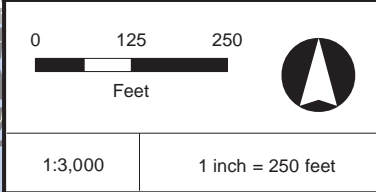
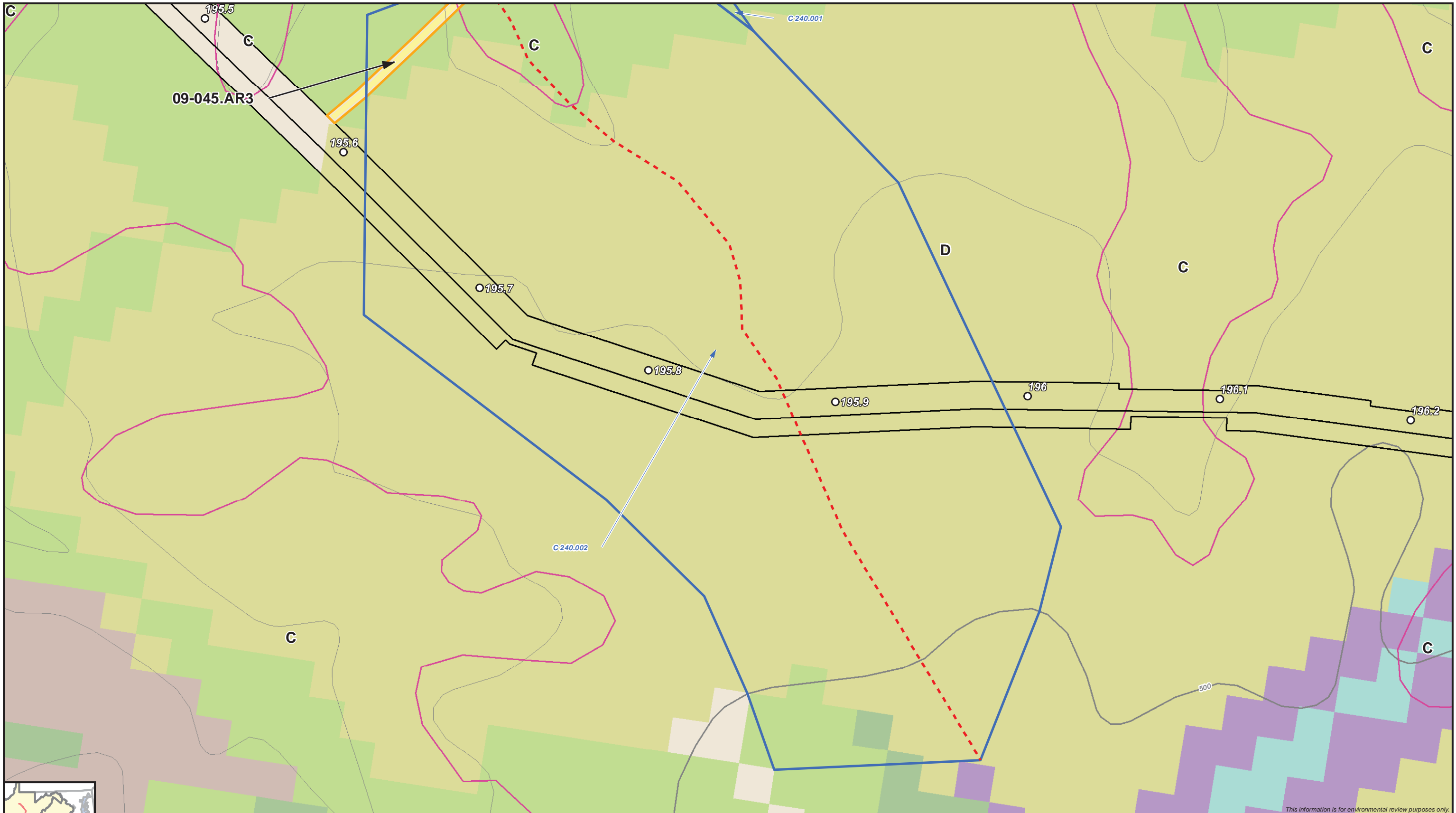
- Land Cover**
- ▭ Developed, Low Intensity
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Shrub

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





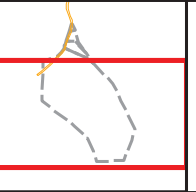
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area

- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Barren Land
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space

- ▭ Forest
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub

Access Road Key →

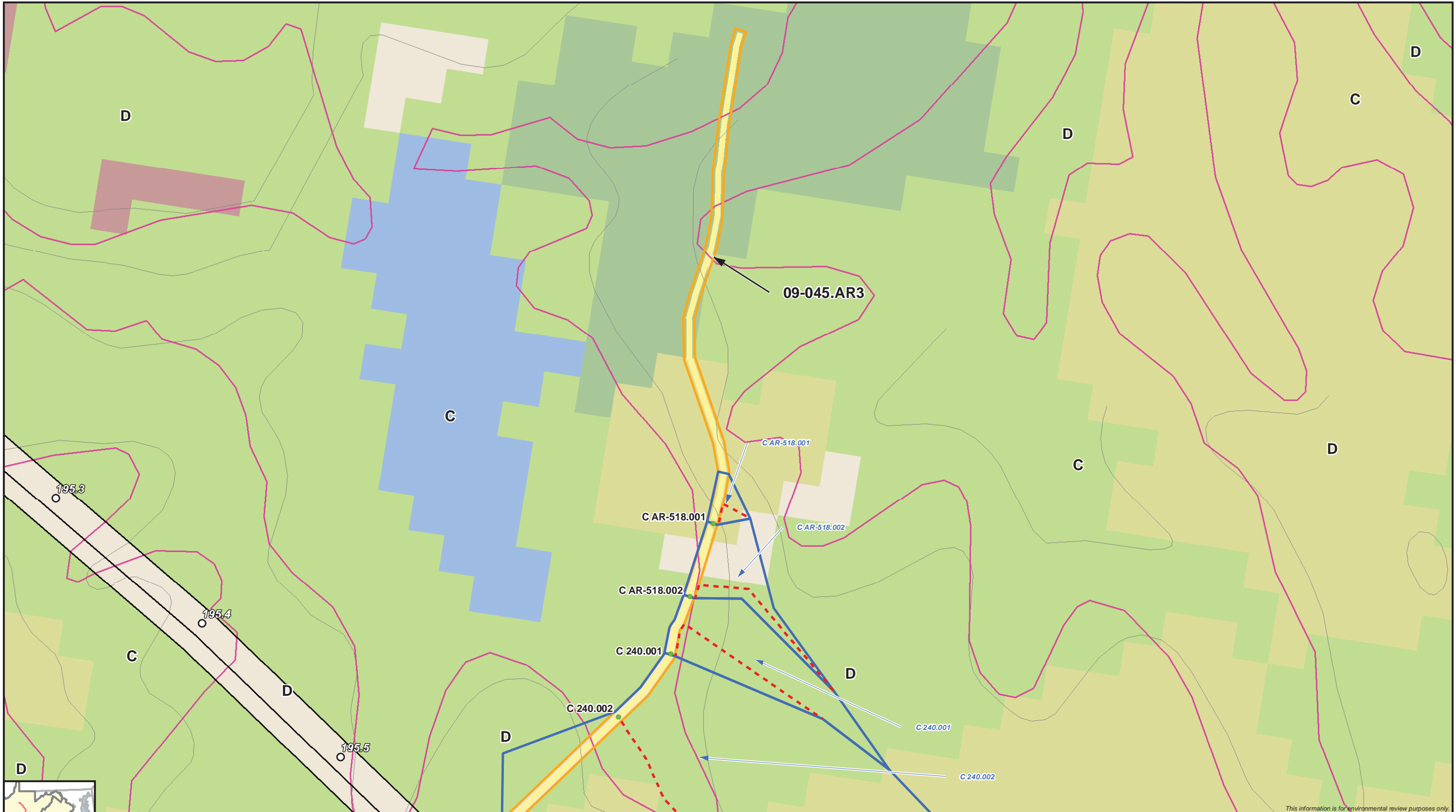


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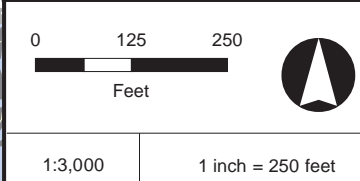
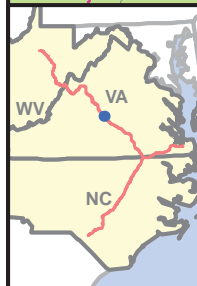
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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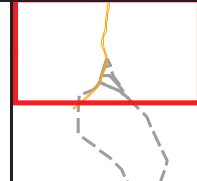


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Minor Contour
- ▭ Hydrologic Soil Group

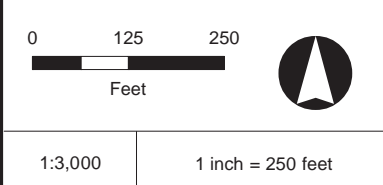
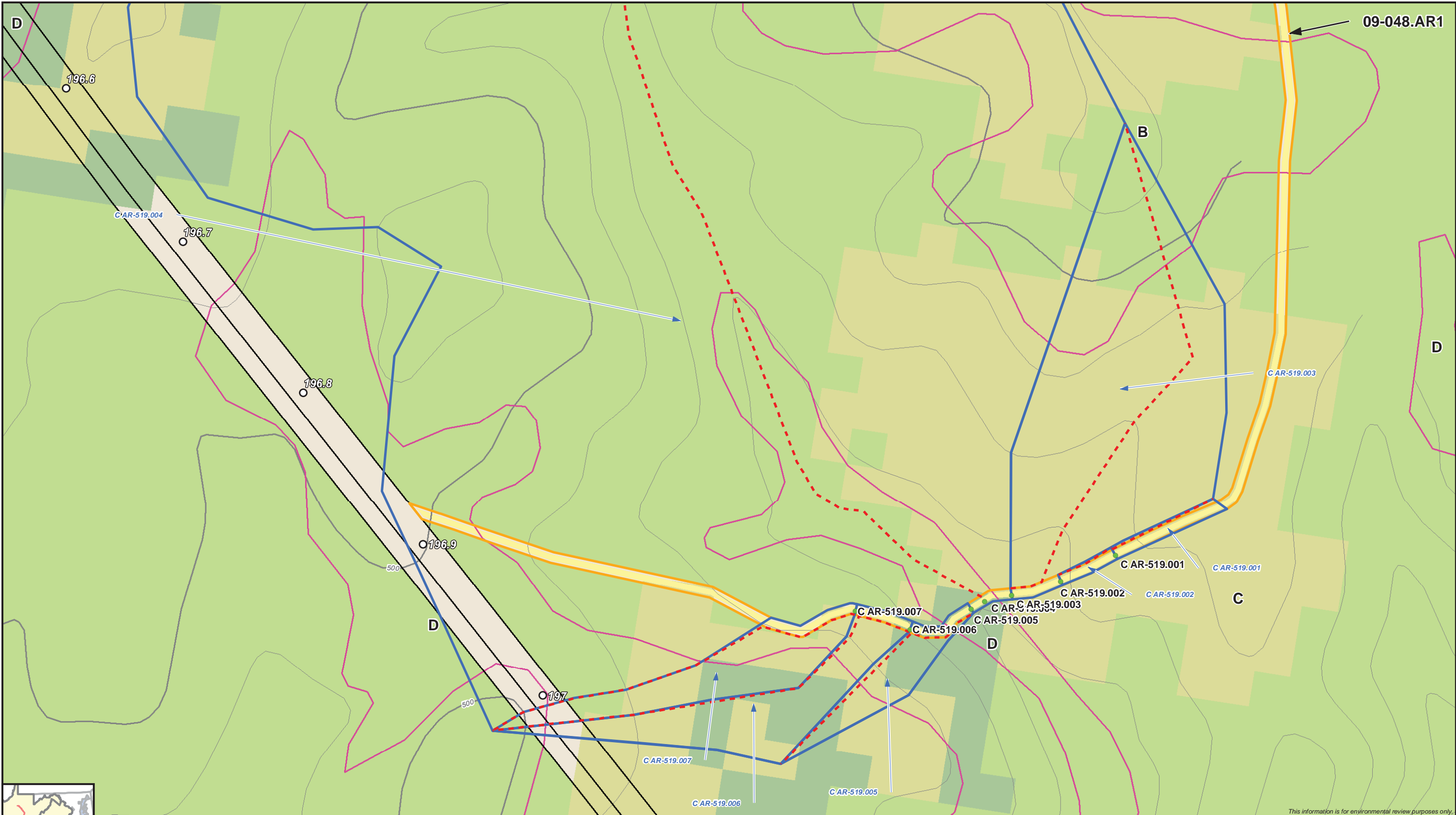
- Land Cover**
- ▭ Agriculture
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Open Water
 - ▭ Shrub
 - ▭ Wetlands

Access Road Key →



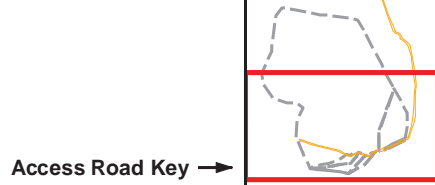
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





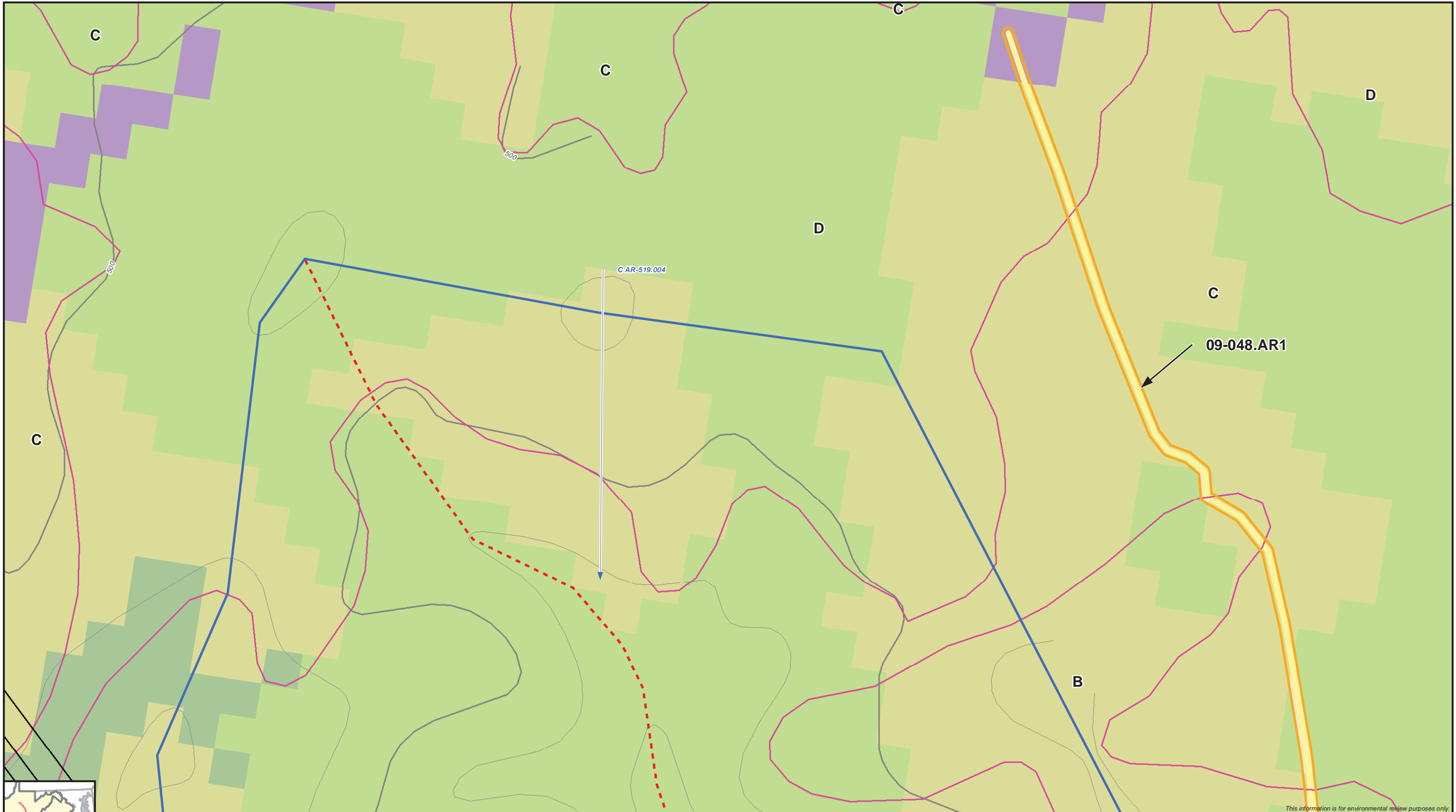
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Shrub

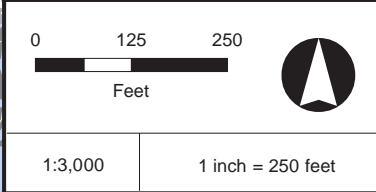


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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- Permanent Access Road ROW
- Pipeline ROW
- Culvert Drainage Area

- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest

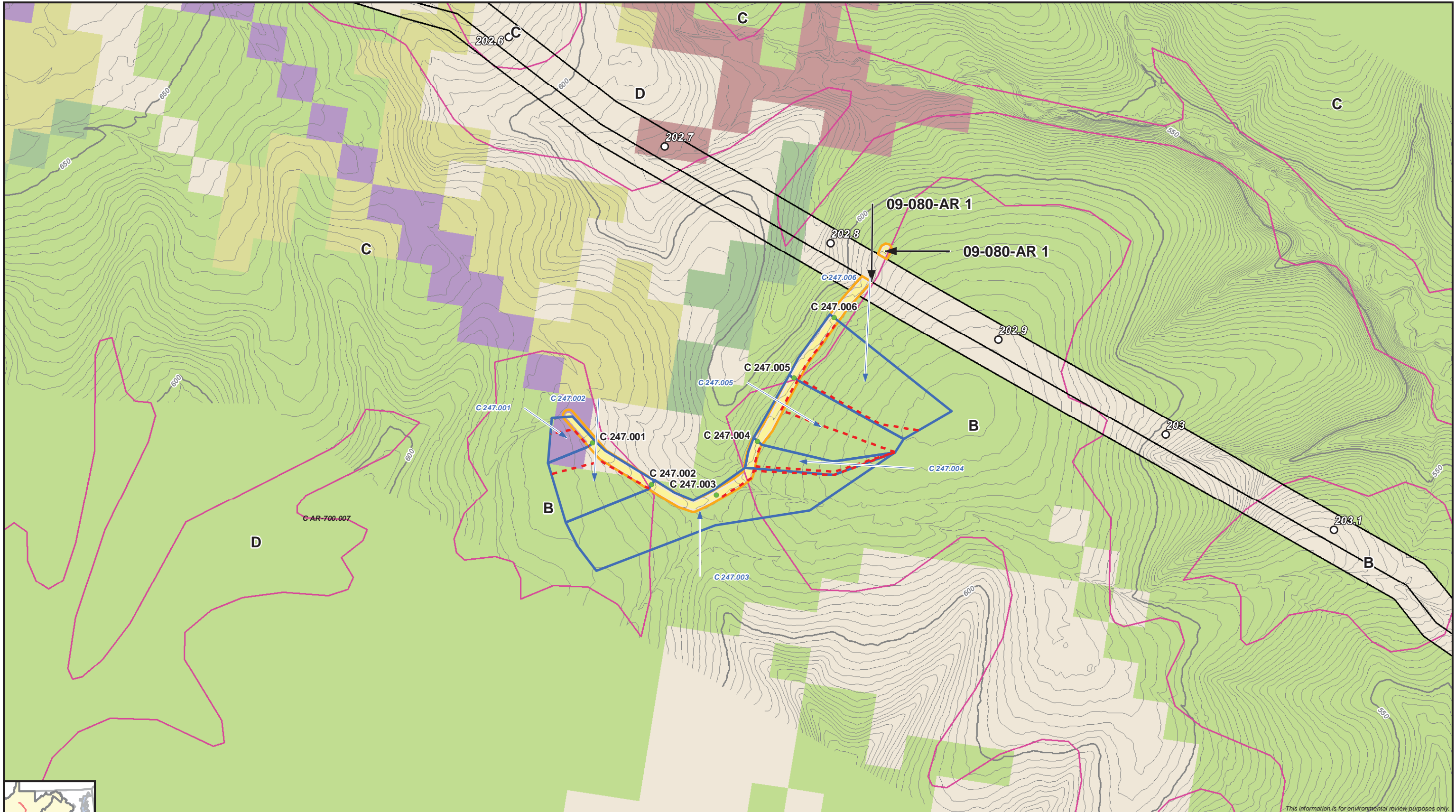
- Grassland
- Gravel
- Shrub

Access Road Key →

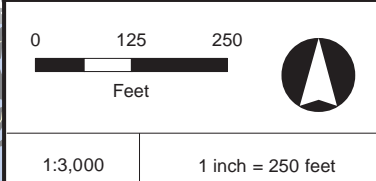


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

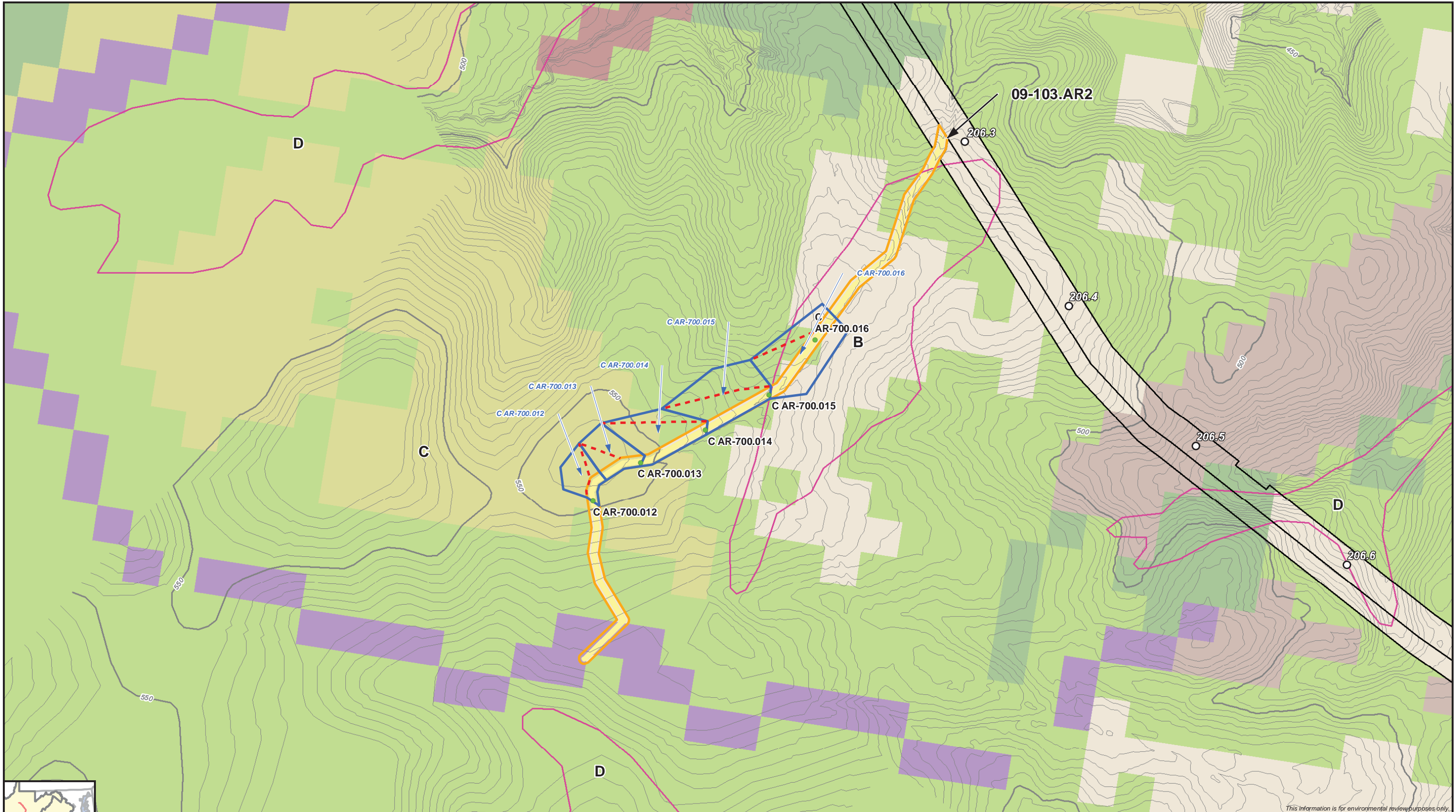
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

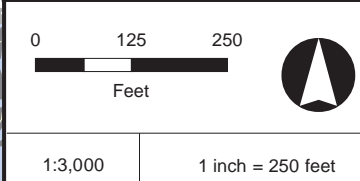


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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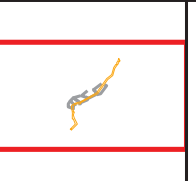
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Barren Land
 - ▭ Developed, Open Space
 - ▭ Forest

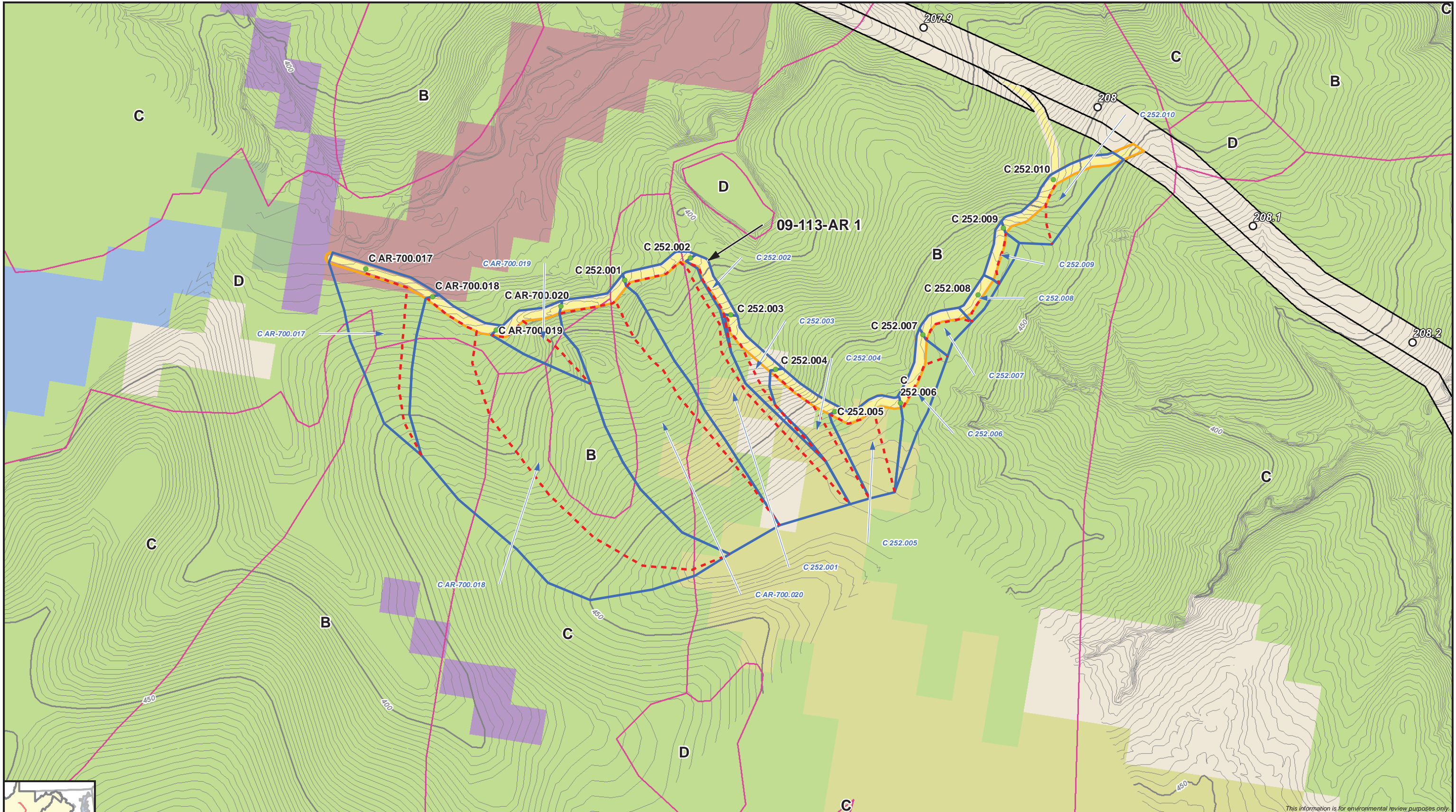
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

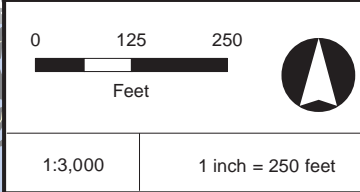


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

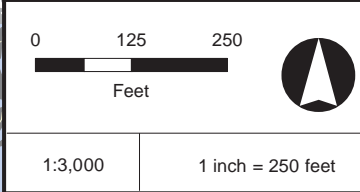
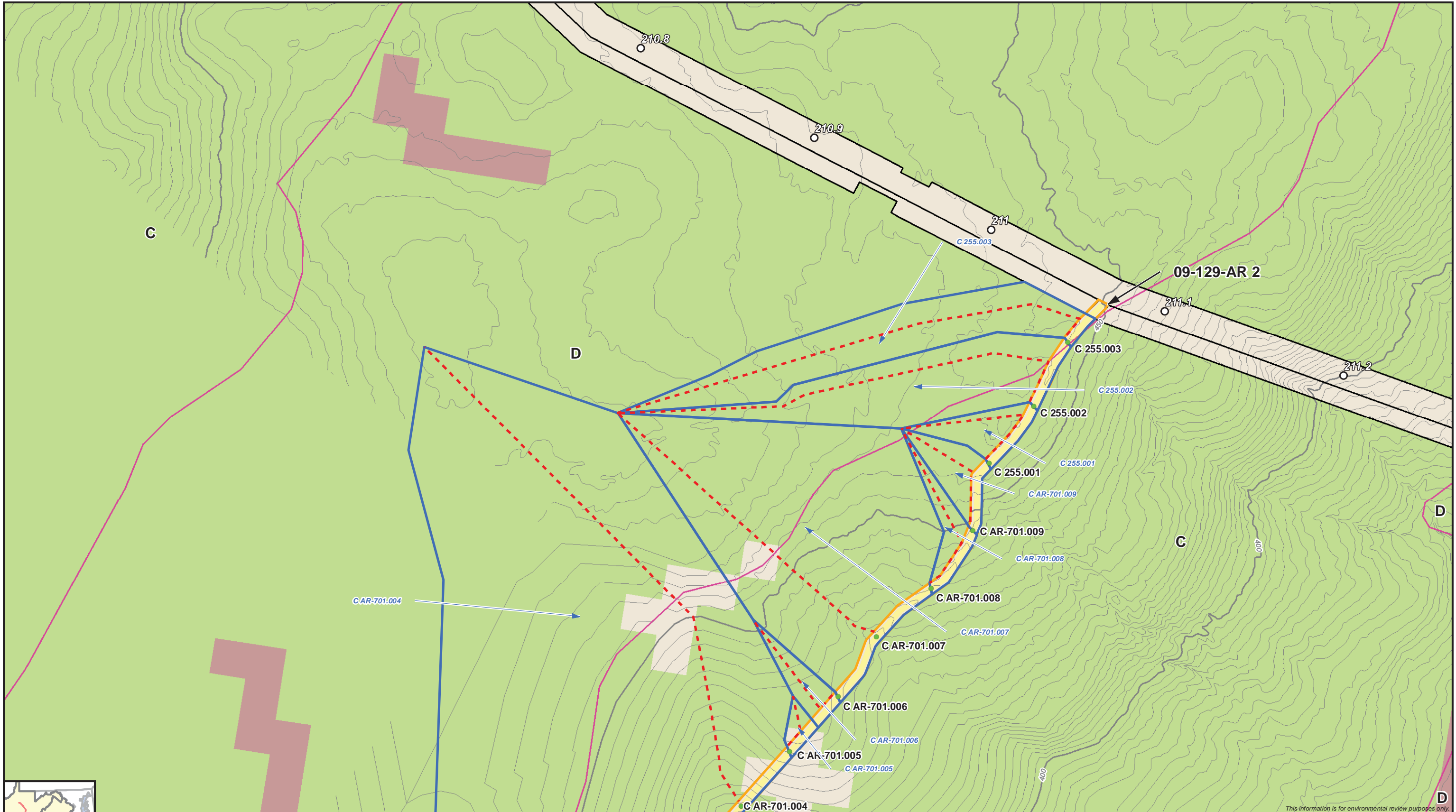
- Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Open Water
 - ▭ Shrub
 - ▭ Wetlands

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

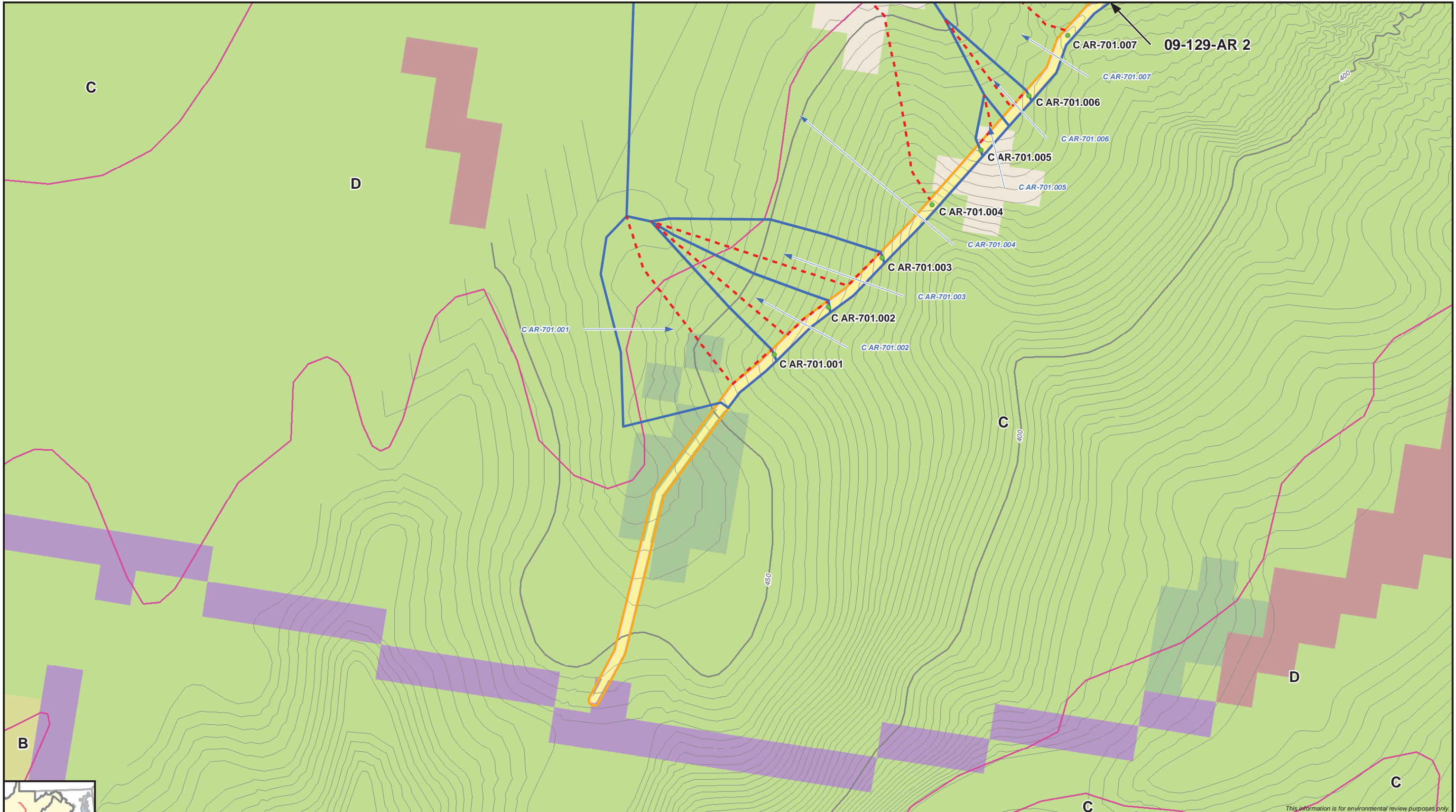


- | | | | |
|-----------------------------|-------------------------|-------------------|------------|
| ○ Milepost | --- Flow Path | Land Cover | ■ Shrub |
| ▭ Permanent Access Road ROW | — Major Contour | ■ Forest | ■ Wetlands |
| ▭ Pipeline ROW | — Minor Contour | ■ Gravel | |
| ▭ Culvert Drainage Area | ■ Hydrologic Soil Group | | |
| ● Culvert | | | |

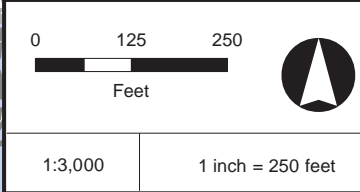


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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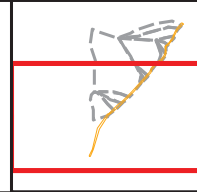


- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest
 - Grassland
 - Gravel
 - Shrub
 - Wetlands

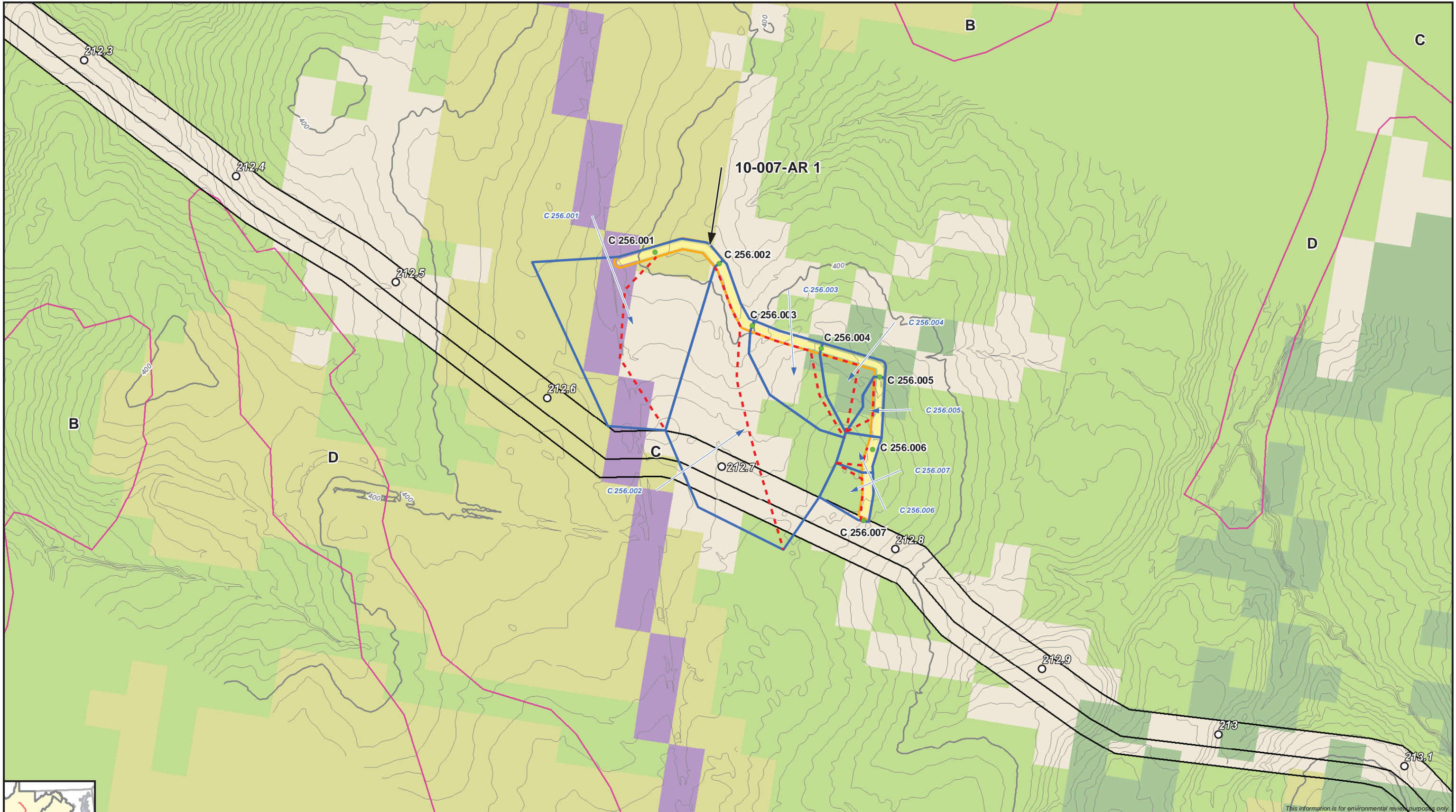
Access Road Key →



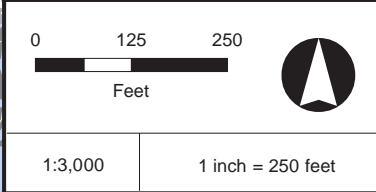
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

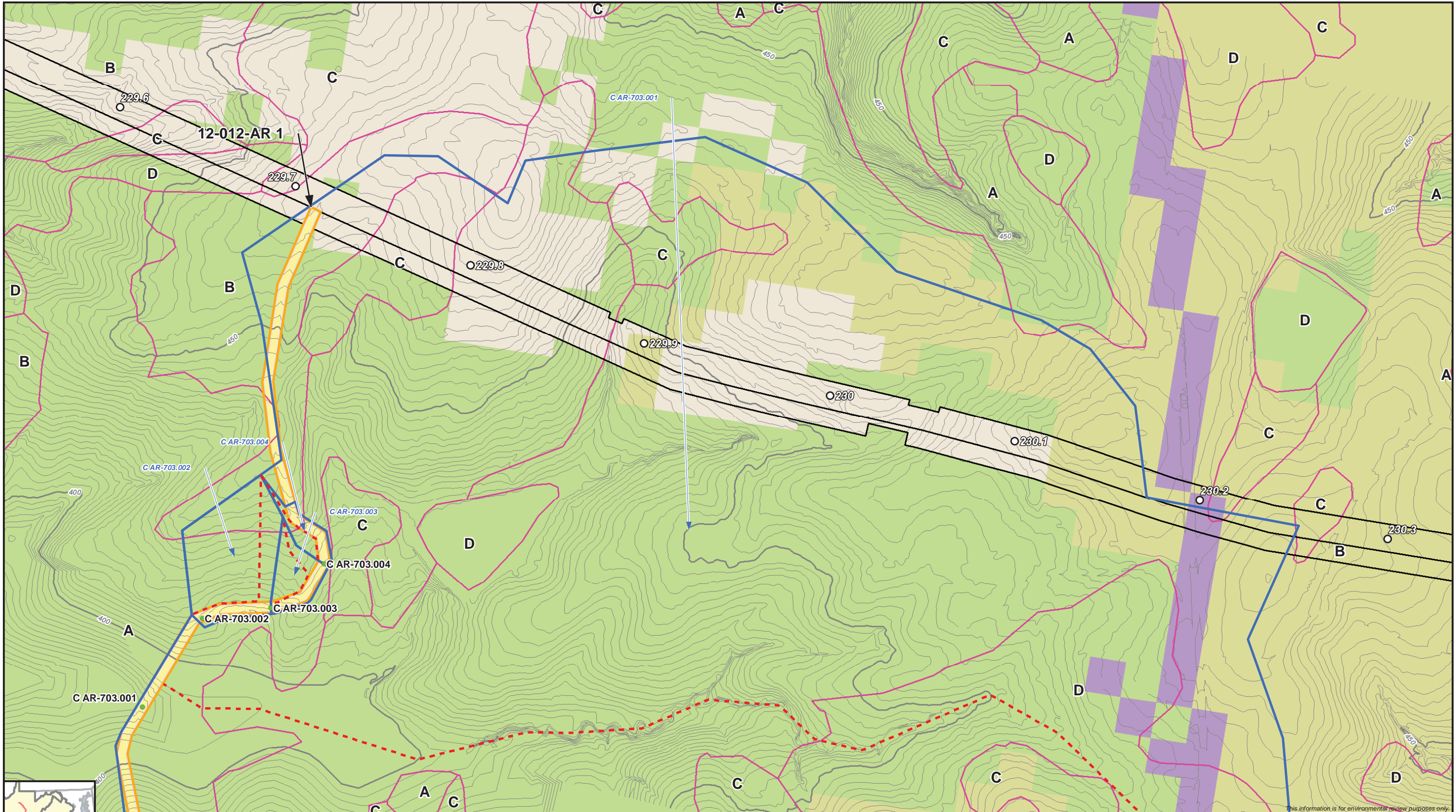
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub

Access Road Key →

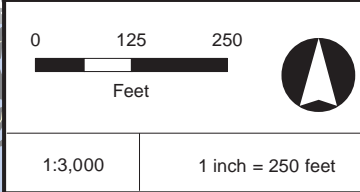


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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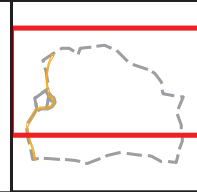


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ▭ Hydrologic Soil Group

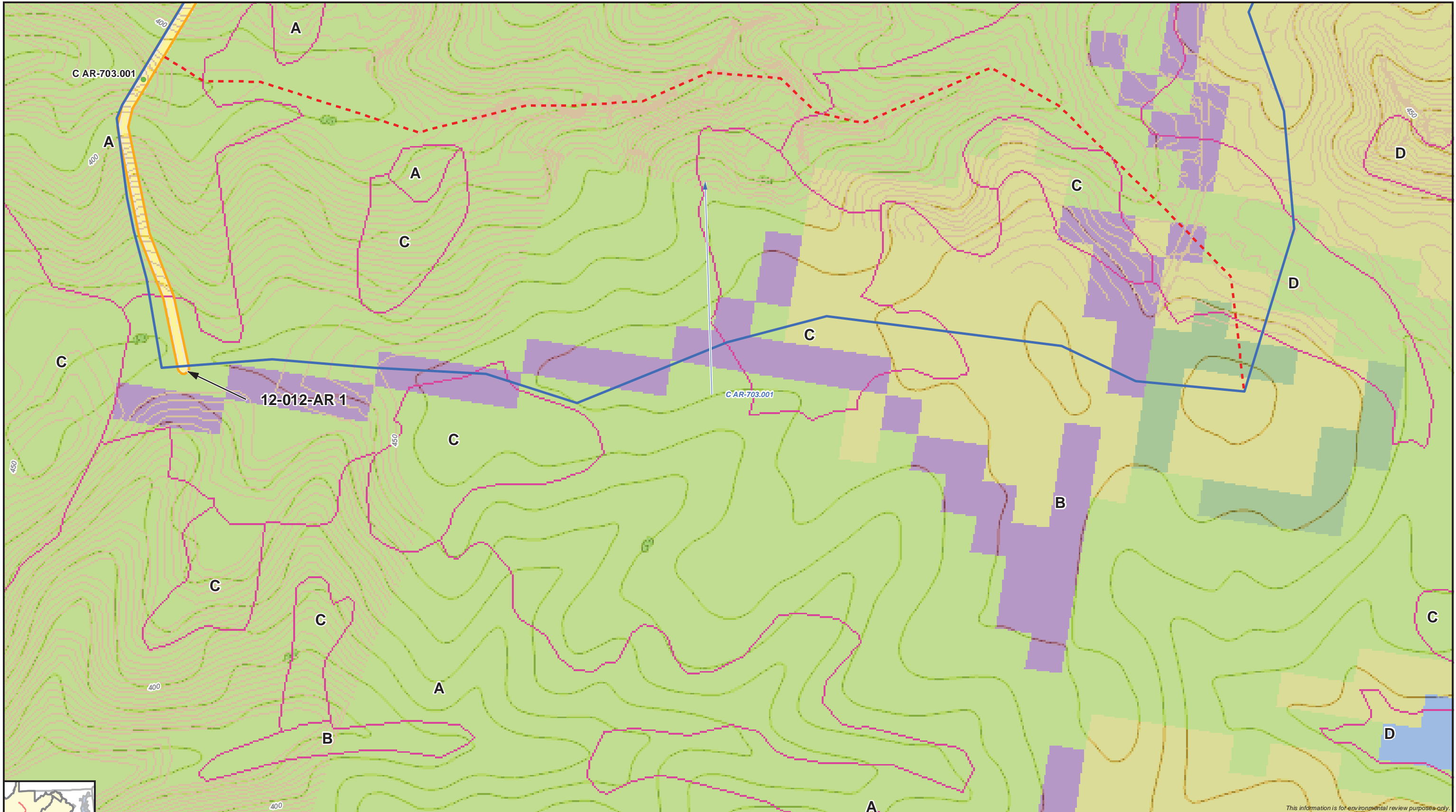
- Land Cover**
- ▭ Forest
 - ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Gravel
 - ▭ Shrub

Access Road Key →

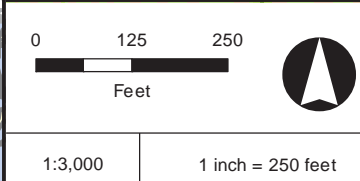


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

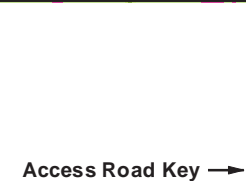




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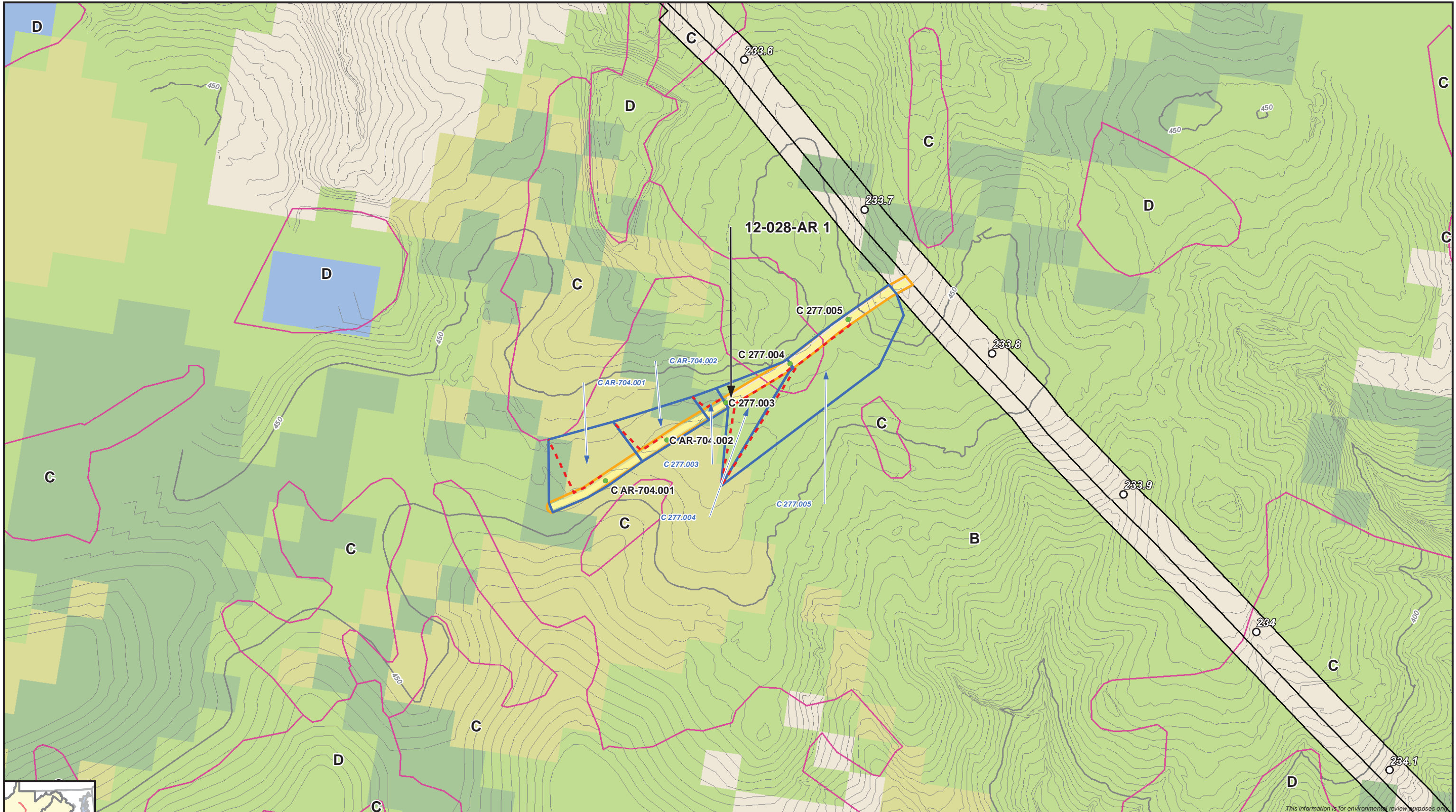


- Permanent Access Road ROW
 - Culvert Drainage Area
 - Culvert
 - - - Flow Path
 - Major Contour
 - Minor Contour
- Land Cover**
- Grassland
 - Gravel
 - Open Water
 - Shrub
 - Agriculture
 - Developed, Open Space
 - Forest

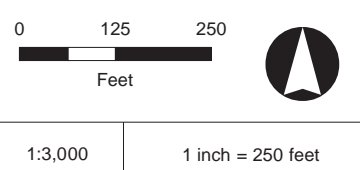
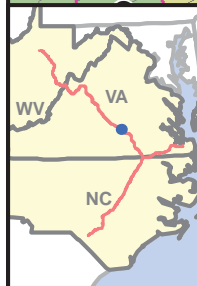


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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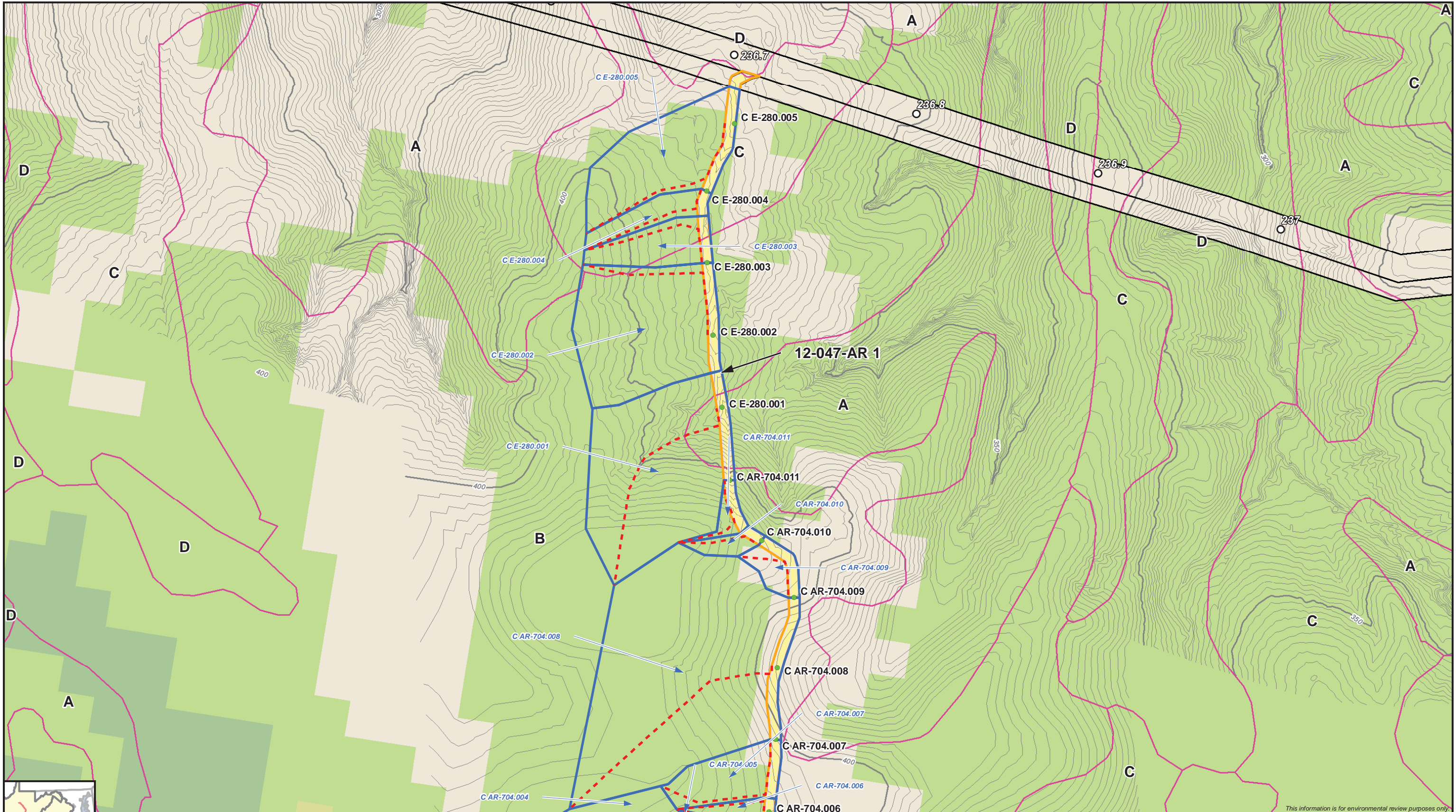
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
- ▭ Forest
- ▭ Grassland
- ▭ Gravel
- ▭ Open Water
- ▭ Shrub



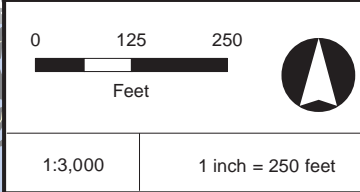
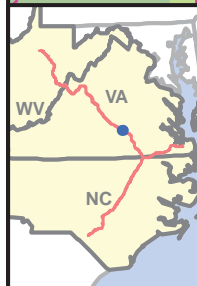
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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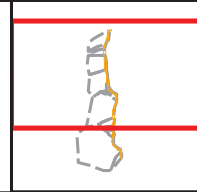


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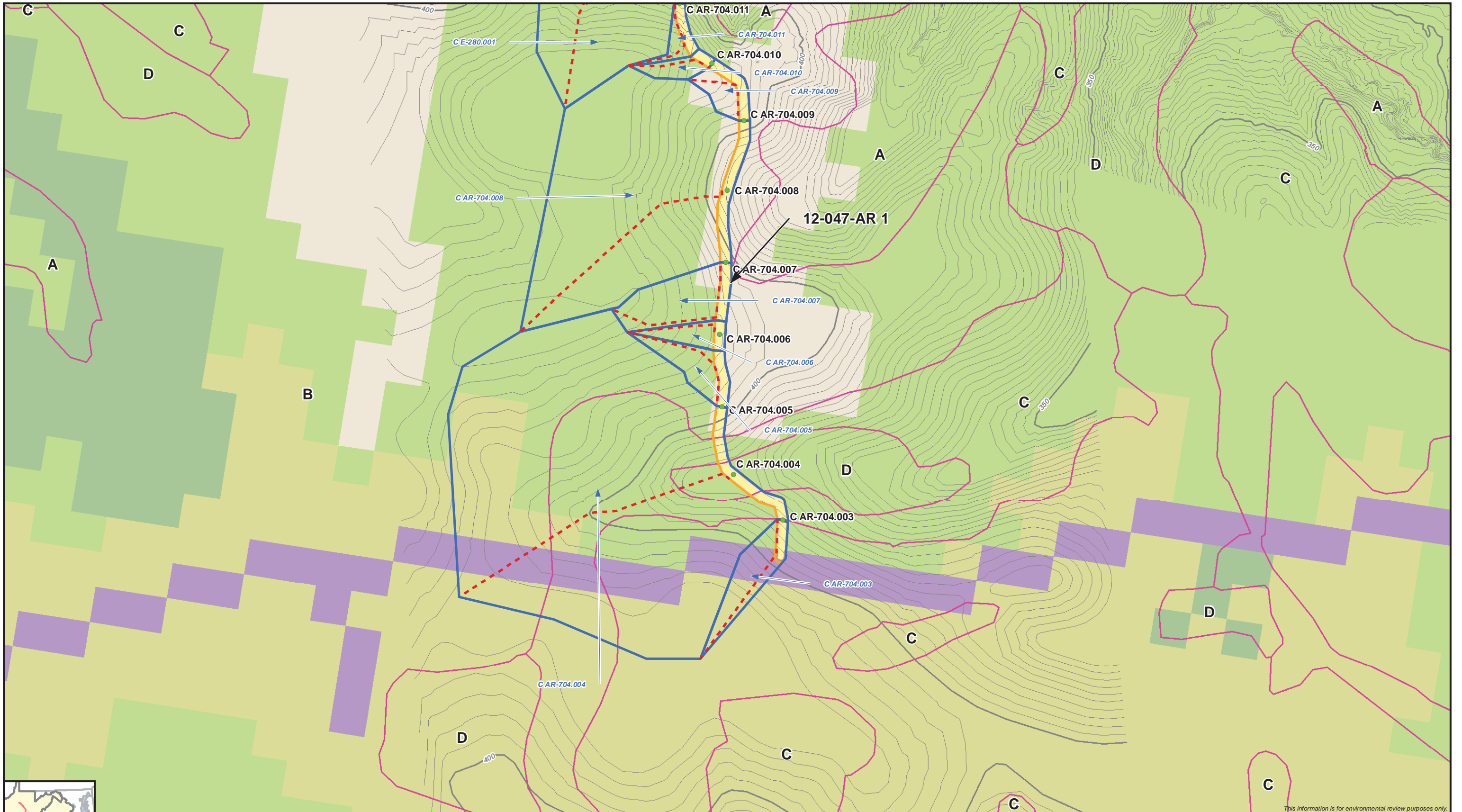
- | | | | |
|-----------------------------|-------------------------|-------------------|-----------|
| ○ Milepost | --- Flow Path | Land Cover | Grassland |
| ▭ Permanent Access Road ROW | — Major Contour | Agriculture | Gravel |
| ▭ Pipeline ROW | — Minor Contour | Forest | Shrub |
| ▭ Culvert Drainage Area | ⓐ Hydrologic Soil Group | | |
| ● Culvert | | | |

Access Road Key →

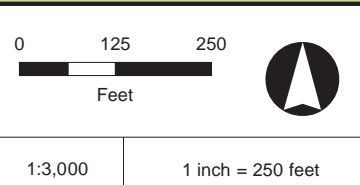
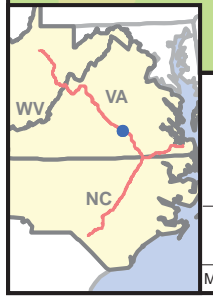


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

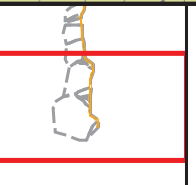




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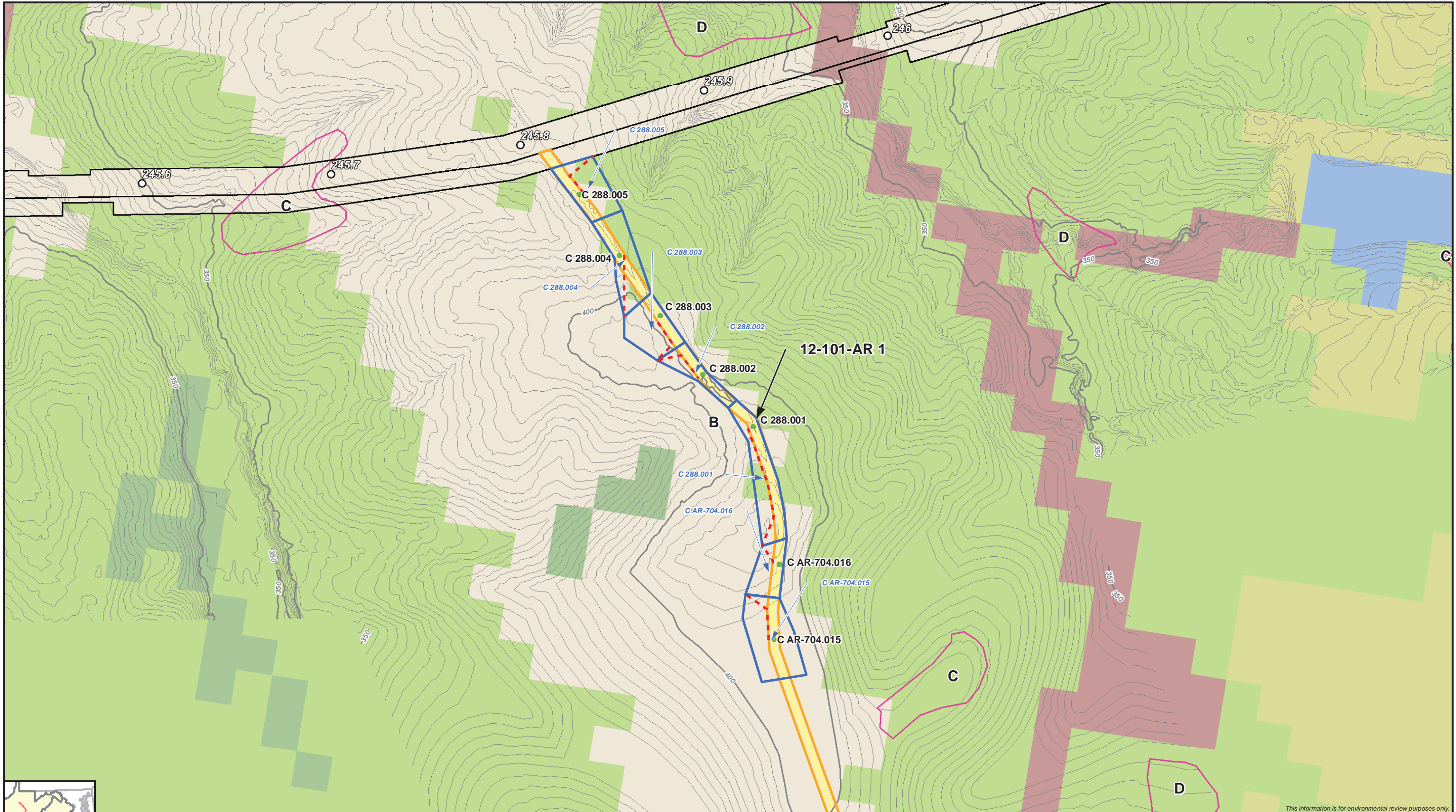
Permanent Access Road ROW	Flow Path	Land Cover	Grassland
Culvert Drainage Area	Major Contour	Agriculture	Gravel
Culvert	Minor Contour	Developed, Open Space	Shrub
	Hydrologic Soil Group	Forest	



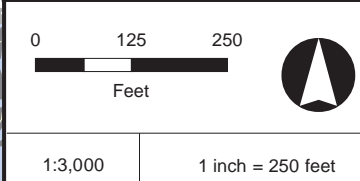
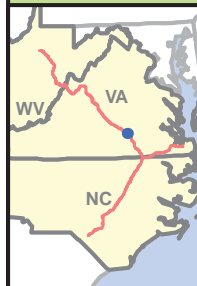
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Virginia Culvert and Ditch Analysis Permanent Access Roads Post-Development Conditions

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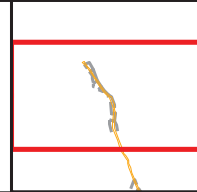
This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

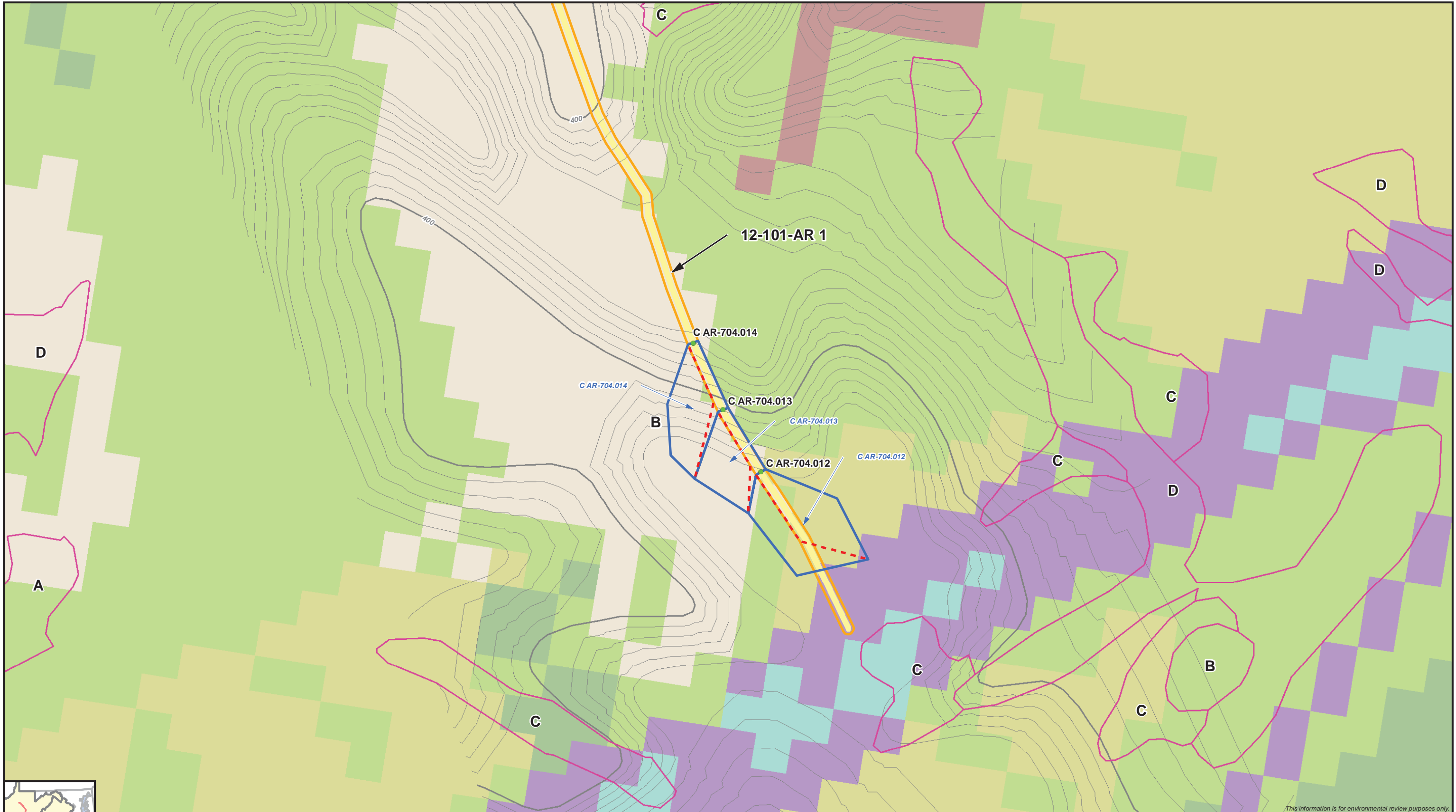
- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- | | |
|-------------------|--------------|
| Land Cover | Gravel |
| ▭ Agriculture | ▭ Open Water |
| ▭ Forest | ▭ Shrub |
| ▭ Grassland | ▭ Wetlands |

Access Road Key →

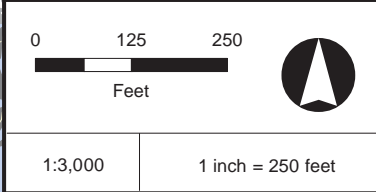
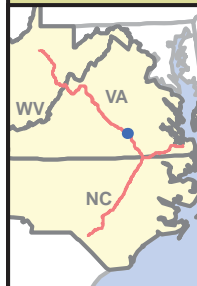


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





This information is for environmental review purposes only.

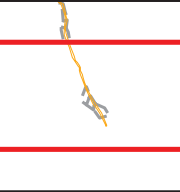


- Permanent Access Road ROW
- Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- A Hydrologic Soil Group

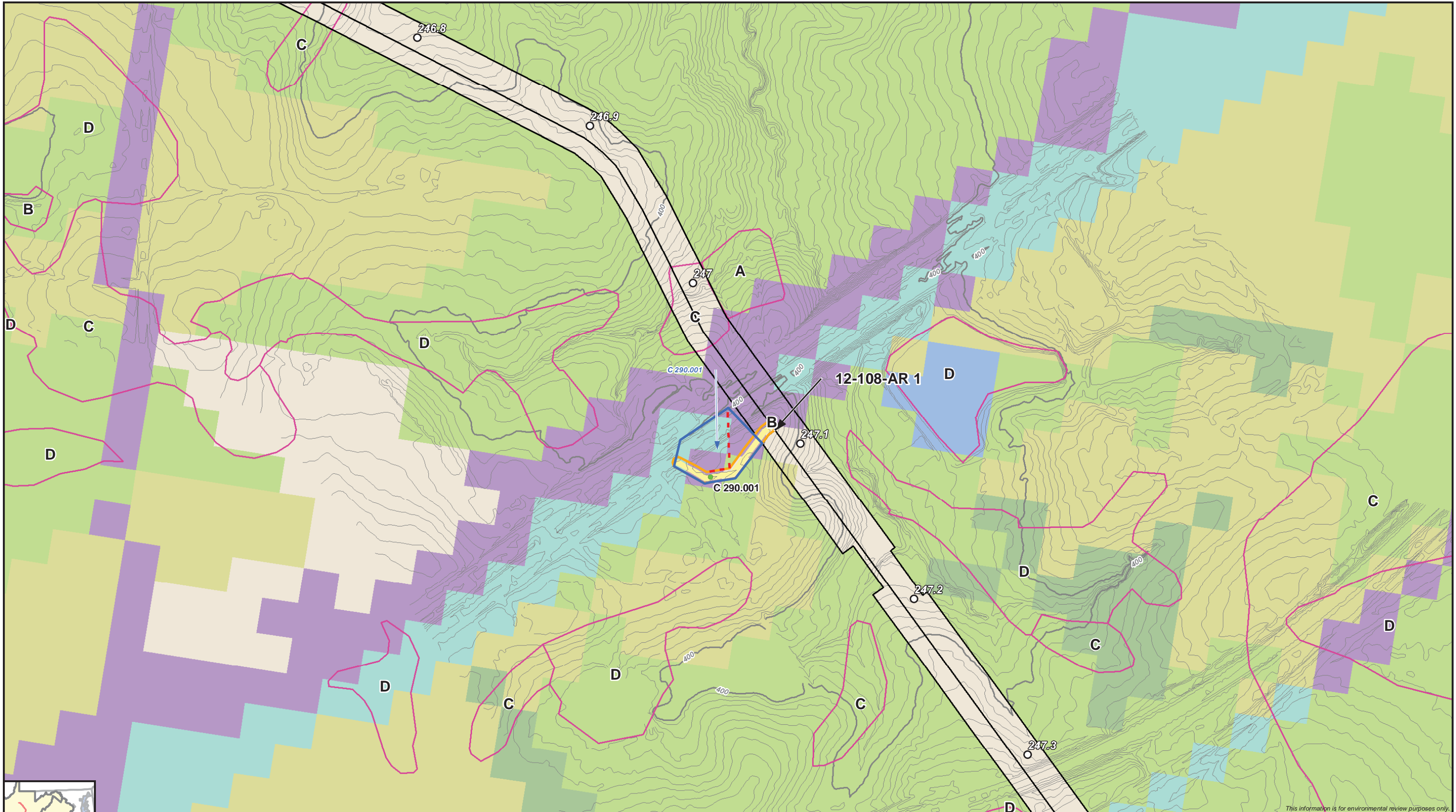
- Land Cover**
- Grassland
 - Agriculture
 - Forest
 - Developed, Low Intensity
 - Developed, Open Space
 - Shrub
 - Wetlands
 - Gravel

Access Road Key →

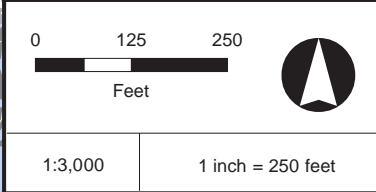


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

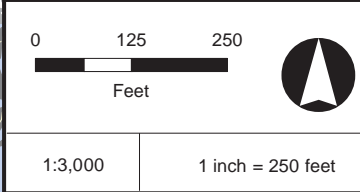
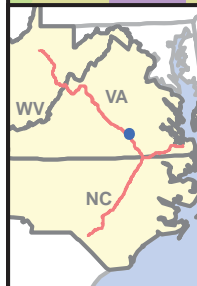
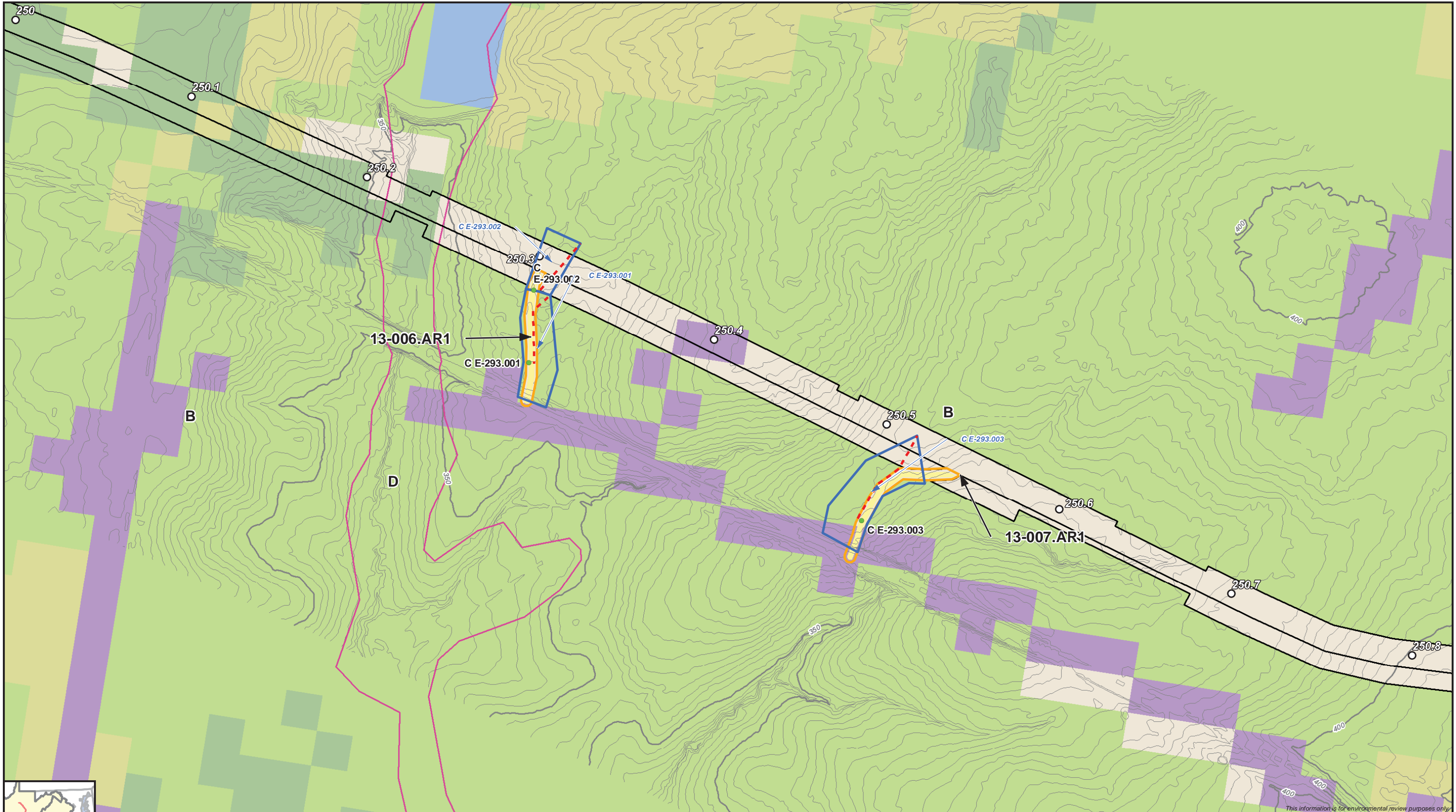
- Land Cover**
- Grassland
 - Agriculture
 - Developed, Low Intensity
 - Developed, Open Space
 - Forest
 - Gravel
 - Open Water
 - Shrub

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



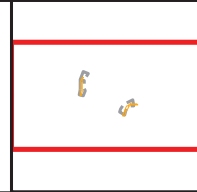


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

- ▭ Grassland
- ▭ Gravel
- ▭ Open Water
- ▭ Shrub

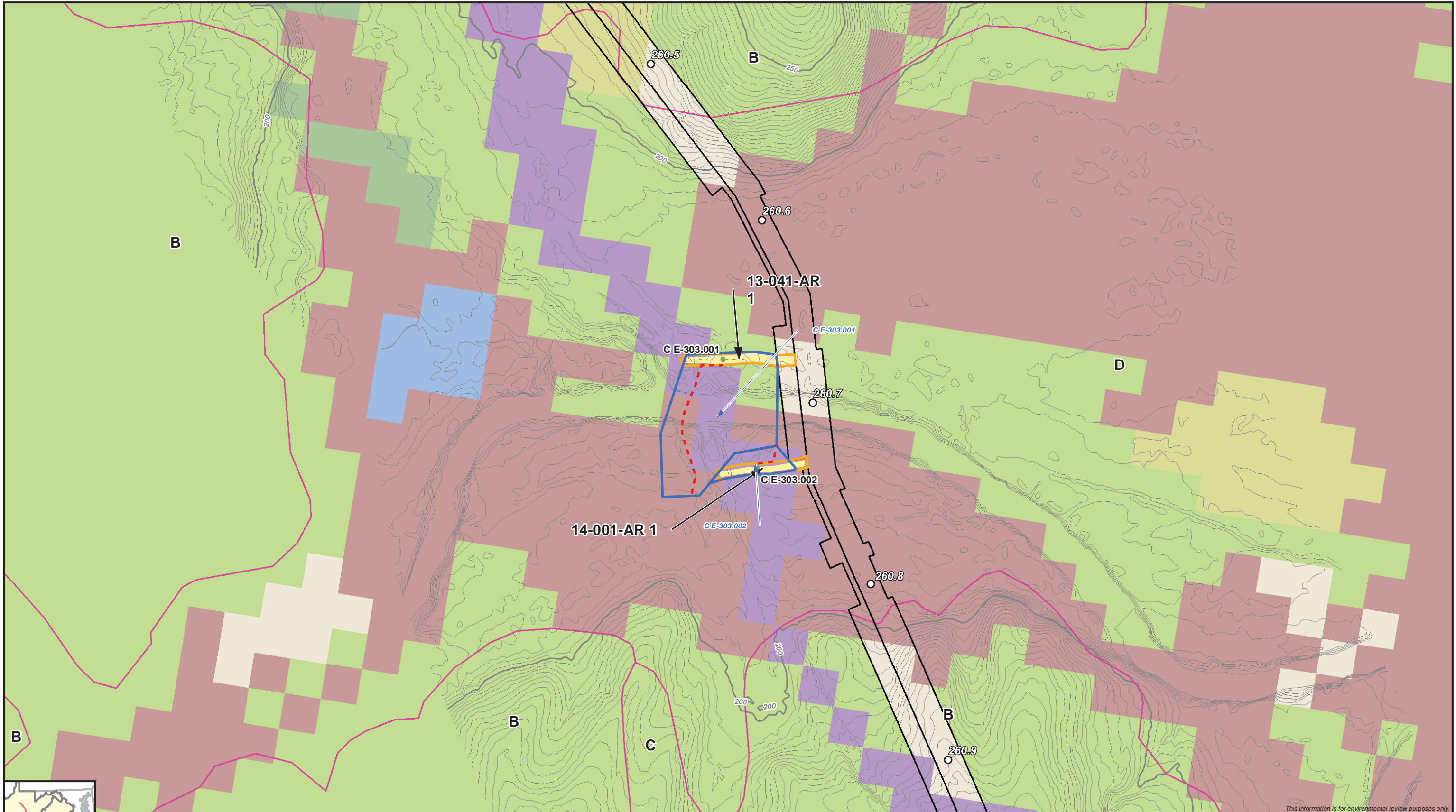
Access Road Key →



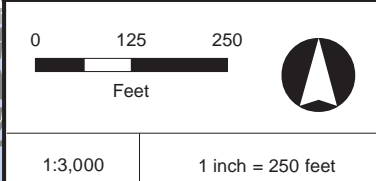
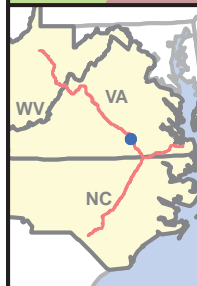
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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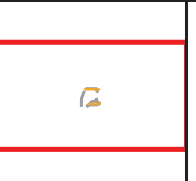
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland

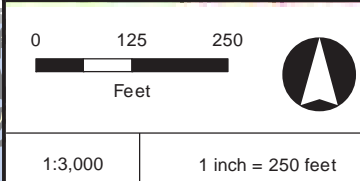
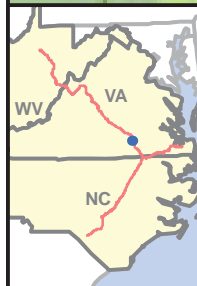
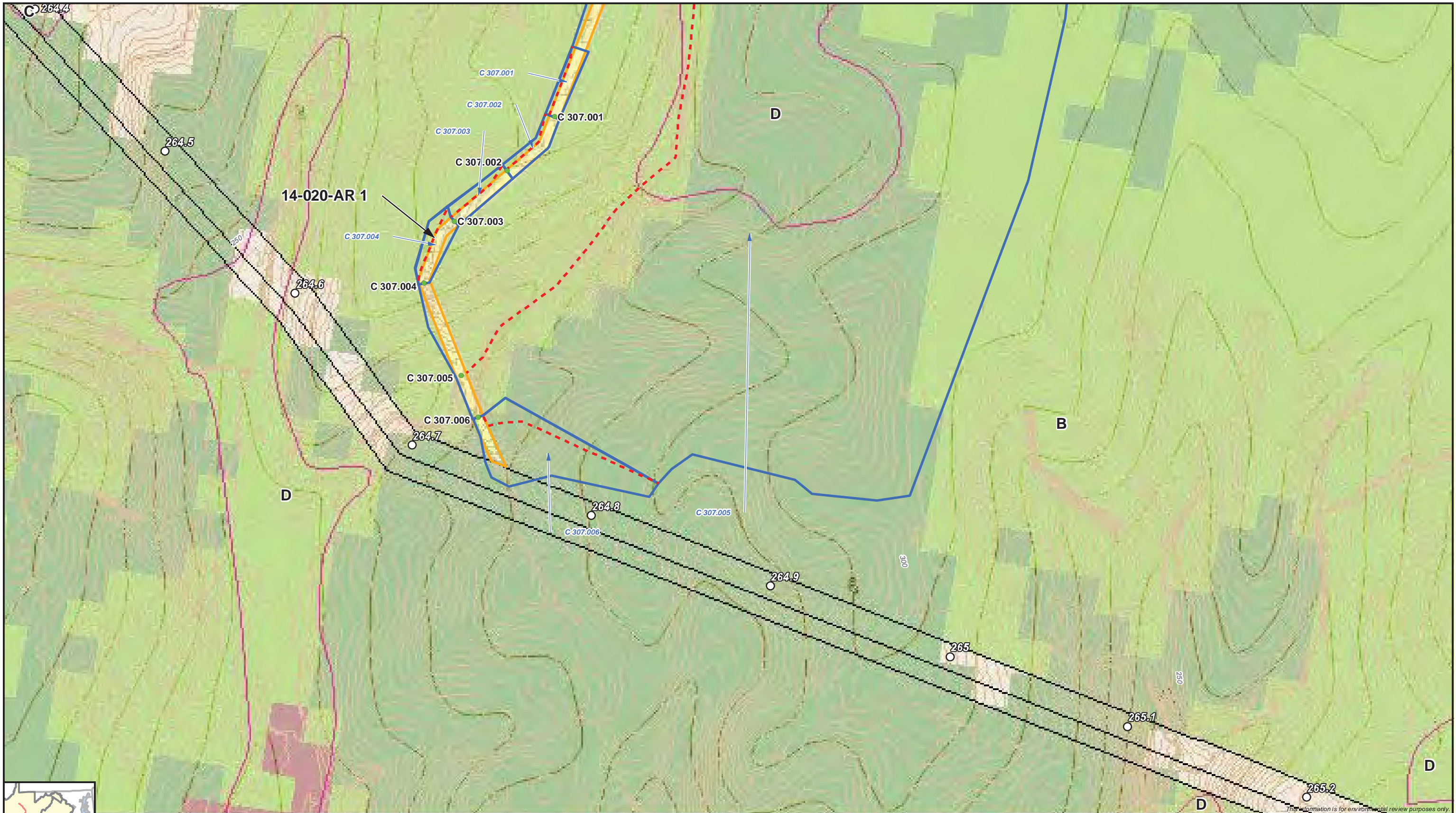
- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

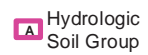


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



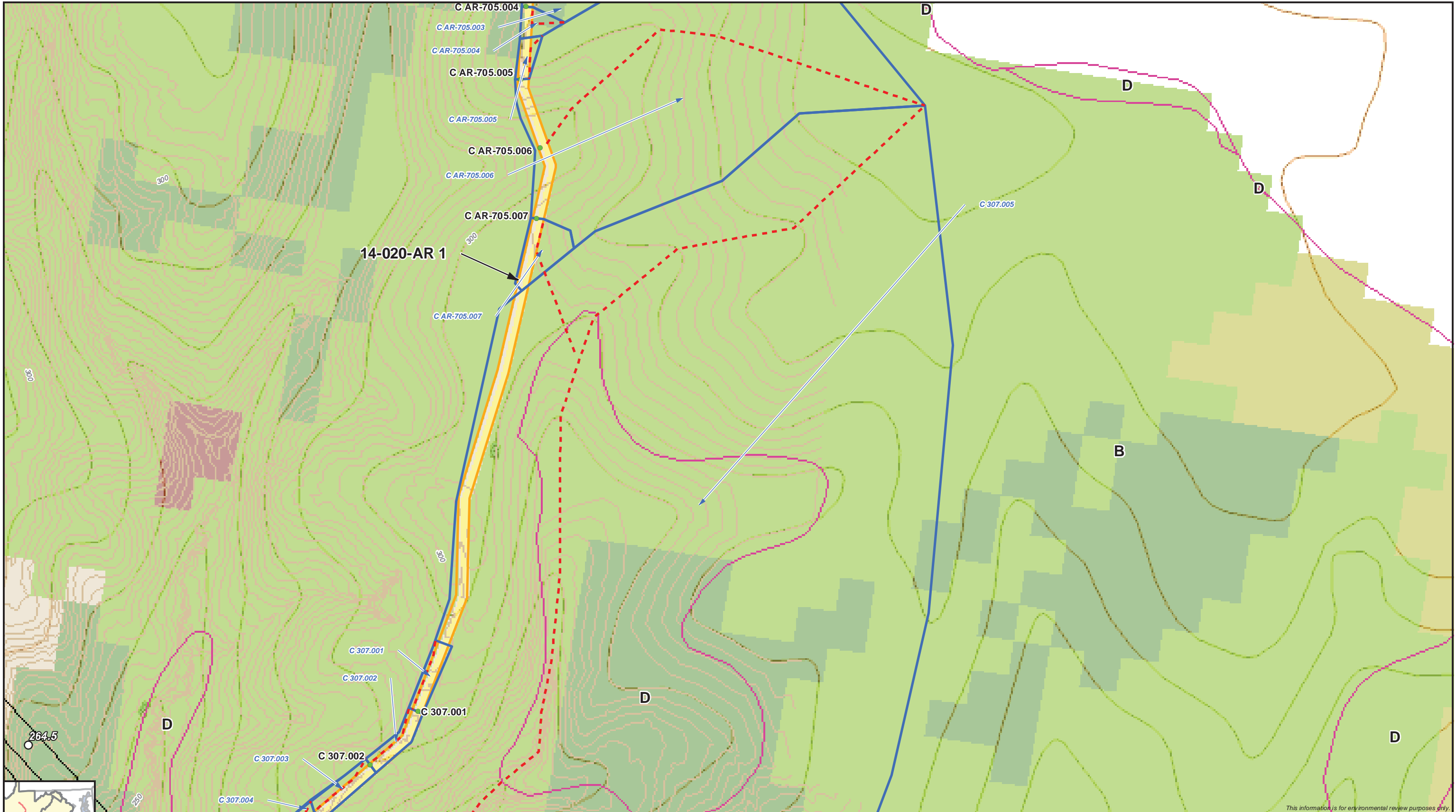


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Land Cover**
- Forest
- Grassland
- Gravel
- Shrub
- Wetlands

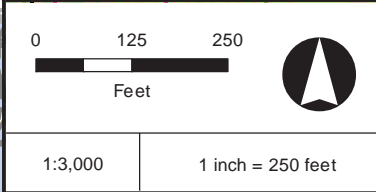
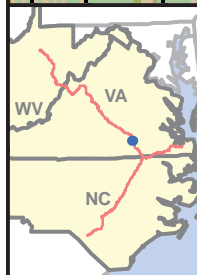


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

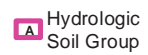




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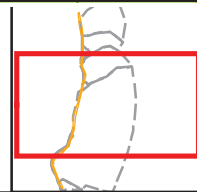


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- Land Cover**
- ▭ Agriculture
- ▭ Forest
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands



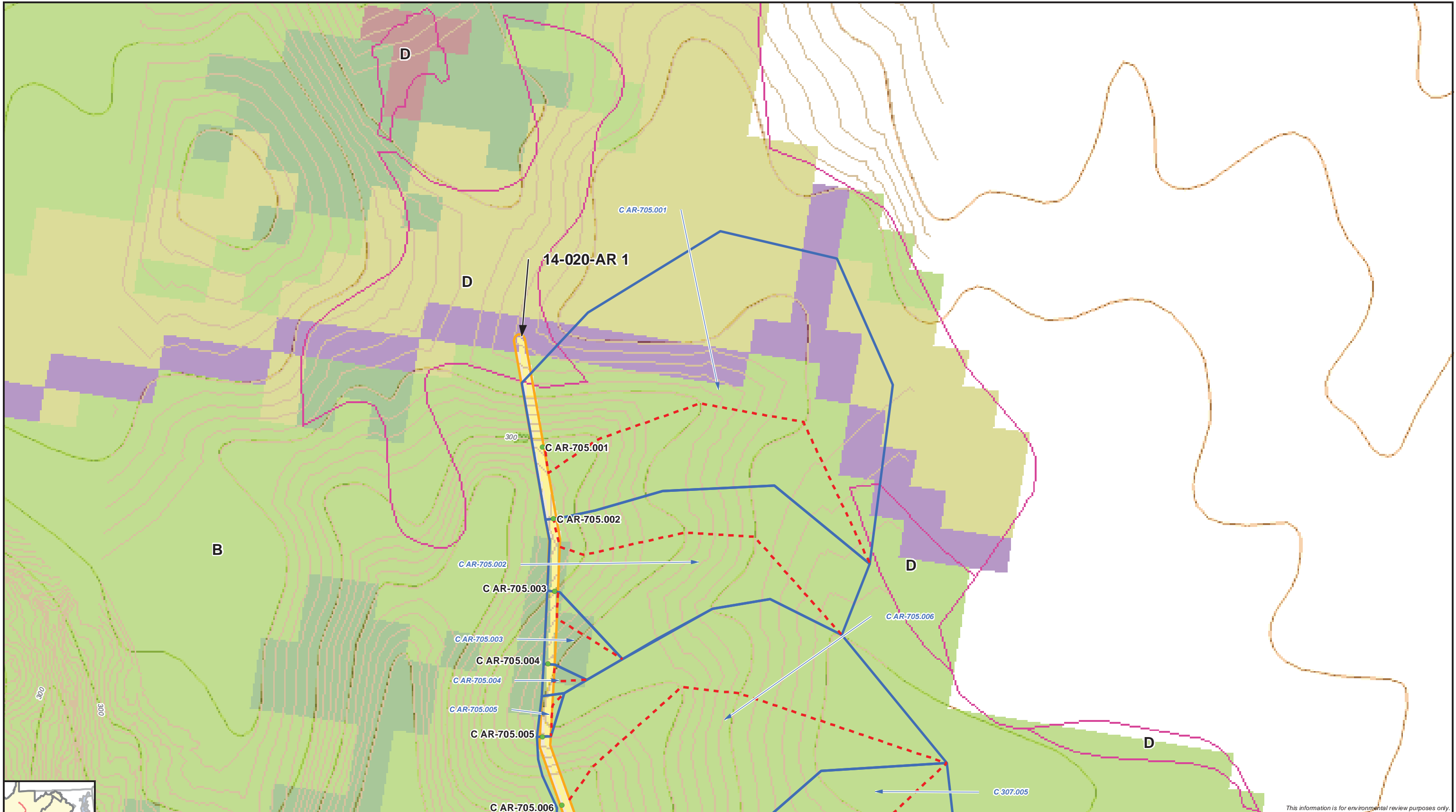
Hydrologic Soil Group

Access Road Key →

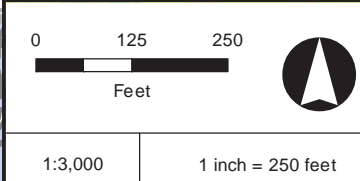
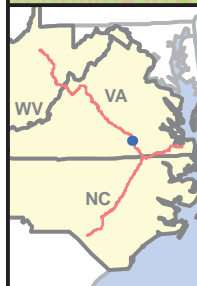


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

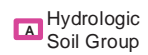




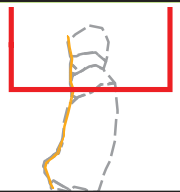
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Permanent Access Road ROW	Minor Contour	Grassland
Culvert Drainage Area	Major Contour	Gravel
Culvert	Land Cover	Agriculture
Flow Path	Developed, Open Space	Shrub
Major Contour	Forest	Wetlands

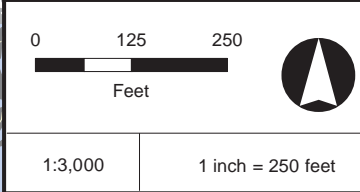
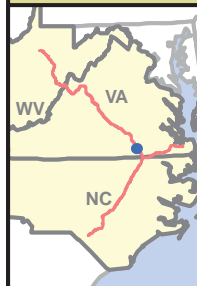
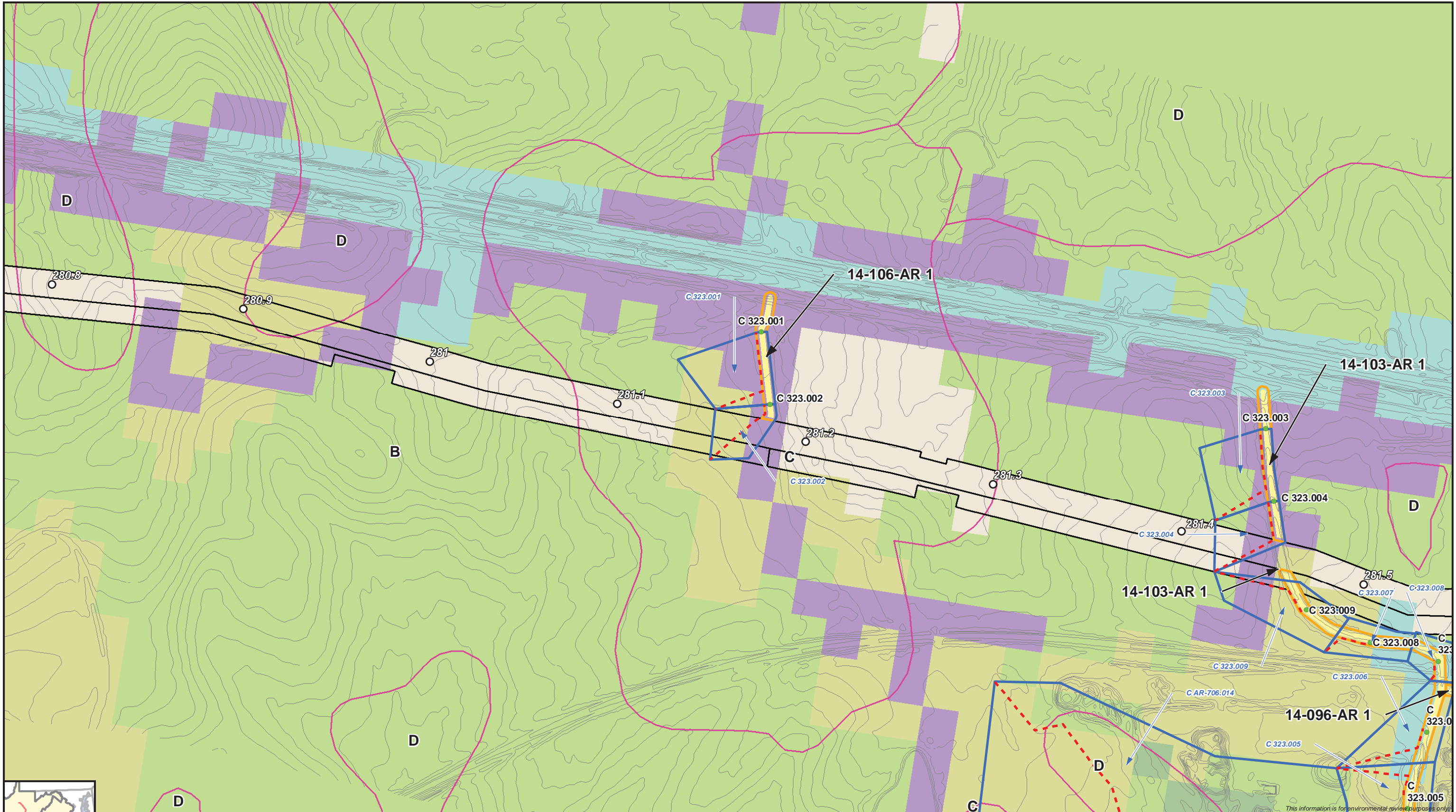


Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

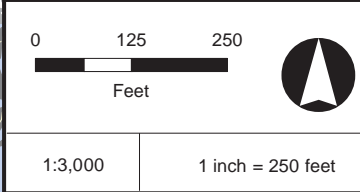
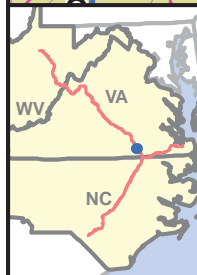
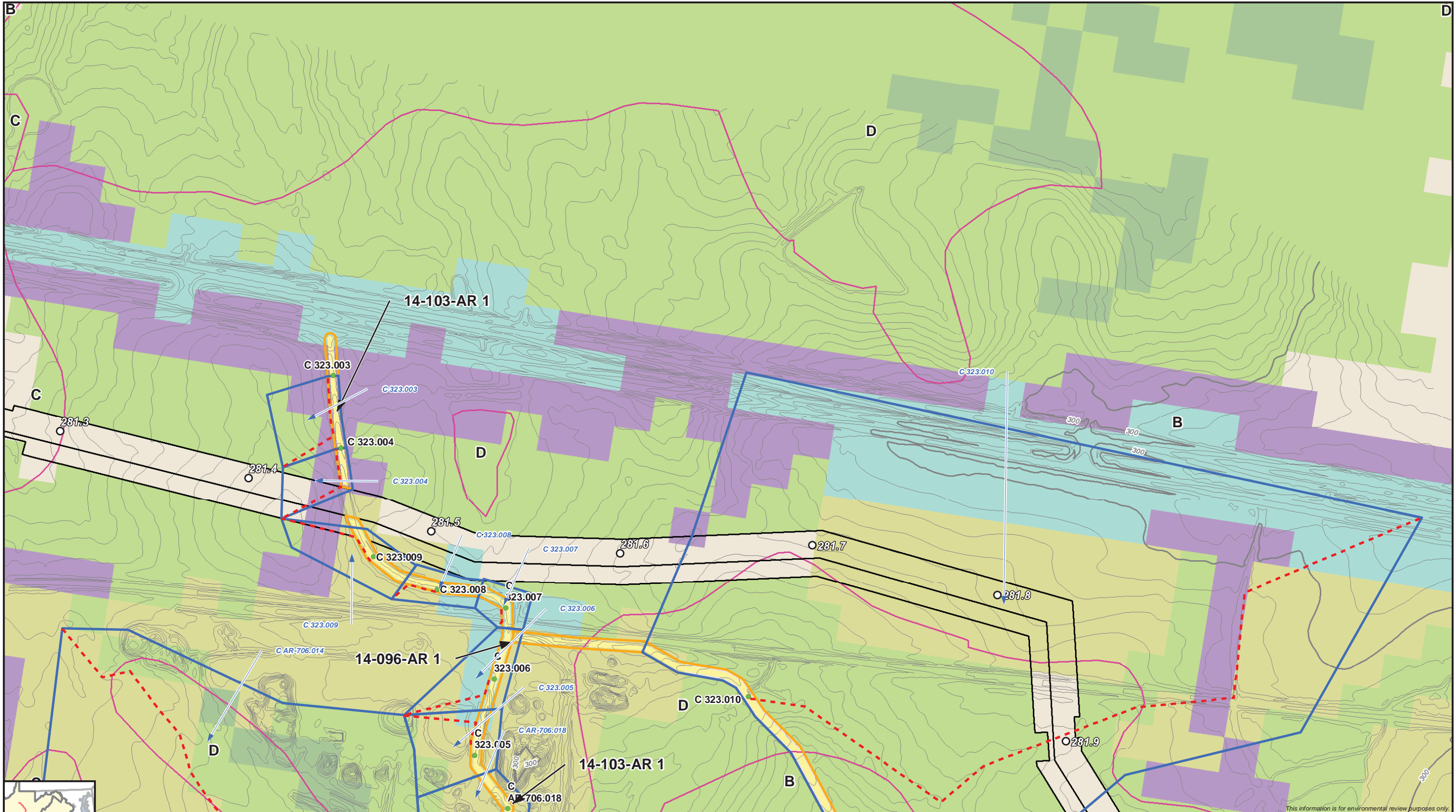
- Land Cover**
- Forest
 - Grassland
 - Agriculture
 - Developed, Low Intensity
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space

- ▭ Forest
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub

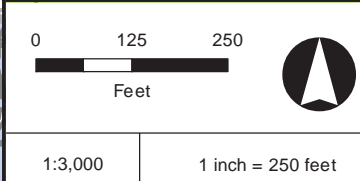
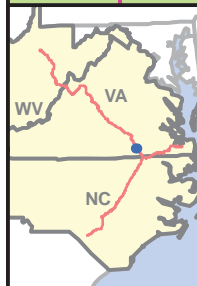
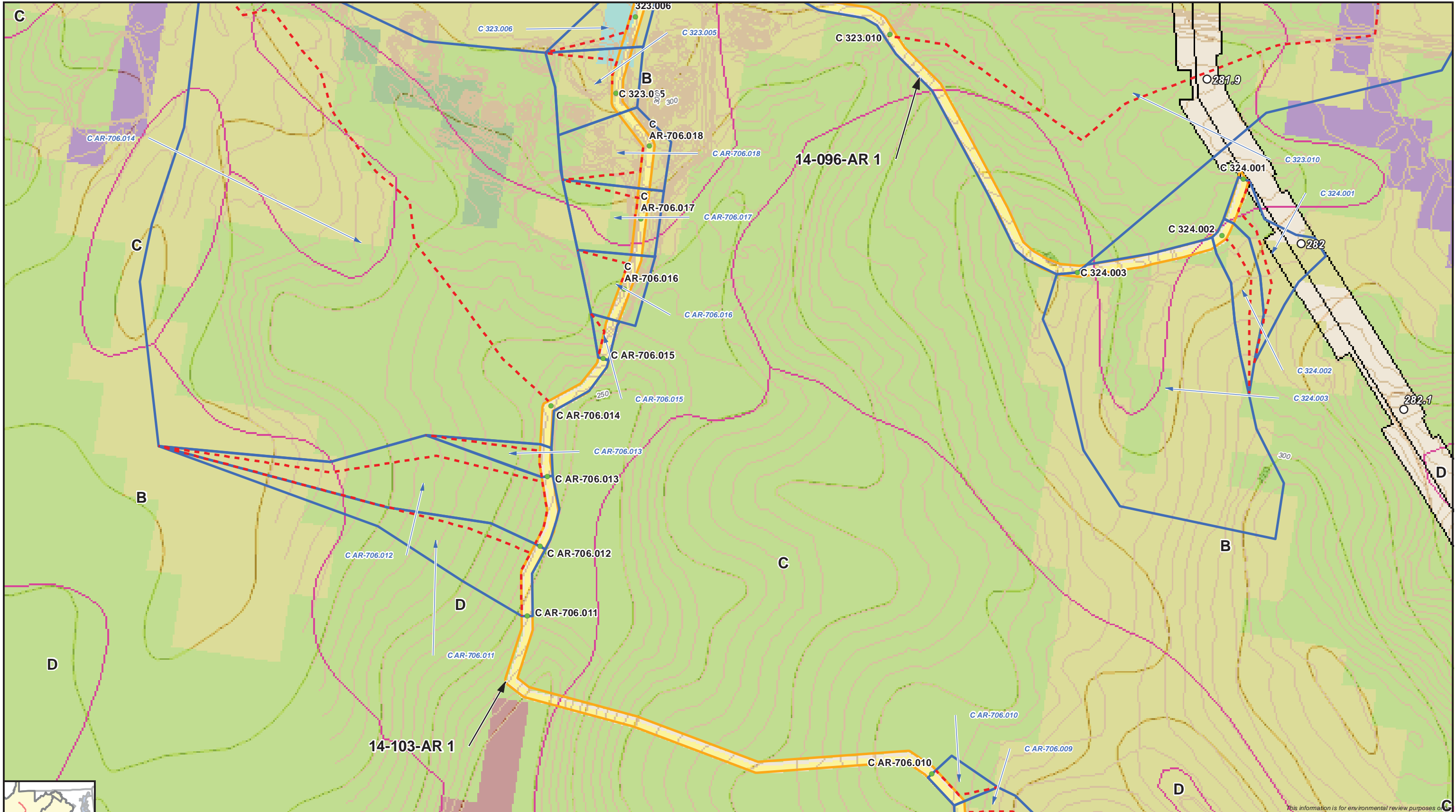
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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This information is for environmental review purposes only.



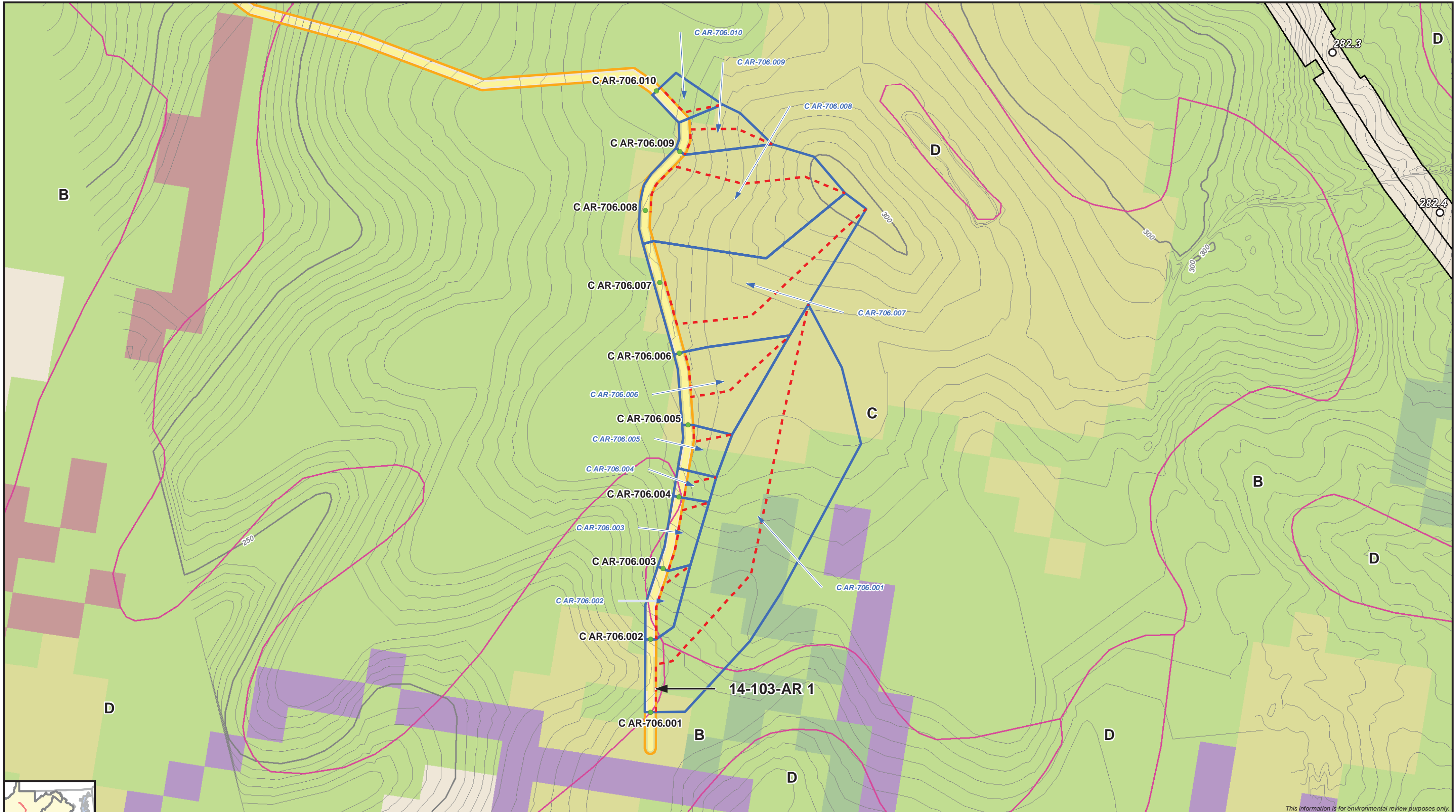
○ Milepost	--- Flow Path	■ Developed, Low Intensity	■ Shrub
▭ Permanent Access Road ROW	— Major Contour	■ Developed, Open Space	■ Wetlands
▭ Pipeline ROW	— Minor Contour	■ Forest	
▭ Culvert Drainage Area	Land Cover	■ Grassland	
● Culvert	■ Agriculture	■ Gravel	
	■ Hydrologic Soil Group		

Access Road Key →

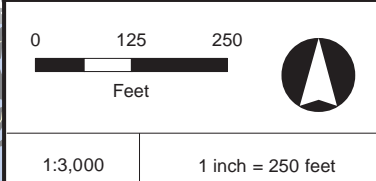
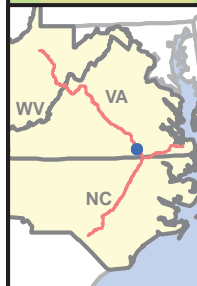


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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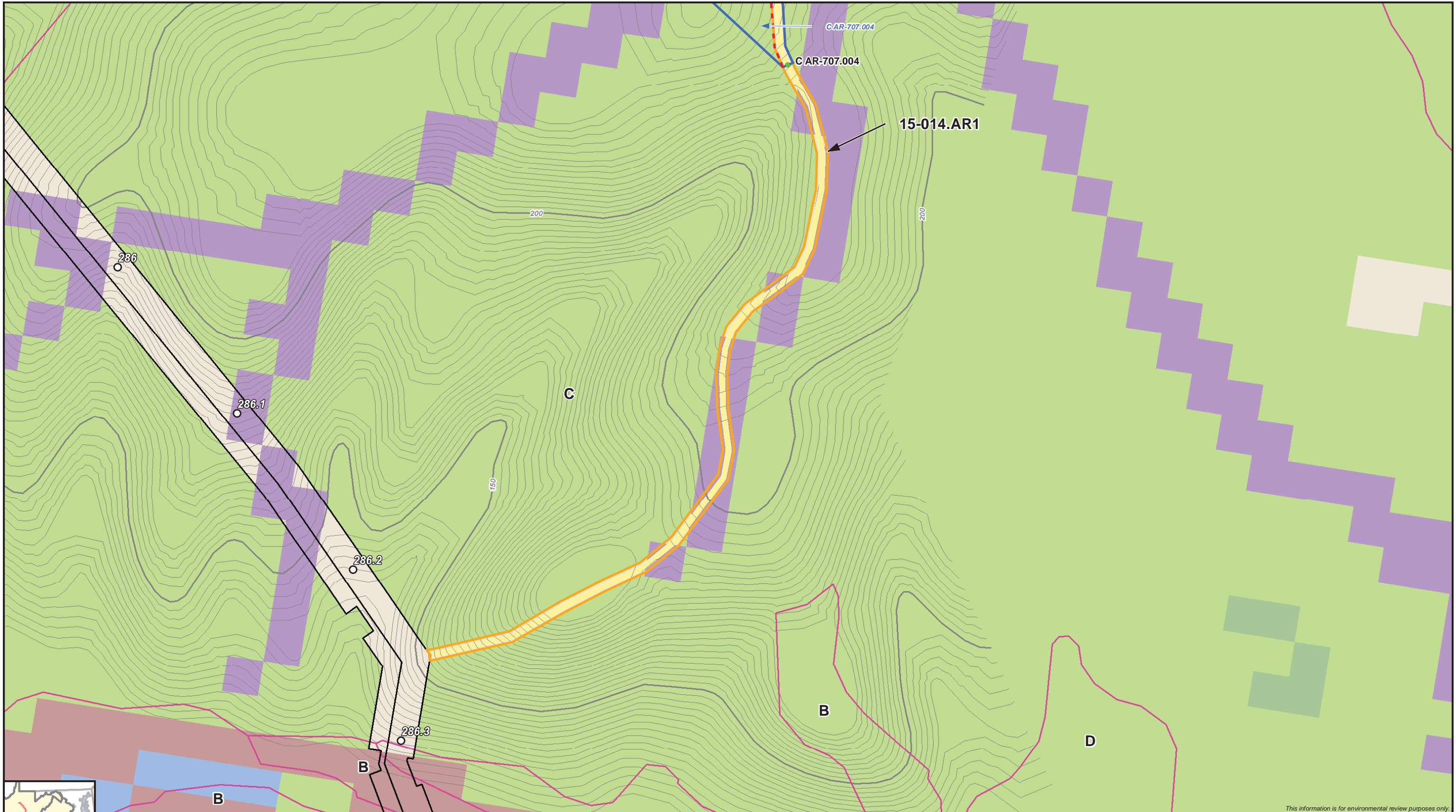


○ Milepost	--- Flow Path	Land Cover	Grassland
▭ Permanent Access Road ROW	— Major Contour	Agriculture	Gravel
▭ Pipeline ROW	— Minor Contour	Developed, Open Space	Shrub
▭ Culvert Drainage Area	Ⓜ Hydrologic Soil Group	Forest	Wetlands
● Culvert			

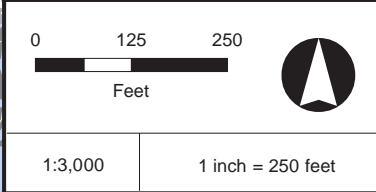
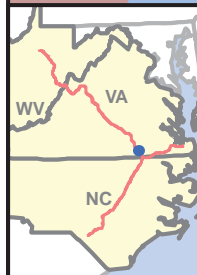


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Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

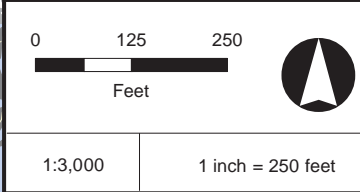
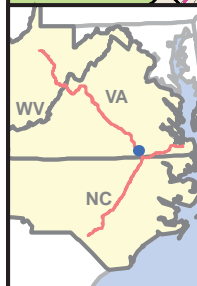
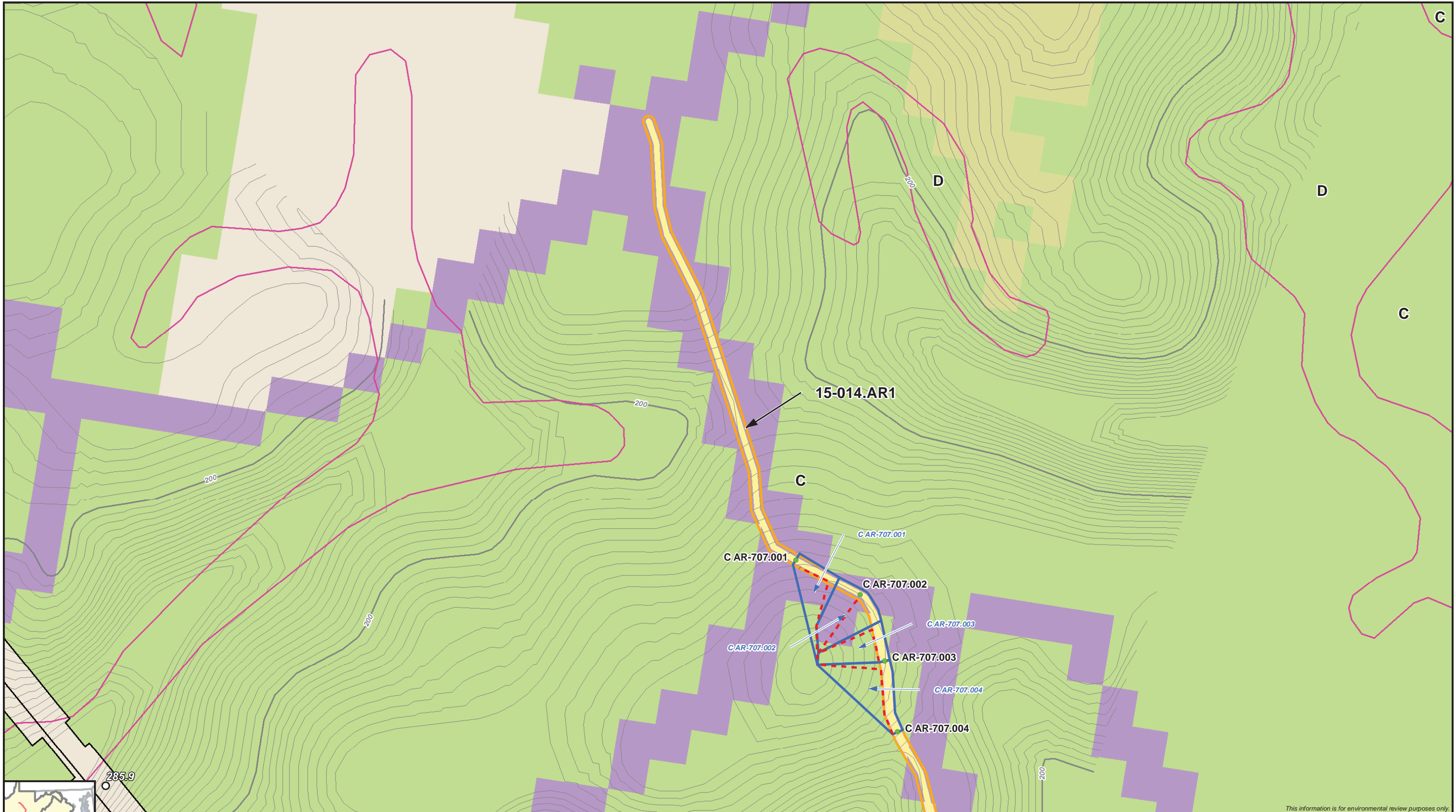
- Land Cover**
- ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland

- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



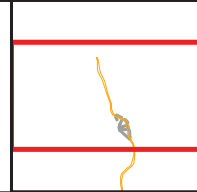


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- Forest
 - Agriculture
 - Developed, Open Space
 - Gravel
 - Shrub

Access Road Key →



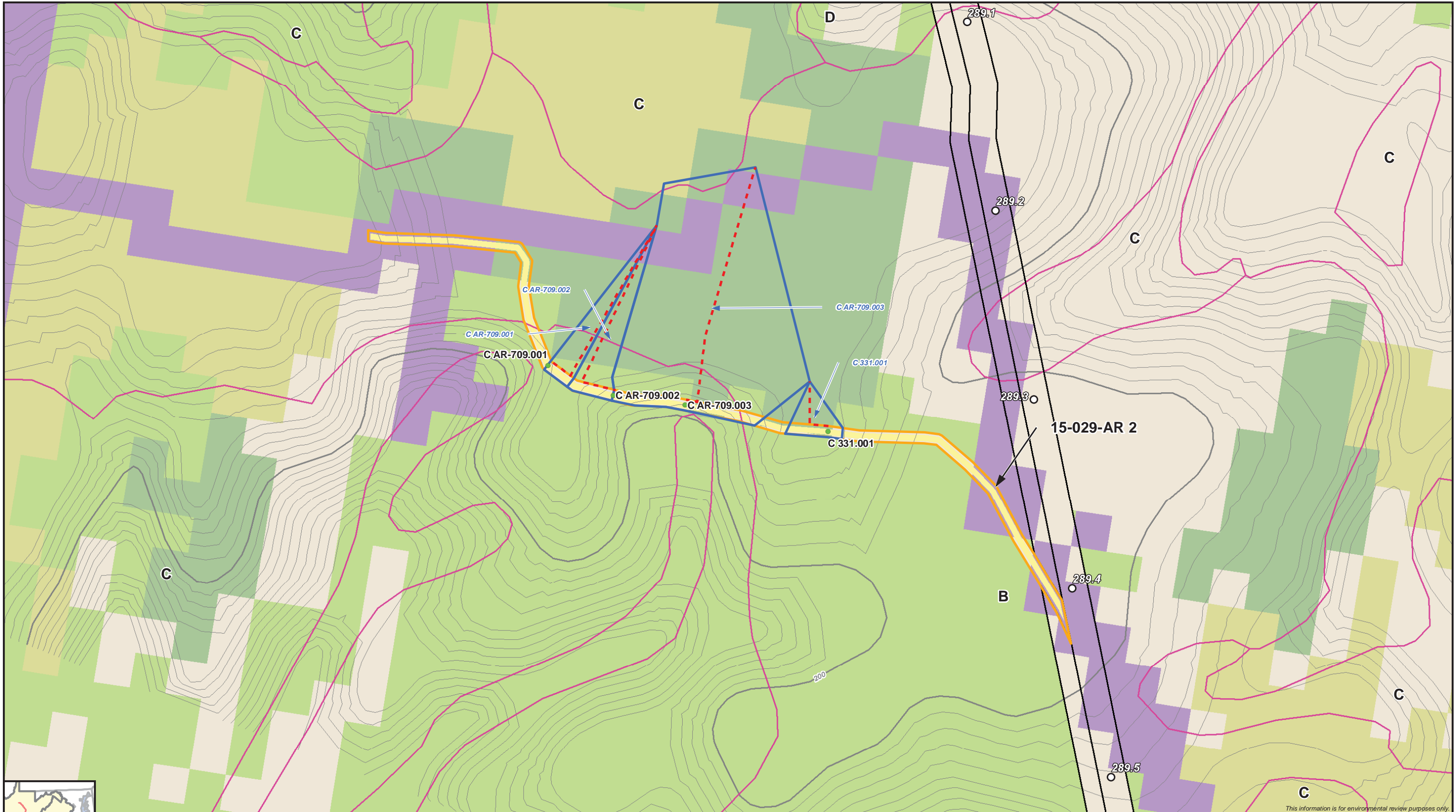
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



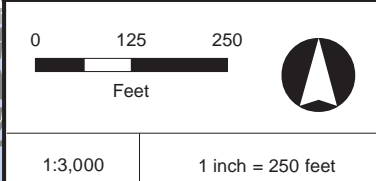
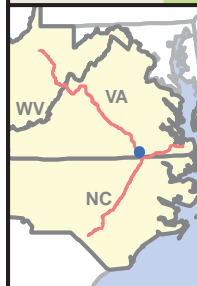
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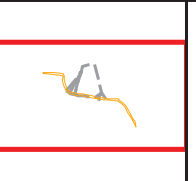
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

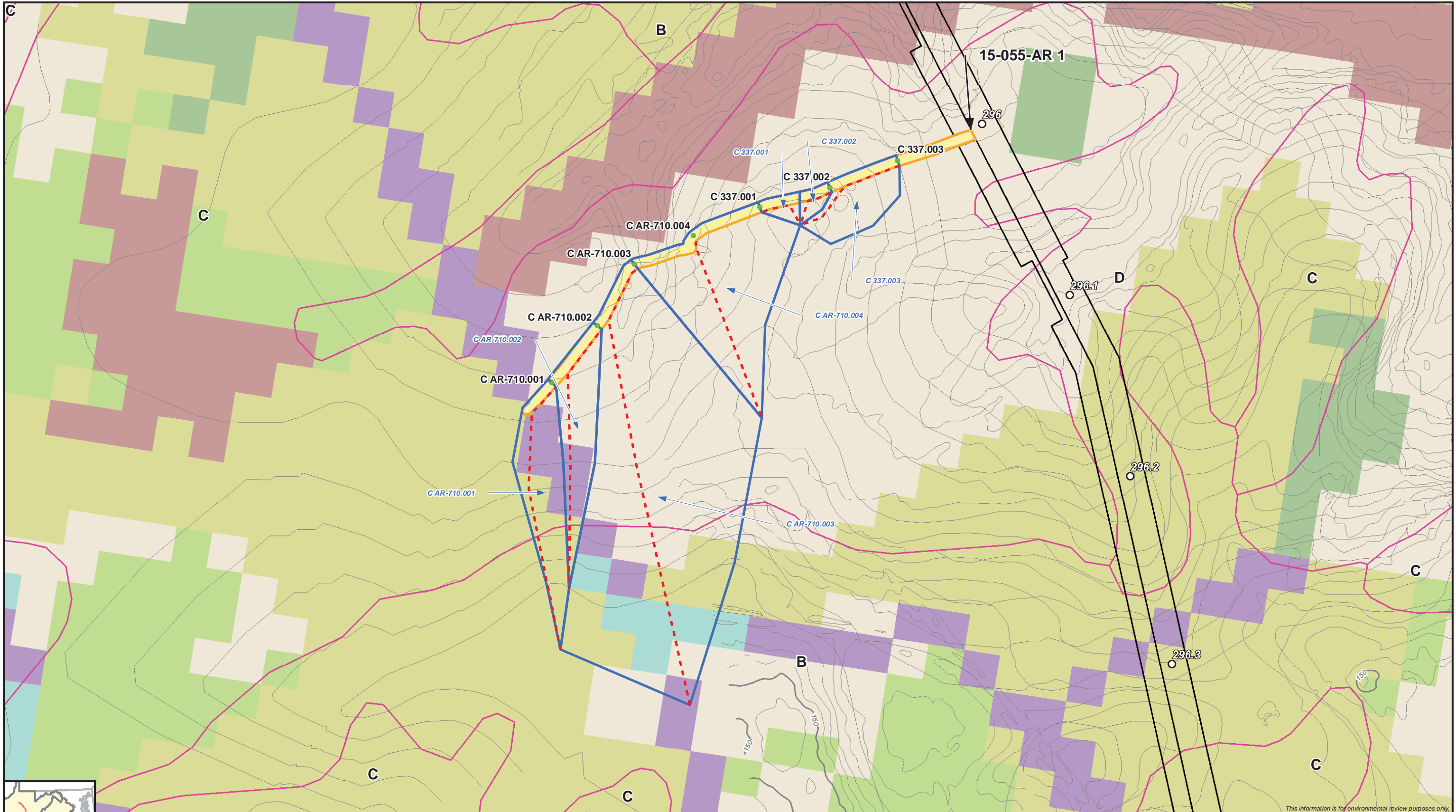
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub

Access Road Key →

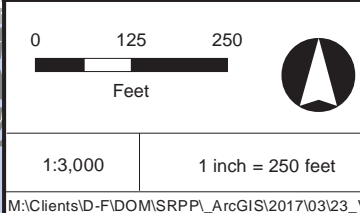
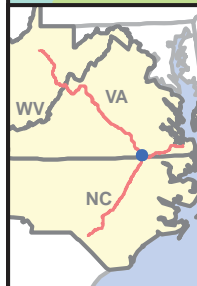


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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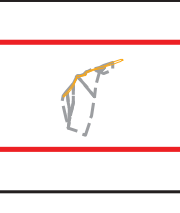
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

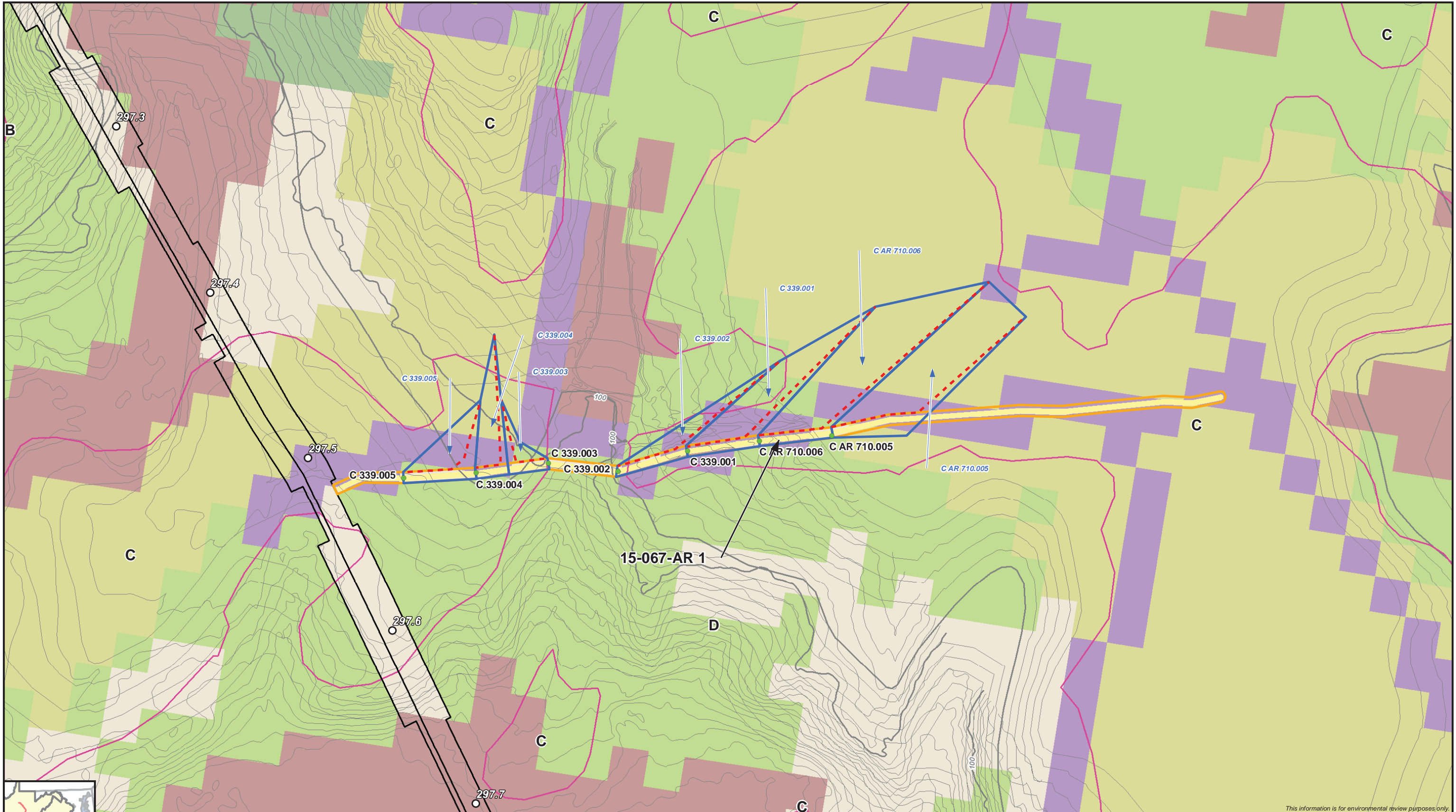
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Open Space
 - ▭ Forest

- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

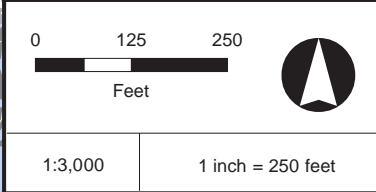
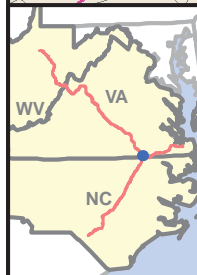
Access Road Key →



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



This information is for environmental review purposes only.



- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest
 - Grassland
 - Gravel
 - Shrub
 - Wetlands

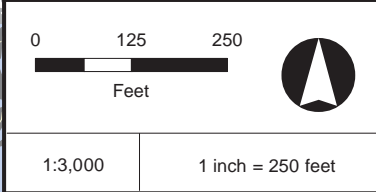
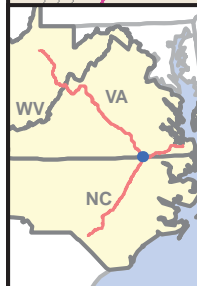


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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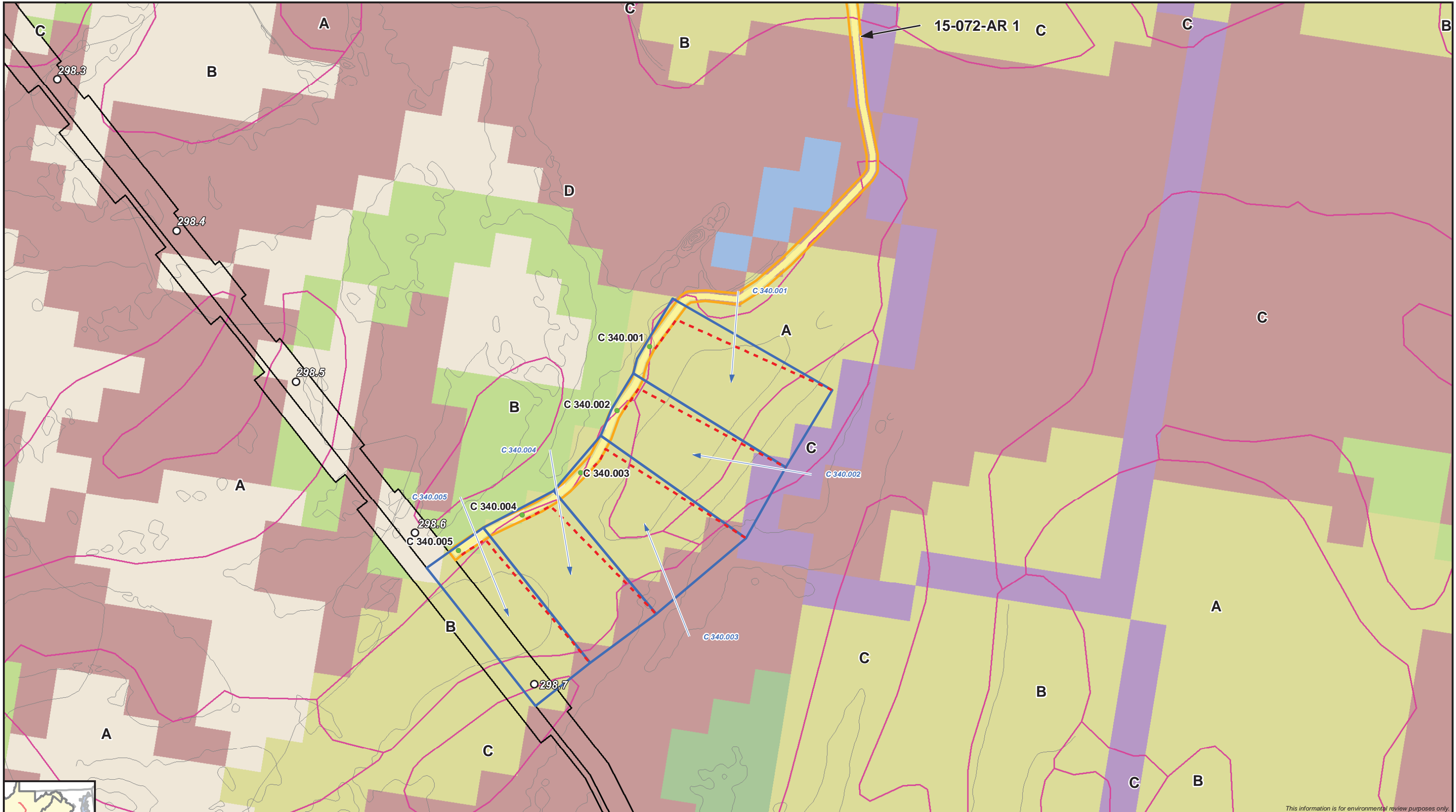


- | | | |
|---------------------------|-----------------------|-----------|
| Permanent Access Road ROW | Land Cover | Grassland |
| Major Contour | Agriculture | Gravel |
| Minor Contour | Developed, Open Space | Shrub |
| Hydrologic Soil Group | Wetlands | |

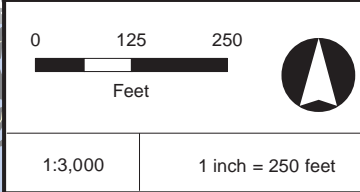
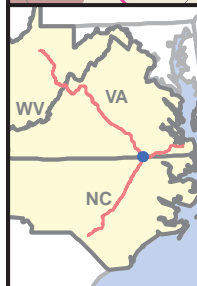


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Minor Contour
- ▭ Hydrologic Soil Group

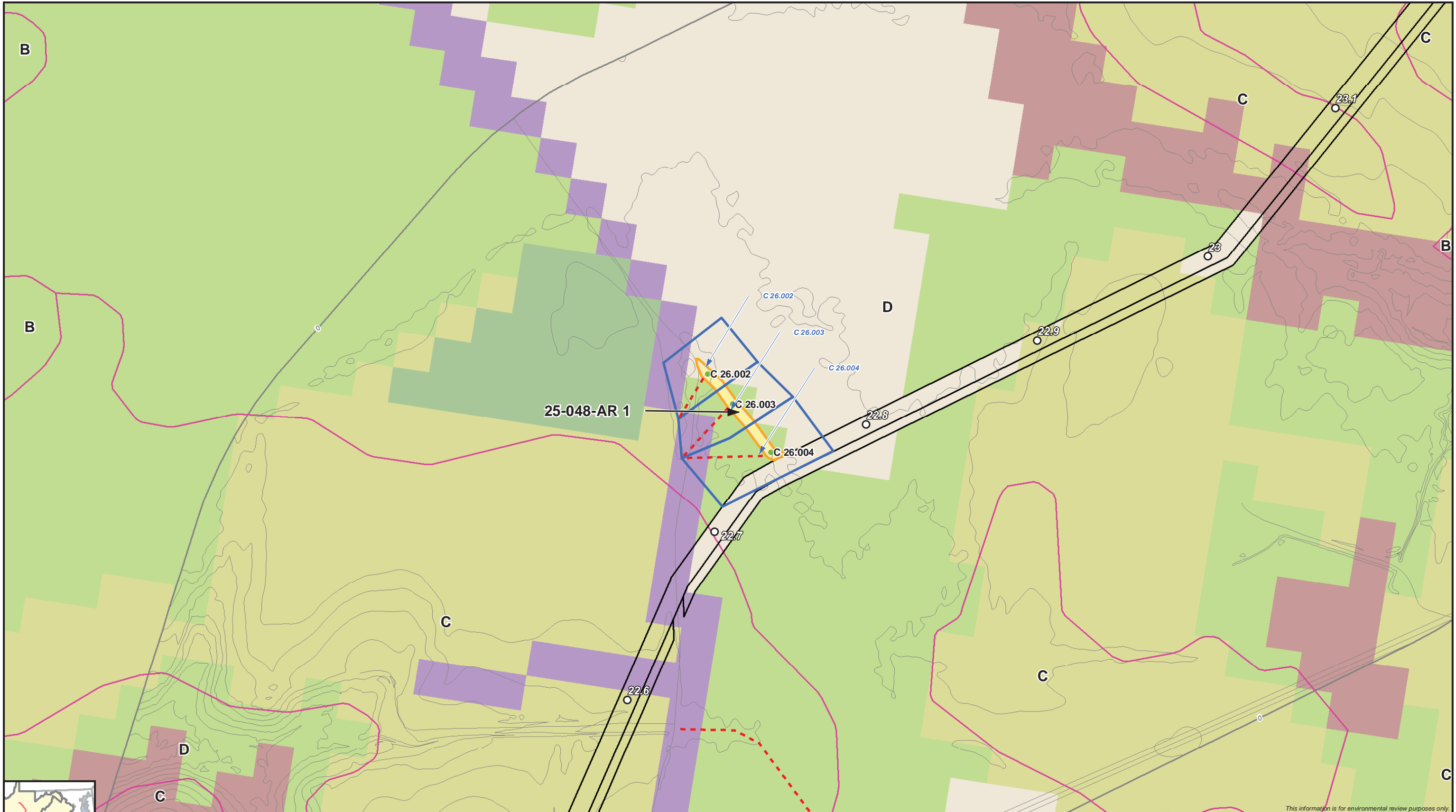
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland

- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands

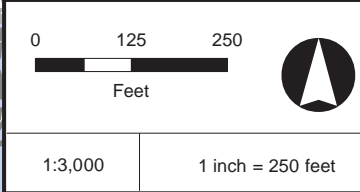
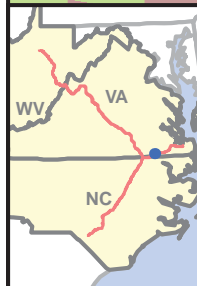


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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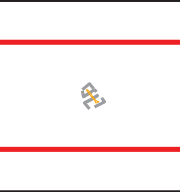


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
 - Major Contour
 - Minor Contour
 - Ⓜ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

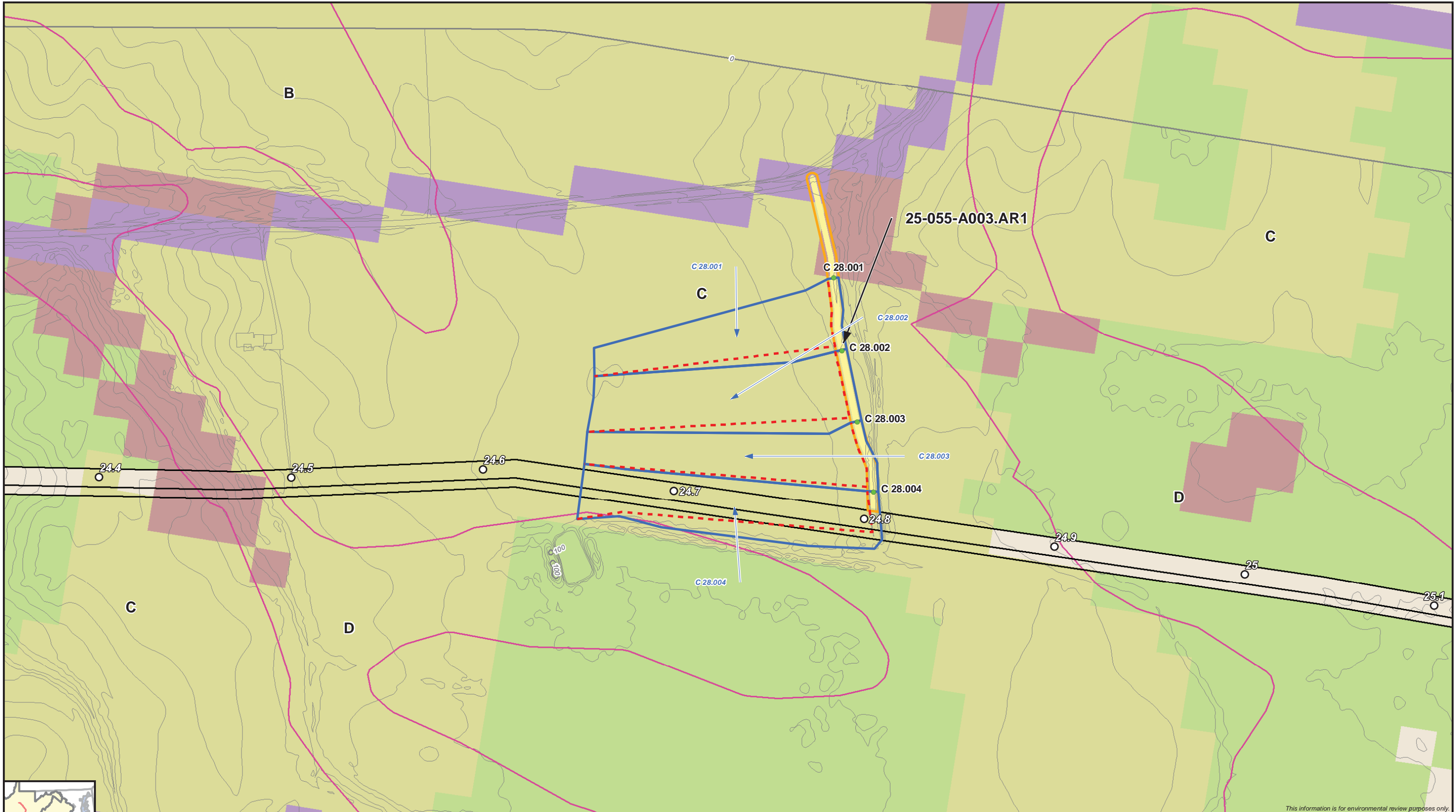
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

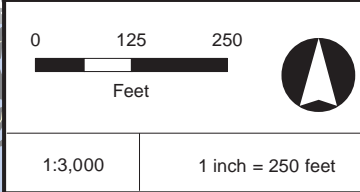
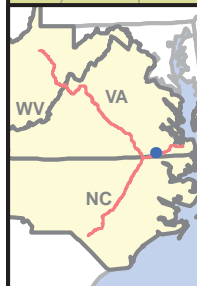


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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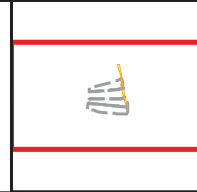
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest

- Gravel
- Shrub
- Wetlands

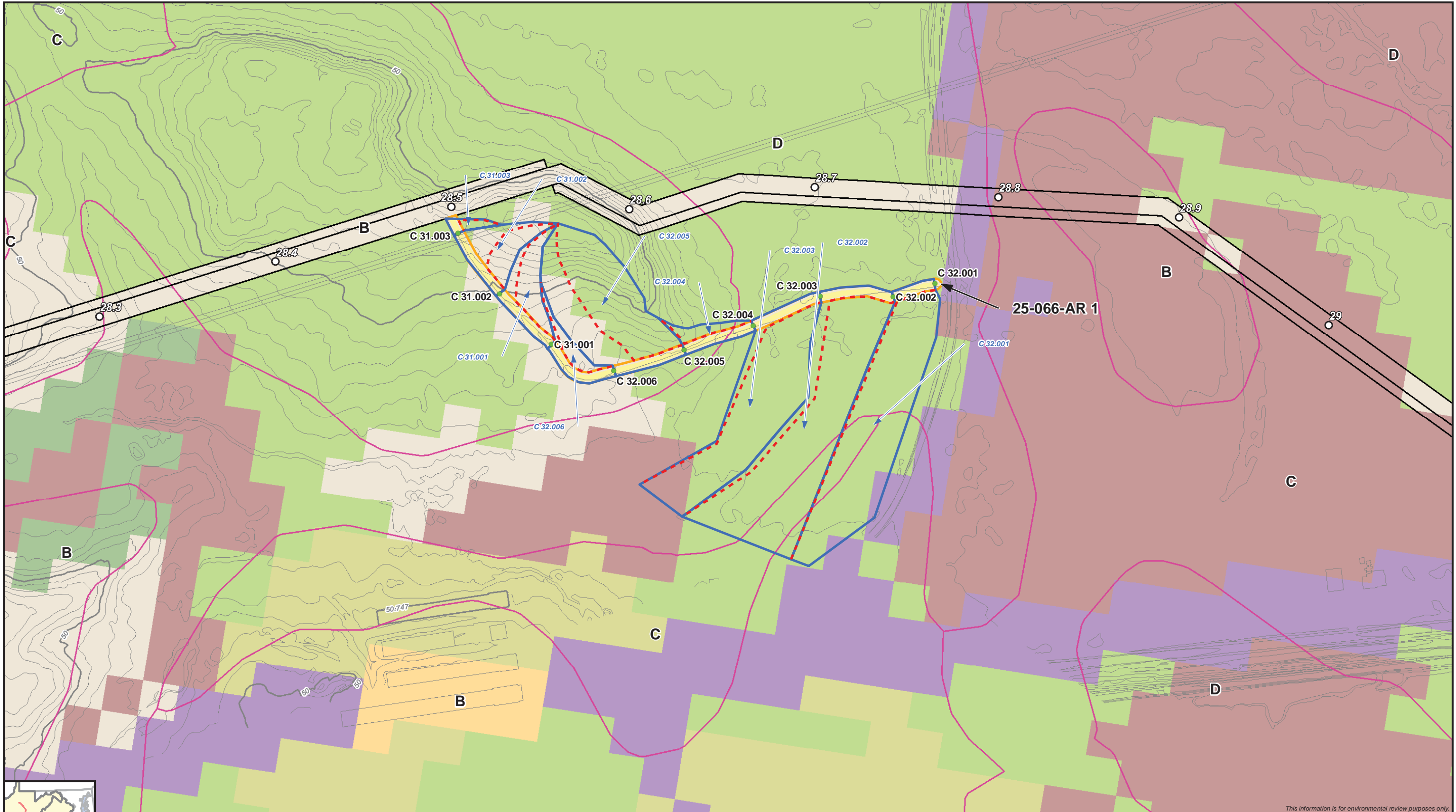
Access Road Key →



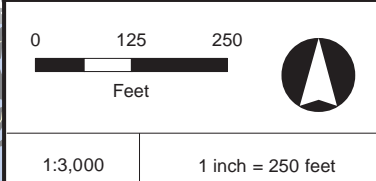
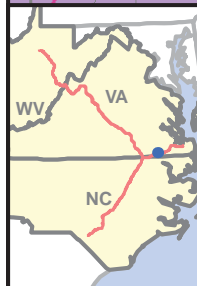
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
 - Major Contour
 - Minor Contour
 - ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Medium Intensity
 - ▭ Developed, Open Space
 - ▭ Forest

- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

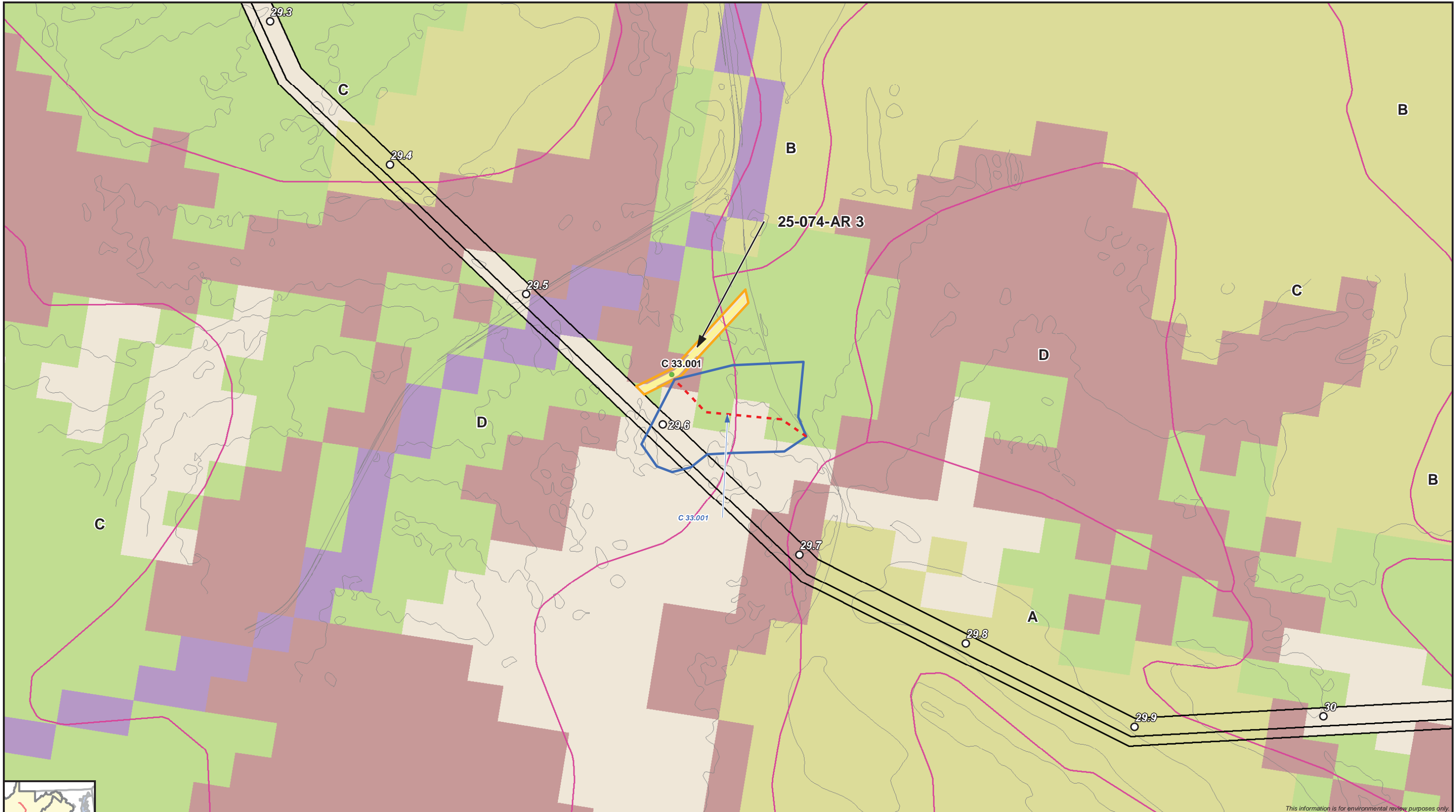
Access Road Key →



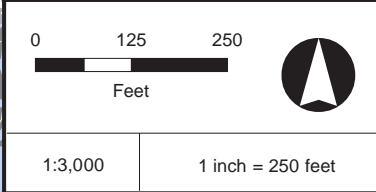
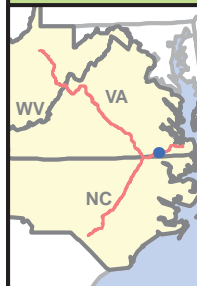
Atlantic Coast Pipeline

Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





This information is for environmental review purposes only.

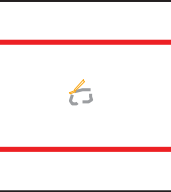


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Minor Contour
- ⓐ Hydrologic Soil Group

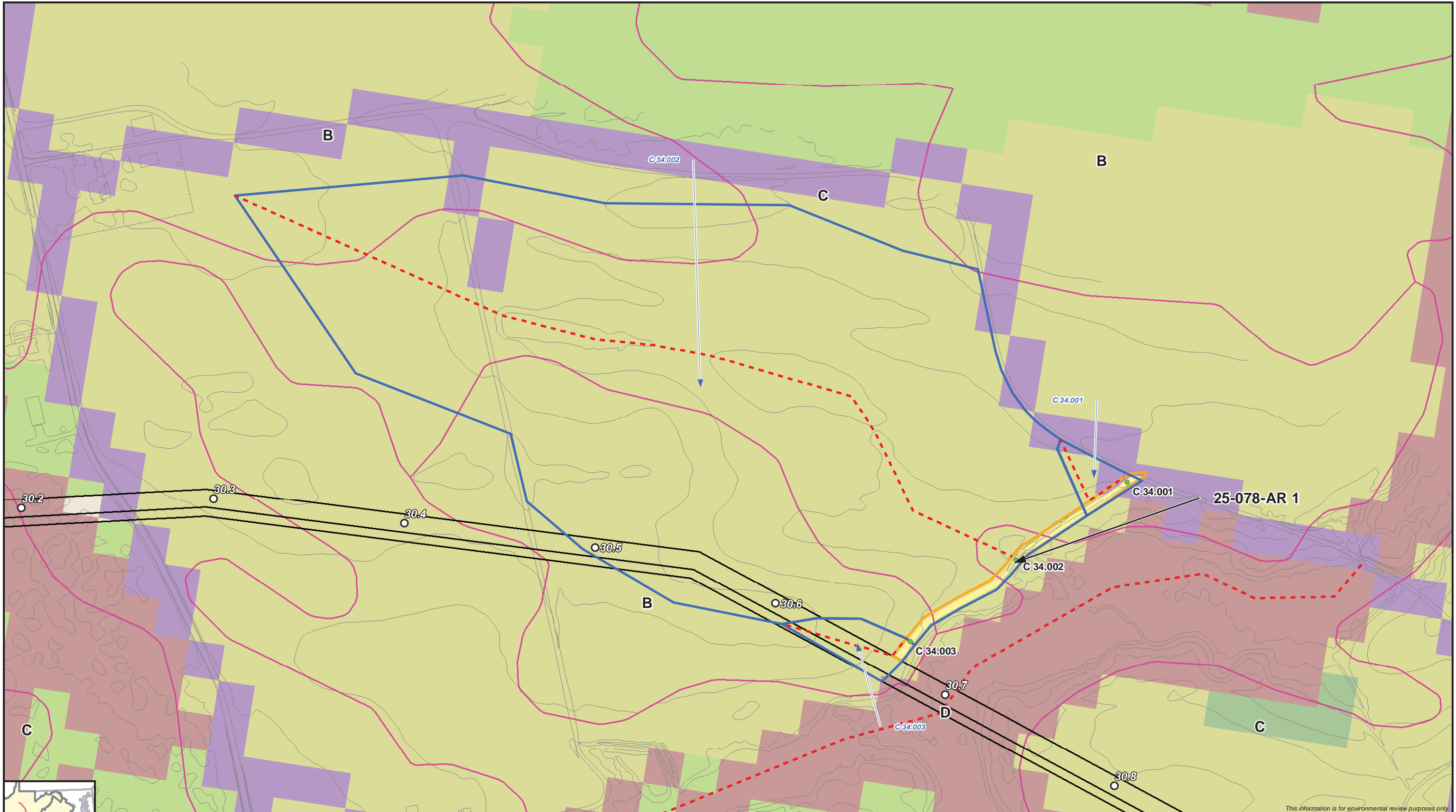
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel
 - ▭ Shrub
 - ▭ Wetlands

Access Road Key →

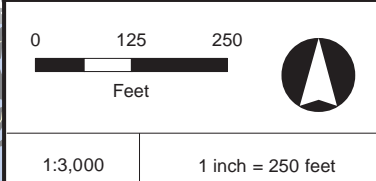
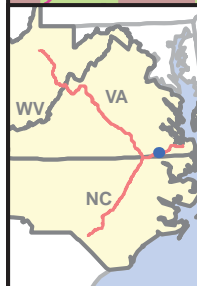


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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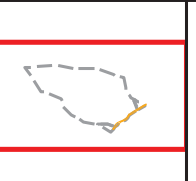
- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest

- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

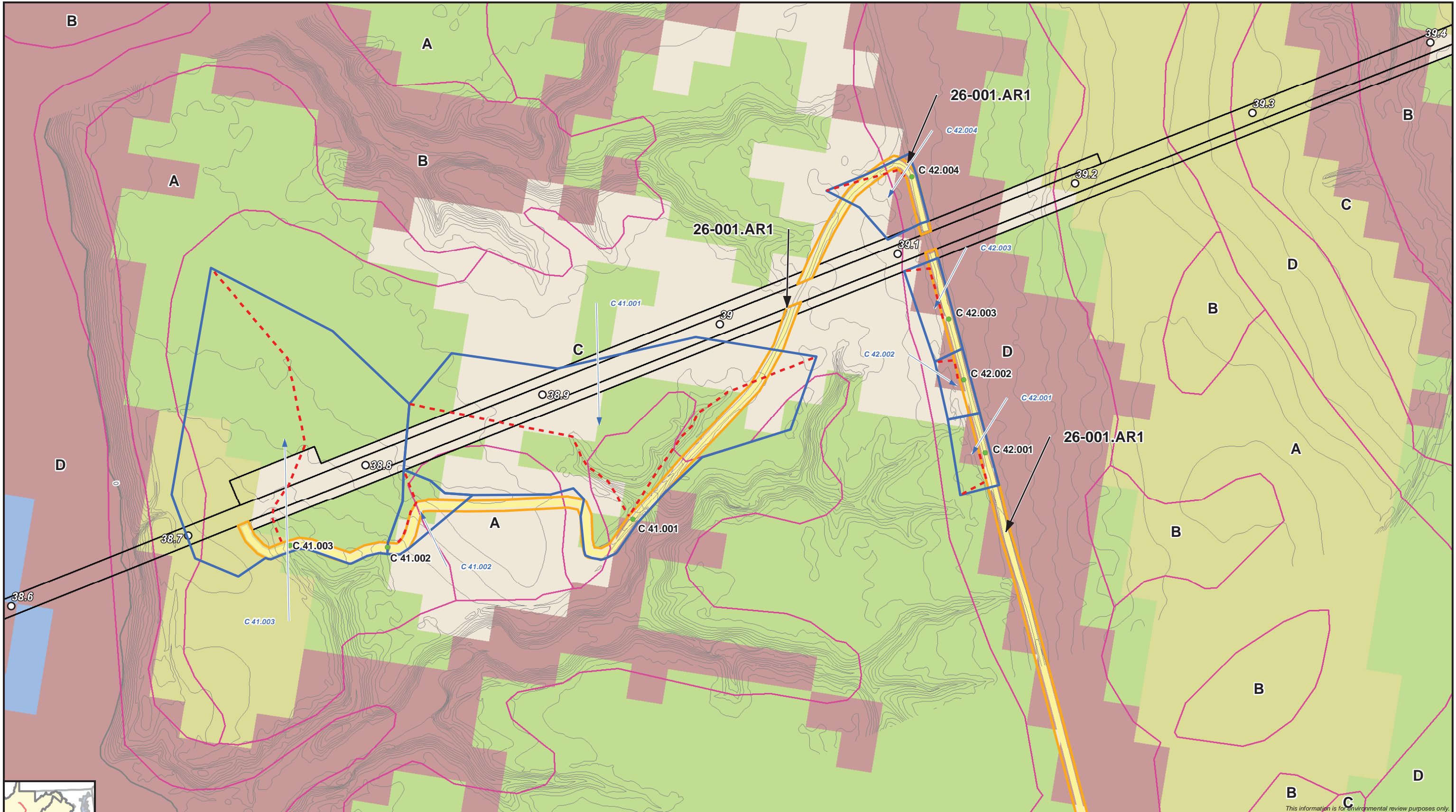
Access Road Key →



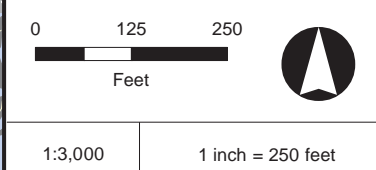
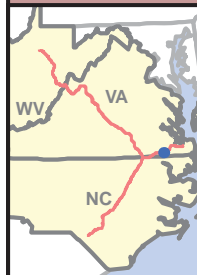
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

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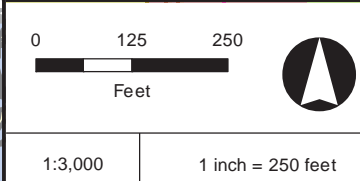
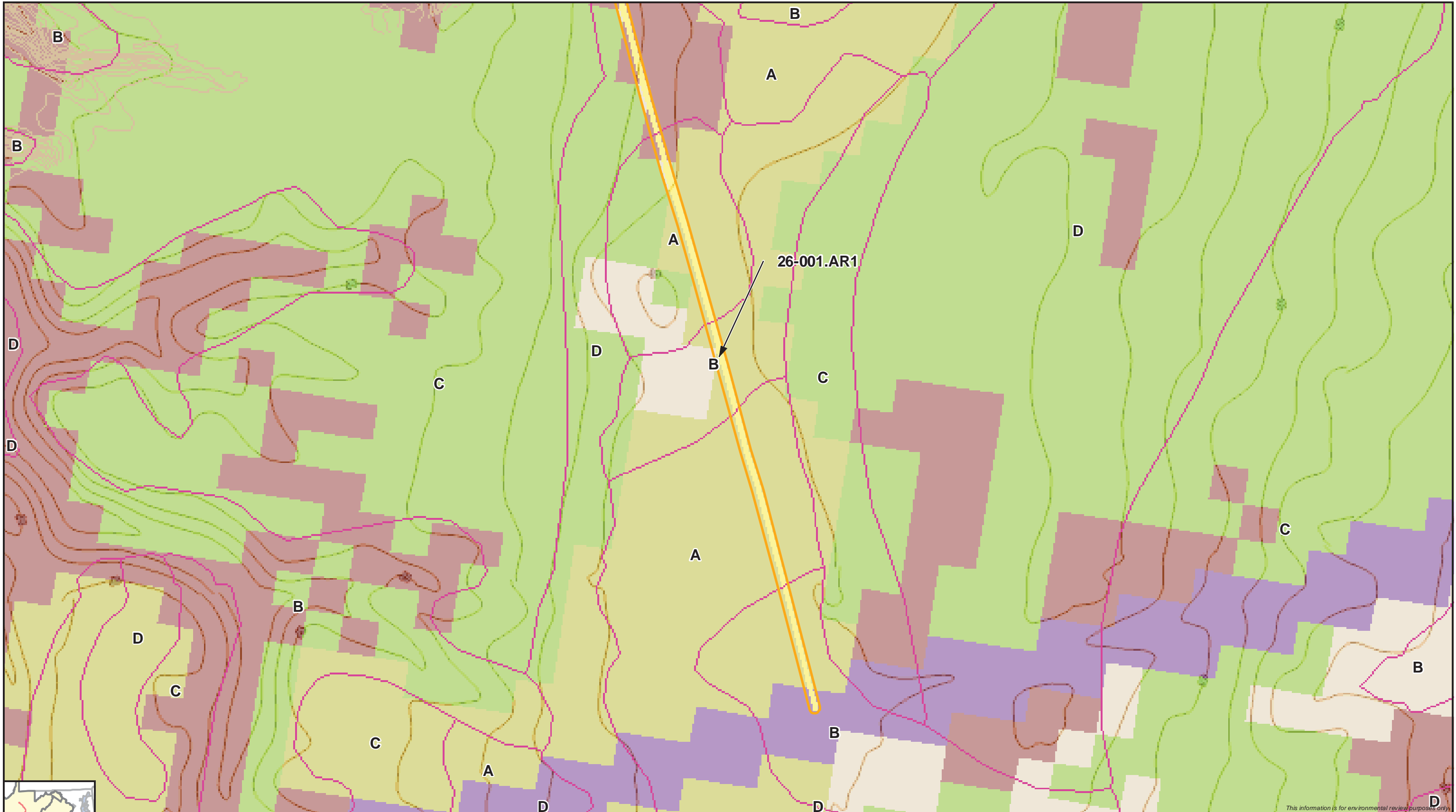


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert
- Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group
- Land Cover**
- ▭ Agriculture
- ▭ Forest
- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands



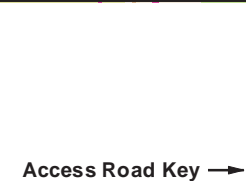
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





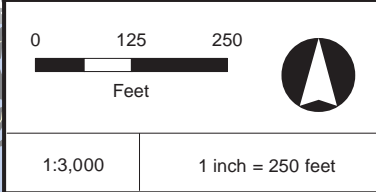
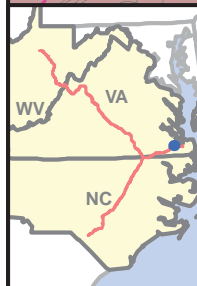
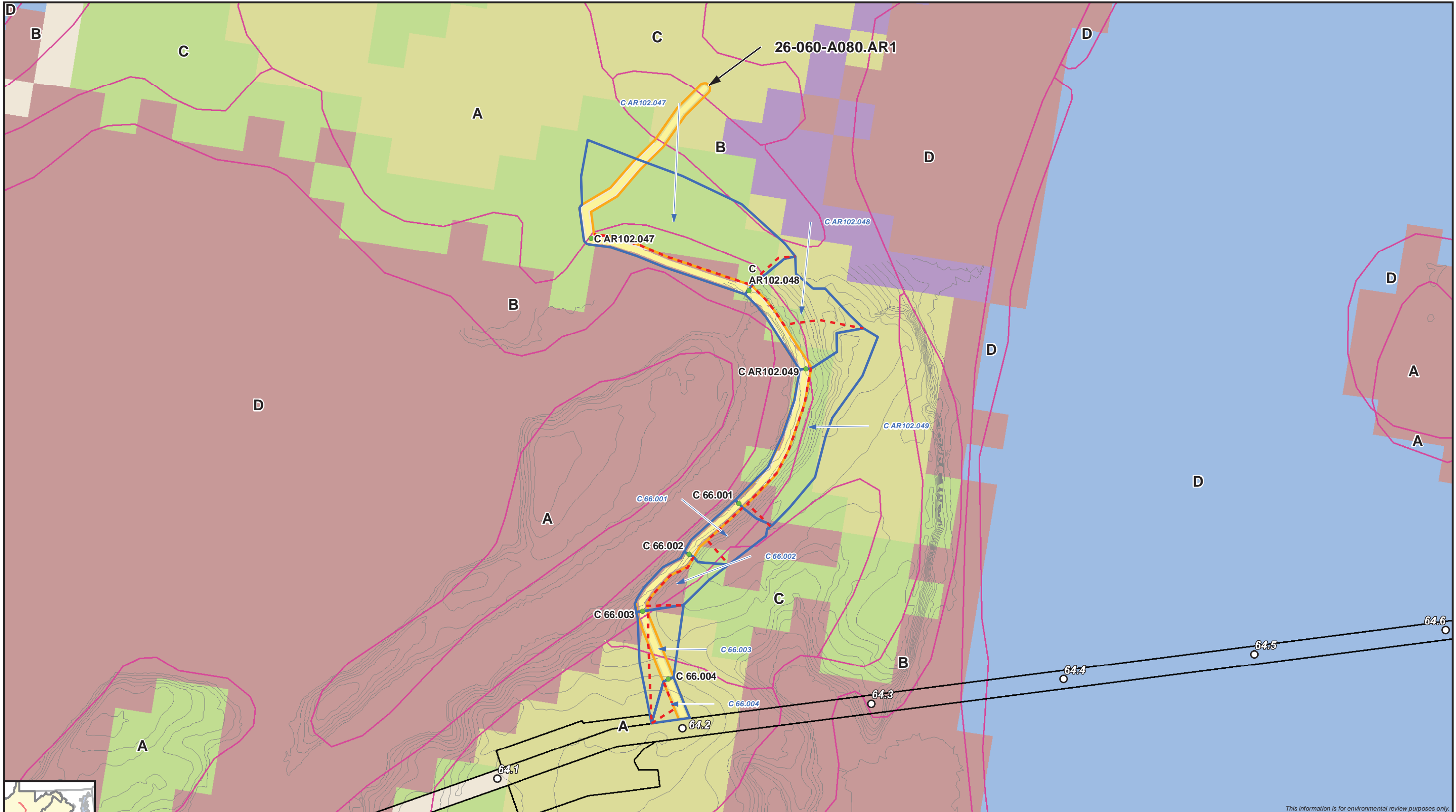
- Permanent Access Road ROW
- Minor Contour
- Land Cover**
- Agriculture
- Developed, Open Space
- Forest
- Gravel
- Shrub
- Wetlands

Hydrologic Soil Group



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



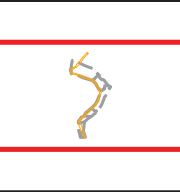


- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- Flow Path
- Minor Contour
- ▭ Hydrologic Soil Group

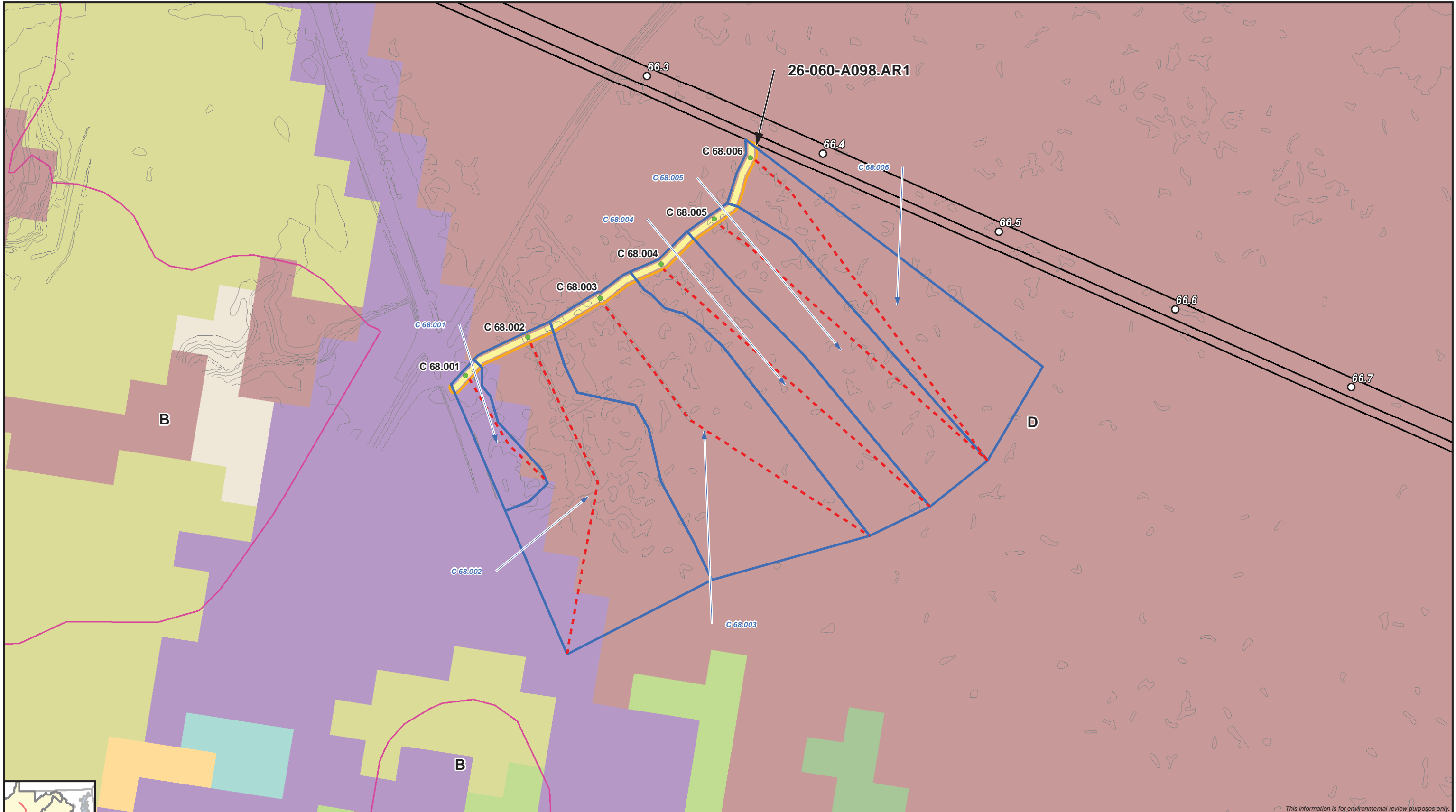
- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Gravel
 - ▭ Open Water
 - ▭ Shrub
 - ▭ Wetlands

Access Road Key →

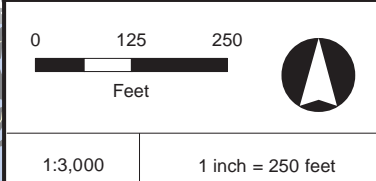
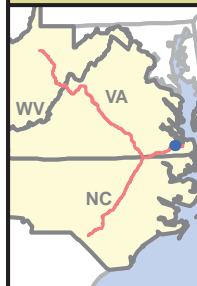


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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- Milepost
- ▭ Permanent Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Minor Contour
- ▭ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Low Intensity
 - ▭ Developed, Medium Intensity
 - ▭ Developed, Open Space

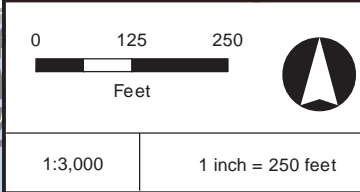
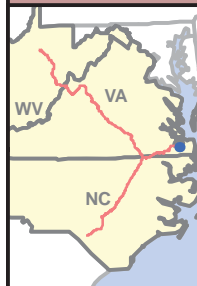
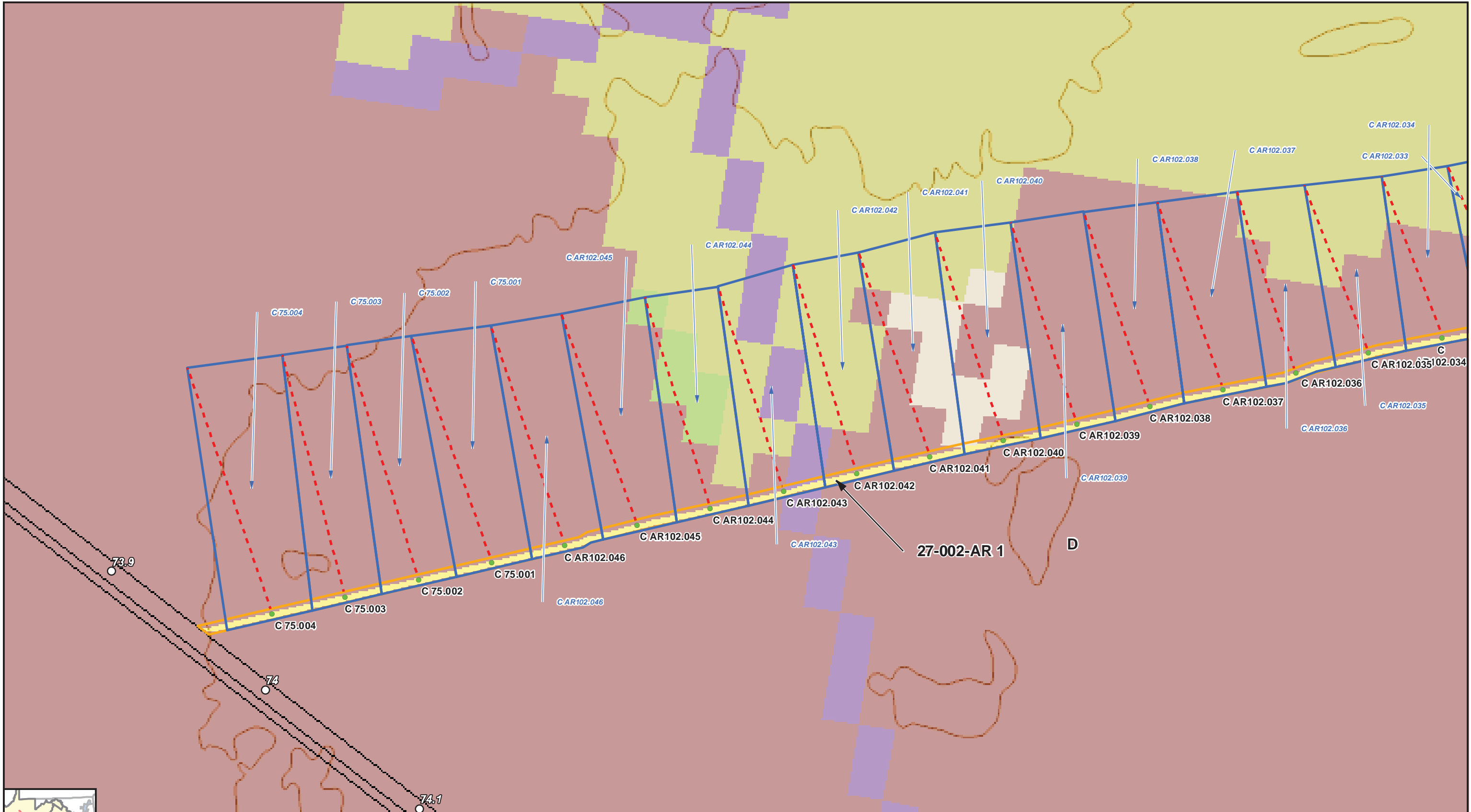
- ▭ Forest
- ▭ Grassland
- ▭ Gravel
- ▭ Shrub
- ▭ Wetlands

Access Road Key →

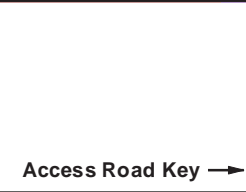
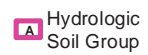


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Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

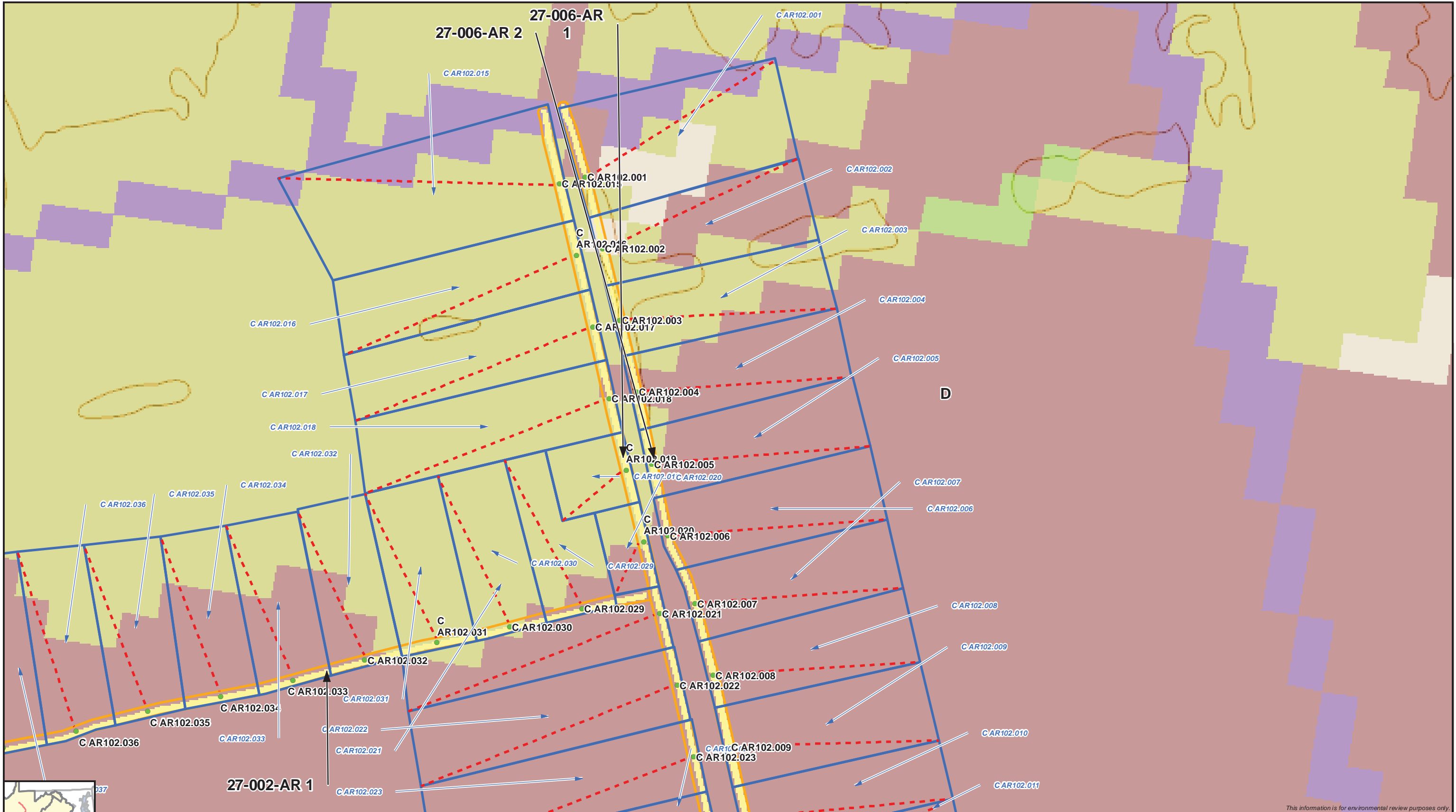


- Milepost
- Permanent Access Road ROW
- Pipeline ROW
- Culvert Drainage Area
- Culvert
- Flow Path
- Land Cover**
- Agriculture
- Developed, Open Space
- Forest
- Gravel
- Shrub
- Wetlands

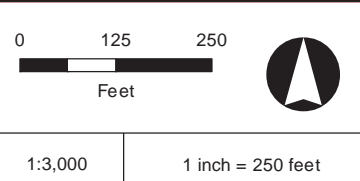
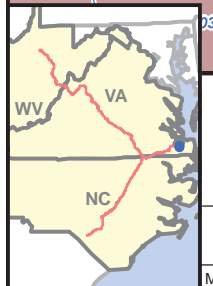


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





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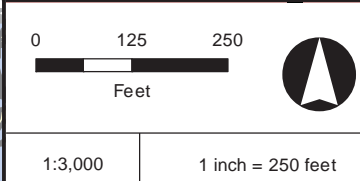
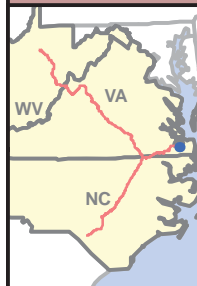
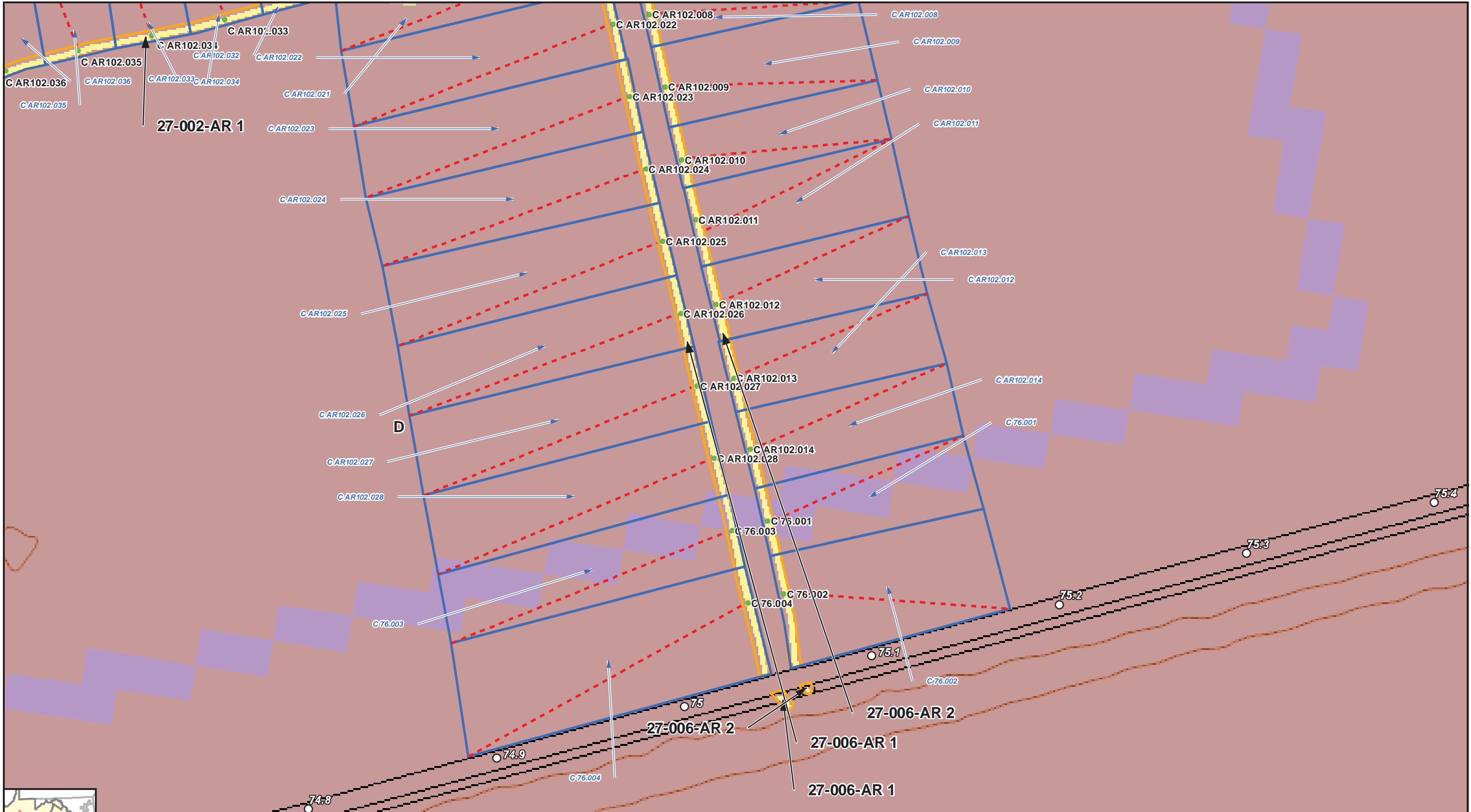
Permanent Access Road ROW	Land Cover	Shrub
Culvert Drainage Area	Agriculture	Wetlands
Culvert	Developed, Open Space	
Flow Path	Forest	
	Gravel	

Hydrologic Soil Group



Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions





- Milepost
- Permanent Access Road ROW
- Pipeline ROW
- Culvert Drainage Area
- Culvert
- Flow Path
- Land Cover
 - Agriculture
 - Developed, Open Space
 - Gravel
- Wetlands

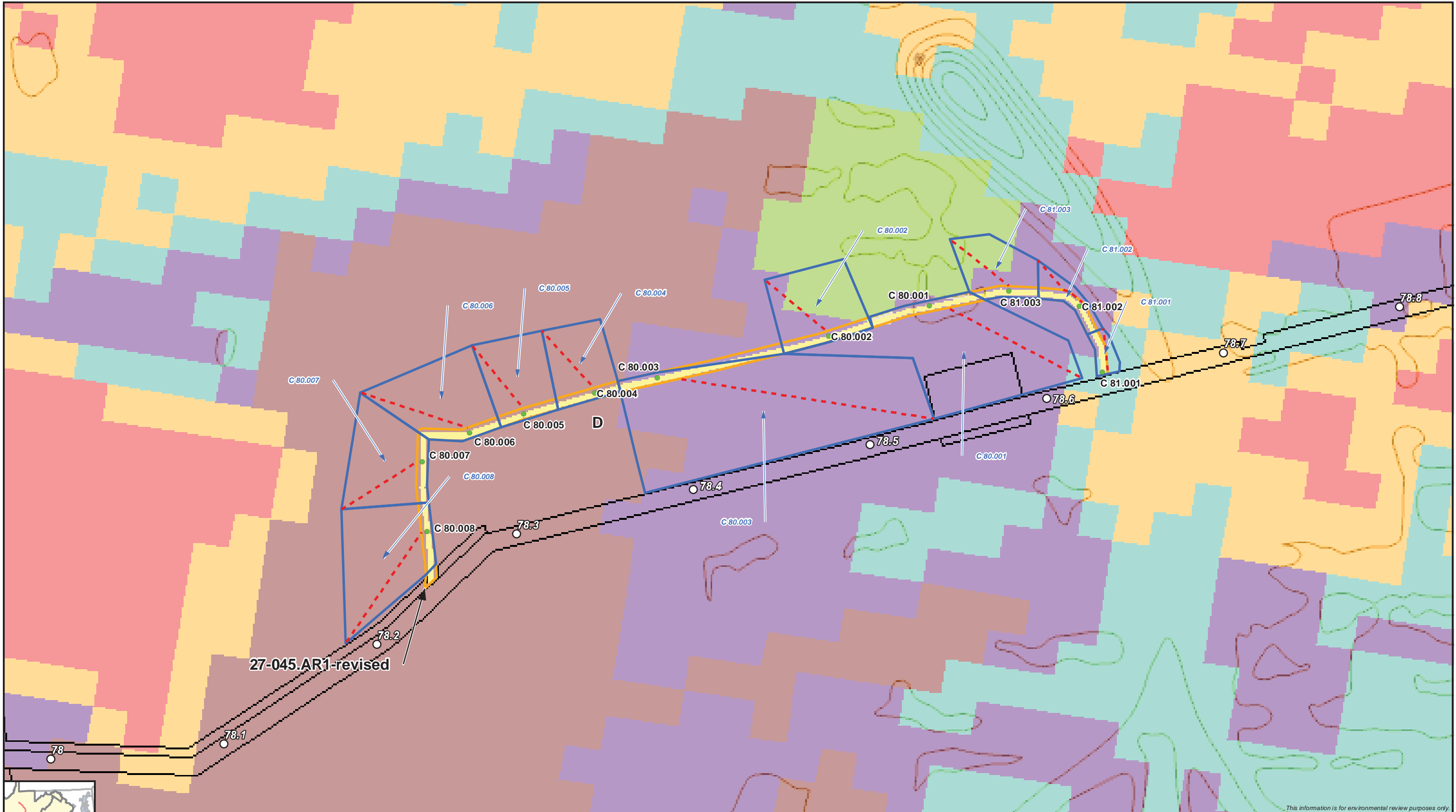
Hydrologic Soil Group



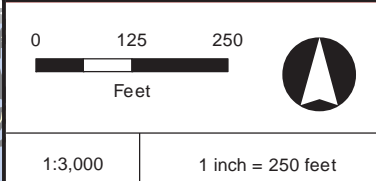
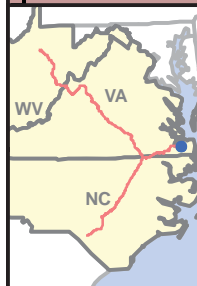
Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions



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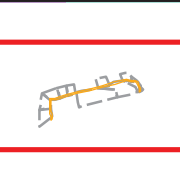


This information is for environmental review purposes only.



○ Milepost	--- Flow Path	Developed, Open Space
▭ Permanent Access Road ROW	Land Cover	Forest
▭ Pipeline ROW	Developed, High Intensity	Gravel
▭ Culvert Drainage Area	Developed, Low Intensity	Shrub
● Culvert	Developed, Medium Intensity	Wetlands
		Hydrologic Soil Group

Access Road Key →

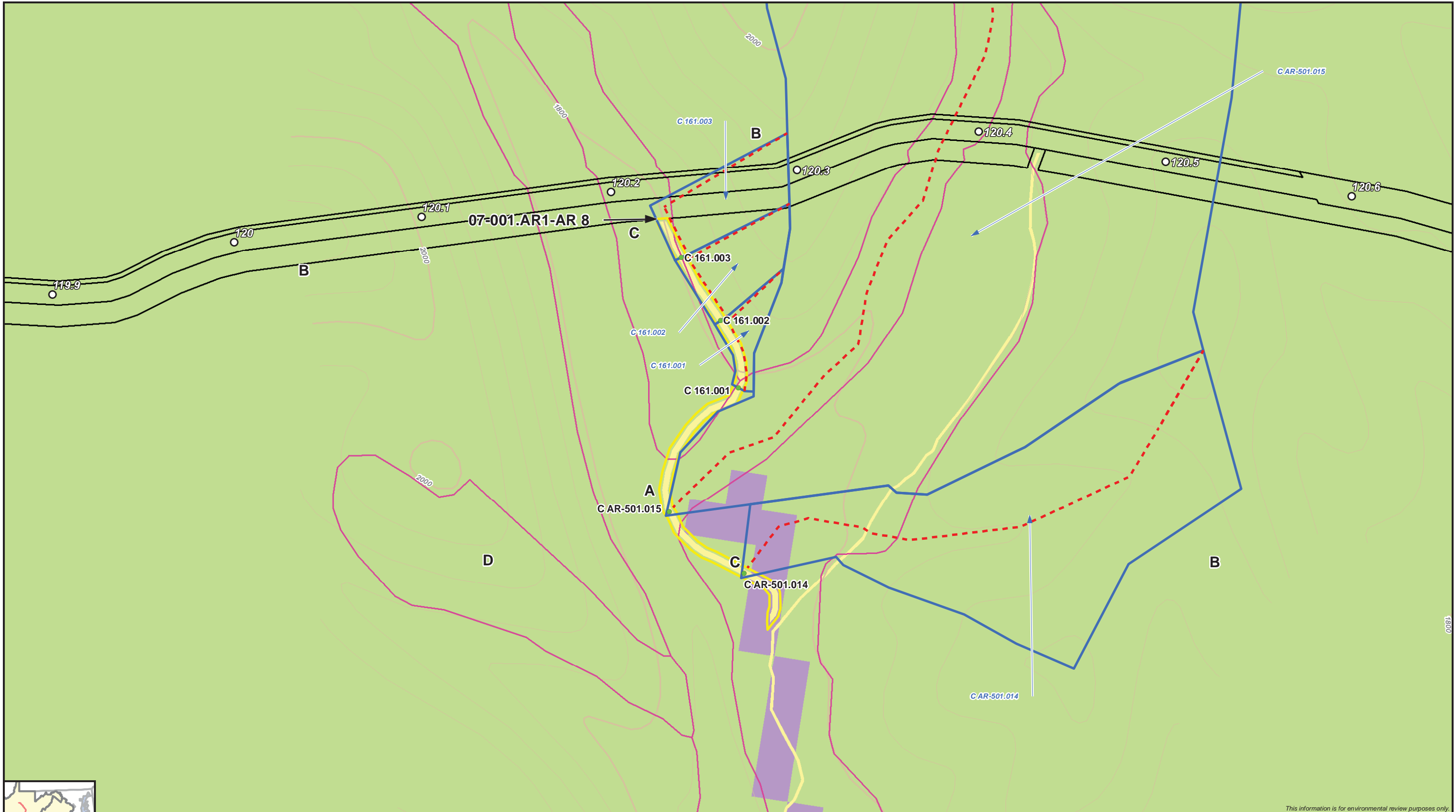


Virginia
Culvert and Ditch Analysis
 Permanent Access Roads
 Post-Development Conditions

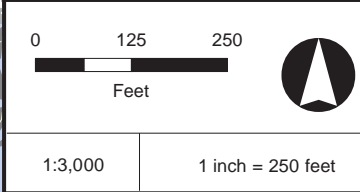
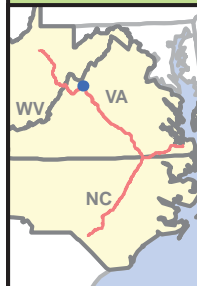


FIGURE 2.3

Culvert and Ditch Analysis Map Book for Temporary Access Roads, Development
Conditions

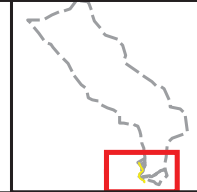


This information is for environmental review purposes only.



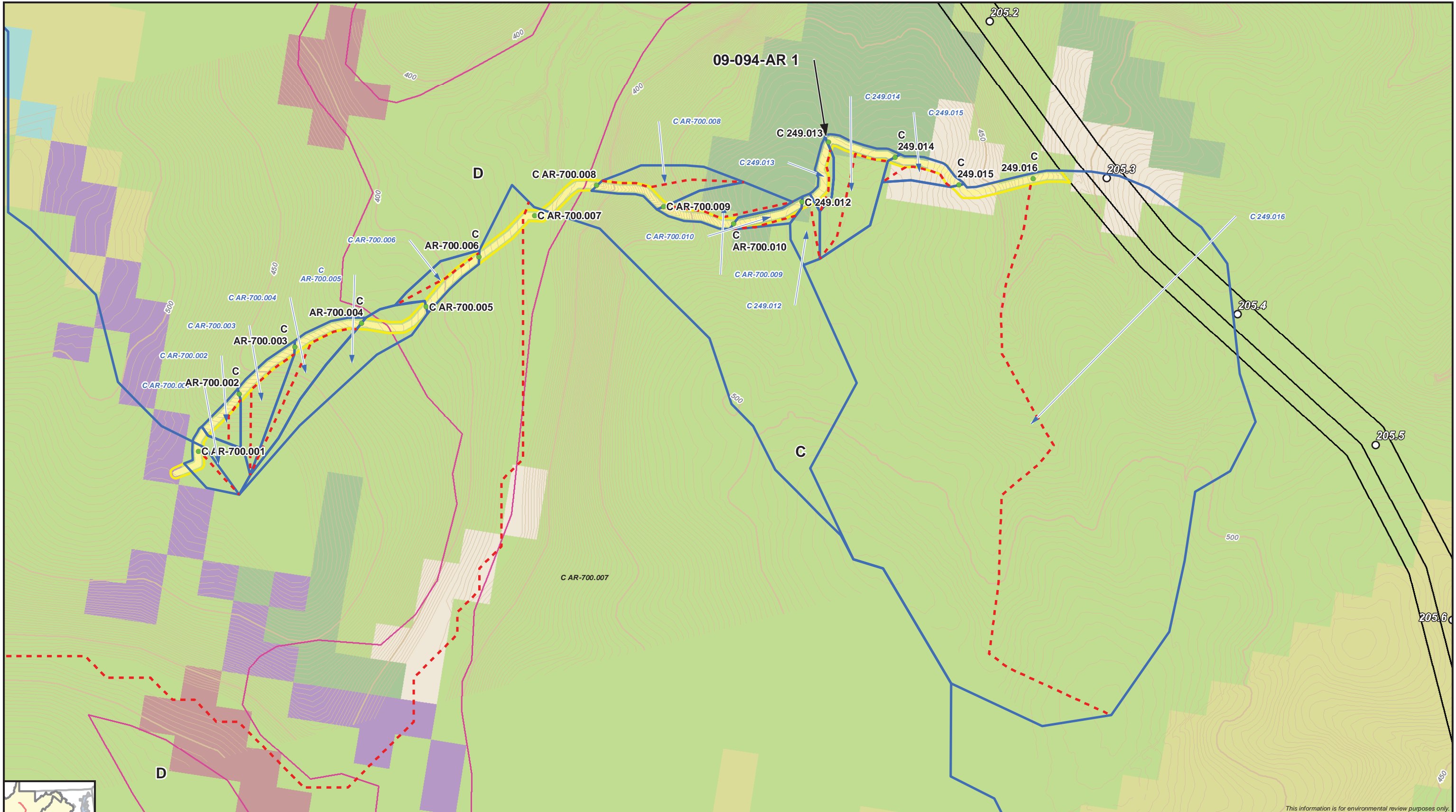
○ Milepost	--- Flow Path	Land Cover	Forest
▭ Temporary Access Road ROW	— Major Contour	Developed, Open Space	Gravel
▭ Pipeline ROW	--- Minor Contour		
▭ Culvert Drainage Area	ⓐ Hydrologic Soil Group		
● Culvert			

Access Road Key →

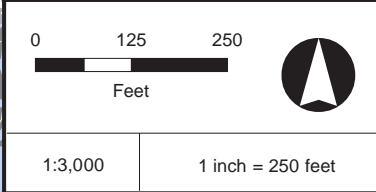


**Virginia
Culvert and Ditch Analysis**
Temporary Access Roads
Construction Conditions





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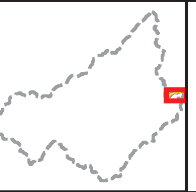


- Milepost
- ▭ Temporary Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- Ⓜ Hydrologic Soil Group

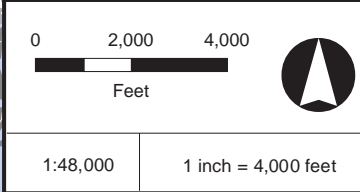
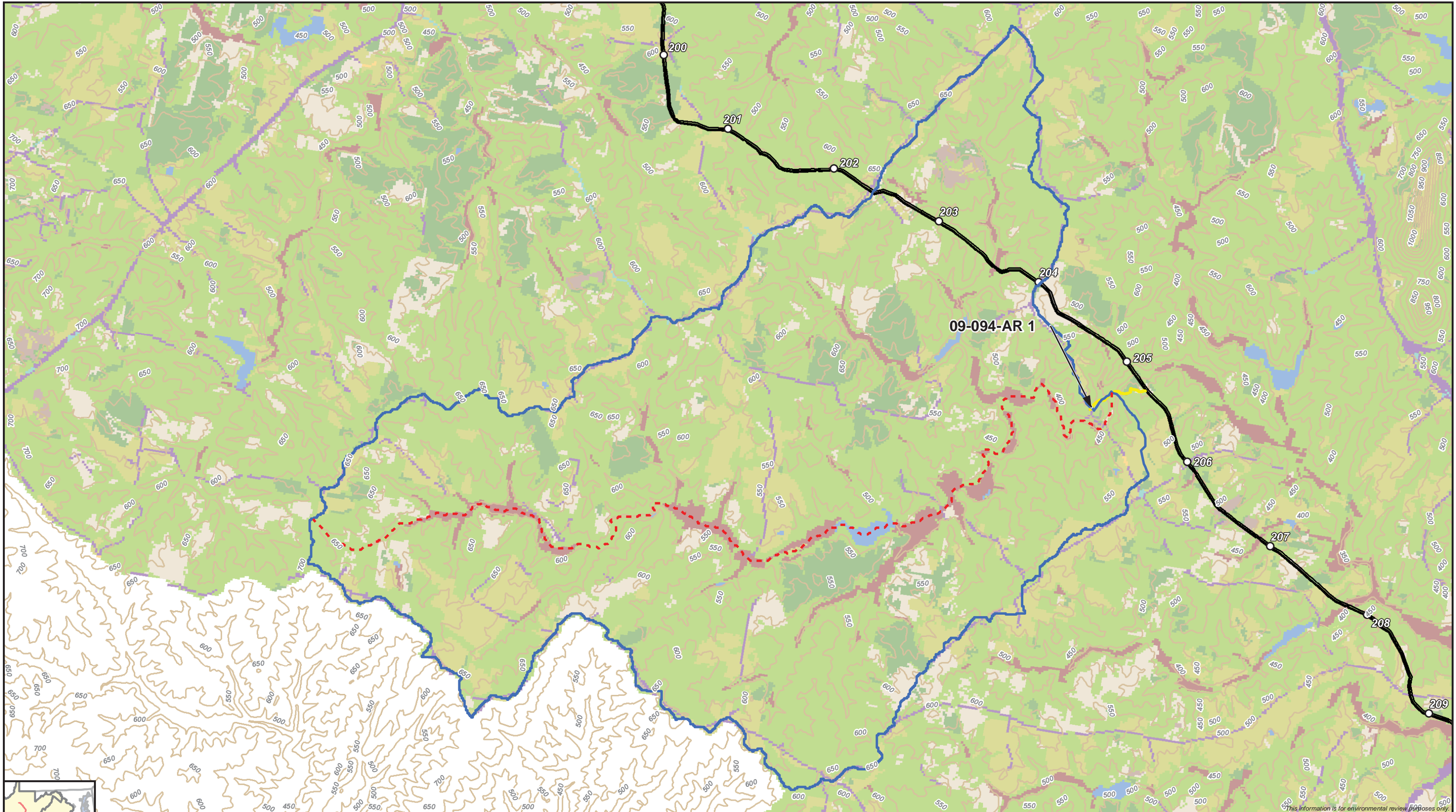
- Land Cover**
- Grassland
 - Agriculture
 - Developed, Low Intensity
 - Developed, Open Space
 - Forest
 - Gravel
 - Shrub
 - Wetlands

Access Road Key →



**Virginia
Culvert and Ditch Analysis**
Temporary Access Roads
Construction Conditions





- Milepost
- ▭ Temporary Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area

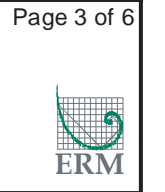
- - - Flow Path
- 25 ft. Contour
- Ⓜ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Barren Land
 - ▭ Developed, Low Intensity
 - ▭ Developed, Medium Intensity
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Open Water
 - ▭ Shrub
 - ▭ Wetlands

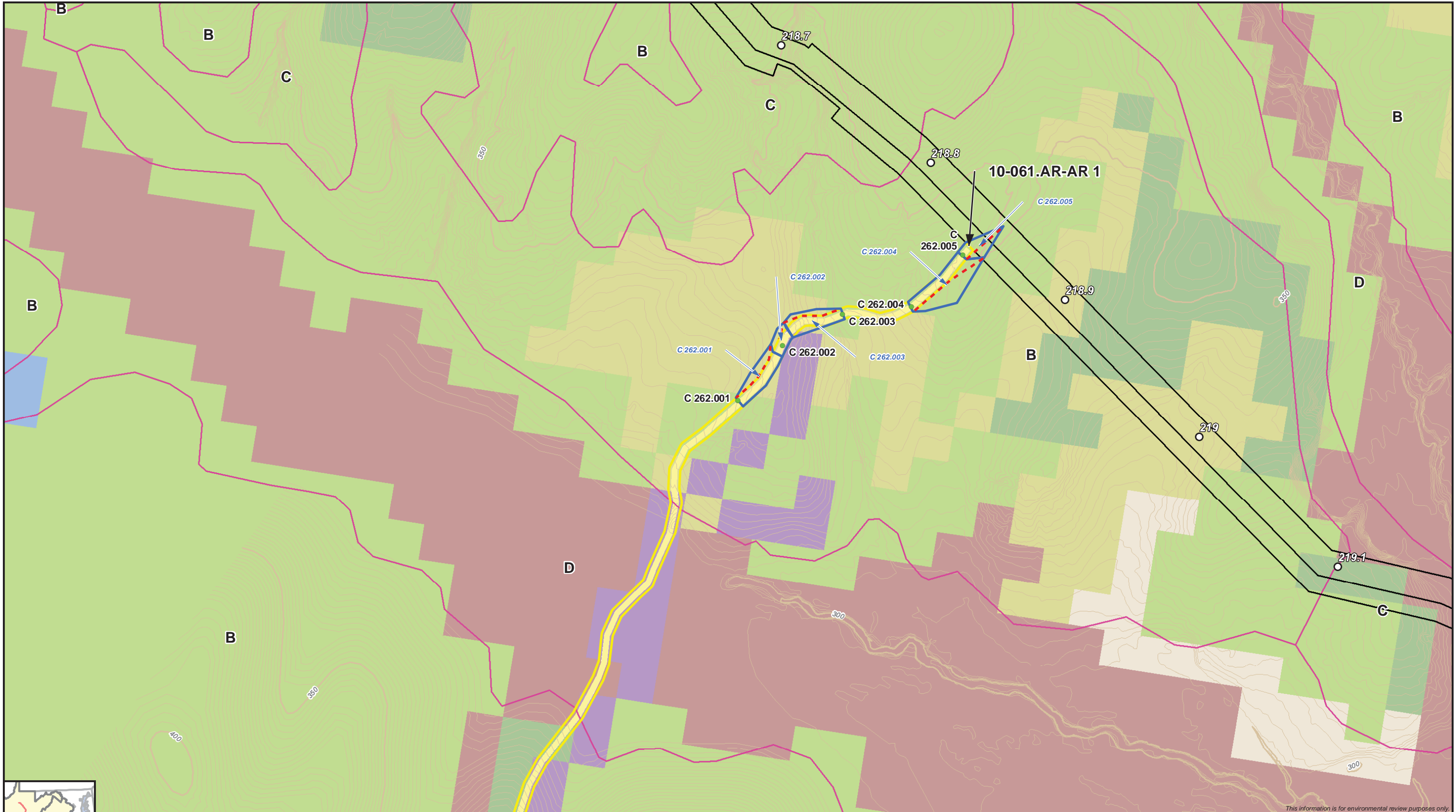
Access Road Key →



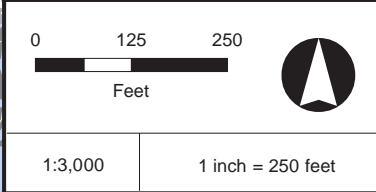
Virginia
Culvert and Ditch Analysis
 Temporary Access Roads
 Construction Conditions
 Full Extent of Drainage Basin C AR-700.007



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- Milepost
- ▭ Temporary Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

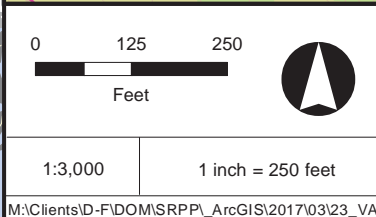
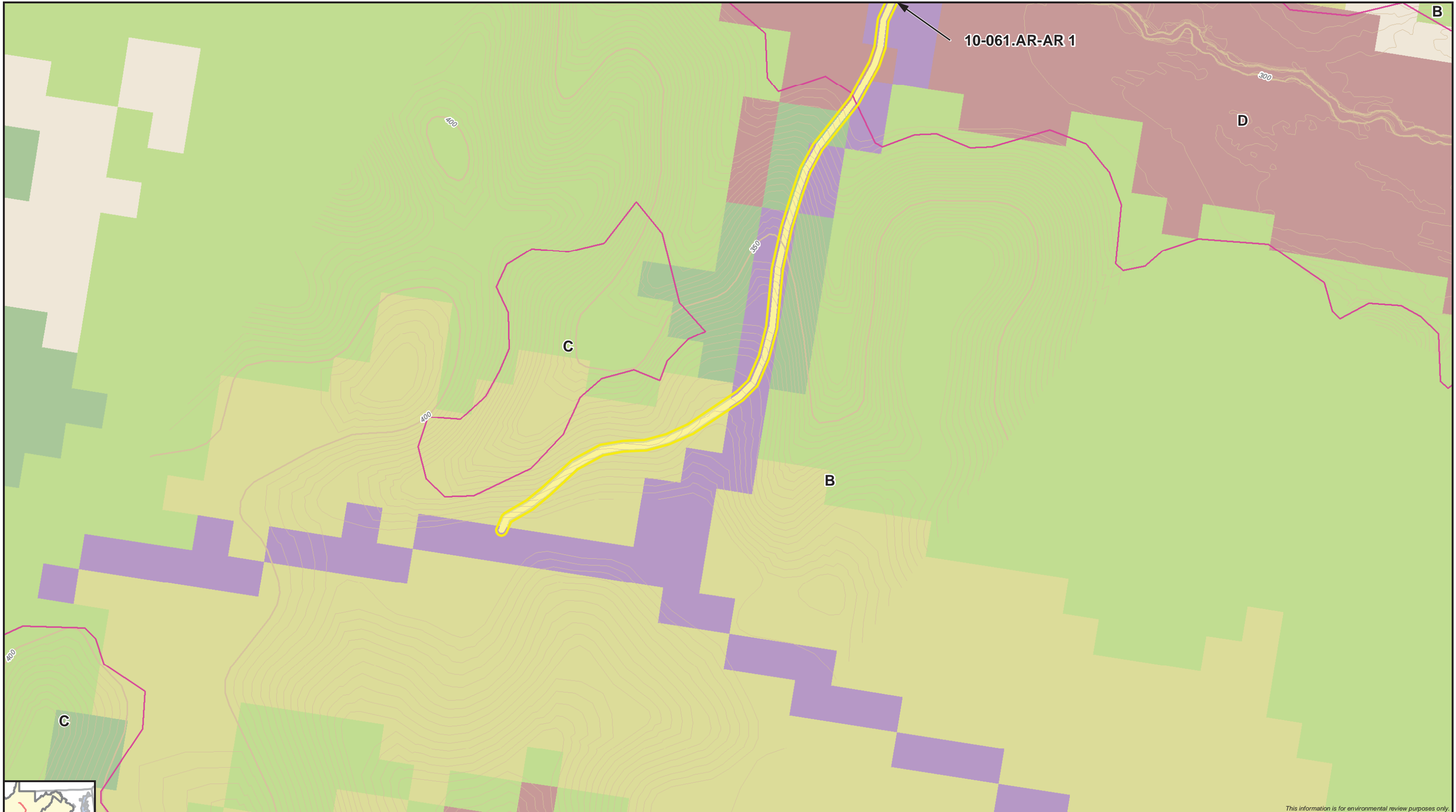
- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland

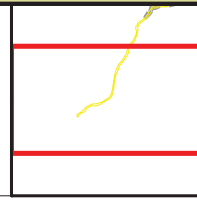
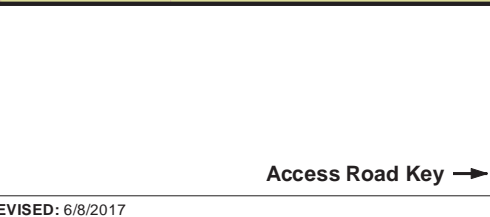
- ▭ Gravel
- ▭ Open Water
- ▭ Shrub
- ▭ Wetlands



Virginia
Culvert and Ditch Analysis
 Temporary Access Roads
 Construction Conditions



Temporary Access Road ROW		Land Cover	
	Temporary Access Road ROW		Grassland
	Major Contour		Agriculture
	Minor Contour		Developed, Open Space
			Forest
			Hydrologic Soil Group
			Shrub
			Wetlands
			Gravel

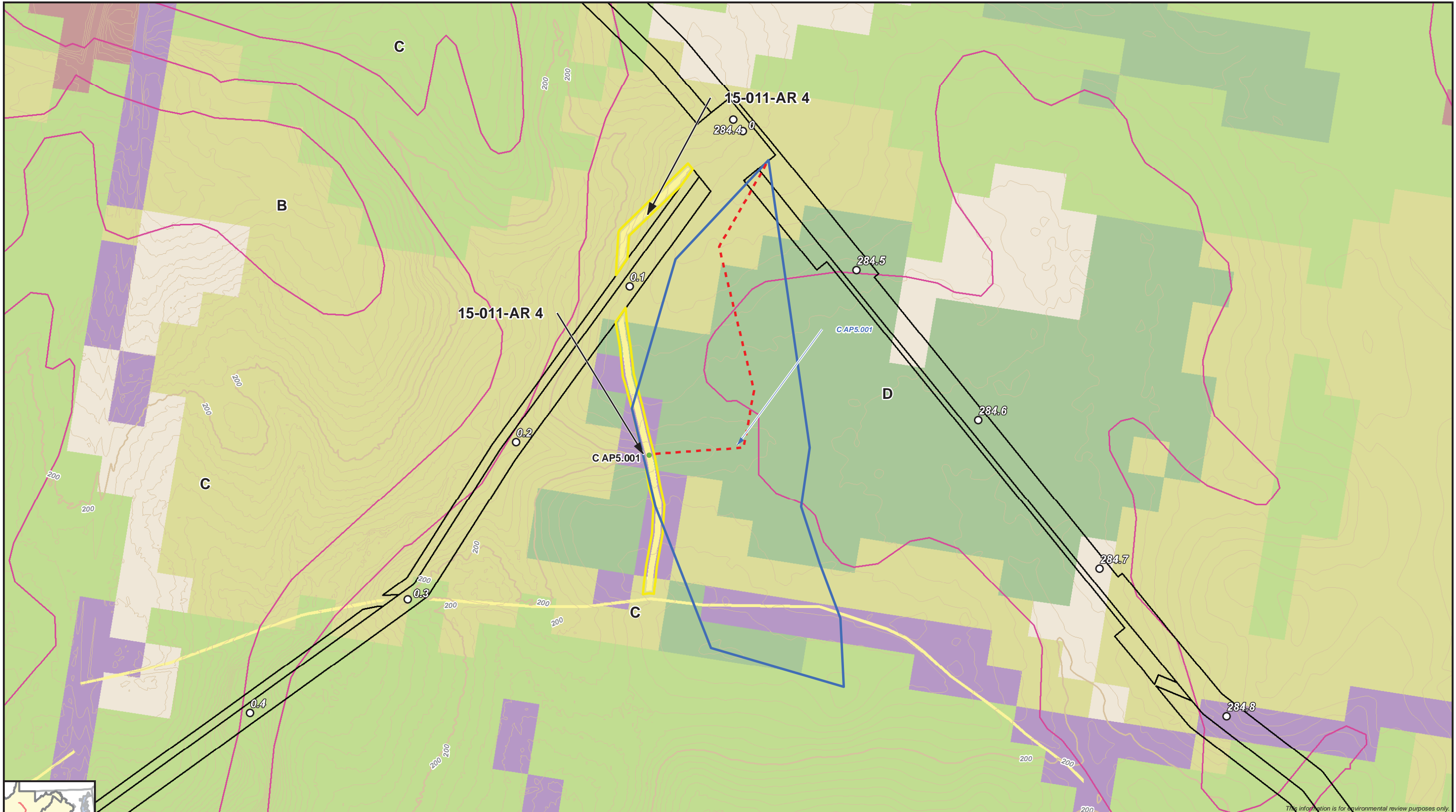


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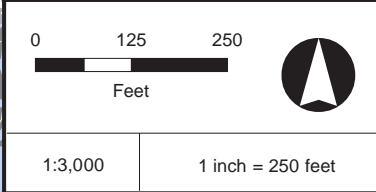
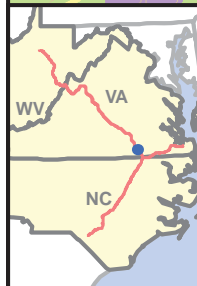
Virginia
Culvert and Ditch Analysis
 Temporary Access Roads
 Construction Conditions

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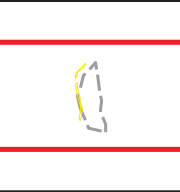


- Milepost
- ▭ Temporary Access Road ROW
- ▭ Pipeline ROW
- ▭ Culvert Drainage Area
- Culvert

- - - Flow Path
- Major Contour
- Minor Contour
- ⓐ Hydrologic Soil Group

- Land Cover**
- ▭ Agriculture
 - ▭ Developed, Open Space
 - ▭ Forest
 - ▭ Grassland
 - ▭ Gravel
 - ▭ Shrub
 - ▭ Wetlands

Access Road Key →



Virginia
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 Temporary Access Roads
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FIGURE 3.1

Water Quality Map Book, Pre-Development Conditions

Figure 3.1 Water Quality Map Book, Pre-Development Conditions

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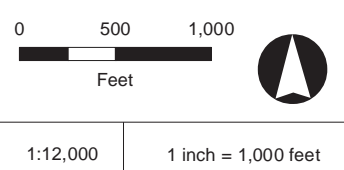
HUC-12 Watershed	Workspace	Access Road Category	Figure 3.1 Water Quality Map Book, Pre-Development Conditions PAGE
Angola Creek-Appomattox River	ROW	-	51, 52, 53
Barterbrook Branch-Christians Creek	07-001-A155.AR-AR 1 ROW	Proposed New Road -	27 26, 27, 28
Beaver Creek-Rockfish River	08-210.AR-AR 1 ROW	Proposed New Road -	38 37, 38, 39
Beaver Pond Creek-Nottoway River	13-041-AR 1 14-001-AR 1 ROW	Proposed New Road Proposed New Road -	66, 67 66, 67 65, 66, 67, 68
Bennett Creek-Nansemond River	26-060-A080.AR1 26-060-A082.AR1 ROW	Major Upgrade Proposed New Road -	99 99 98, 99, 100
Bishop Creek-Willis River	09-080-AR 1 09-103.AR2 09-113-AR 1 09-113-AR 3 ROW	Proposed New Road Major Upgrade Major Upgrade Proposed New Road -	46 47, 48 48 48 46, 47, 48
Bolar Run-Jackson River	06-001-C028.AR2 06-001-C032.AR1 06-001-C036.AR1 06-001-C037.AR1 06-001-C037.AR2 06-001-C037.AR3 36-014.AR2 ROW	Major Upgrade Major Upgrade Major Upgrade Major Upgrade Major Upgrade Major Upgrade Major Upgrade -	3 3 4 4 4 4 4 5, 6, 7 3, 4, 5, 6, 7
Buck Creek-Rockfish River	08-014-AR 1 08-086-A036.AR1 08-086-A039-AR 1 08-086-A045-AR 1 08-086-A045-AR 2 08-113-AR 1 08-113-AR 2 ROW	Major Upgrade Proposed New Road Proposed New Road Proposed New Road Proposed New Road Proposed New Road Proposed New Road -	34 35 36 36 36 34 34 33, 34, 35, 36
Buckhorn Swamp-Meherrin River	ROW	-	81, 82
Buffalo Branch-Middle River	ROW	-	22, 23
Butterwood Creek	13-006.AR1 13-007.AR1 ROW	Major Upgrade Major Upgrade -	63 63 62, 63, 64, 65
Cabin Creek-Mill Creek	36-091.AR1 ROW	Major Upgrade -	13 11, 12, 13
Canada Run-South River	ROW	-	27, 28, 29, 30
Cattail Creek-Fontaine Creek	15-029-AR 2 ROW	Proposed New Road -	76, 77 76, 77, 78, 79
Cedar Lake-Nansemond River	26-060-A080.AR1 26-060-A082.AR1 26-060-A098.AR1 ROW	Major Upgrade Proposed New Road Proposed New Road -	99 99 100, 99 98, 99, 100, 101
Cellar Creek	12-101-AR 1 12-108-AR 1 ROW	Major Upgrade Proposed New Road -	61, 62 62 60, 61, 62
Chair Draft-Calfpasture River	07-001.AR1-AR 4 07-001-A009-AR 1 07-001-A055.AR2 07-001-AR 3 07-001-AR 6 ROW	Proposed New Road Major Upgrade Major Upgrade Major Upgrade Major Upgrade -	18 17, 18 17 18 18 16, 17, 18
Chapel Swamp-Somerton Creek	ROW	-	92, 93
Cohon Creek	ROW	-	94, 95, 96, 97, 98
Darden Pond-Mill Swamp	25-048-AR 1 25-055-A003.AR1 ROW	Major Upgrade Proposed New Road -	84 85 84, 85, 86
Deep Creek-Southern Branch Elizabeth River	27-002-AR 1 27-006-AR 1 27-006-AR 2 27-045.AR1-revised ROW	Major Upgrade Major Upgrade Major Upgrade Proposed New Road -	102 102 102 103, 104 101, 102, 103, 104, 105
Douglas Run-Meherrin River	15-011-A001-AR 1 15-011-AR 1 15-011-AR 3 15-014.AR1 ROW	Major Upgrade Proposed New Road Major Upgrade Major Upgrade -	75 75 75 75, 76 74, 75, 76
Dry Run	36-014.AR2 36-014.AR3 36-018.AR1 36-027.AR1 ROW	Major Upgrade Proposed New Road Major Upgrade Major Upgrade -	5, 6, 7 5, 6, 8 5 8 5, 6, 7, 8
Ducker Creek-Appomattox River	ROW	-	50, 51
Dutch Creek-Rockfish River	08-086-A045-AR 3 08-086-A050-AR 1 08-086-A054.AR1 08-086-A112.AR1 ROW	Proposed New Road Proposed New Road Proposed New Road Major Upgrade -	36 36 37 37 36, 37, 38
Edison Creek-Middle River	ROW	-	23, 24

HUC-12 Watershed	Workspace	Access Road Category	Figure 3.1 Water Quality Map Book, Pre-Development Conditions PAGE
Falling Run-Meherrin River	15-029-AR 2	Proposed New Road	76, 77
	ROW	-	76, 77
Folly Mills Creek-Christians Creek	07-001-A138.AR 1	Proposed New Road	25
	07-001-A148-AR 1	Proposed New Road	26
	ROW	-	25, 26, 27
Grease Creek-Slate River	09-051.AR1	Major Upgrade	44, 45
	ROW	-	44, 45, 46
Hamilton Branch	07-001-F002.AR1	Major Upgrade	13
	07-001-F002.AR2	Major Upgrade	13
	07-001-F009.AR1	Major Upgrade	14
	07-001-F012.AR1	Major Upgrade	14
	07-001-F029.AR1	Major Upgrade	14
	ROW	-	13, 14, 15
Holloway Draft-Calfpasture River	07-001-A017.AR1	Proposed New Road	16
	ROW	-	15, 16
Horsepen Creek-Slate River	09-048.AR1	Major Upgrade	44
	09-051.AR1	Major Upgrade	44, 45
	ROW	-	44, 45, 46
Inch Branch-Back Creek	ROW	-	29, 30, 31
Jacks Swamp	ROW	-	80
Jennings Branch	07-001.AR1-AR 9	Major Upgrade	19
	07-001-A011.AR-AR 1	Major Upgrade	19
	07-001-A011-AR 1	Major Upgrade	19
	07-001-A057.AR-AR 1	Proposed New Road	21
	07-001-AR 3	Major Upgrade	18
	07-001-AR 6	Major Upgrade	18
	07-001-AR 7	Proposed New Road	19
	ROW	-	18, 19, 20, 21, 22
Jim Dave Run-Back Creek	06-001-C004.AR3	Major Upgrade	2
	06-001-C026.AR2	Major Upgrade	3
	ROW	-	1, 2, 3
Jones Swamp	ROW	-	93, 94, 95
Kingsale Swamp	ROW	-	91, 92, 93
Lake Drummond-Dismal Swamp	ROW	-	101
Lake Prince	ROW	-	97, 98
Lewis Creek	ROW	-	24, 25
Lick Run-Stuart Run	36-001.AR1	Major Upgrade	10, 9
	36-001.AR2	Major Upgrade	10, 9
	36-016.AR2	Major Upgrade	10
	36-039.AR1	Major Upgrade	10
	36-059.AR1	Major Upgrade	10
	ROW	-	9, 10, 11, 12
Little Creek-Deep Creek	12-047-AR 1	Major Upgrade	58
	ROW	-	57, 58, 59, 60
Little Creek-Flat Creek	12-012-AR 1	Major Upgrade	56
	ROW	-	55, 56, 57
Little Willis River	09-129-AR 2	Major Upgrade	49
	10-007-AR 1	Major Upgrade	50
	ROW	-	48, 49, 50, 51
Lower Tarrara Creek	25-001-B047.AR 1	Major Upgrade	83
	25-048-AR 1	Major Upgrade	84
	ROW	-	82, 83, 84
Maclins Creek	ROW	-	74, 75
Meadow Creek-North River	09-040.AR-AR 1	Major Upgrade	43
	09-040.AR-AR 4	Major Upgrade	43
	09-040-A001-AR 1	Major Upgrade	43
	09-045.AR3	Proposed New Road	44
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Mill Creek	ROW	-	84, 85, 86
Mill Swamp-Fontaine Creek	15-055-AR 1	Major Upgrade	79
	15-067-AR 1	Major Upgrade	79, 80
	15-072-AR 1	Major Upgrade	80
	ROW	-	77, 78, 79, 80
Moffett Creek	07-001-A023.AR-AR 1	Proposed New Road	20, 21
	07-001-A029.AR-AR 1	Proposed New Road	21
	07-001-A030-AR 1	Proposed New Road	21
	07-001-A030-AR 2	Proposed New Road	21
	07-001-AR 7	Proposed New Road	19
	ROW	-	19, 20, 21
Ramseys Draft	ROW	-	16, 17
Red Oak Creek-Nottoway River	14-003-AR 1	Major Upgrade	67
	ROW	-	66, 67
Reedy Creek	14-096-AR 1	Major Upgrade	74
	14-103-AR 1	Major Upgrade	74
	ROW	-	71, 72, 73, 74
Ripley Creek-Walton Fork	09-005-AR 3	Major Upgrade	41
	ROW	-	41, 42, 43
Round Gut-Nottoway River	25-066-AR 1	Major Upgrade	86
	25-074-AR 3	Major Upgrade	87
	25-078-AR 1	Proposed New Road	87
	ROW	-	86, 87, 88, 89
Rucker Run	ROW	-	37, 38

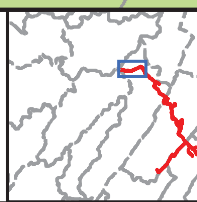
HUC-12 Watershed	Workspace	Access Road Category	Figure 3.1 Water Quality Map Book, Pre-Development Conditions PAGE
Sayers Creek	11-040.AR-AR 1 ROW	Major Upgrade -	53 53, 54, 55
Scotchtown Draft-Cowpasture River	36-027.AR1 ROW	Major Upgrade -	8 8, 9
Slagles Lake-Three Creek	14-103-AR 1 14-106-AR 1 ROW	Major Upgrade Major Upgrade -	74 74 71, 72, 73, 74
South Fork Rockfish River	08-001-B013-AR 1 08-001-B051-AR 1 ROW	Proposed New Road Proposed New Road -	32 33 30, 31, 32, 33
Speights Run-Lake Kilby	ROW	-	95
Sturgeon Creek	ROW	-	69, 70, 71, 72
Sycamore Creek-James River	08-214-B004-AR 1 08-214-B007.AR1 09-001-A001.AR2 09-001-A011-AR 1 09-005-AR 3 ROW	Major Upgrade Proposed New Road Major Upgrade Major Upgrade Major Upgrade -	40 40 40 41 41 39, 40, 41
Tommeheton Creek	ROW	-	62, 63, 66, 67
Union Camp Holding Pond-Blackwater River	26-001.AR1 ROW	Major Upgrade -	90 89, 90, 91, 92
Waqua Creek	14-020-AR 1 ROW	Major Upgrade -	68 67, 68, 69, 70
Warm Springs Run-Jackson River	36-014.AR2	Major Upgrade	5, 6, 7
West Creek	12-028-AR 1 ROW	Major Upgrade -	57 56, 57, 58
Western Branch Reservoir	ROW	-	98
Whispering Creek-Willis River	09-113-AR 1 ROW	Major Upgrade -	48 48, 49



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- Milepost
 - PCSM Analysis Workspaces
 - HUC-12 Watershed
 - Ⓐ Hydrologic Soil Group
 - State Boundary
- | Land Cover | |
|--|-----------------------|
| | Agriculture |
| | Developed, Open Space |
| | Forest |

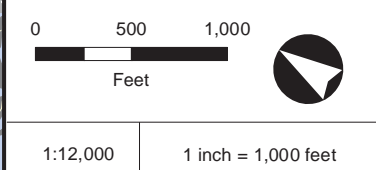


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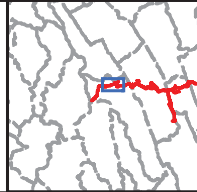




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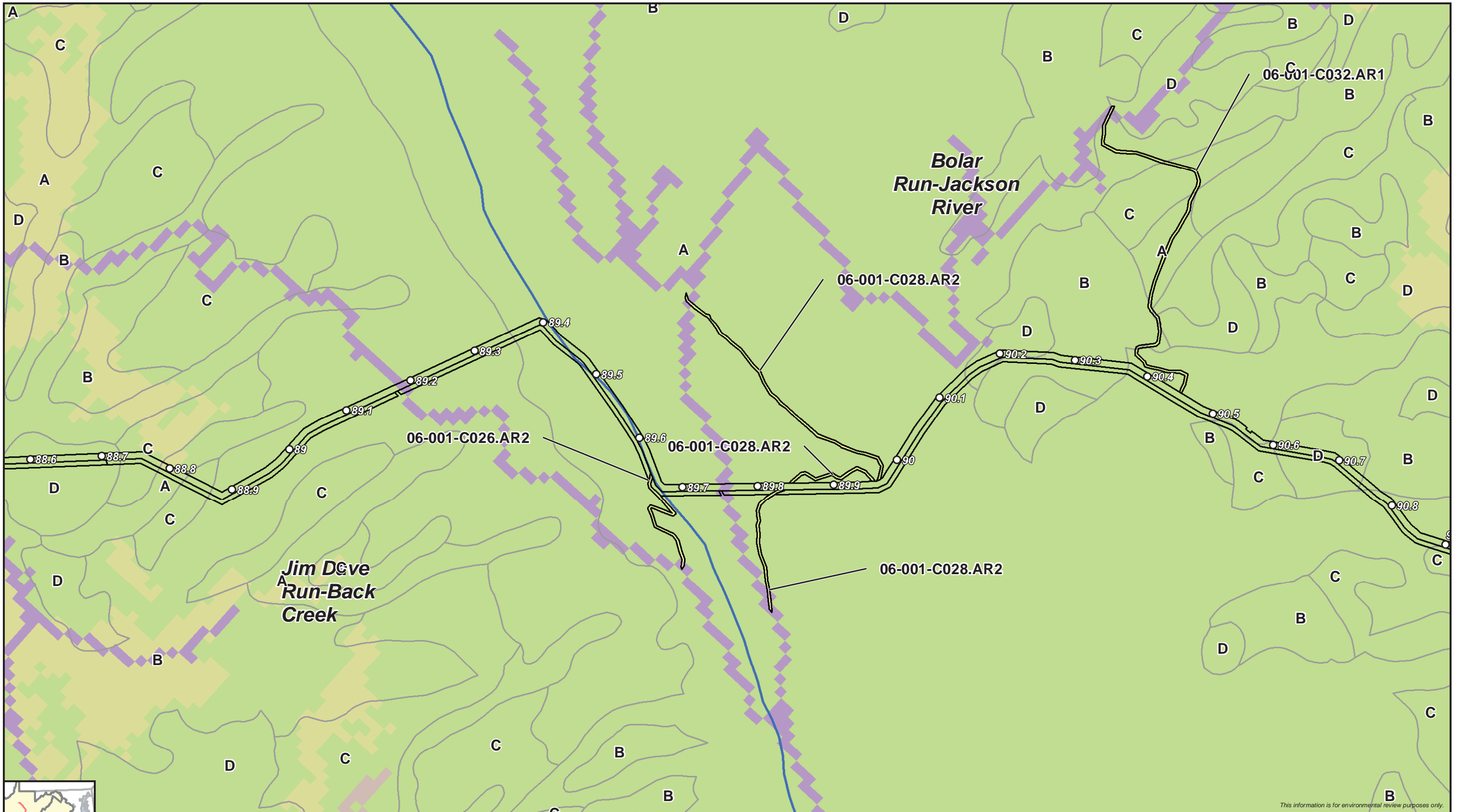


○ Milepost	Land Cover	Forest	Wetlands
□ PCSM Analysis Workspaces	Agriculture	Grassland	
□ HUC-12 Watershed	Developed, Low Intensity	Gravel	
□ Hydrologic Soil Group	Developed, Medium Intensity	Open Water	
	Developed, Open Space	Shrub	

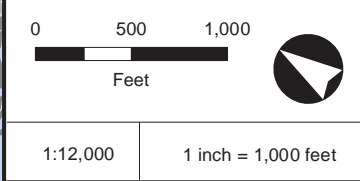


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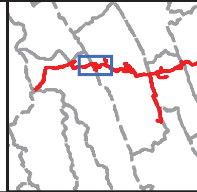




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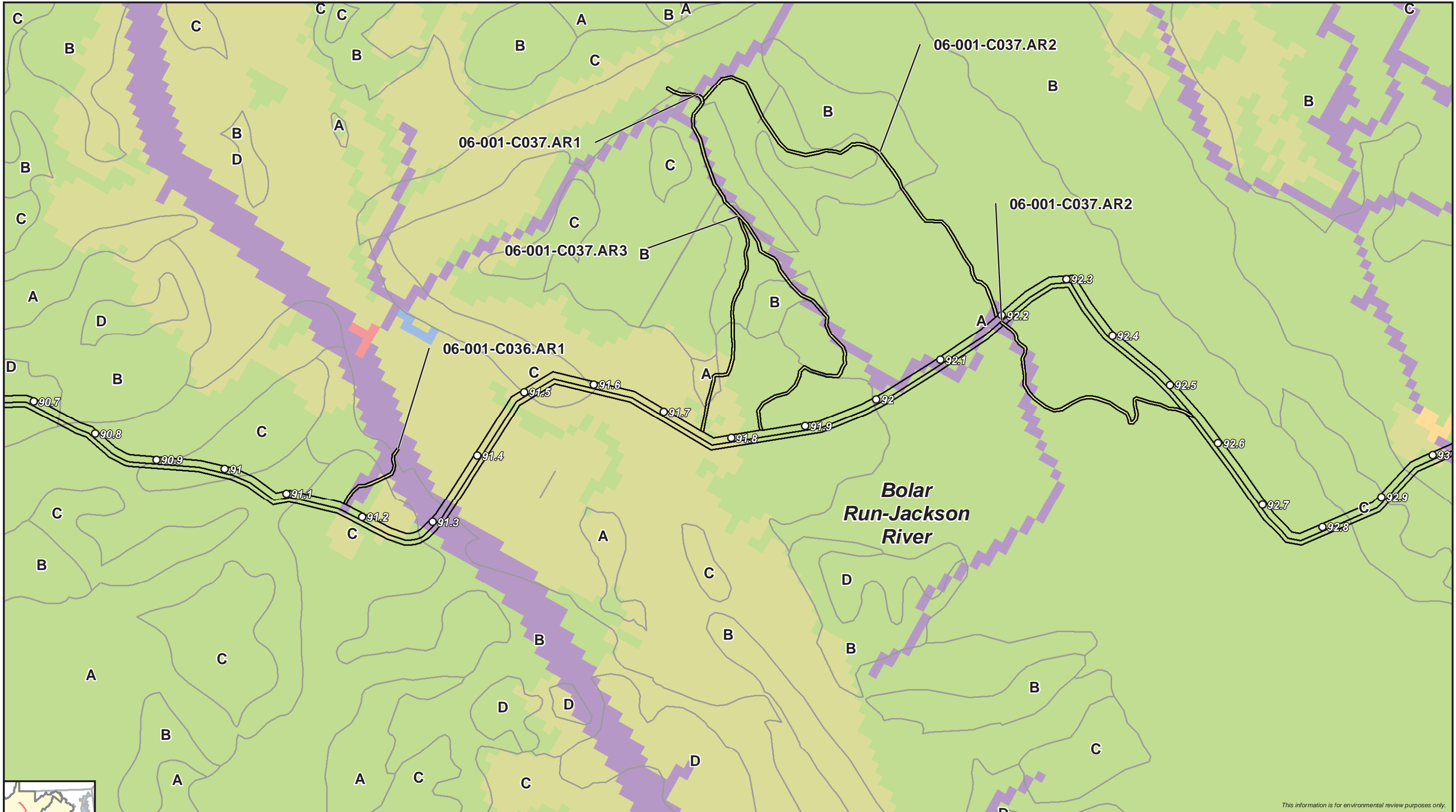
- Milepost
 - PCSM Analysis Workspaces
 - HUC-12 Watershed
 - Hydrologic Soil Group
- Land Cover**
- Agriculture
 - Barren Land
 - Developed, Open Space
 - Forest
 - Gravel



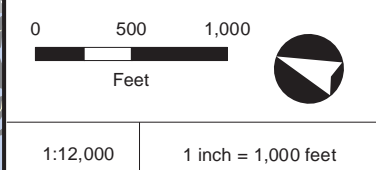
Atlantic Coast Pipeline

Virginia Water Quality
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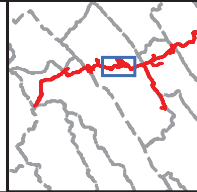




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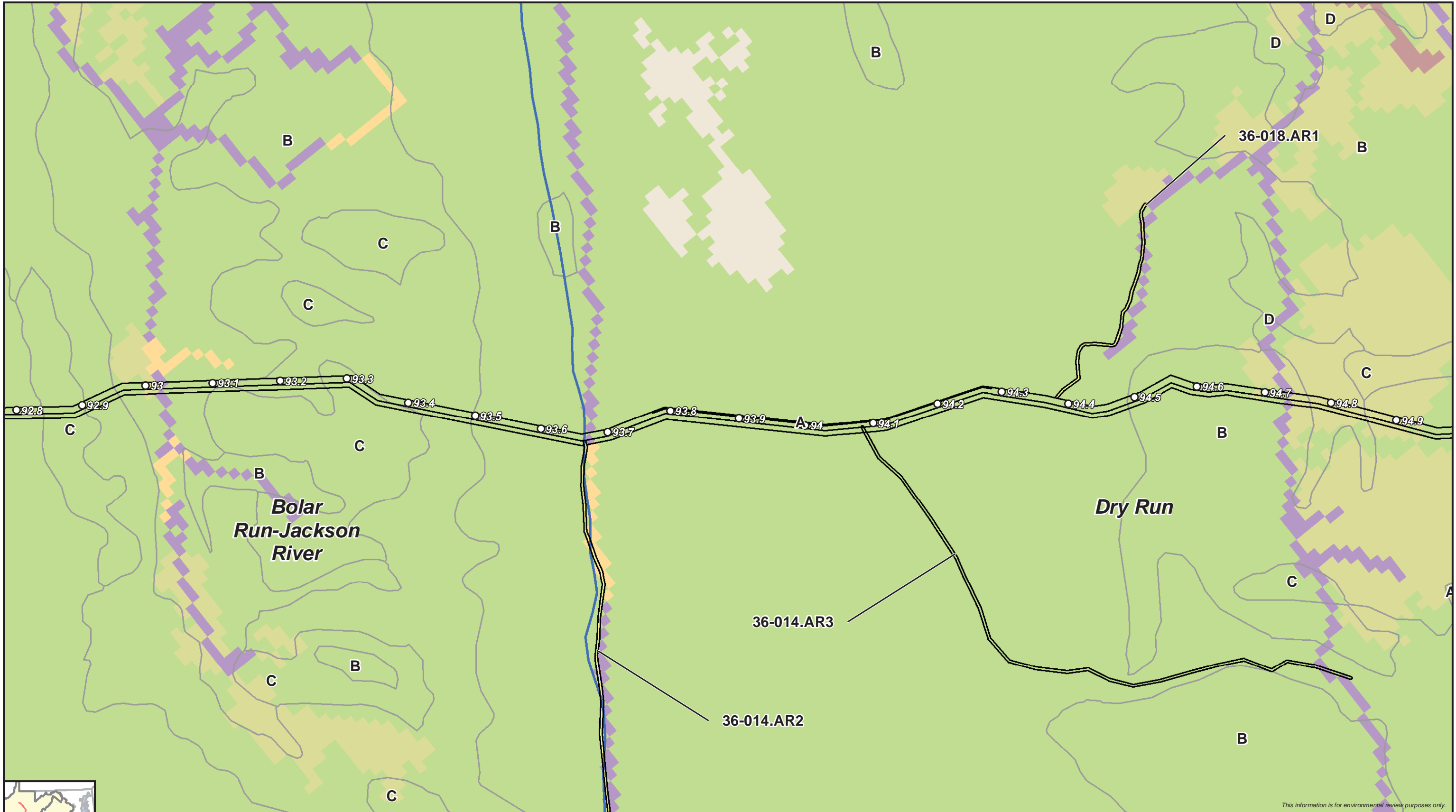


Milepost	Land Cover	Forest
PCSM Analysis Workspaces	Agriculture	Gravel
HUC-12 Watershed	Developed, High Intensity	Open Water
Hydrologic Soil Group	Developed, Medium Intensity	
	Developed, Open Space	

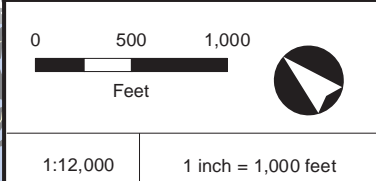


Virginia Water Quality
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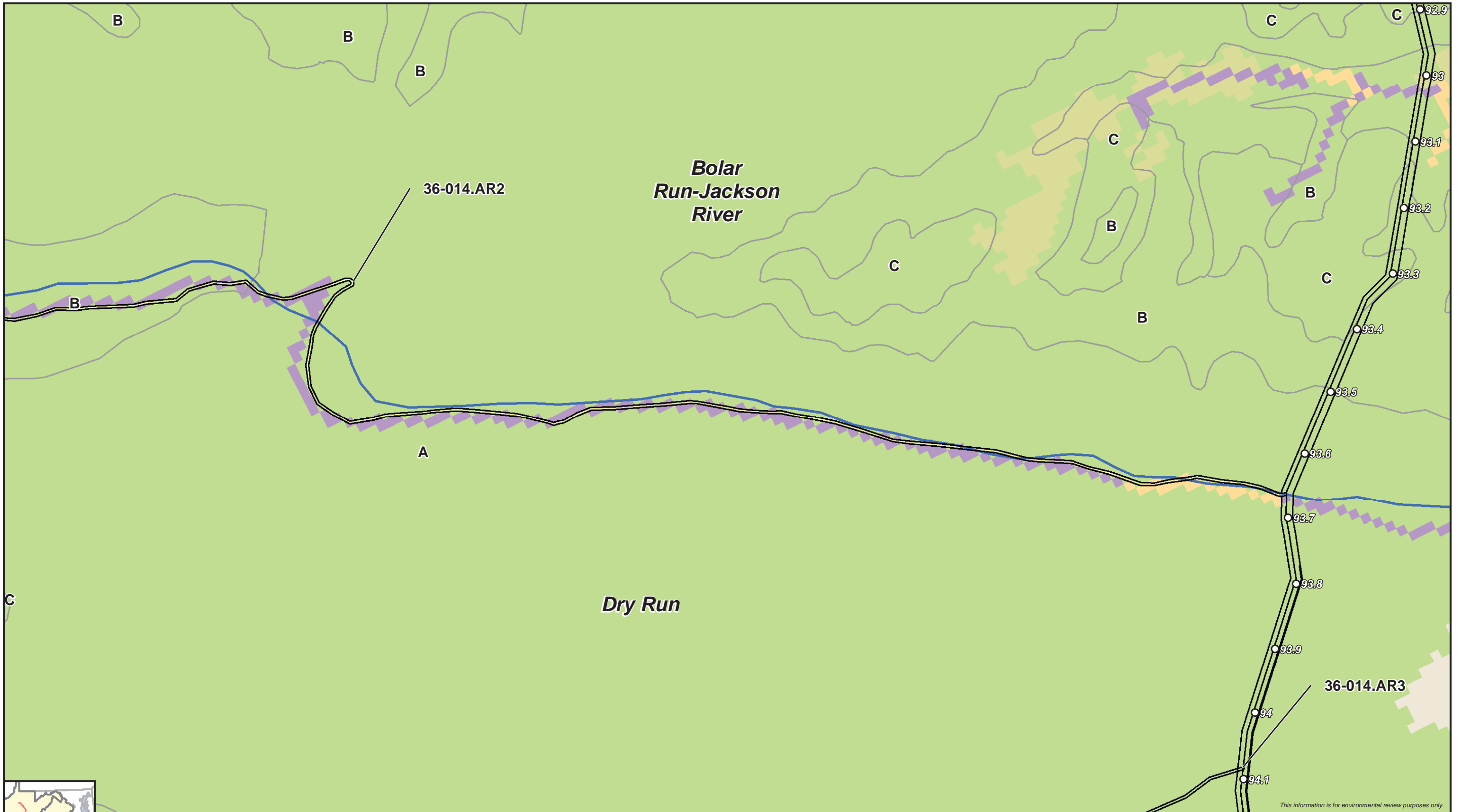


Legend	
○ Milepost	Land Cover
□ PCSM Analysis Workspaces	■ Agriculture
□ HUC-12 Watershed	■ Developed, Medium Intensity
□ Hydrologic Soil Group	■ Developed, Open Space
	■ Forest
	■ Gravel
	■ Shrub
	■ Wetlands

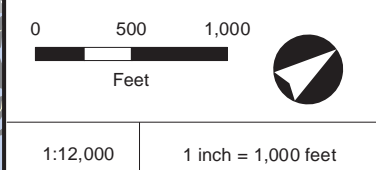


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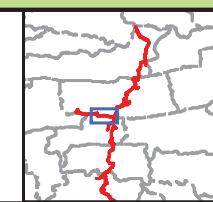




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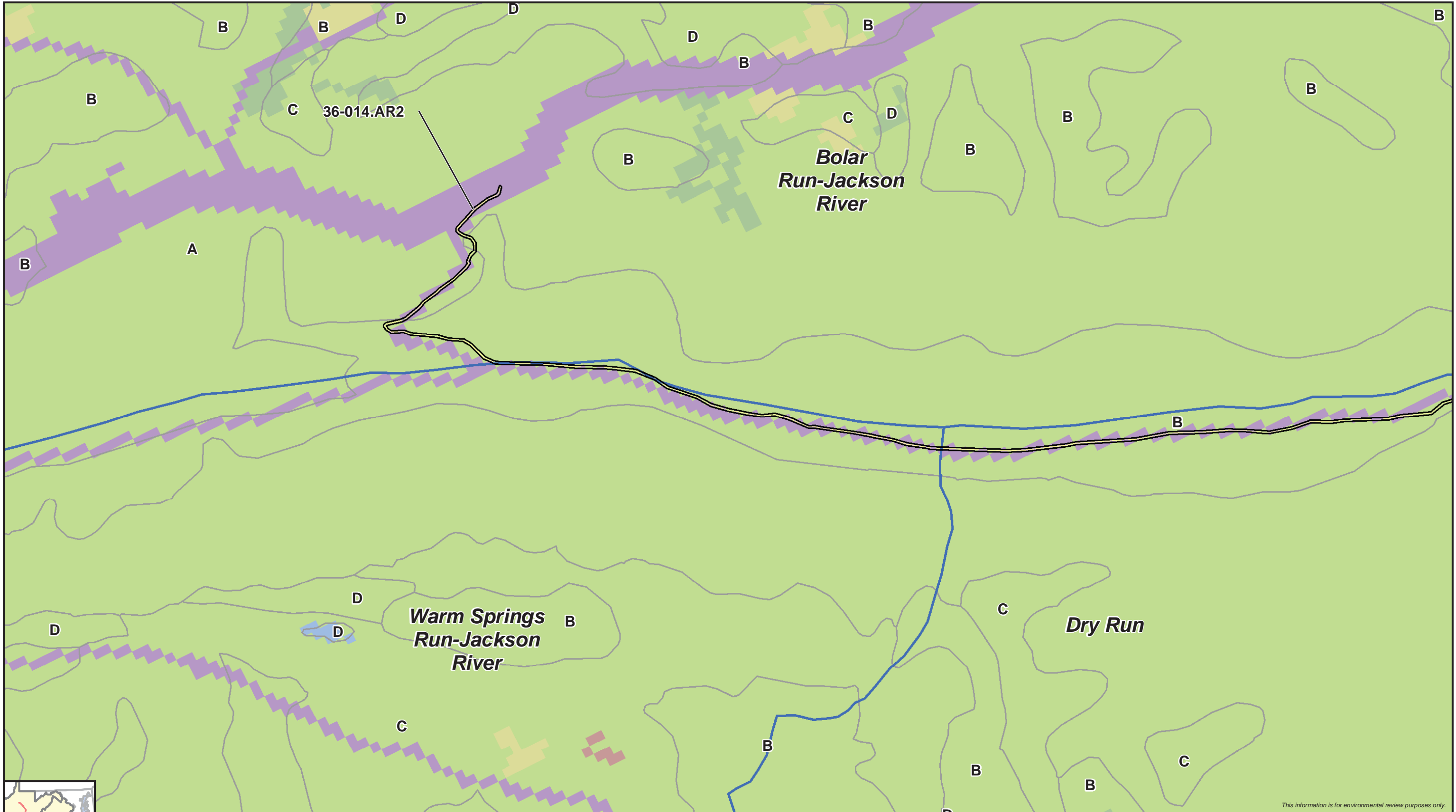


○ Milepost	Land Cover	■ Gravel
□ PCSI Analysis Workspaces	■ Agriculture	■ Shrub
■ HUC-12 Watershed	■ Developed, Medium Intensity	
■ Hydrologic Soil Group	■ Developed, Open Space	
	■ Forest	

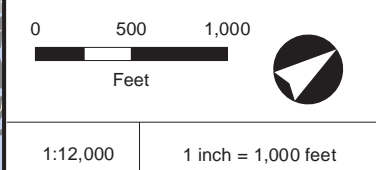


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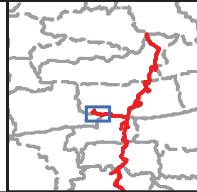




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○ Milepost	Land Cover	Gravel
□ PCSM Analysis Workspaces	Agriculture	Open Water
□ HUC-12 Watershed	Developed, Open Space	Wetlands
□ Hydrologic Soil Group	Forest	
	Grassland	

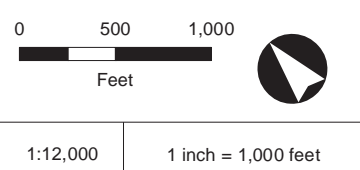


Virginia
Water Quality
 Pre-Development Conditions

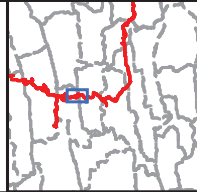




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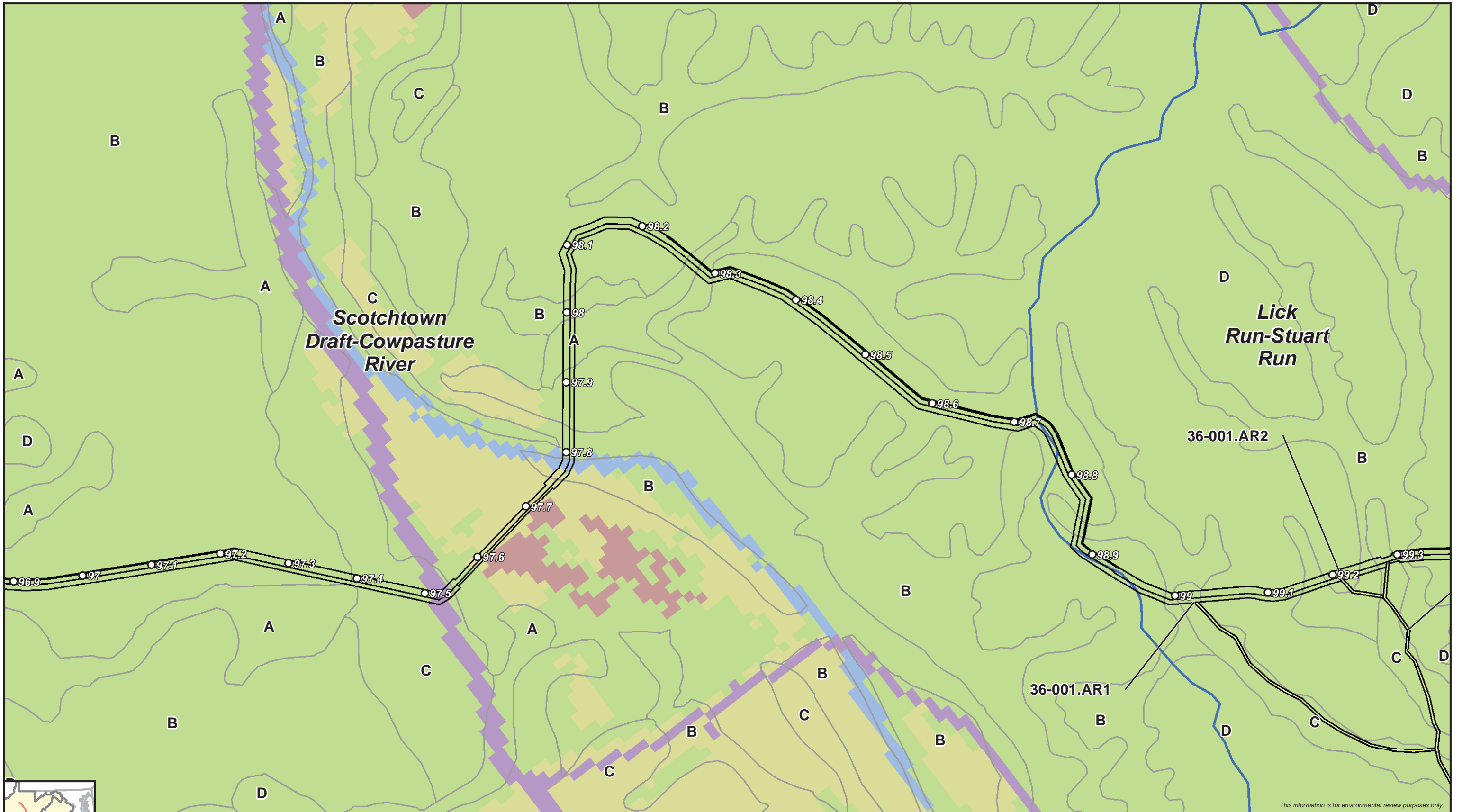


○ Milepost	Land Cover	Gravel
□ PCSM Analysis Workspaces	Agriculture	Open Water
□ HUC-12 Watershed	Developed, Open Space	Shrub
□ Hydrologic Soil Group	Forest	Wetlands
	Grassland	

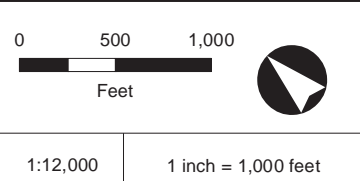
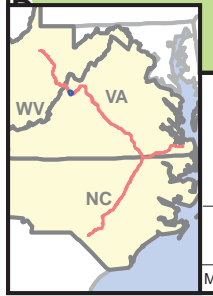


Virginia Water Quality
Pre-Development Conditions

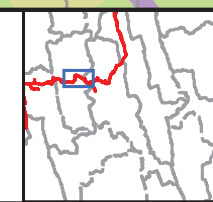




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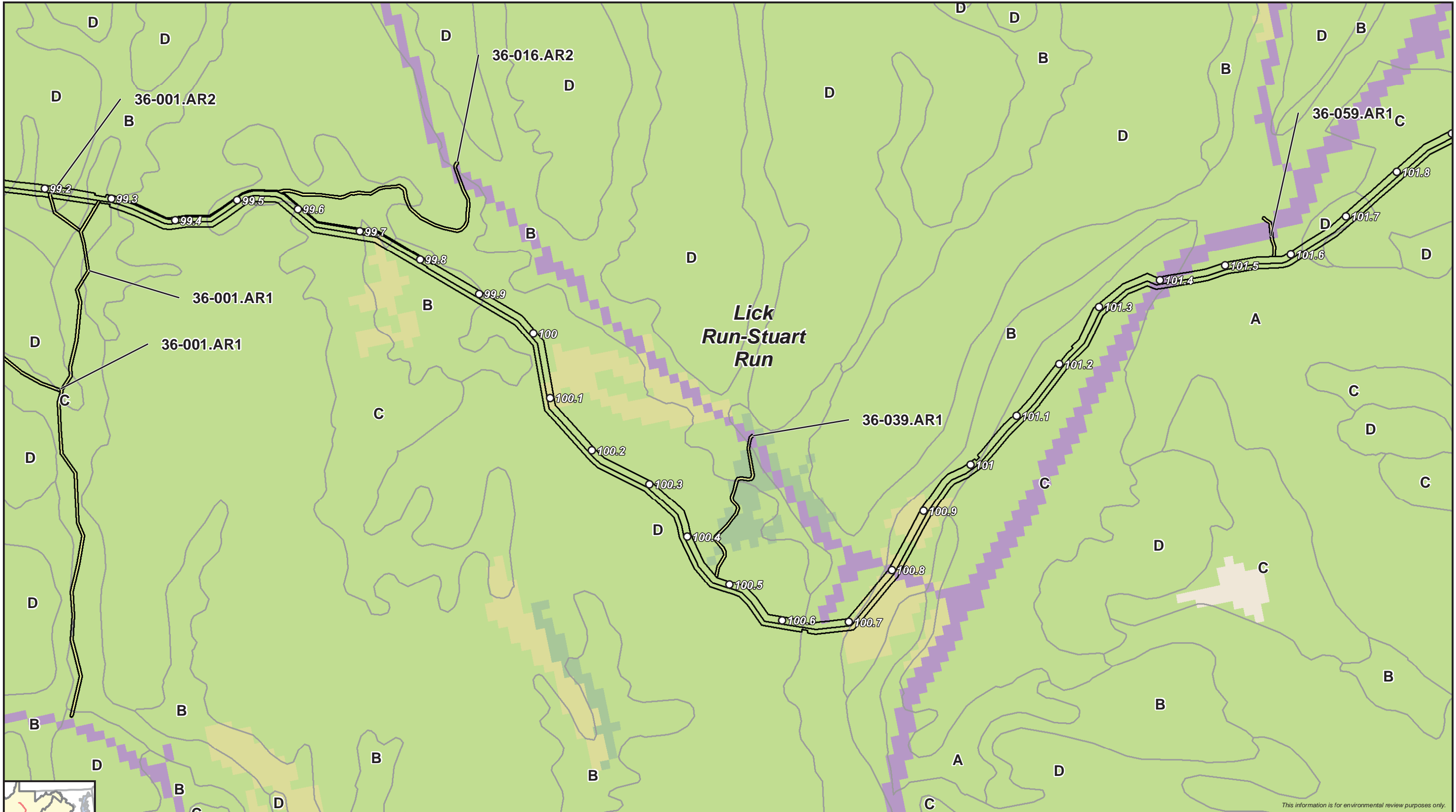


Milepost	Agriculture	Open Water
PCSI Analysis Workspaces	Developed, Open Space	Wetlands
HUC-12 Watershed	Forest	
Hydrologic Soil Group	Gravel	

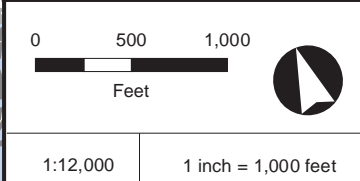
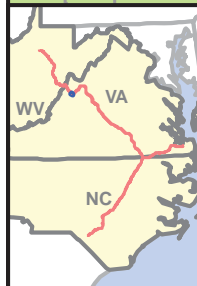


Virginia Water Quality
Pre-Development Conditions



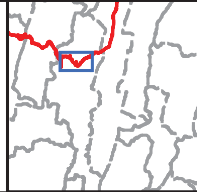


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- Milepost
- PCSM Analysis Workspaces
- HUC-12 Watershed
- Hydrologic Soil Group

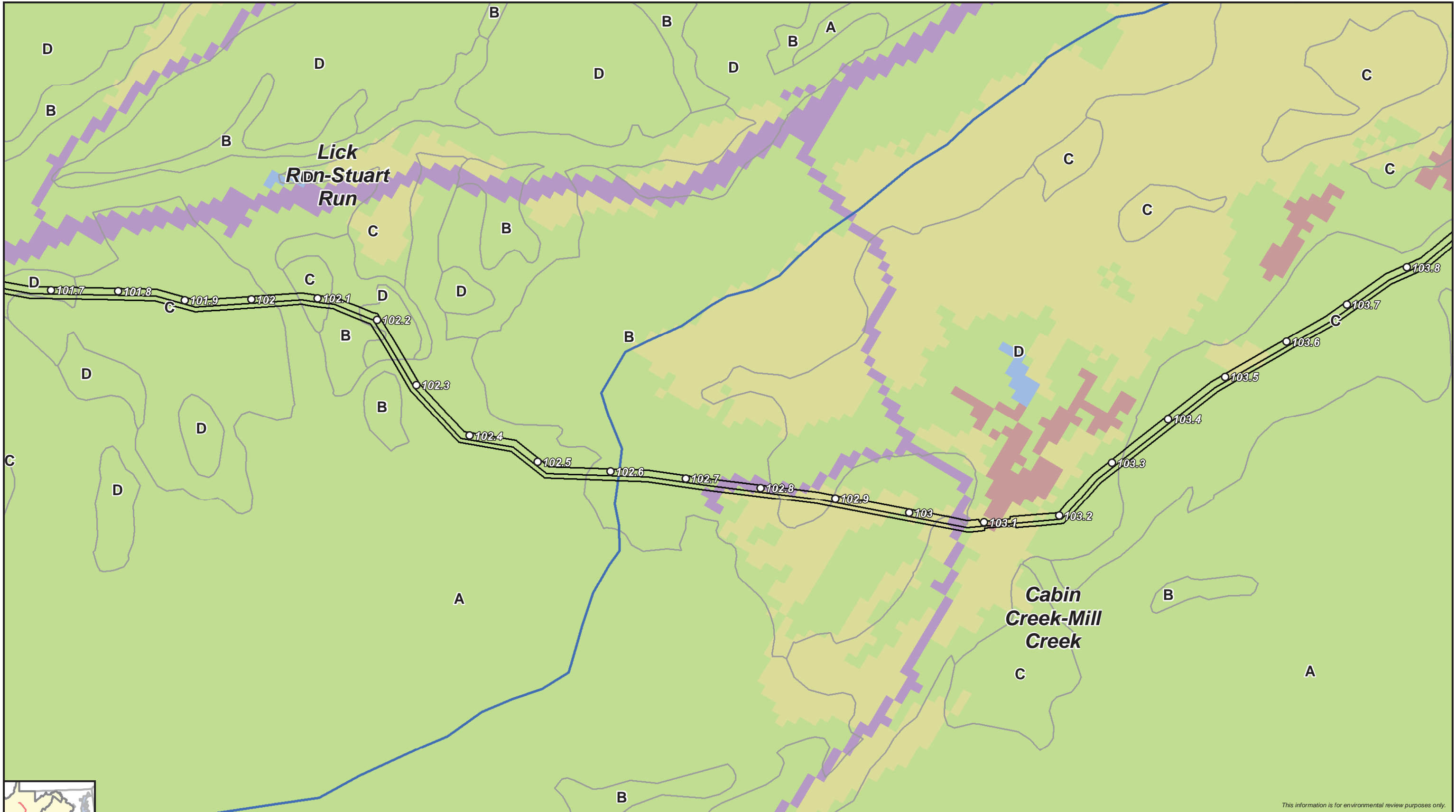
- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest
 - Grassland
 - Gravel
 - Shrub



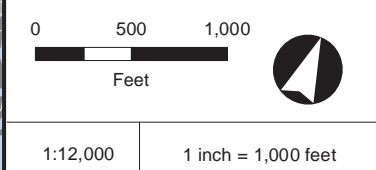
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Virginia Water Quality
Pre-Development Conditions

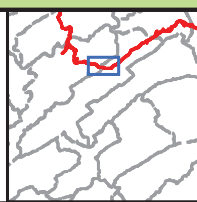




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○ Milepost	Land Cover	■ Wetlands
□ PCSM Analysis Workspaces	■ Agriculture	
■ HUC-12 Watershed	■ Developed, Open Space	
■ Hydrologic Soil Group	■ Forest	
	■ Open Water	

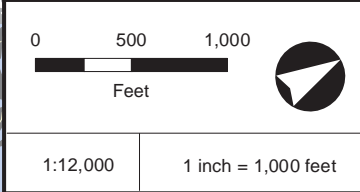


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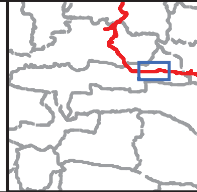




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○ Milepost	Land Cover	■ Open Water
□ PCSI Analysis Workspaces	■ Agriculture	■ Wetlands
■ HUC-12 Watershed	■ Developed, Open Space	
■ Hydrologic Soil Group	■ Forest	
	■ Grassland	

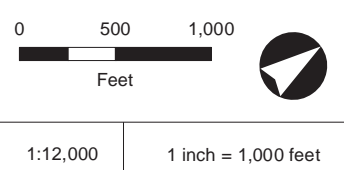


Virginia Water Quality
Pre-Development Conditions



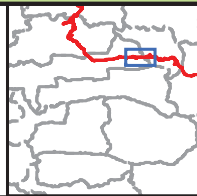


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- Milepost
- PCSM Analysis Workspaces
- HUC-12 Watershed
- Hydrologic Soil Group

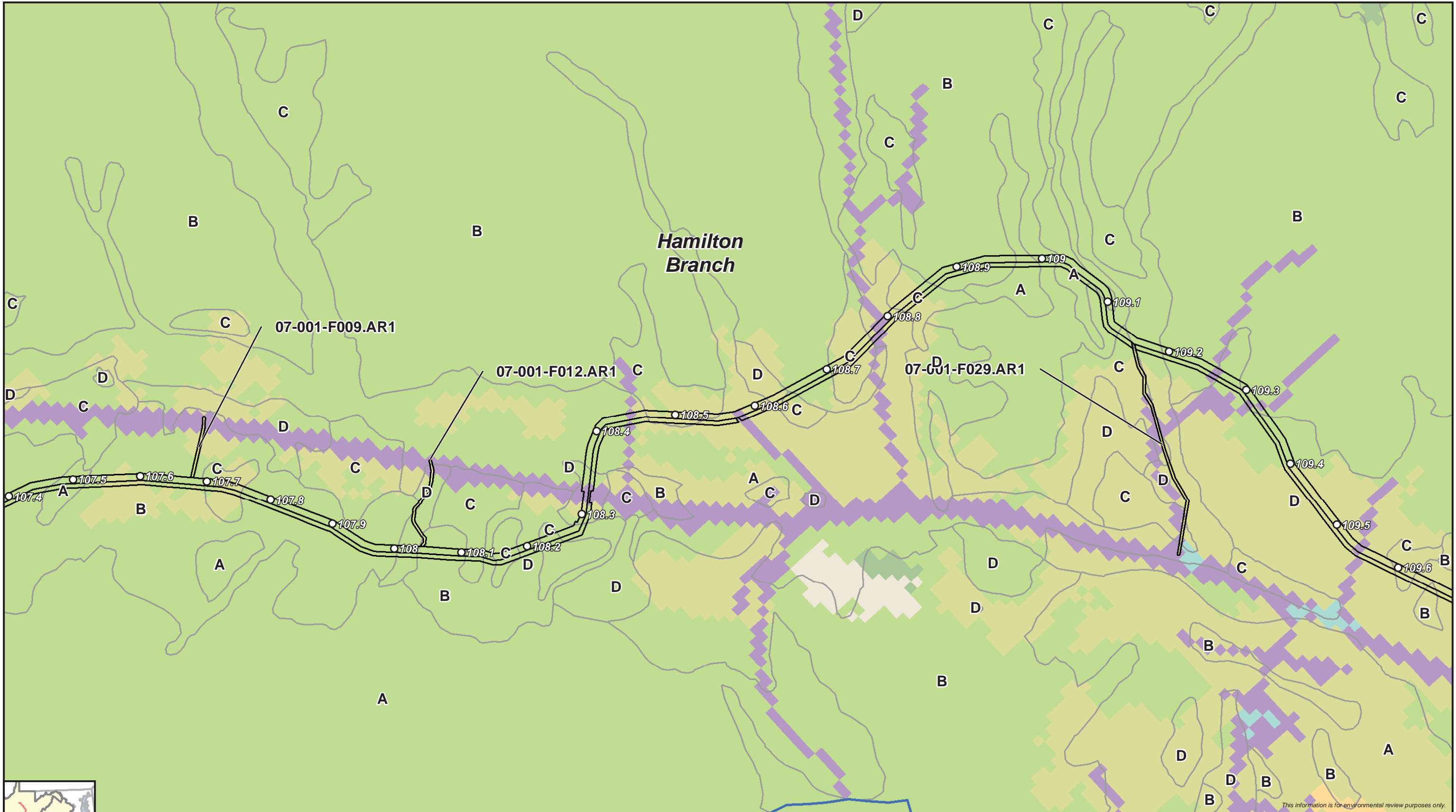
- Land Cover**
- Agriculture
 - Developed, Open Space
 - Forest
 - Gravel



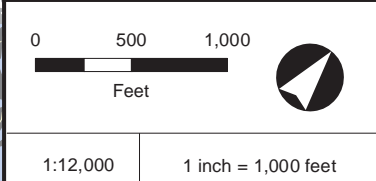
Virginia
Water Quality
 Pre-Development Conditions



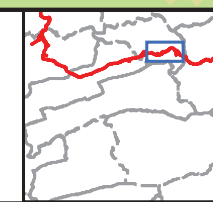
DRAWN BY: TG



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○ Milepost	Land Cover	Forest
□ PCSM Analysis Workspaces	Agriculture	Grassland
□ HUC-12 Watershed	Developed, Low Intensity	Gravel
□ Hydrologic Soil Group	Developed, Medium Intensity	Shrub
	Developed, Open Space	

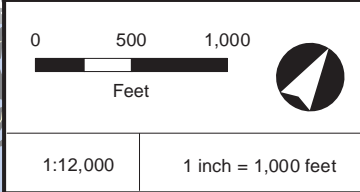
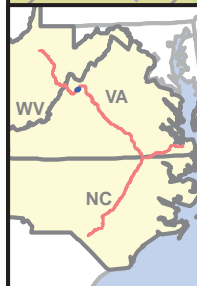


Virginia Water Quality
Pre-Development Conditions



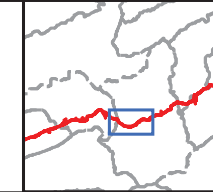


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- Milepost
- PCSM Analysis Workspaces
- HUC-12 Watershed
- Hydrologic Soil Group

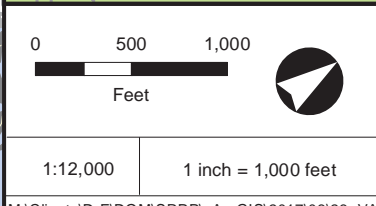
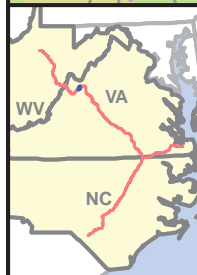
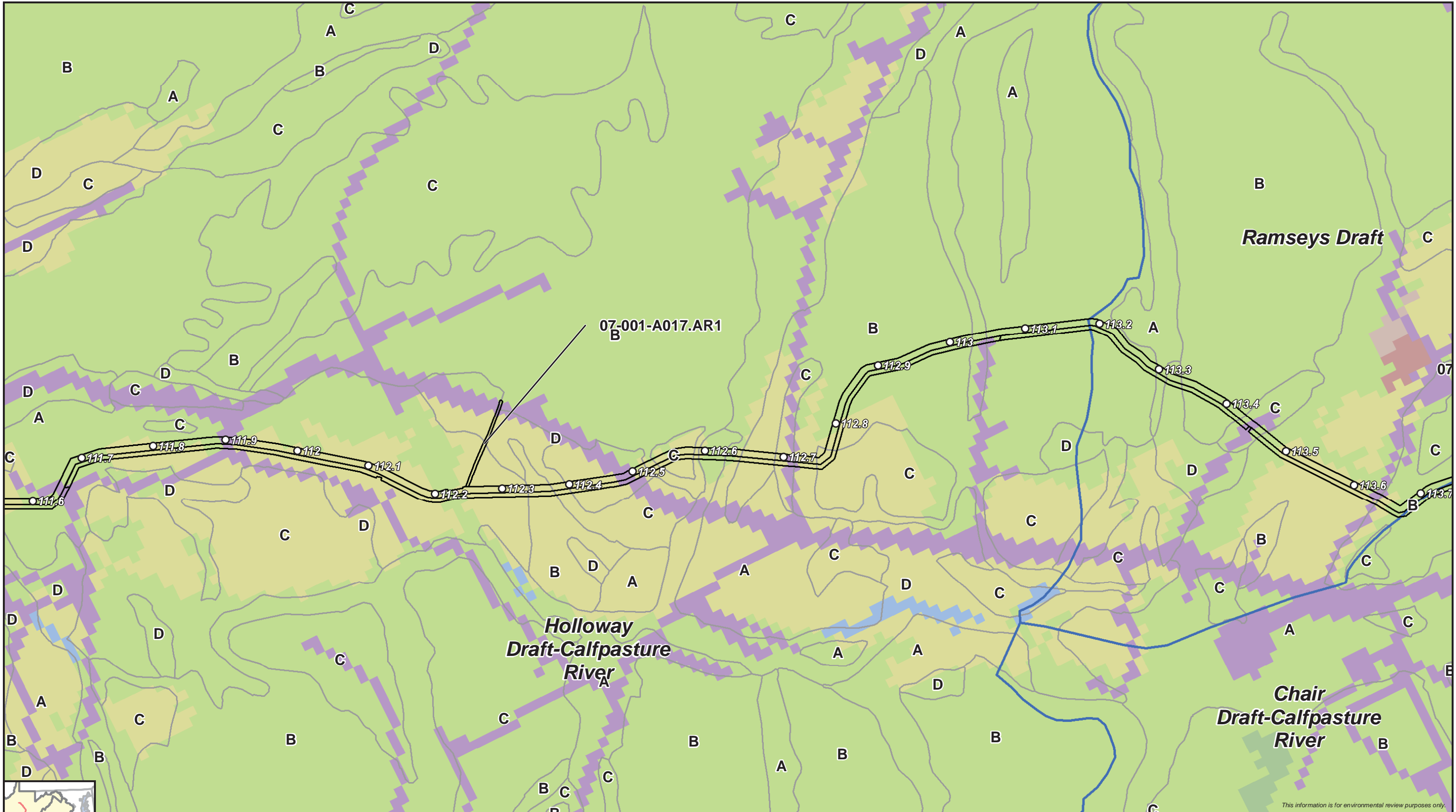
- Land Cover**
- Agriculture
 - Barren Land
 - Developed, Low Intensity
 - Developed, Medium Intensity
 - Developed, Open Space
 - Forest
 - Open Water
 - Shrub
 - Wetlands



Atlantic Coast Pipeline

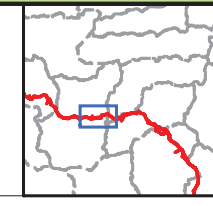
Virginia Water Quality Pre-Development Conditions





- Milepost
- PCSI Analysis Workspaces
- HUC-12 Watershed
- Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Barren Land
 - Developed, Open Space
 - Forest
 - Grassland
 - Open Water
 - Wetlands



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Virginia Water Quality Pre-Development Conditions

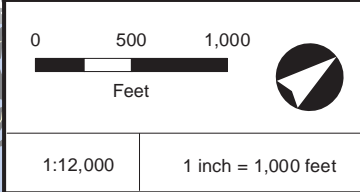
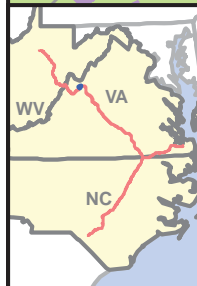
ERM

DRAWN BY: TG

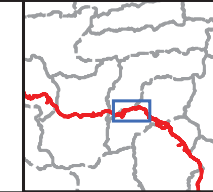
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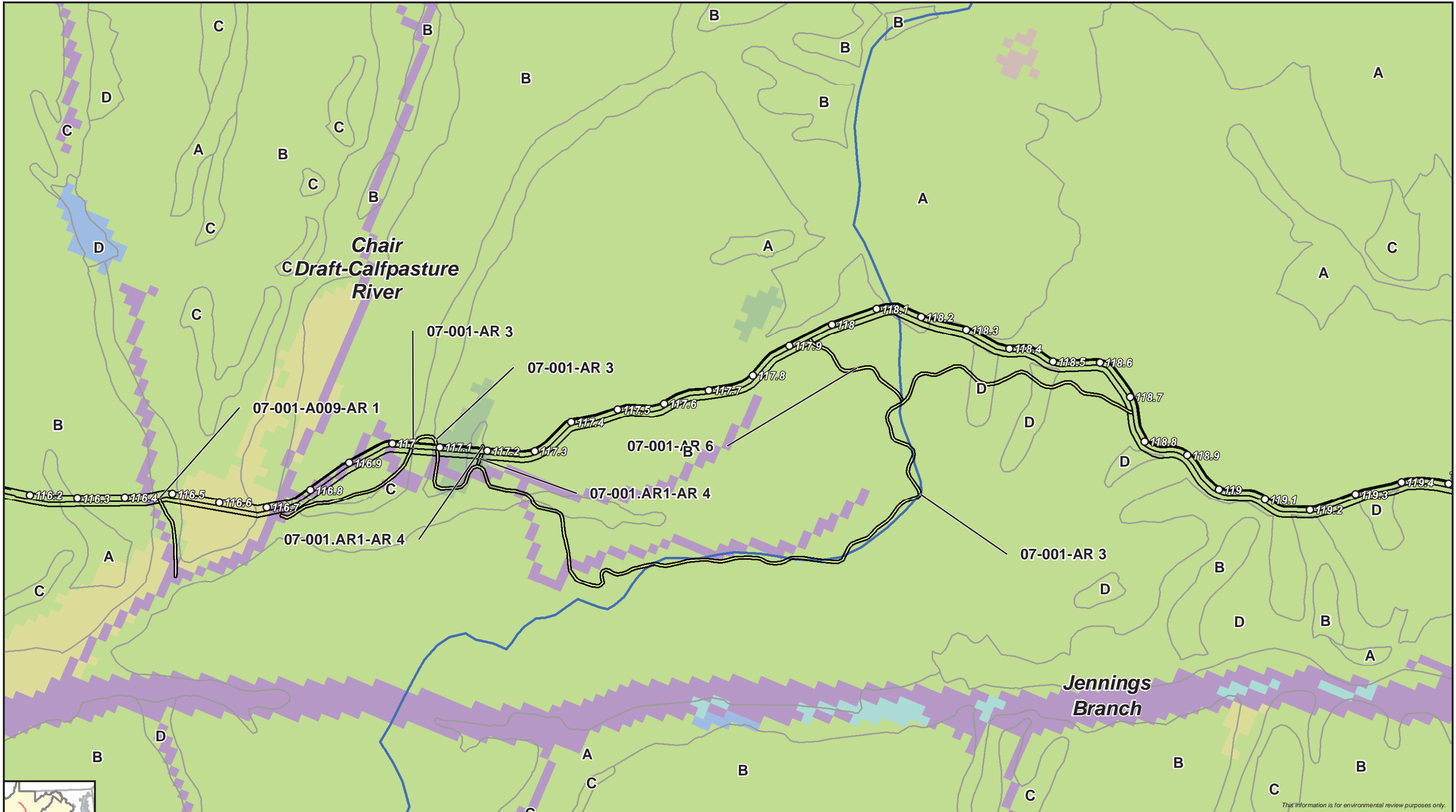


○ Milepost	Land Cover	Forest
□ PCSM Analysis Workspaces	■ Agriculture	■ Grassland
■ HUC-12 Watershed	■ Barren Land	■ Gravel
■ Hydrologic Soil Group	■ Developed, Low Intensity	■ Open Water
	■ Developed, Open Space	■ Wetlands

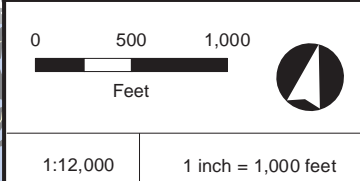


Virginia
Water Quality
Pre-Development Conditions

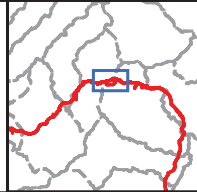




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○ Milepost	Land Cover	Forest
□ PCSM Analysis Workspaces	■ Agriculture	■ Grassland
■ HUC-12 Watershed	■ Barren Land	■ Gravel
■ Hydrologic Soil Group	■ Developed, Low Intensity	■ Open Water
	■ Developed, Open Space	

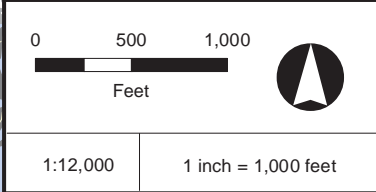
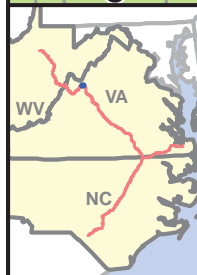


Virginia
Water Quality
Pre-Development Conditions



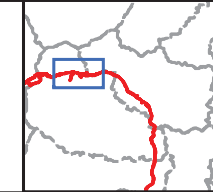


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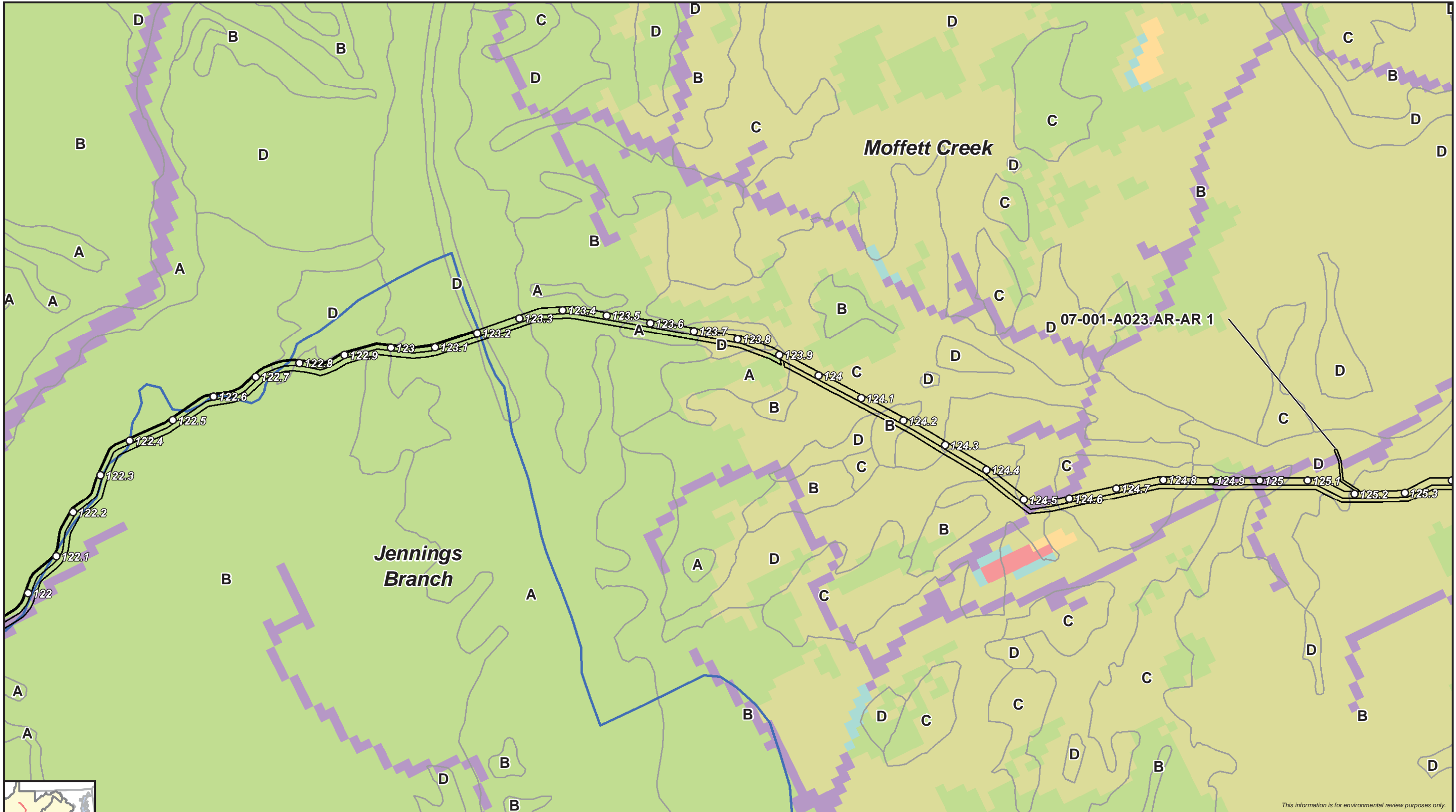
- Milepost
- PCSI Analysis Workspaces
- HUC-12 Watershed
- Hydrologic Soil Group

- Land Cover**
- Agriculture
 - Barren Land
 - Developed, Low Intensity
 - Developed, Medium Intensity
 - Developed, Open Space
 - Forest
 - Gravel
 - Open Water

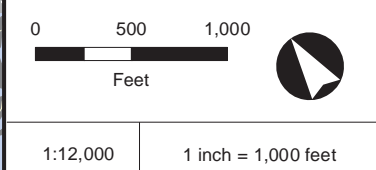


Virginia Water Quality
Pre-Development Conditions

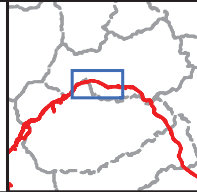




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- Milepost
- PCSM Analysis Workspaces
- HUC-12 Watershed
- Hydrologic Soil Group
- Land Cover**
- Agriculture
- Developed, High Intensity
- Developed, Low Intensity
- Developed, Medium Intensity
- Developed, Open Space
- Forest



Atlantic Coast Pipeline

Virginia Water Quality Pre-Development Conditions

