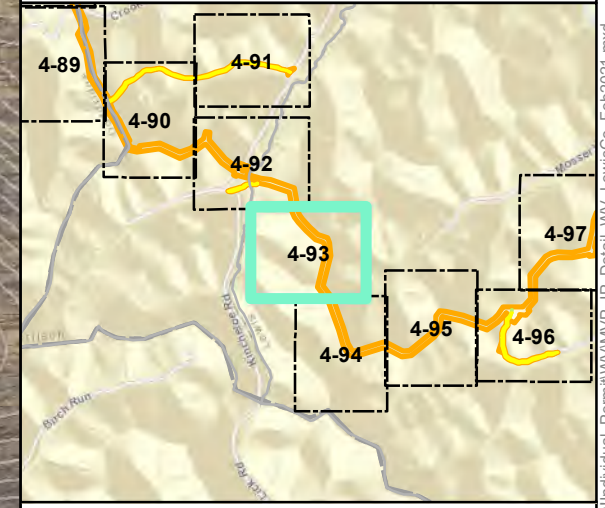
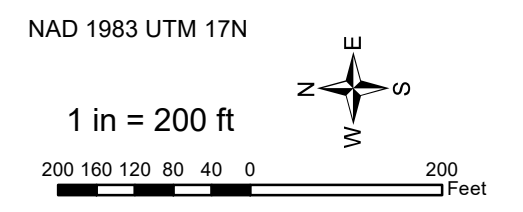




- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-93
Lewis County, West Virginia

February 2021

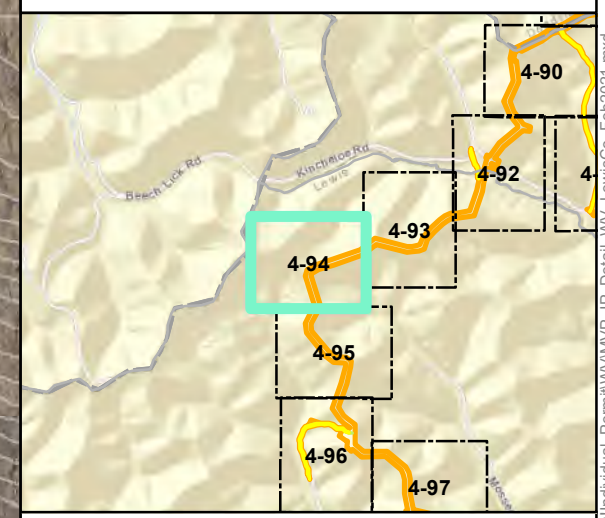
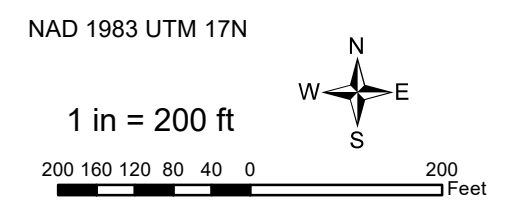
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\IMVP\Mapdocs\Wetlands\Individual_Permit\WV\Map\IP_Detail\WV_LewisCo_Feb2021.mxd

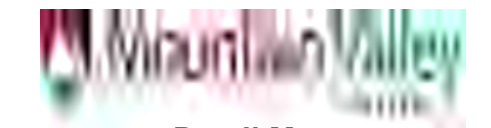


- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-94
Lewis County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

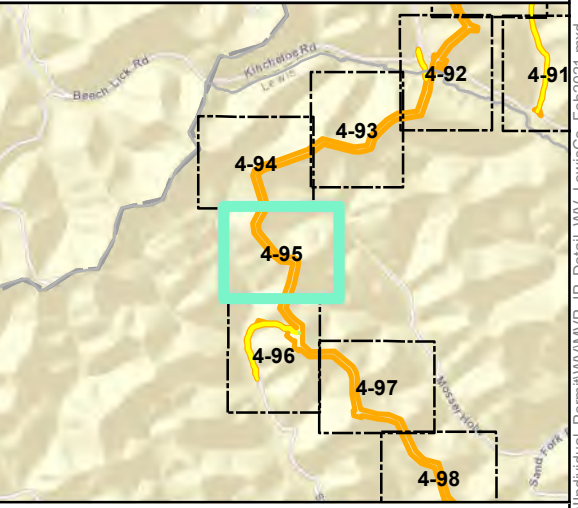
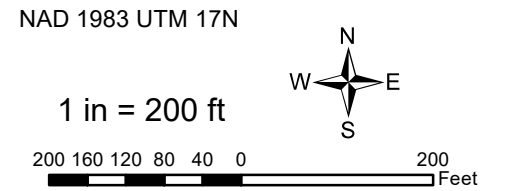
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Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

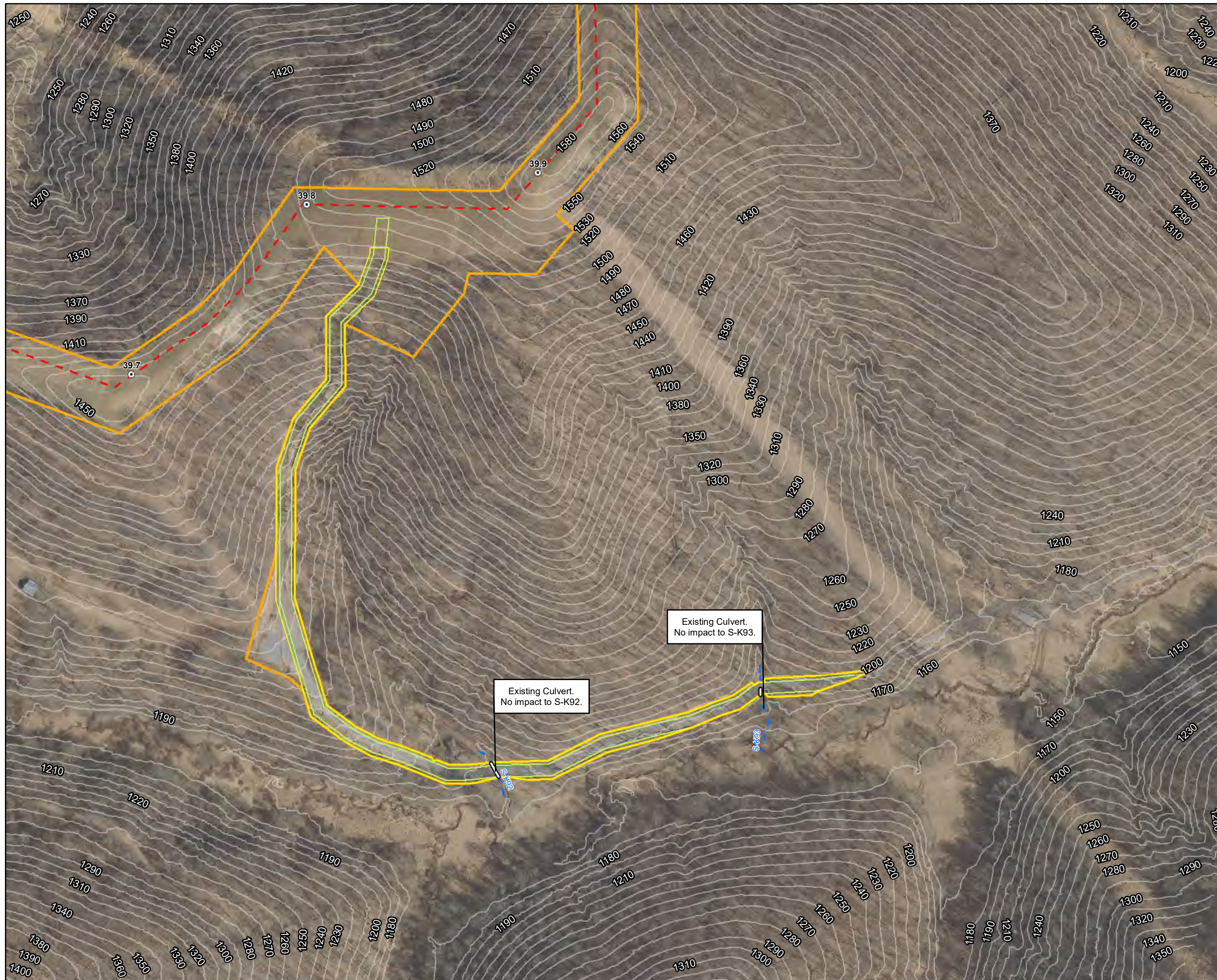


**Detail Map
Individual Permit Application**

Figure 4-95
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.



Legend

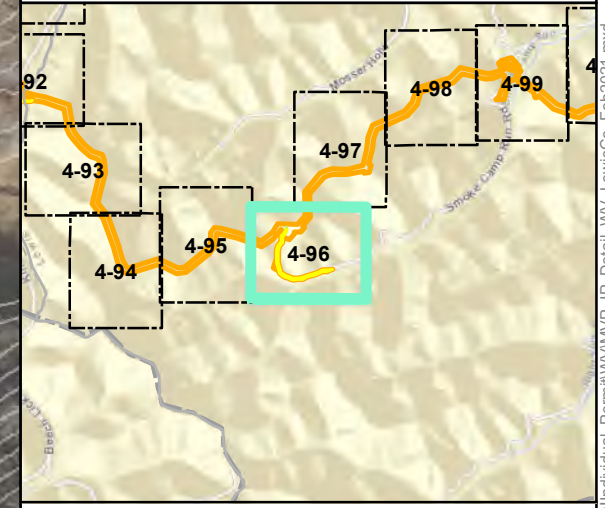
○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
▭ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-96
Lewis County, West Virginia

February 2021

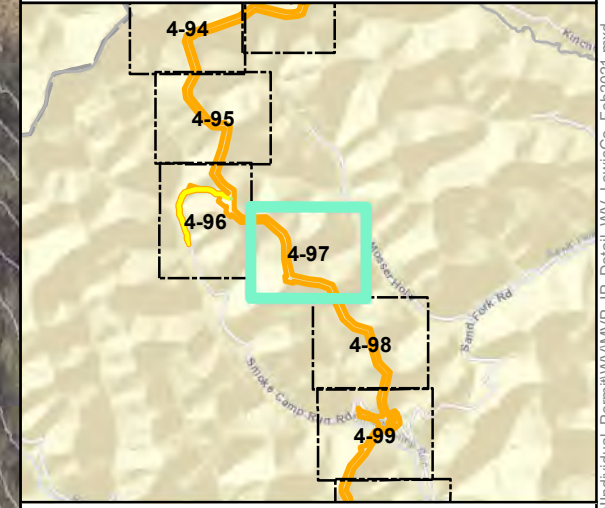
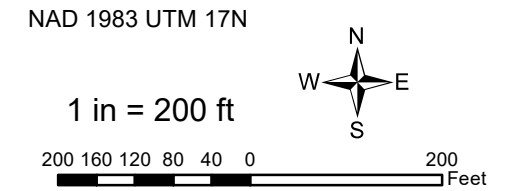
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-97
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

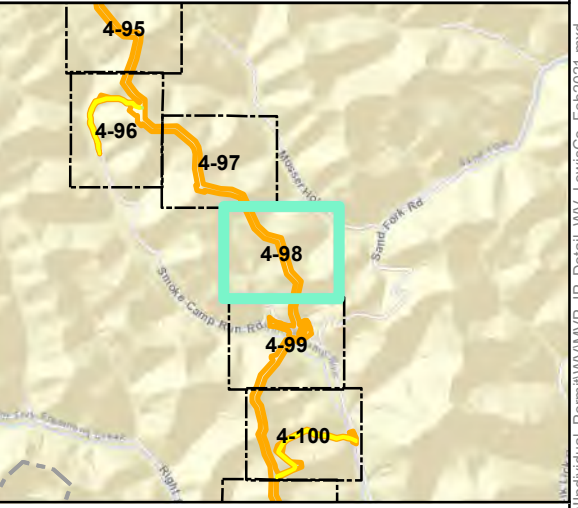
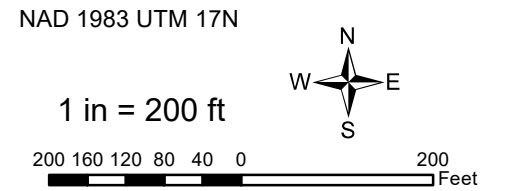
Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



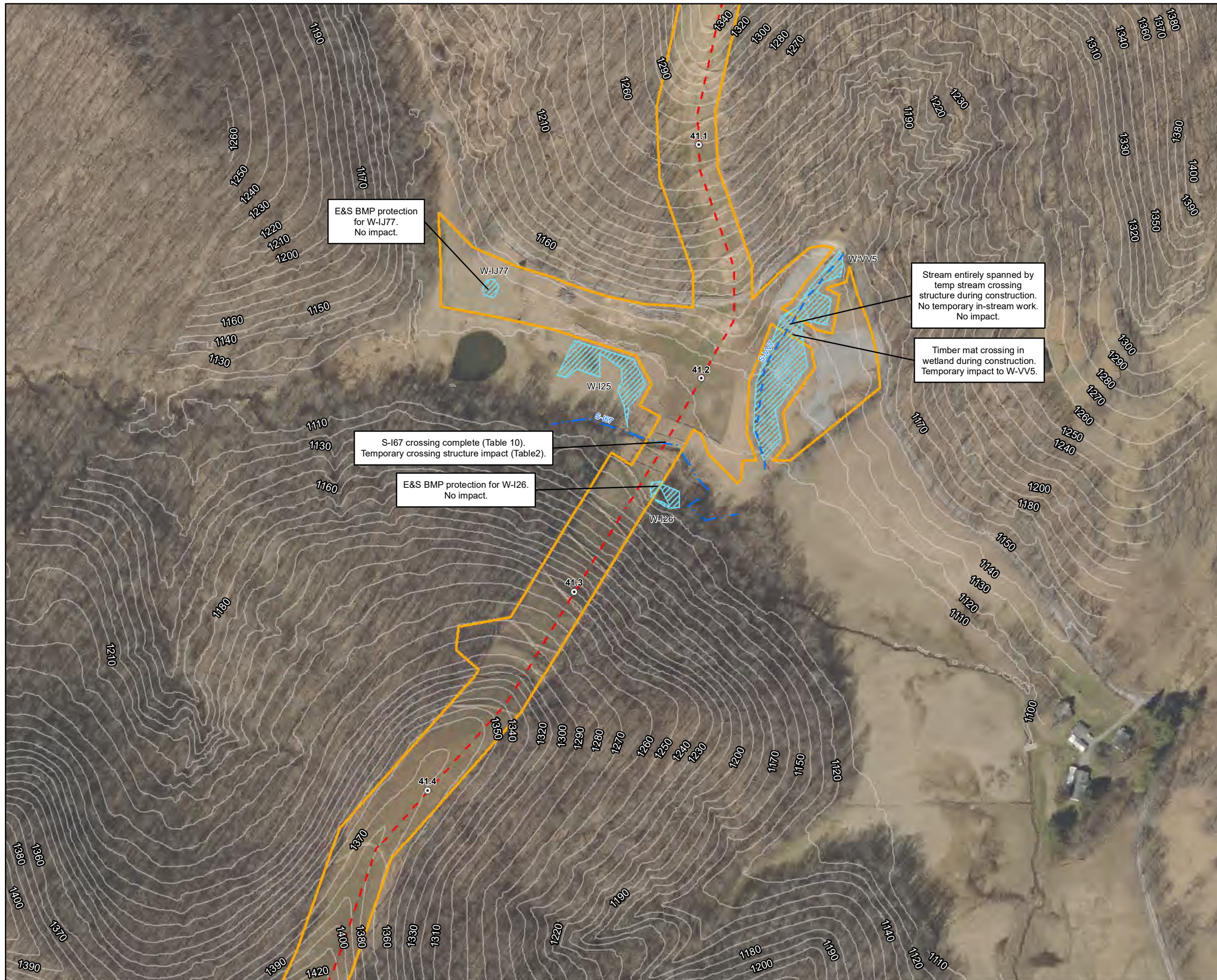
**Detail Map
Individual Permit Application**

Figure 4-98
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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E&S BMP protection for W-IJ77. No impact.

Stream entirely spanned by temp stream crossing structure during construction. No temporary in-stream work. No impact.

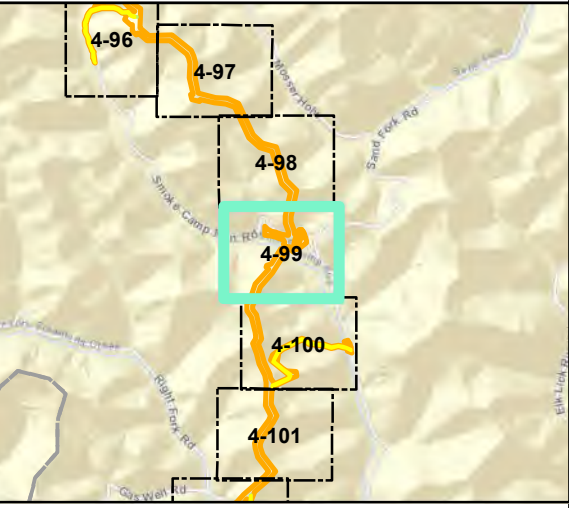
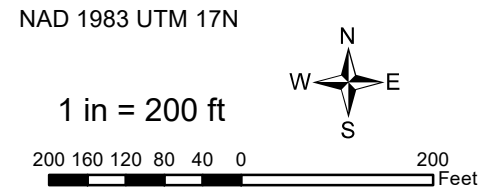
Timber mat crossing in wetland during construction. Temporary impact to W-VV5.

S-I67 crossing complete (Table 10). Temporary crossing structure impact (Table2).

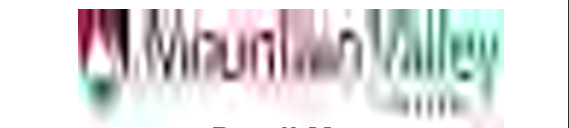
E&S BMP protection for W-I26. No impact.

- Legend**
- Milepost
 - - - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



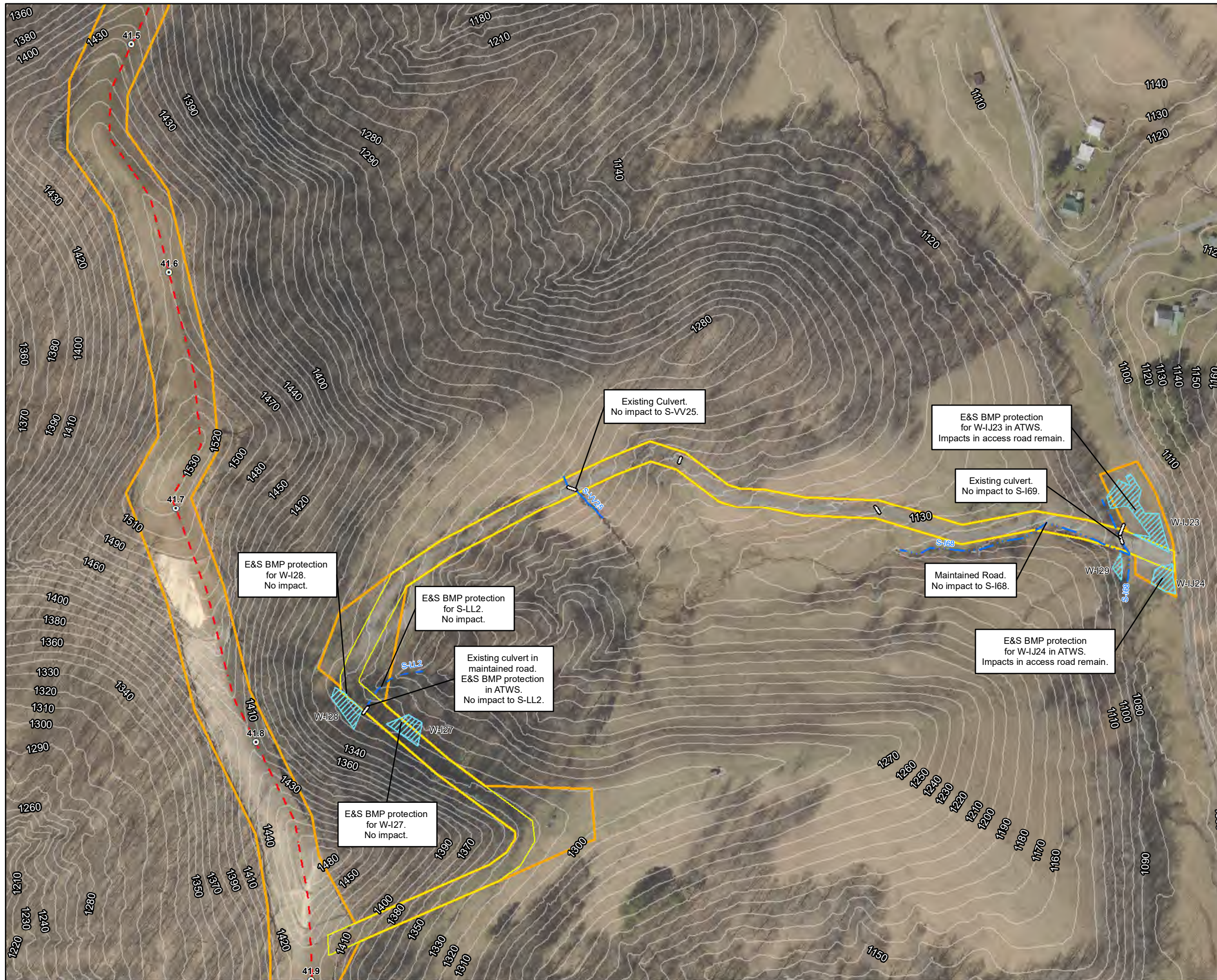
Detail Map
Individual Permit Application

Figure 4-99
Lewis County, West Virginia

February 2021

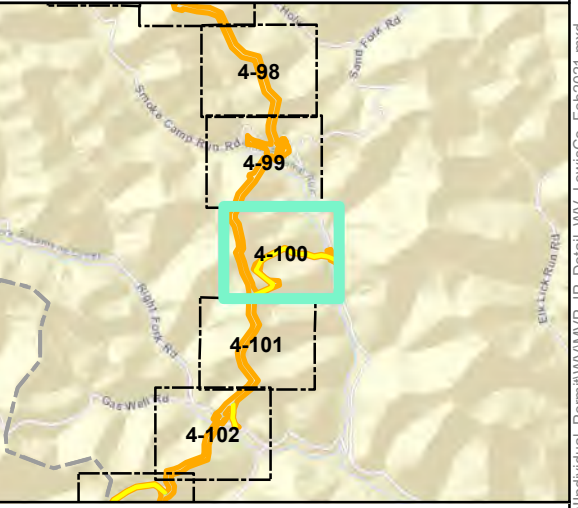
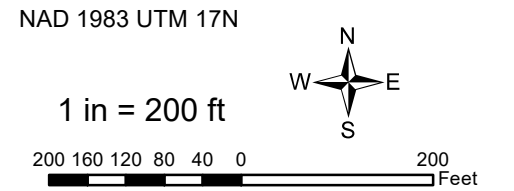
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



E&S BMP protection for W-I28. No impact.

E&S BMP protection for S-LL2. No impact.

Existing culvert in maintained road. E&S BMP protection in ATWS. No impact to S-LL2.

E&S BMP protection for W-I27. No impact.

Existing Culvert. No impact to S-VV25.

E&S BMP protection for W-IJ23 in ATWS. Impacts in access road remain.

Existing culvert. No impact to S-I69.

Maintained Road. No impact to S-I68.

E&S BMP protection for W-IJ24 in ATWS. Impacts in access road remain.

Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-100
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

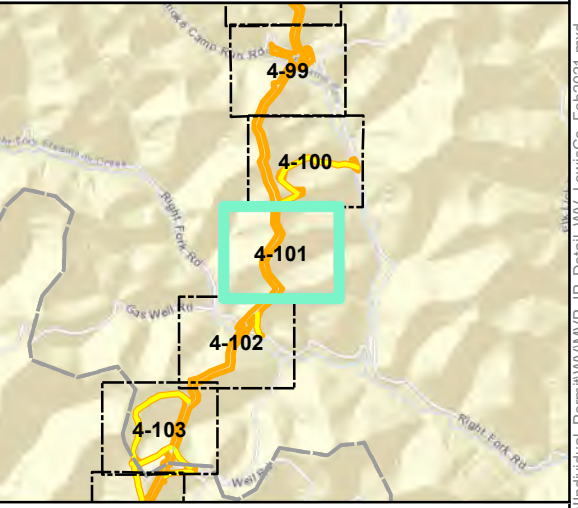
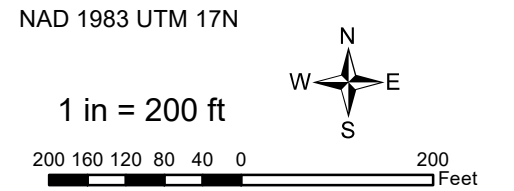
Document Path: P:\GIS\2021\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-101
Lewis County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

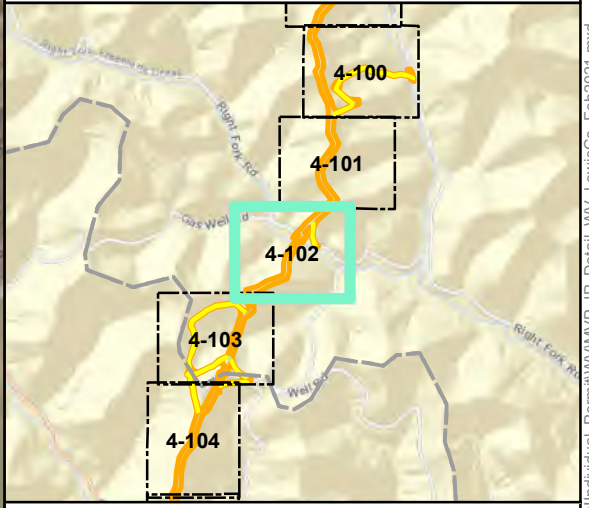
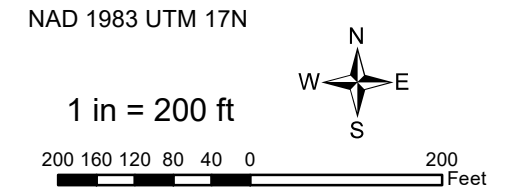
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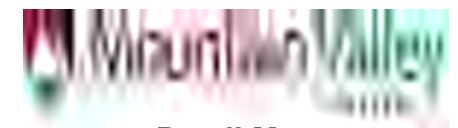
S-J43 crossing complete (Table 10).
Temporary crossing structure impact (Table 2).

- ### Legend
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



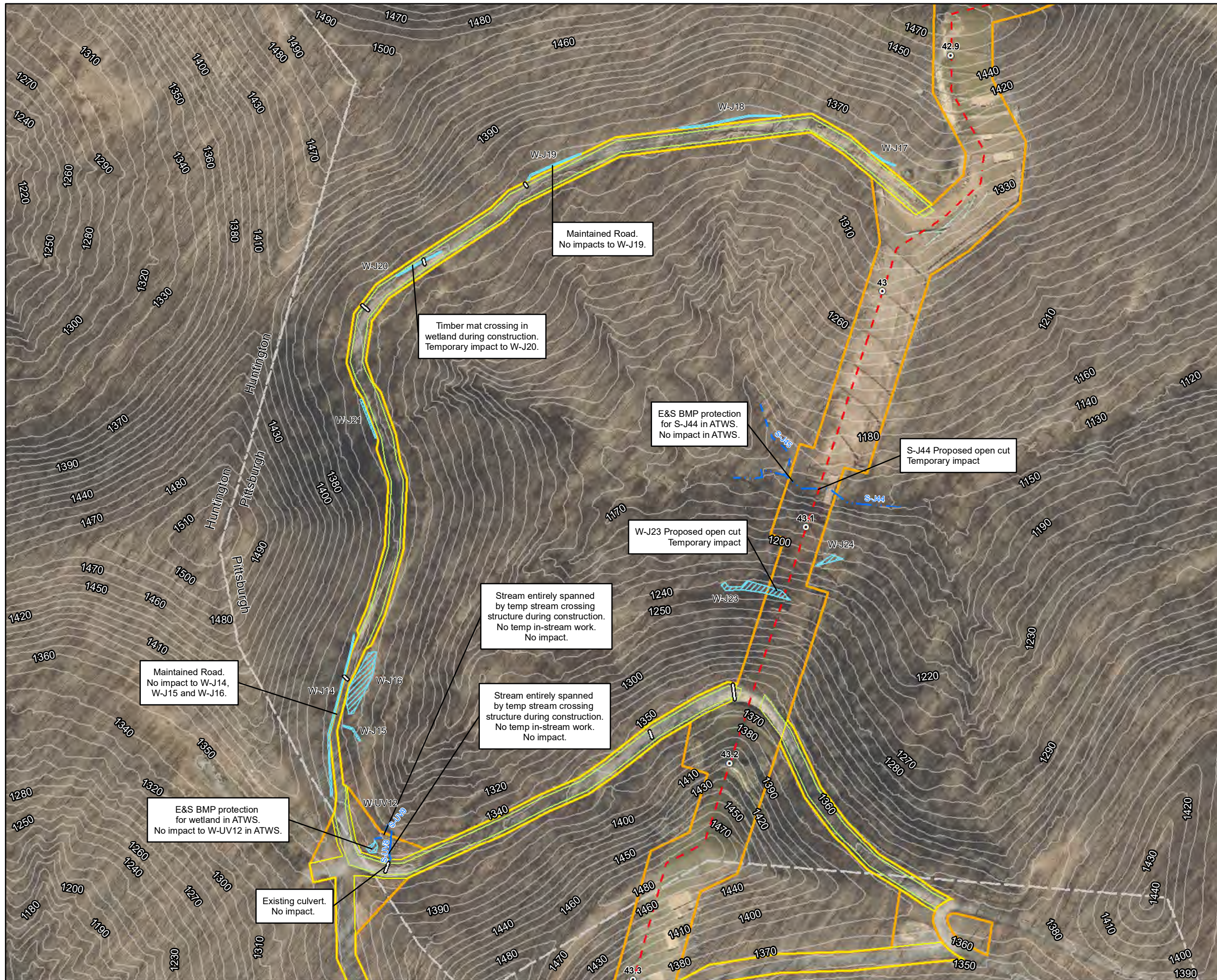
Detail Map Individual Permit Application

Figure 4-102
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\MVP_IP_Detail_WV_LewisCo_Feb2021.mxd



Legend

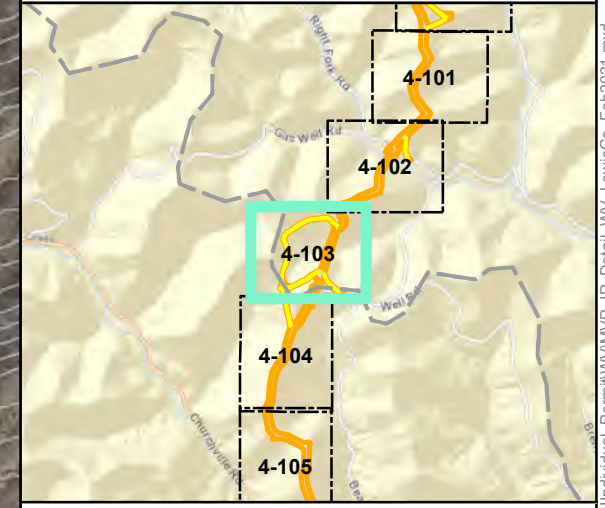
○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
▭ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-103
Lewis County, West Virginia

February 2021

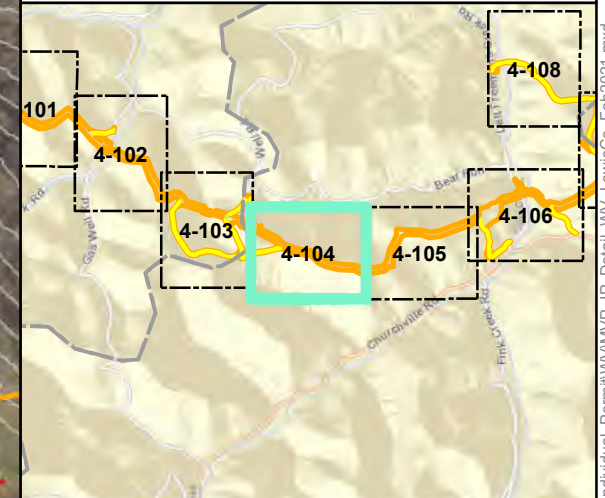
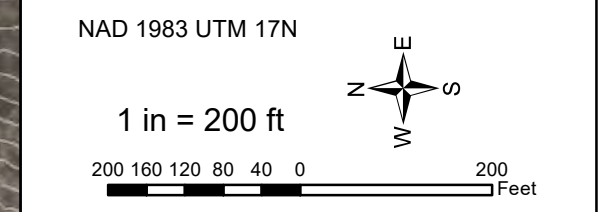
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\IMVP\Mapdocs\Wetlands\Individual_Permit\WV\Map\IP_Detail\WV_LewisCo_Feb2021.mxd



- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - Pond
 - Wetland
 - Palustrine Forested
 - Palustrine Emergent
 - Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-104
Lewis County, West Virginia

February 2021

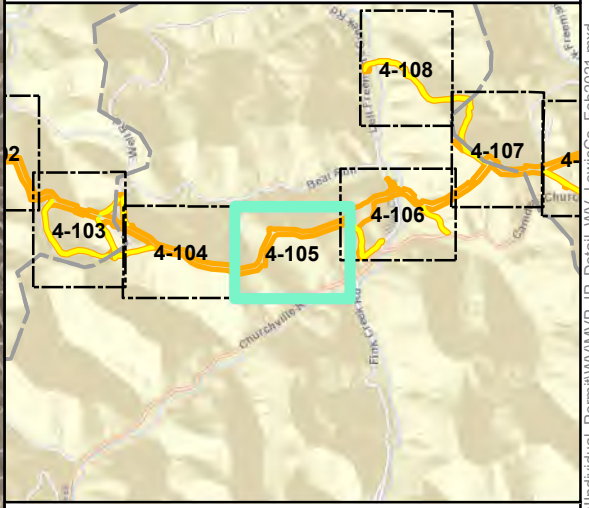
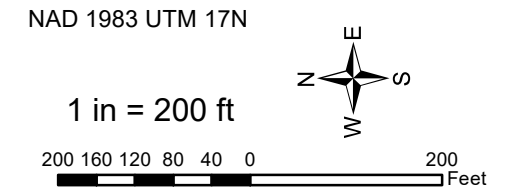
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
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 - Pond
 - Wetland
 - Palustrine Forested
 - Palustrine Emergent
 - Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

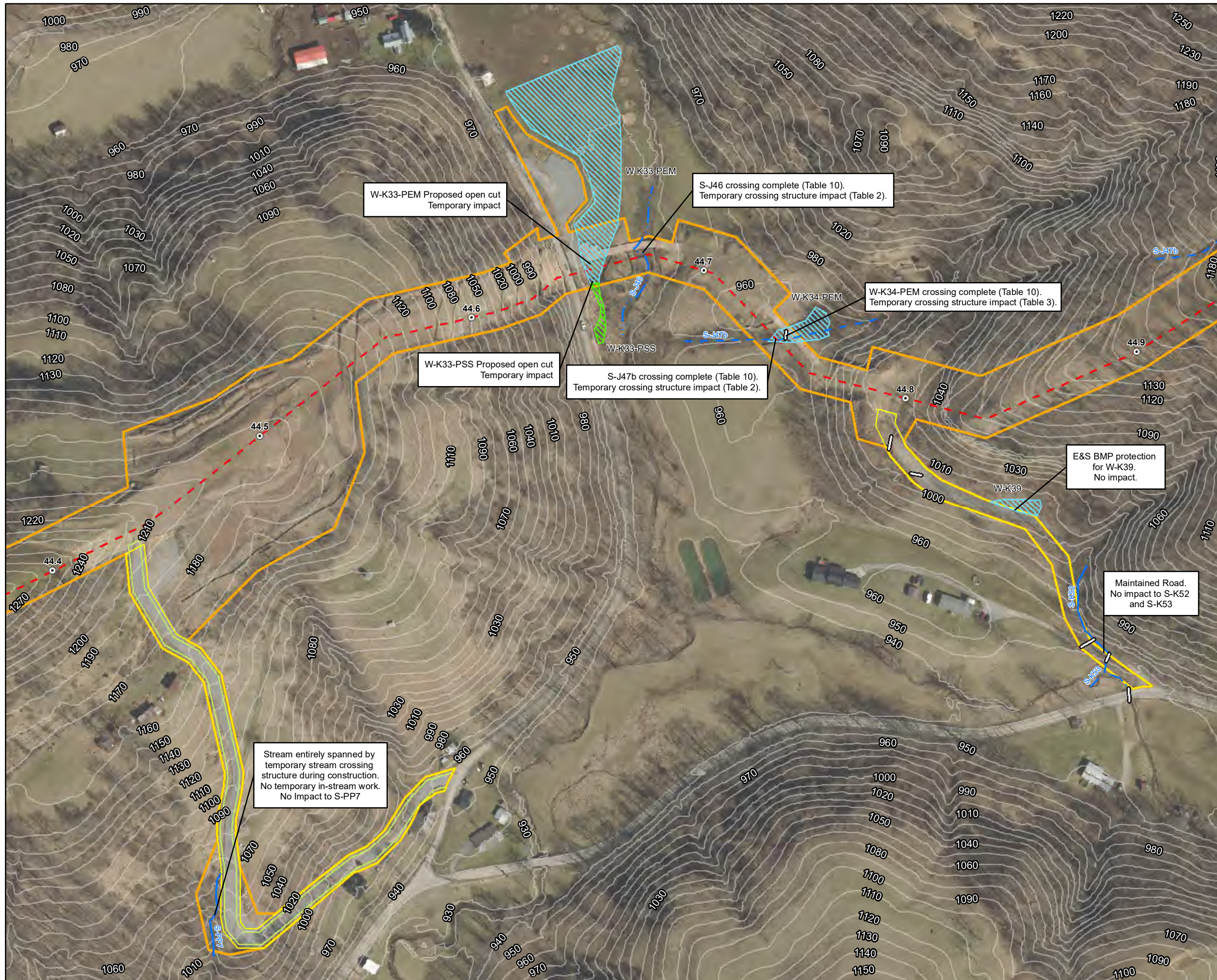
Detail Map
Individual Permit Application

Figure 4-105
Lewis County, West Virginia

February 2021

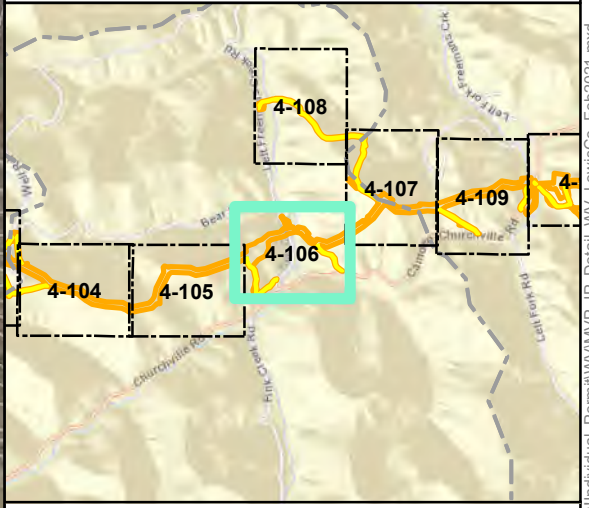
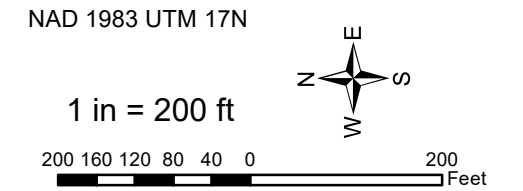
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-106
Lewis County, West Virginia

February 2021

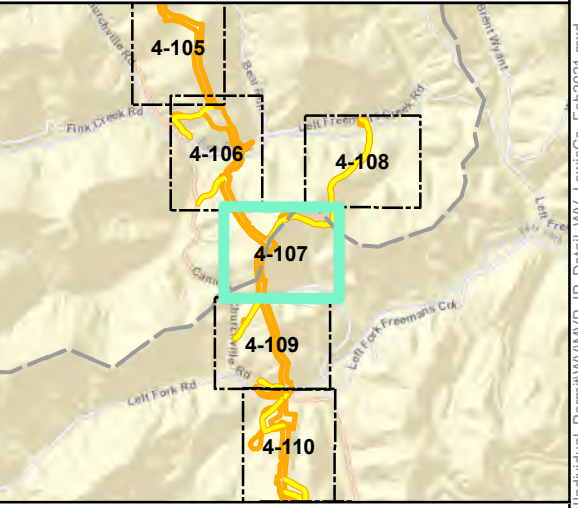
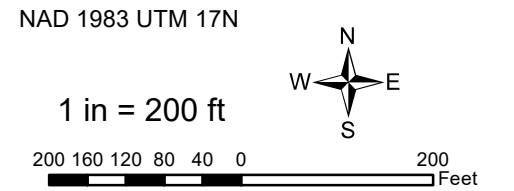
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-107
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

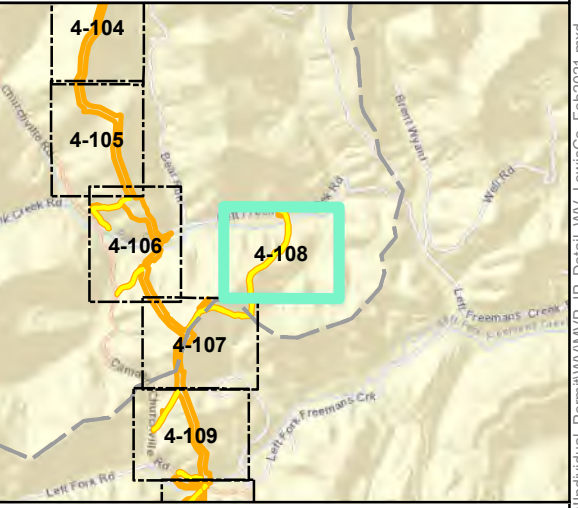
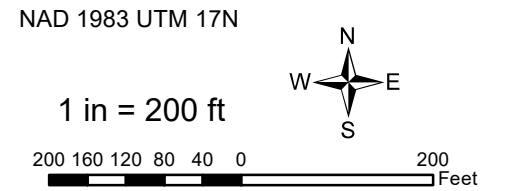
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Legend

- | | |
|-----------------------------|--------------------------|
| ⊙ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| ▭ Access Road Temporary LOD | - · - · - Perennial |
| ▭ Access Road Permanent LOD | — Ephemeral |
| ▭ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | ▨ Wetland |
| ▭ Bore Pit | ▨ Palustrine Forested |
| ▭ Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-108
Lewis County, West Virginia

February 2021

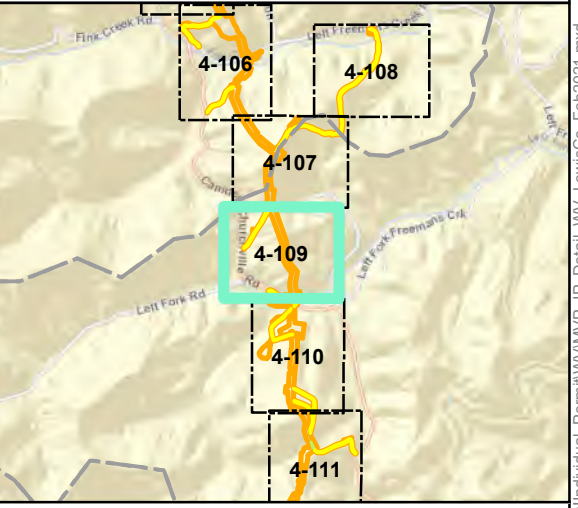
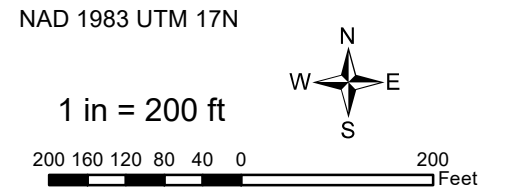
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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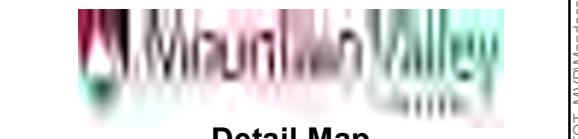


- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

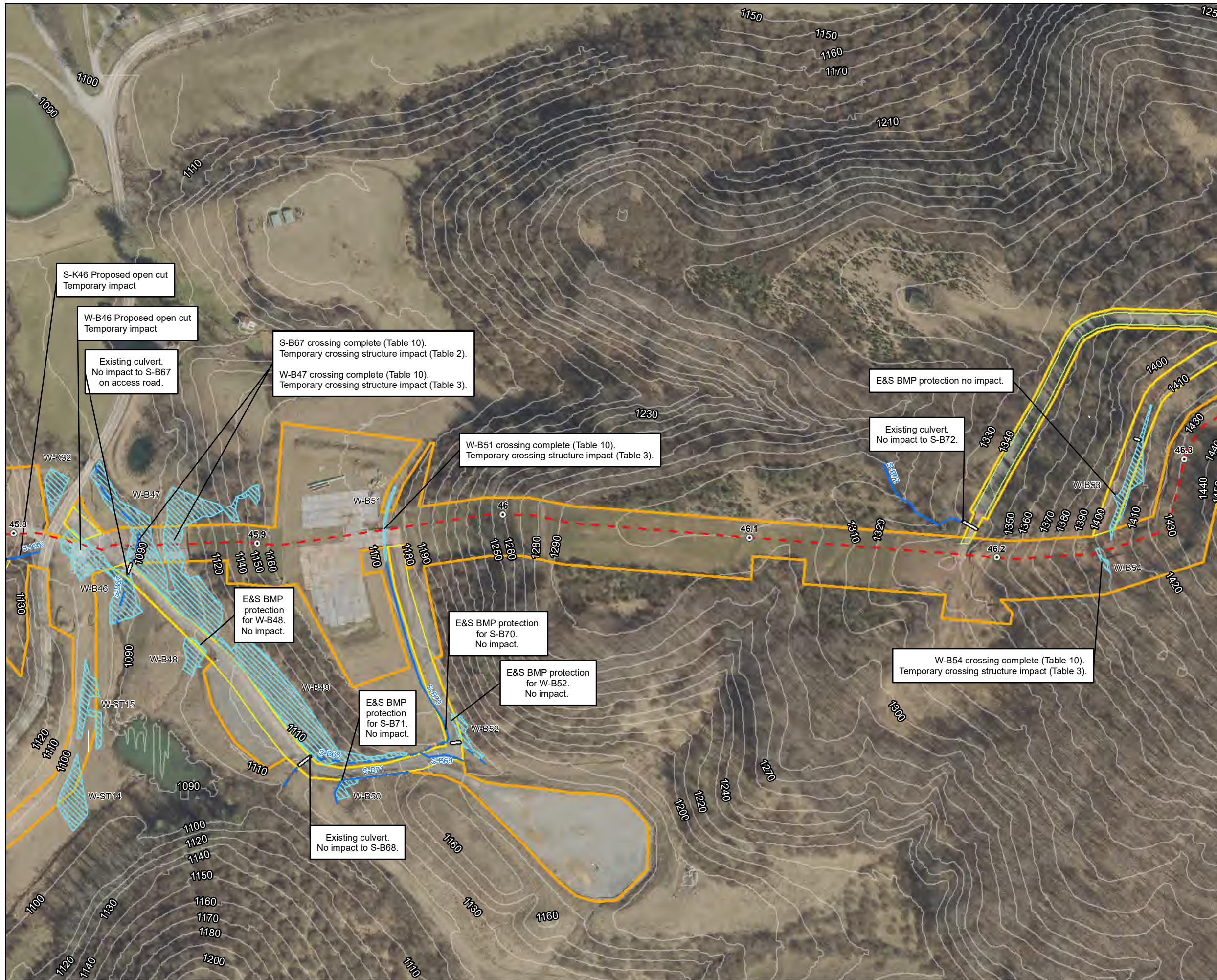


**Detail Map
Individual Permit Application**

Figure 4-109
Lewis County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010102\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



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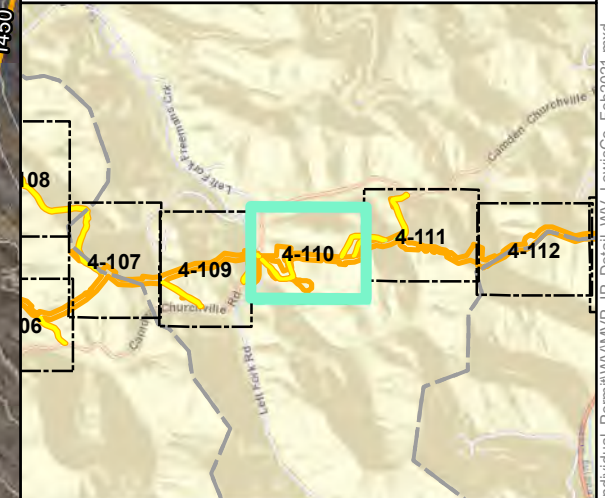
○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
□ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project



Detail Map Individual Permit Application

Figure 4-110
Lewis County, West Virginia
February 2021

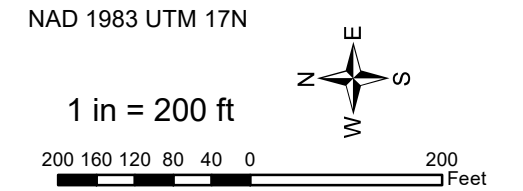
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

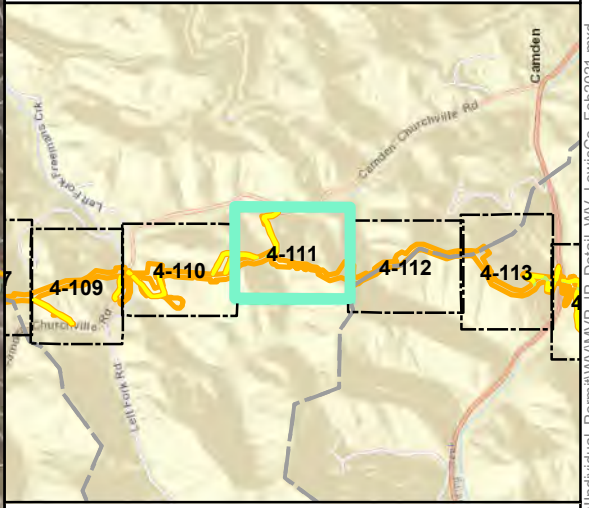


E&S BMP protection for S-H183. No impact.

S-H184 & S-H184a crossing complete (Table 10). Temporary crossing structure impact (Table 2).

S-H180 Proposed open cut Temporary impact

W-H112 Proposed bore Temporary crossing structure impact



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-111
Lewis County, West Virginia

February 2021

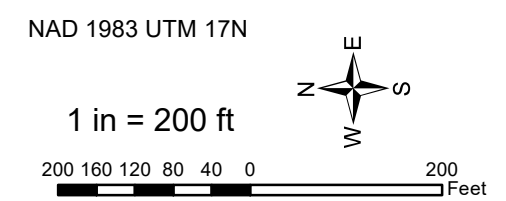
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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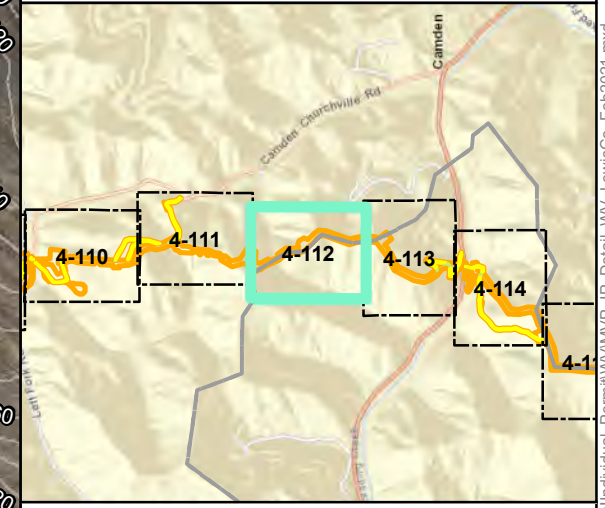
- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



E&S BMP protection for W-H111. No impact.

LOD shift to avoid wetland. No impact to W-H110.



Mountain Valley Pipeline Project



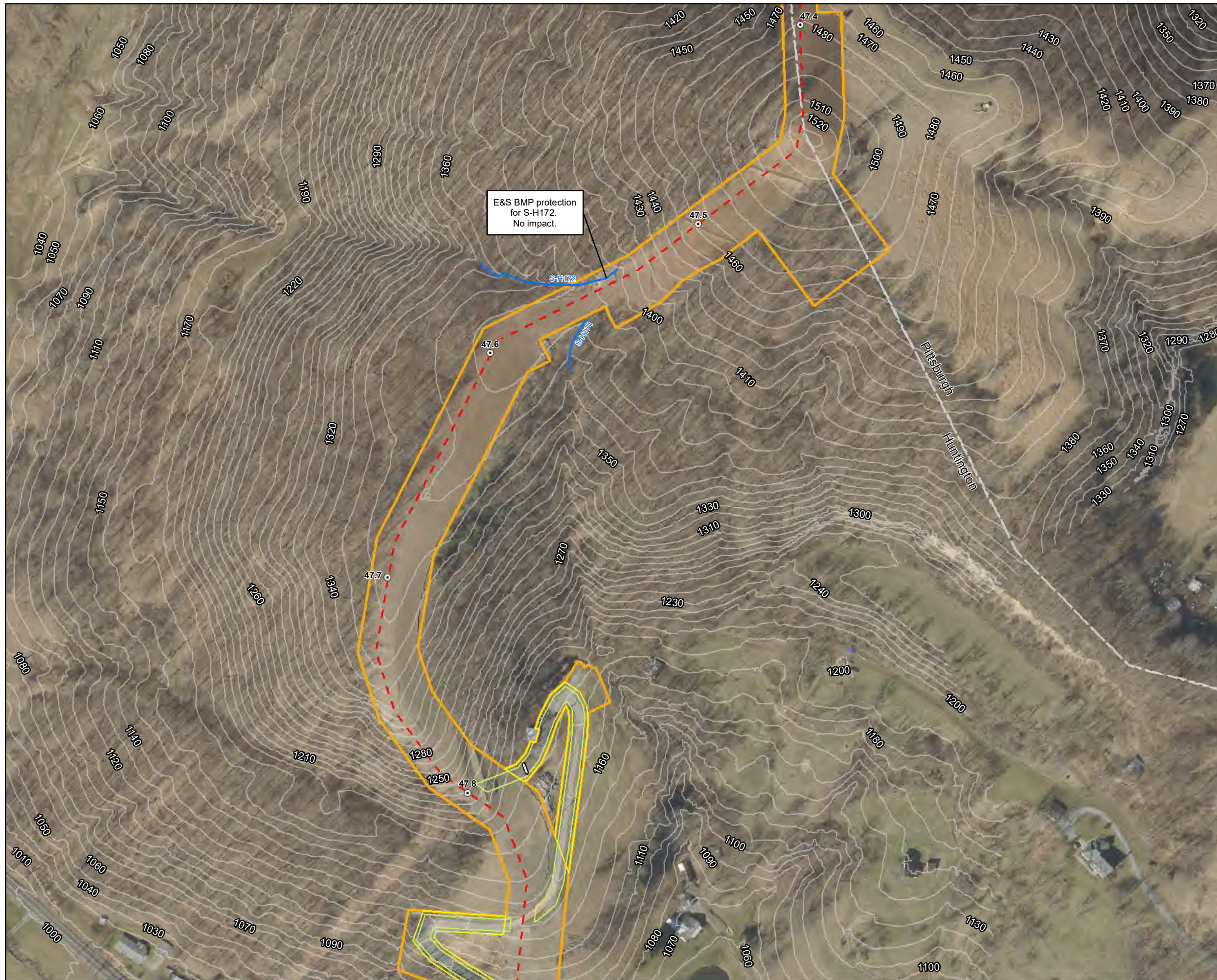
**Detail Map
Individual Permit Application**

Figure 4-112
Lewis County, West Virginia

February 2021

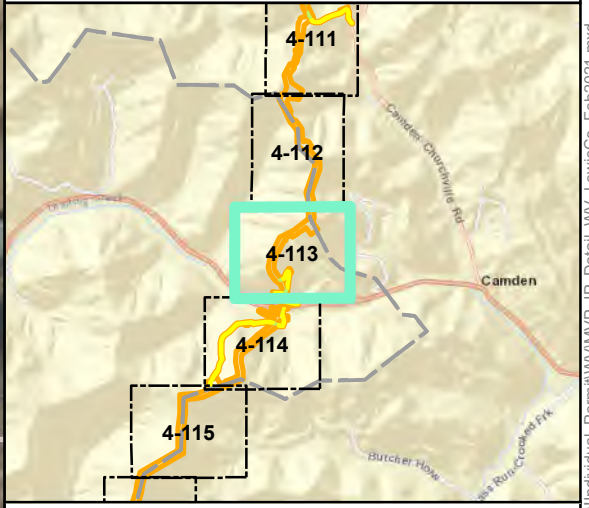
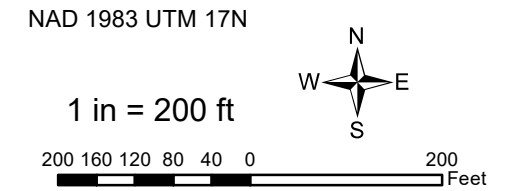
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



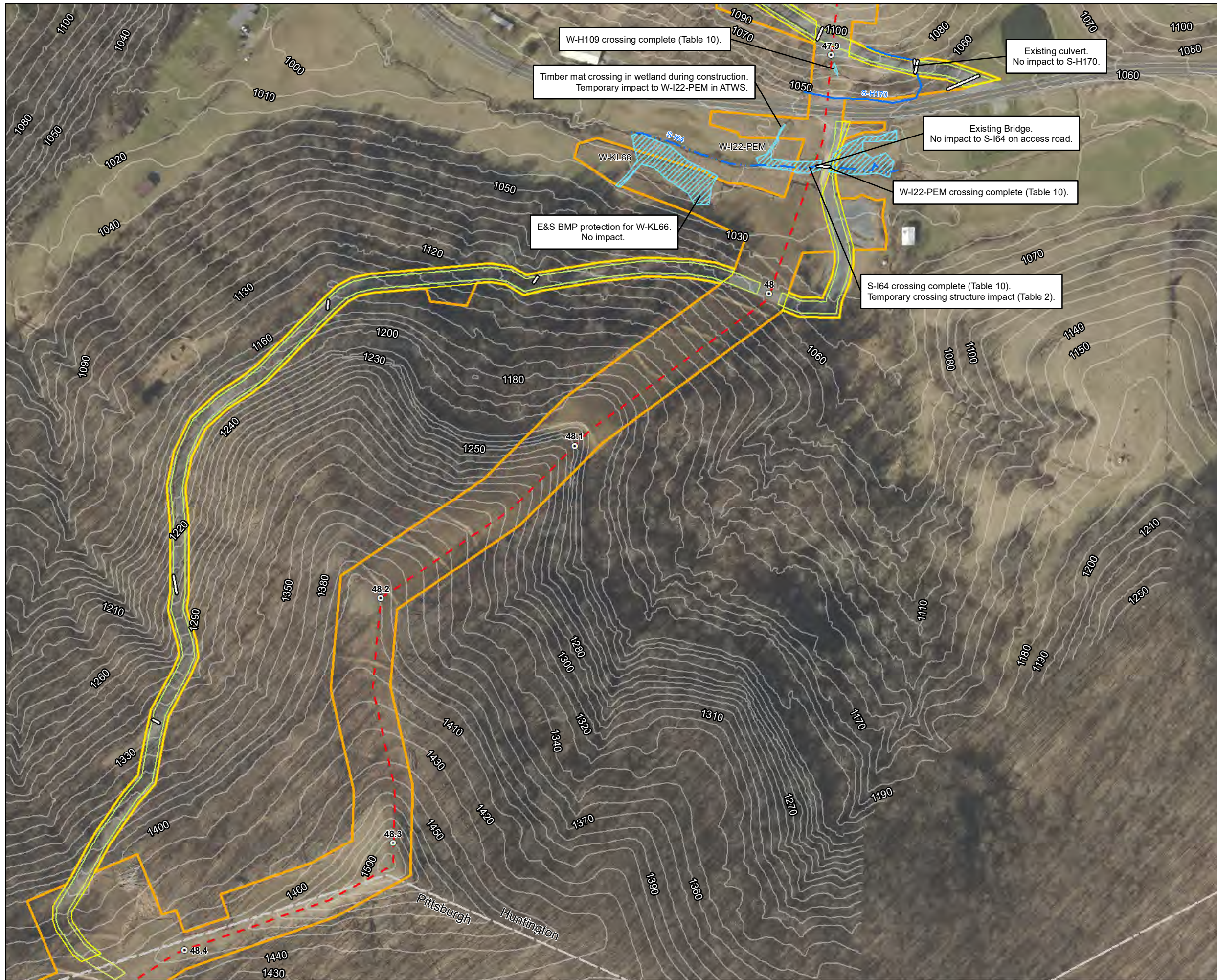
**Detail Map
Individual Permit Application**

Figure 4-113
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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W-H109 crossing complete (Table 10).

Timber mat crossing in wetland during construction. Temporary impact to W-I22-PEM in ATWS.

Existing culvert. No impact to S-H170.

Existing Bridge. No impact to S-I64 on access road.

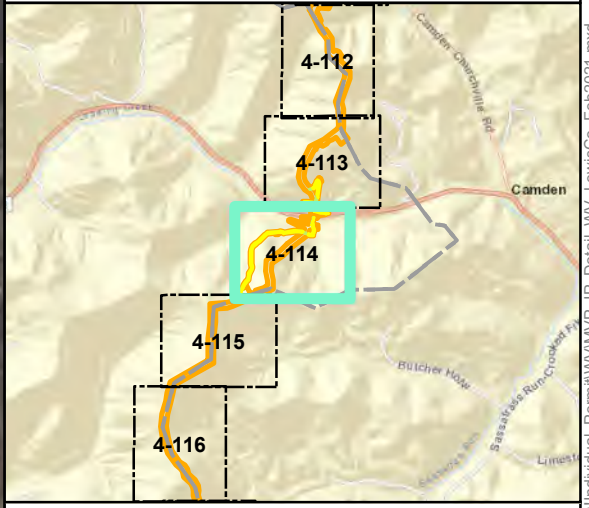
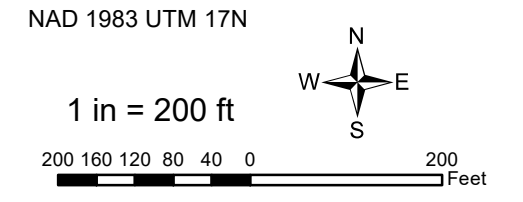
W-I22-PEM crossing complete (Table 10).

E&S BMP protection for W-KL66. No impact.

S-I64 crossing complete (Table 10). Temporary crossing structure impact (Table 2).

- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - Pond
 - Wetland
 - Palustrine Forested
 - Palustrine Emergent
 - Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-114
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

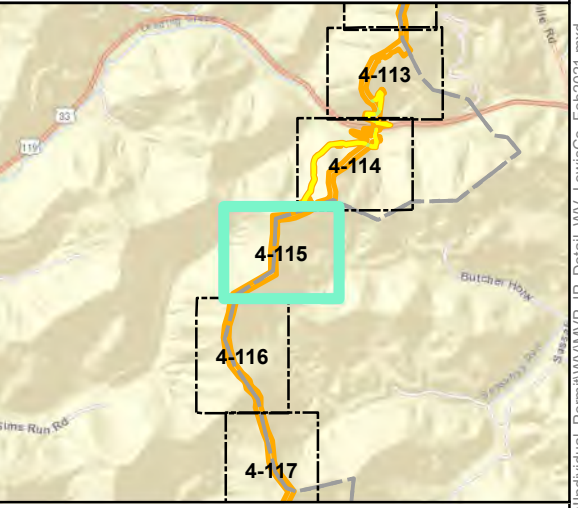
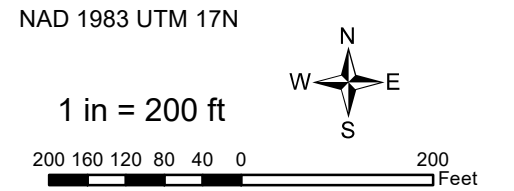
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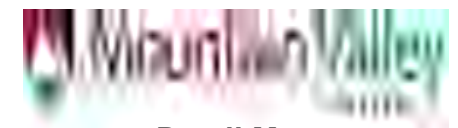
Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-115
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT_MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd

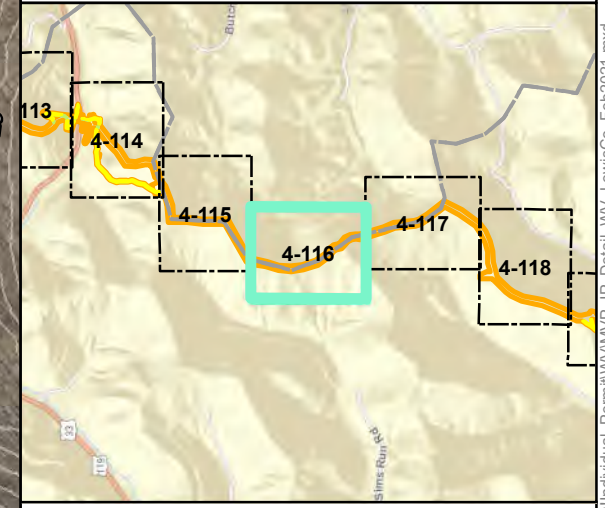
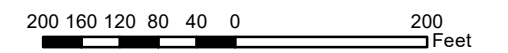


- Legend**
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-116
Lewis County, West Virginia

February 2021

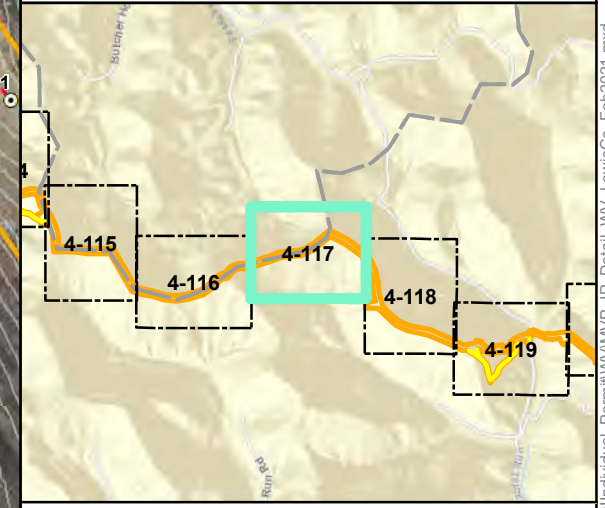
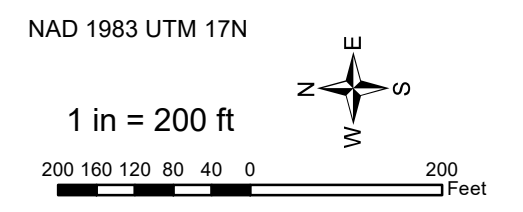
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-117
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail_WV_LewisCo_Feb2021.mxd



Legend

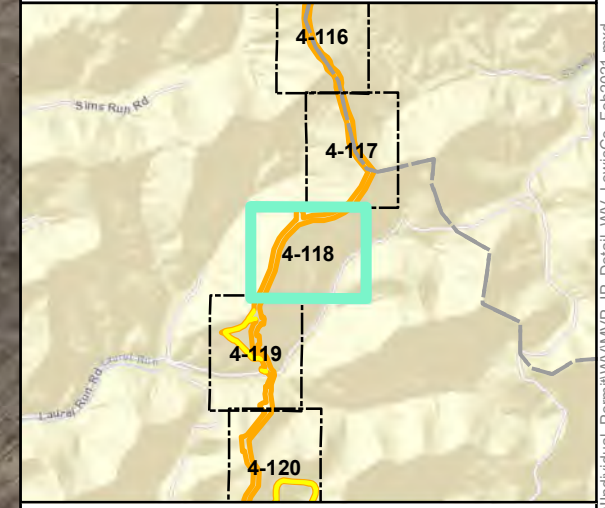
○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
▭ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

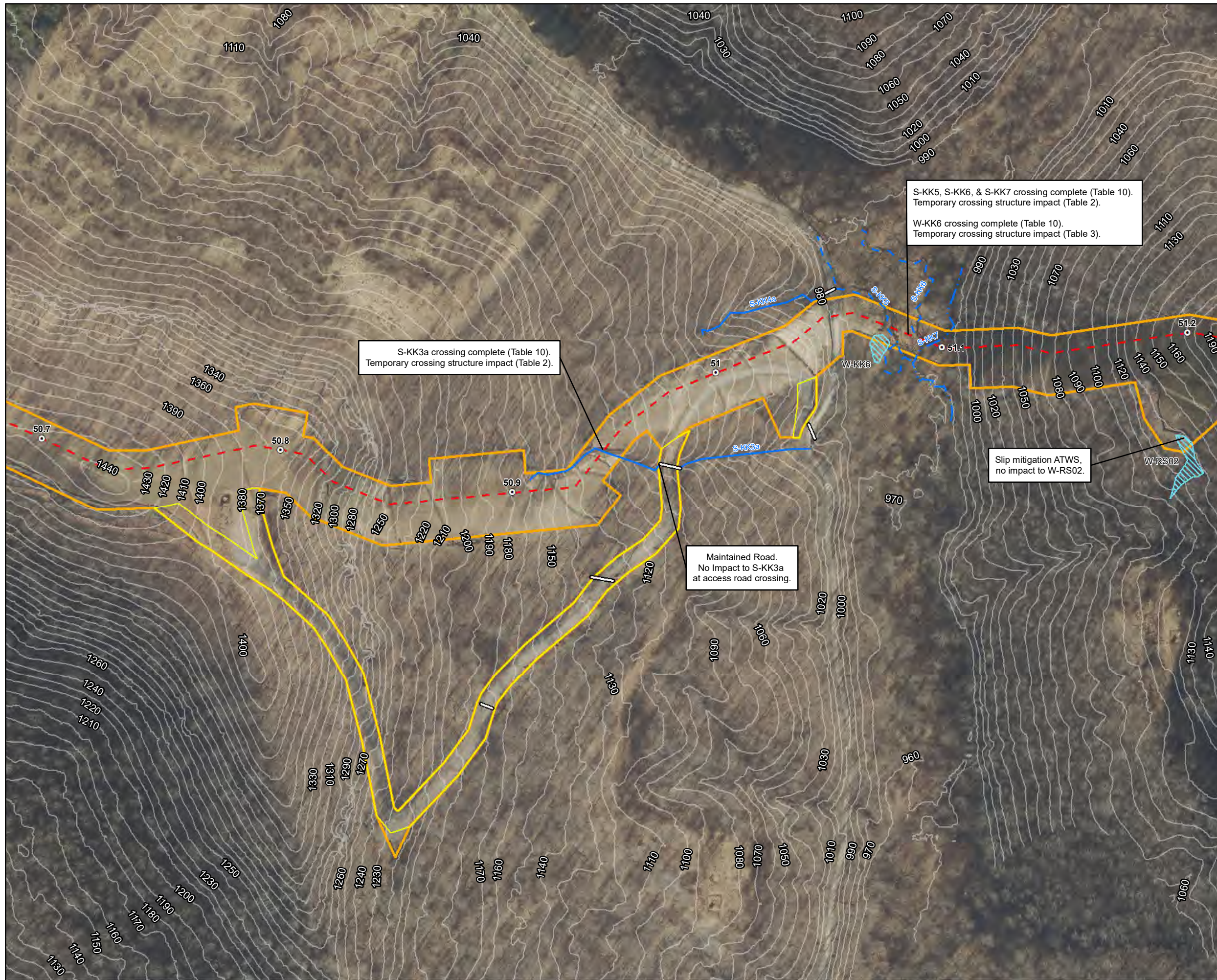
Detail Map
Individual Permit Application

Figure 4-118
Lewis County, West Virginia

February 2021

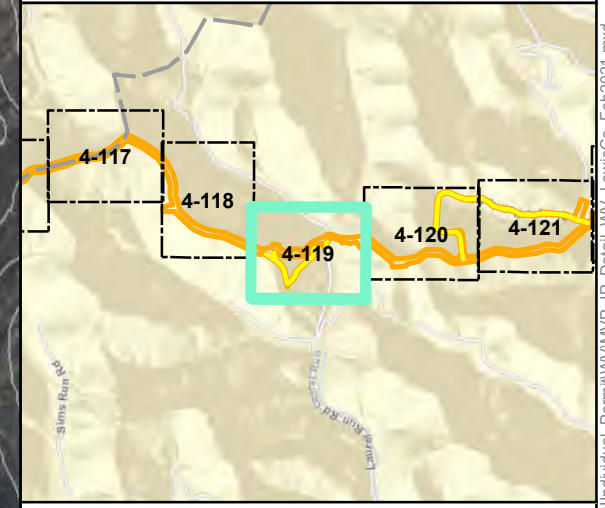
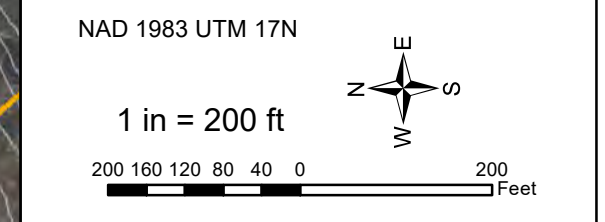
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- ### Legend
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-119
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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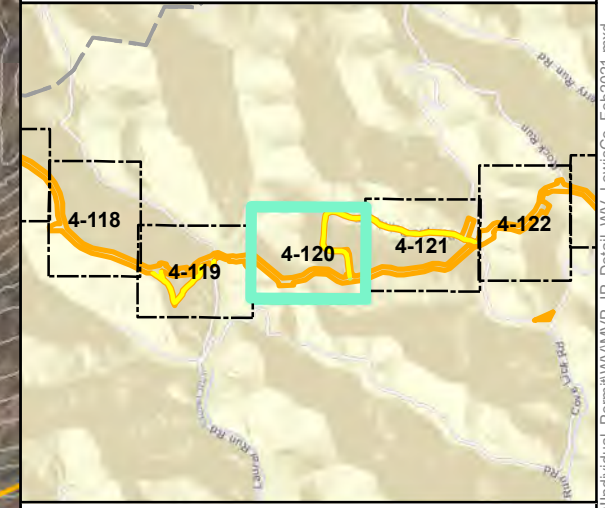
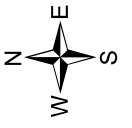
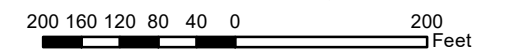
Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-120
Lewis County, West Virginia

February 2021

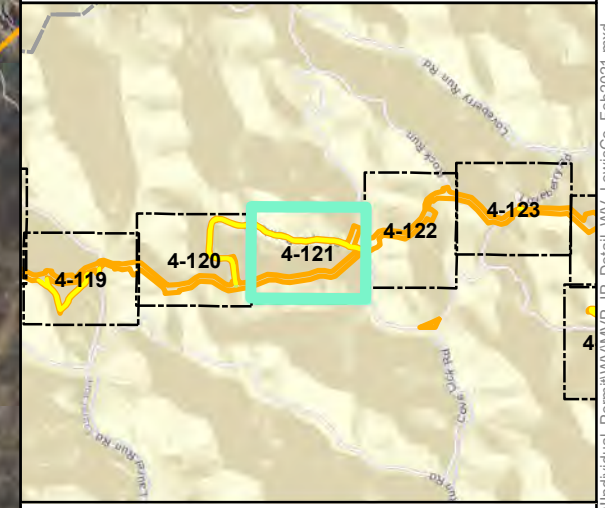
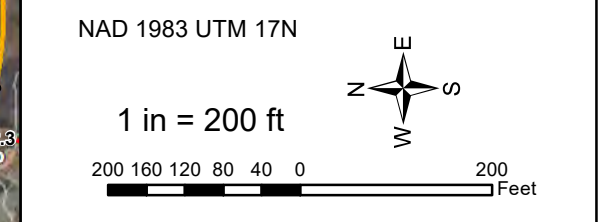
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV_MVP_Detail_WV_LewisCo_Feb2021.mxd



- Legend**
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| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-121
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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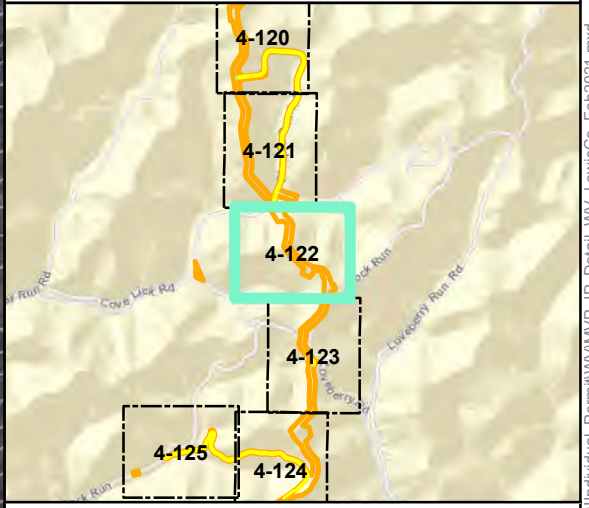
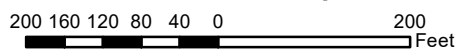
Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-122
Lewis County, West Virginia

February 2021

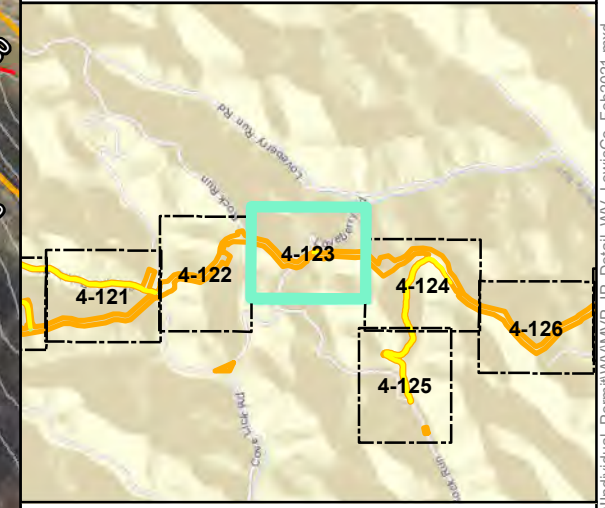
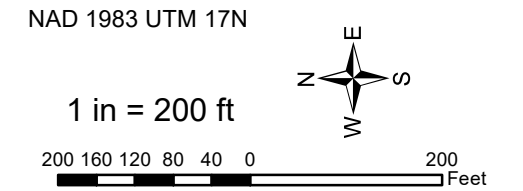
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
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 - Wetland
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 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-123
Lewis County, West Virginia

February 2021

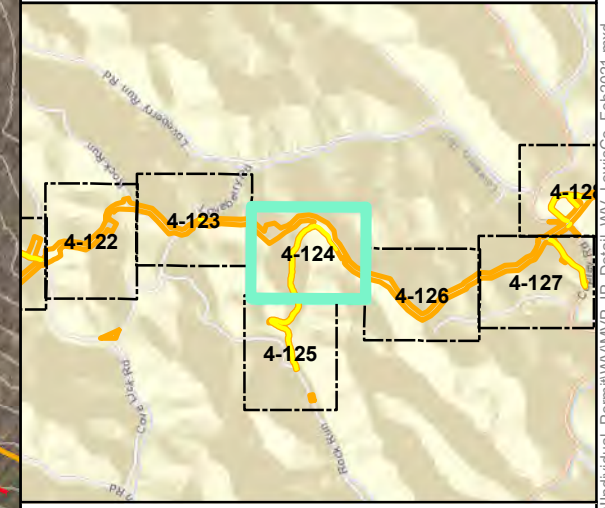
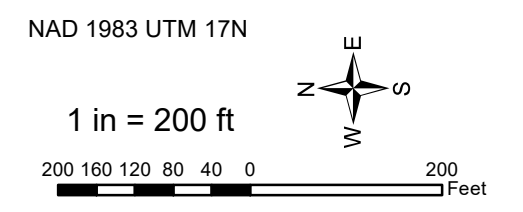
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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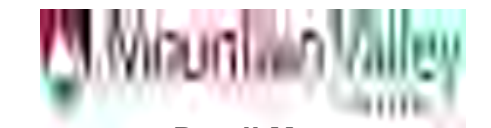


- ### Legend
- Milepost
 - - - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - ▬ Culvert
 - Stream
 - - - Intermittent
 - · - · Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map Individual Permit Application

Figure 4-124
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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Legend

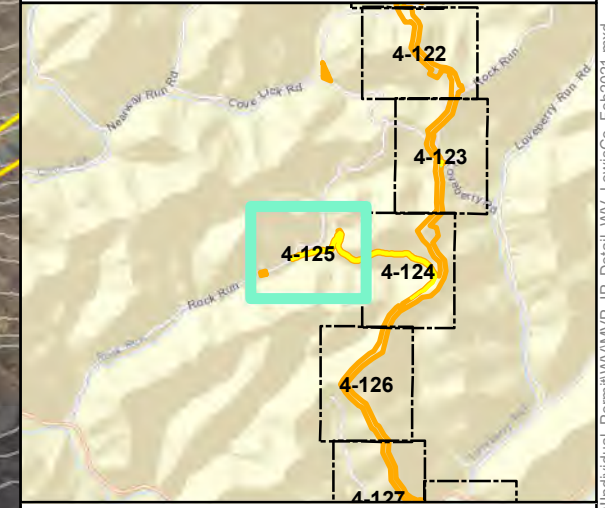
○ Milepost	Stream
— Alignment Centerline	— Intermittent
□ Access Road Temporary LOD	— Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
□ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-125
Lewis County, West Virginia

February 2021

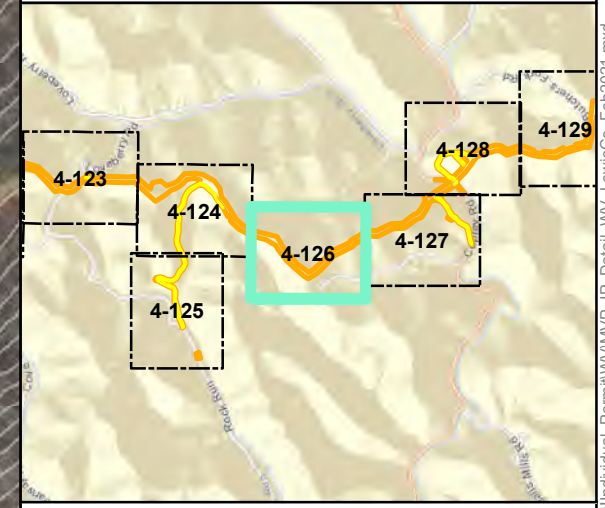
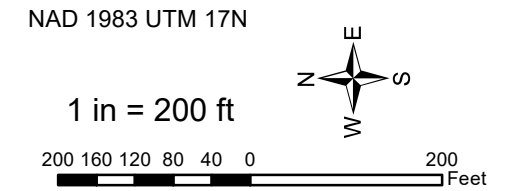
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - - - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-126
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



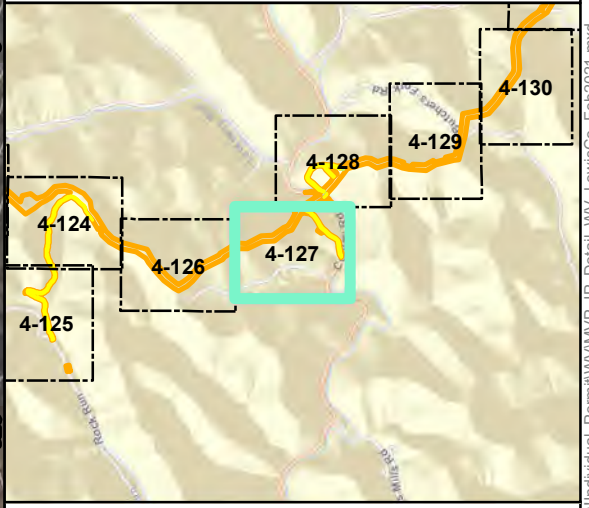
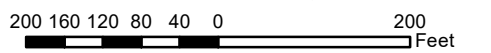
Legend

- Milepost
- Alignment Centerline
- Access Road Temporary LOD
- Access Road Permanent LOD
- Permanent Facility
- Limit of Disturbance
- Bore Pit
- ▬ Culvert
- Stream
- Intermittent
- Perennial
- Ephemeral
- ▨ Pond
- Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

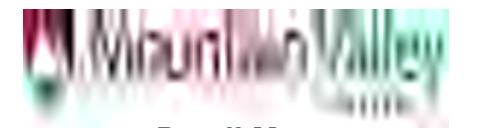
Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-127
Lewis County, West Virginia

February 2021

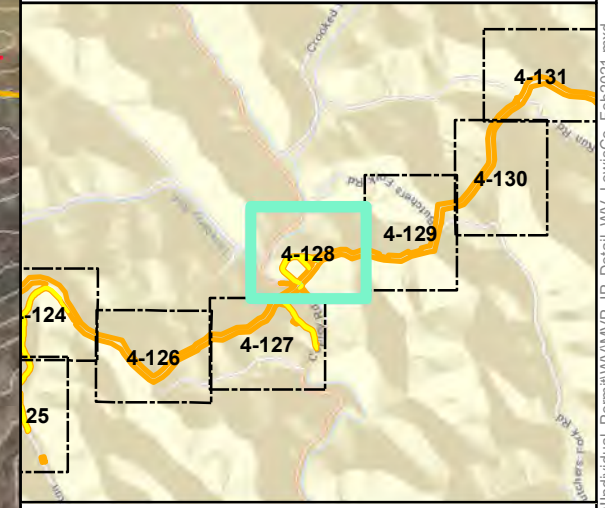
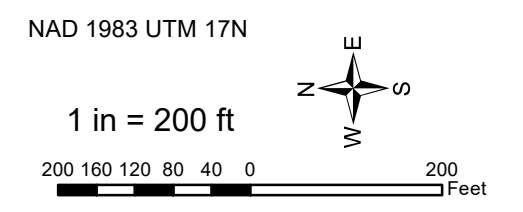
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



W-115 Proposed open cut
Temporary impact

E&S BMP protection
for S-I63 in ATWS.
No impact in ATWS.
Proposed open cut.

Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-128
Lewis County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

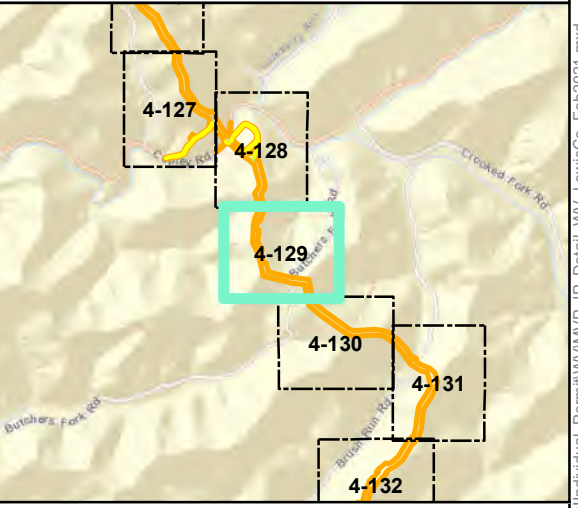
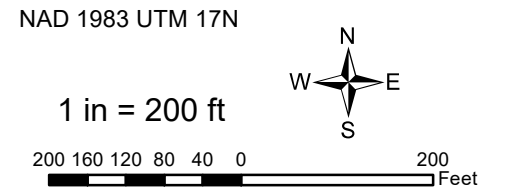
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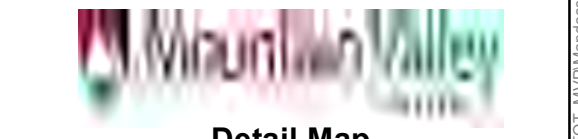
Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-129
Lewis County, West Virginia

February 2021

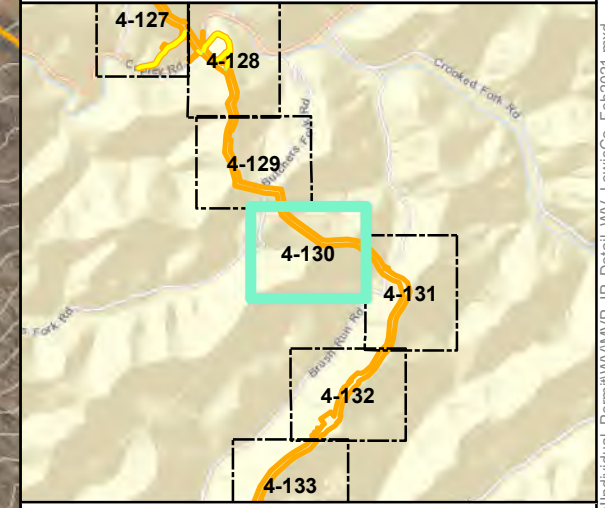
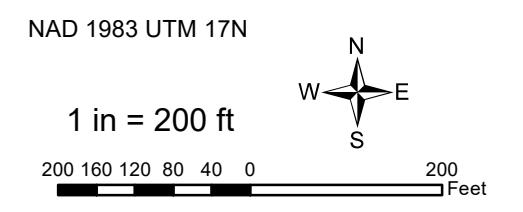
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- ### Legend
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map Individual Permit Application

Figure 4-130
Lewis County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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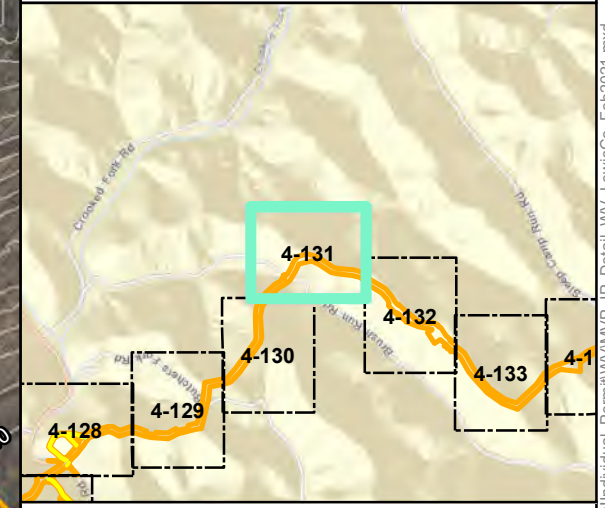
Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
□ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-131
Lewis County, West Virginia

February 2021

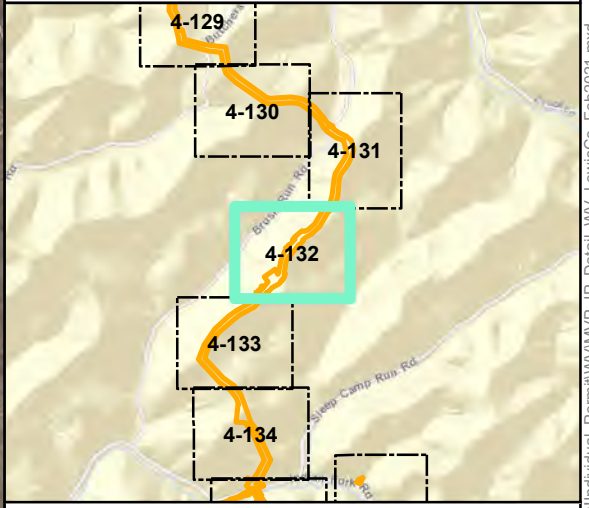
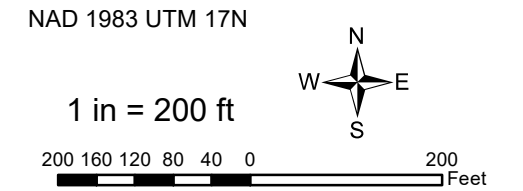
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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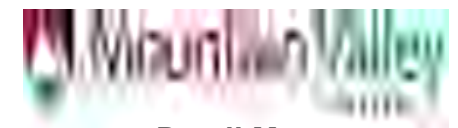


- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-132
Lewis County, West Virginia

February 2021

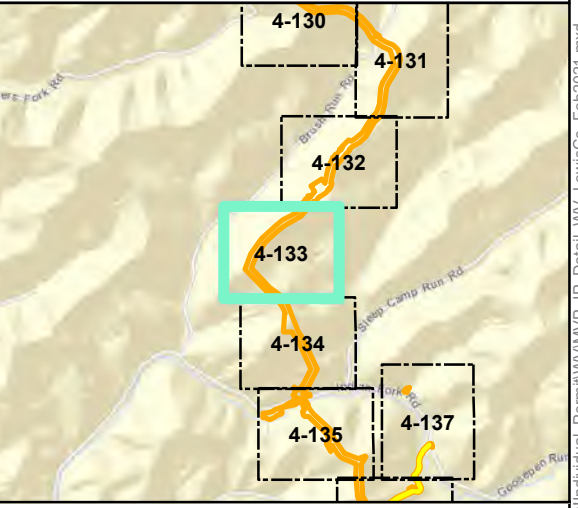
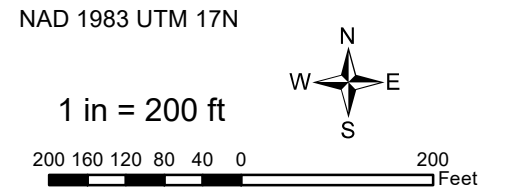
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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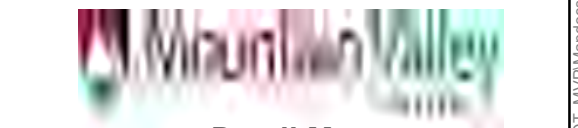


- Legend**
- Milepost
 - - - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-133
Lewis County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

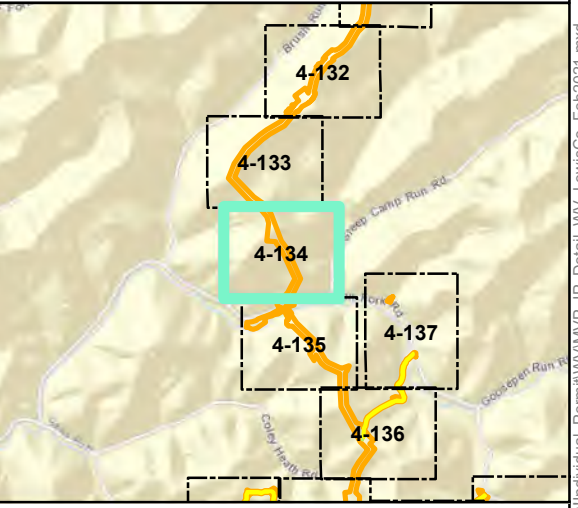
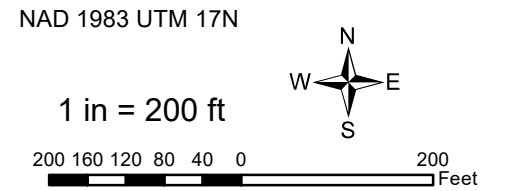
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Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

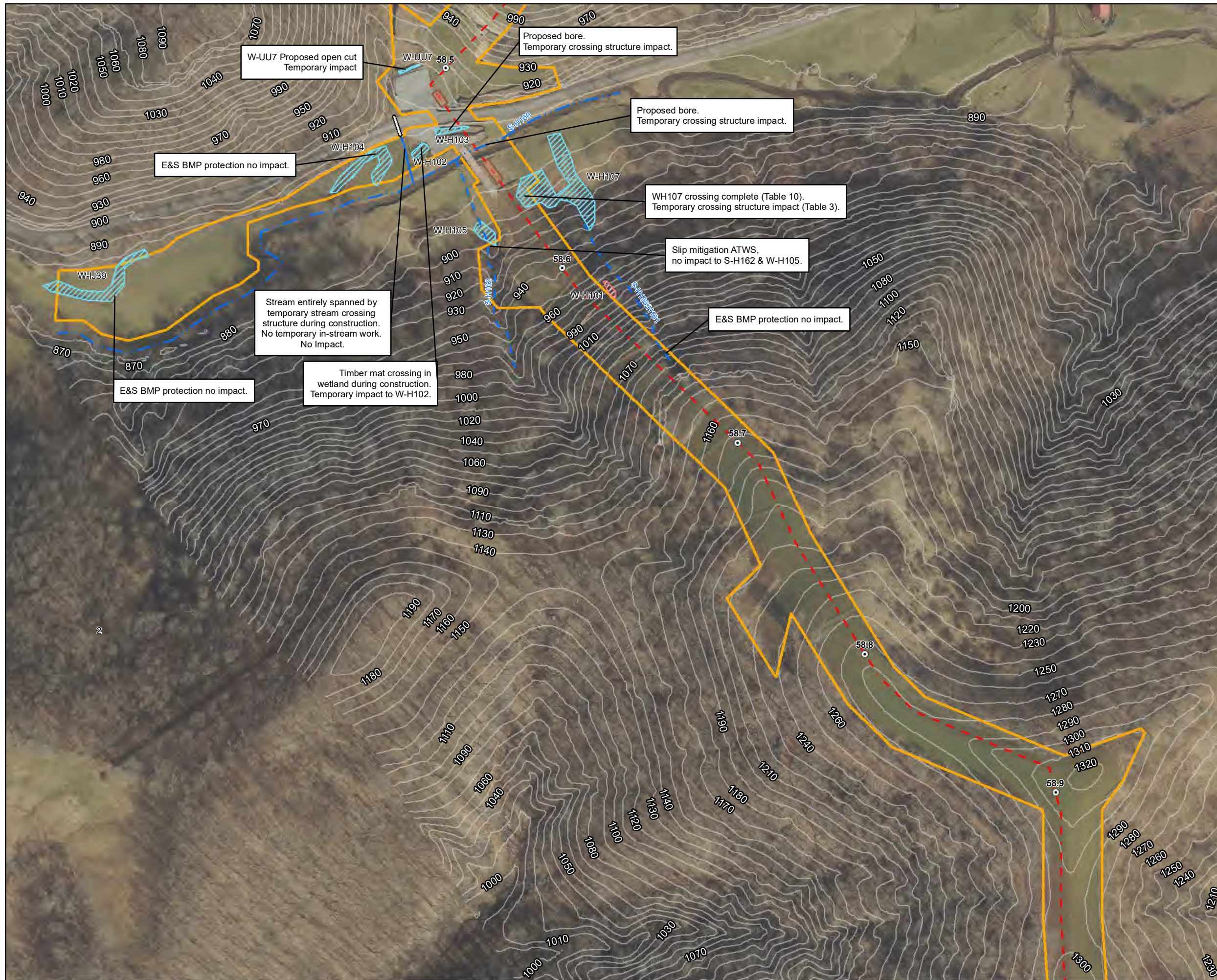


**Detail Map
Individual Permit Application**

Figure 4-134
Lewis County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01012\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



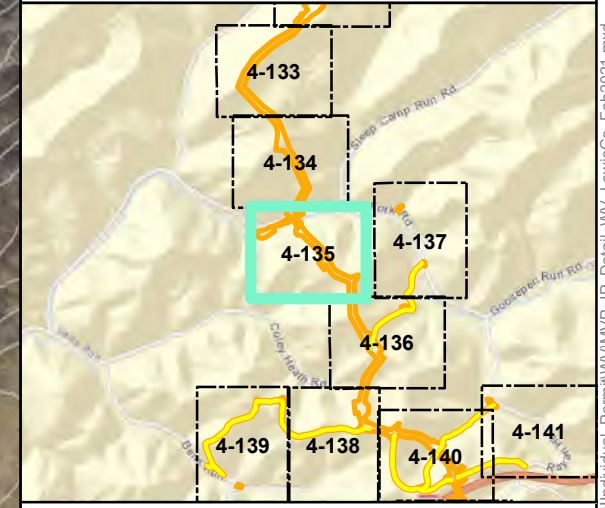
Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	- - - Ephemeral
□ Permanent Facility	▨ Pond
□ Limit of Disturbance	▨ Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

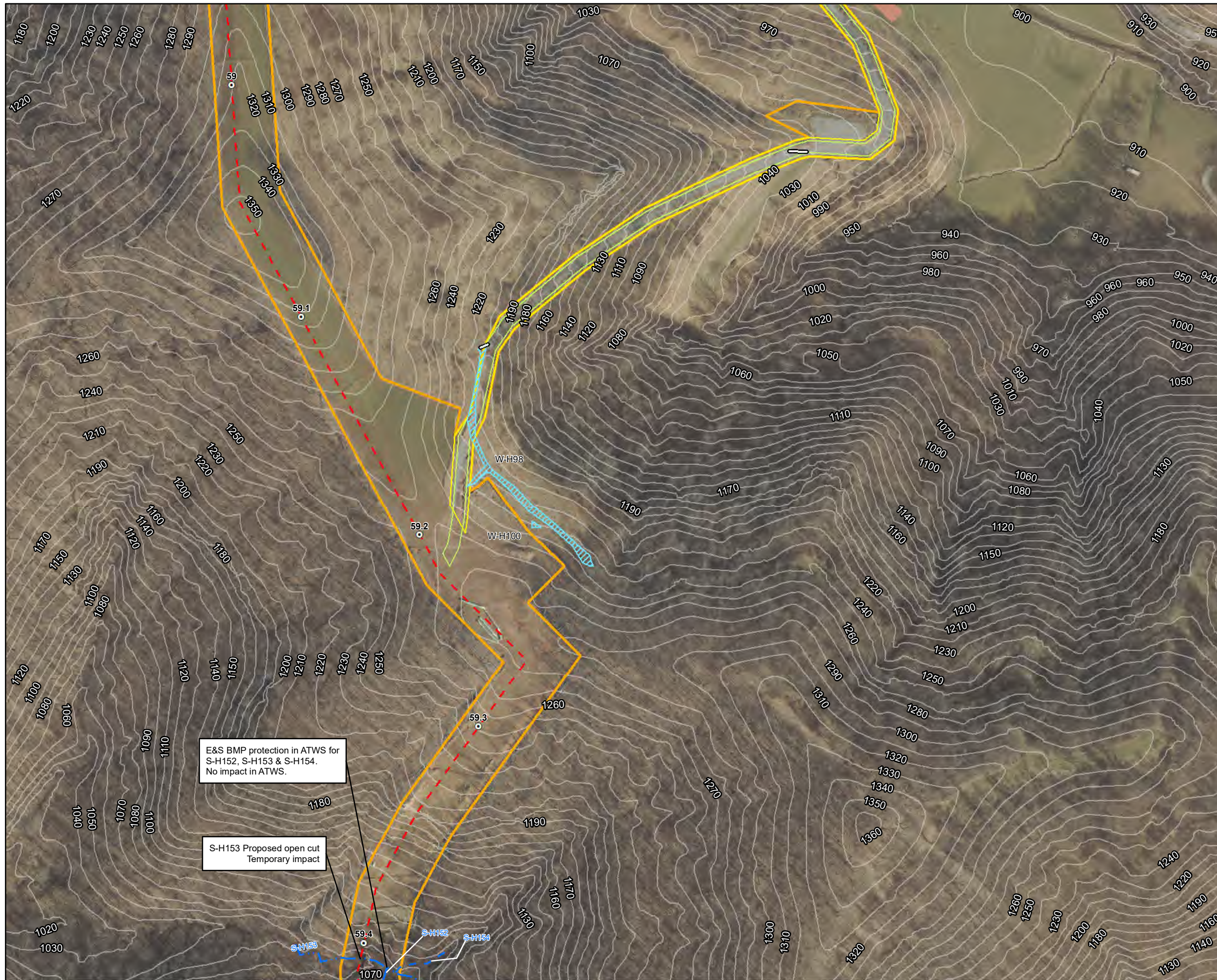
Detail Map
Individual Permit Application

Figure 4-135
Lewis County, West Virginia

February 2021

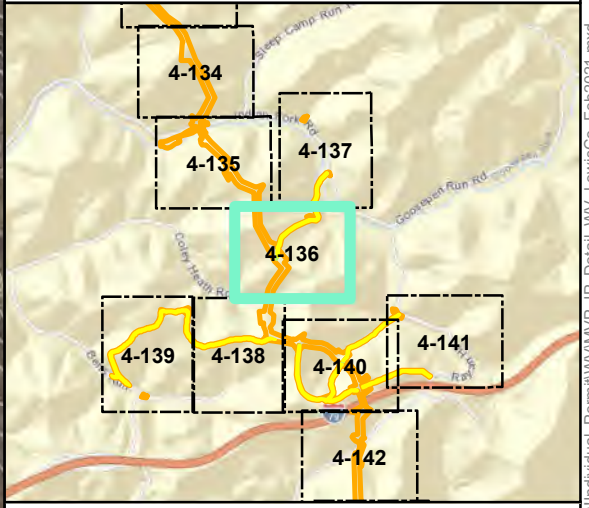
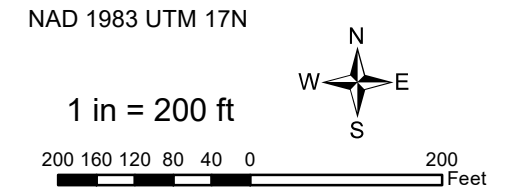
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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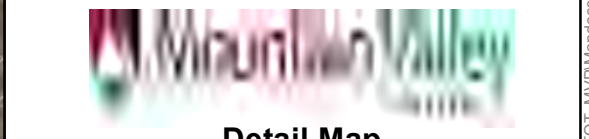


- Legend**
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-136
Lewis County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

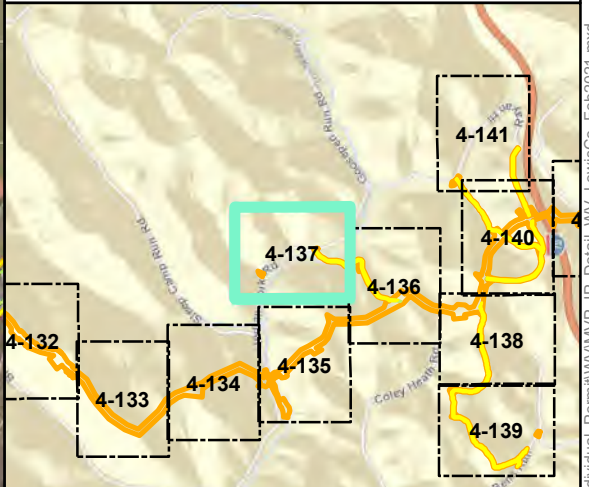
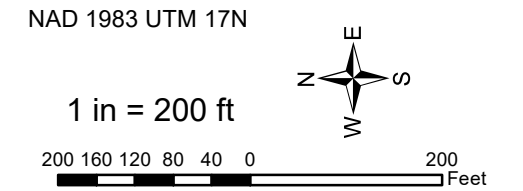
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Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-137
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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E&S BMP protection for S-H152. No impact.

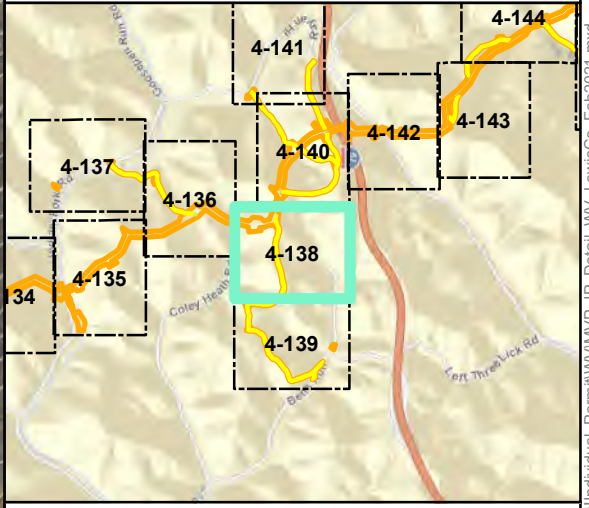
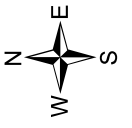
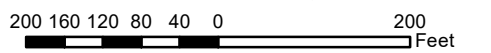
Legend

- Milepost
- Alignment Centerline
- Access Road Temporary LOD
- Access Road Permanent LOD
- Permanent Facility
- Limit of Disturbance
- Bore Pit
- Culvert
- Stream
- Intermittent
- Perennial
- Ephemeral
- ▨ Pond
- Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

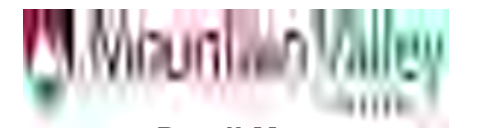
Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-138
Lewis County, West Virginia

February 2021

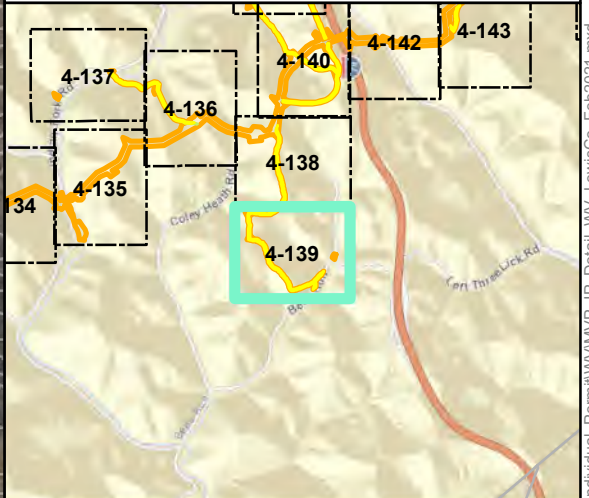
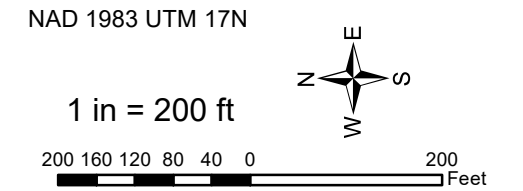
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-139
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



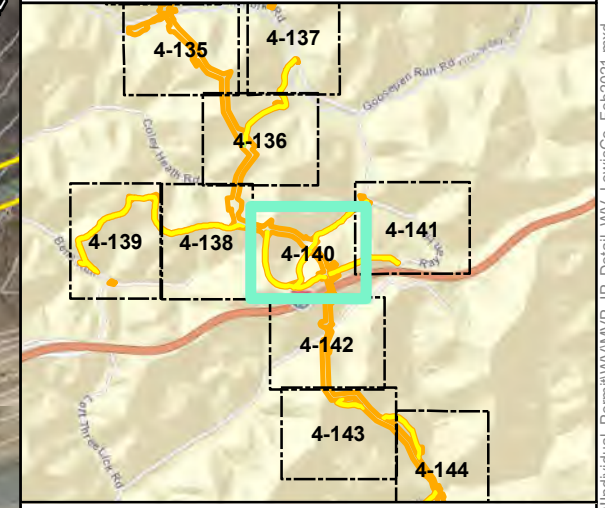
Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
□ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

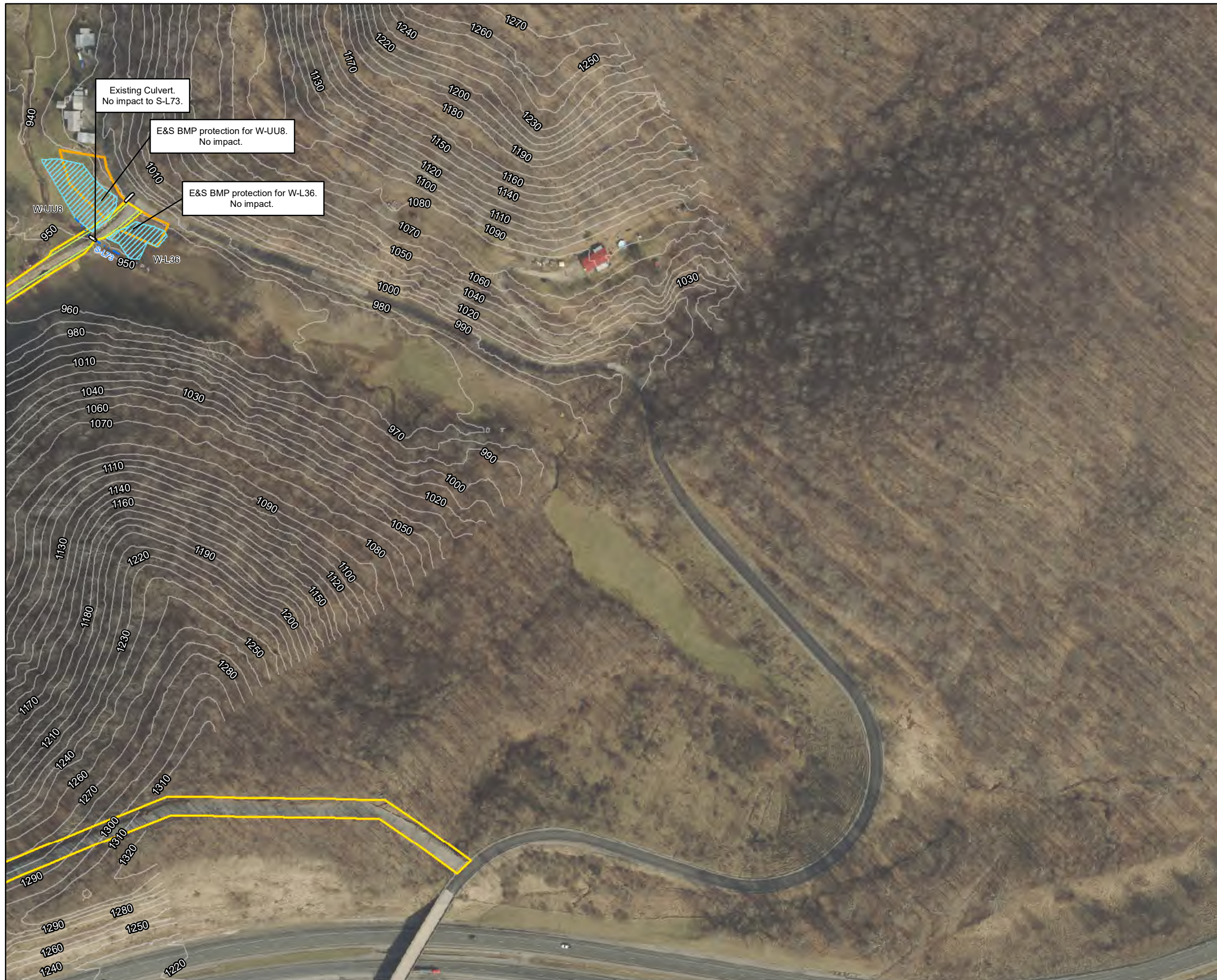
Detail Map
Individual Permit Application

Figure 4-140
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT_MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



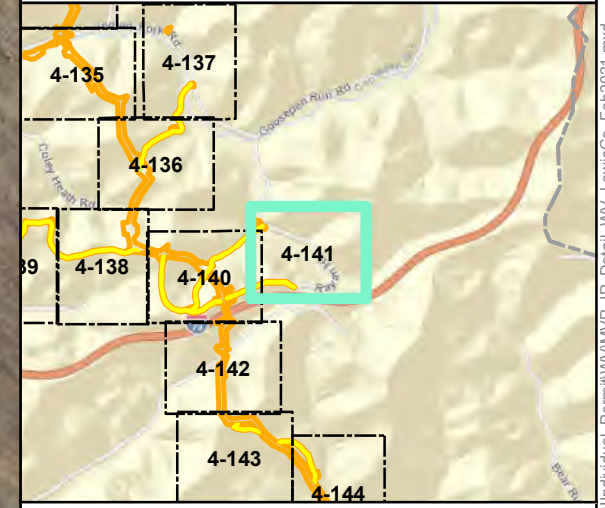
Legend

⊙ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
▭ Access Road Temporary LOD	- · - · - Perennial
▭ Access Road Permanent LOD	— Ephemeral
▭ Permanent Facility	▨ Pond
▭ Limit of Disturbance	Wetland
▭ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-141
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\0101s2\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



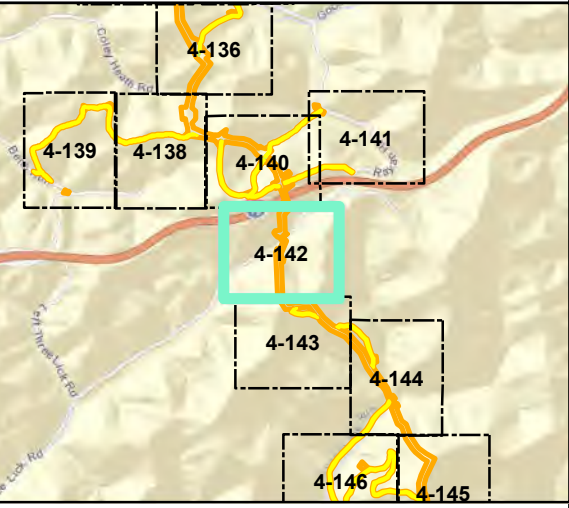
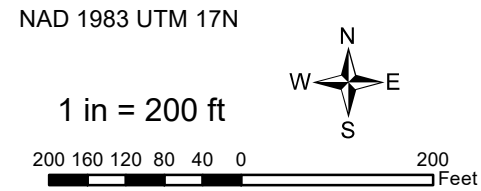
W-H96 crossing complete (Table 10).
Temporary crossing structure impact (Table 3).

S-CV3 crossing complete (Table 10).
Temporary crossing structure impact (Table 2).
W-H95 crossing complete (Table 10).
Temporary crossing structure impact (Table 3).

S-CV5 crossing complete (Table 10).

- Legend**
- Milepost
 - - - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-142
Lewis County, West Virginia

February 2021

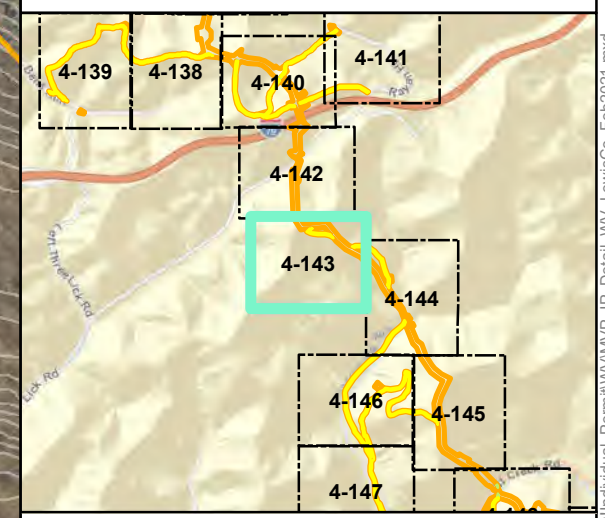
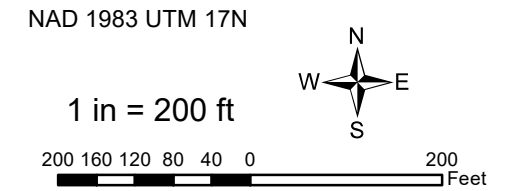
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-143
Lewis County, West Virginia
February 2021

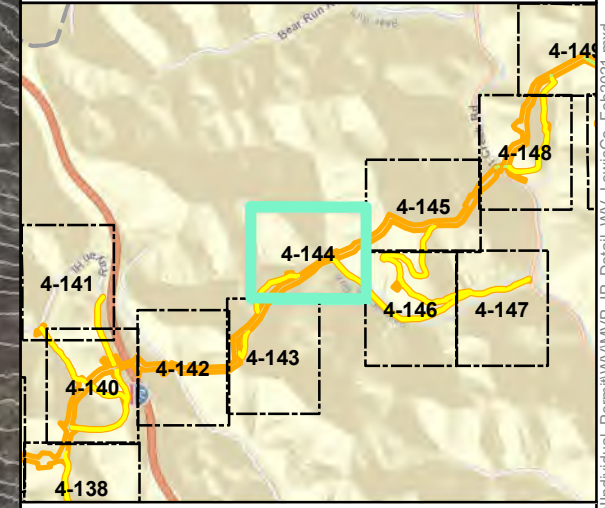
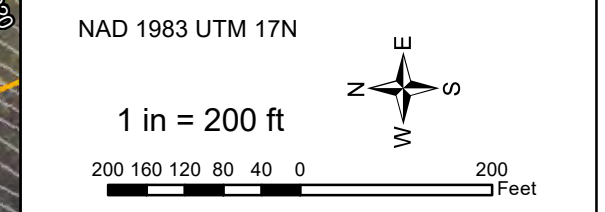
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-144
Lewis County, West Virginia

February 2021

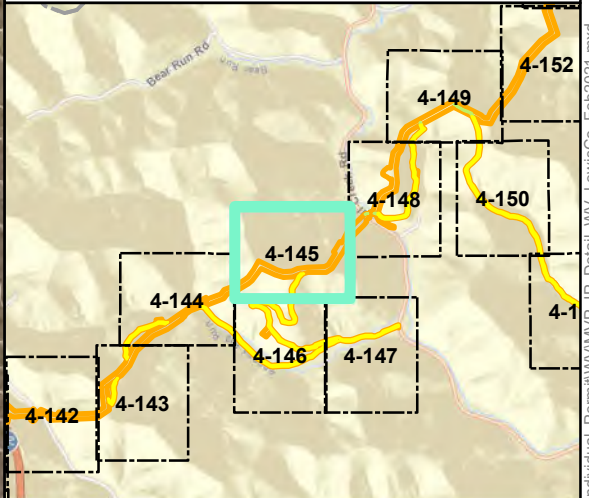
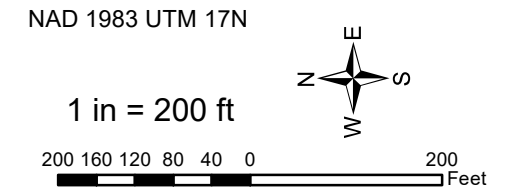
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - Pond
 - Wetland
 - Palustrine Forested
 - Palustrine Emergent
 - Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-145
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- - - Perennial
□ Access Road Permanent LOD	- - - Ephemeral
□ Permanent Facility	▨ Pond
□ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet

Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-146
Lewis County, West Virginia

February 2021

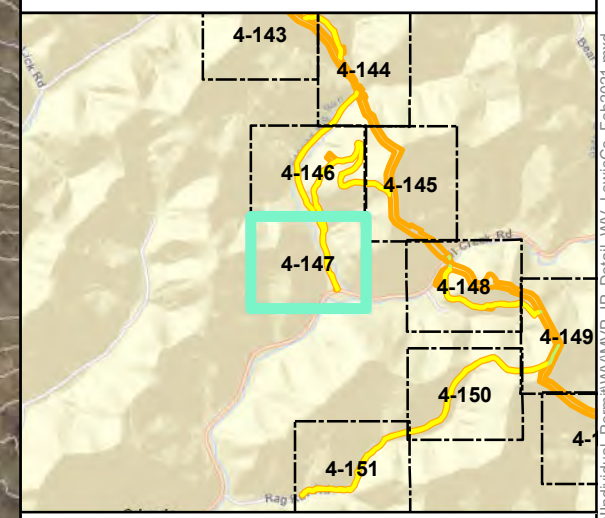
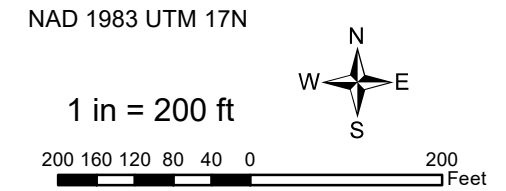
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- ### Legend
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| □ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



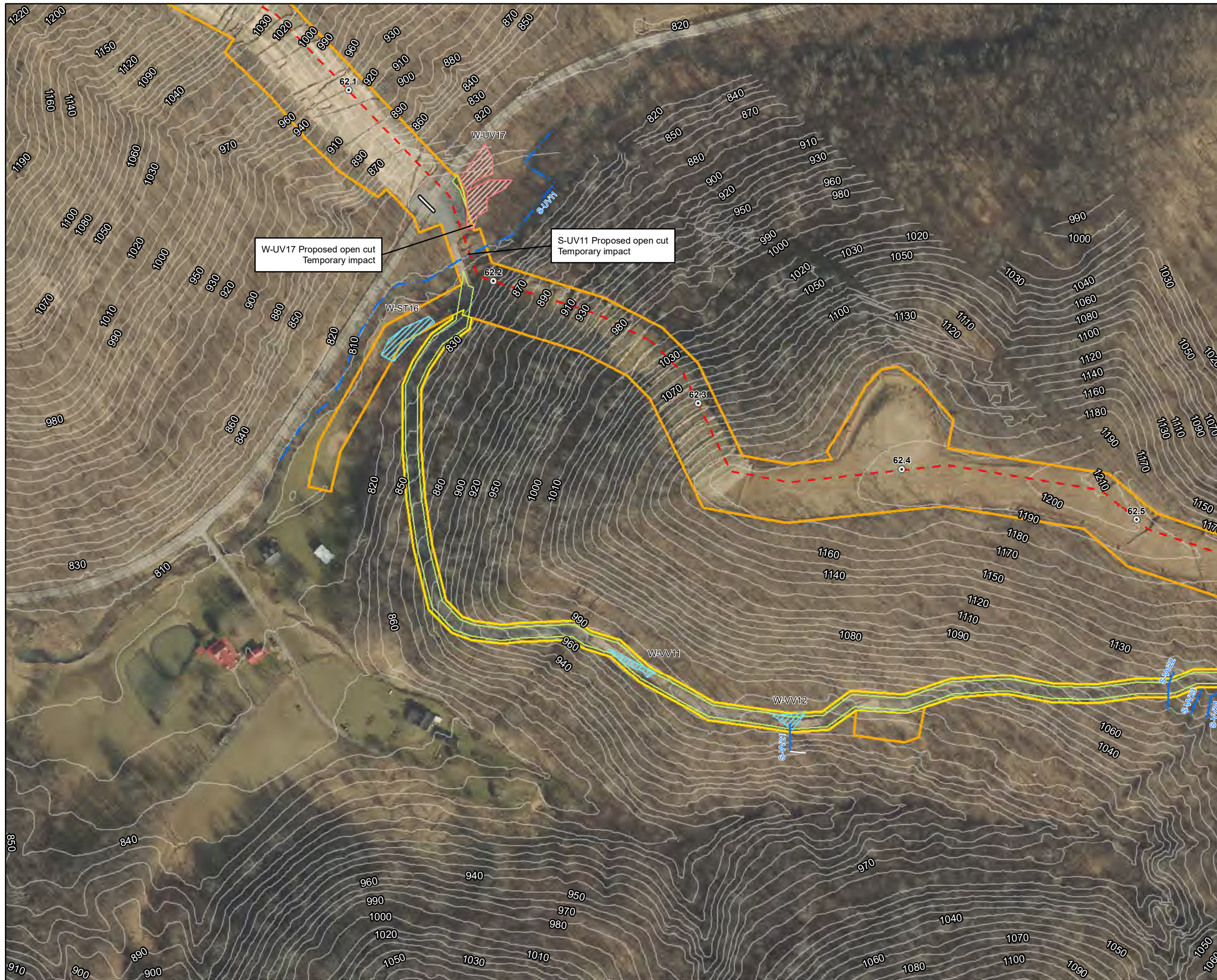
Detail Map
Individual Permit Application

Figure 4-147
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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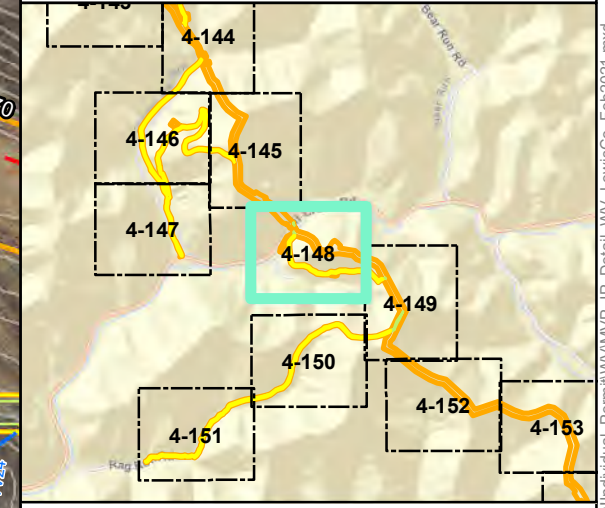
Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
▭ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-148
Lewis County, West Virginia

February 2021

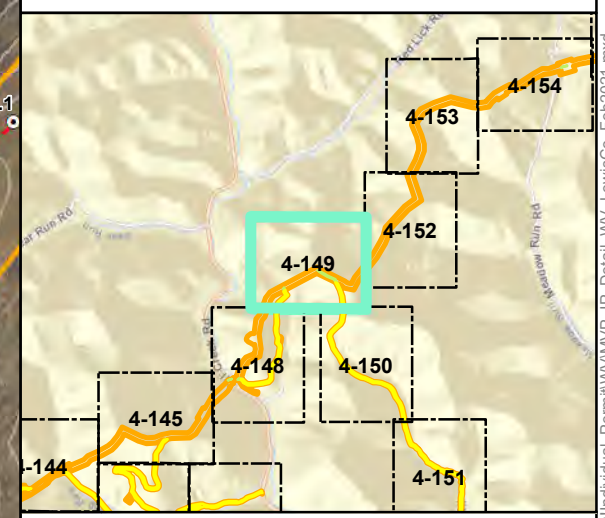
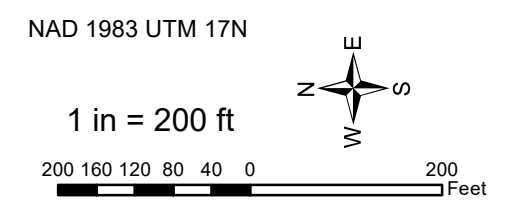
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-149
Lewis County, West Virginia

February 2021

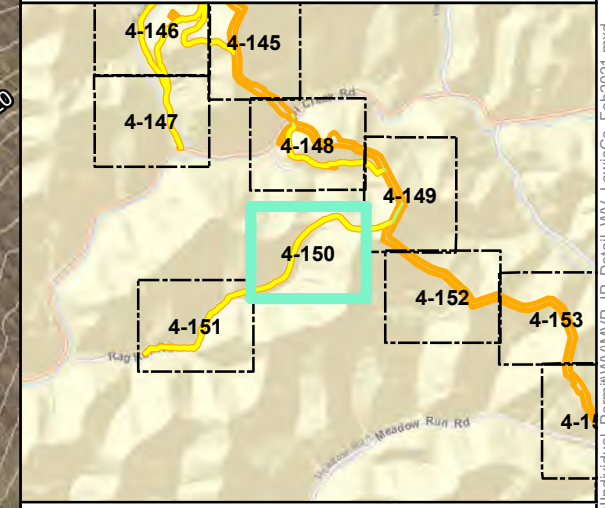
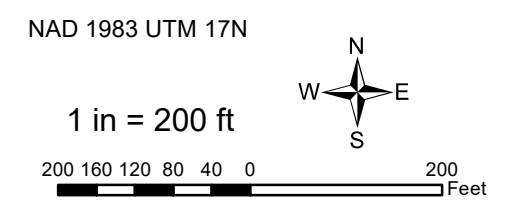
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-150
Lewis County, West Virginia

February 2021

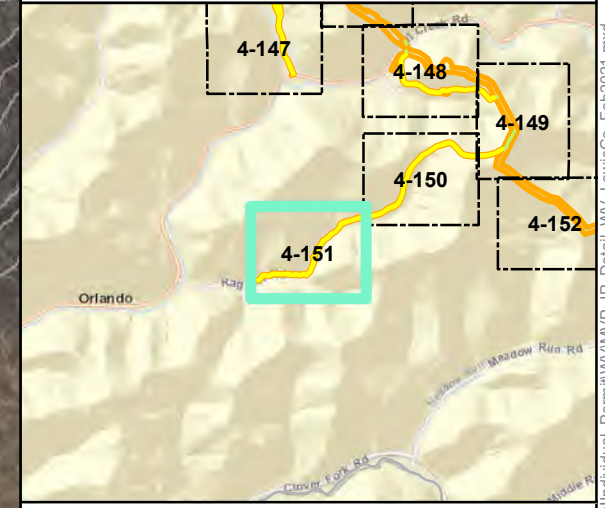
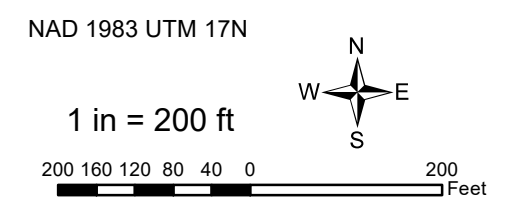
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-151
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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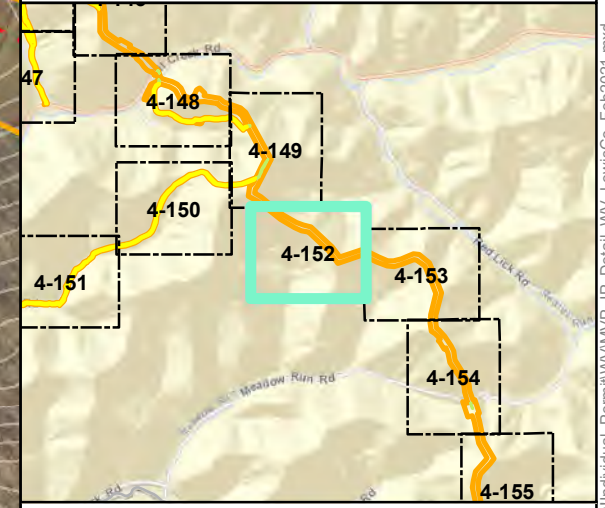
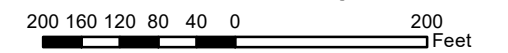
Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| □ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

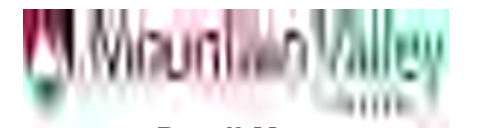
Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-152
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



Legend

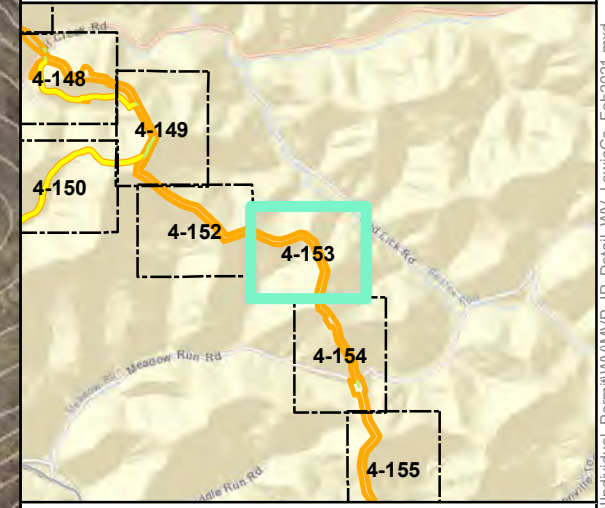
○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
□ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-153
Lewis County, West Virginia

February 2021

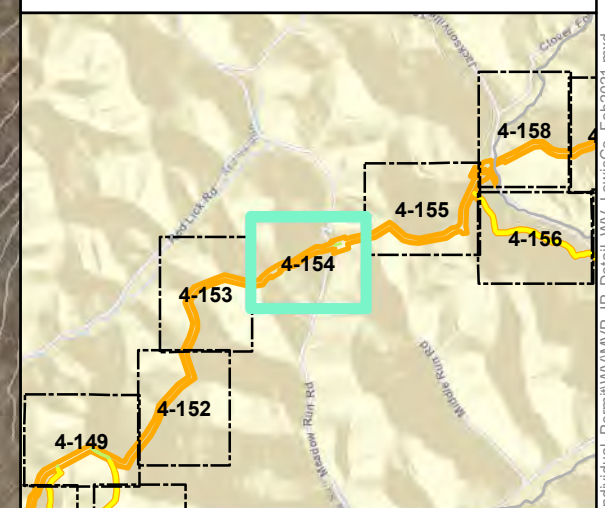
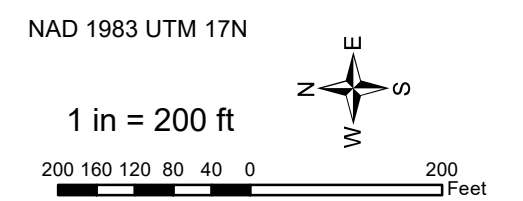
Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
 - - - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - ▬ Culvert
 - Stream
 - Intermittent
 - Perennial
 - Ephemeral
 - ▨ Pond
 - ▨ Wetland
 - ▨ Palustrine Forested
 - ▨ Palustrine Emergent
 - ▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



Detail Map
Individual Permit Application

Figure 4-154
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCO_Feb2021.mxd



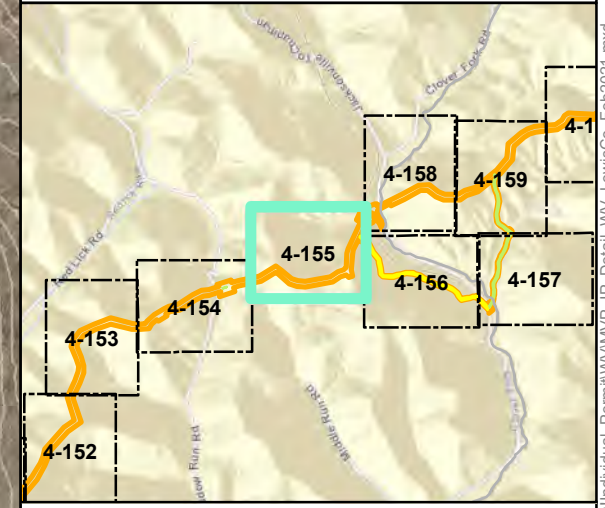
Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
▭ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-155
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_LewisCo_Feb2021.mxd



Legend

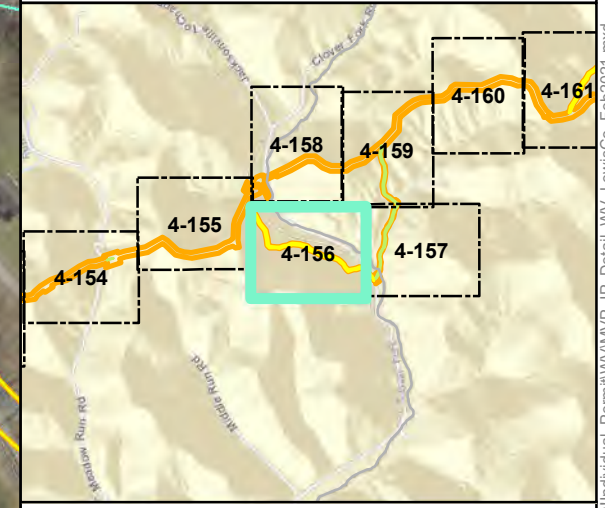
⊙ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
▭ Access Road Temporary LOD	- · - · - Perennial
▭ Access Road Permanent LOD	— Ephemeral
▭ Permanent Facility	▨ Pond
▭ Limit of Disturbance	Wetland
▭ Bore Pit	▨ Palustrine Forested
▭ Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.

NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-156
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

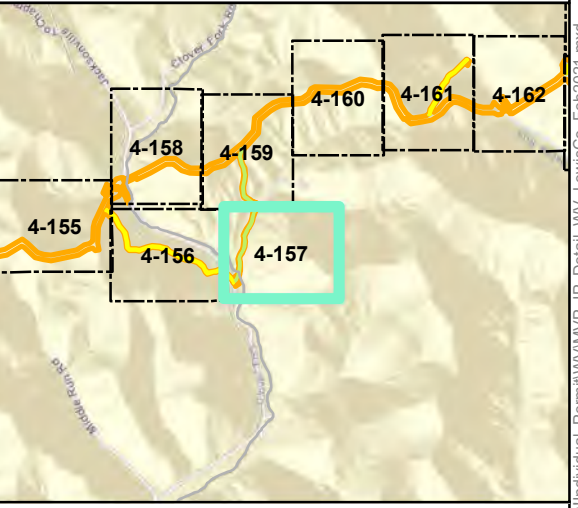
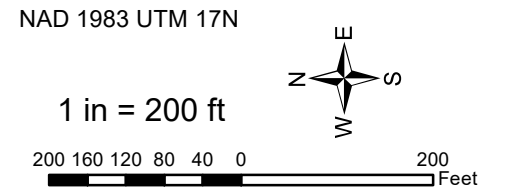
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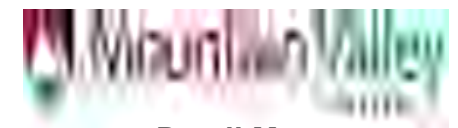
Legend

- | | |
|-----------------------------|--------------------------|
| ⊙ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
| ■ Bore Pit | ▨ Palustrine Forested |
| — Culvert | ▨ Palustrine Emergent |
| | ▨ Palustrine Scrub-Shrub |

Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-157
Lewis County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2020
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\010152\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV_IP_Detail\WV_LewisCo_Feb2021.mxd