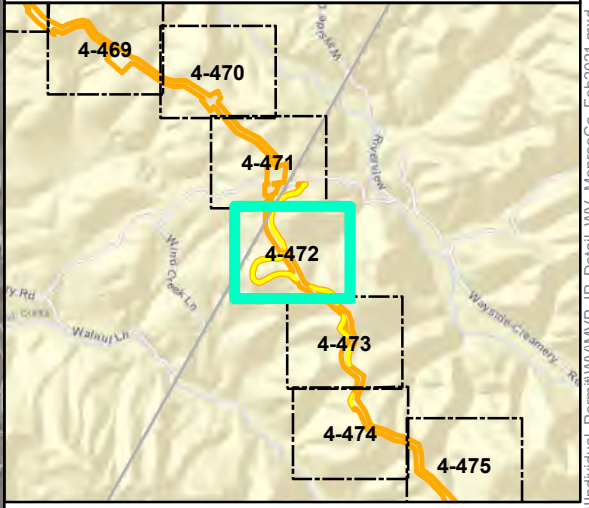
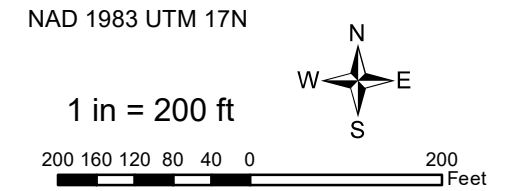


Legend

- | | |
|-----------------------------|--------------------------|
| ○ 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



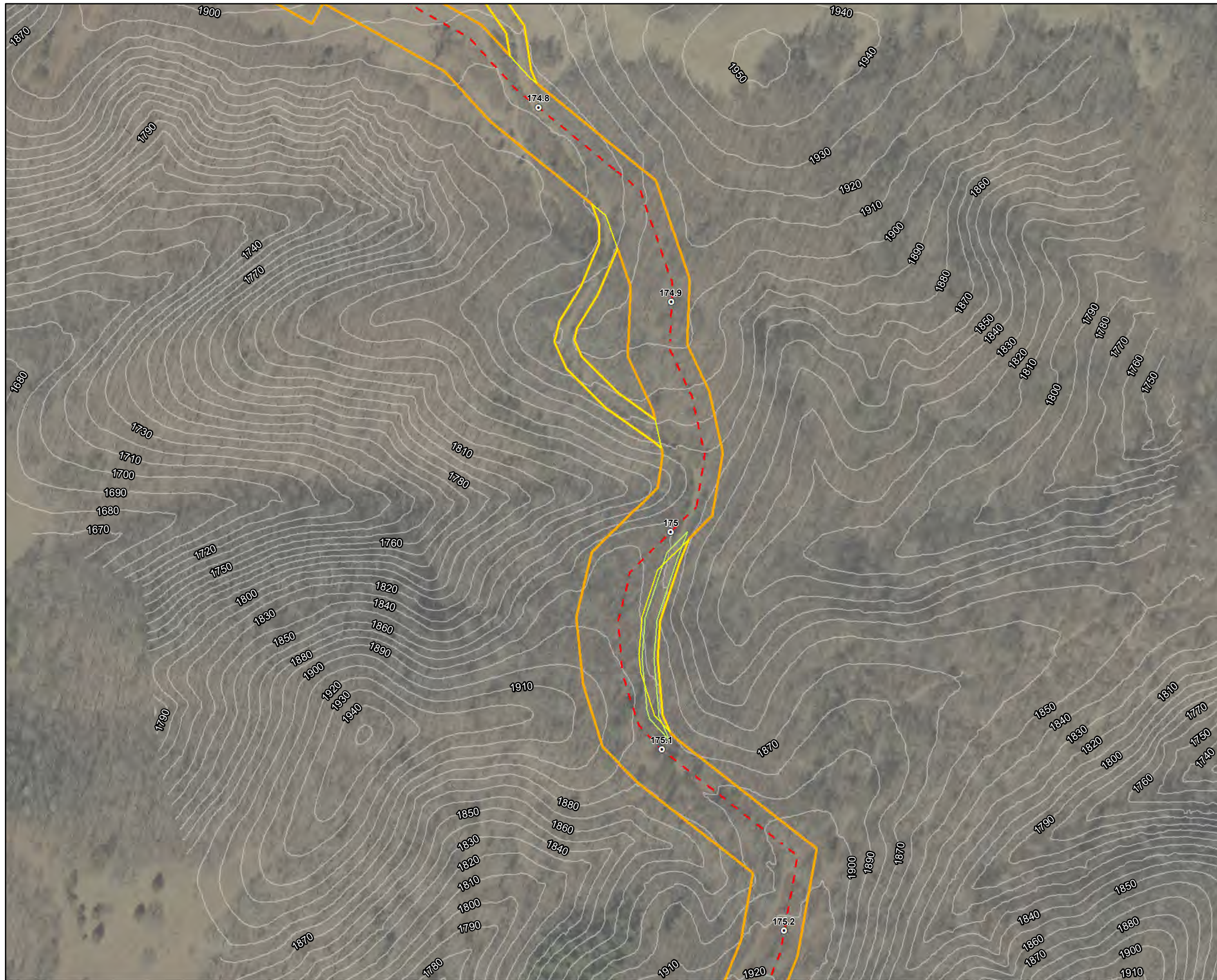
**Detail Map
Individual Permit Application**

Figure 4-472
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

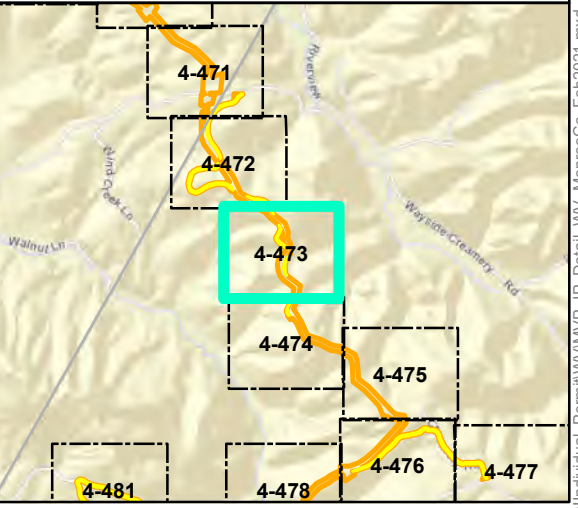
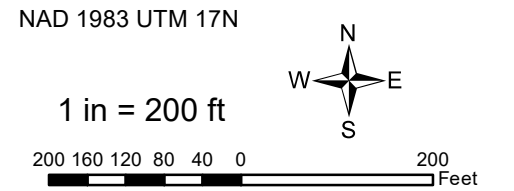
Document Path: P:\GIS\2021\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV_MonroeCo_Feb2021.mxd



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 4-473
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

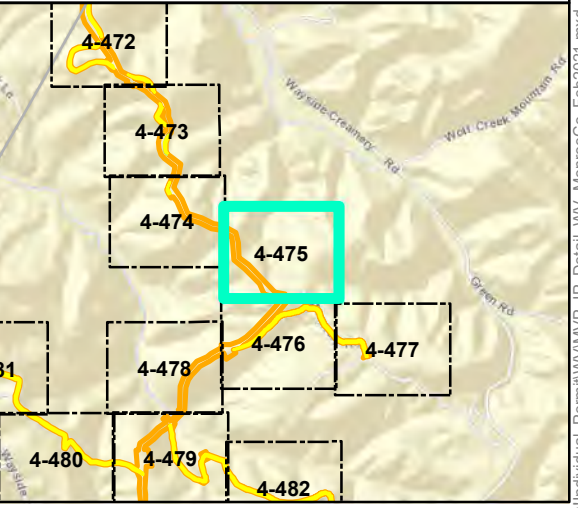
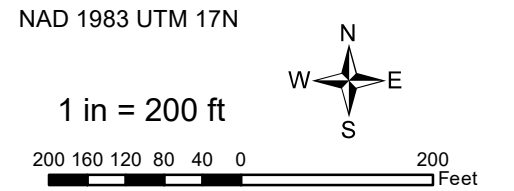
Document Path: P:\GIS\01\0162\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



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

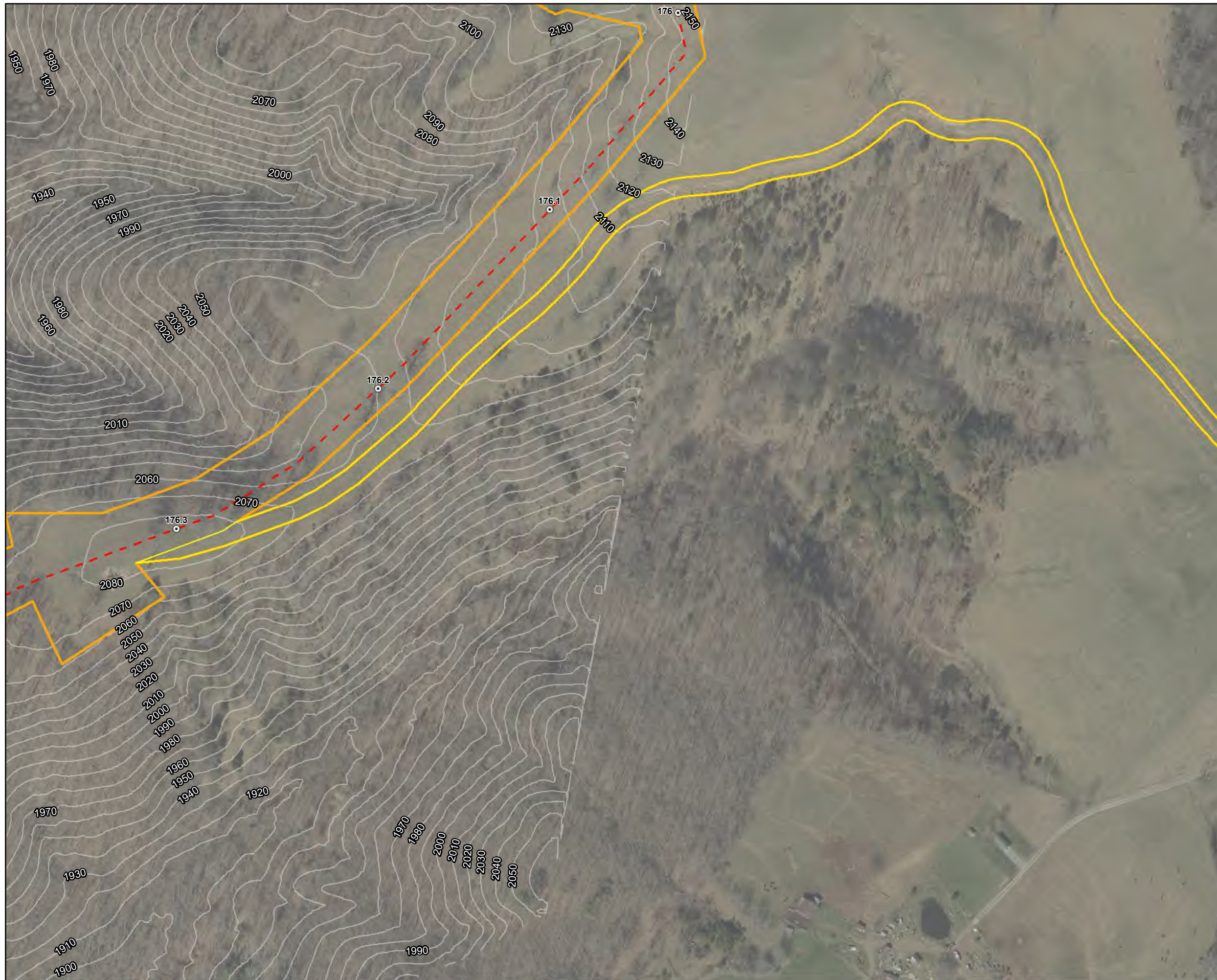


**Detail Map
Individual Permit Application**

Figure 4-475
Monroe County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: PGH \tts01\fs2\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



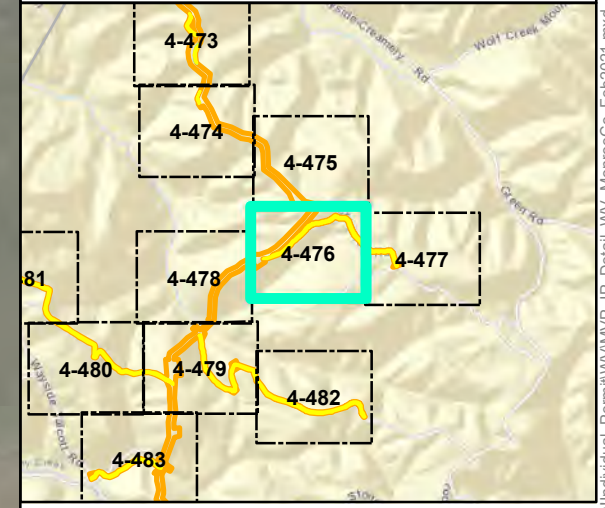
Legend

○ 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 4-476
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV_MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



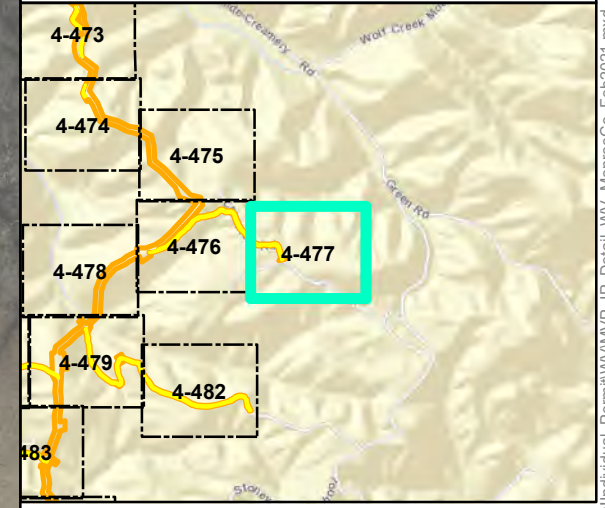
Legend

⊙ 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 4-477
Monroe County, West Virginia

February 2021

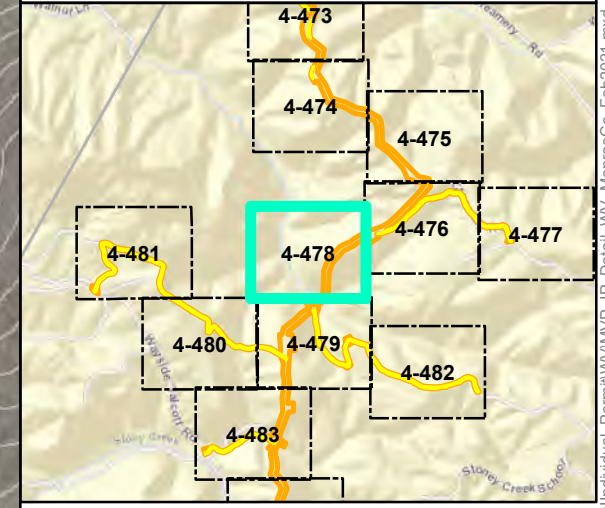
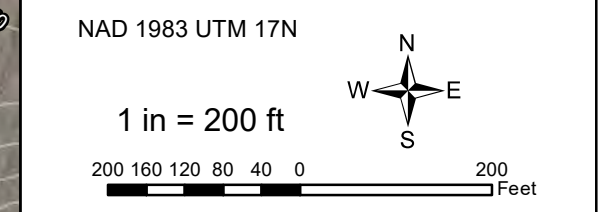
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: PGH \tts01\fs2\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_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

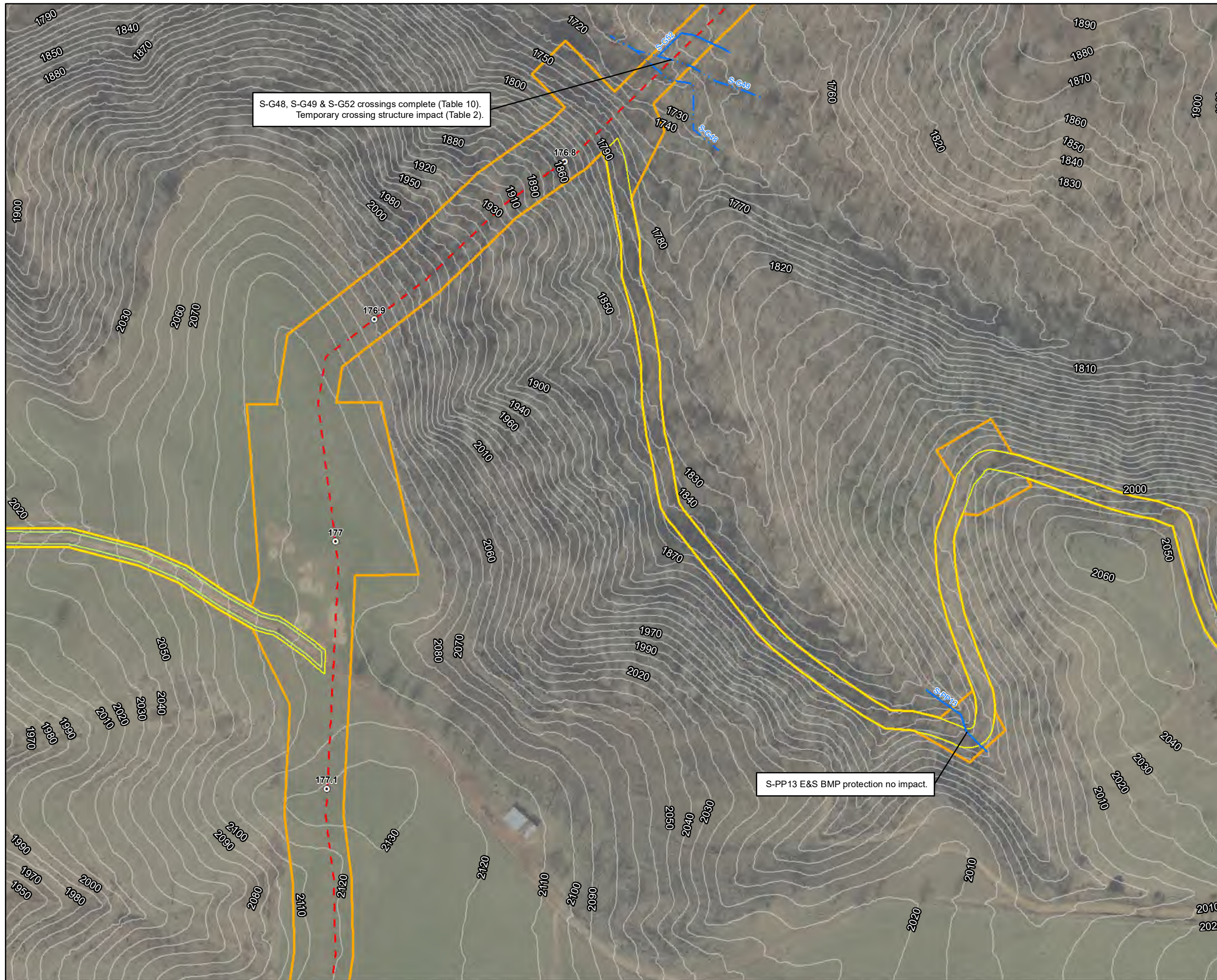
Detail Map
Individual Permit Application

Figure 4-478
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd

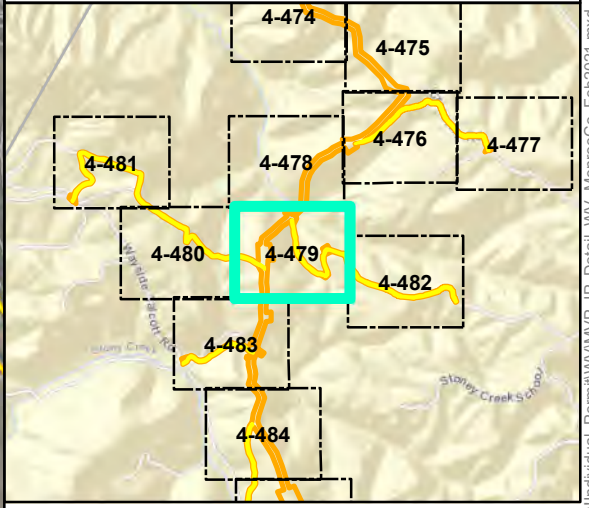
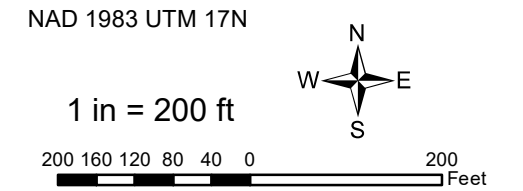


S-G48, S-G49 & S-G52 crossings complete (Table 10).
Temporary crossing structure impact (Table 2).

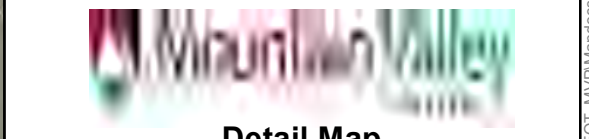
S-PP13 E&S BMP protection no impact.

- 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 4-479
Monroe County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



Legend

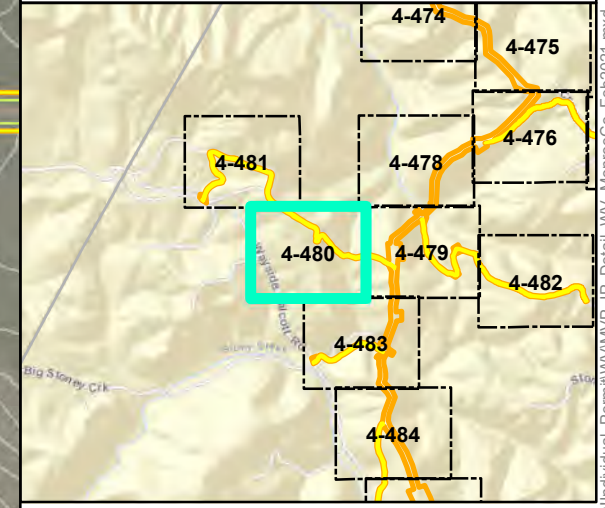
○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
□ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
	▨ Palustrine Scrub-Shrub

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 4-480
Monroe County, West Virginia

February 2021

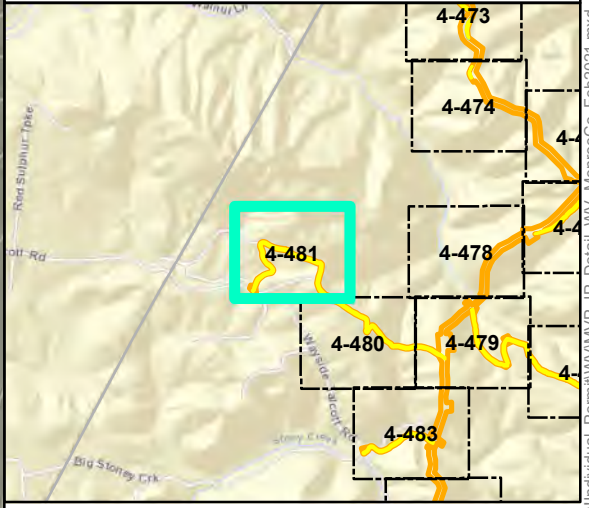
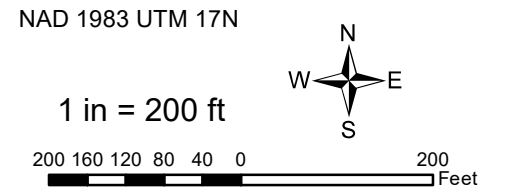
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV_MVP_Detail\WV_MonroeCo_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

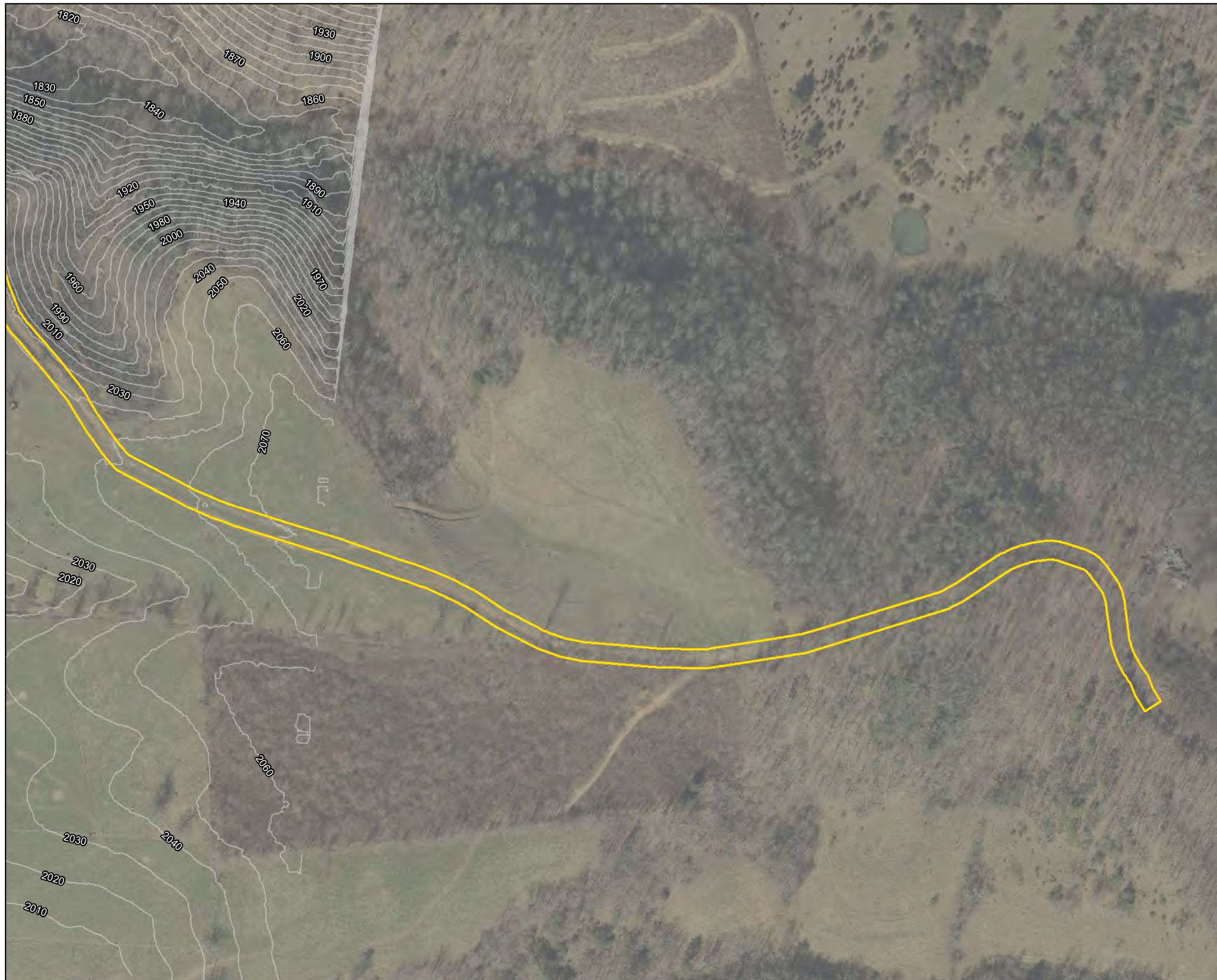
Detail Map
Individual Permit Application

Figure 4-481
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

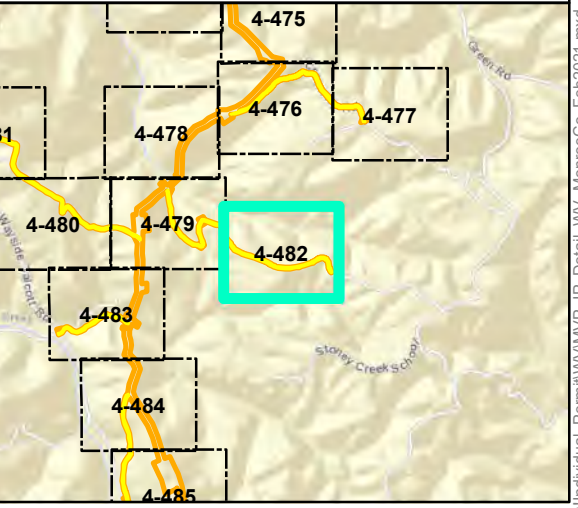
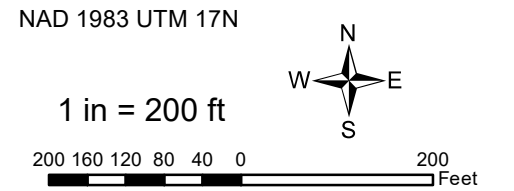
Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



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



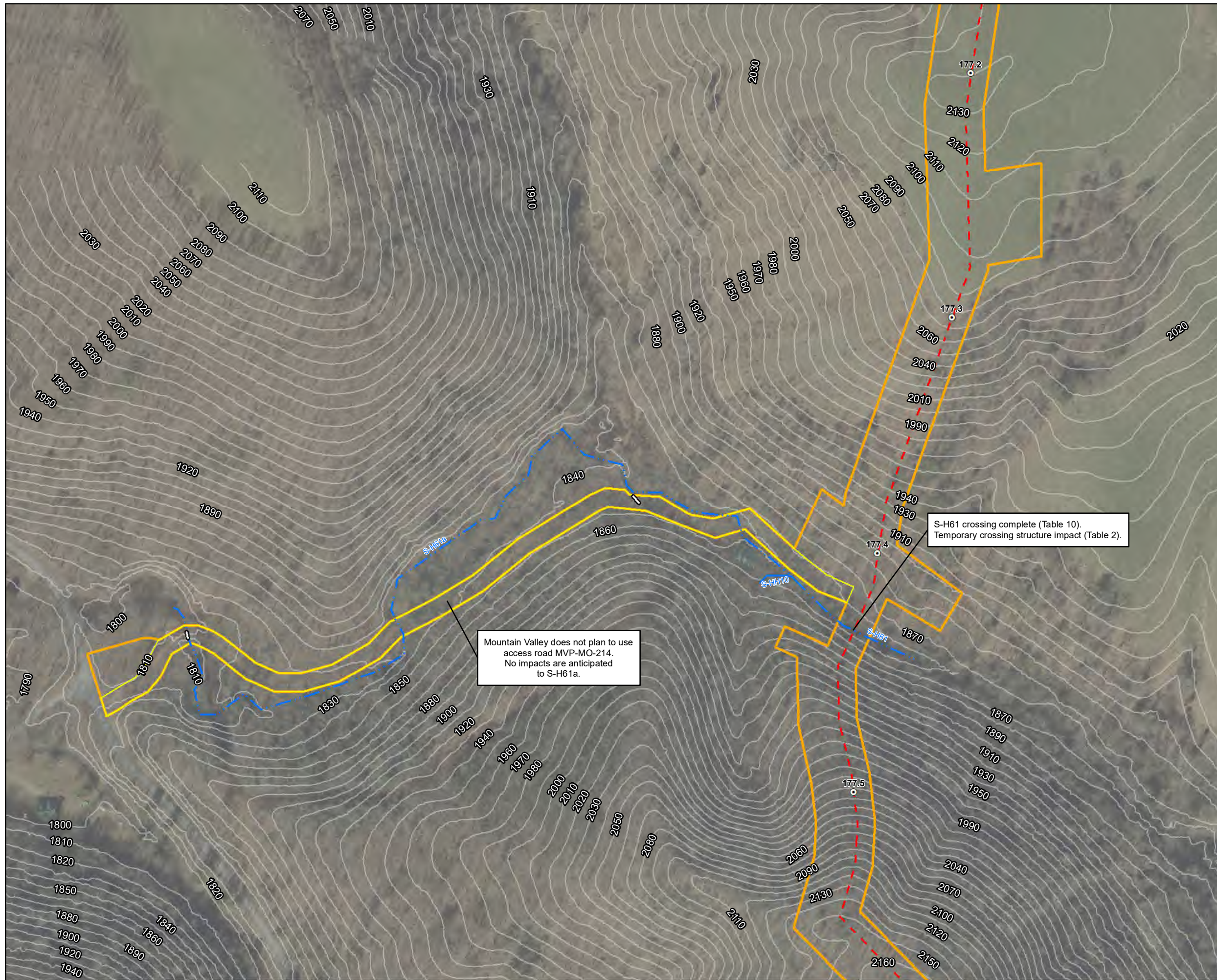
**Detail Map
Individual Permit Application**

Figure 4-482
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

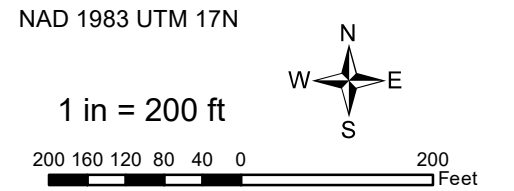
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Legend

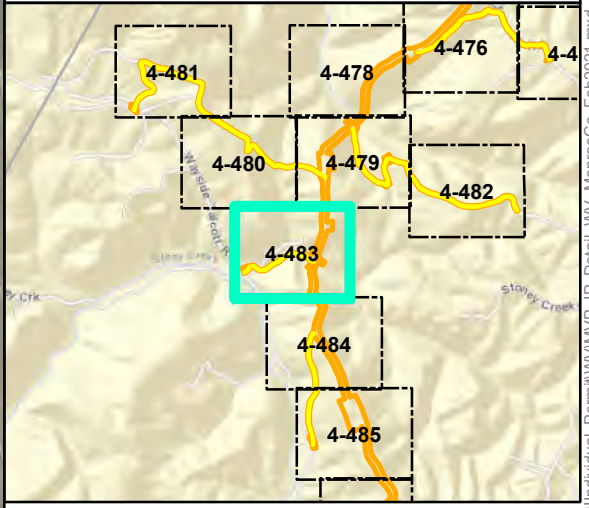
- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | 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.



S-H61 crossing complete (Table 10).
Temporary crossing structure impact (Table 2).

Mountain Valley does not plan to use access road MVP-MO-214. No impacts are anticipated to S-H61a.



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-483
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

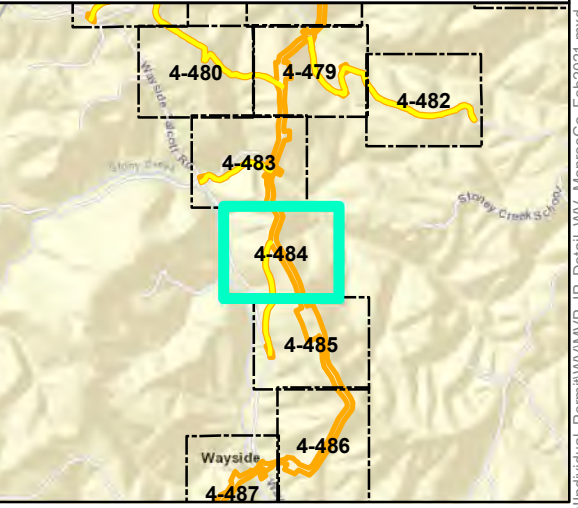
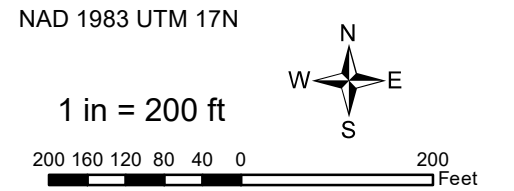
Document Path: P:\GIS\2021\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV_MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



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



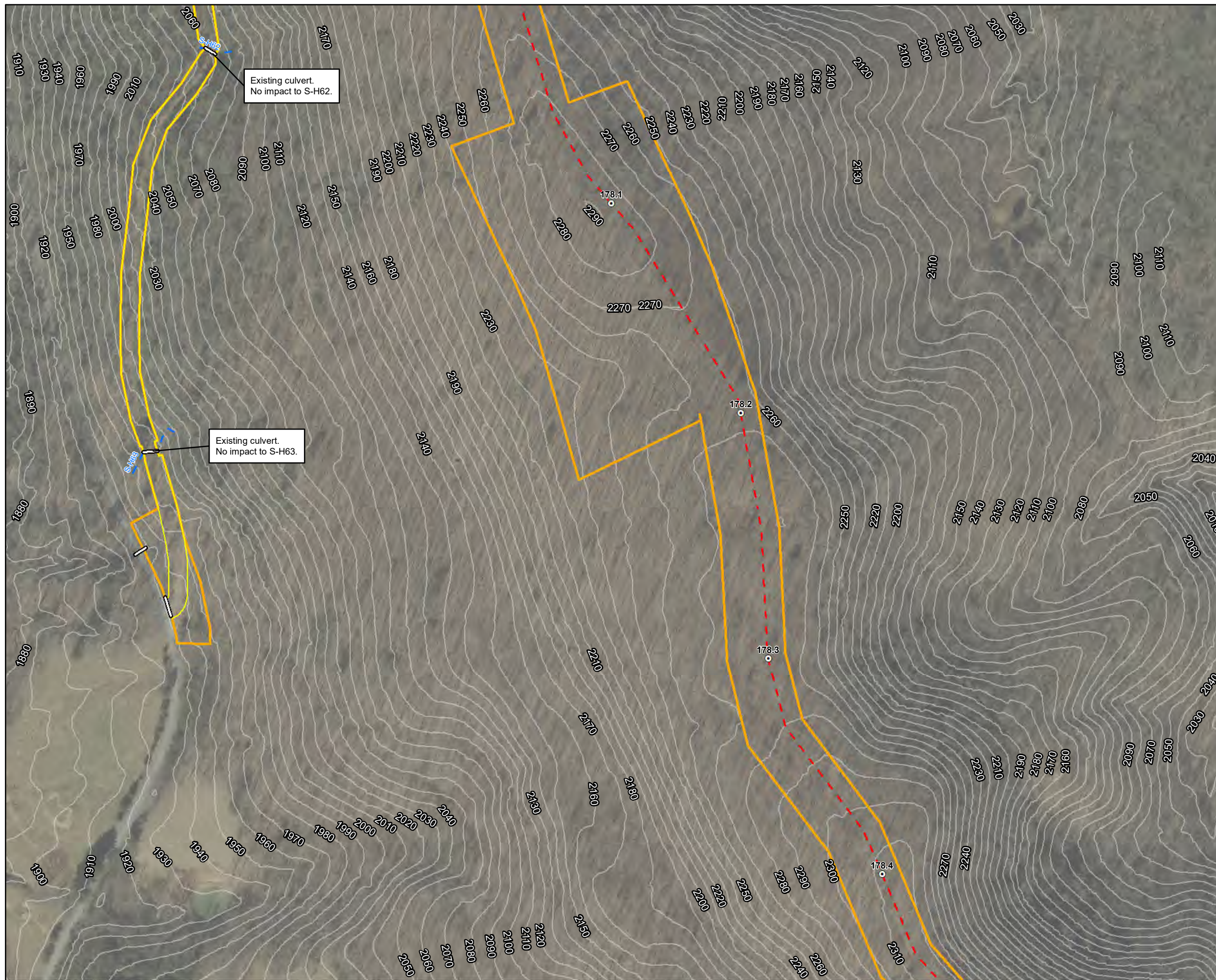
**Detail Map
Individual Permit Application**

Figure 4-484
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\2021\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail_WV_MonroeCo_Feb2021.mxd

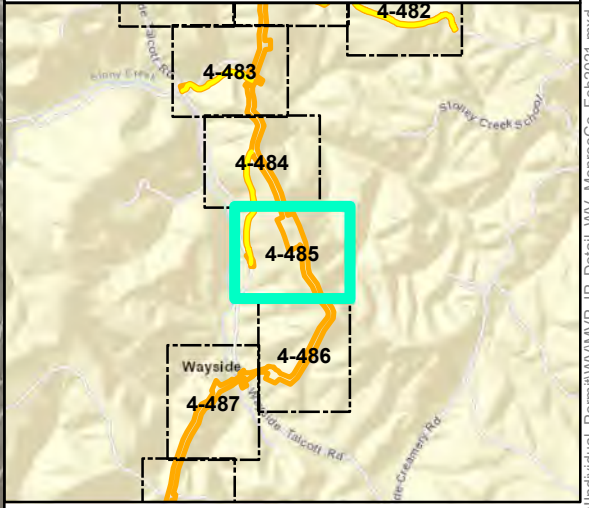
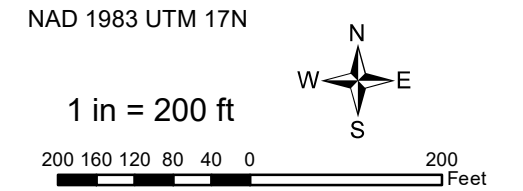


Existing culvert.
No impact to S-H62.

Existing culvert.
No impact to S-H63.

- 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 4-485
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\012\GIS\012\GIS\EQT_MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



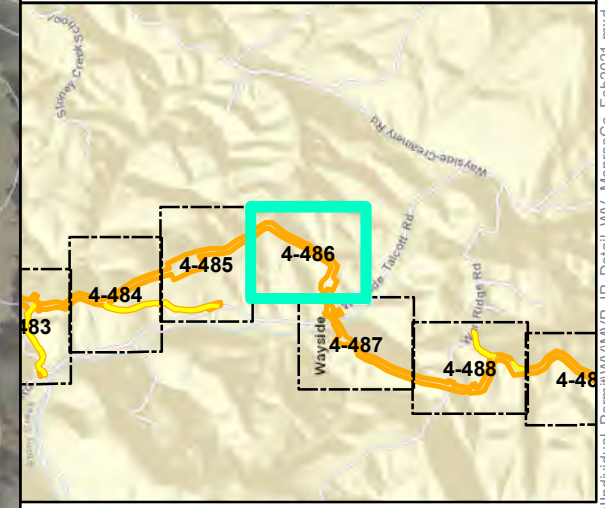
Legend

○ 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

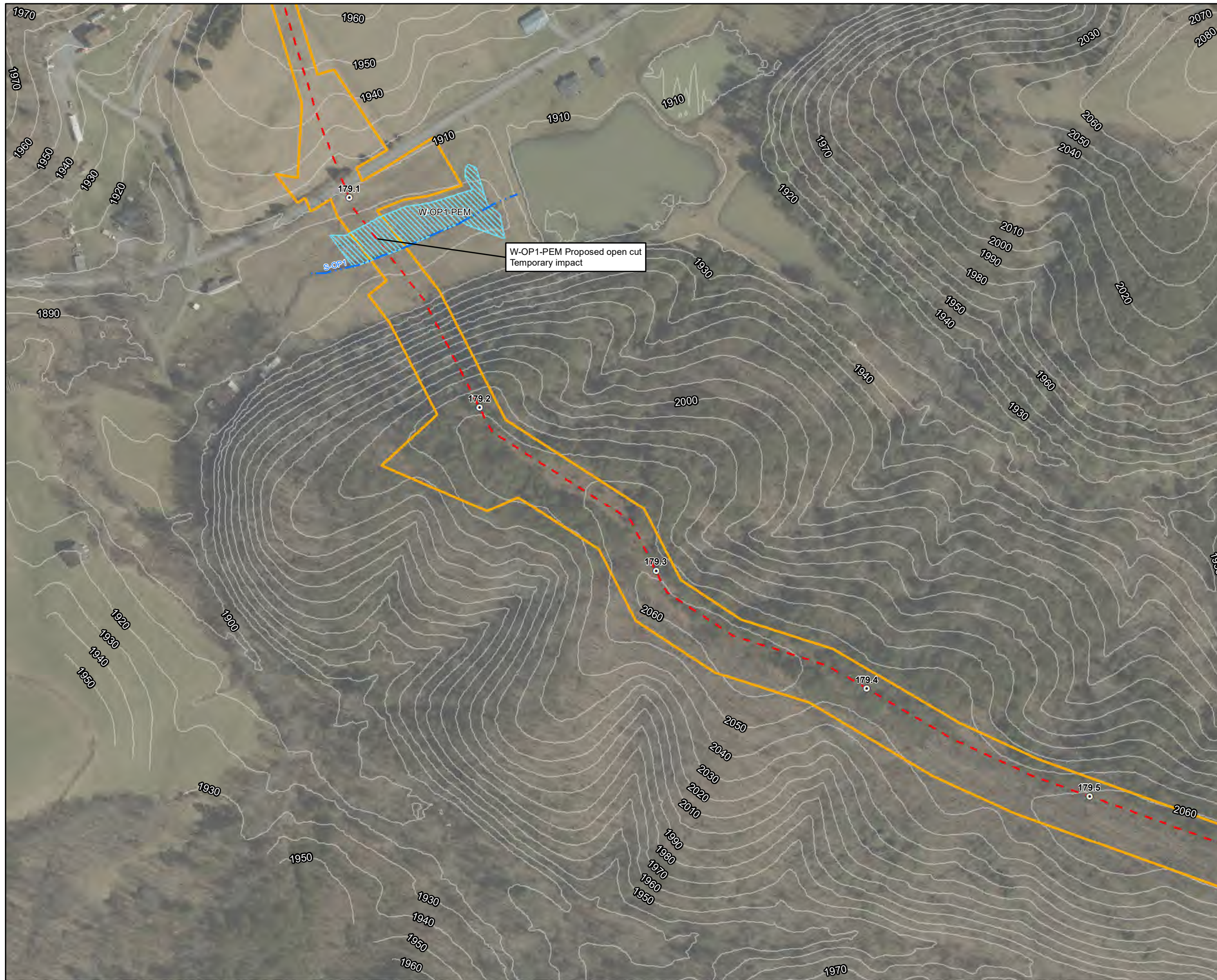
Detail Map
Individual Permit Application

Figure 4-486
Monroe County, West Virginia

February 2021

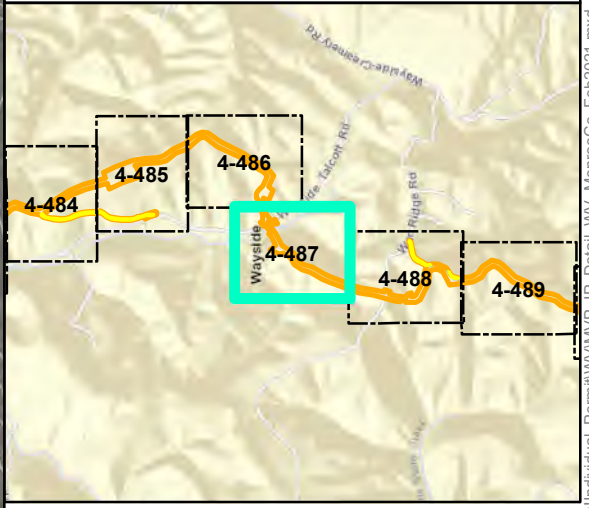
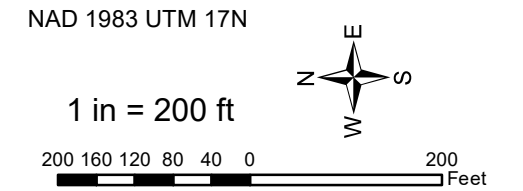
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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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

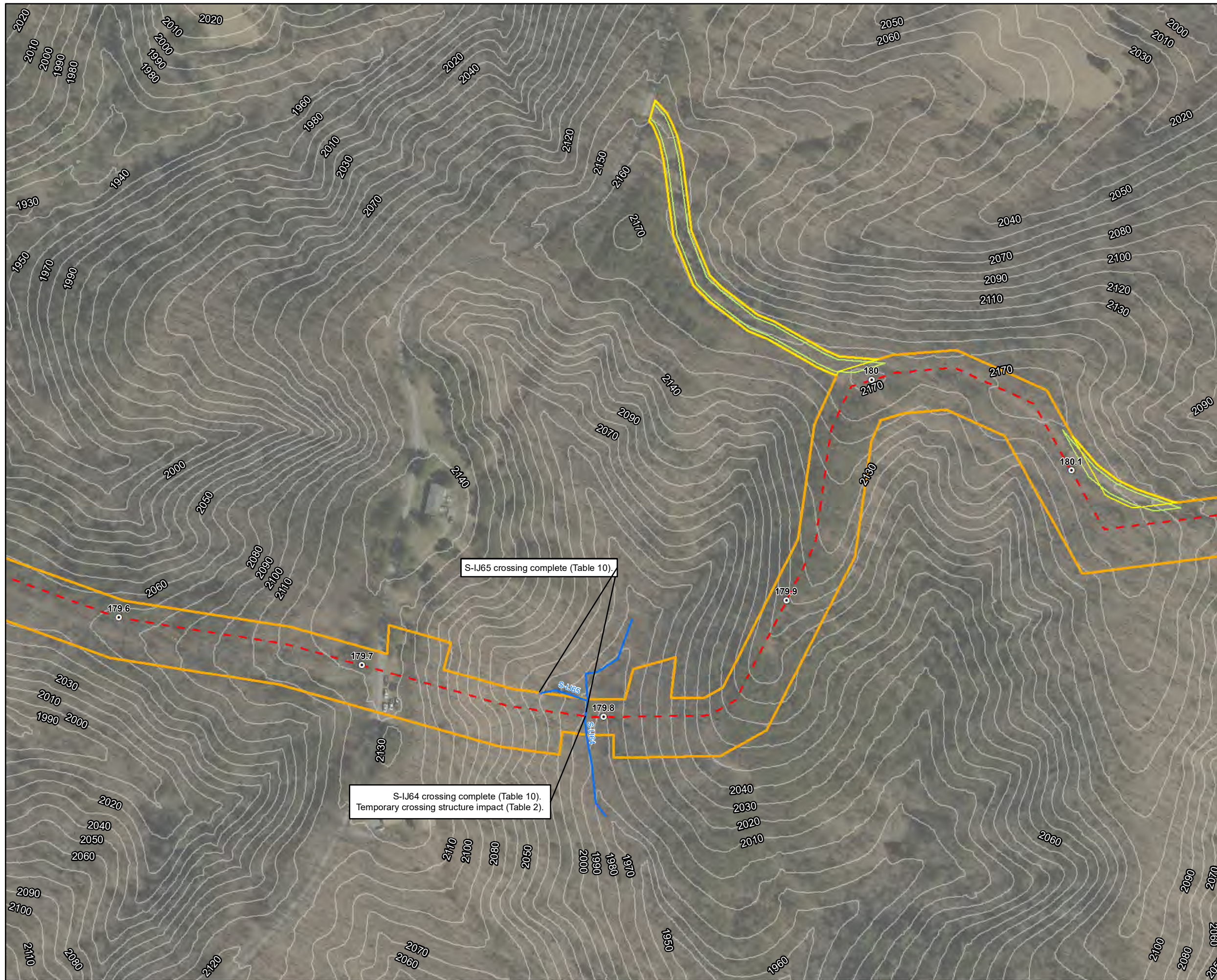
Detail Map
Individual Permit Application

Figure 4-487
Monroe County, West Virginia

February 2021

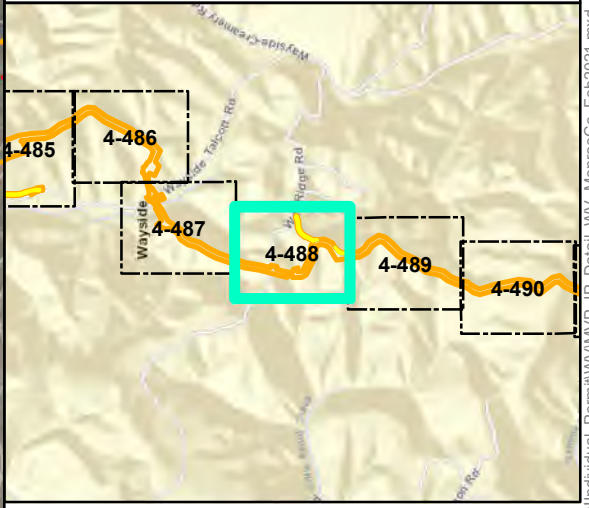
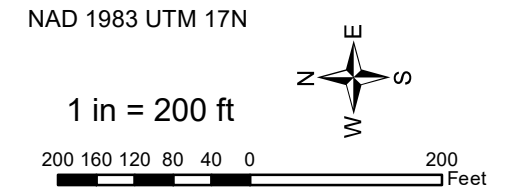
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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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.



S-IJ65 crossing complete (Table 10).

S-IJ64 crossing complete (Table 10).
Temporary crossing structure impact (Table 2).

Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-488
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\2021\GIS\EQT\IMVP\Mapdocs\Wetlands\Individual_Permit\WV_MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



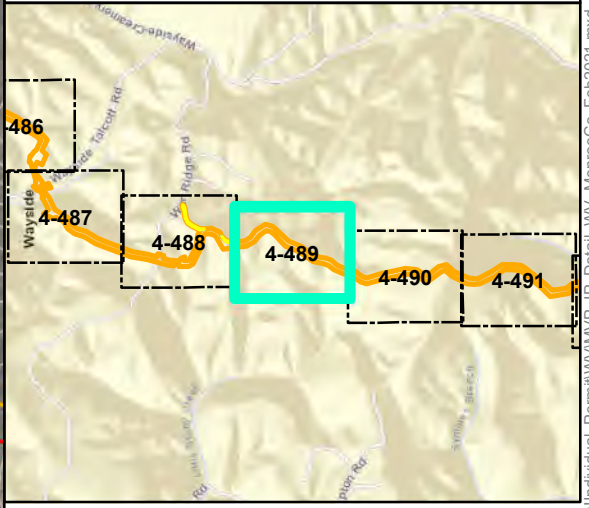
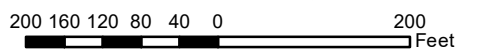
Legend

- | | |
|-----------------------------|--------------------------|
| ○ 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



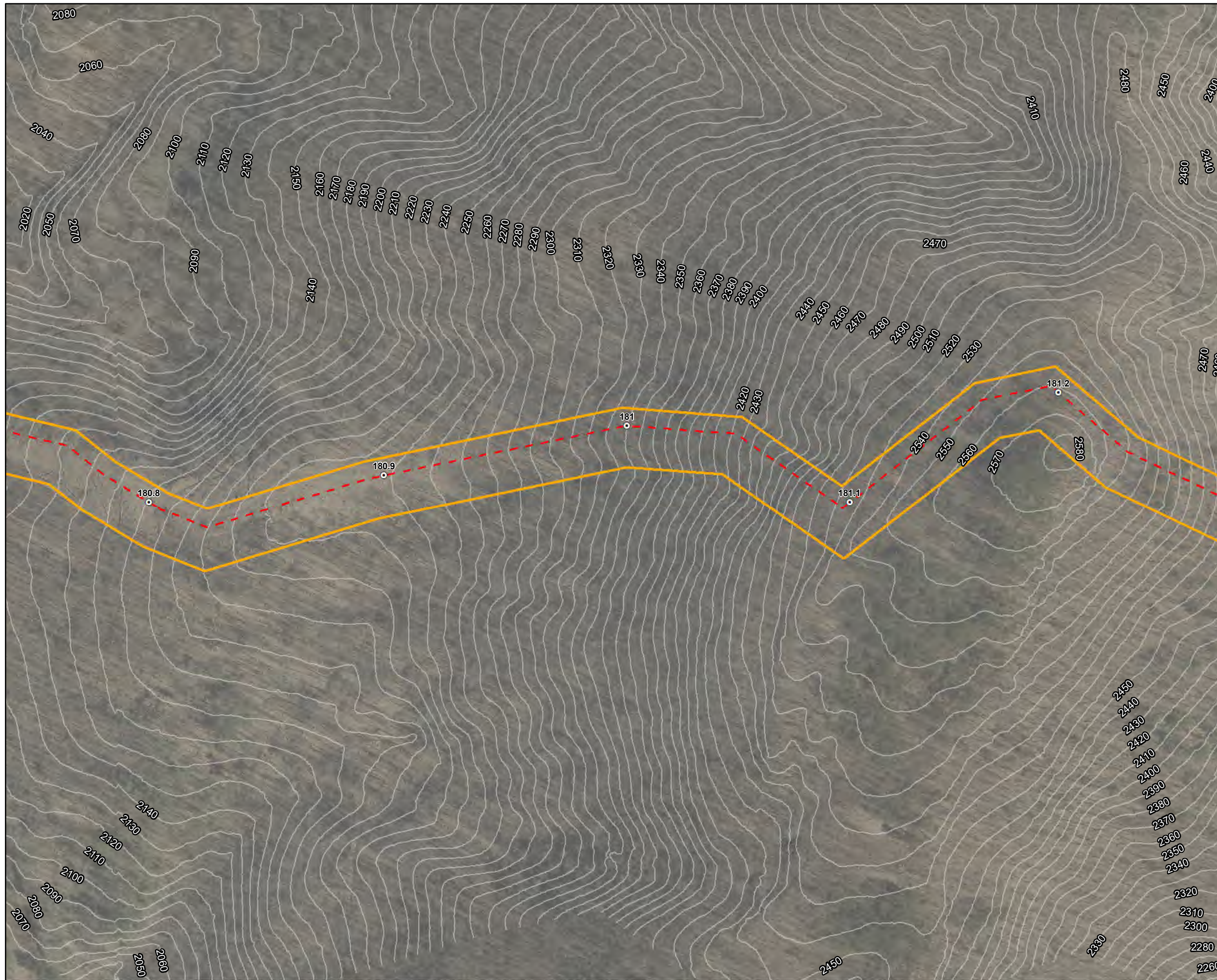
**Detail Map
Individual Permit Application**

Figure 4-489
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



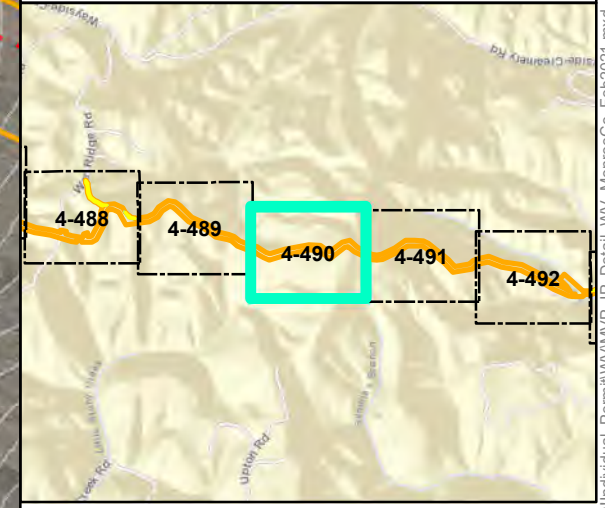
Legend

○ 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

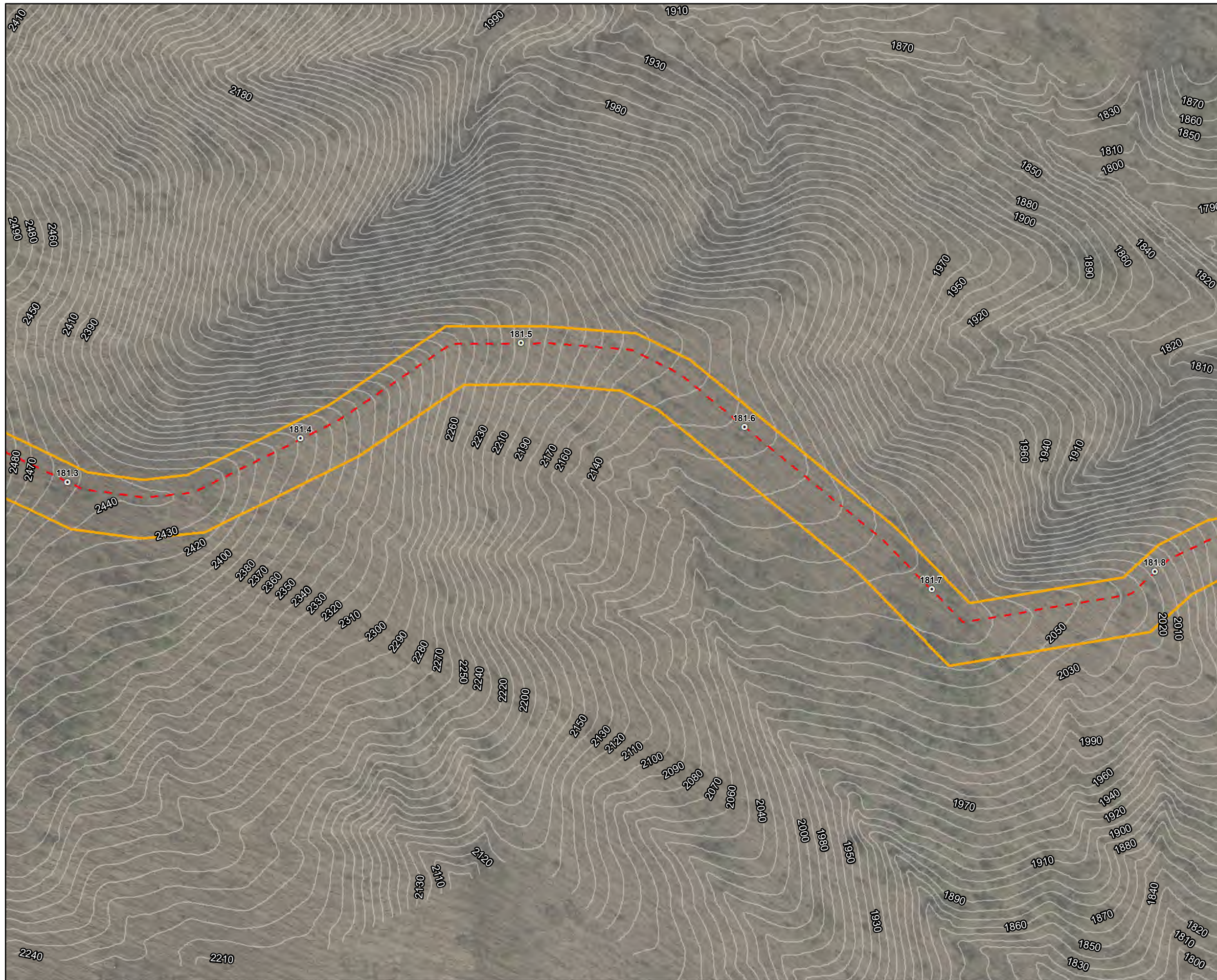
Detail Map Individual Permit Application

Figure 4-490
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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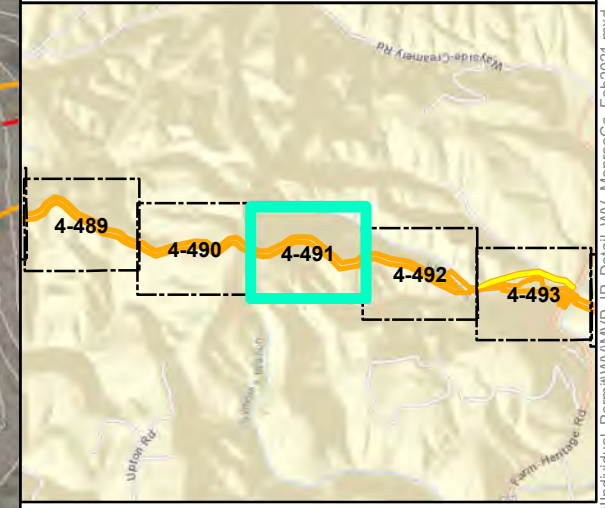
Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
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	▨ 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

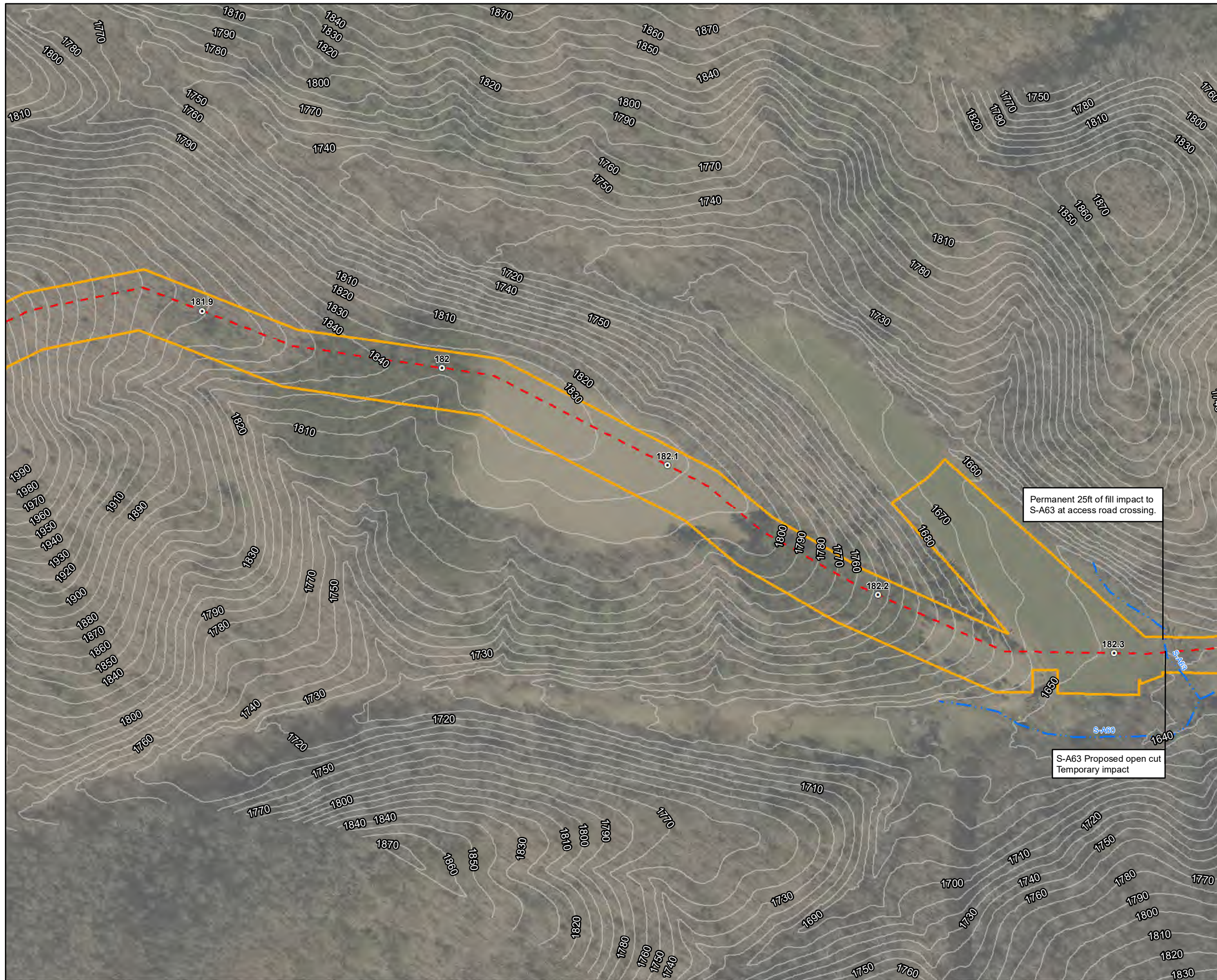
Detail Map
Individual Permit Application

Figure 4-491
Monroe County, West Virginia

February 2021

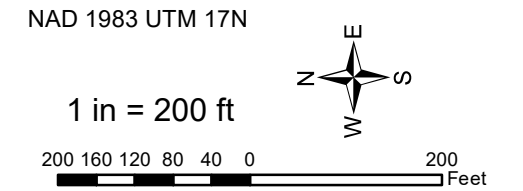
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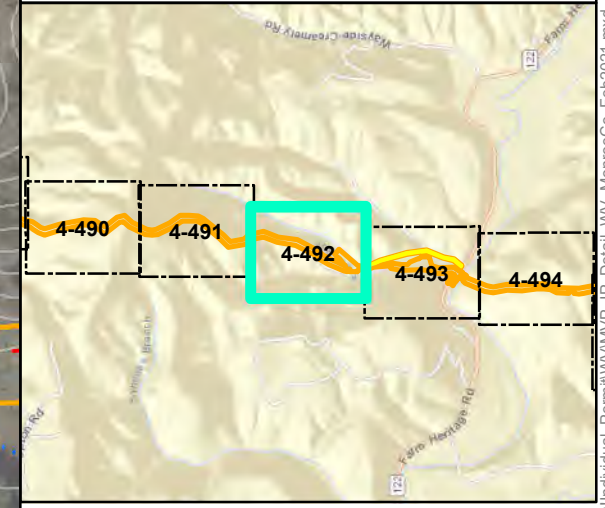
- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
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 - ▨ Palustrine Scrub-Shrub

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



Permanent 25ft of fill impact to S-A63 at access road crossing.

S-A63 Proposed open cut Temporary impact



Mountain Valley Pipeline Project

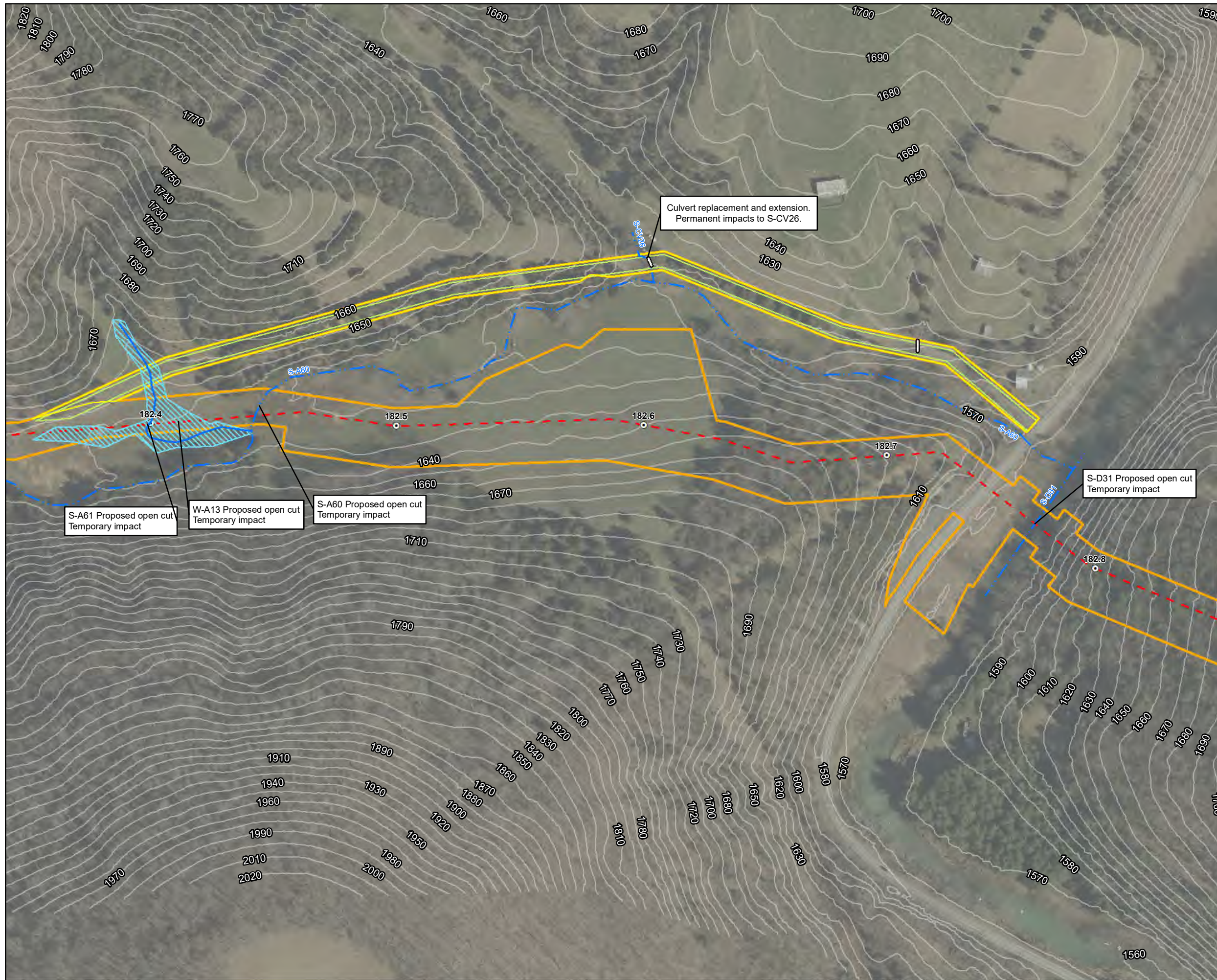
Detail Map
Individual Permit Application

Figure 4-492
Monroe County, West Virginia

February 2021

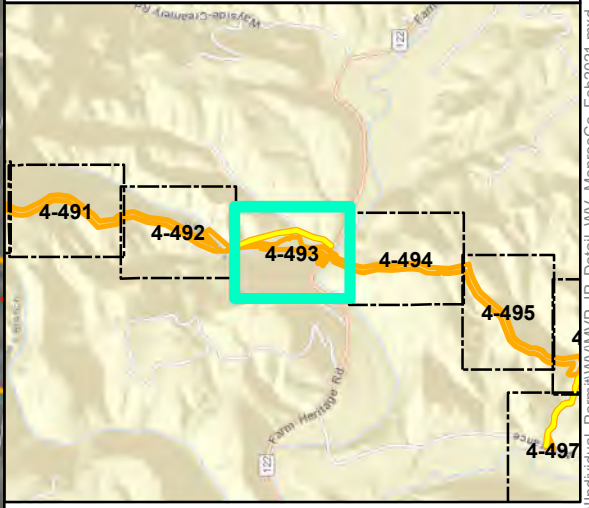
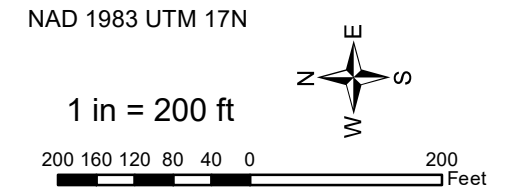
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
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 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - ▬ Culvert
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 - ▨ 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 4-493
Monroe County, West Virginia

February 2021

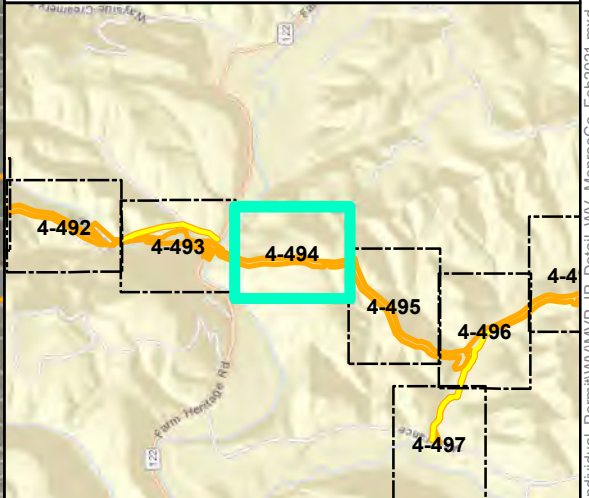
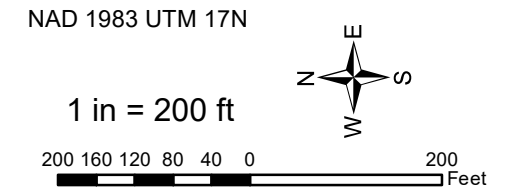
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: PGH \tts01\062\GIS\GIS\EQT_MVP\Mapdocs\Wetlands\Individual_Permit\WV_MVP_IP_Detail_WV_MonroeCo_Feb2021.mxd



- Legend**
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| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · - Perennial |
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| | ▨ Palustrine Scrub-Shrub |

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



S-D29 crossing complete (Table 10).
Temporary crossing structure impact (Table 2).

Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-494
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

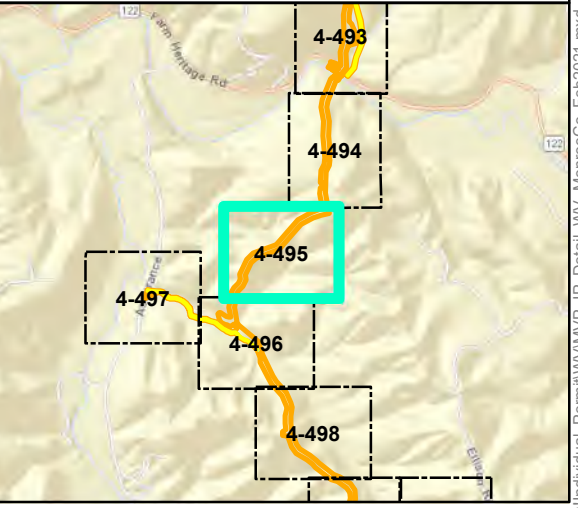
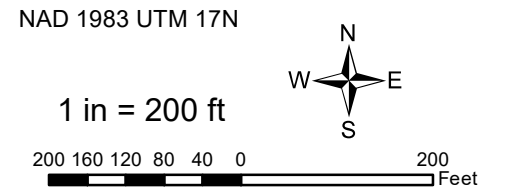
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Legend

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| ○ Milepost | Stream |
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| □ Access Road Temporary LOD | - · - · - Perennial |
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| — 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



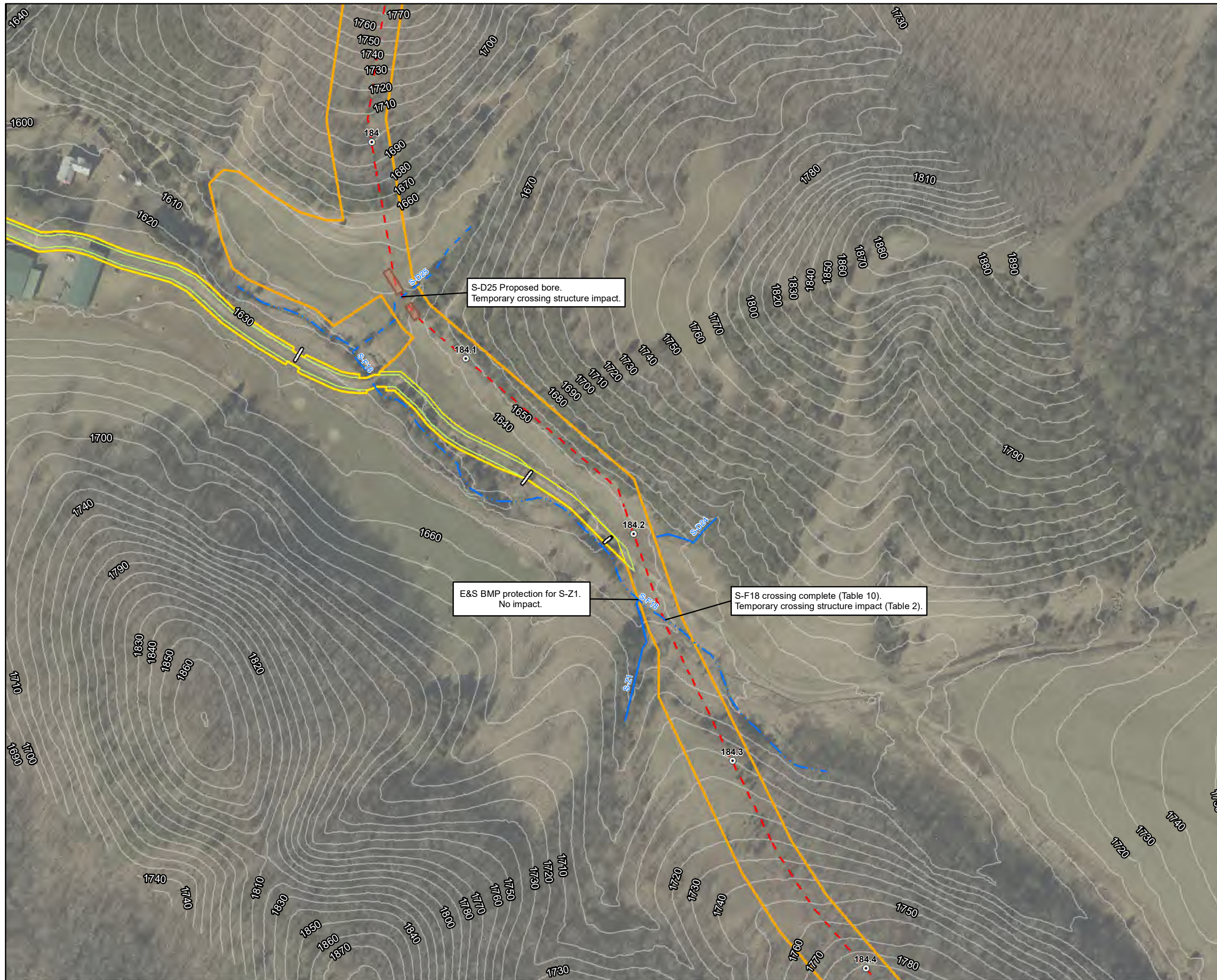
**Detail Map
Individual Permit Application**

Figure 4-495
Monroe County, West Virginia

February 2021

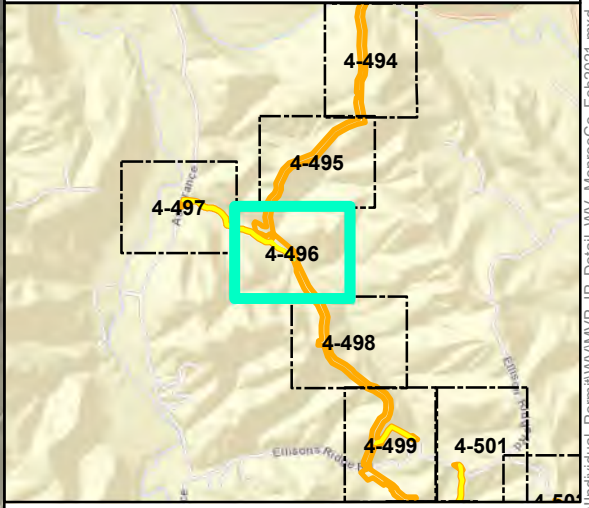
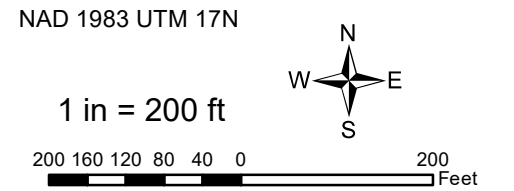
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- Legend**
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 - ▨ Palustrine Scrub-Shrub

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



Mountain Valley Pipeline Project

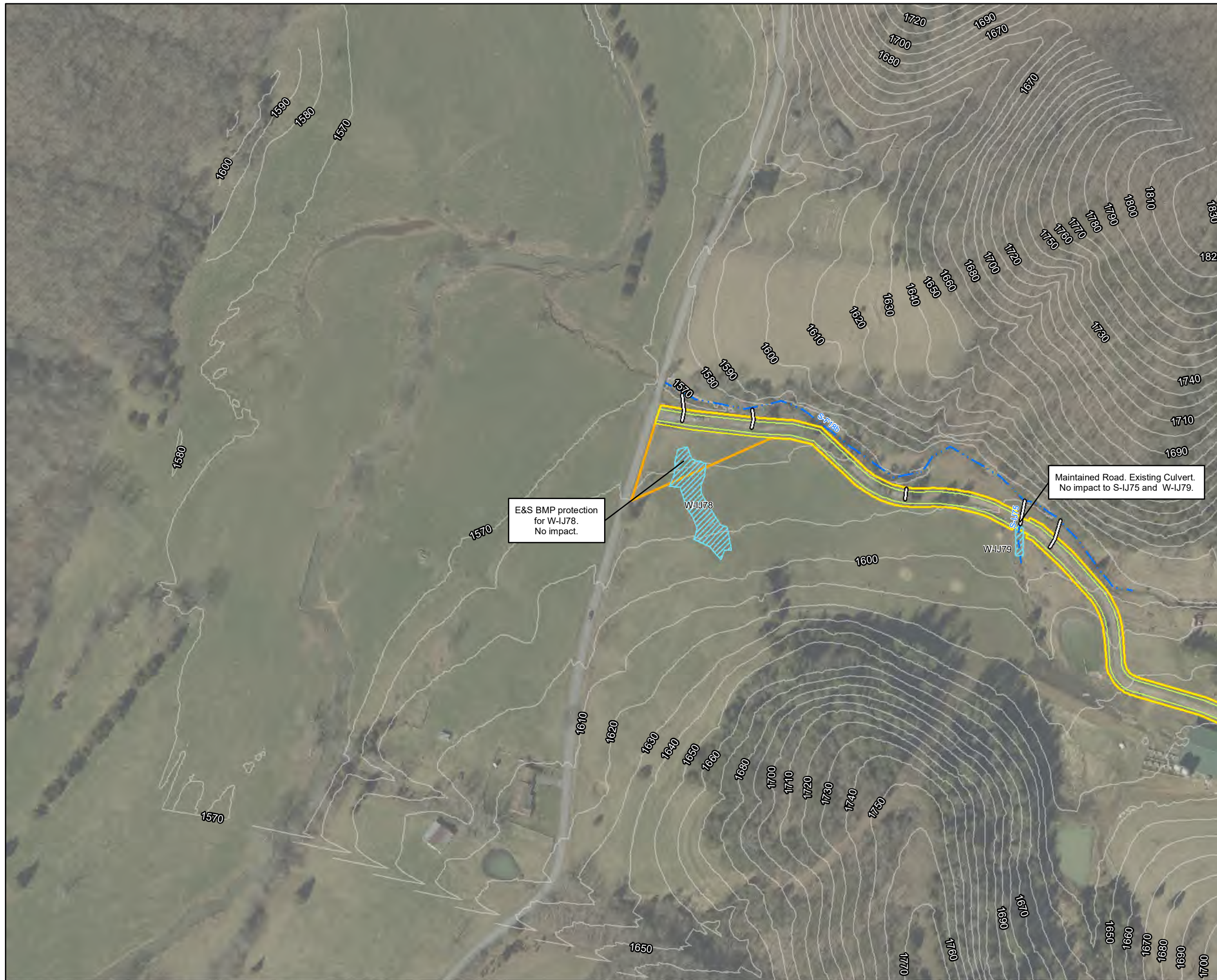
Detail Map
Individual Permit Application

Figure 4-496
Monroe County, West Virginia

February 2021

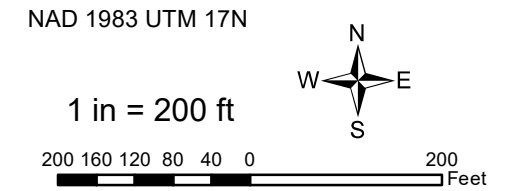
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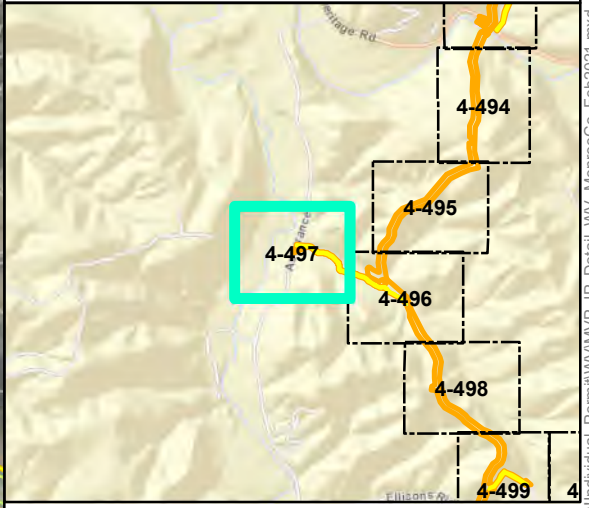
- Legend**
- Milepost
 - Alignment Centerline
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 - Permanent Facility
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 - Bore Pit
 - Culvert
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Note:
Refer to Table 2 (Streams) and Table 3 (Wetlands) in the Individual Permit Application for information on resource impacts.



E&S BMP protection for W-IJ78. No impact.

Maintained Road. Existing Culvert. No impact to S-IJ75 and W-IJ79.



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-497
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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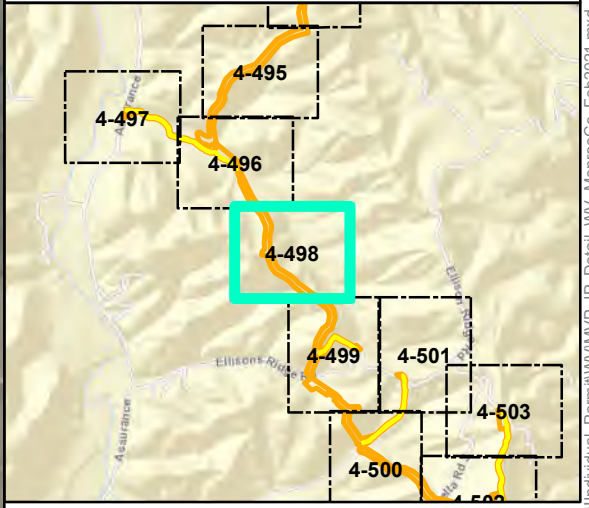
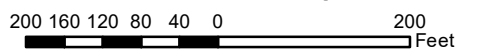
Legend

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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.

NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project



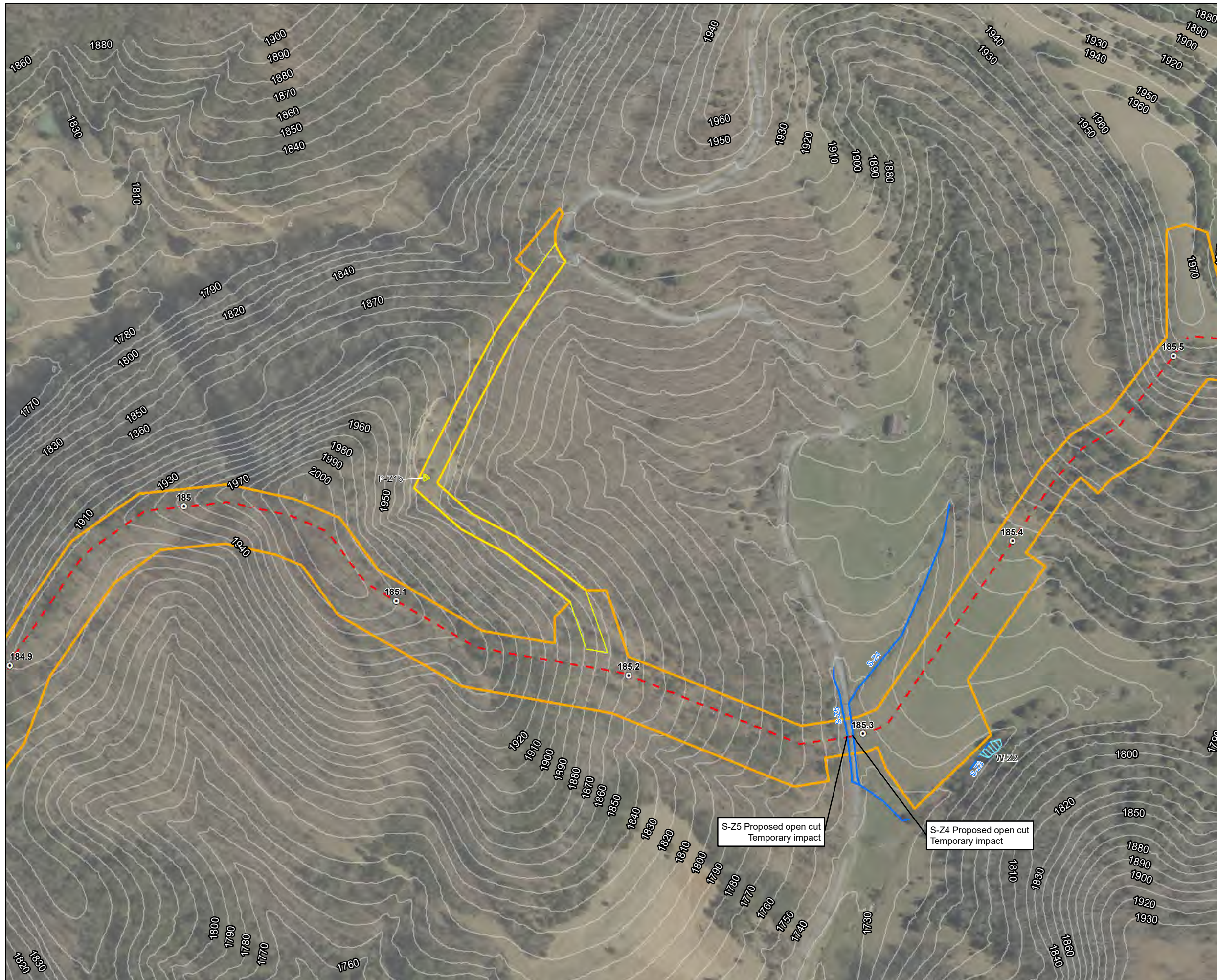
**Detail Map
Individual Permit Application**

Figure 4-498
Monroe County, West Virginia

February 2021

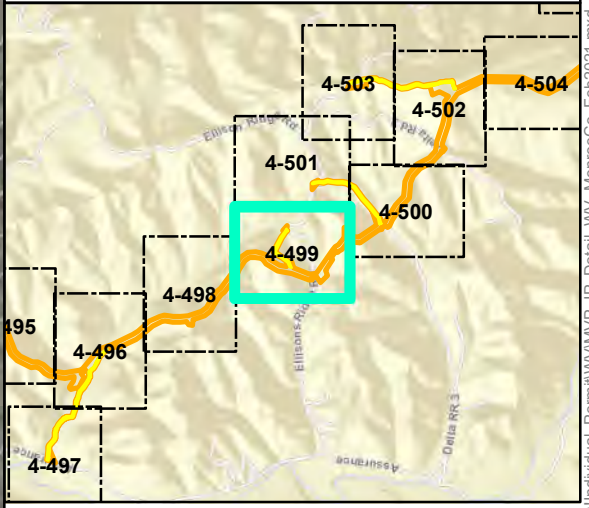
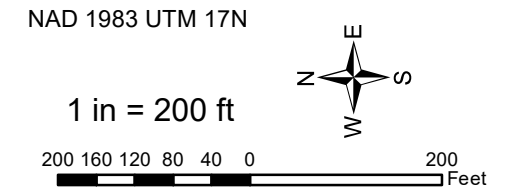
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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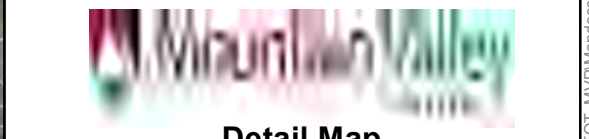


- Legend**
- Milepost
 - Alignment Centerline
 - Access Road Temporary LOD
 - Access Road Permanent LOD
 - Permanent Facility
 - Limit of Disturbance
 - Bore Pit
 - Culvert
 - Stream
 - Intermittent
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 - ▨ Palustrine Scrub-Shrub

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



Mountain Valley Pipeline Project

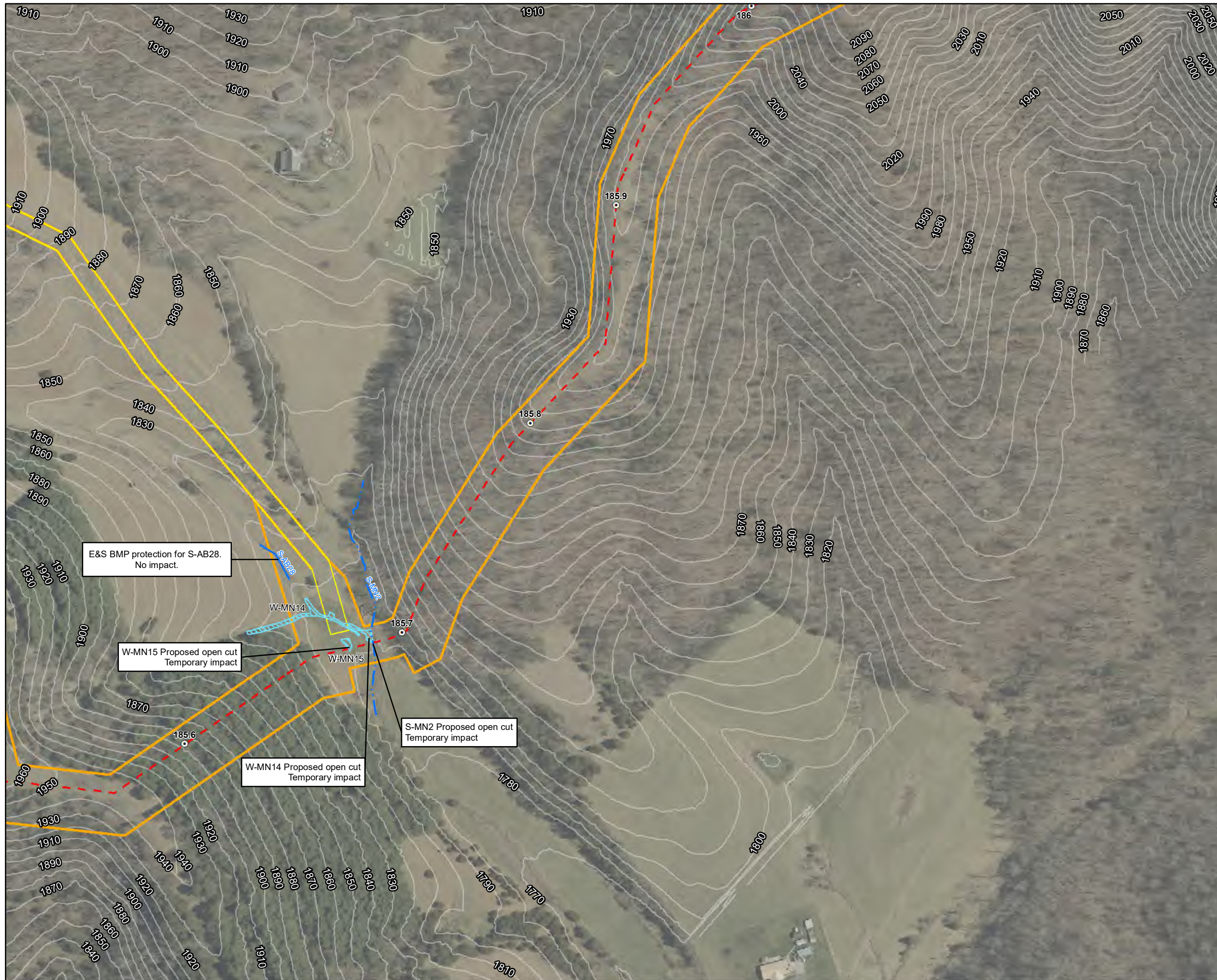


**Detail Map
Individual Permit Application**

Figure 4-499
Monroe County, West Virginia
February 2021

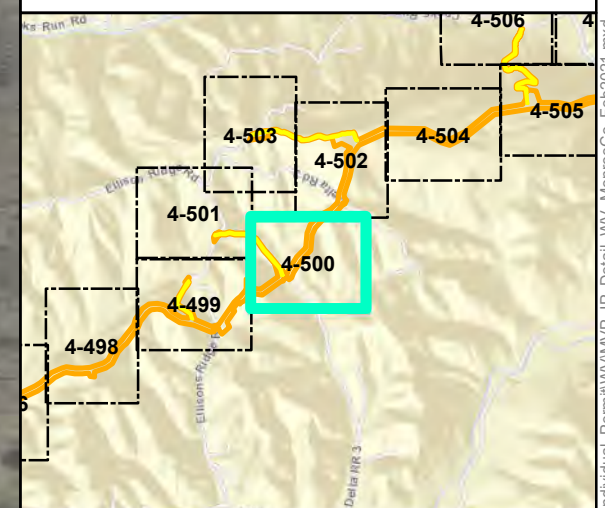
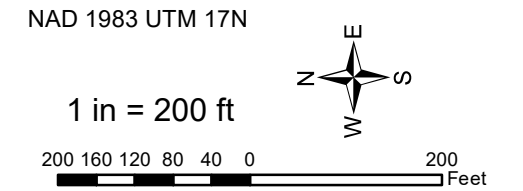
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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- Legend**
- Milepost
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 - Palustrine Scrub-Shrub

Note:
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Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-500
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\062\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



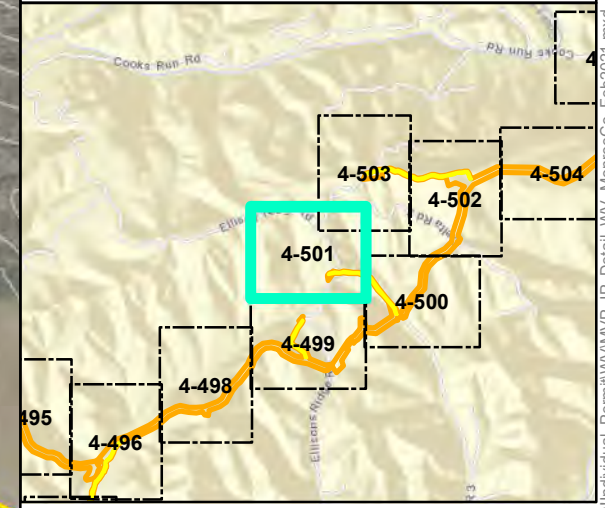
Legend

○ 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
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	▨ 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 4-501
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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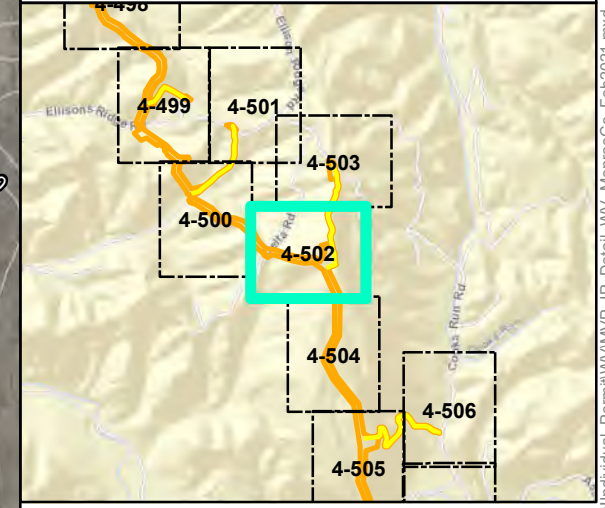
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○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
▭ Access Road Temporary LOD	- · - · - Perennial
▭ Access Road Permanent LOD	— Ephemeral
▭ Permanent Facility	▨ Pond
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Note:
Refer to 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 4-502
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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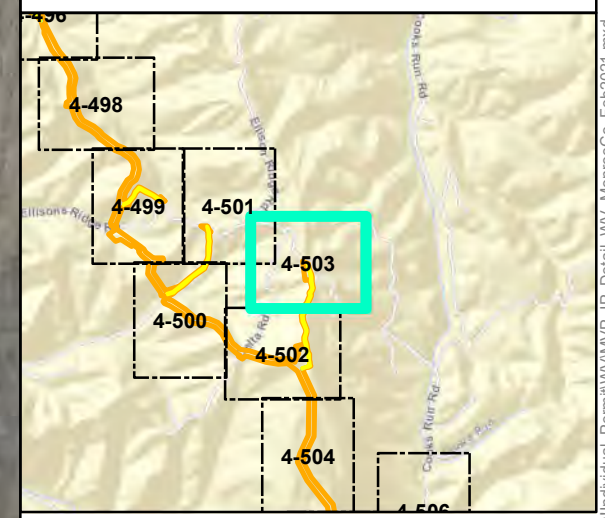
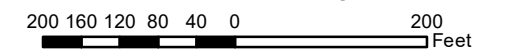
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- Milepost
- Alignment Centerline
- Access Road Temporary LOD
- Access Road Permanent LOD
- Permanent Facility
- Limit of Disturbance
- Bore Pit
- Culvert
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Note:
Refer to Table 2 (Streams) and Table 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 4-503
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.



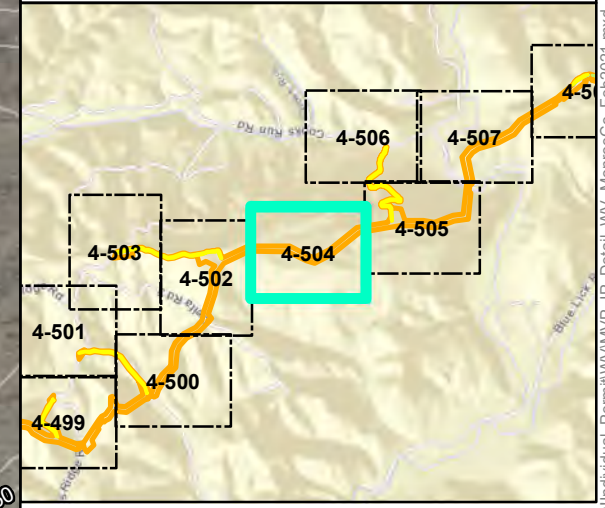
Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
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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

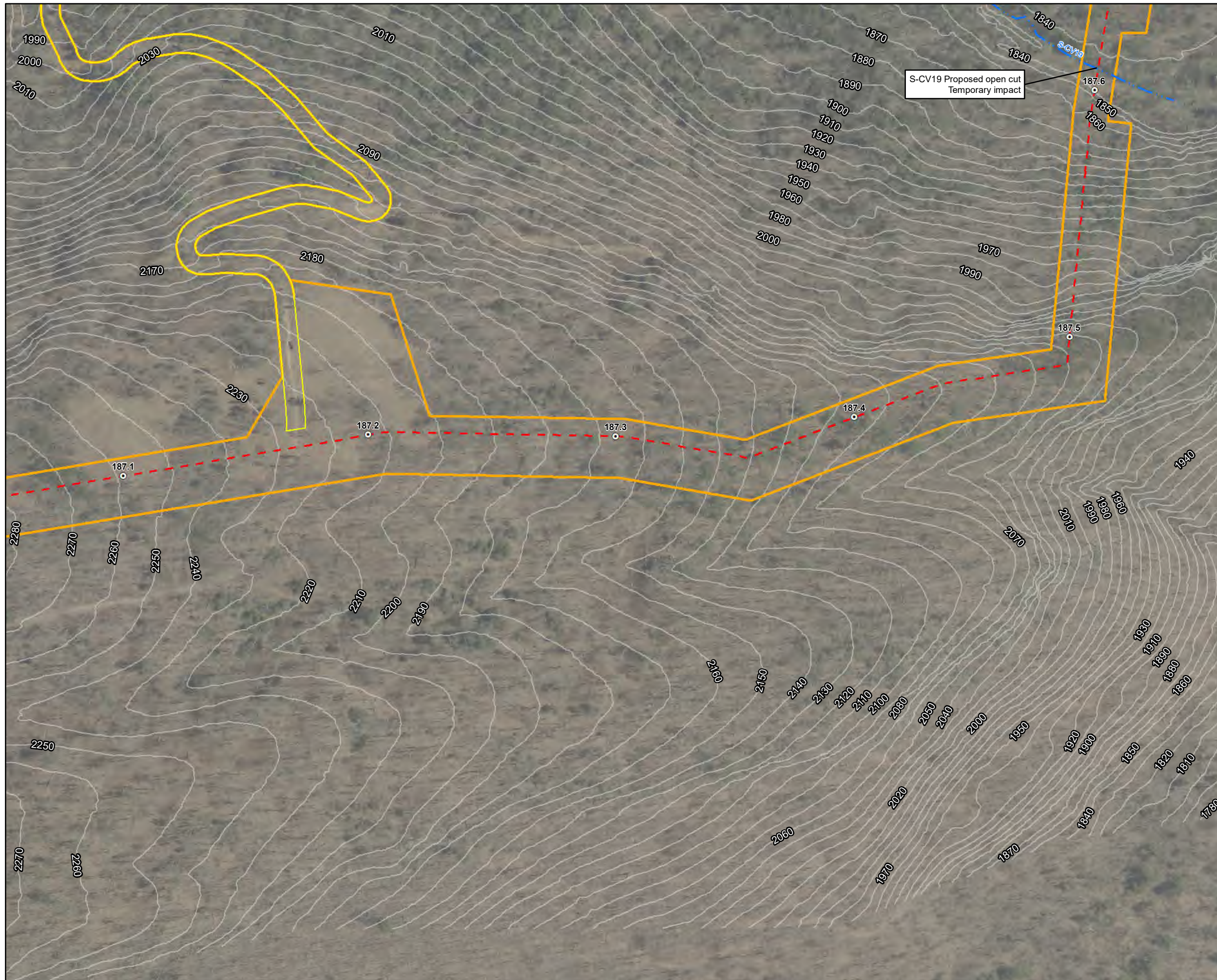
Detail Map
Individual Permit Application

Figure 4-504
Monroe County, West Virginia

February 2021

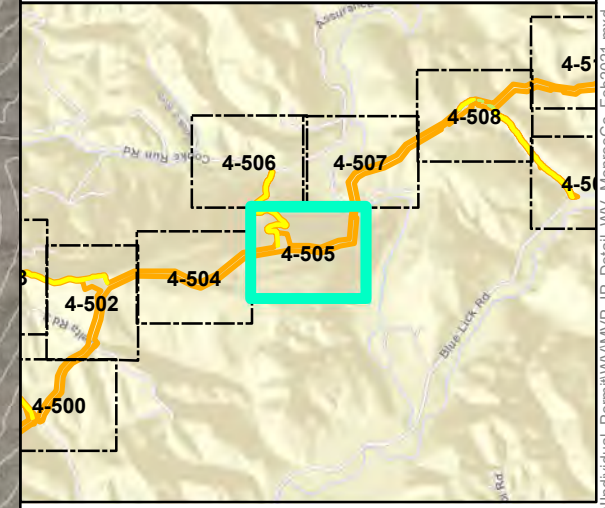
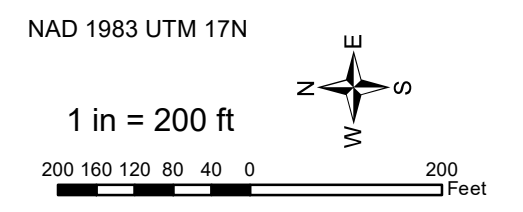
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_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 4-505
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_Feb2021.mxd



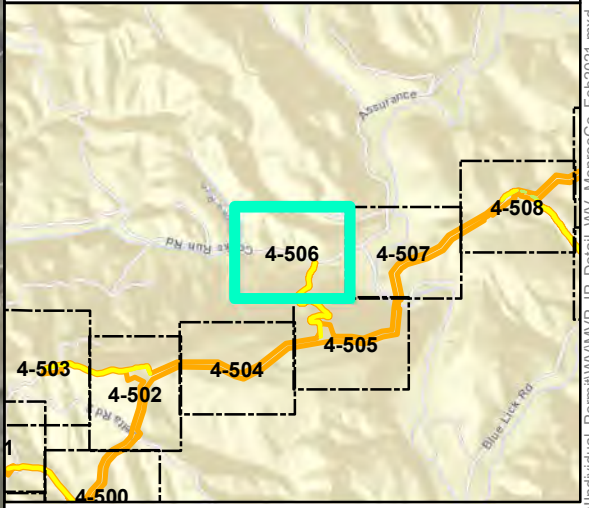
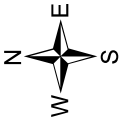
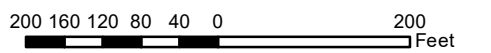
Legend

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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 |
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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 4-506
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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Legend

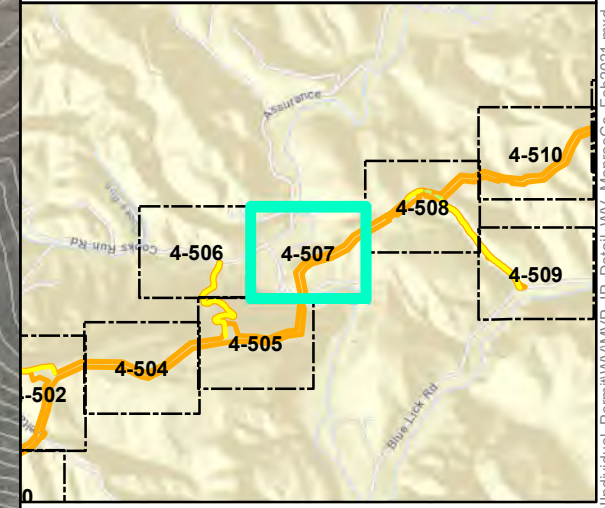
- Milepost
- - Alignment Centerline
- Access Road Temporary LOD
- Access Road Permanent LOD
- Permanent Facility
- Limit of Disturbance
- Bore Pit
- ▬ Culvert
- Stream
- - - Intermittent
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Note:
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NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

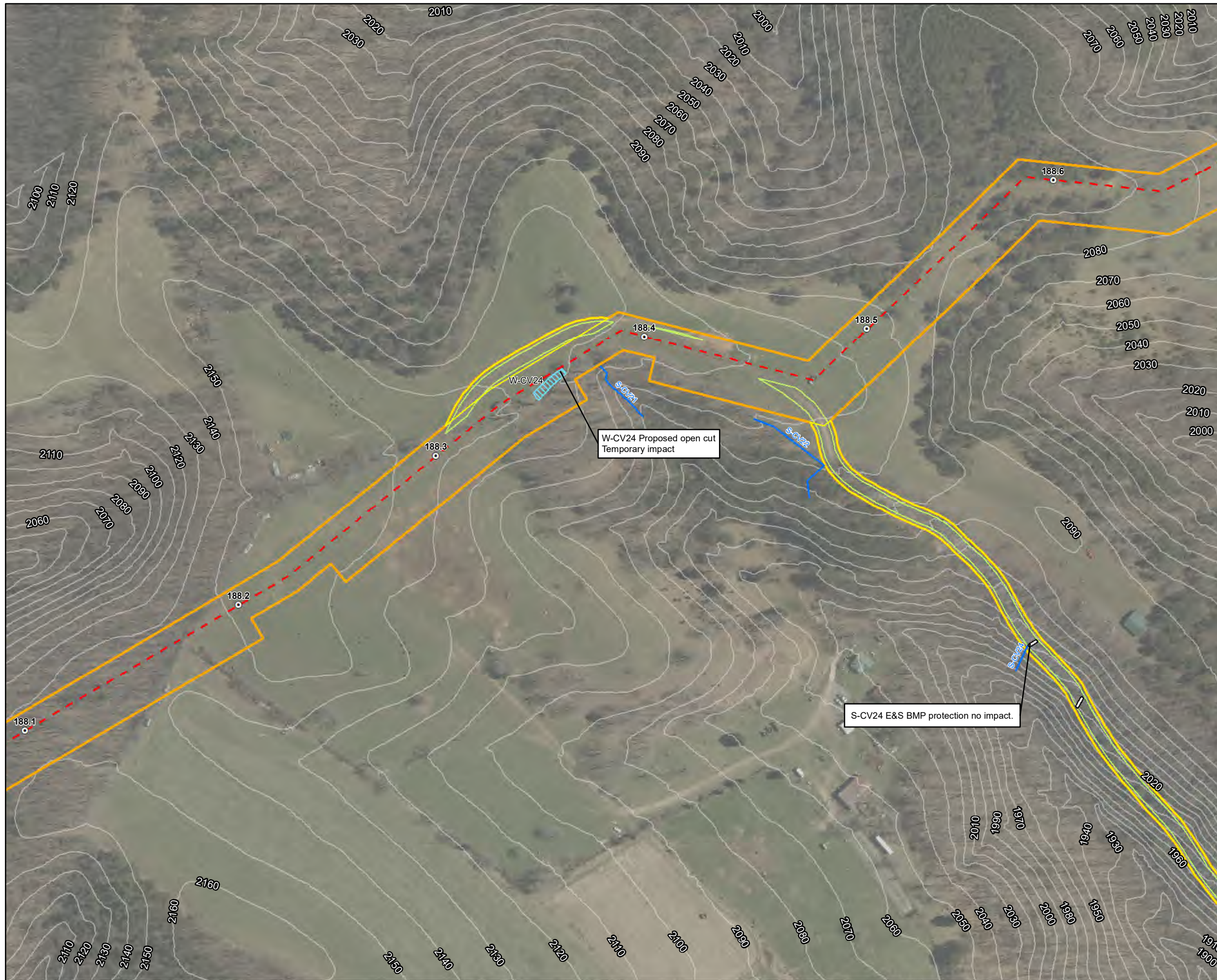
Detail Map
Individual Permit Application

Figure 4-507
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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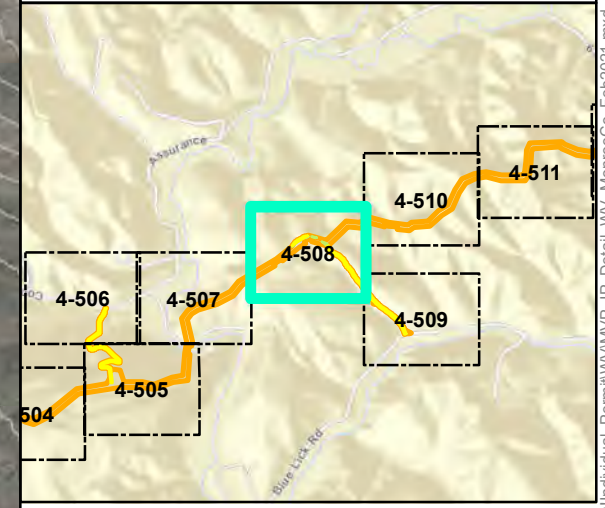
○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
▭ Limit of Disturbance	Wetland
■ Bore Pit	▨ Palustrine Forested
— Culvert	▨ Palustrine Emergent
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NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

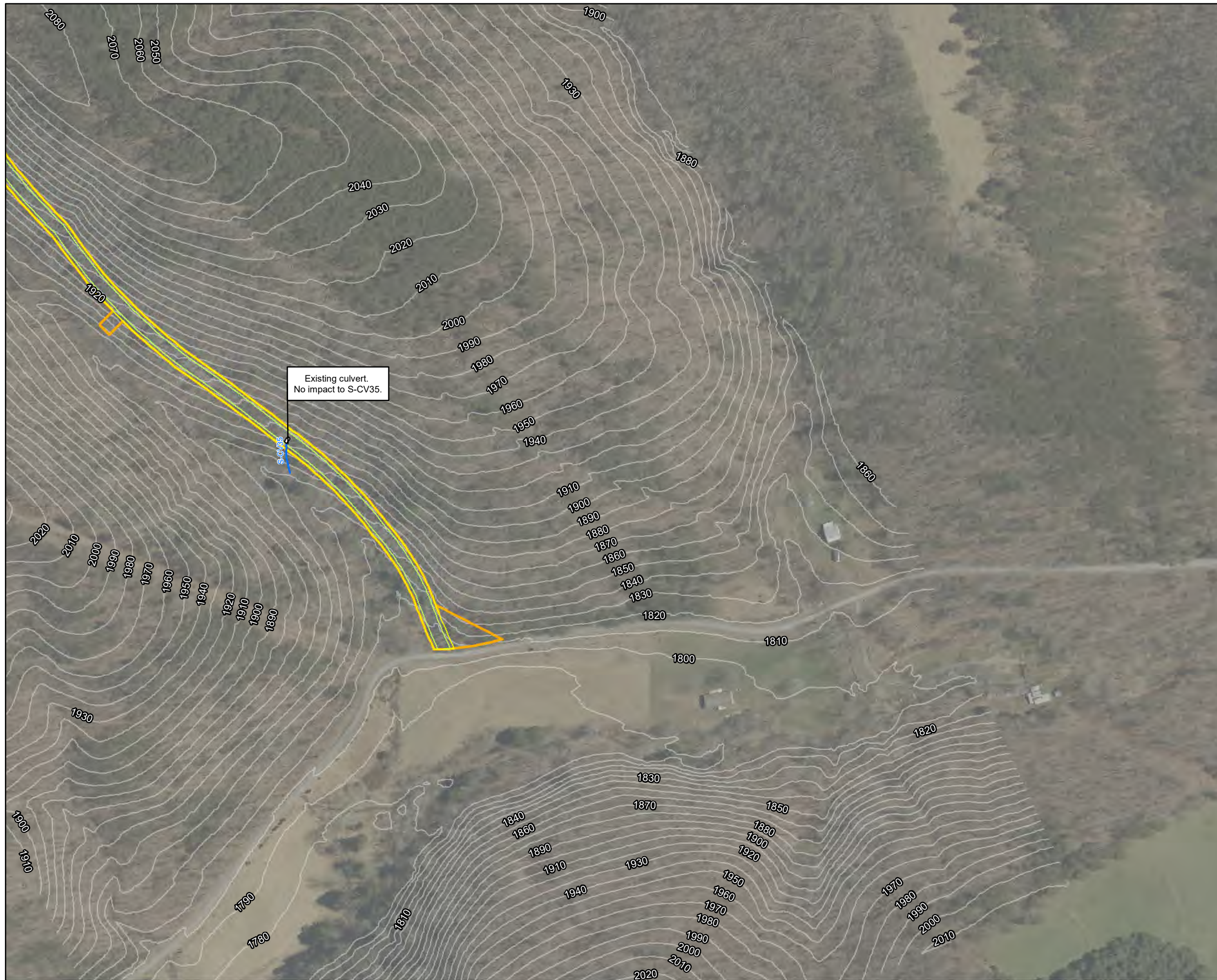
Detail Map
Individual Permit Application

Figure 4-508
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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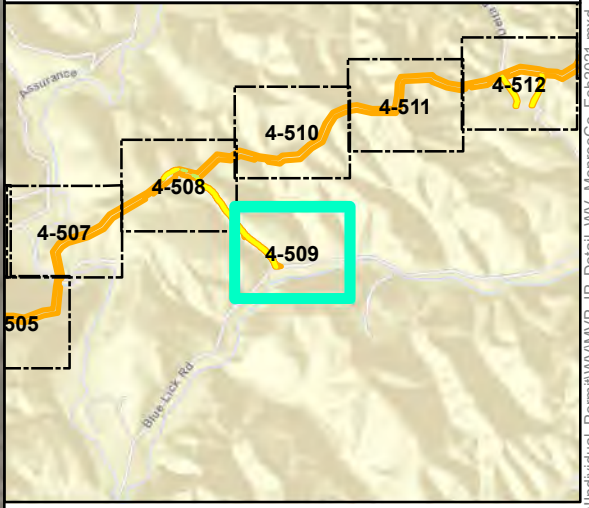
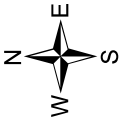
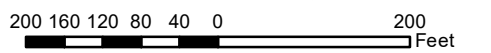
Legend

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|-----------------------------|--------------------------|
| ⊙ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| ▭ Access Road Temporary LOD | - · - · - Perennial |
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| | ▨ 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



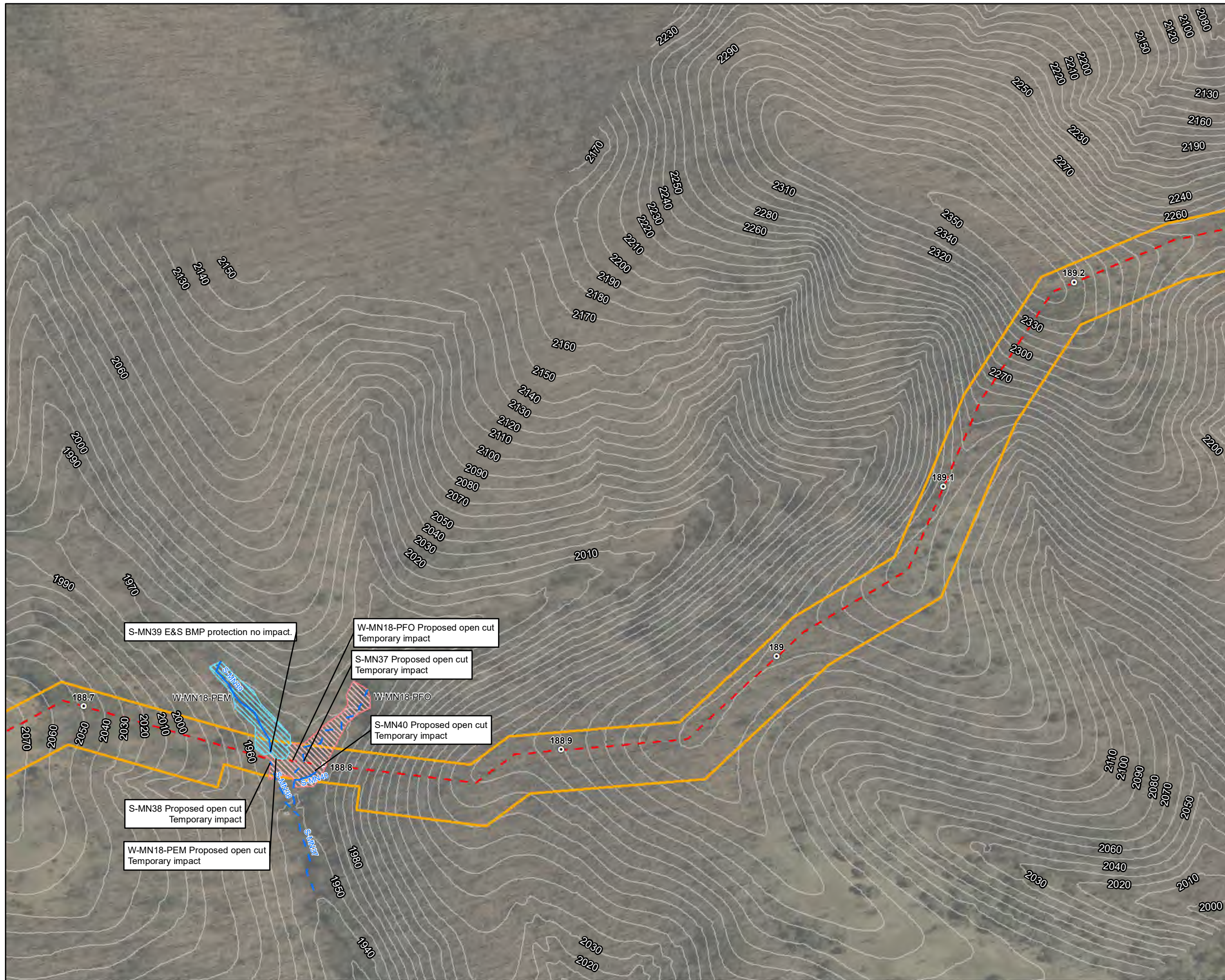
**Detail Map
Individual Permit Application**

Figure 4-509
Monroe County, West Virginia

February 2021

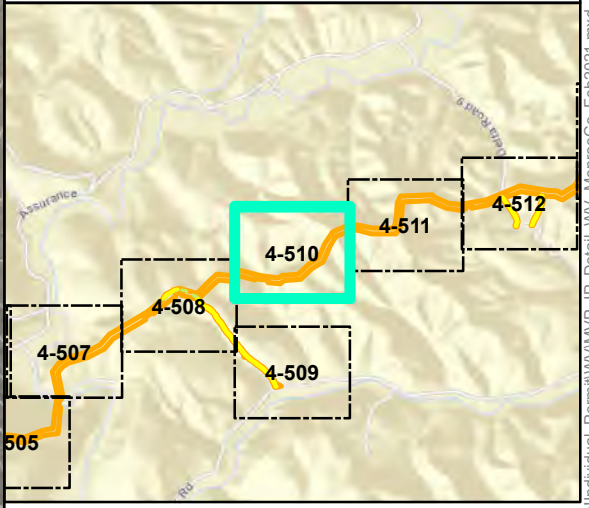
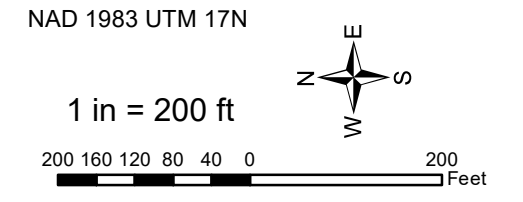
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\0162\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_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
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 - ▨ Palustrine Scrub-Shrub

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



- S-MN39 E&S BMP protection no impact.
- W-MN18-PFO Proposed open cut Temporary impact
- S-MN37 Proposed open cut Temporary impact
- W-MN18-PFO
- S-MN40 Proposed open cut Temporary impact
- S-MN38 Proposed open cut Temporary impact
- W-MN18-PEM Proposed open cut Temporary impact

Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-510
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
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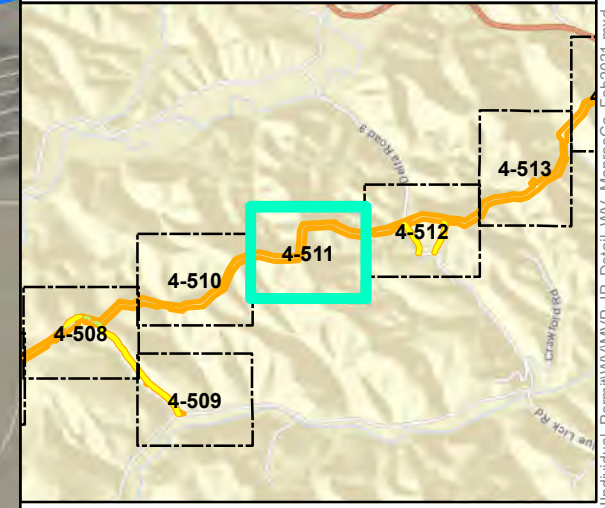
Legend

○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
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Note:
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NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

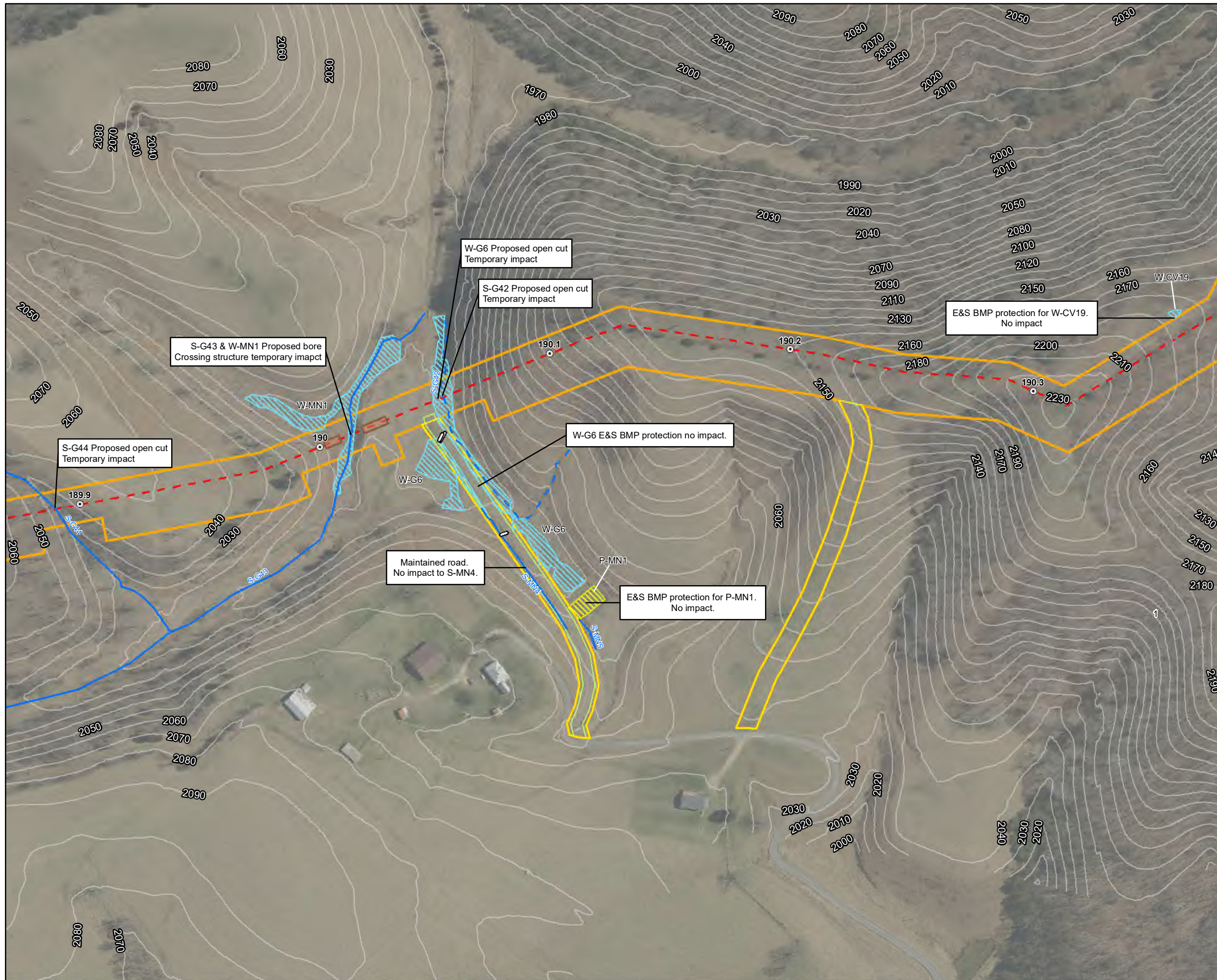
Detail Map
Individual Permit Application

Figure 4-511
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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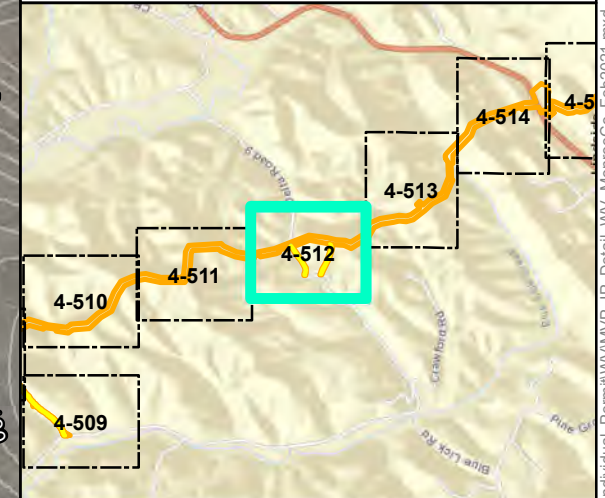
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○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
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NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

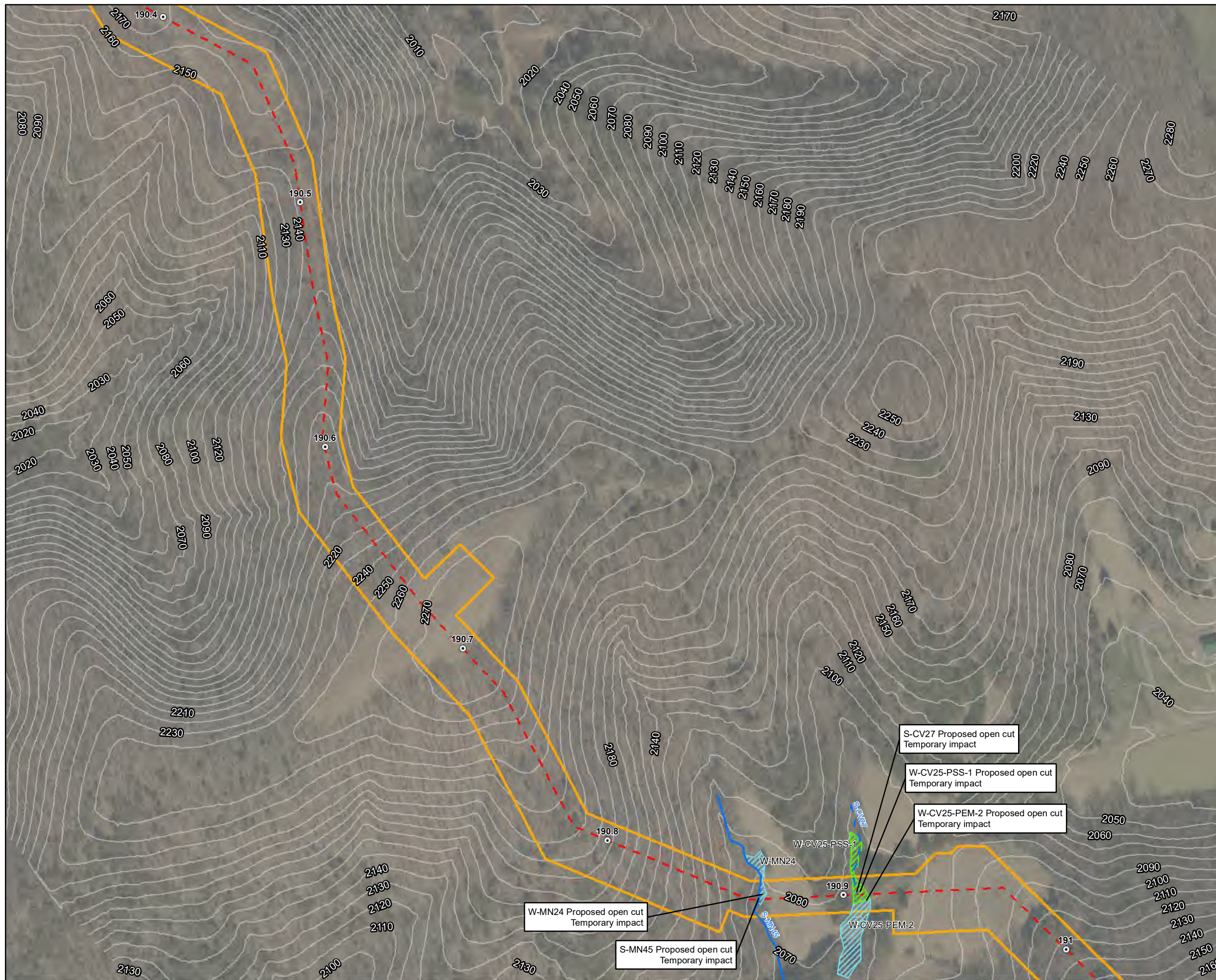
Detail Map
Individual Permit Application

Figure 4-512
Monroe County, West Virginia

February 2021

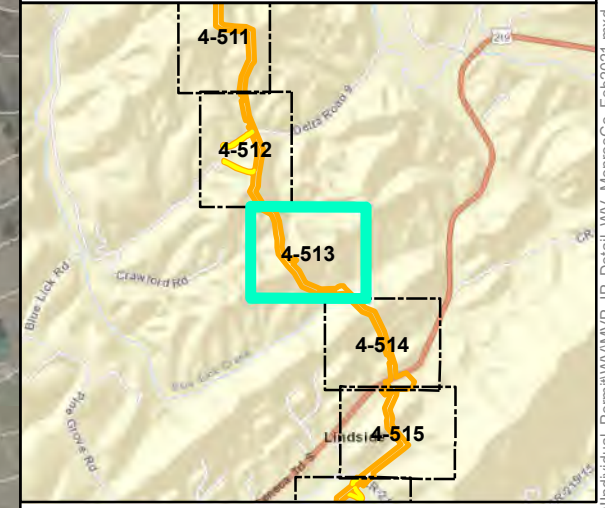
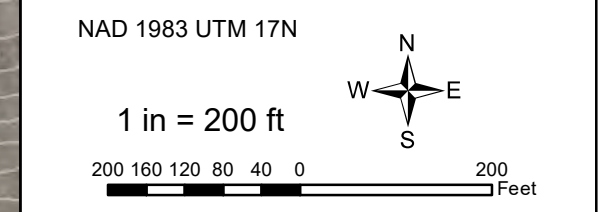
Data Sources: WV GIS Technical Center Imagery Service 2018
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- Legend**
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|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
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| | ▨ Palustrine Scrub-Shrub |

Note:
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Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-513
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

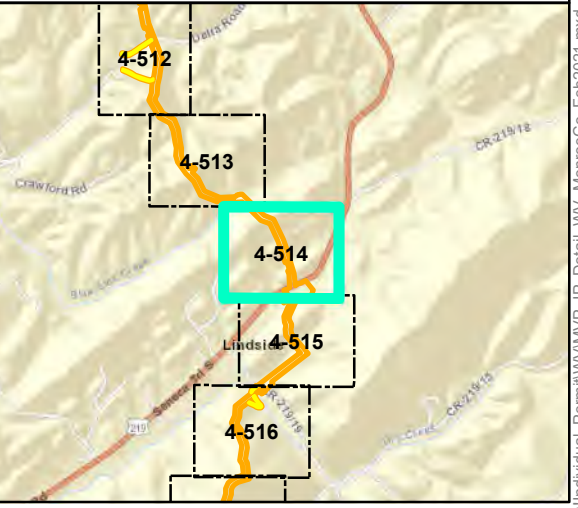
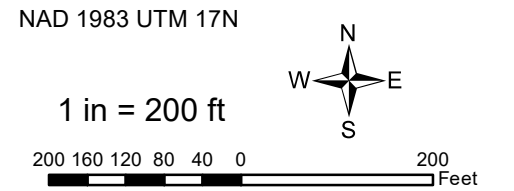
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Legend

- | | |
|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| □ Access Road Temporary LOD | - · - · Perennial |
| □ Access Road Permanent LOD | — Ephemeral |
| □ Permanent Facility | ▨ Pond |
| ▭ Limit of Disturbance | Wetland |
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Note:
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Mountain Valley Pipeline Project



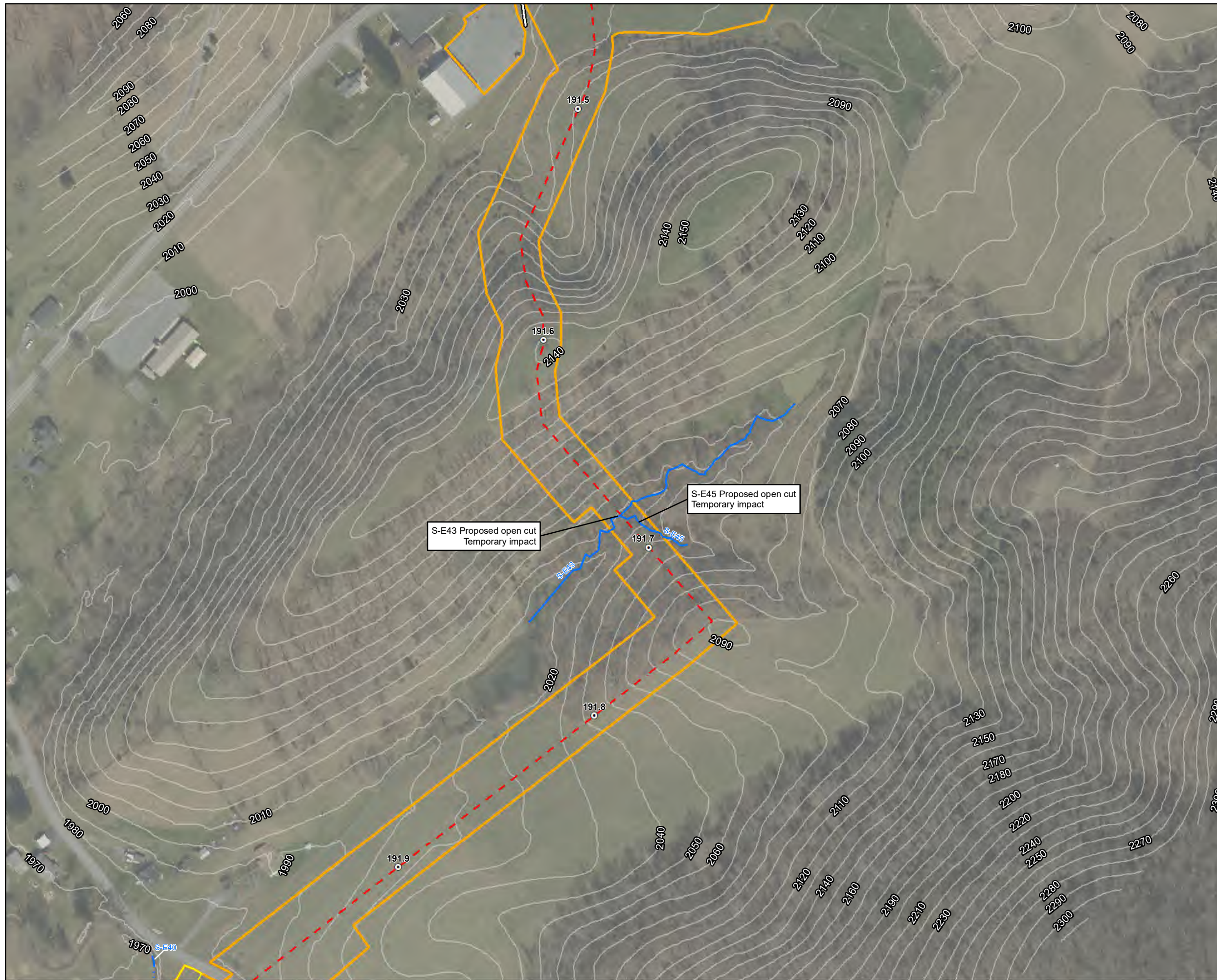
**Detail Map
Individual Permit Application**

Figure 4-514
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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Legend

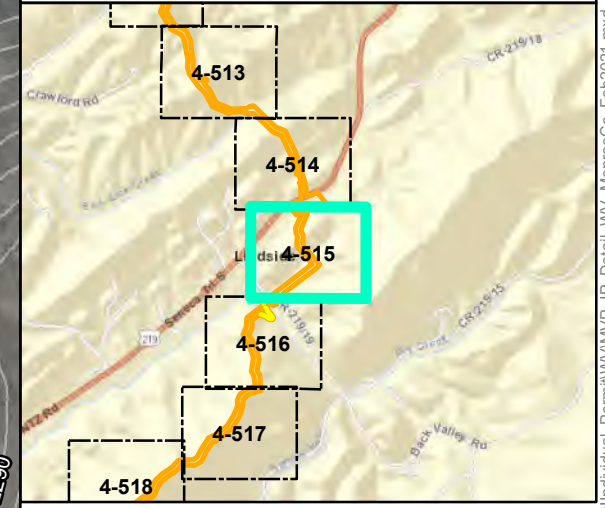
○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
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NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

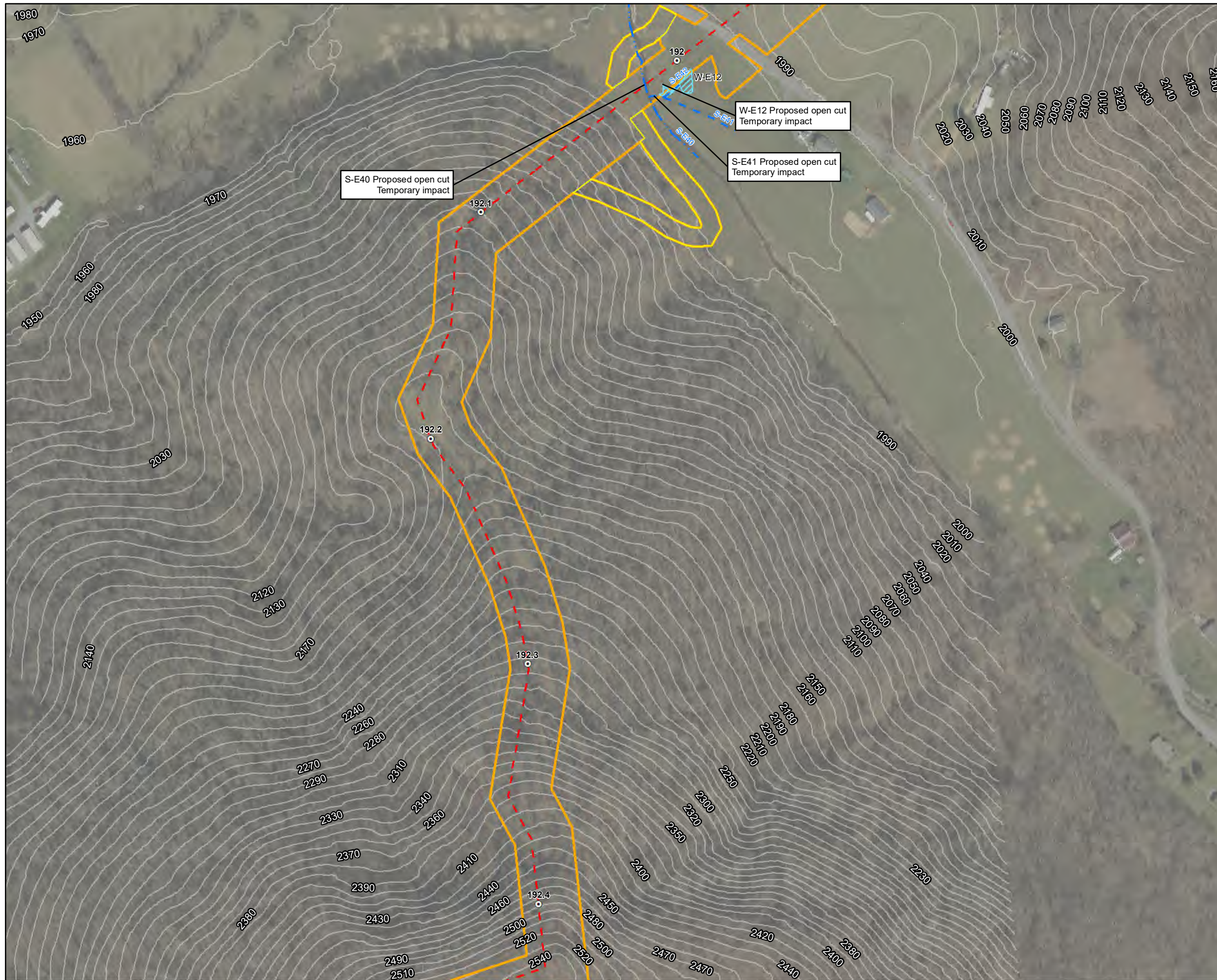
Detail Map
Individual Permit Application

Figure 4-515
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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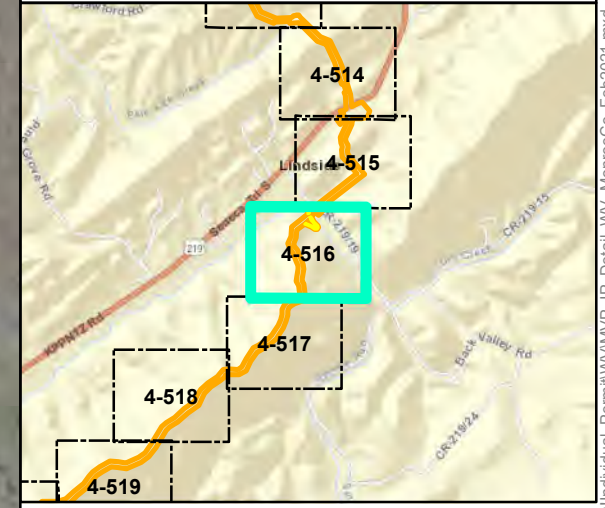
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○ Milepost	Stream
- - - Alignment Centerline	- - - Intermittent
□ Access Road Temporary LOD	- · - · - Perennial
□ Access Road Permanent LOD	— Ephemeral
□ Permanent Facility	▨ Pond
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NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-516
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
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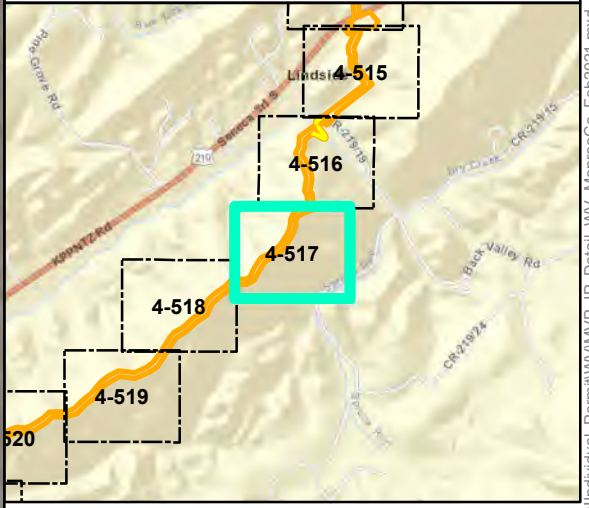
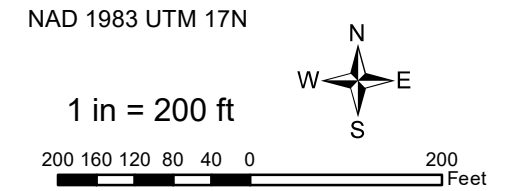
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Legend

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| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
| ▭ Access Road Temporary LOD | - · - · - Perennial |
| ▭ Access Road Permanent LOD | — Ephemeral |
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Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-517
Monroe County, West Virginia

February 2021

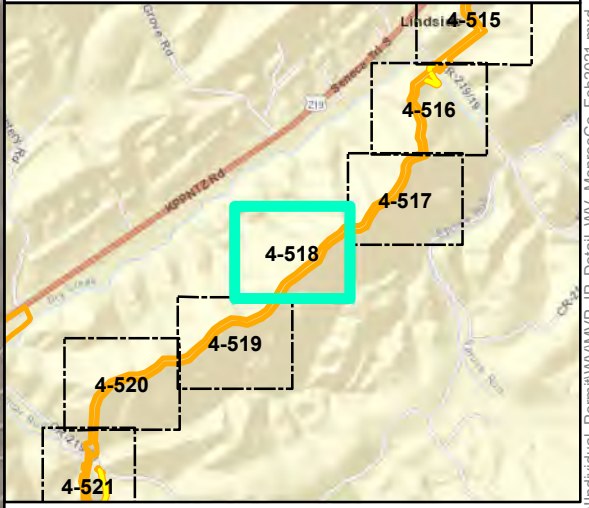
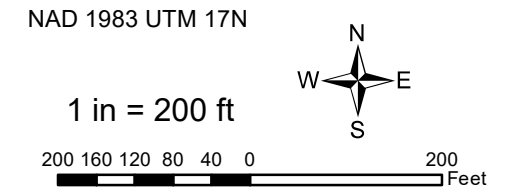
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- Legend**
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|-----------------------------|--------------------------|
| ○ Milepost | Stream |
| - - - Alignment Centerline | - - - Intermittent |
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Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-518
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
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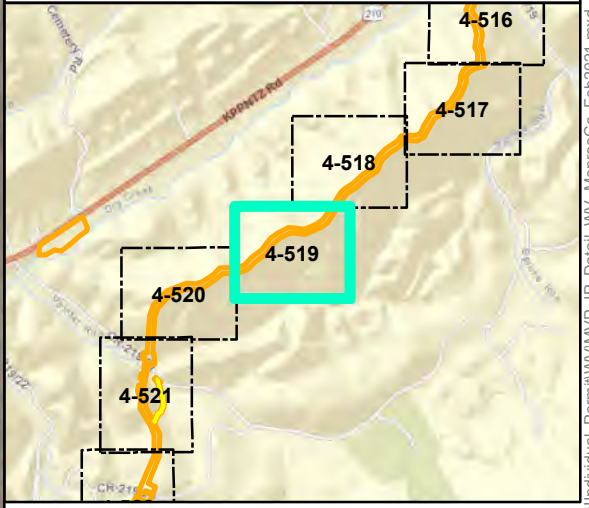
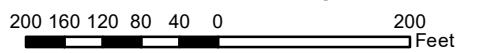
Legend

- Milepost
- - - Alignment Centerline
- Access Road Temporary LOD
- Access Road Permanent LOD
- Permanent Facility
- Limit of Disturbance
- Bore Pit
- ▬ Culvert
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NAD 1983 UTM 17N

1 in = 200 ft



Mountain Valley Pipeline Project



**Detail Map
Individual Permit Application**

Figure 4-519
Monroe County, West Virginia

February 2021

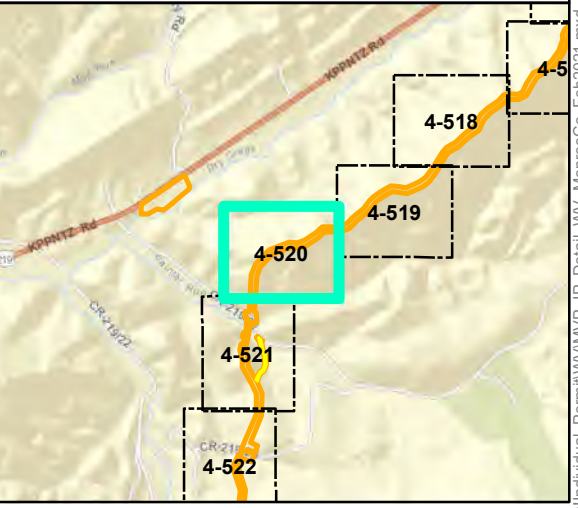
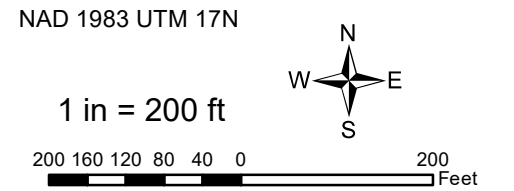
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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Mountain Valley Pipeline Project

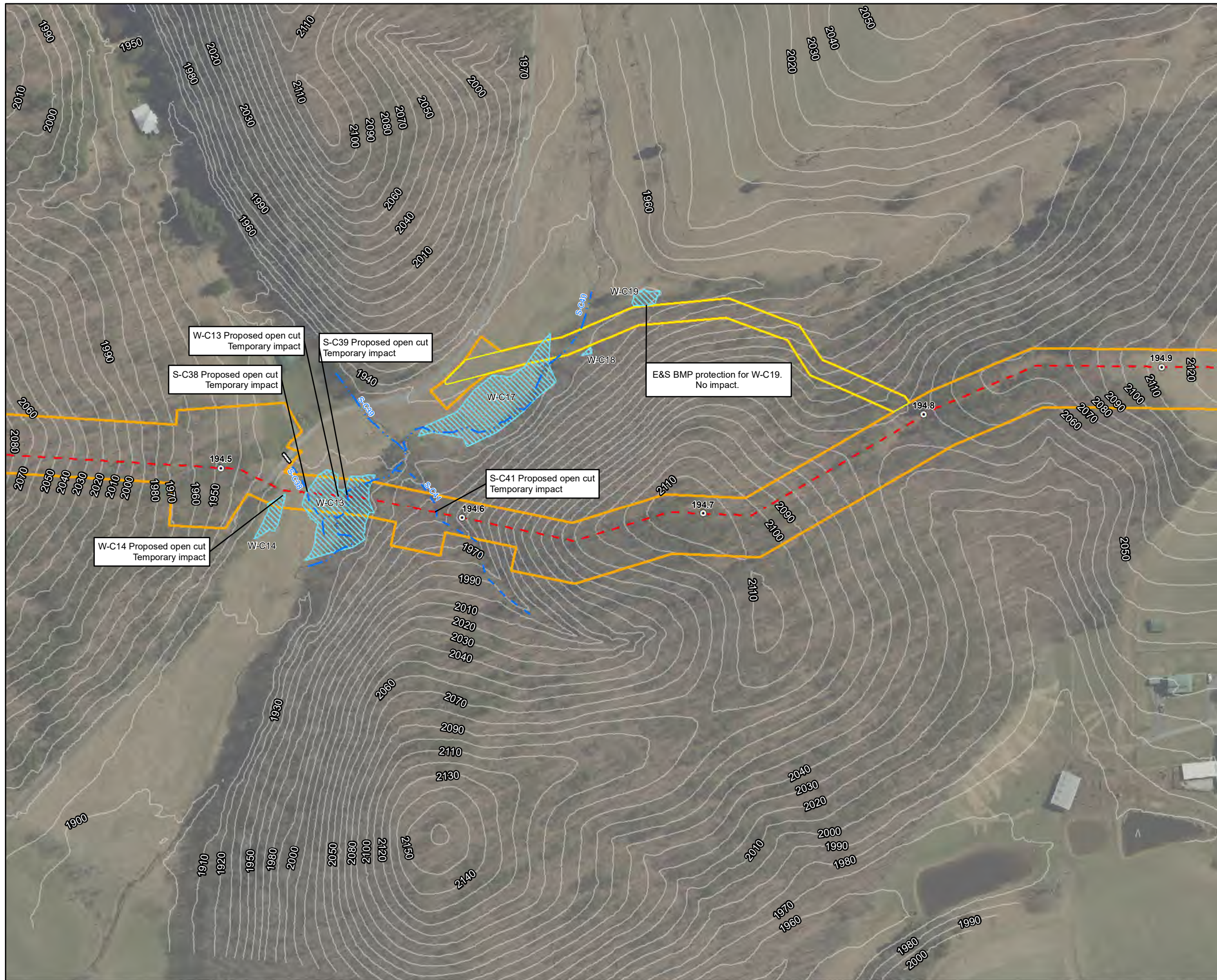
Detail Map
Individual Permit Application

Figure 4-520
Monroe County, West Virginia

February 2021

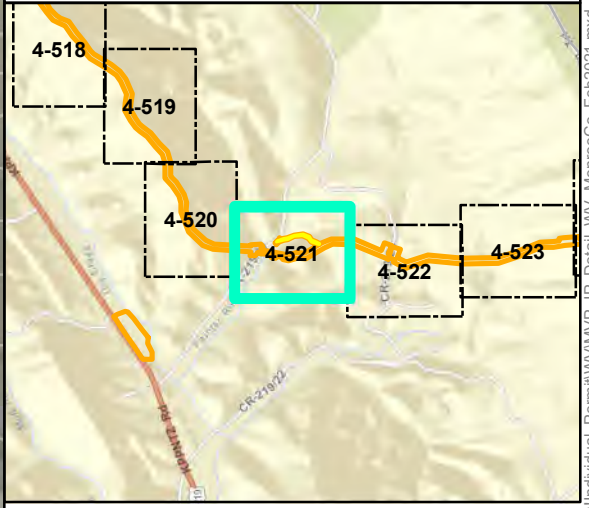
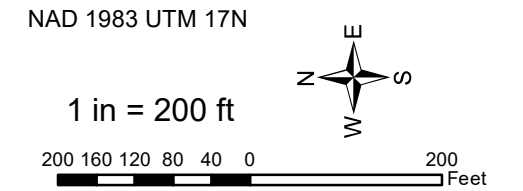
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

Document Path: P:\GIS\01\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\WV\MVP_IP_Detail\WV_MonroeCo_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 4-521
Monroe County, West Virginia

February 2021

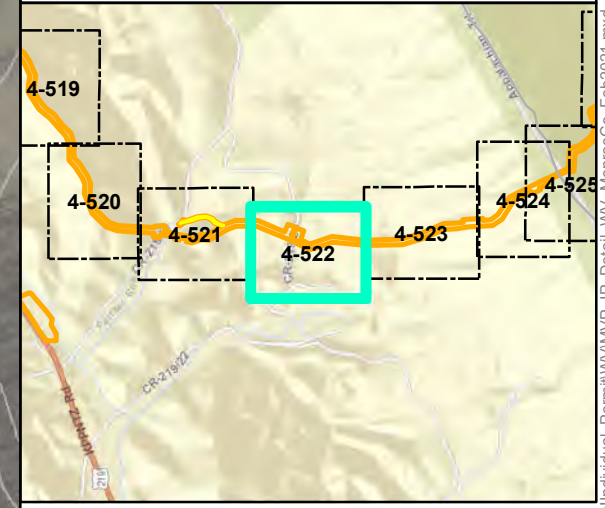
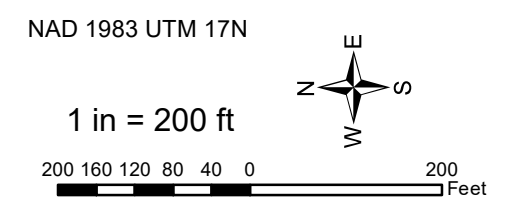
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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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 4-522
Monroe County, West Virginia

February 2021

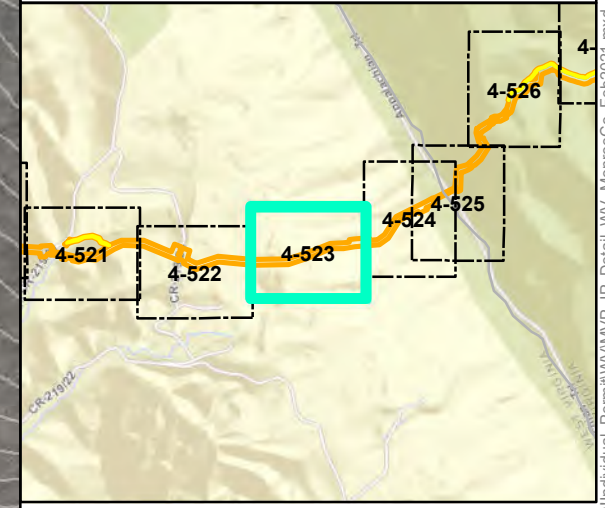
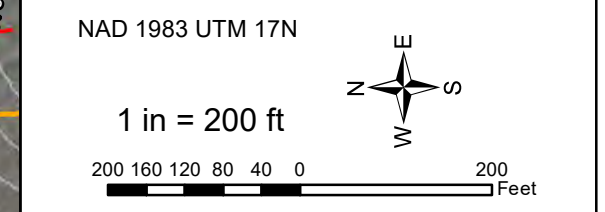
Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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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
 - Stream Perennial
 - Stream 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 4-523
Monroe County, West Virginia

February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

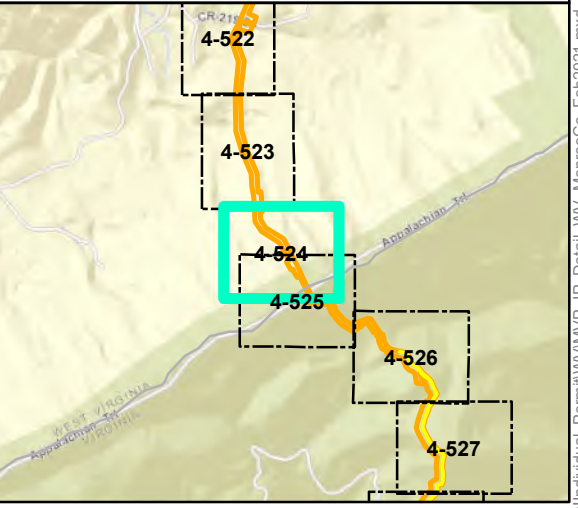
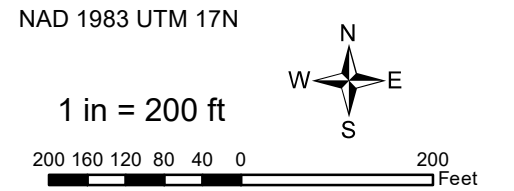
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Legend

- | | |
|-----------------------------|--------------------------|
| ○ 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 4-524
Monroe County, West Virginia
February 2021

Data Sources: WV GIS Technical Center Imagery Service 2018
Note: Map insets are at a scale of 1 inch = 50 feet unless otherwise noted.

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