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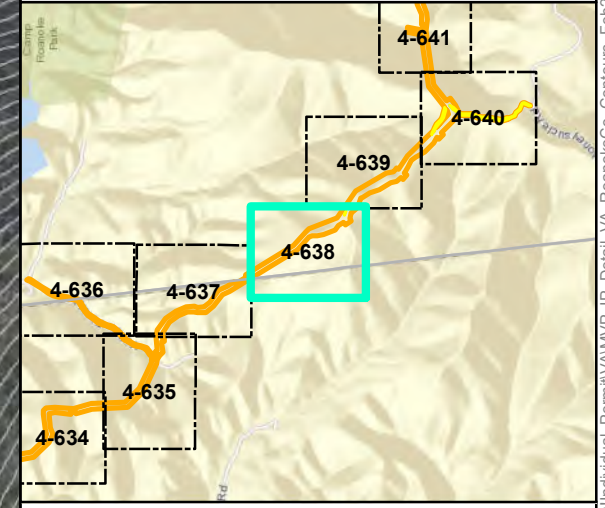
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- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
▭ Culvert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

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 4-638
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LiDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

Document Path: P:\GIS\01\0162\GIS\GIS\EQT\MVP\Mapdocs\Wetlands\Individual_Permit\VA\MVP_IP_Detail_VA_RoanokeCo_Contours_Feb2021.mxd



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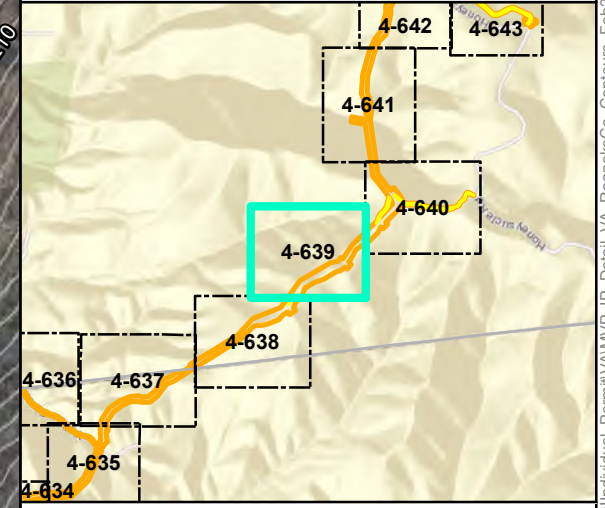
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- - - Alignment Centerline	▨ Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
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▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▬ Stream Impact
▭ Bore Pit	▬ Temporary
▭ Culvert	▬ Permanent
▬ Stream	▨ Wetland Impact
▬ Intermittent	▨ Temporary
▬ Ephemeral	▨ Conversion
▬ Perennial	▨ Permanent Fill

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 4-639
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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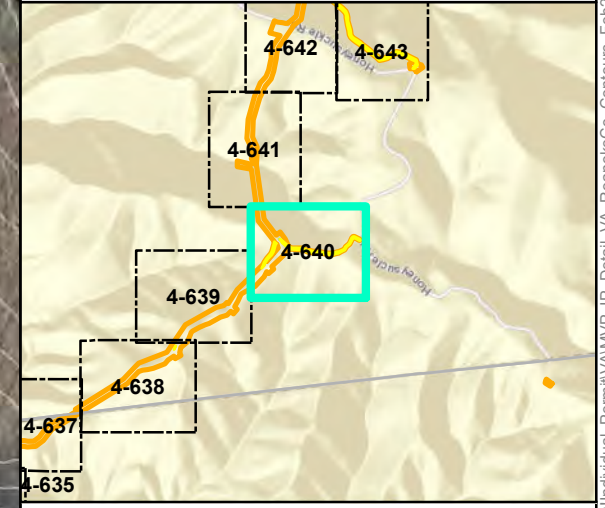
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- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
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▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

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

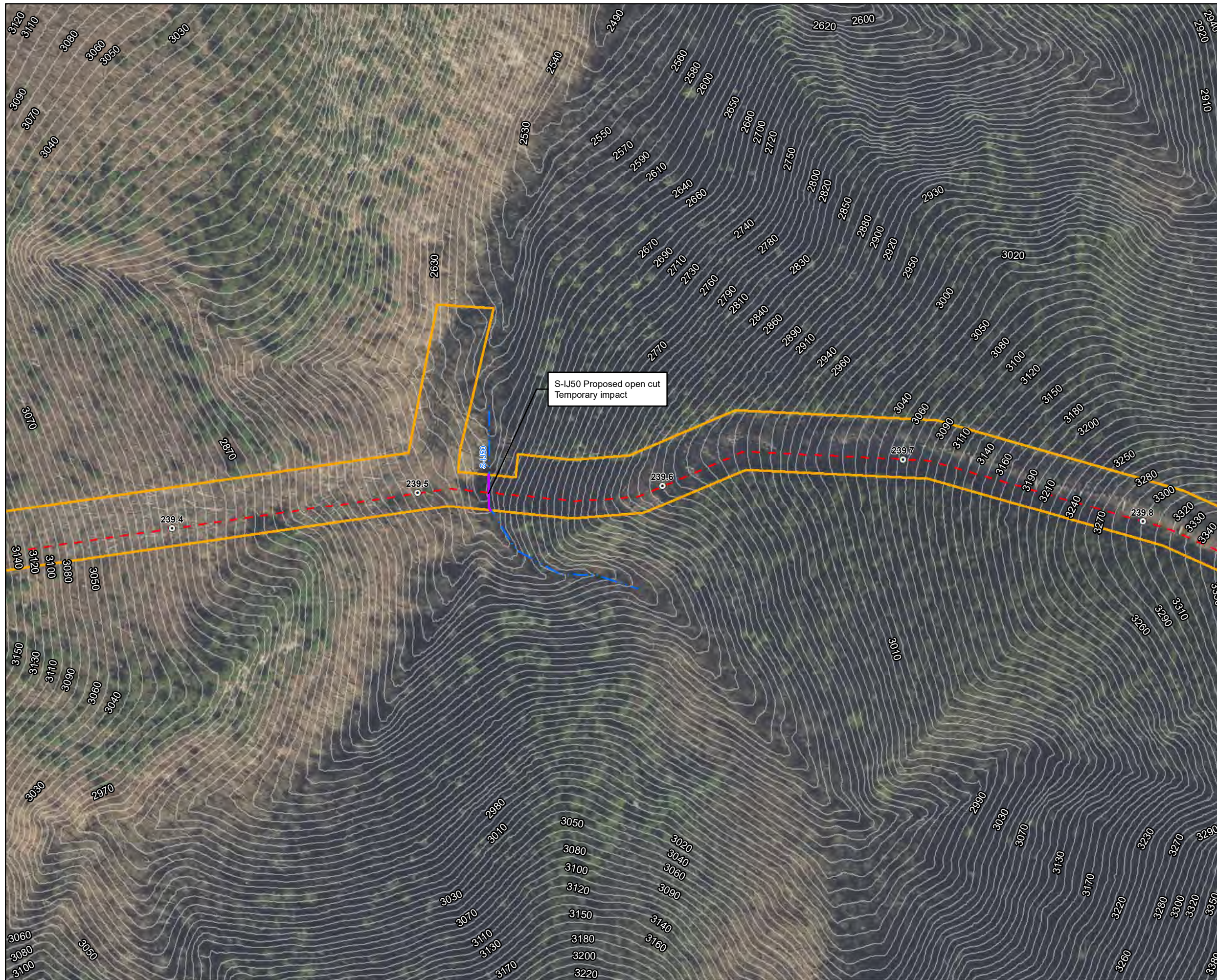
Detail Map
Individual Permit Application

Figure 4-640
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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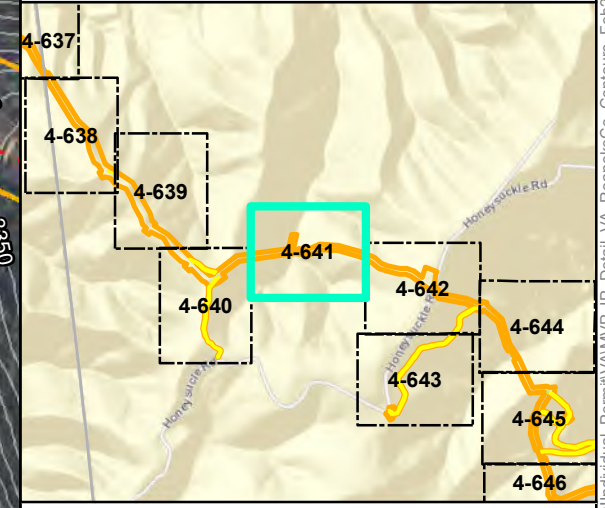
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- - - Alignment Centerline	▨ Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▨ Stream Impact
▭ Bore Pit	▨ Temporary
▭ Culvert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

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 4-641
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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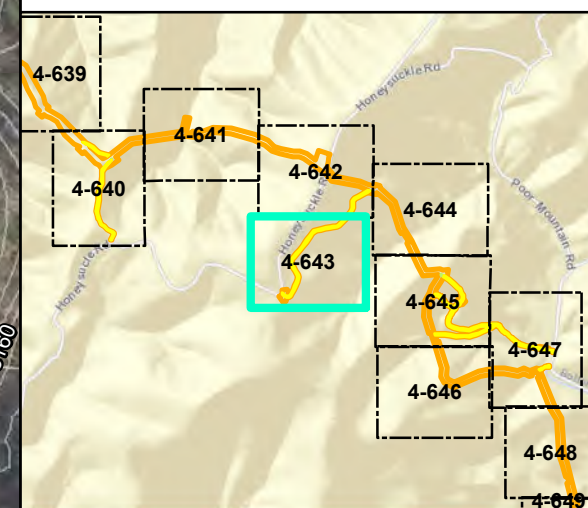


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- - - Alignment Centerline	▨ Wetland
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▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▨ Stream Impact
▭ Bore Pit	▨ Temporary
▭ Culvert	▨ Permanent
▨ Stream	▨ Wetland Impact
▨ Intermittent	▨ Temporary
▨ Ephemeral	▨ Conversion
▨ Perennial	▨ Permanent Fill

Note:
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NAD 1983 UTM 17N
1 in = 200 ft



Mountain Valley Pipeline Project

Detail Map
Individual Permit Application

Figure 4-643
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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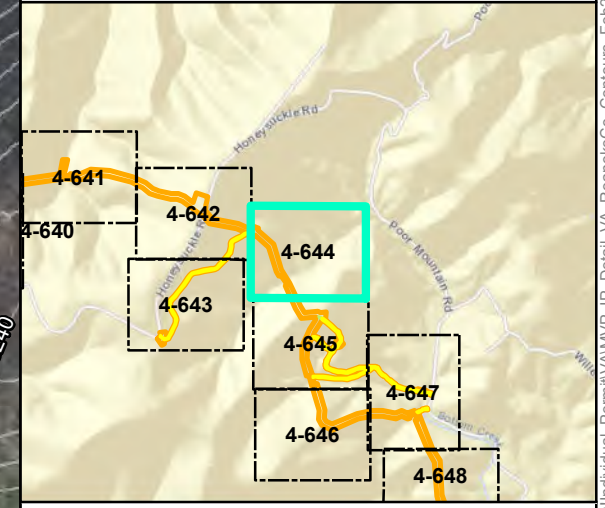
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- - - Alignment Centerline	Wetland
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▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

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

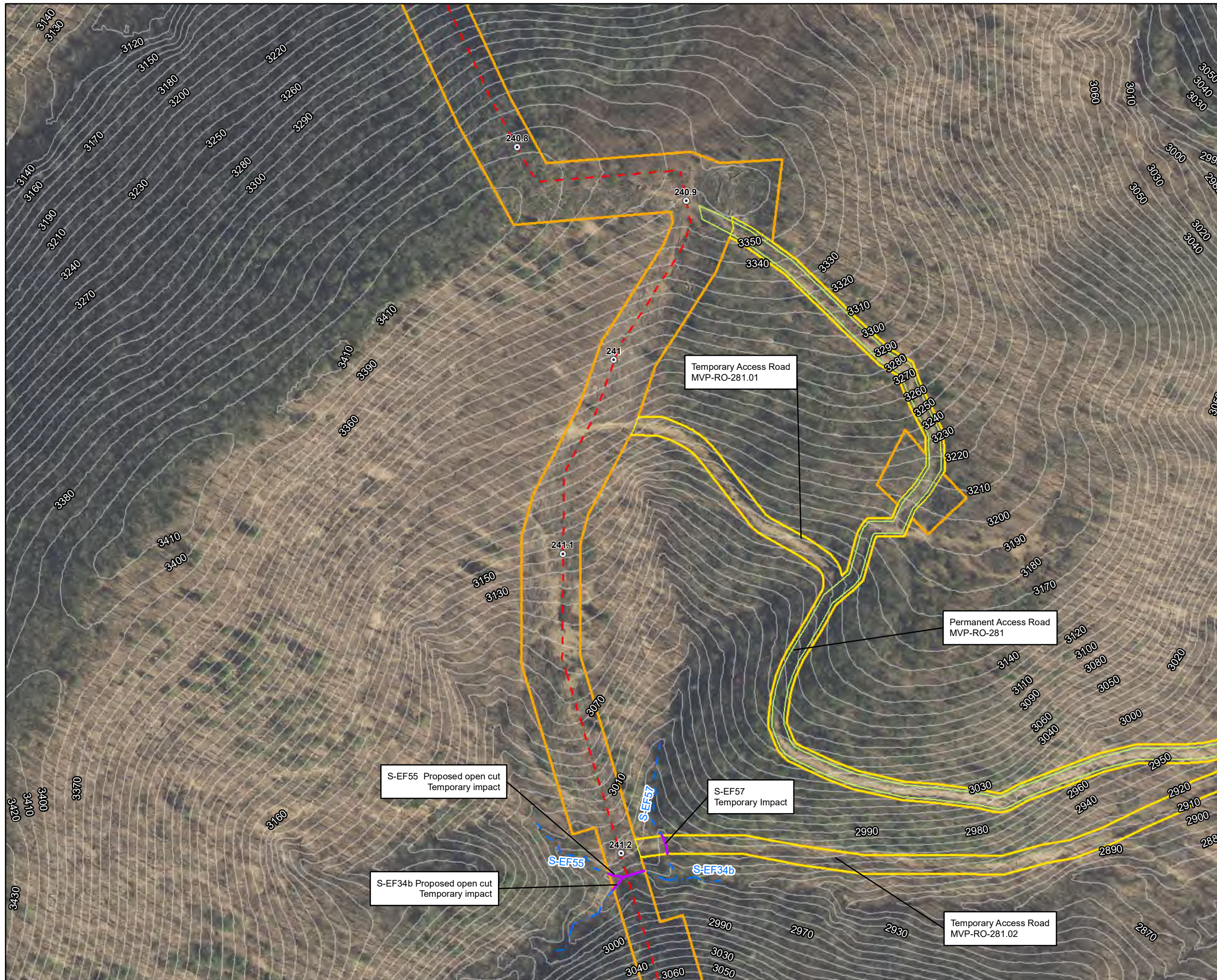
Detail Map
Individual Permit Application

Figure 4-644
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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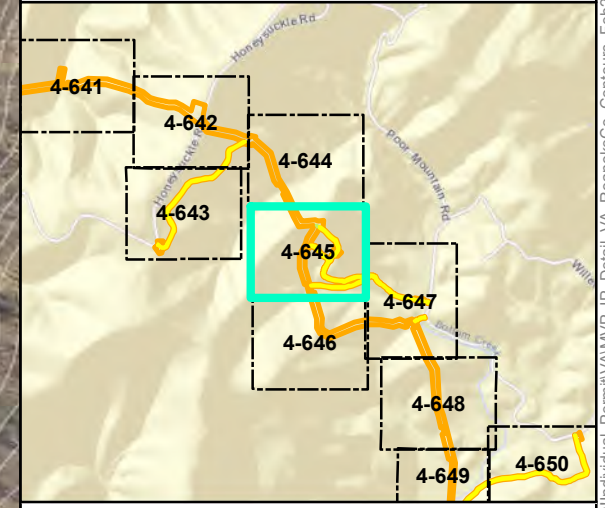
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▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▨ Stream Impact
▭ Bore Pit	▨ Temporary
▭ Culvert	▨ Permanent
▨ Stream	▨ Wetland Impact
▨ Intermittent	▨ Temporary
▨ Ephemeral	▨ Conversion
▨ Perennial	▨ Permanent Fill

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 4-645
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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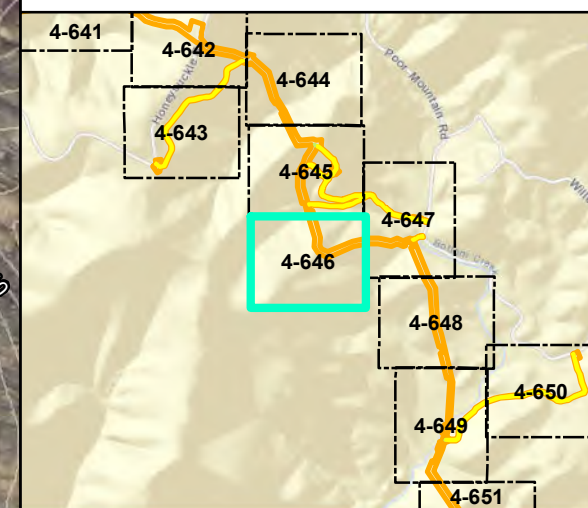
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▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▨ Stream Impact
▭ Bore Pit	▨ Temporary
▭ Culvert	▨ Permanent
▨ Stream	▨ Wetland Impact
▨ Intermittent	▨ Temporary
▨ Ephemeral	▨ Conversion
▨ Perennial	▨ Permanent Fill

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

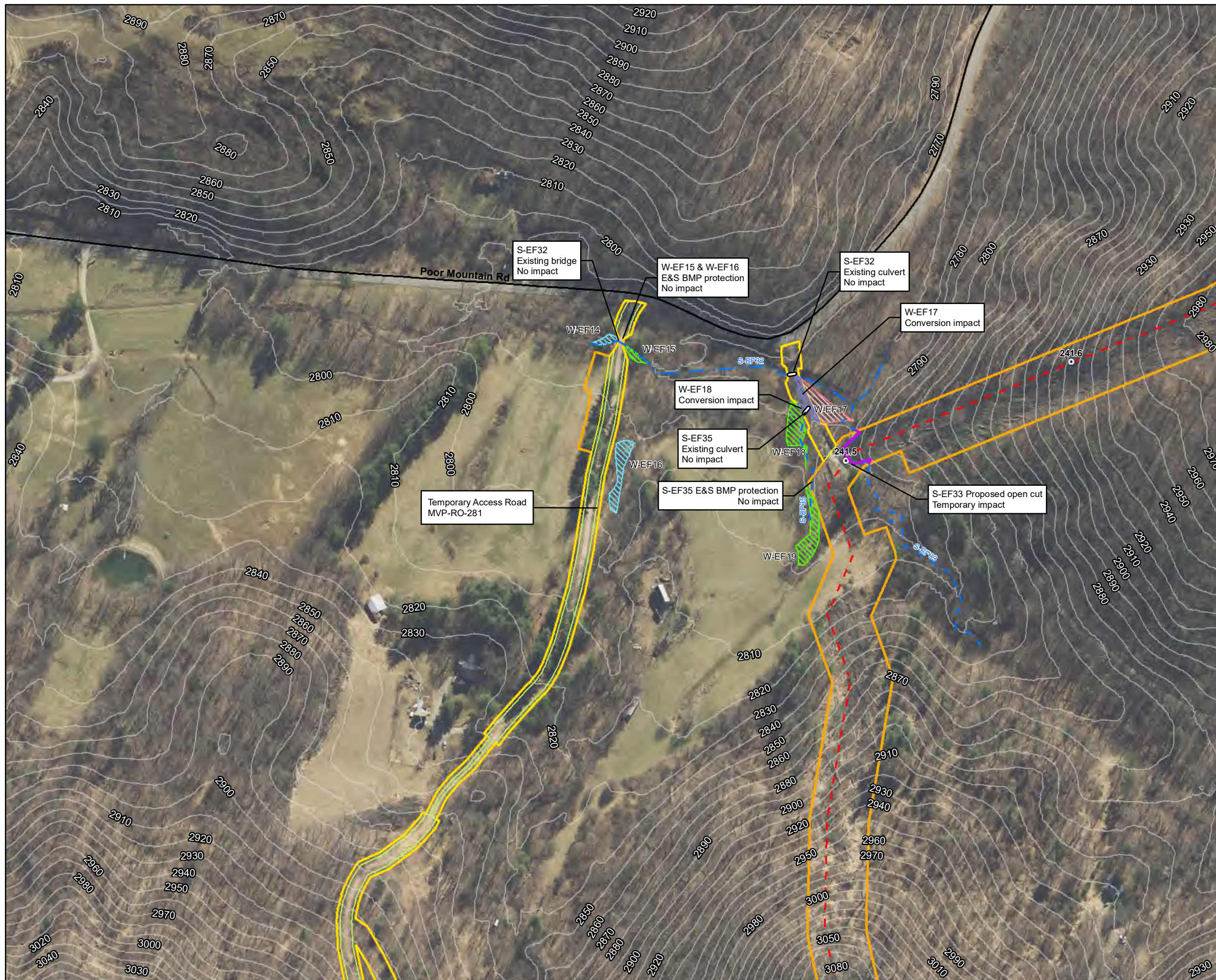
Detail Map
Individual Permit Application

Figure 4-646
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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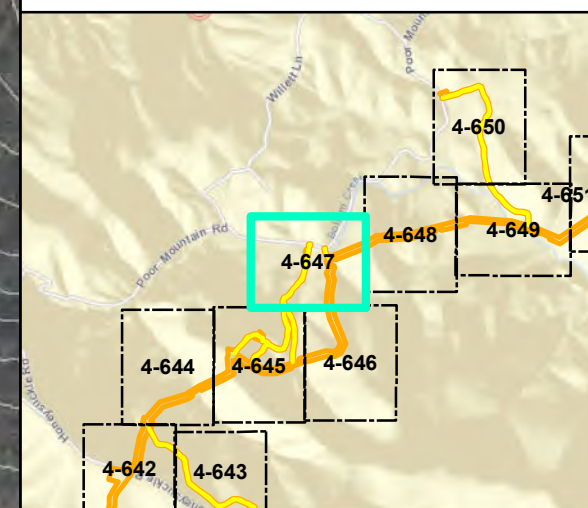
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— Alignment Centerline	▨ Wetland
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▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	— Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
— Stream	▨ Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

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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 4-647
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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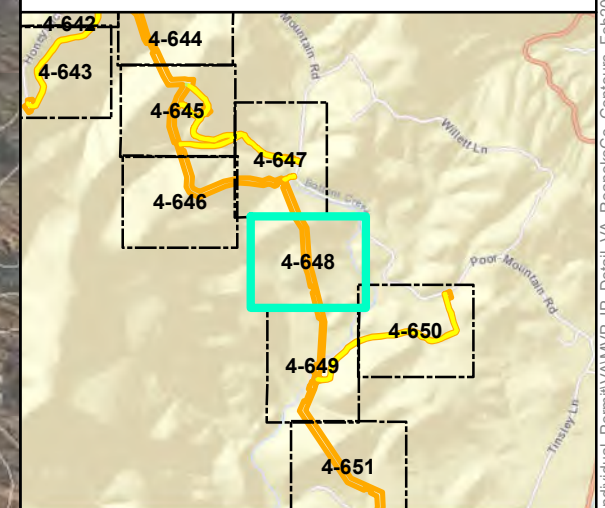
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- - - Alignment Centerline	▨ Wetland
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▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▨ Stream Impact
▭ Bore Pit	▨ Temporary
▭ Culvert	▨ Permanent
▭ Stream	▨ Wetland Impact
▭ Intermittent	▨ Temporary
▭ Ephemeral	▨ Conversion
▭ Perennial	▨ Permanent Fill

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NAD 1983 UTM 17N
1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project



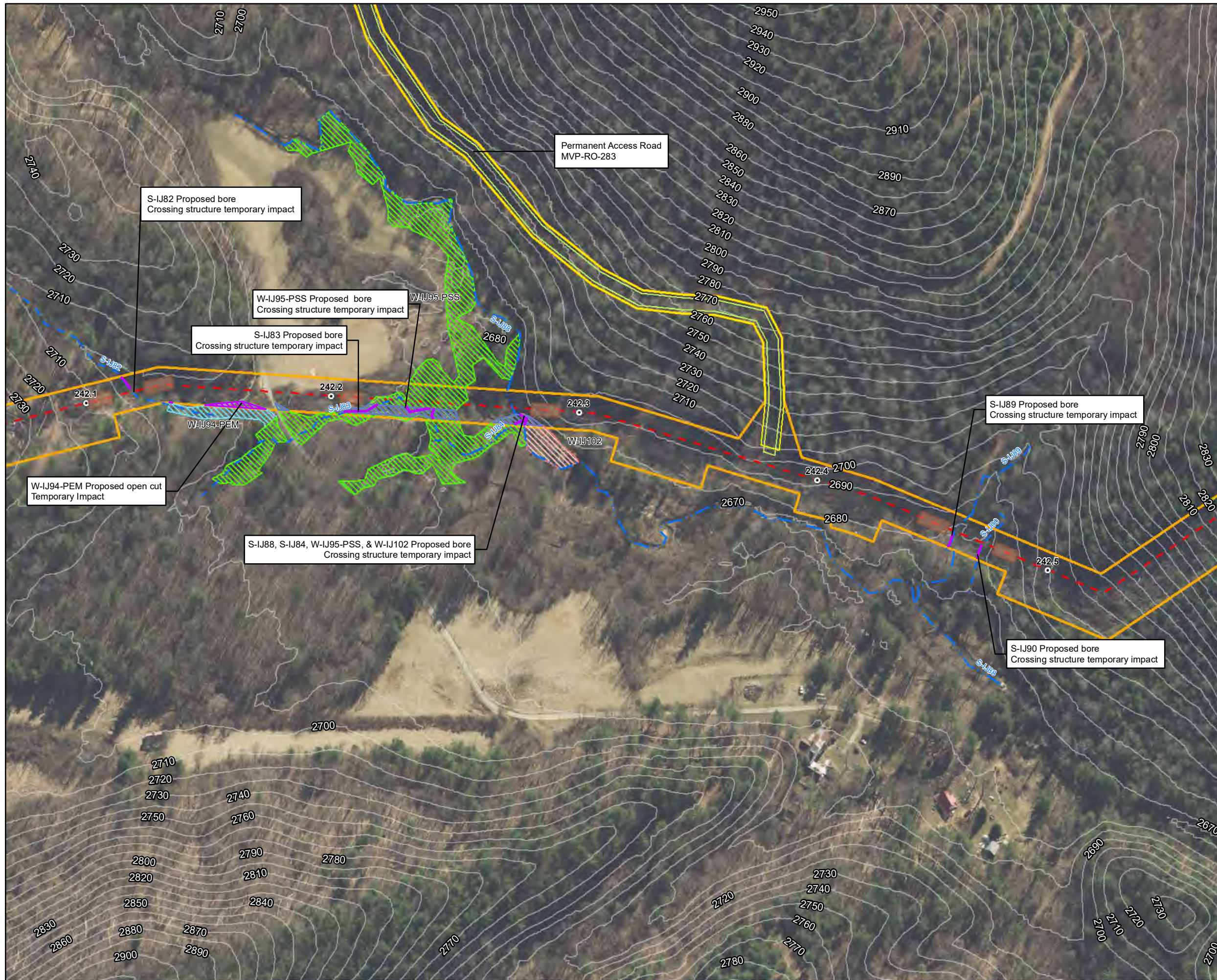
Detail Map
Individual Permit Application

Figure 4-648
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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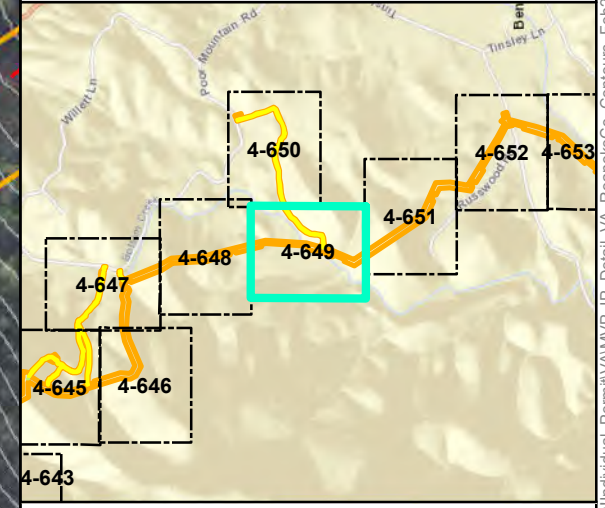
○ Milepost	▨ Pond
- - - Alignment Centerline	▨ Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▨ Stream Impact
▭ Bore Pit	▨ Temporary
▭ Culvert	▨ Permanent
▭ Stream	▨ Wetland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

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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 4-649
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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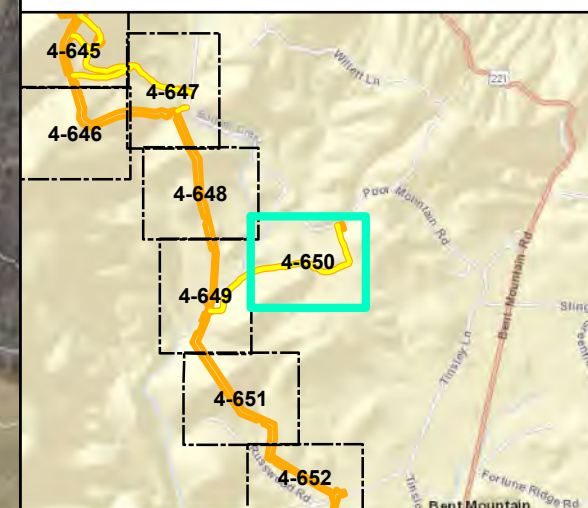
○ Milepost	▨ Pond
- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact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

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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 4-650
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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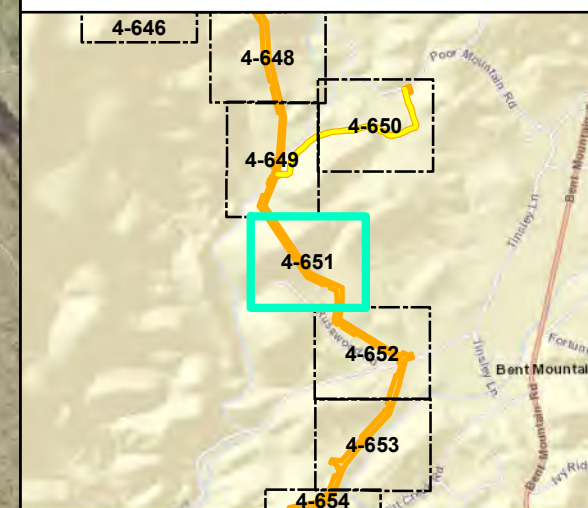


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○ Milepost	▨ Pond
- - - Alignment Centerline	▨ Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▨ Stream Impact
▭ Bore Pit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

Note:
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NAD 1983 UTM 17N
1 in = 200 ft



Mountain Valley Pipeline Project

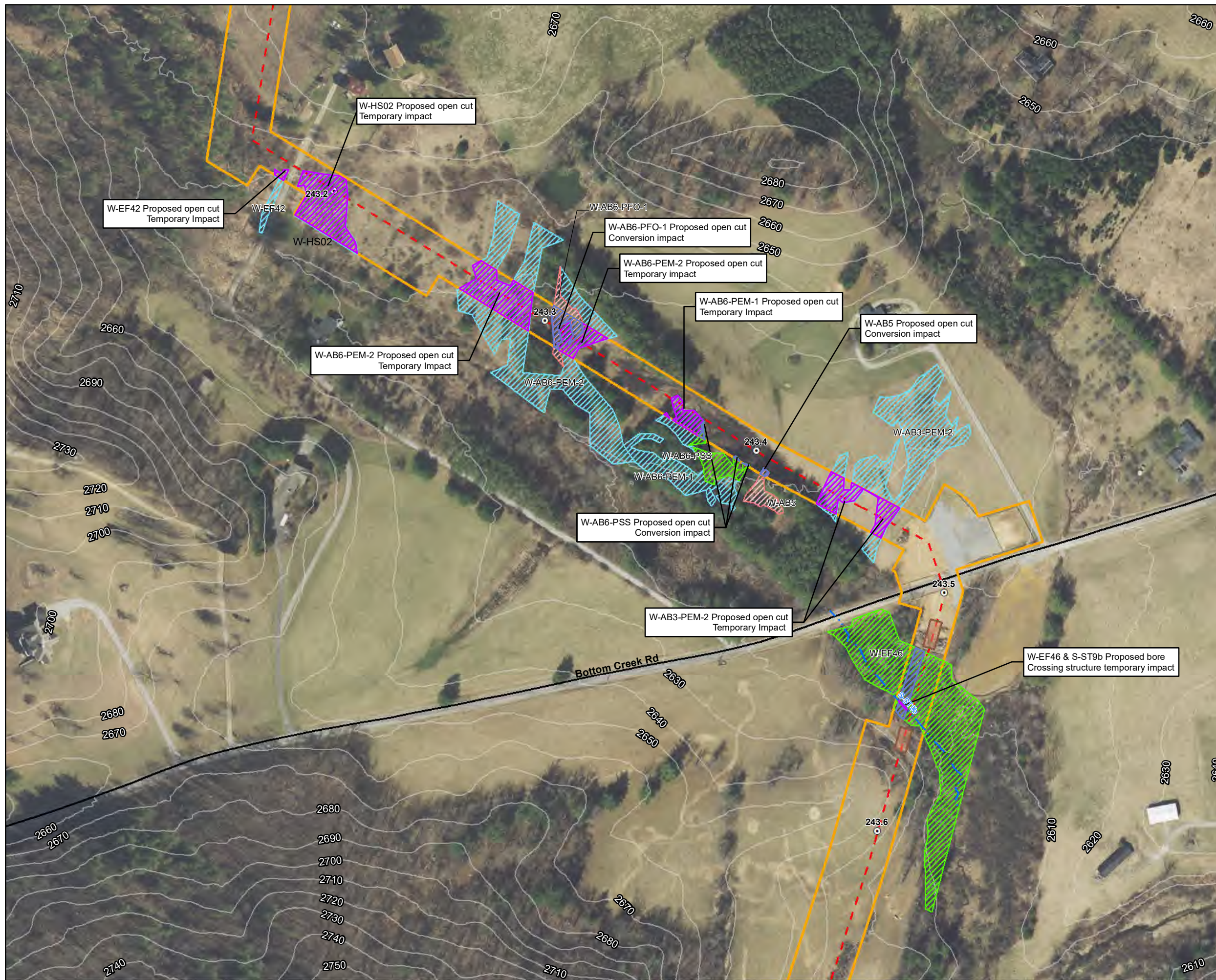
Detail Map Individual Permit Application

Figure 4-651
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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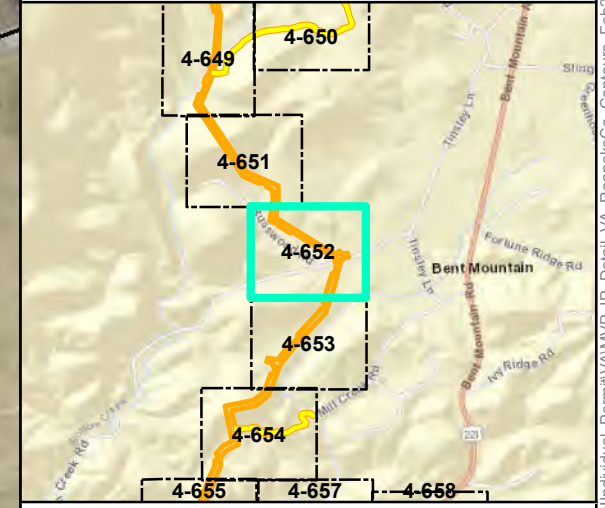
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- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
■ Bore Pit	— Temporary
— Culvert	— Permanent
— Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

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NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

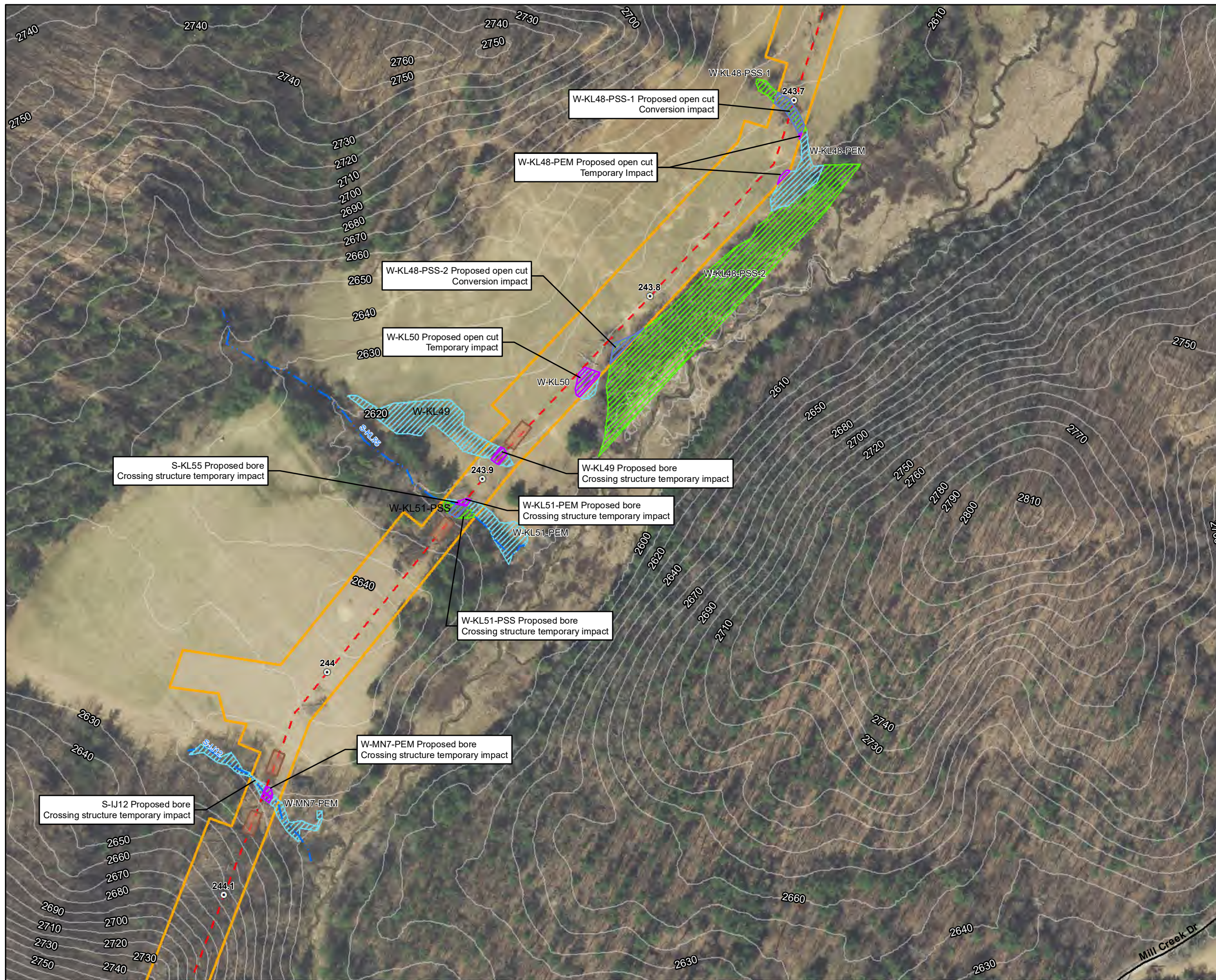
Detail Map
Individual Permit Application

Figure 4-652
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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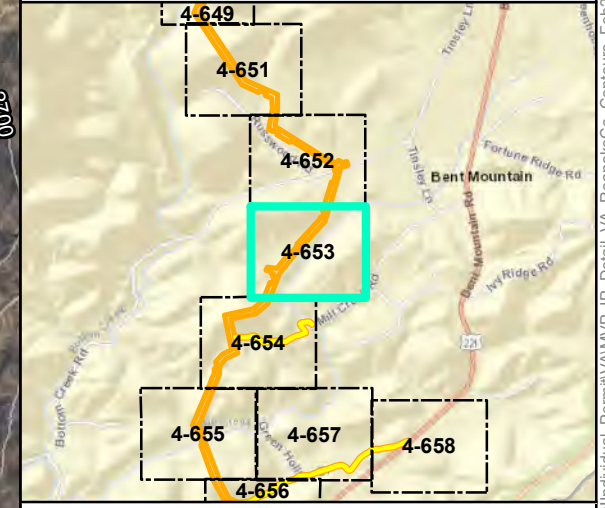
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- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
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▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
— Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

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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 4-653
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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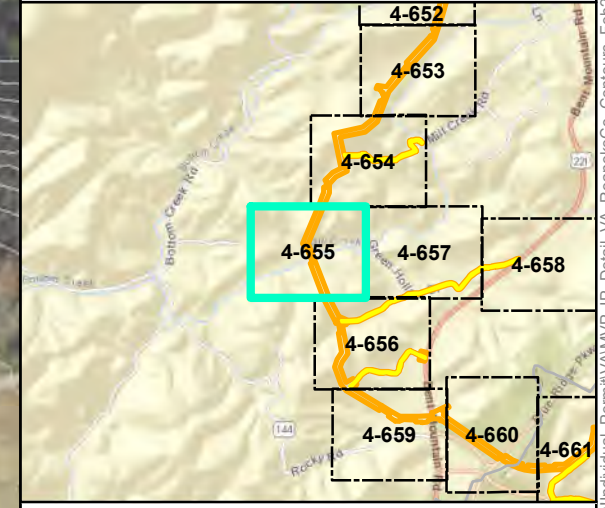
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- - - Alignment Centerline	▨ Wetland
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▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	▨ Stream Impact
▭ Bore Pit	▨ Temporary
▭ Culvert	▨ Permanent
▨ Stream	▨ Wetland Impact
▨ Intermittent	▨ Temporary
▨ Ephemeral	▨ Conversion
▨ Perennial	▨ Permanent Fill

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

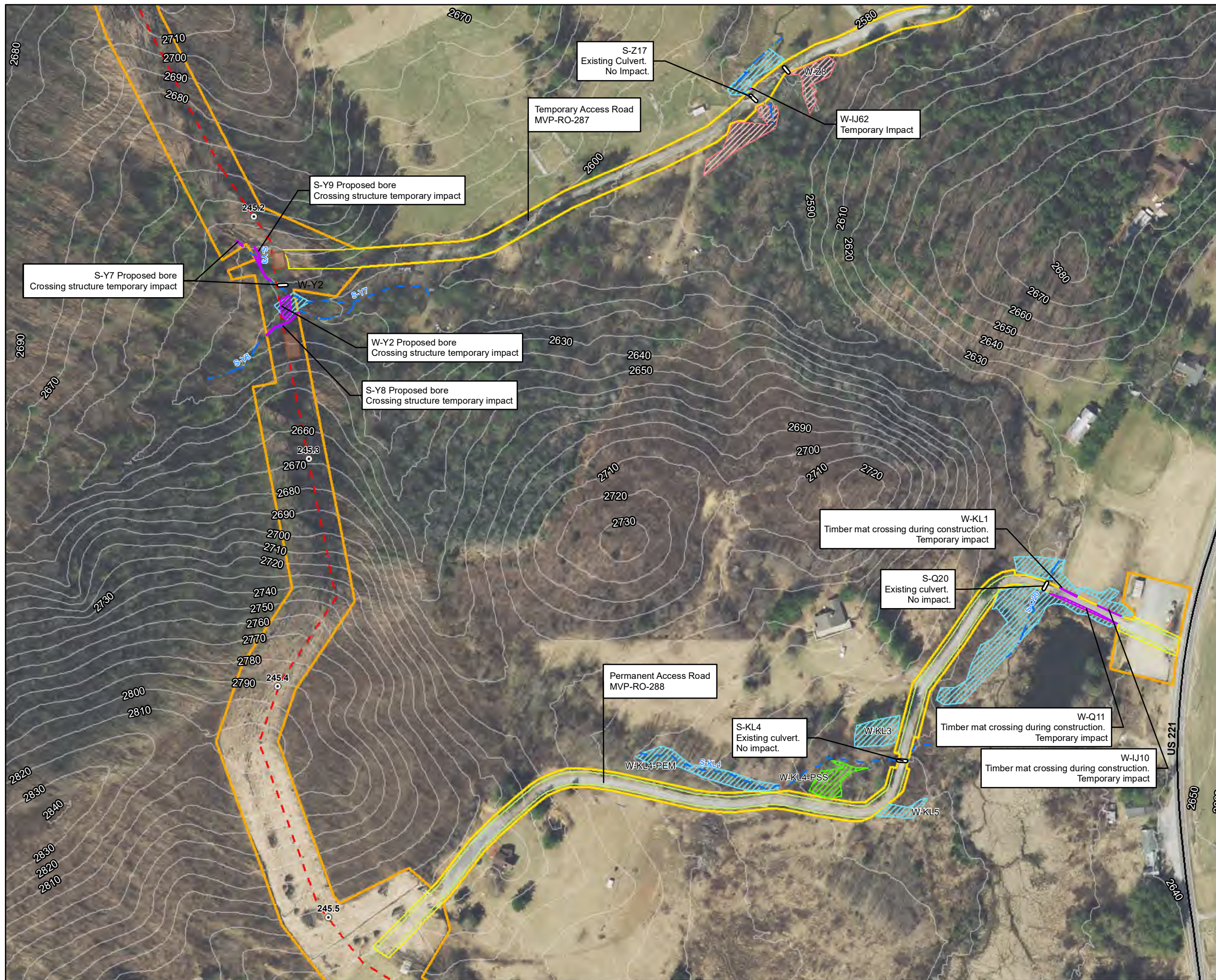
Detail Map
Individual Permit Application

Figure 4-655
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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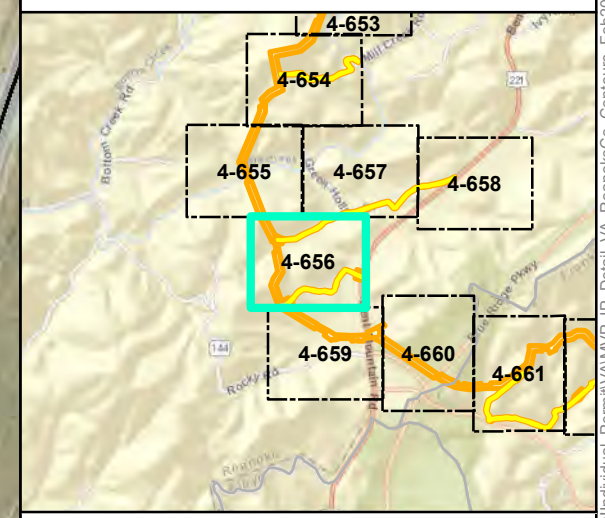
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- - - Alignment Centerline	Wetland
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▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
▭ Culvert	— Permanent
Stream	Wetland Impact
— Intermittent	▨ Temporary
— Ephemeral	▨ Conversion
— Perennial	▨ Permanent Fill

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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 4-656
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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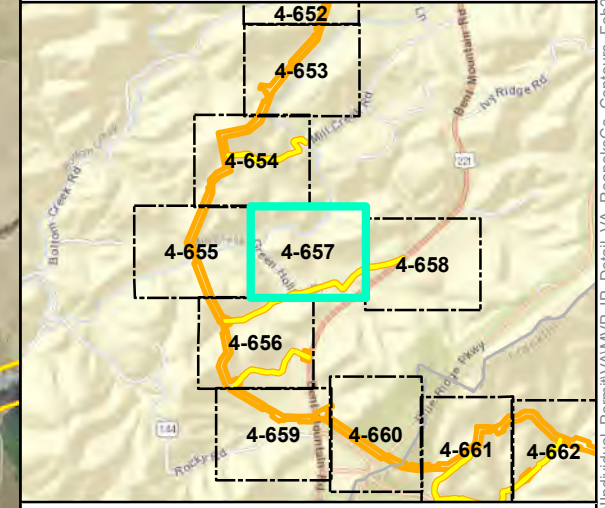
○ Milepost	▨ Pond
- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
▭ Bore Pit	— Temporary
▭ Culvert	— Permanent
Stream	Wetland Impact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

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 4-657
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

- S-Z16 Existing culvert No impact
- W-Z6 Conversion impact
- S-Z16-1 Existing culvert No impact
- W-Z7 Conversion impact

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Legend

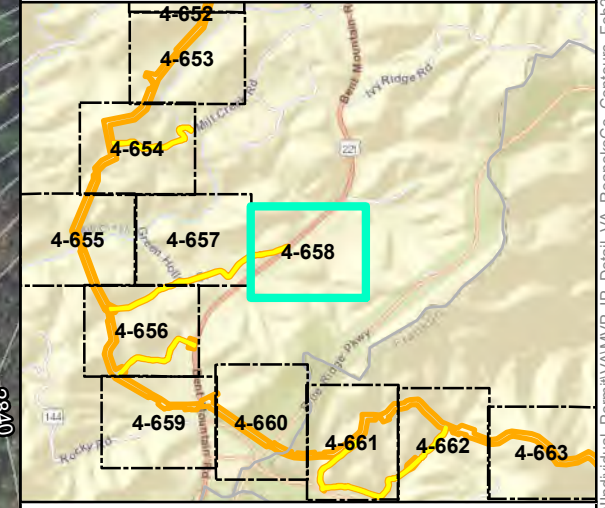
○ Milepost	▨ Pond
- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
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NAD 1983 UTM 17N

1 in = 200 ft

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

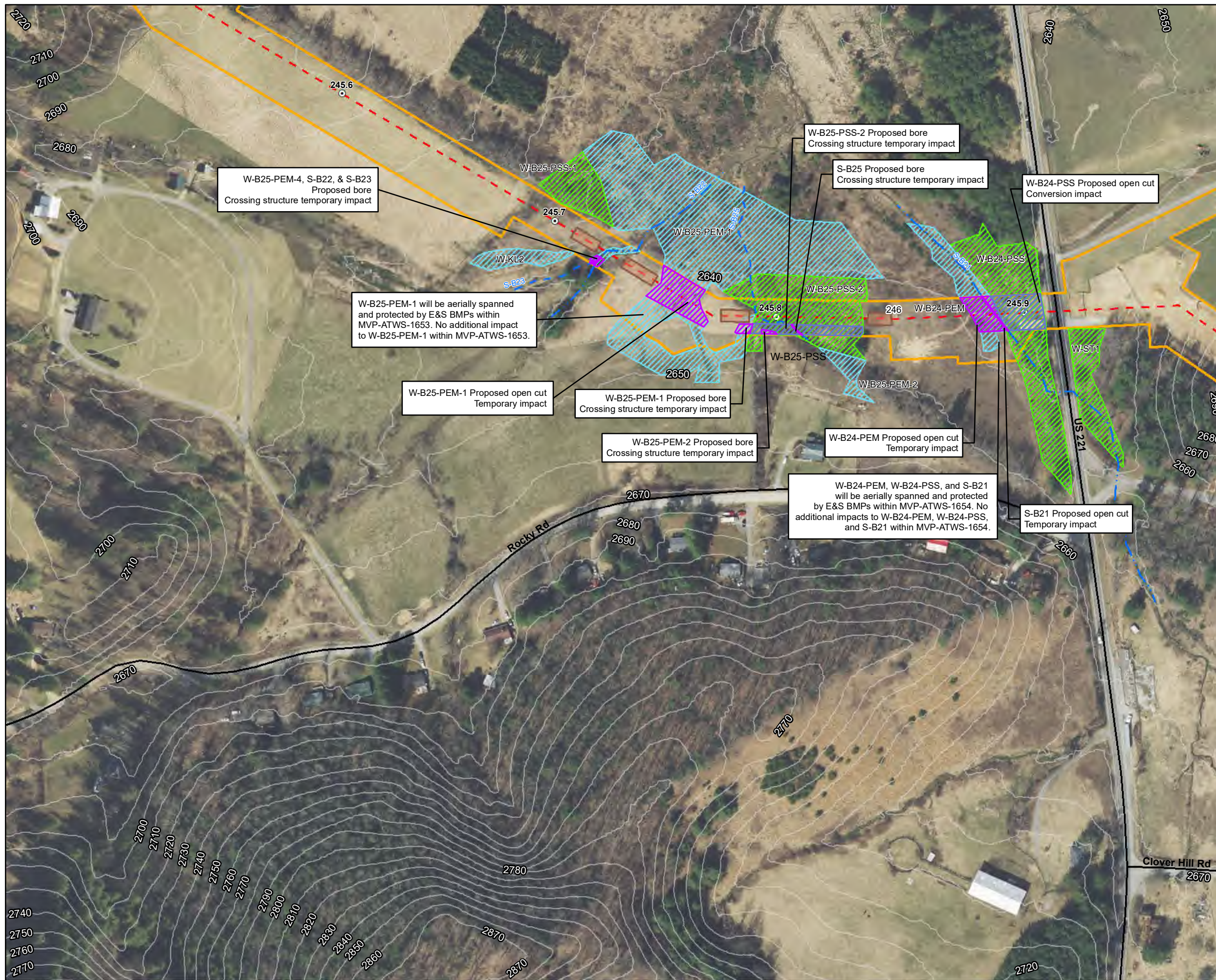
Detail Map
Individual Permit Application

Figure 4-658
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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W-B25-PEM-4, S-B22, & S-B23
Proposed bore
Crossing structure temporary impact

W-B25-PEM-1 will be aerially spanned
and protected by E&S BMPs within
MVP-ATWS-1653. No additional impact
to W-B25-PEM-1 within MVP-ATWS-1653.

W-B25-PEM-1 Proposed open cut
Temporary impact

W-B25-PEM-1 Proposed bore
Crossing structure temporary impact

W-B25-PEM-2 Proposed bore
Crossing structure temporary impact

W-B24-PEM, W-B24-PSS, and S-B21
will be aerially spanned and protected
by E&S BMPs within MVP-ATWS-1654. No
additional impacts to W-B24-PEM, W-B24-PSS,
and S-B21 within MVP-ATWS-1654.

S-B21 Proposed open cut
Temporary impact

W-B25-PSS-2 Proposed bore
Crossing structure temporary impact

S-B25 Proposed bore
Crossing structure temporary impact

W-B24-PSS Proposed open cut
Conversion impact

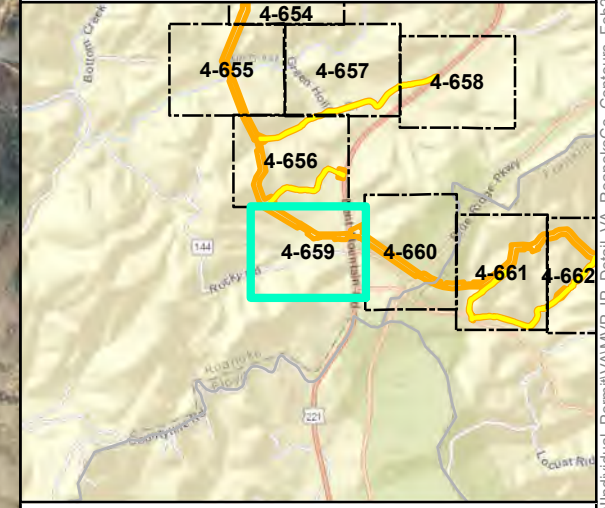
Legend

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

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 4-659
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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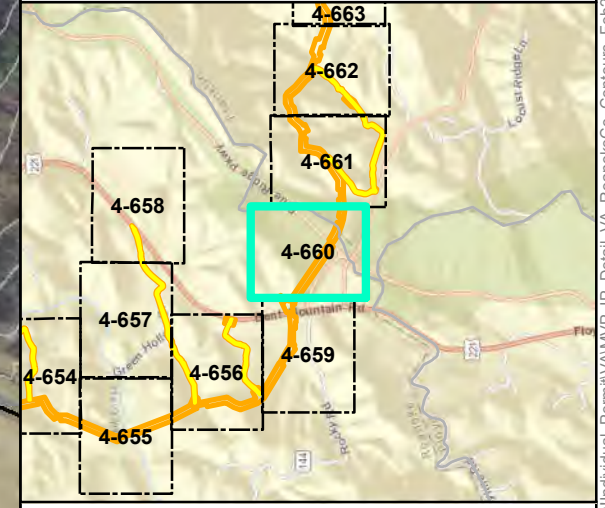
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○ Milepost	▨ Pond
- - - Alignment Centerline	Wetland
▭ Access Road Temporary LOD	▨ Palustrine Forested
▭ Access Road Permanent LOD	▨ Palustrine Emergent
▭ Permanent Facility	▨ Palustrine Scrub-Shrub
▭ Limit of Disturbance	Stream Impact
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Stream	Wetland Impact
— Intermittent	▨ Temporary
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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

200 160 120 80 40 0 200 Feet



Mountain Valley Pipeline Project

**Detail Map
Individual Permit Application**

Figure 4-660
Roanoke County, Virginia

February 2021

Data Sources: ESRI Streaming Data 2014. Elevation data derived from LIDAR provided by EQT 2016
Map Projection: NAD 1983 UTM 17N

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