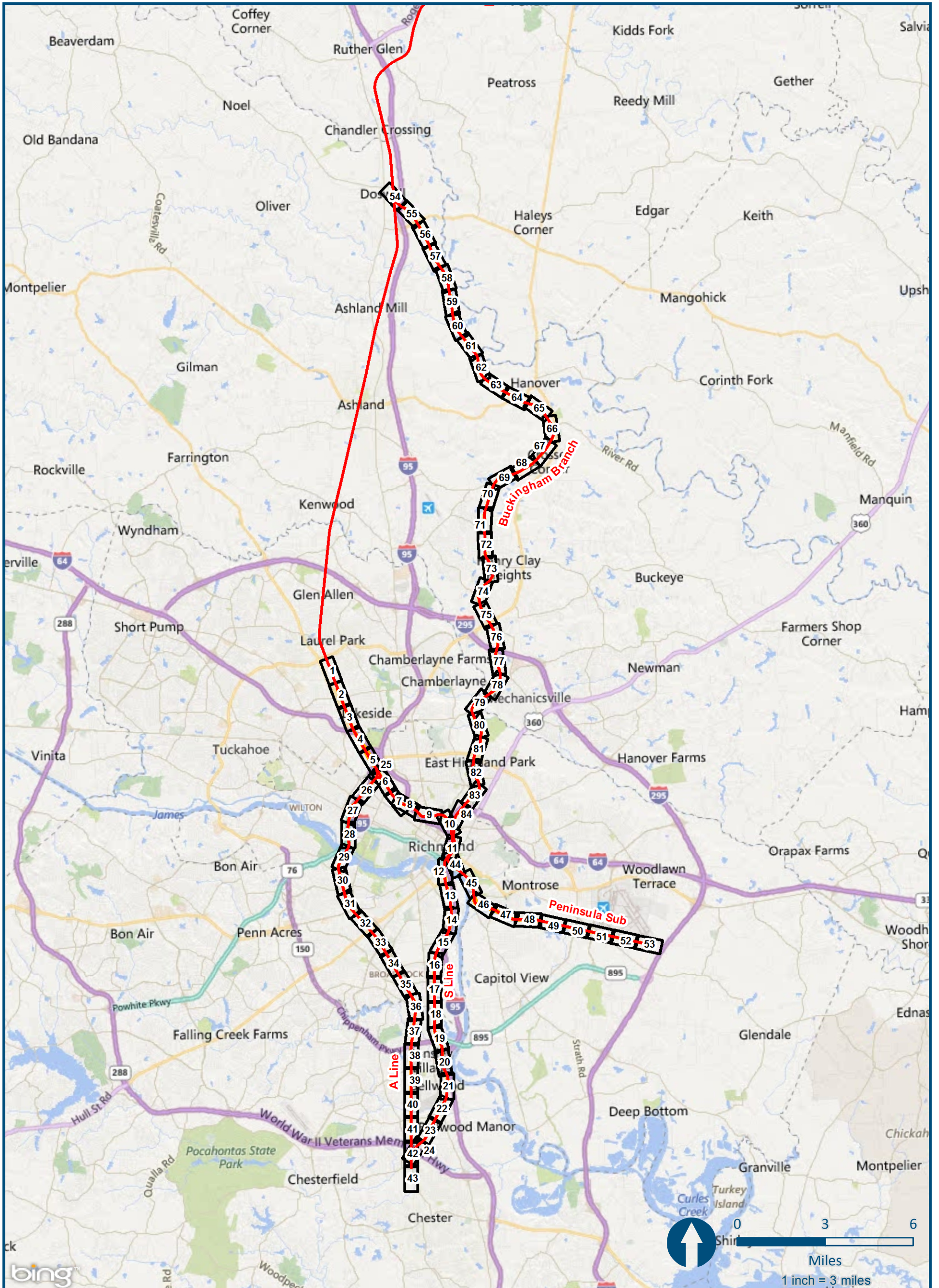


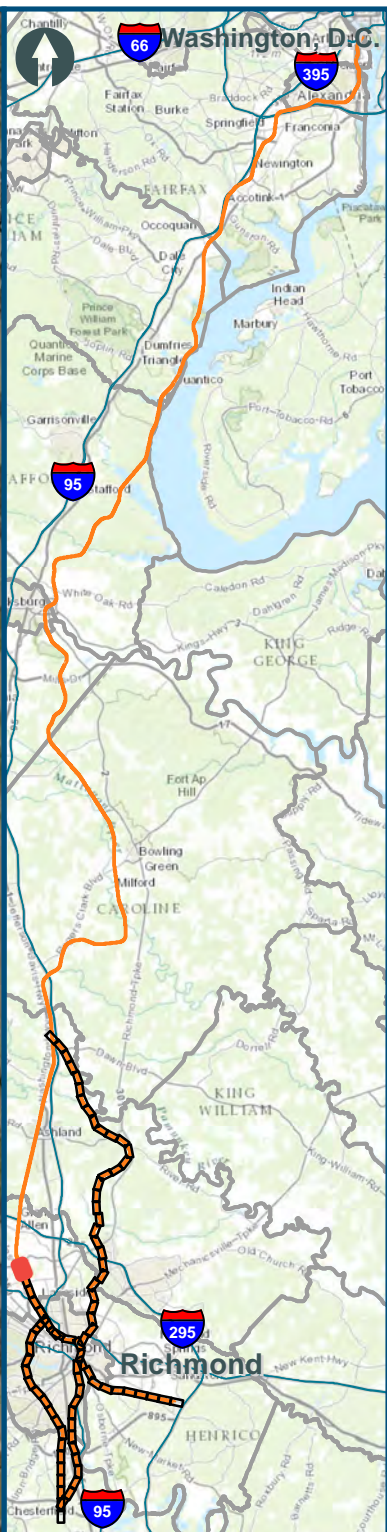
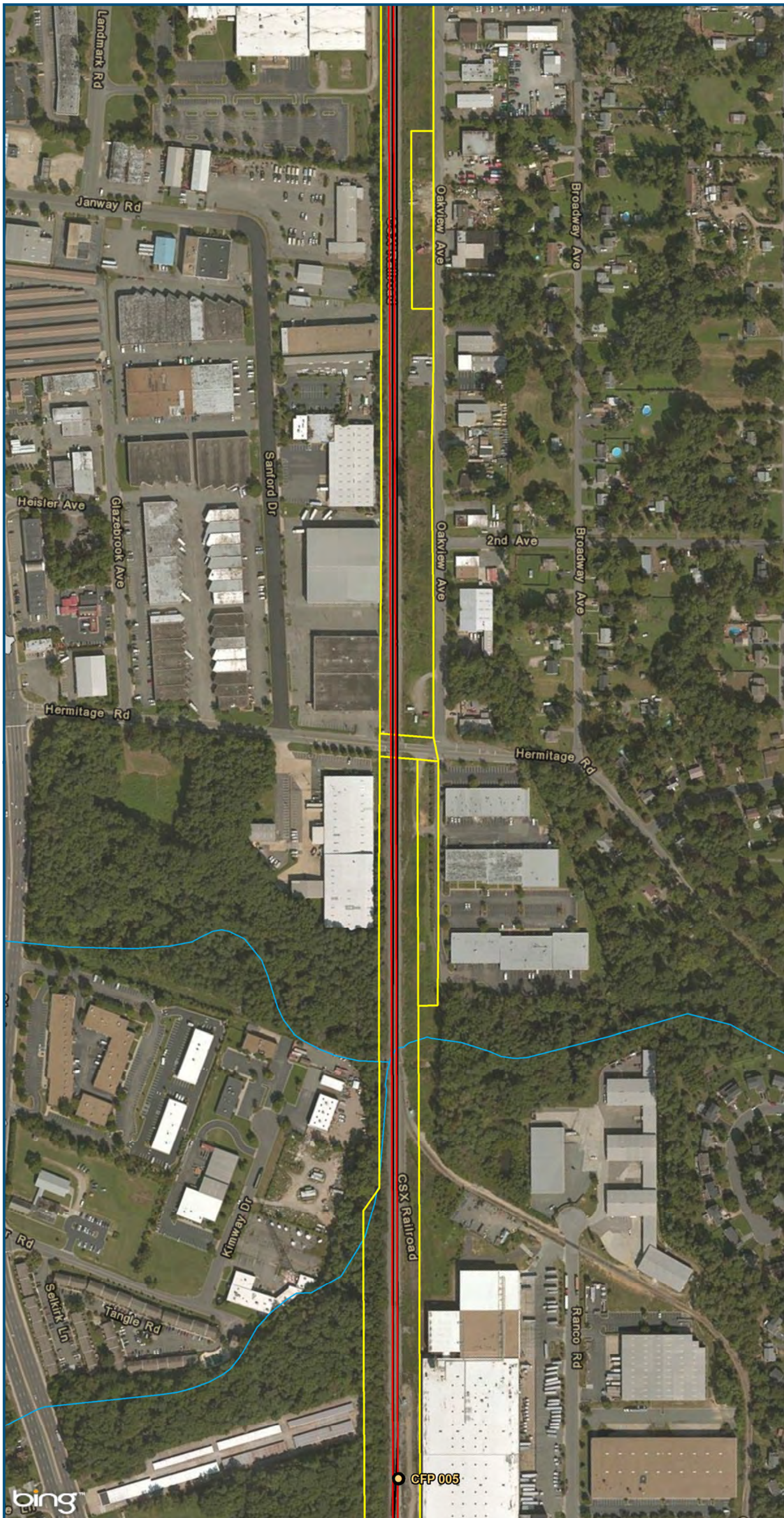
Richmond, Virginia (RIC) Project Section Constrained Alignment Option Index Map



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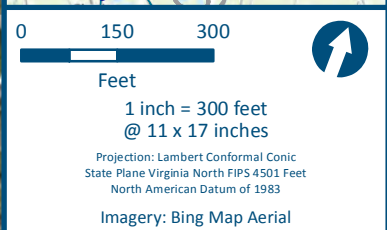
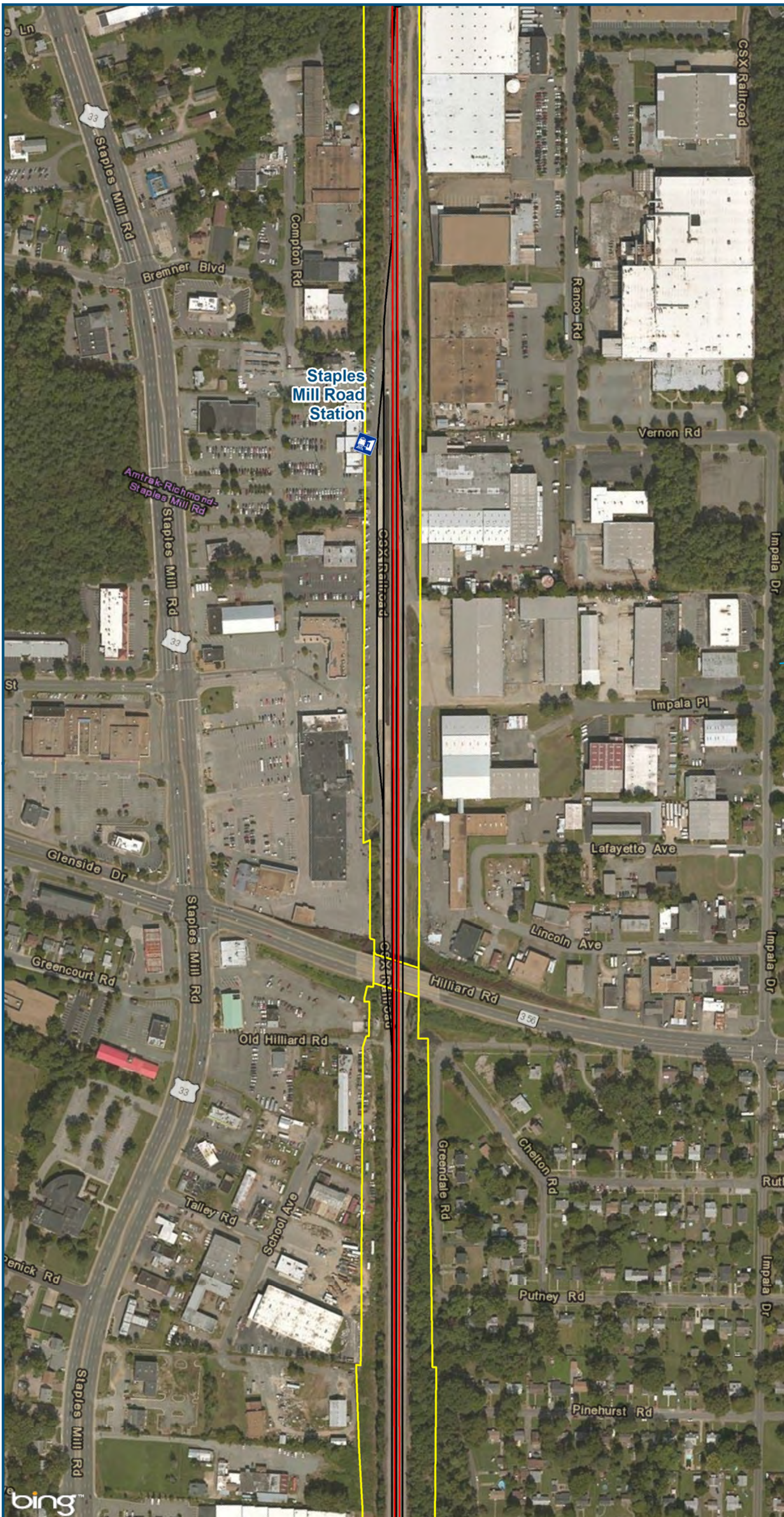


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-1
Richmond Segment
Constrained
Alignment Option

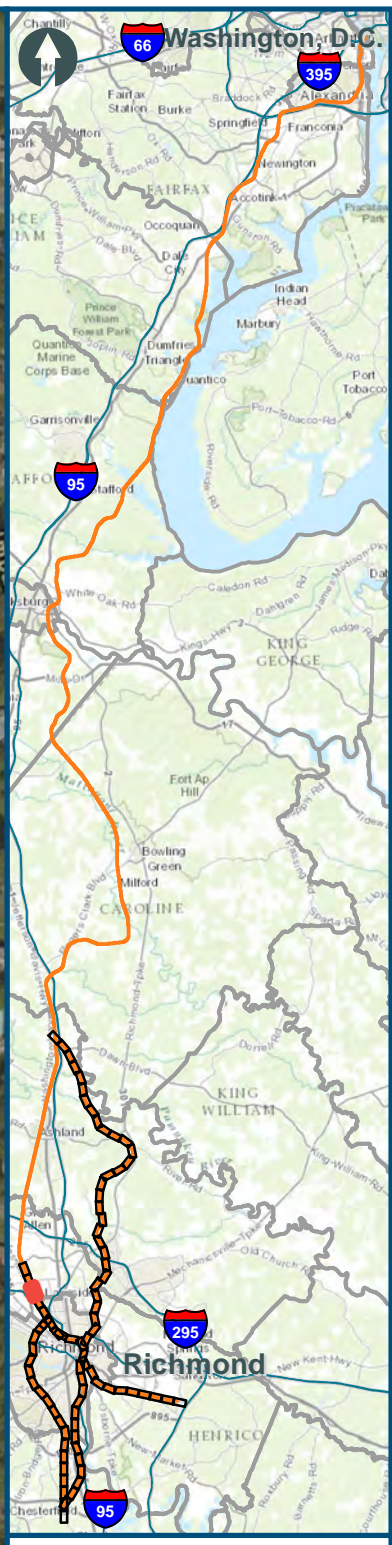
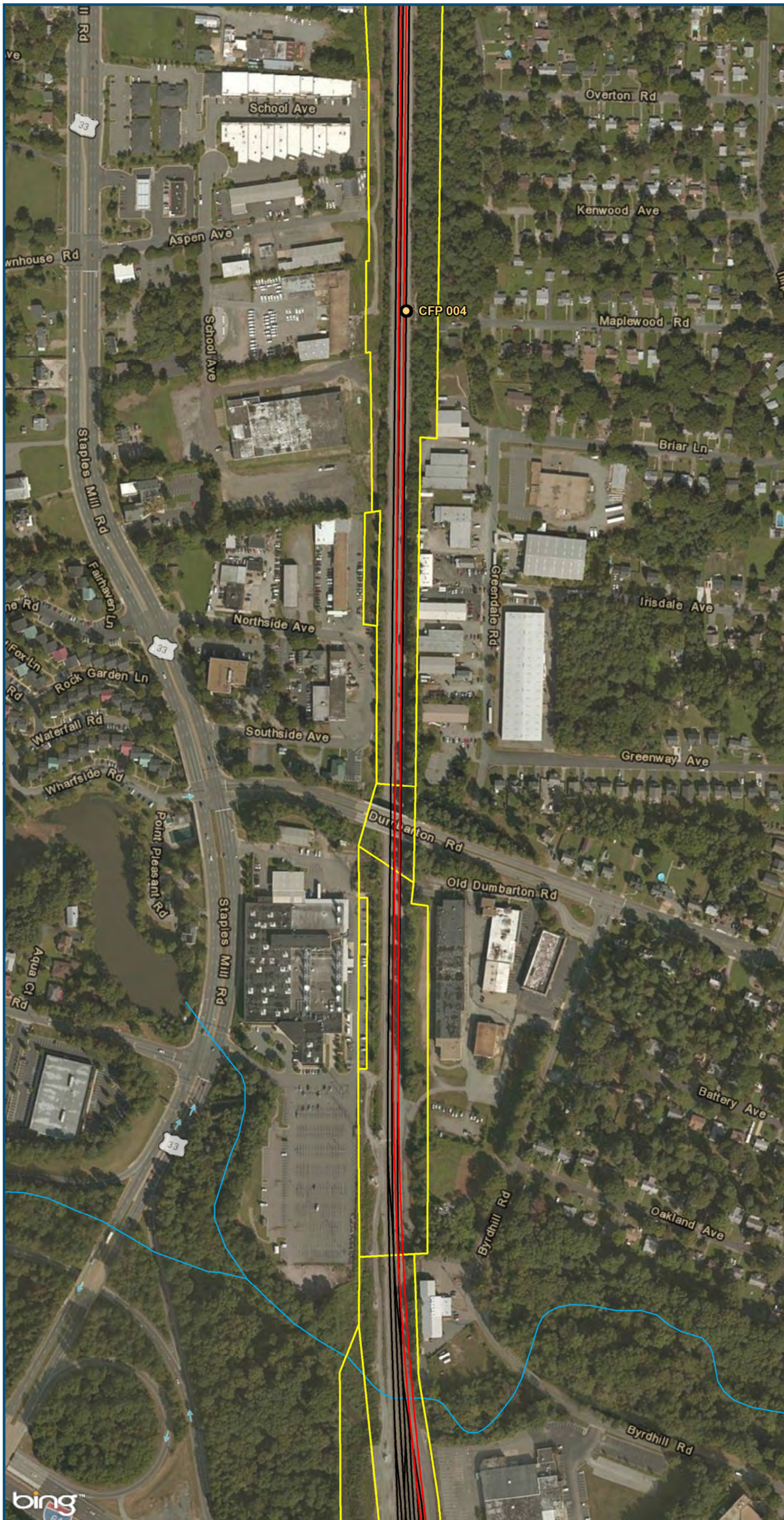


- Legend**
- Amtrak Station
 - CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

**Figure X-2
Richmond Segment
Constrained
Alignment Option**

\\cslsmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4\AIDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

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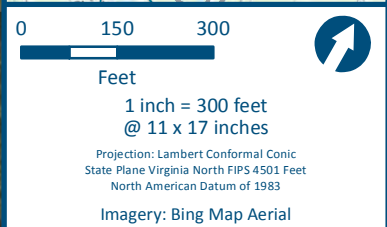
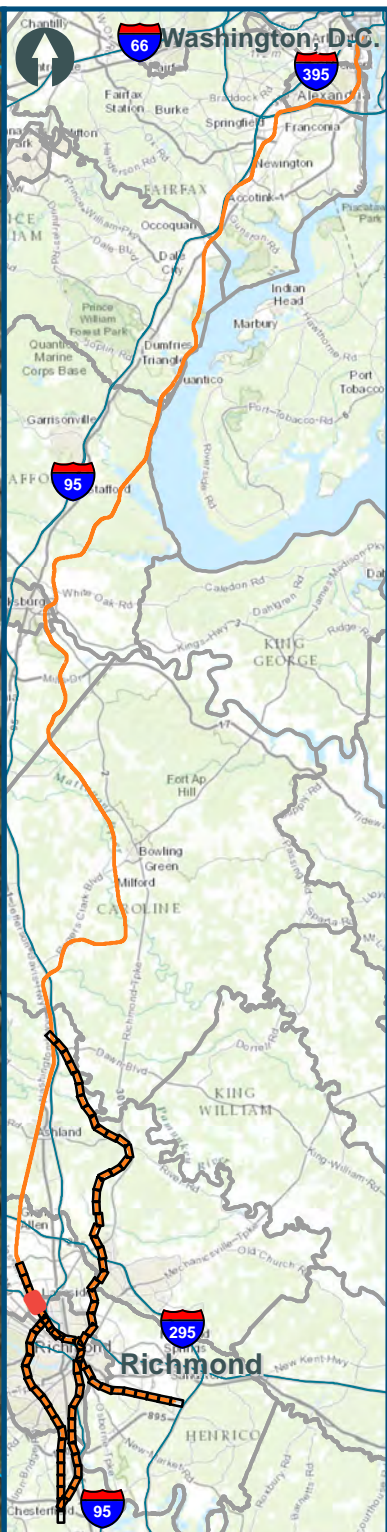


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-3
Richmond Segment
Constrained
Alignment Option

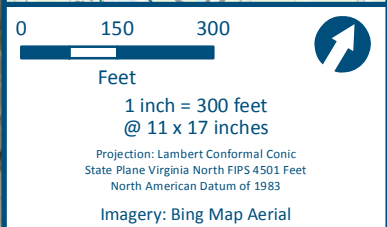
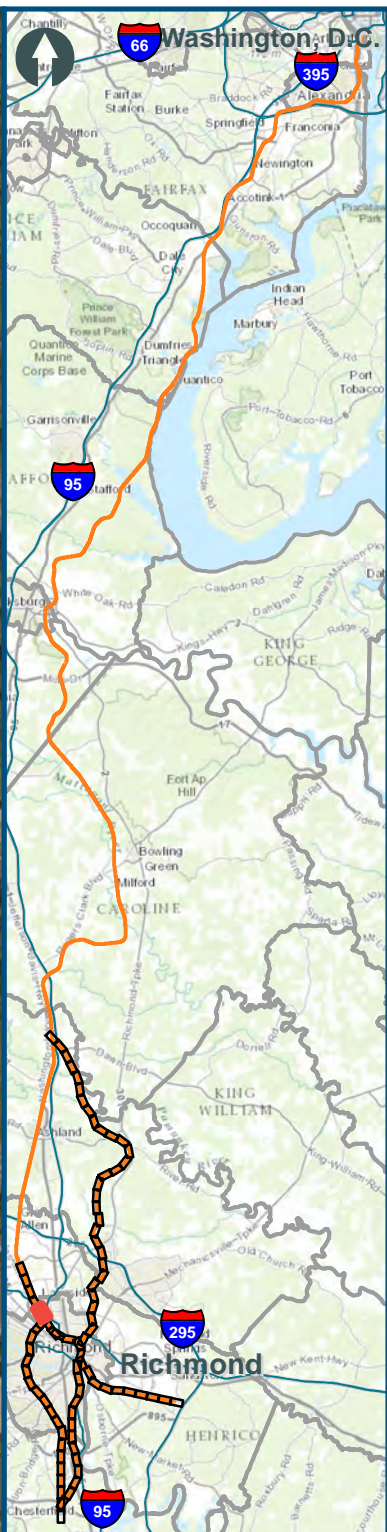
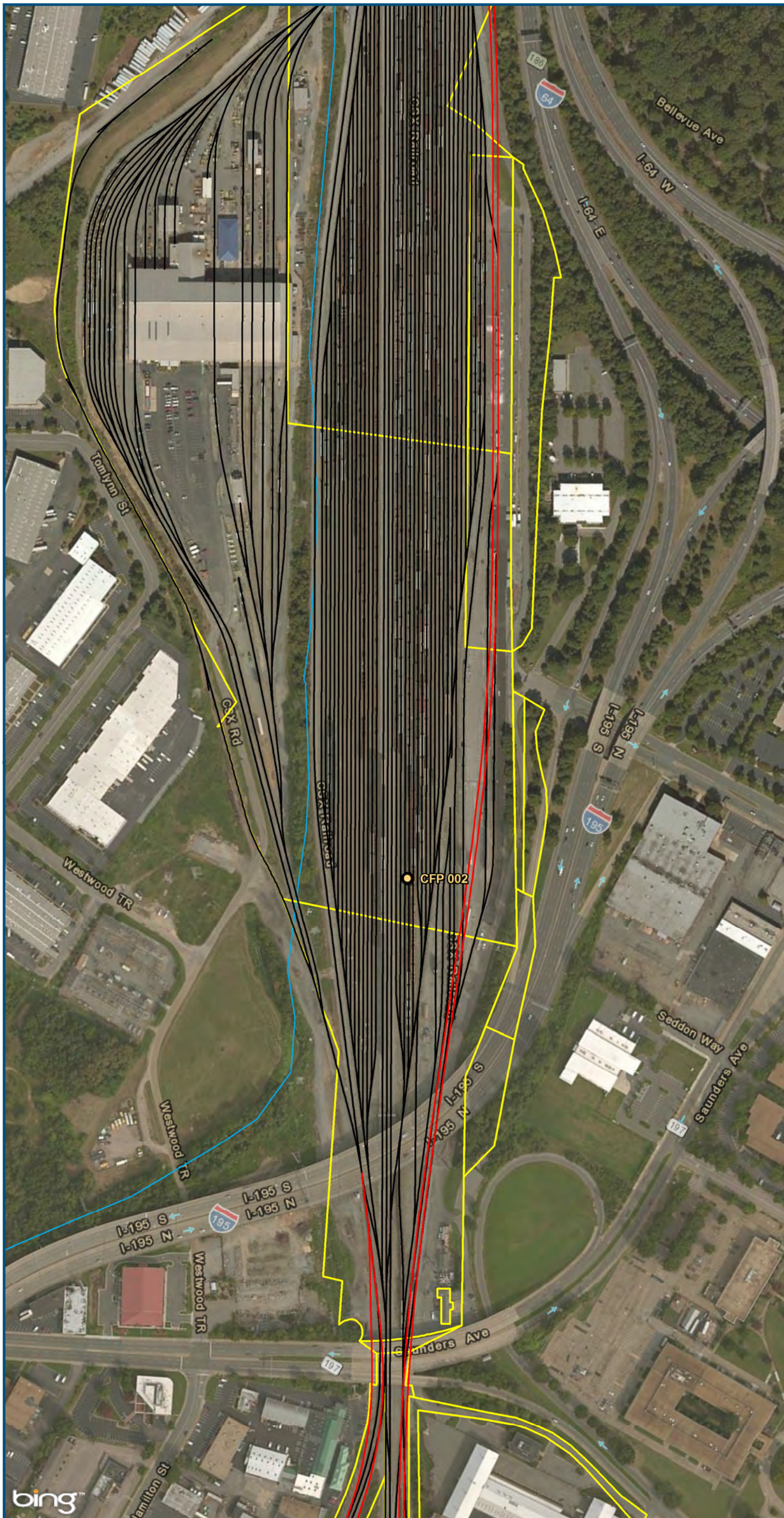
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

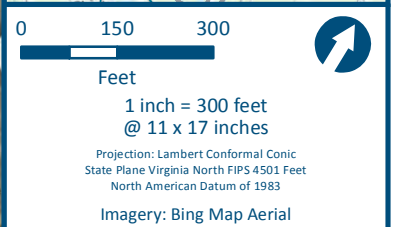
Figure X-4
Richmond Segment
Constrained
Alignment Option

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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

**Figure X-5
Richmond Segment
Constrained
Alignment Option**

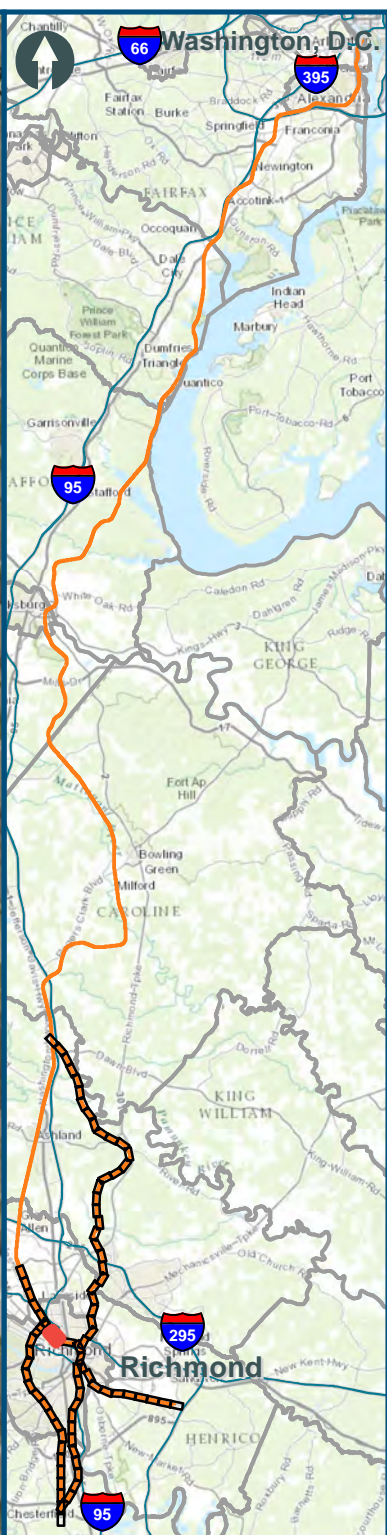
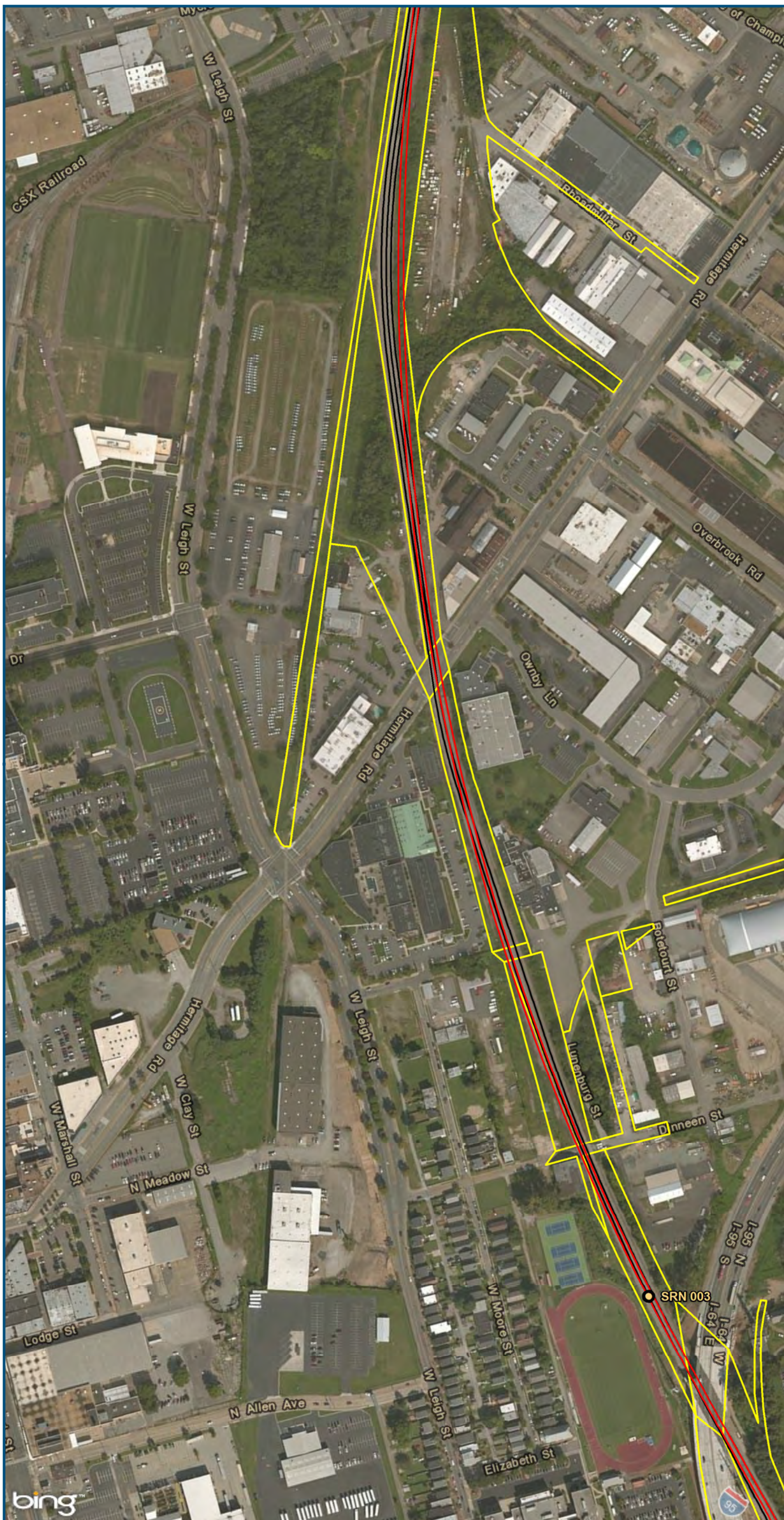


- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

**Figure X-6
Richmond Segment
Constrained
Alignment Option**

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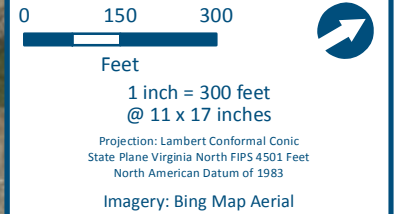
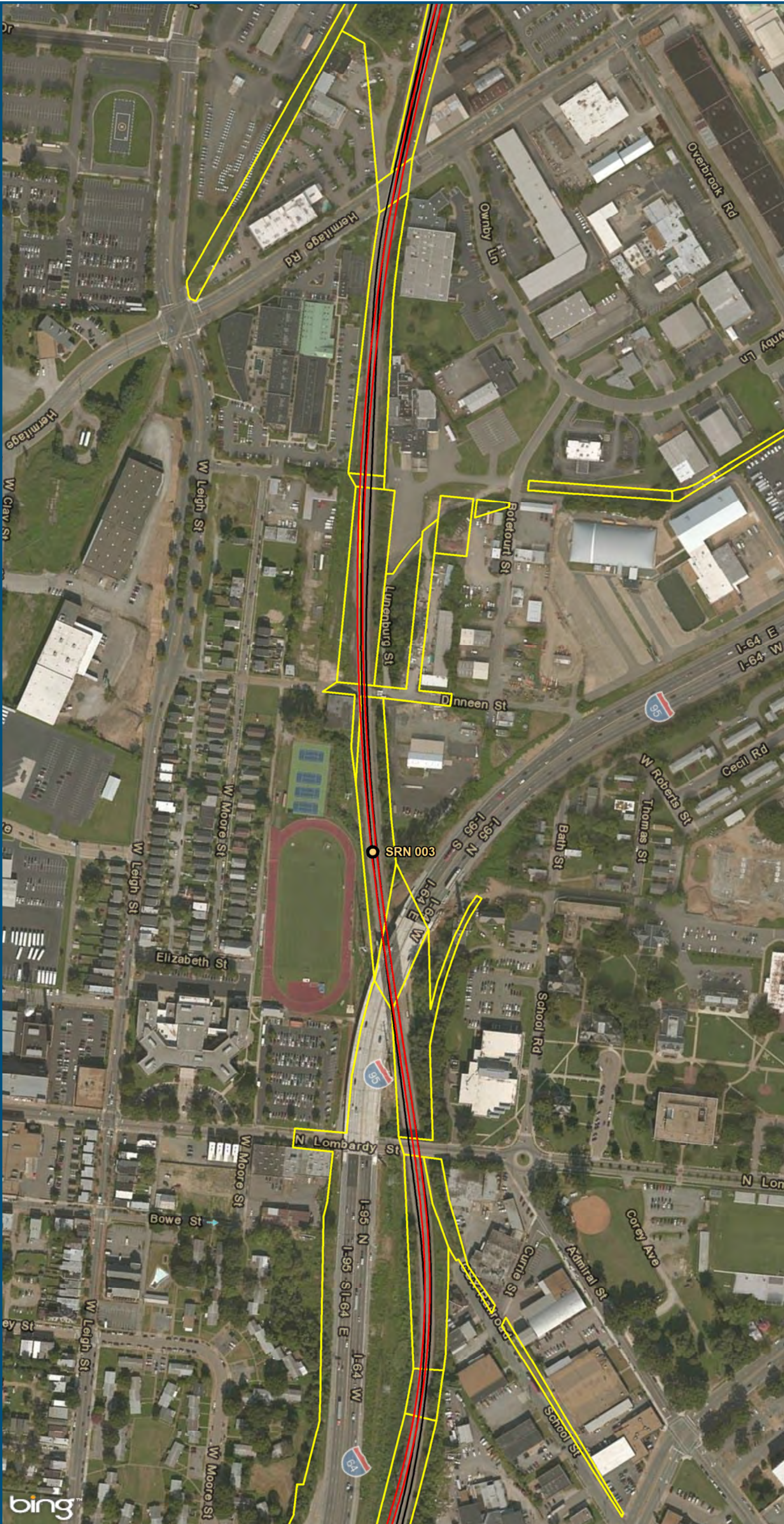


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

Figure X-7
Richmond Segment
Constrained
Alignment Option

\\cslsmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEngMap_doco\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

**Figure X-8
Richmond Segment
Constrained
Alignment Option**

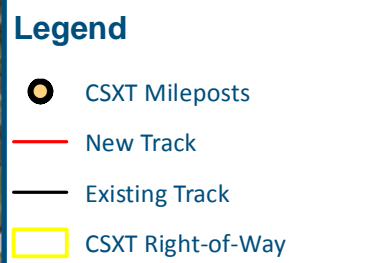
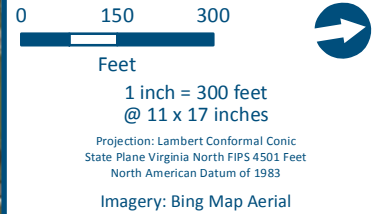
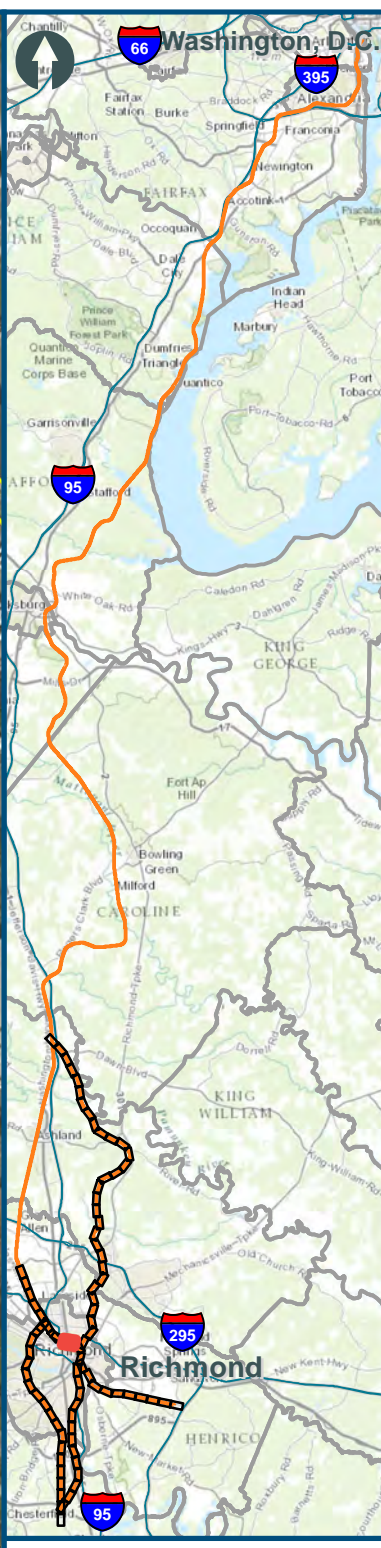
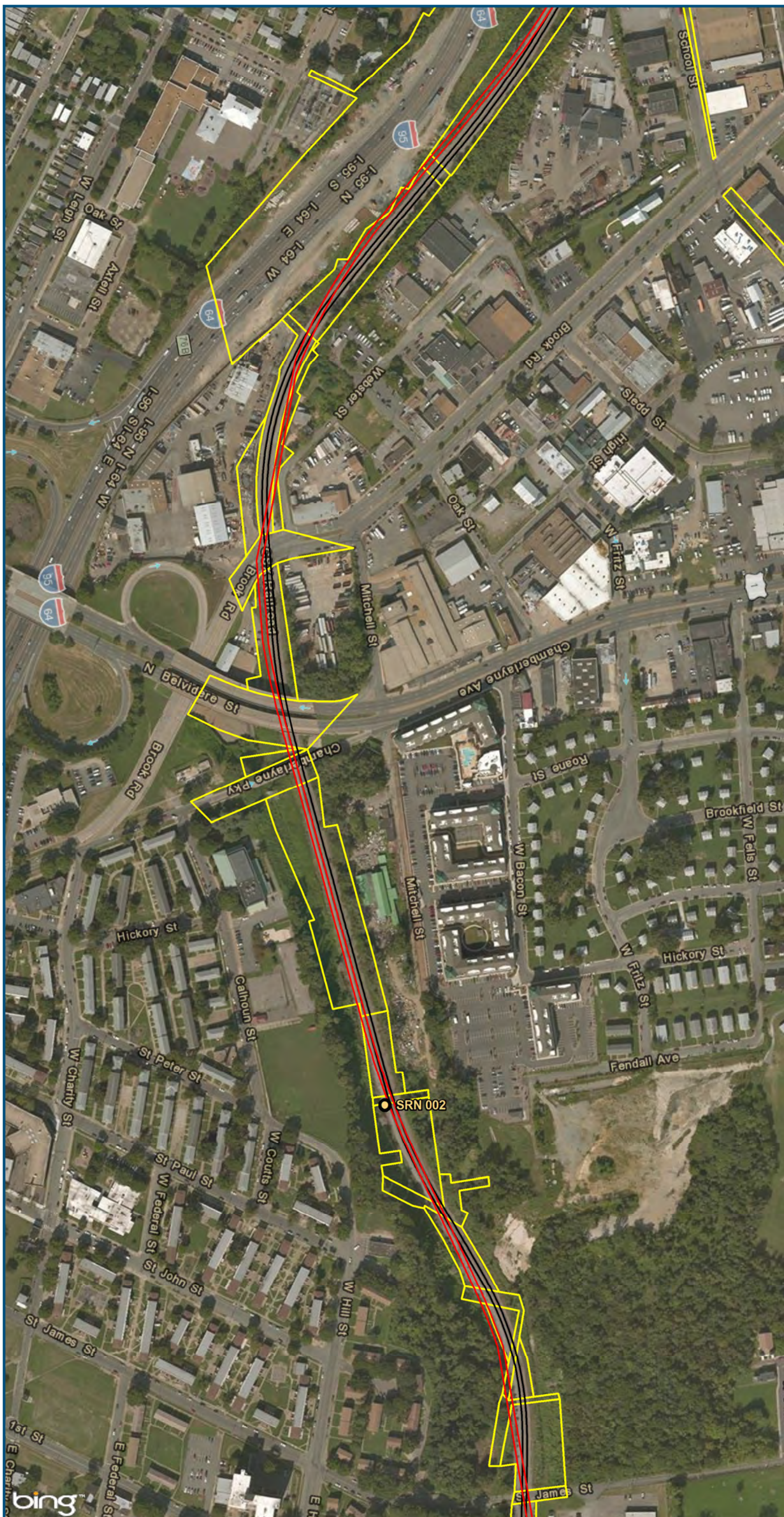
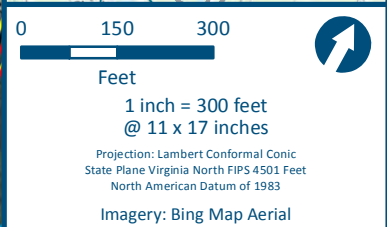
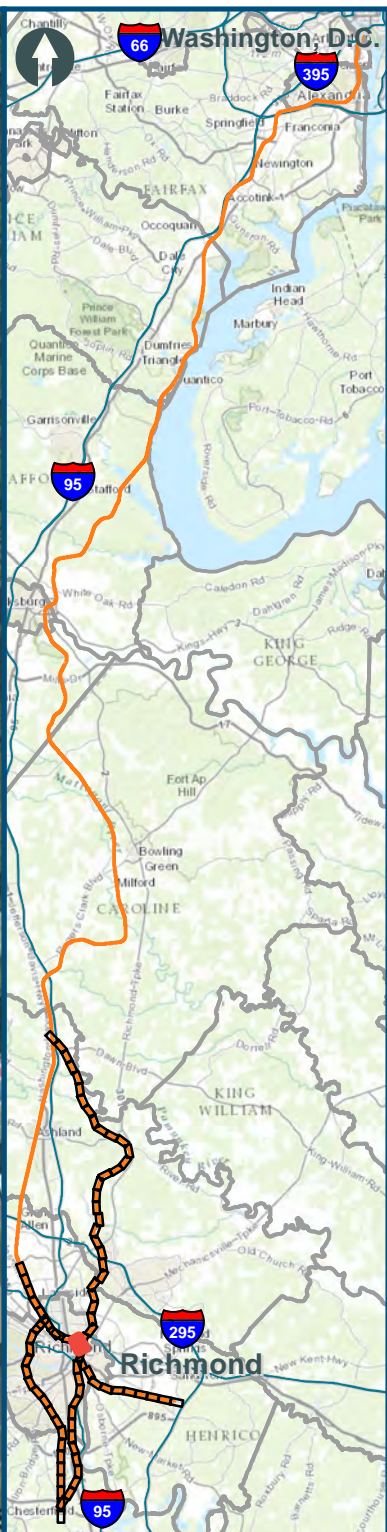
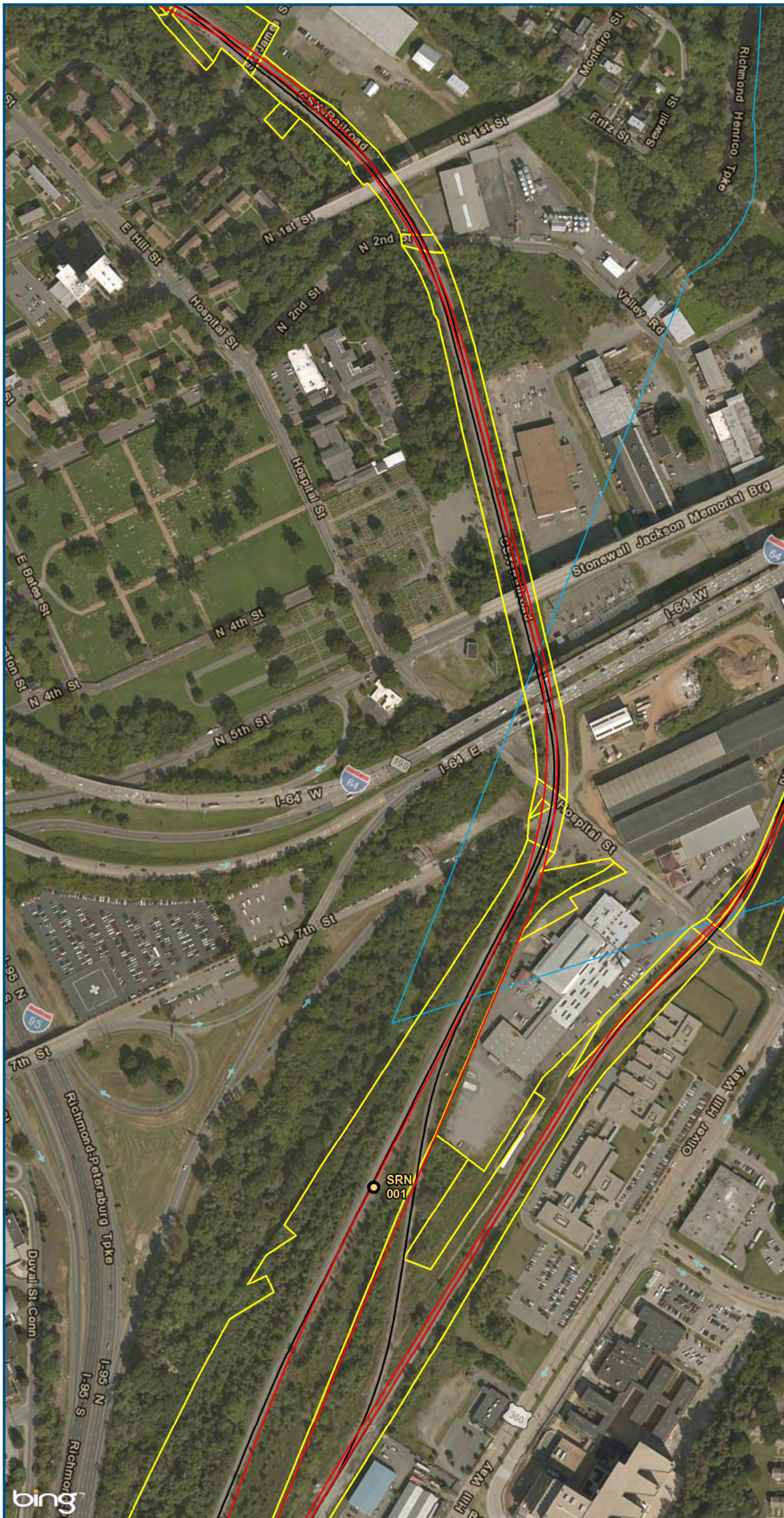


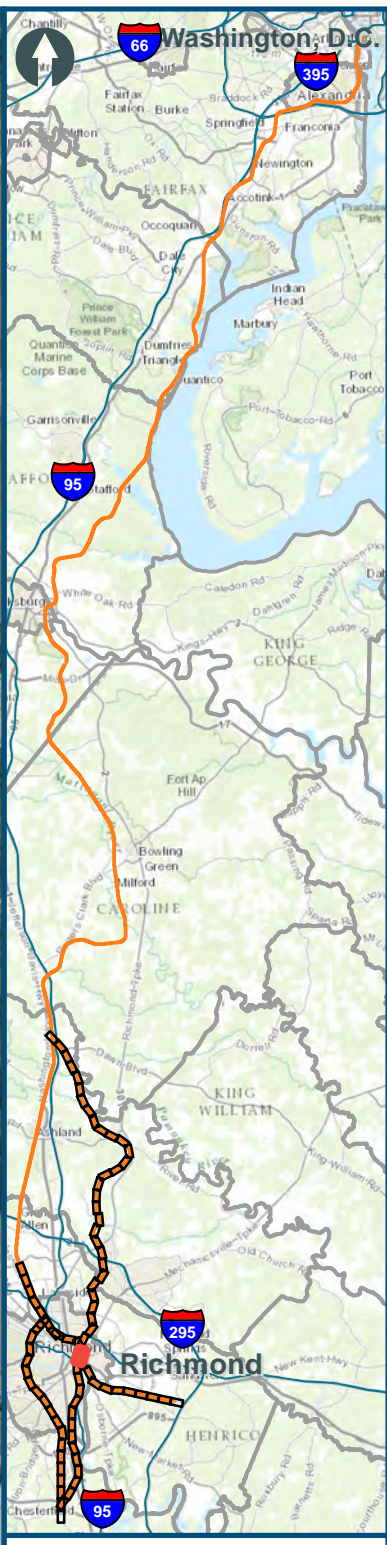
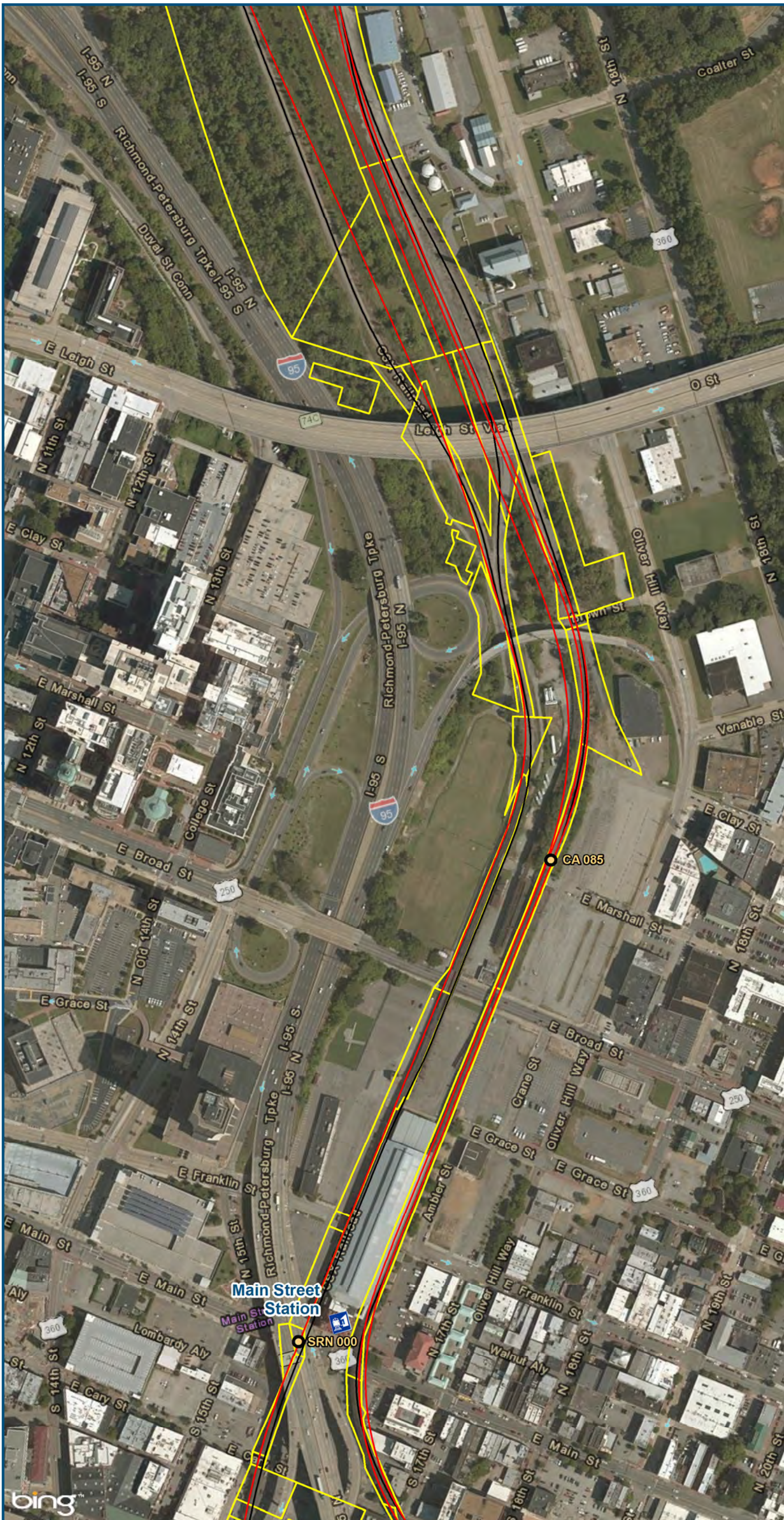
Figure X-9
Richmond Segment
Constrained
Alignment Option

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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-10
Richmond Segment
Constrained
Alignment Option

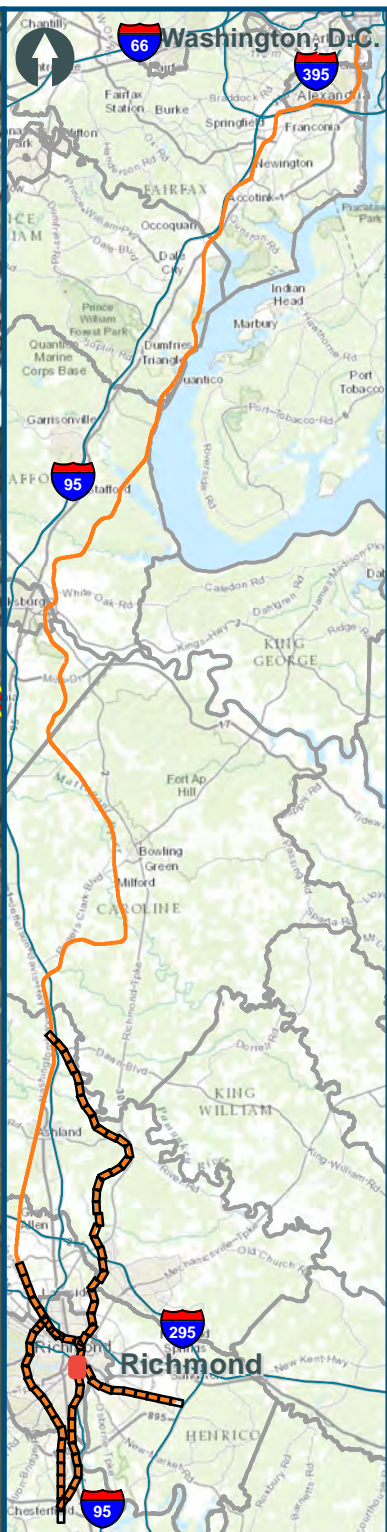
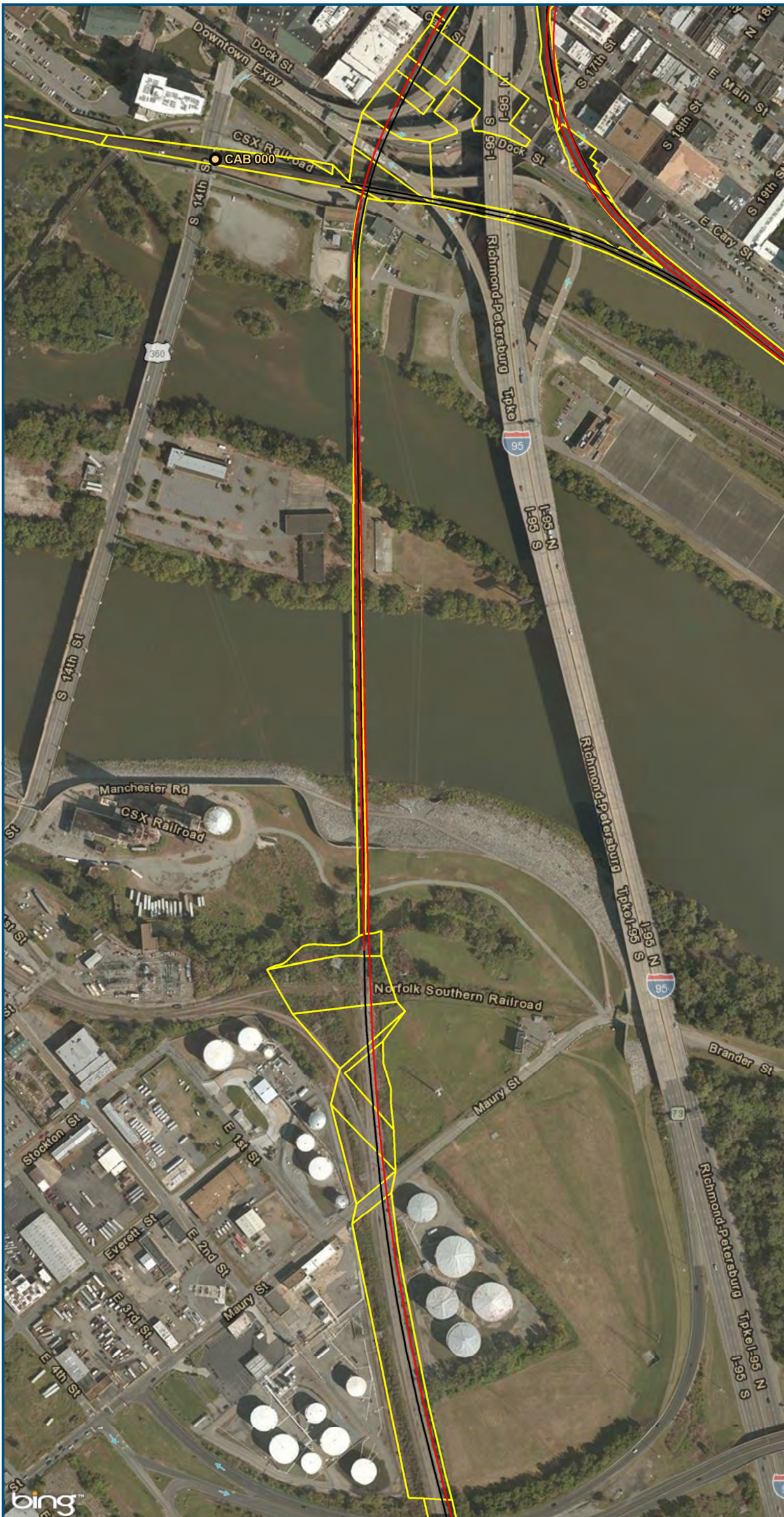


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 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- Amtrak Station
 - CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

Figure X-11
Richmond Segment
Constrained
Alignment Option

\clicsmain\gis_data\GIS\Projects\011545_VADepotRailPublicTransportation\0239056_RAPS-4A\Dev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

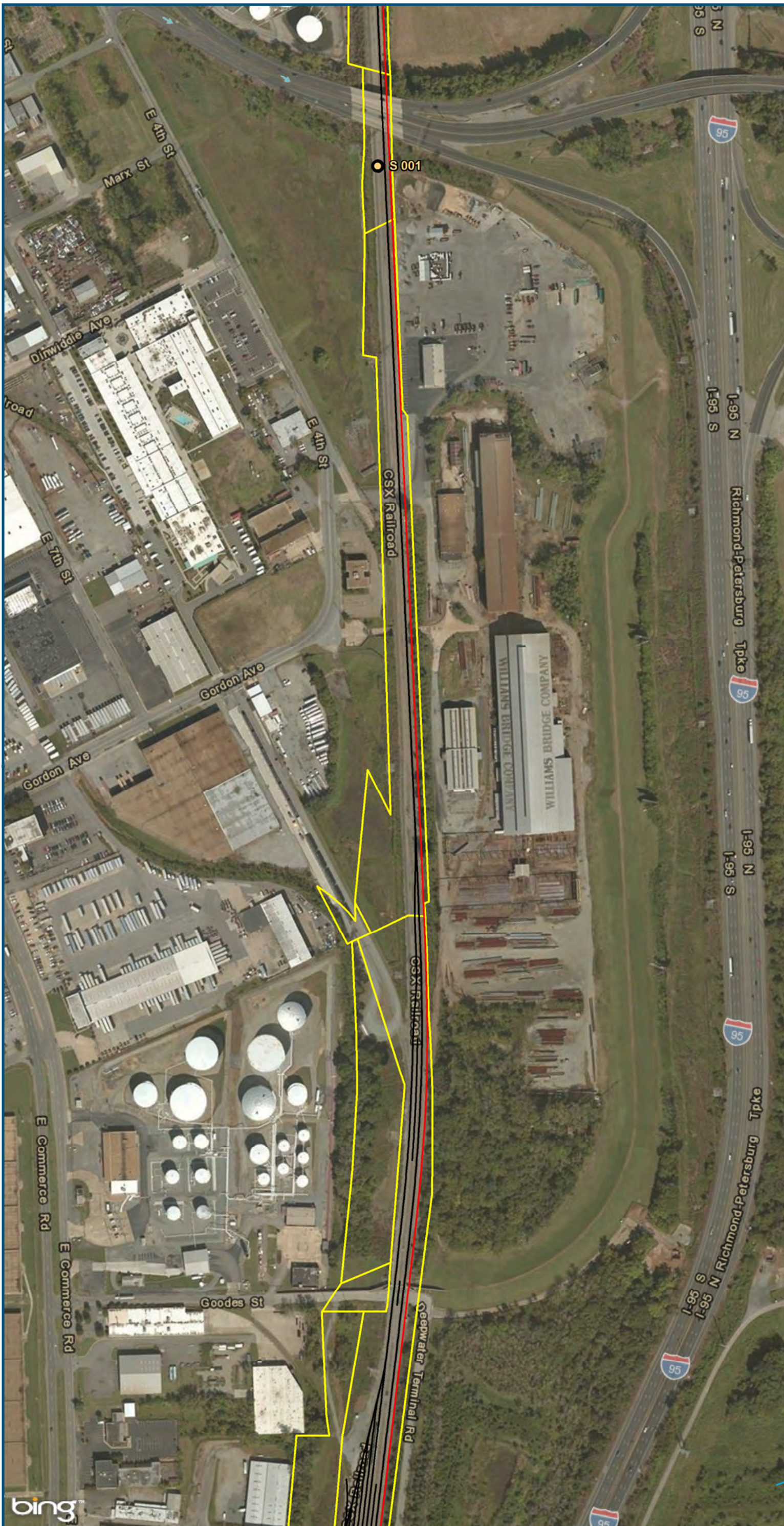


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 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

Figure X-12
Richmond Segment
Constrained
Alignment Option

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0 150 300
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1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

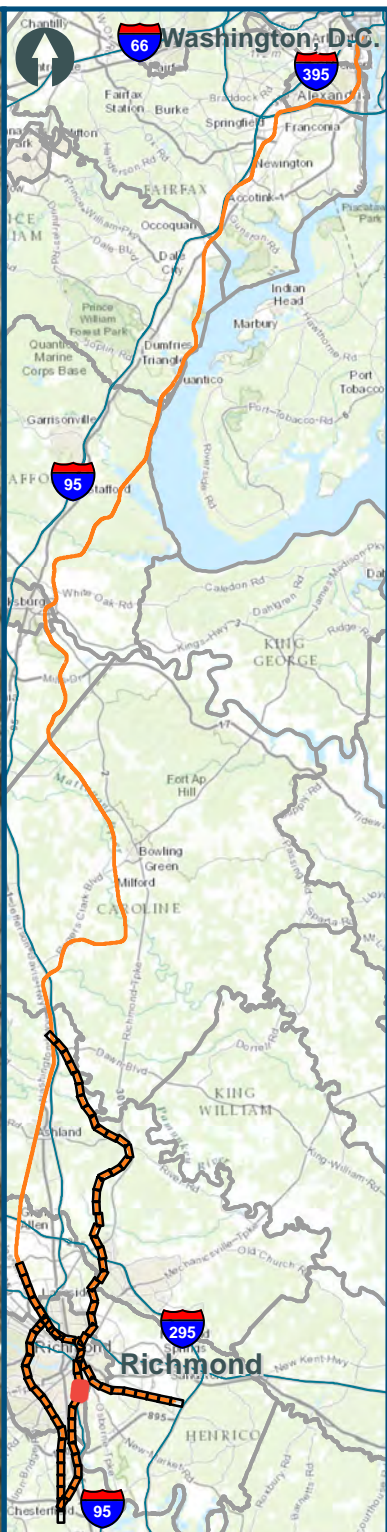
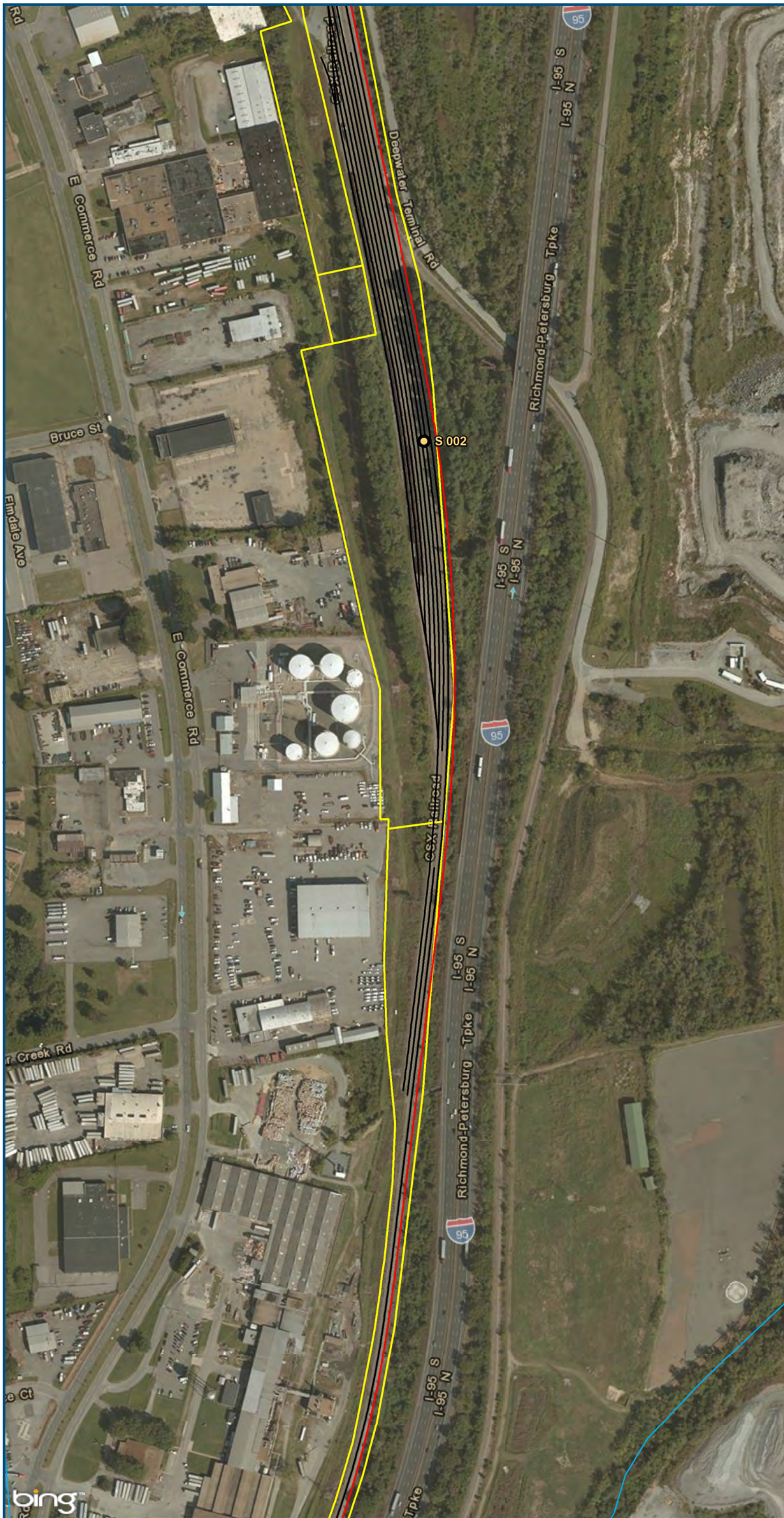
Legend

- CSXT Mileposts
- New Track
- Existing Track
- ▭ CSXT Right-of-Way
- Streams

Figure X-13
Richmond Segment
Constrained
Alignment Option

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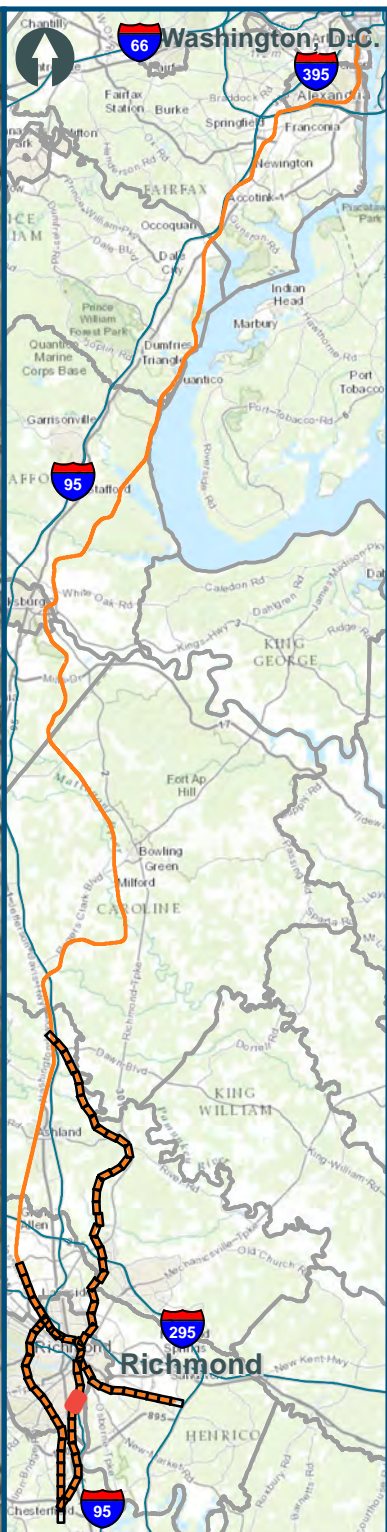
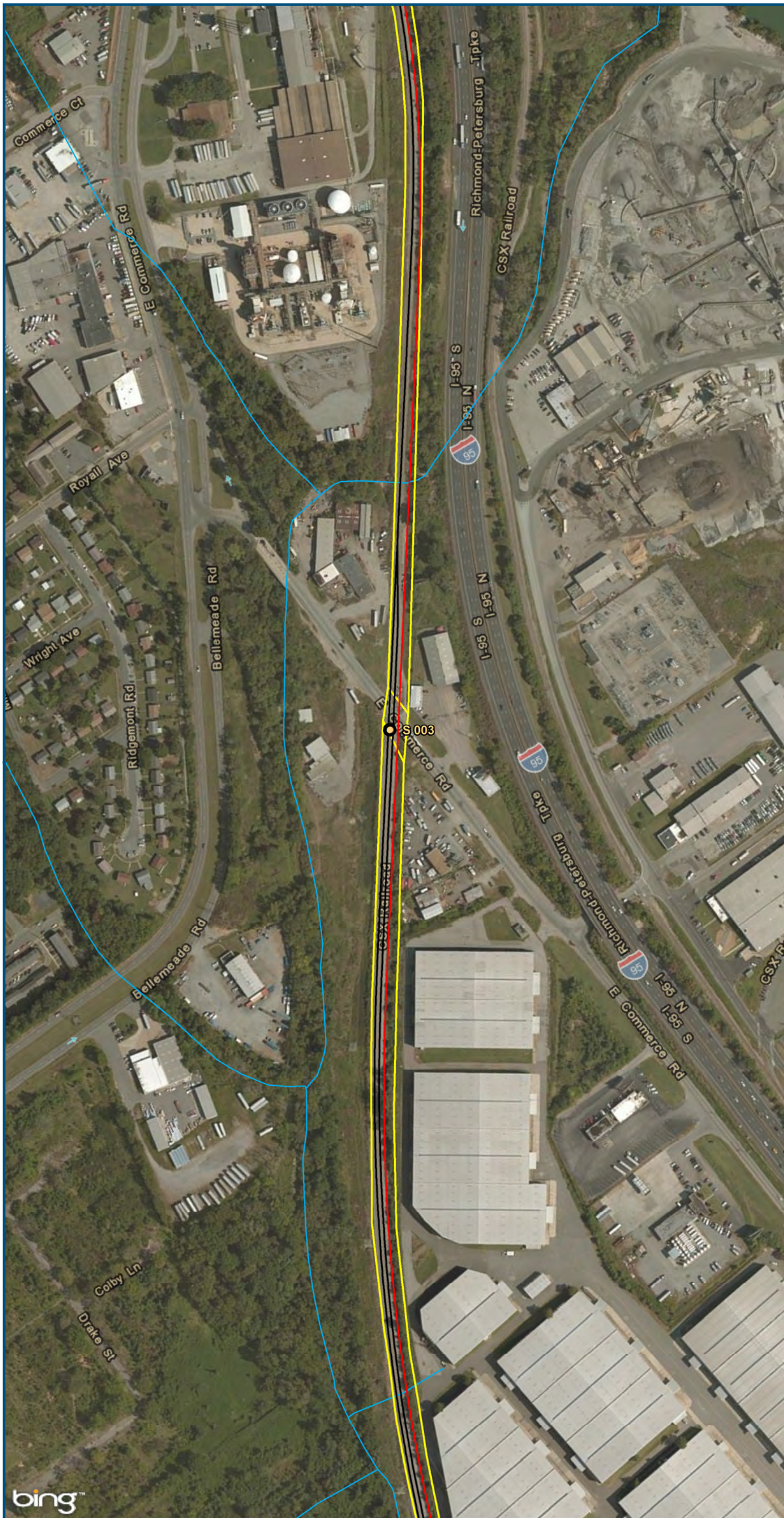
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 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-14
Richmond Segment
Constrained
Alignment Option

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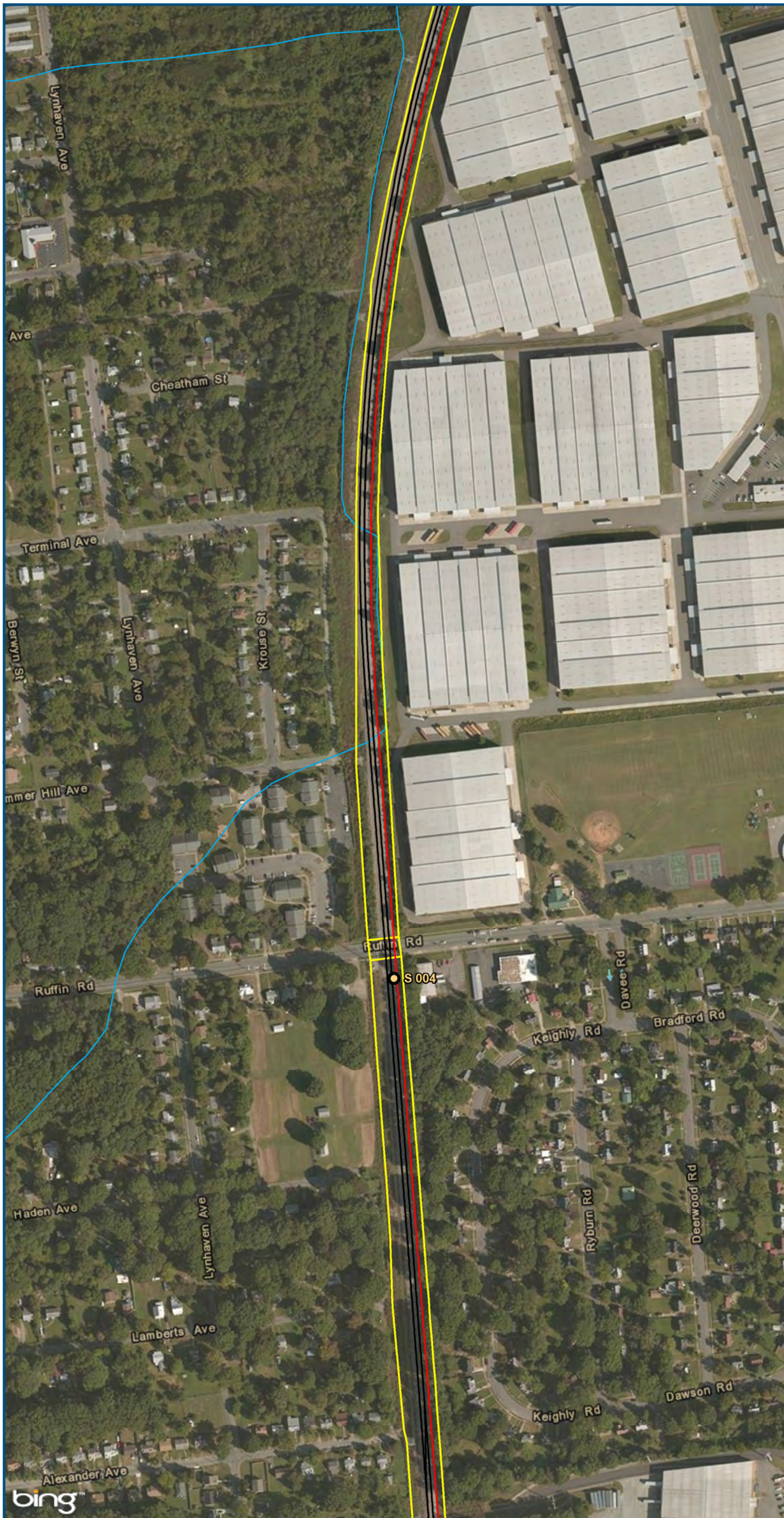


Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-15
Richmond Segment
Constrained
Alignment Option

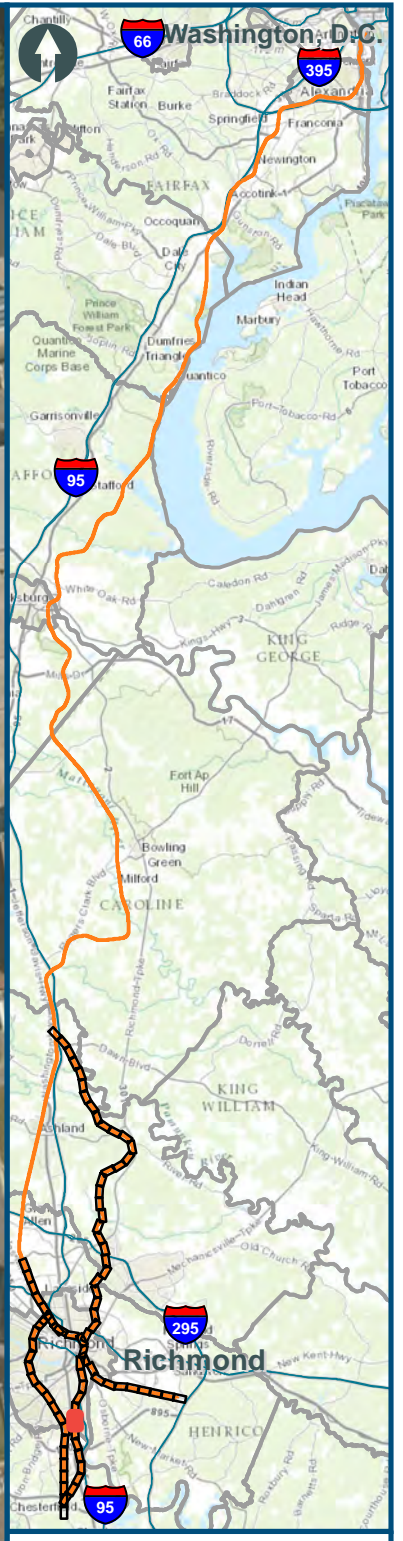
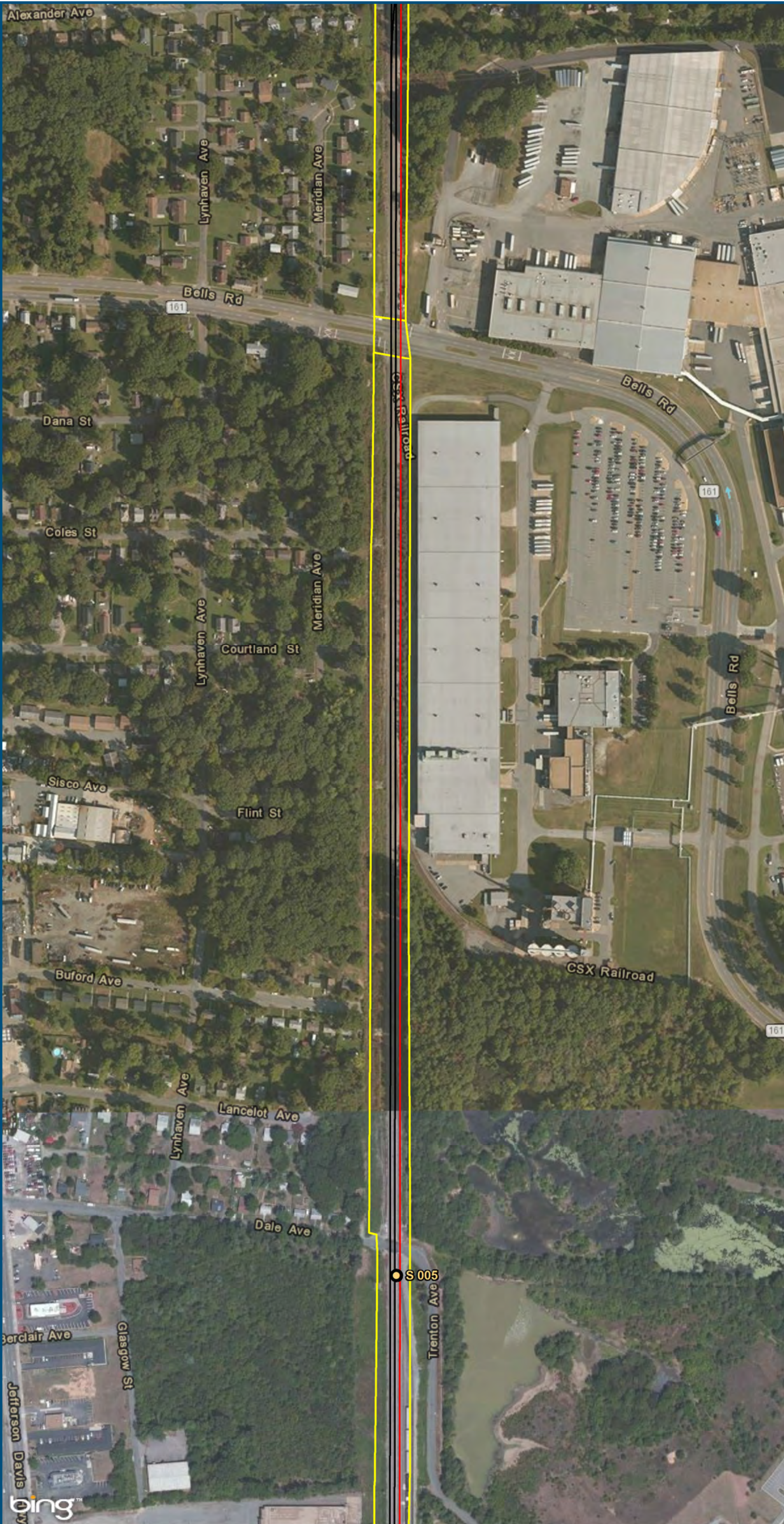
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0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - ▭ CSXT Right-of-Way
 - Streams

Figure X-16
Richmond Segment
Constrained
Alignment Option



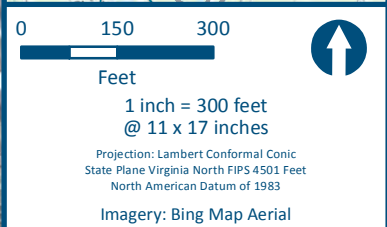
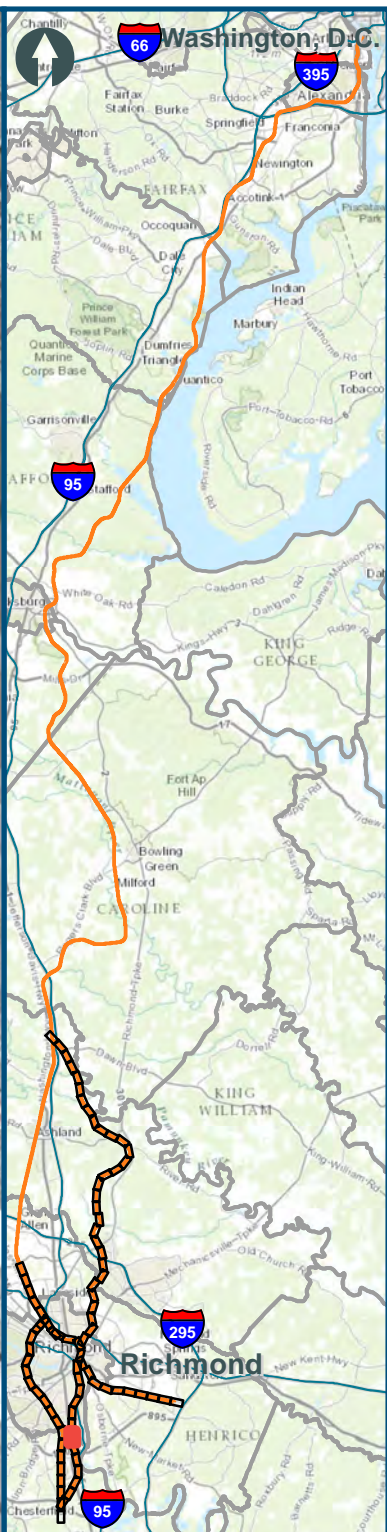
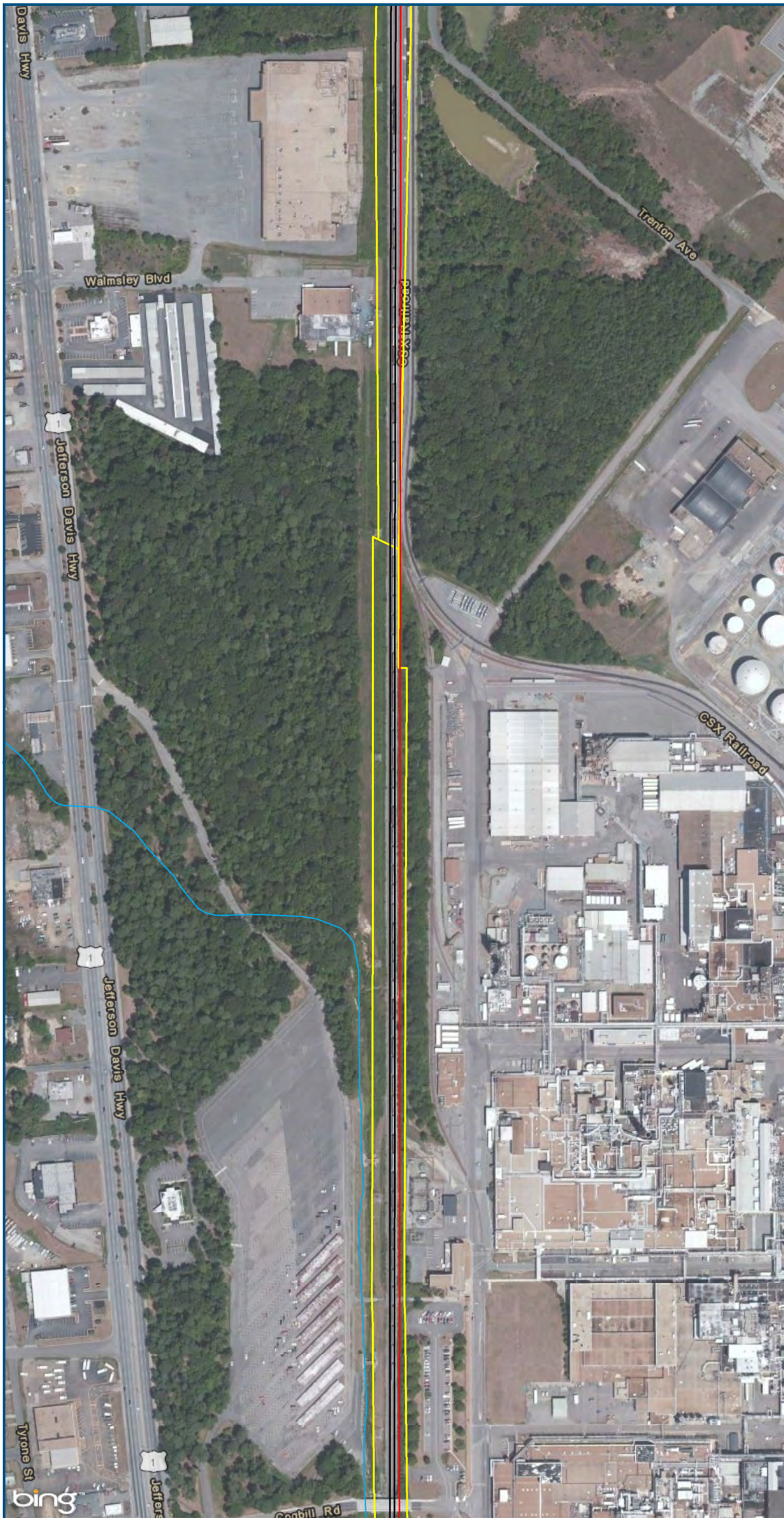
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Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

Figure X-17
Richmond Segment
Constrained
Alignment Option

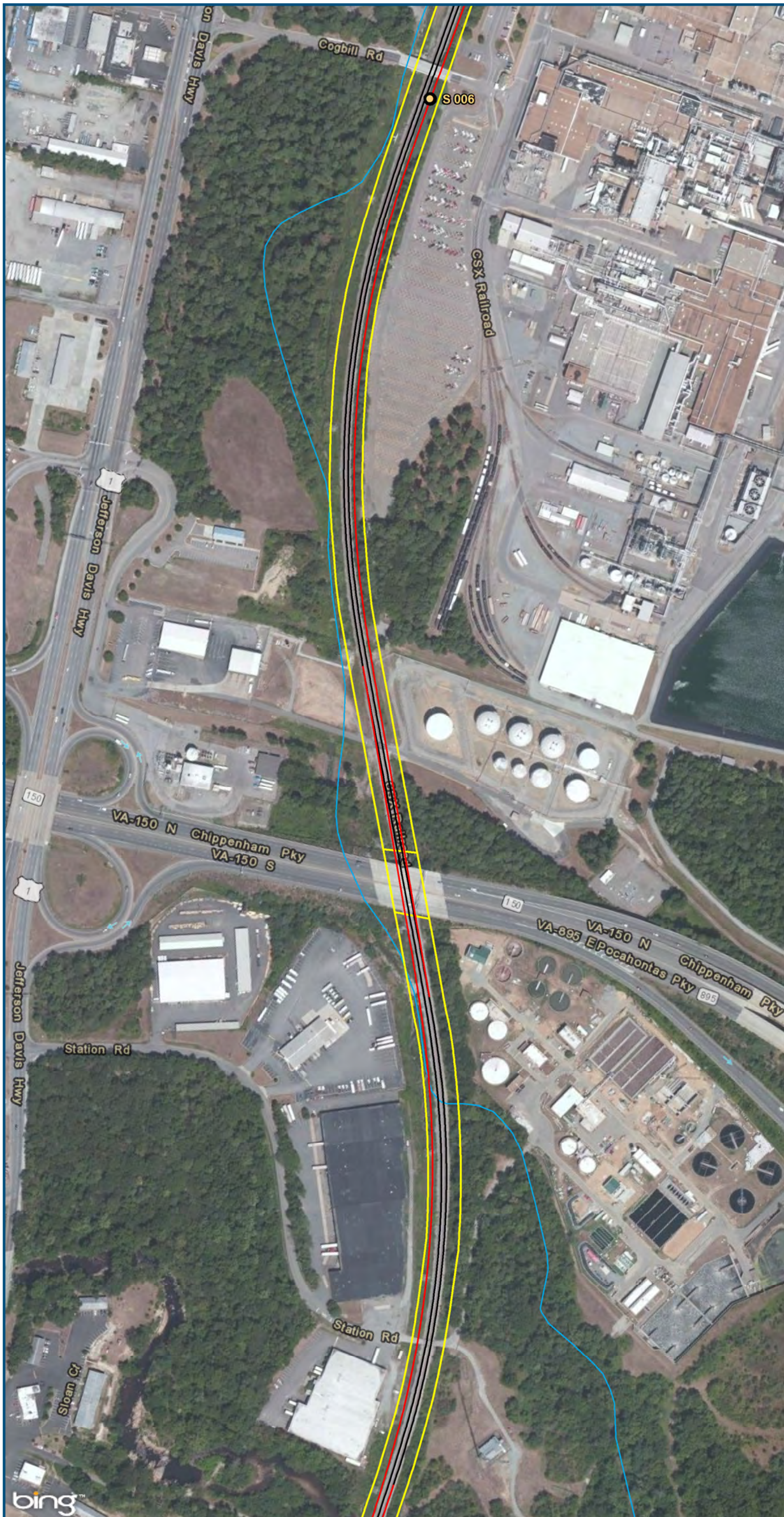
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-18
Richmond Segment
Constrained
Alignment Option



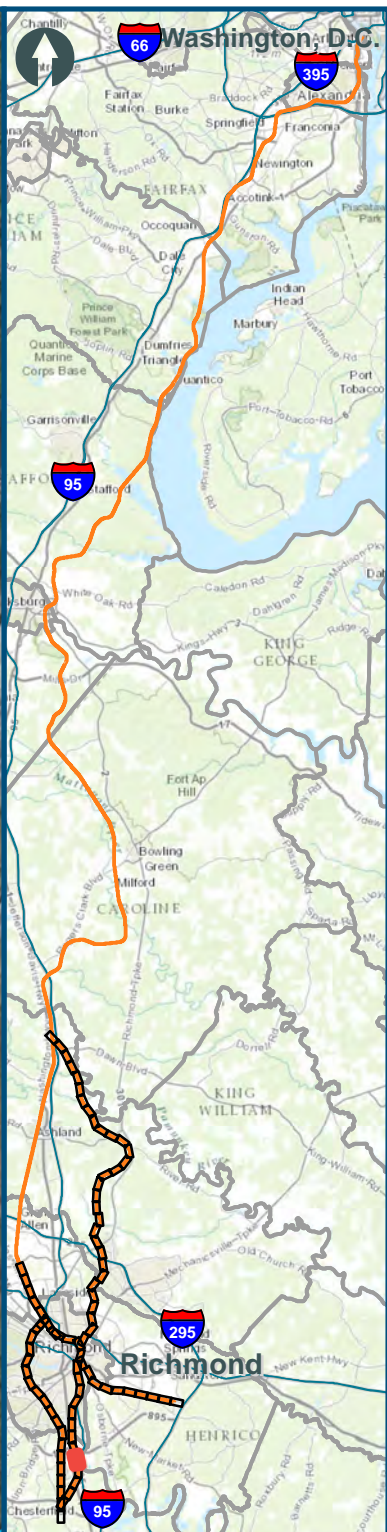
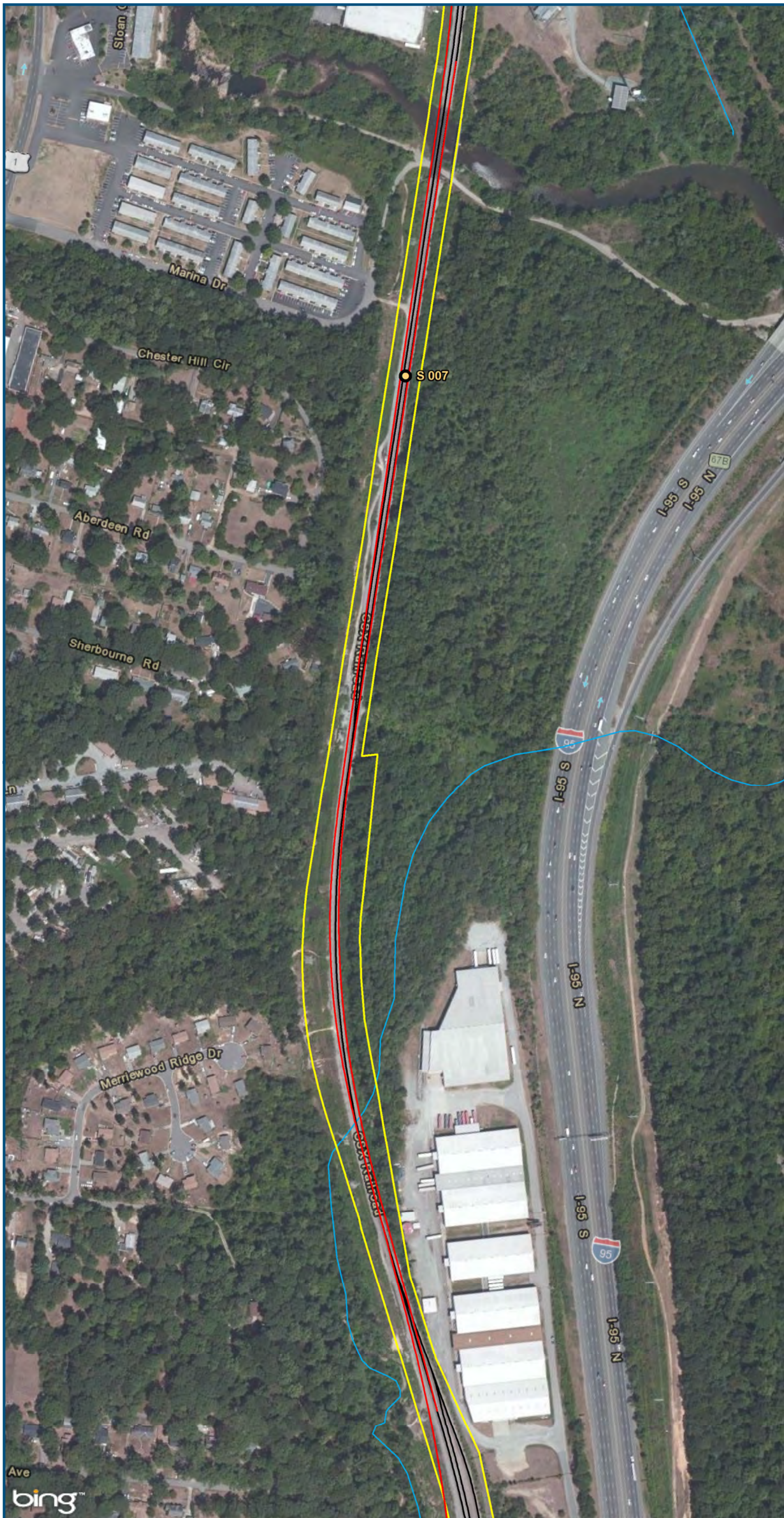
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - ▭ CSXT Right-of-Way
 - Streams

Figure X-19
Richmond Segment
Constrained
Alignment Option

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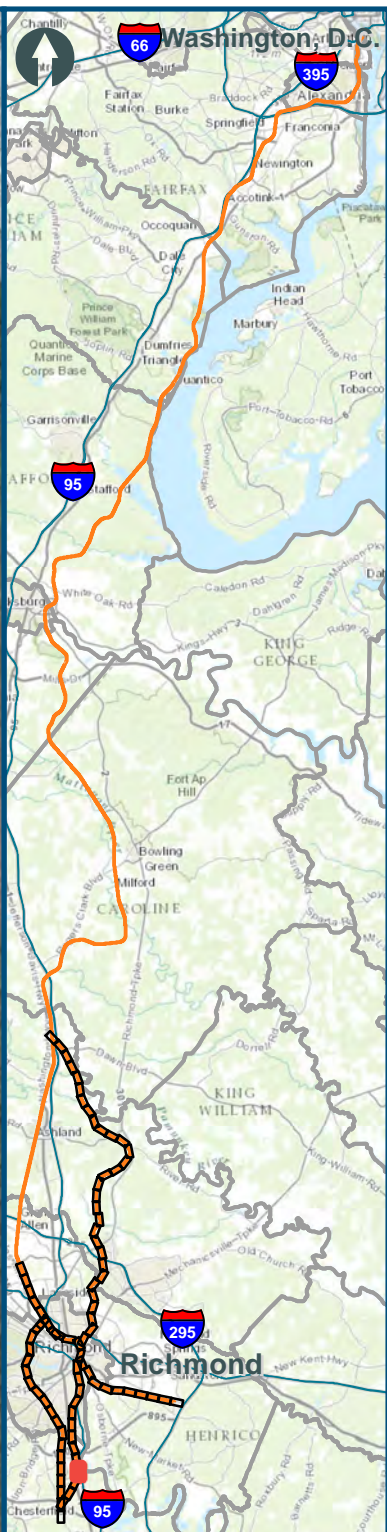
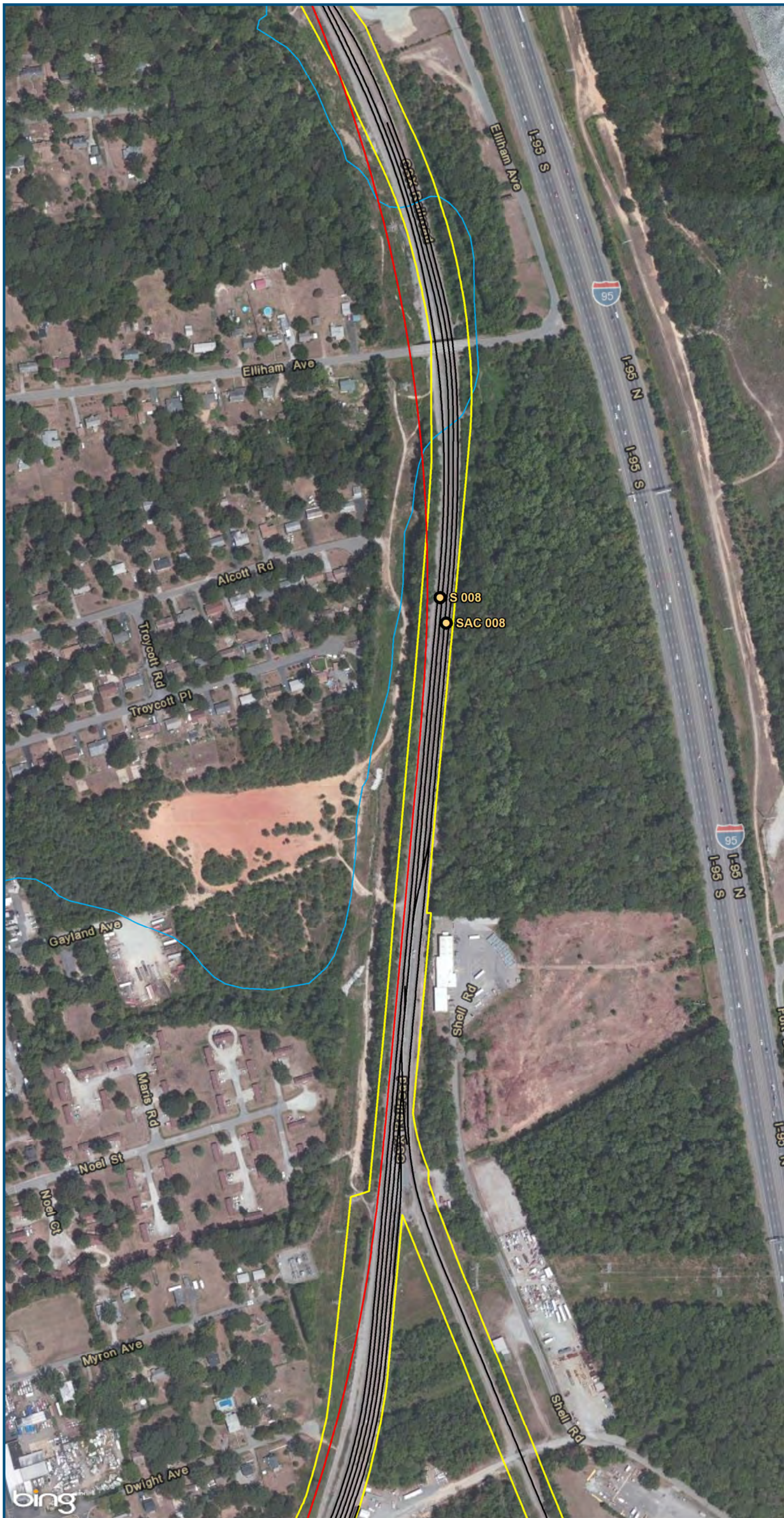
0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-20
Richmond Segment
Constrained
Alignment Option

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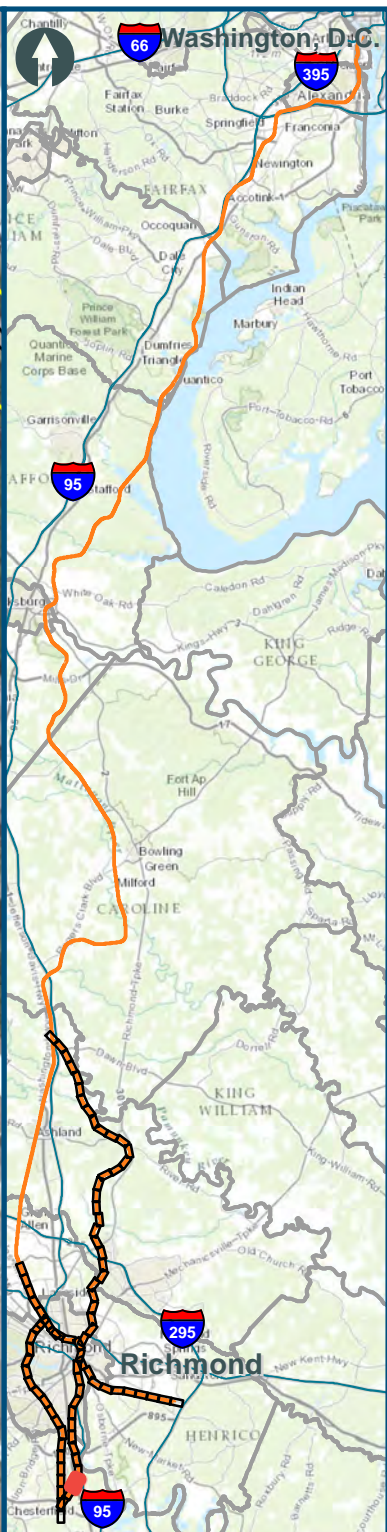
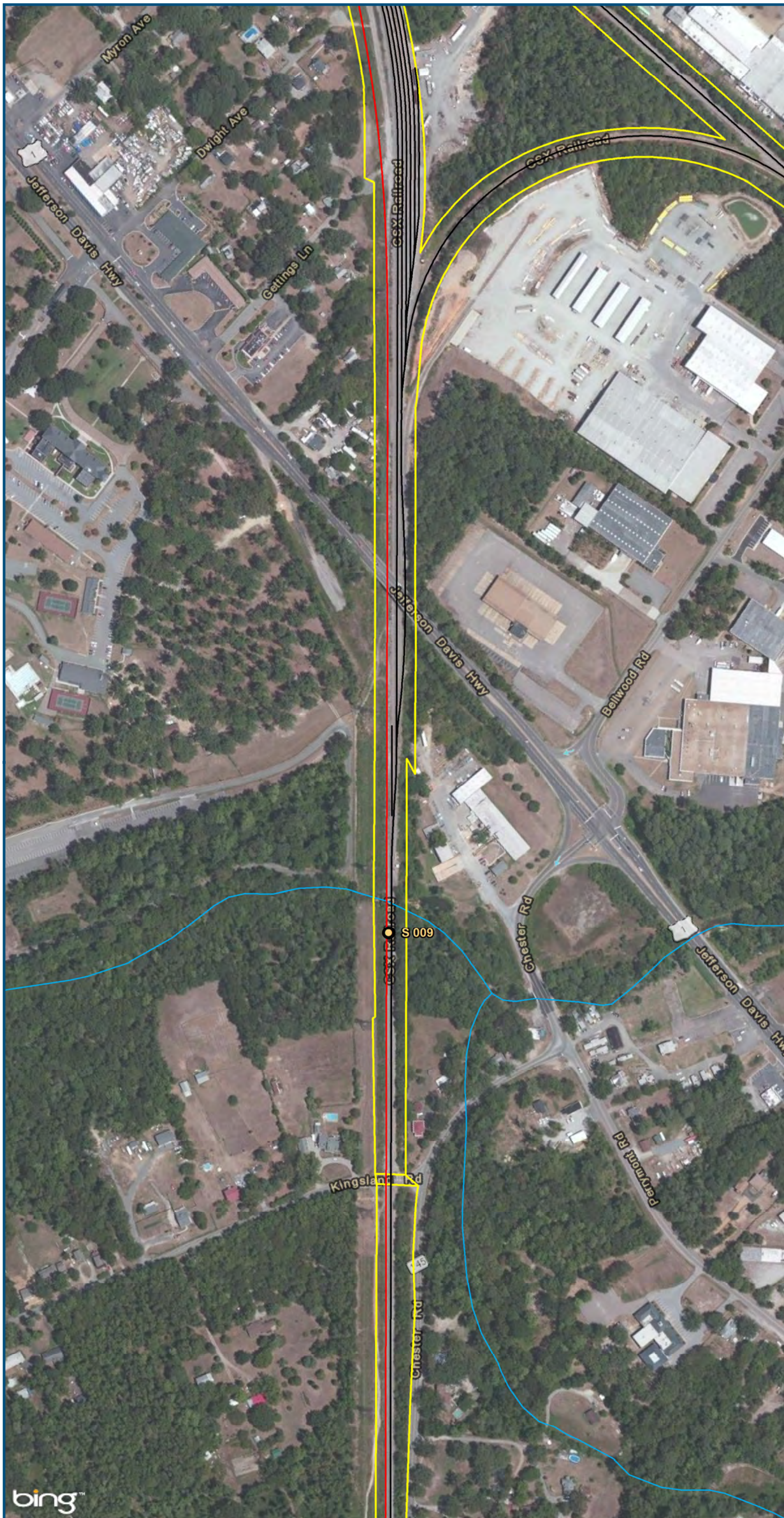
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-21
Richmond Segment
Constrained
Alignment Option

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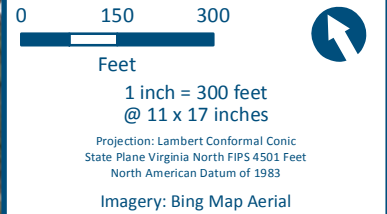
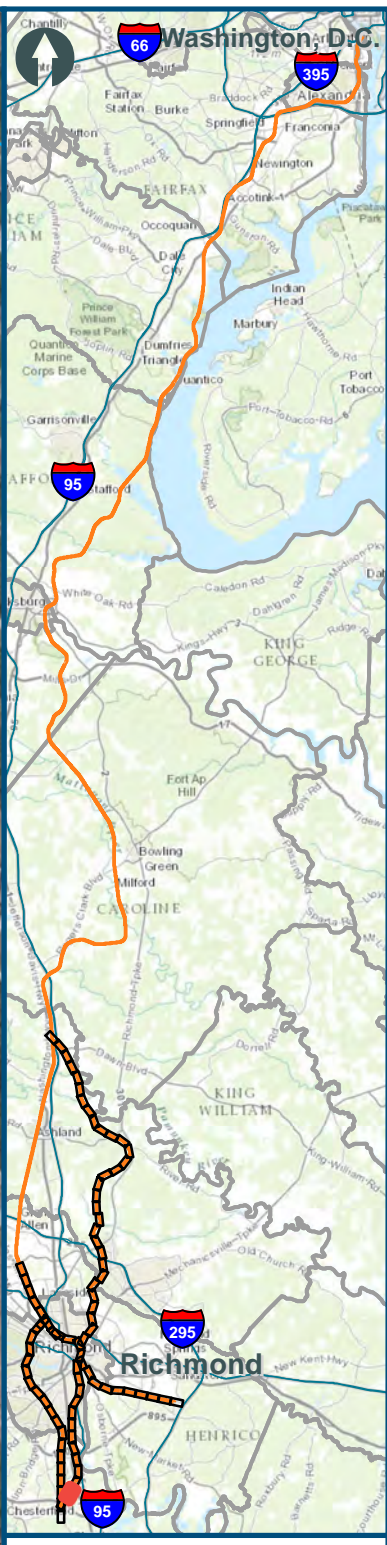


Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-22
Richmond Segment
Constrained
Alignment Option

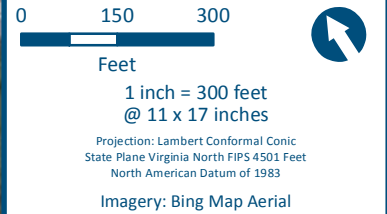
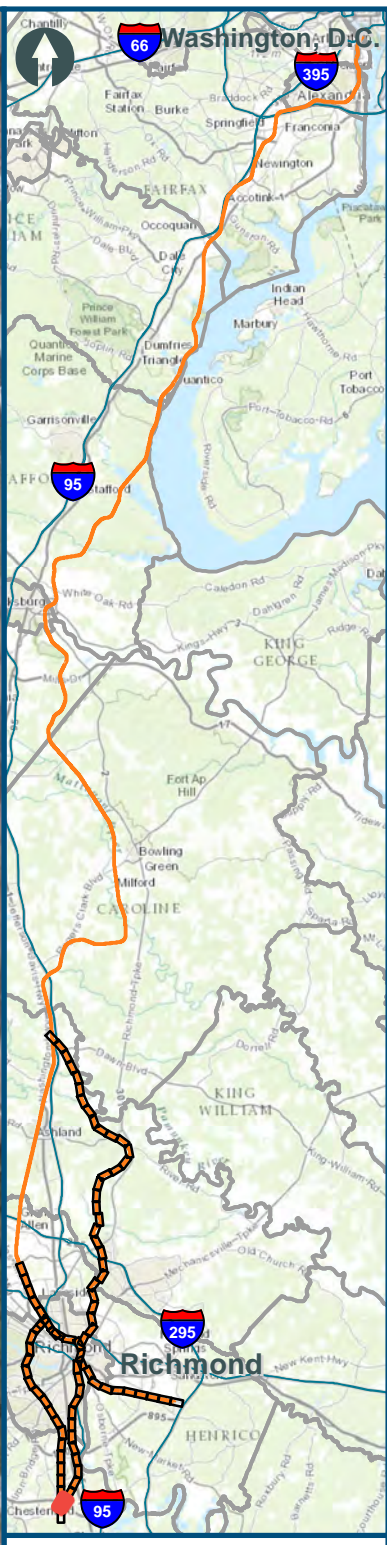
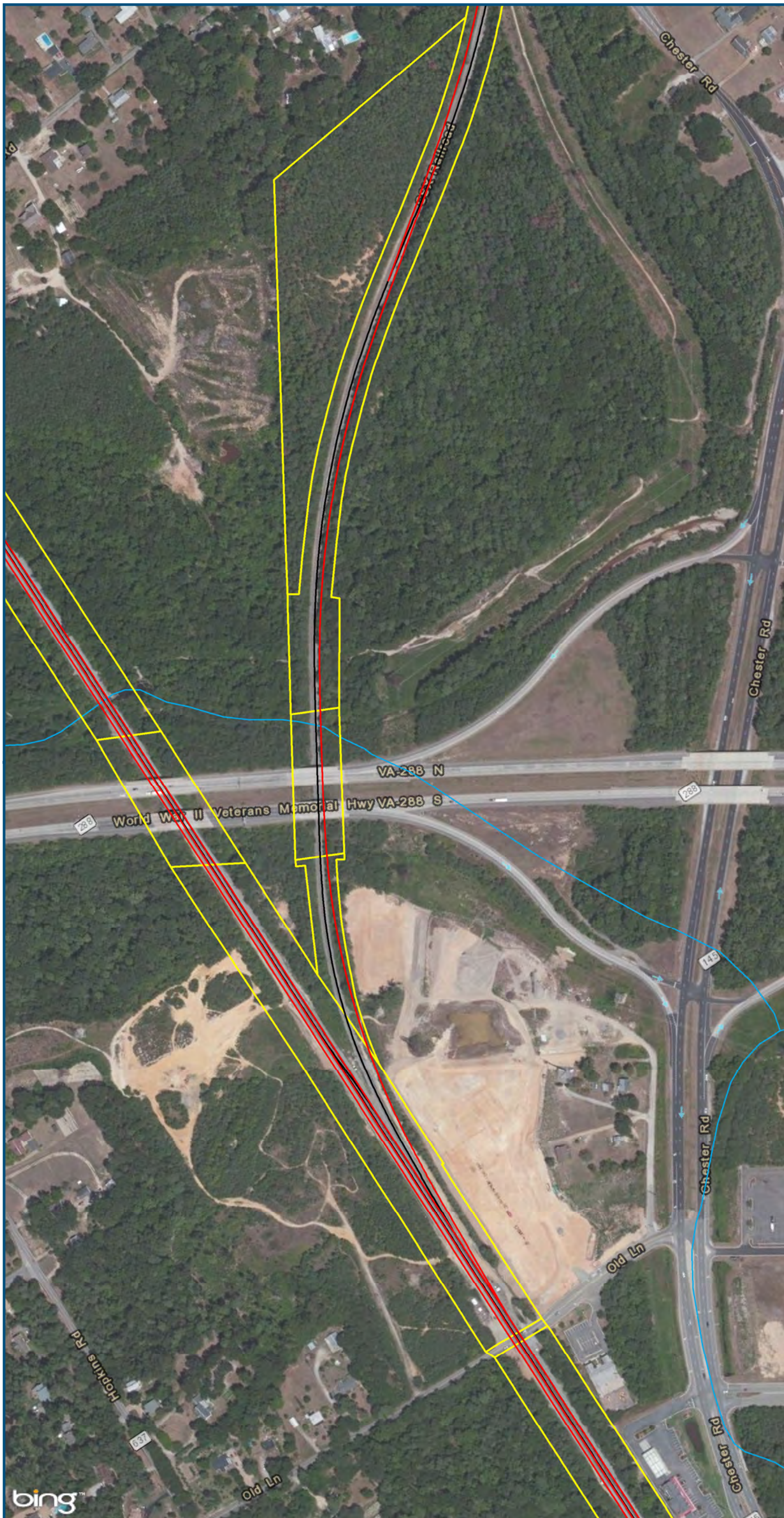
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-23
Richmond Segment
Constrained
Alignment Option

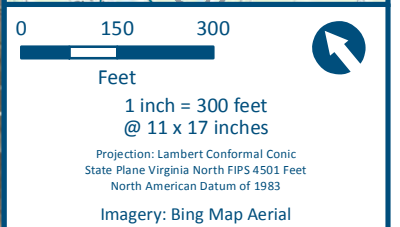
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

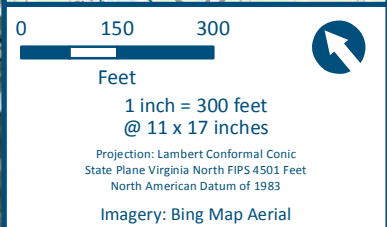
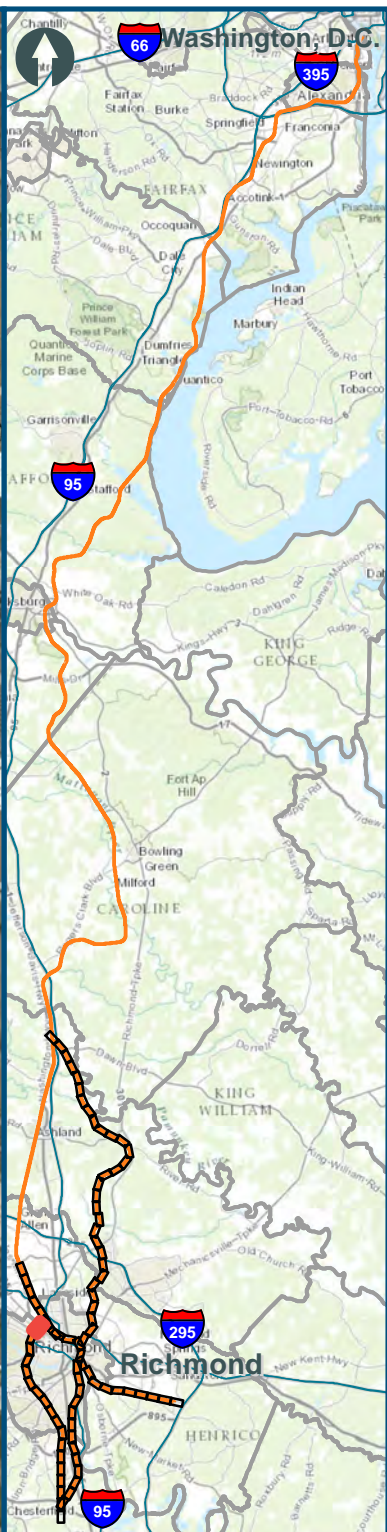
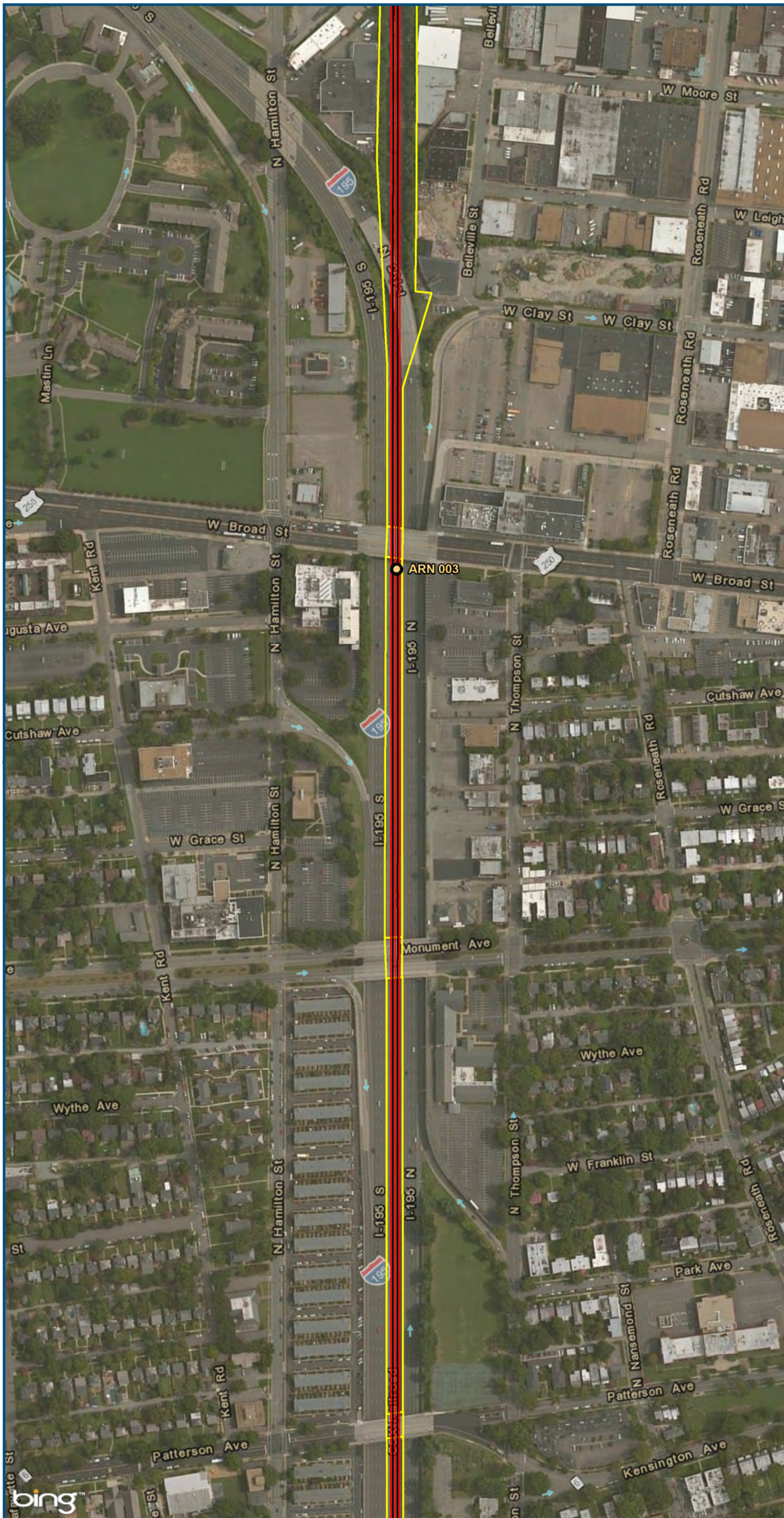
Figure X-24
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepot\Railis-Public\Transportation\0239056_RAPS-4\AllDev-Concept\Eng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

Figure X-25
Richmond Segment
Constrained
Alignment Option



Legend





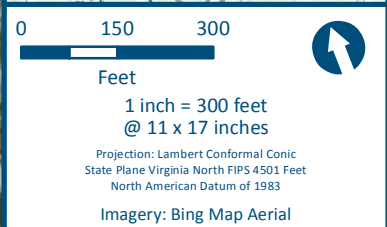
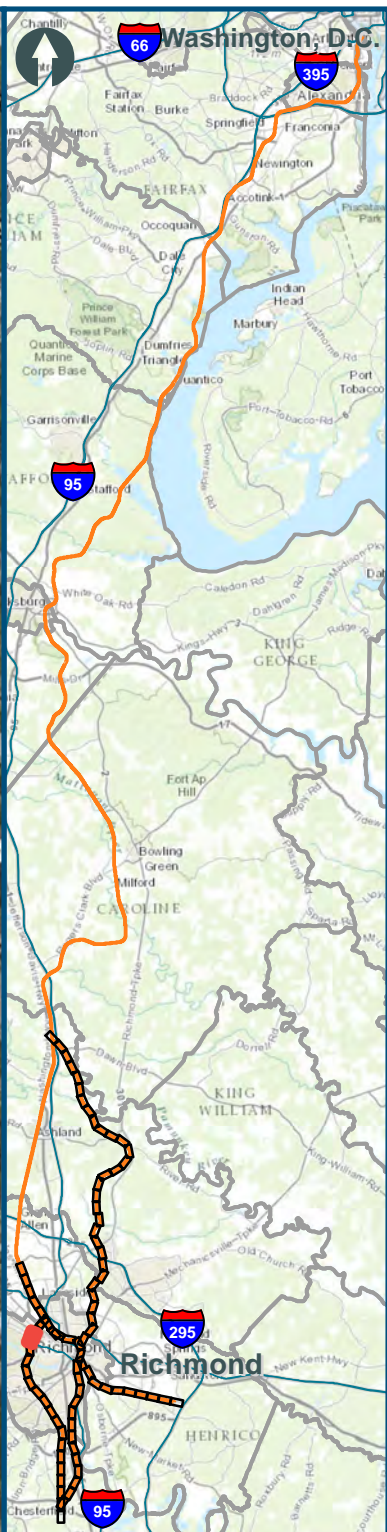
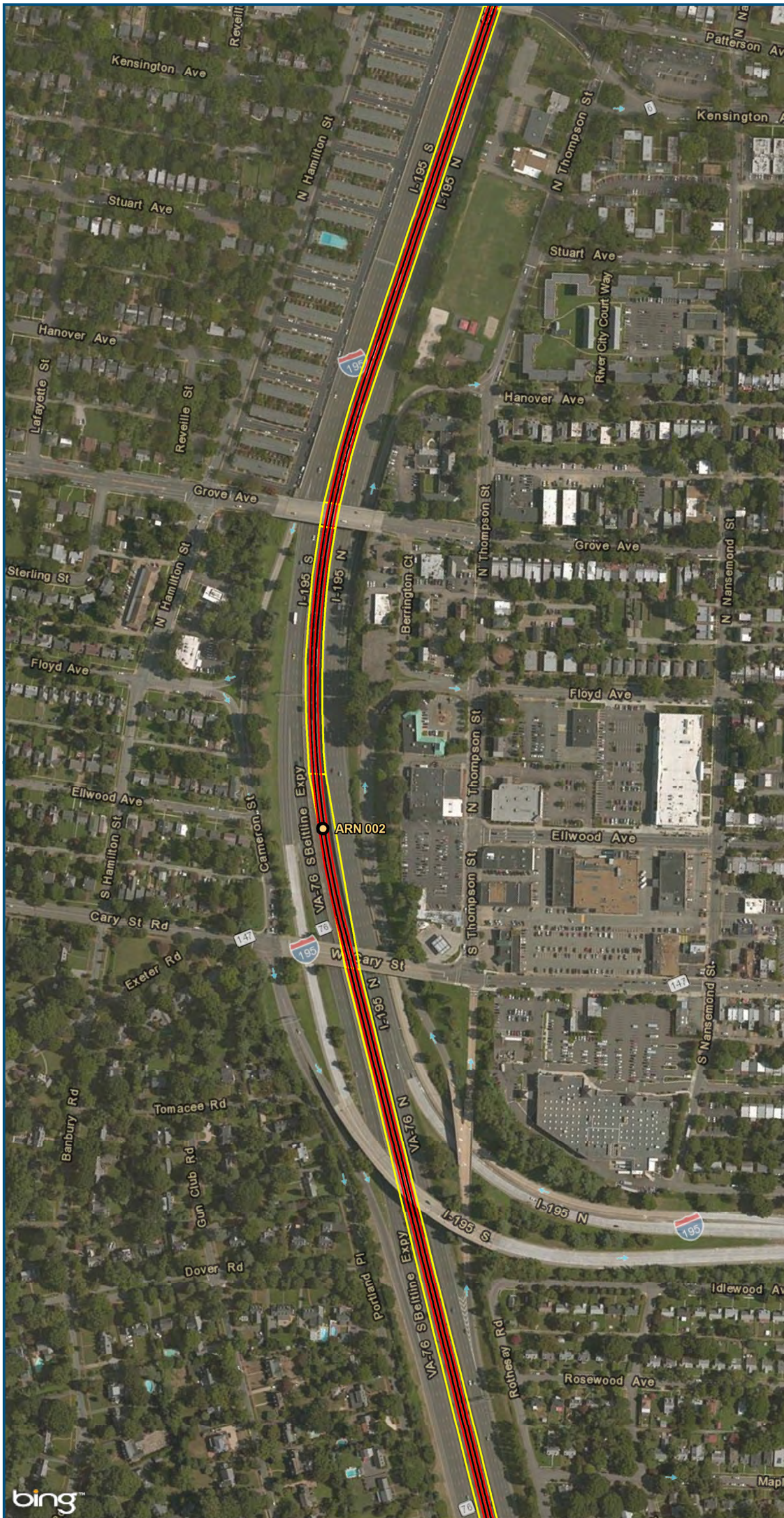
-  CSXT Mileposts
-  New Track
-  Existing Track
-  CSXT Right-of-Way

Figure X-26
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotRailPublicTransportation\0239056_RAPS-4\Dev-Concept\Eng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

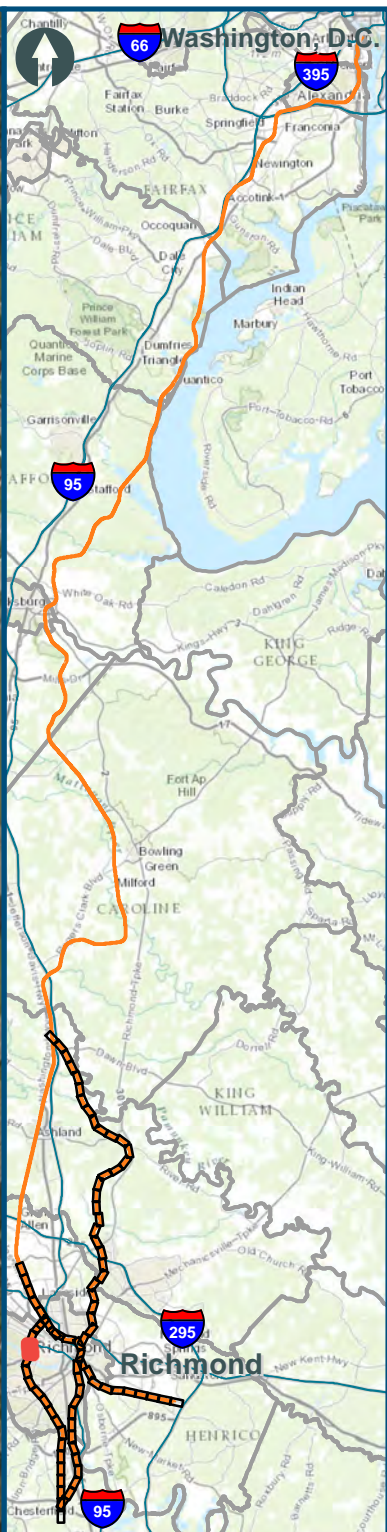
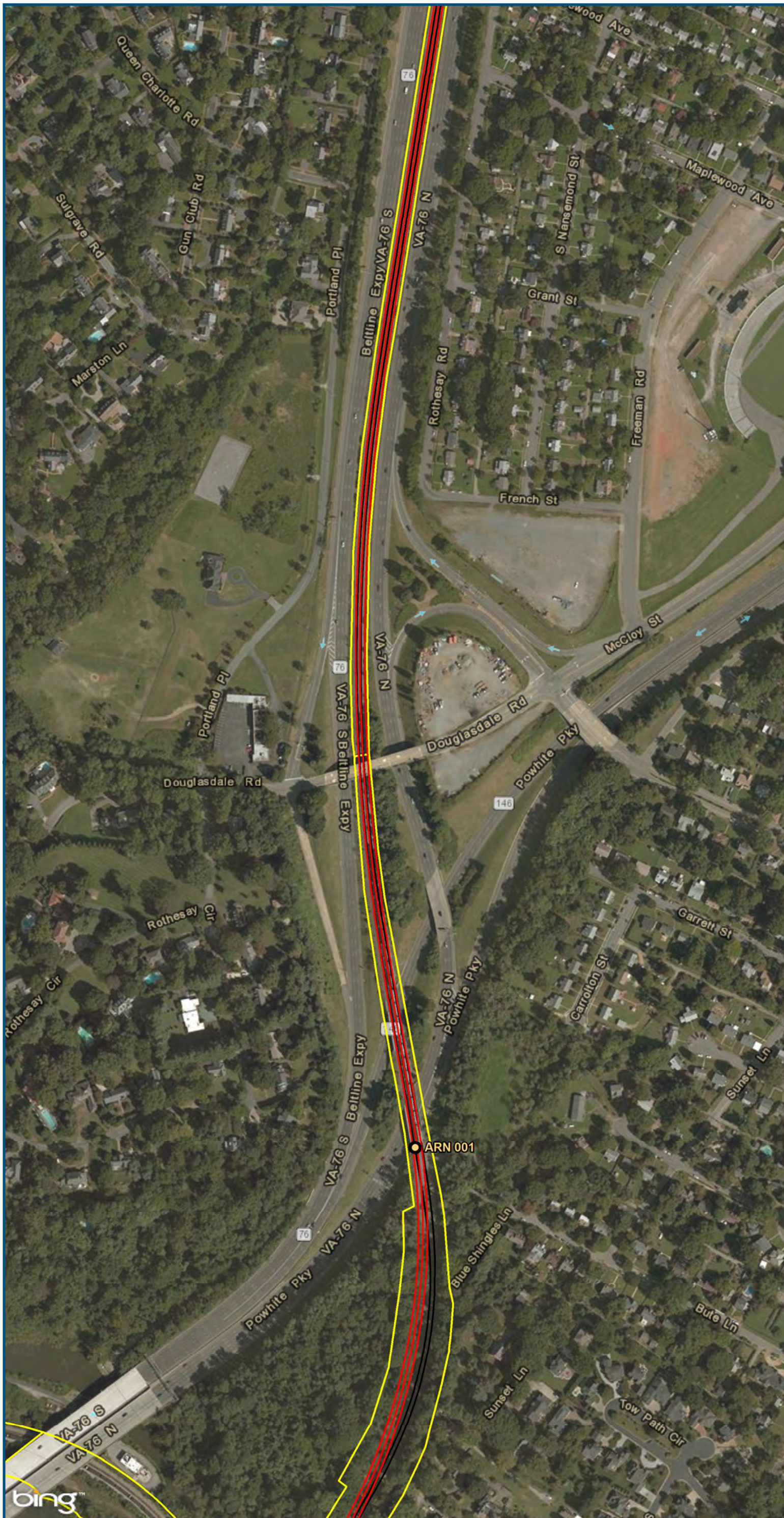


Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way

Figure X-27
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VA\Dev\RailPublicTransportation\0239056_RAPS-4\Dev-Concept\Eng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



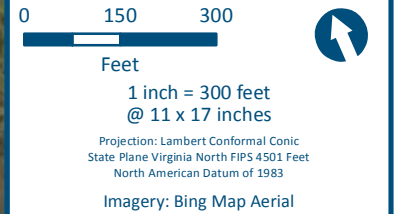
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way

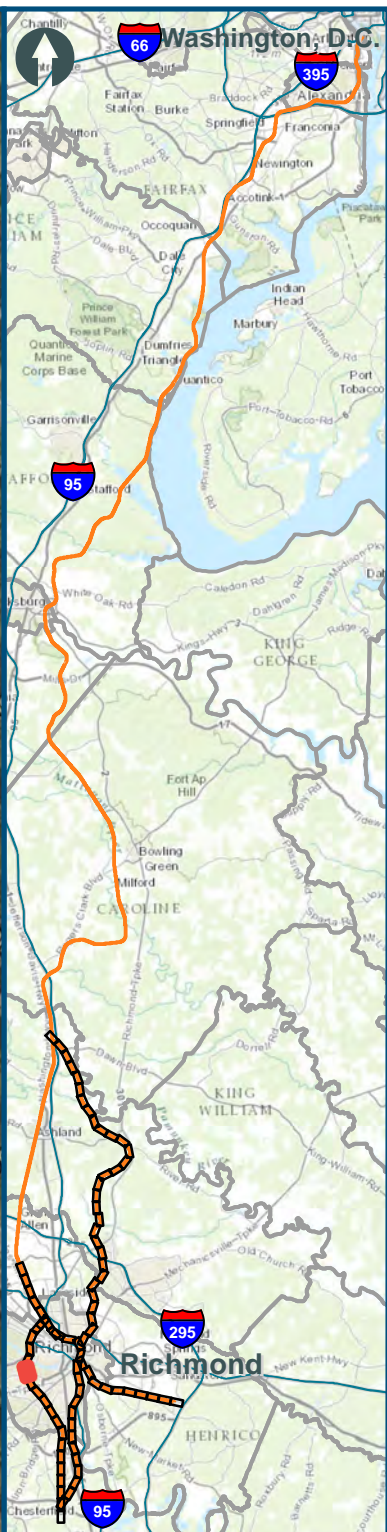
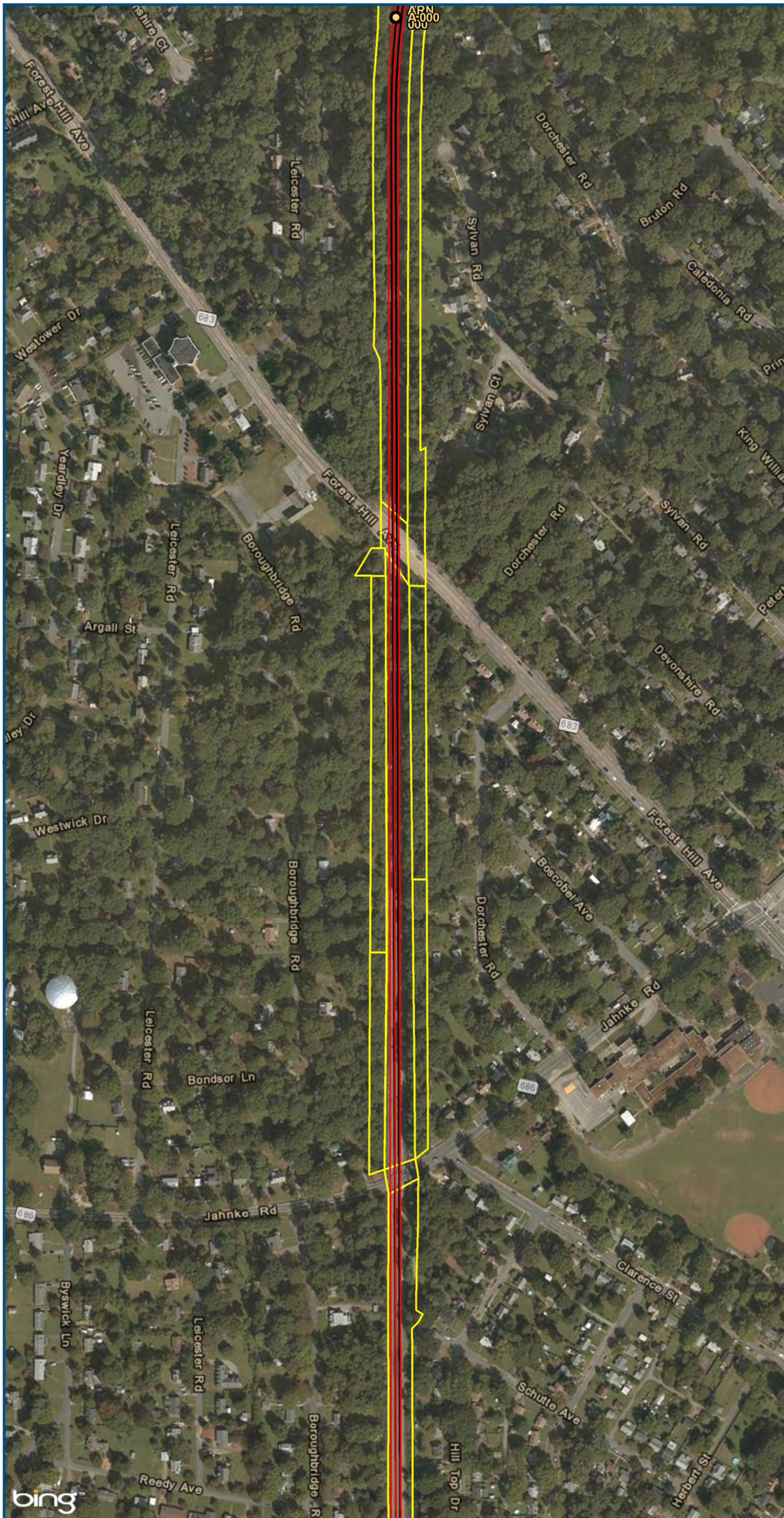
Figure X-28
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepot\Rail-PublicTransportation\0239056_RAPS-4\Dev-Concept\Eng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-29
Richmond Segment
Constrained
Alignment Option



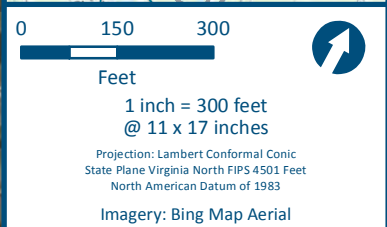
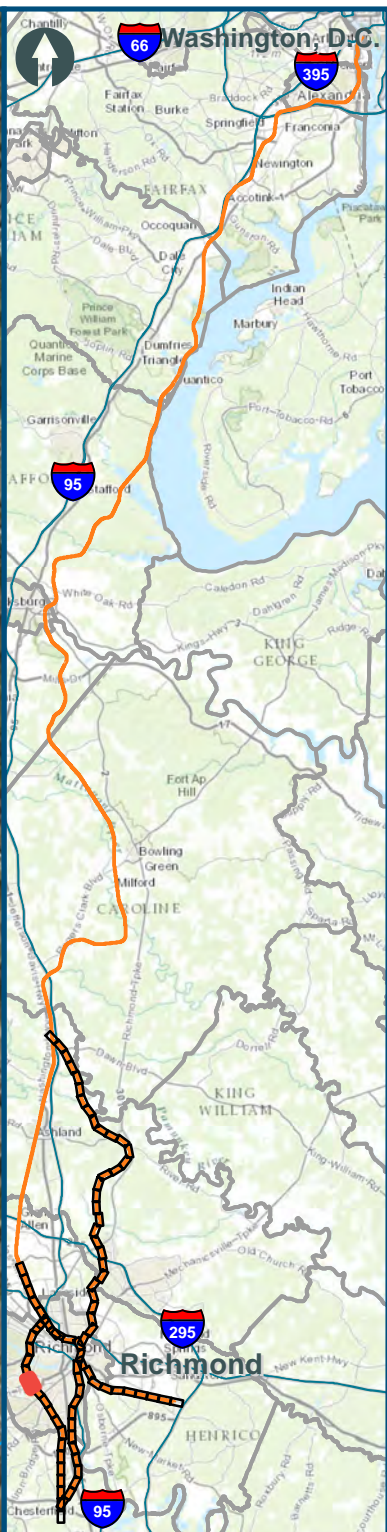
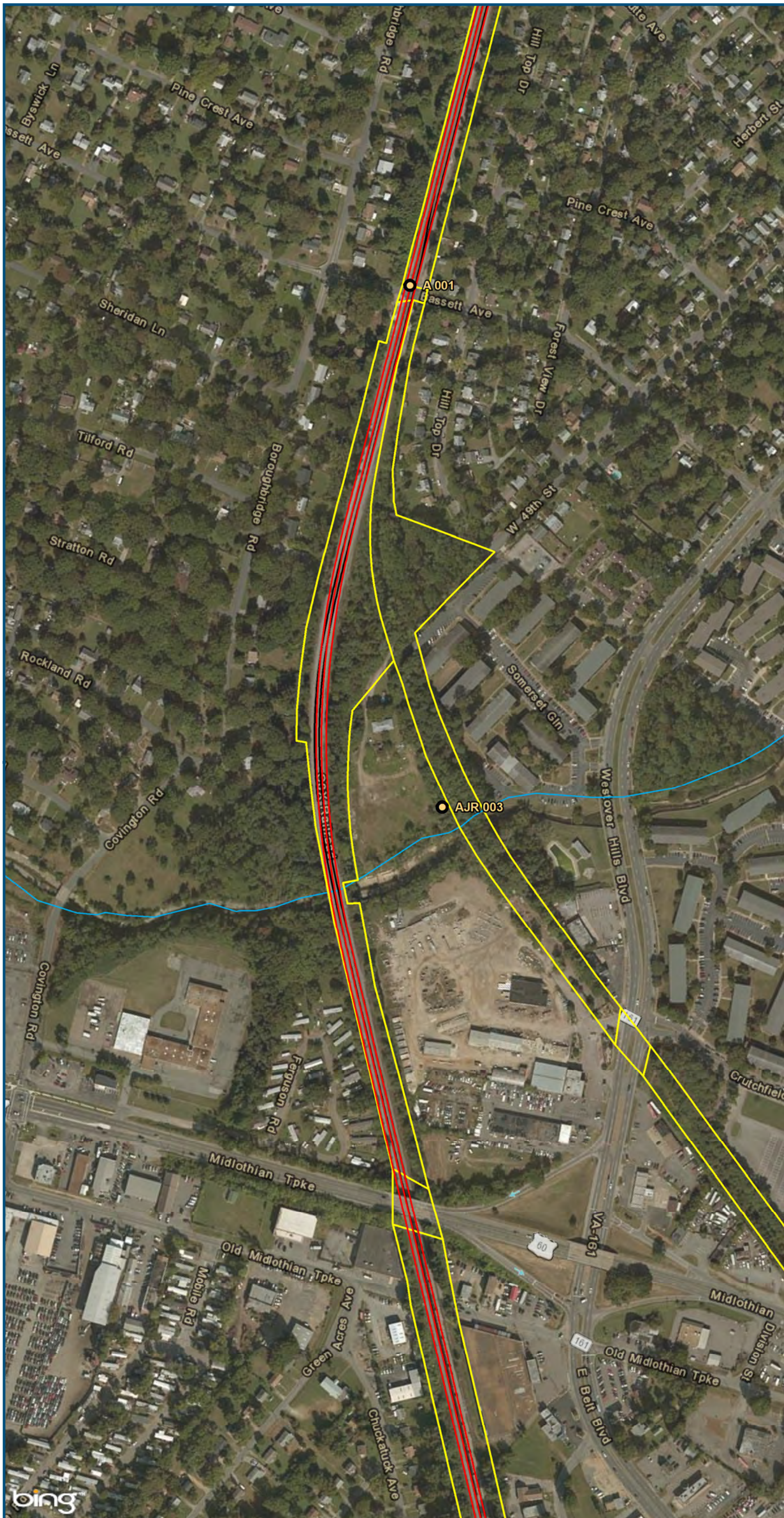
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

Figure X-30
Richmond Segment
Constrained
Alignment Option

\\cslsmain\gis_data\GIS\Projects\011545_VADepotRailPublicTransportation\0239056_RAPS-4\Dev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

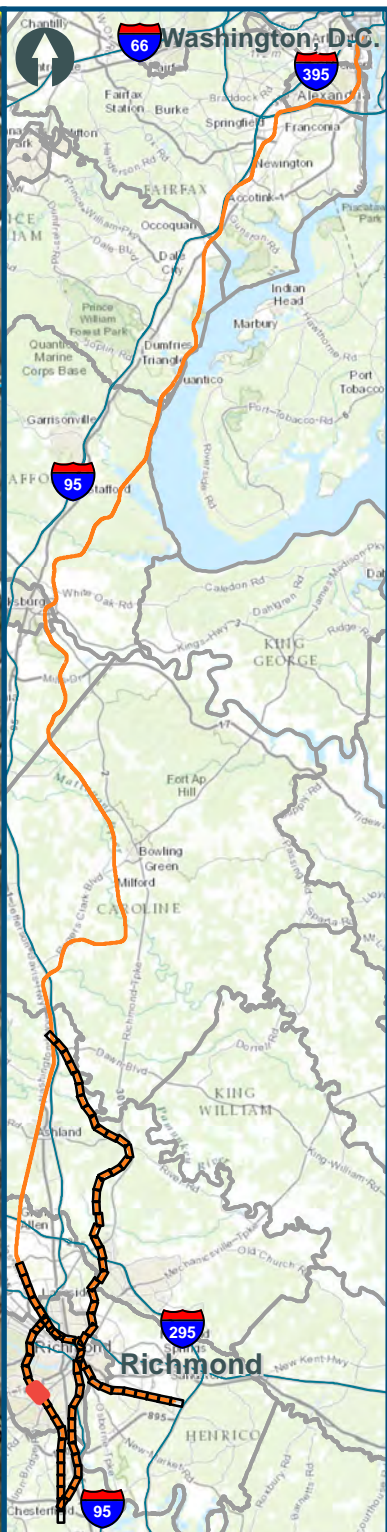
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-31
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepot\Railis-PublicTransportation\0239056_RAPS-4A\Dev-Concept\Eng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend






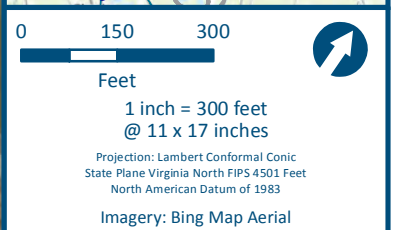
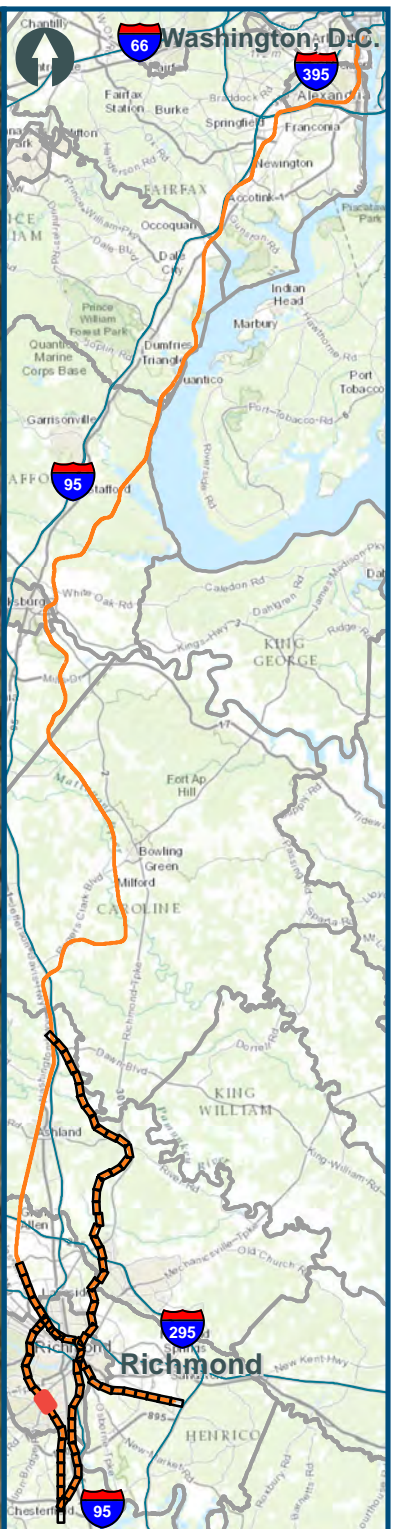
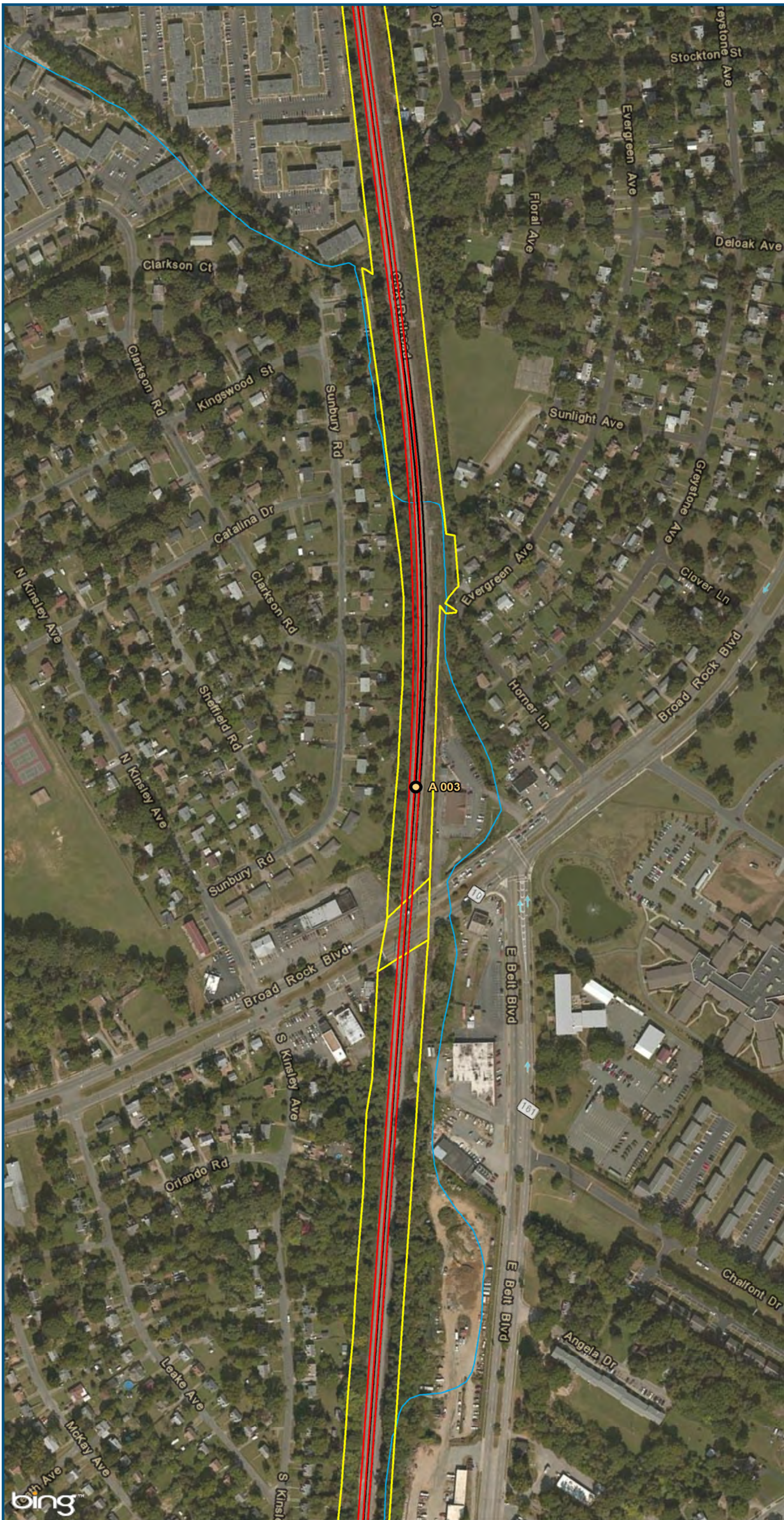
-  CSXT Mileposts
-  New Track
-  Existing Track
-  CSXT Right-of-Way
-  Streams

Figure X-32
Richmond Segment
Constrained
Alignment Option

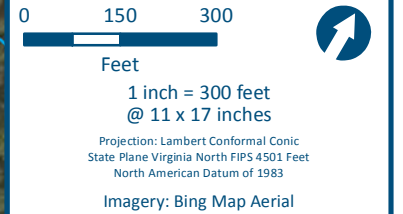
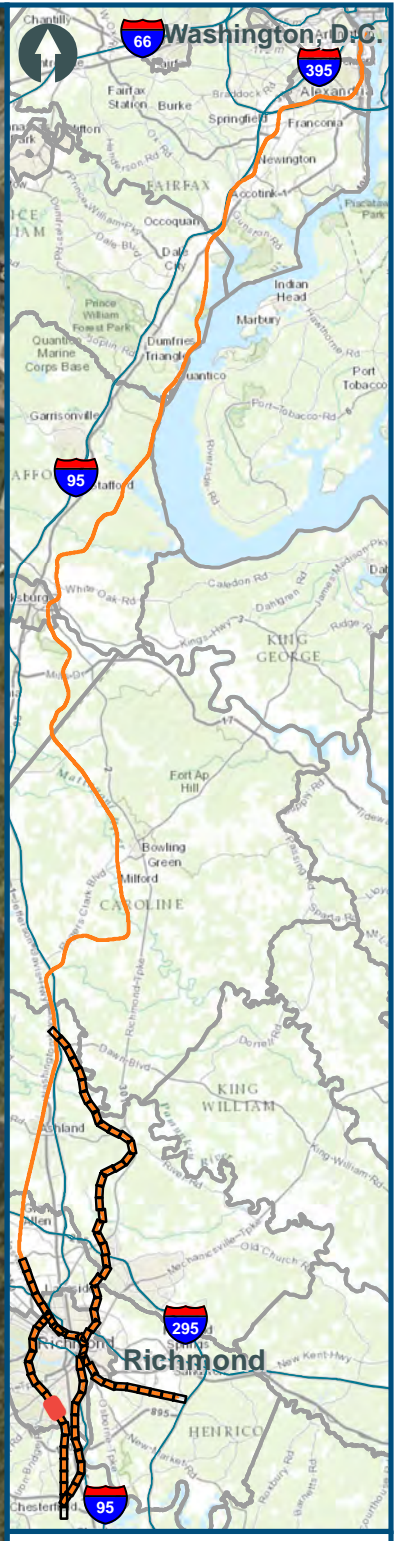
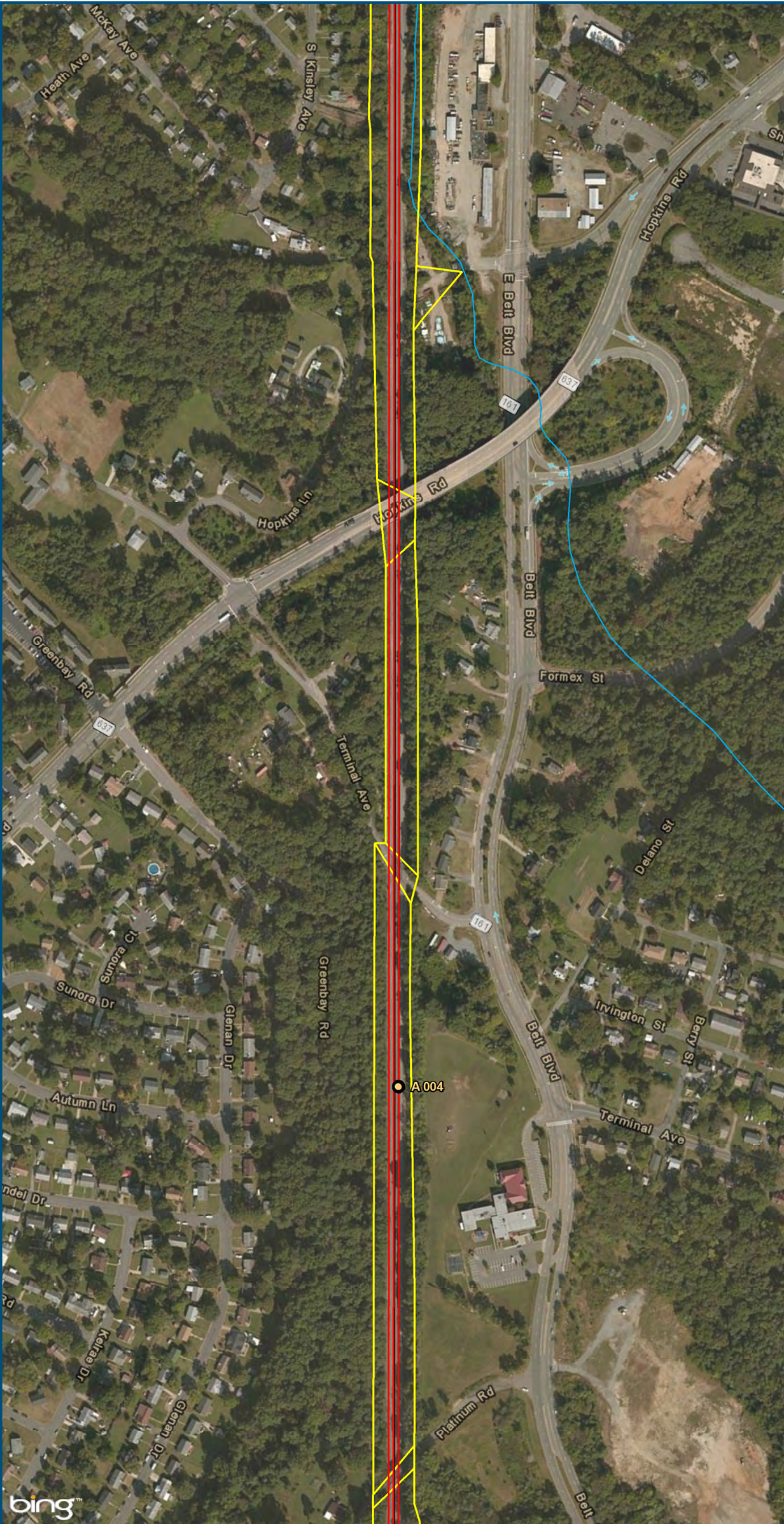


- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-33
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotRailPublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

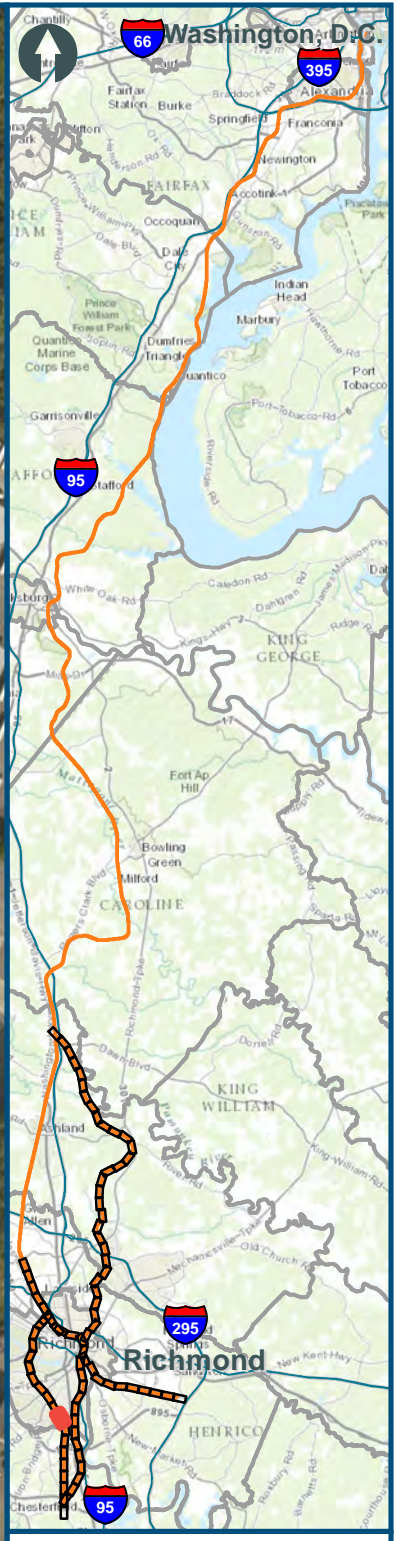
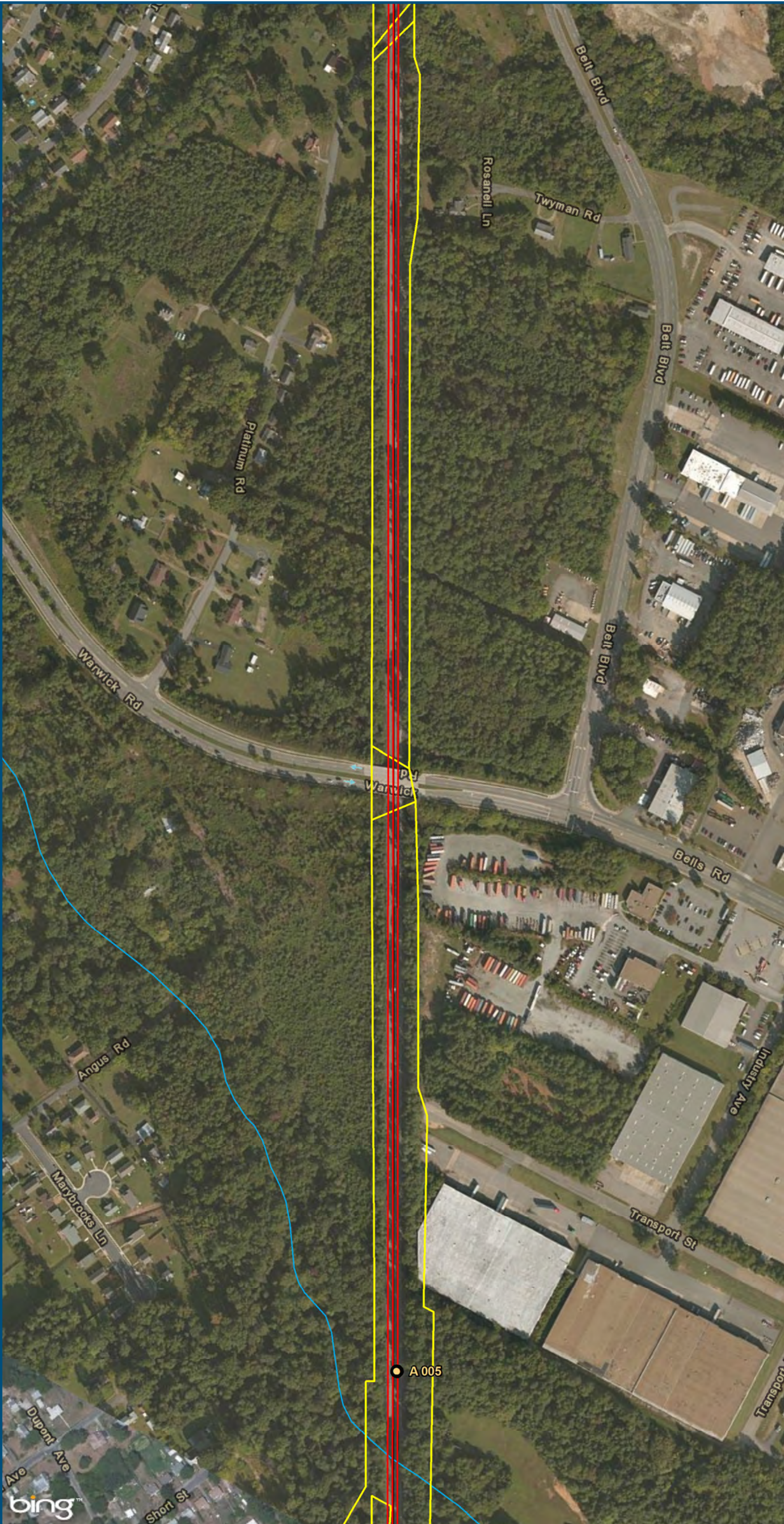
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-34
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEngMap_dcoe\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-35
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

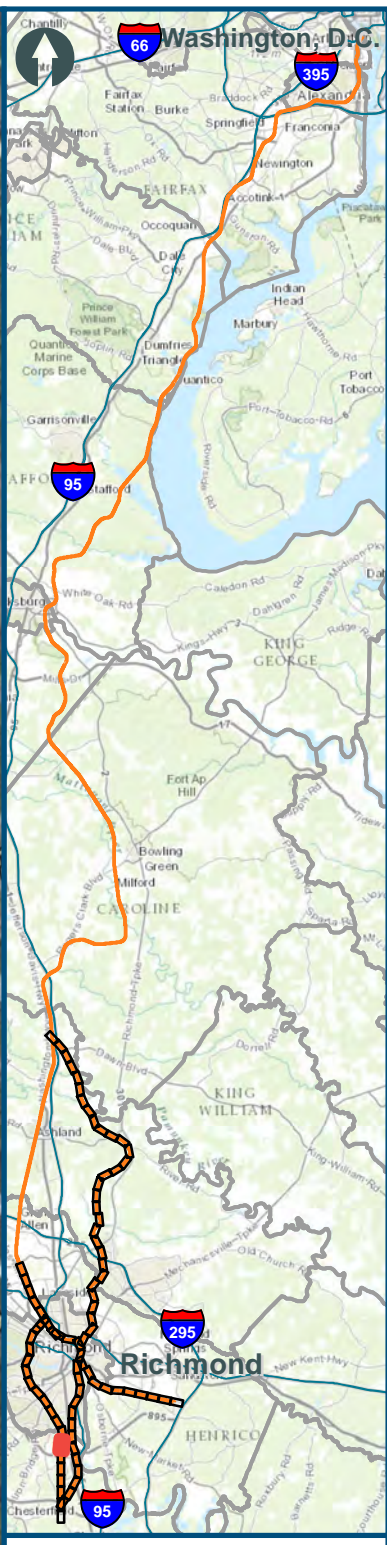
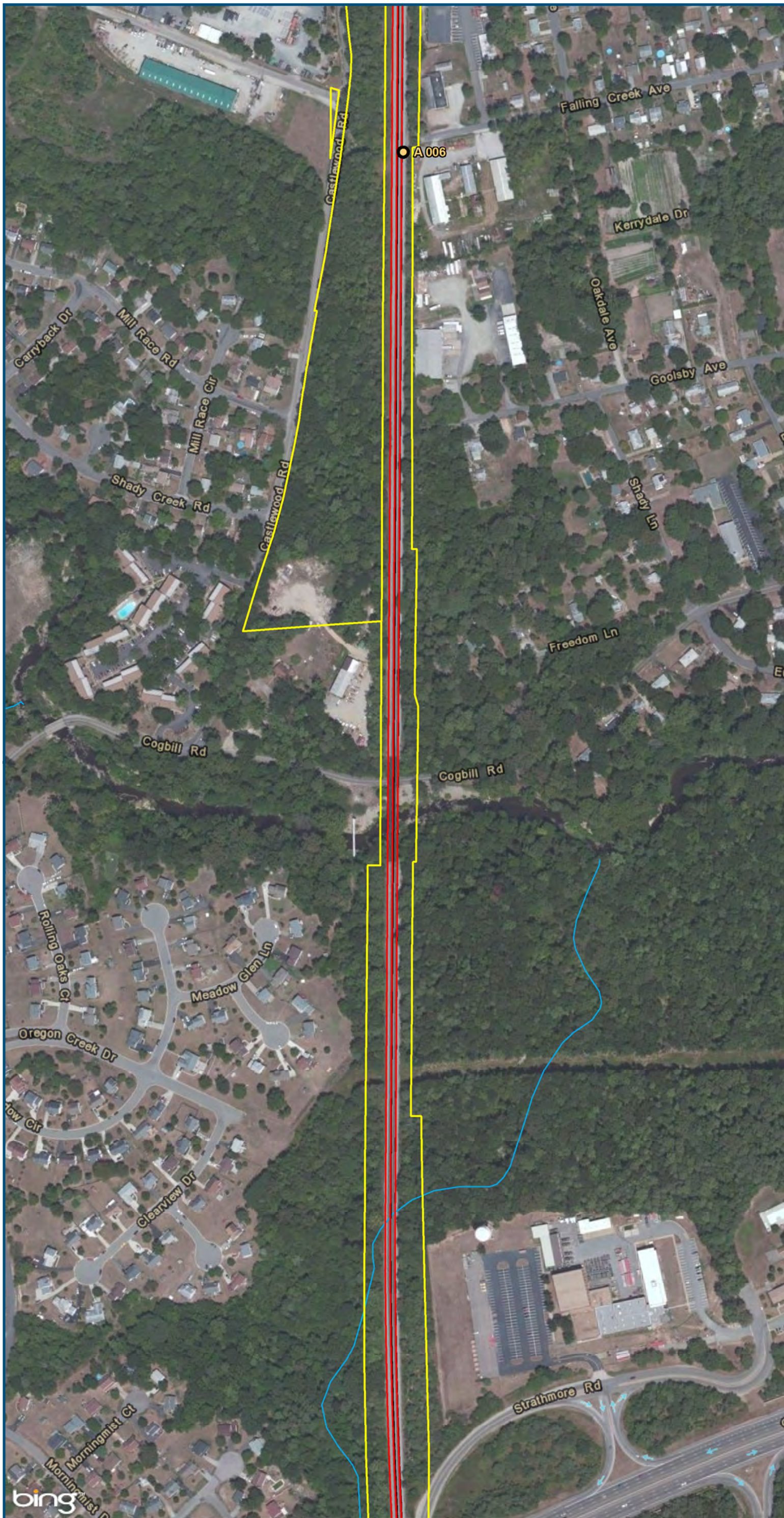


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-36
Richmond Segment
Constrained
Alignment Option

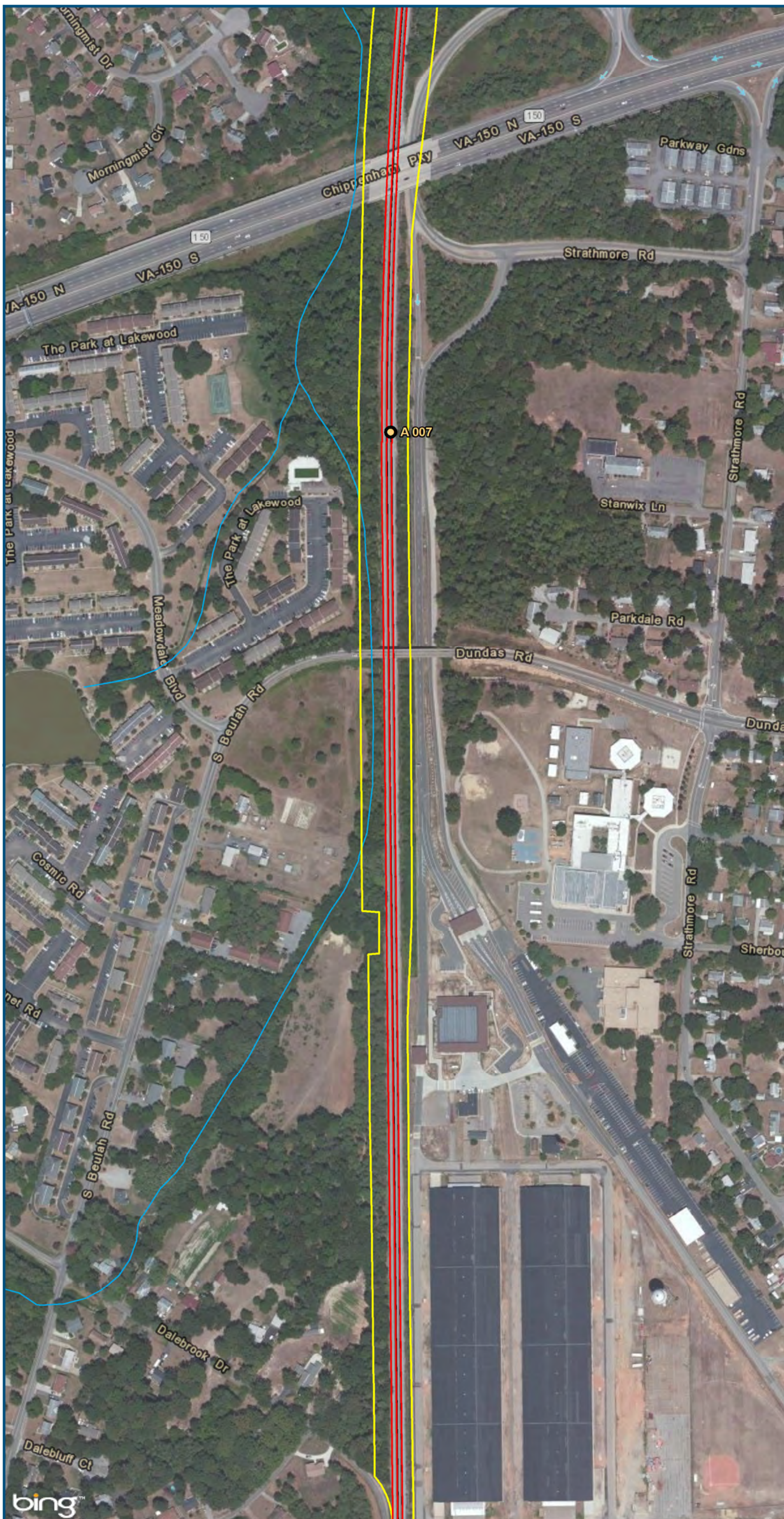
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0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-37
Richmond Segment
Constrained
Alignment Option

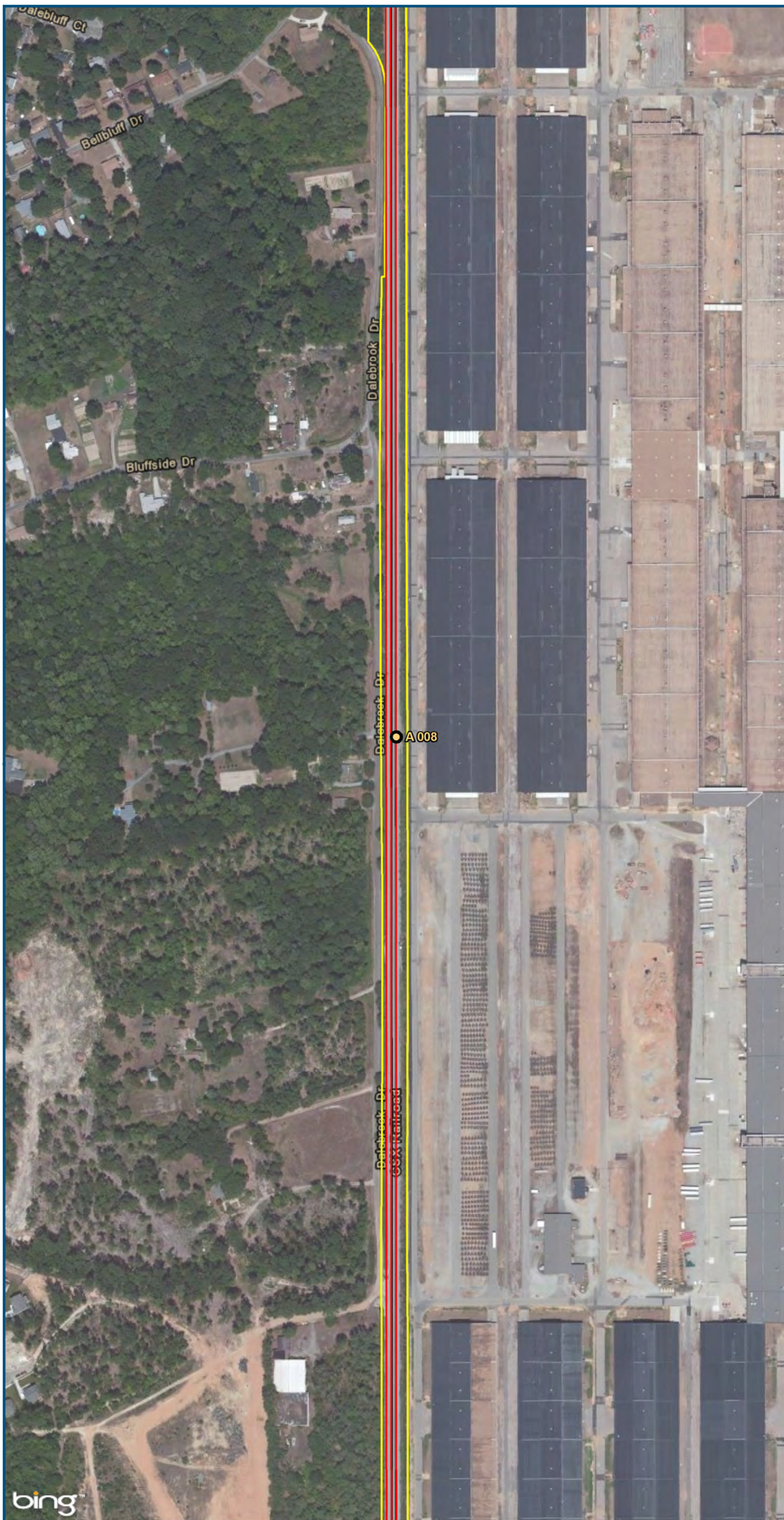


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - ▭ CSXT Right-of-Way
 - Streams

Figure X-38
Richmond Segment
Constrained
Alignment Option

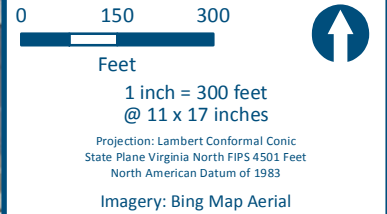
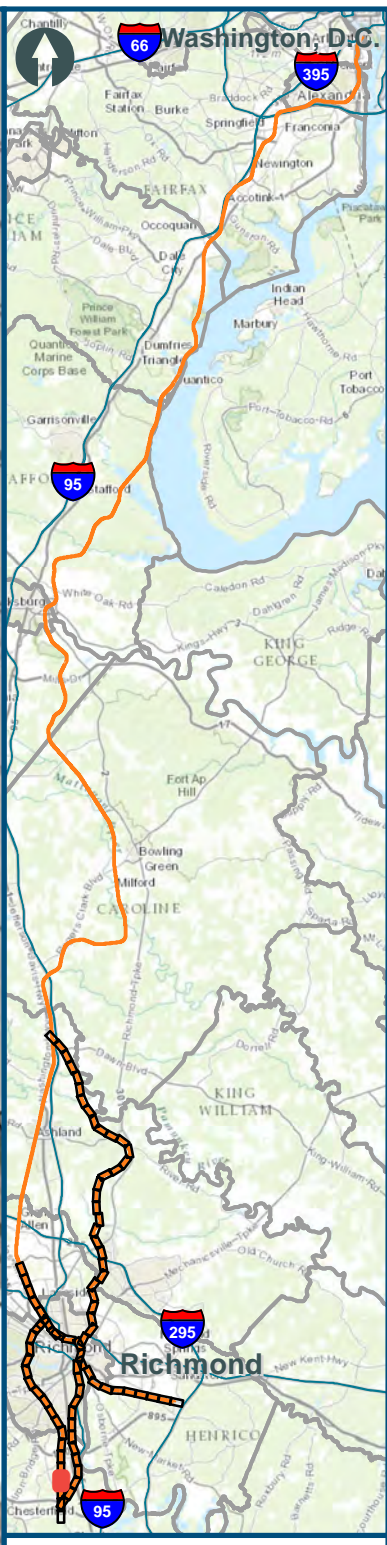
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0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

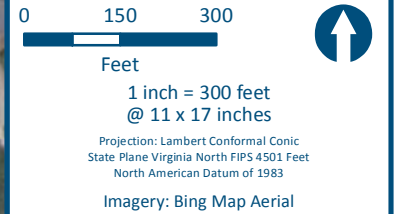
Figure X-39
Richmond Segment
Constrained
Alignment Option



- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-40
Richmond Segment
Constrained
Alignment Option

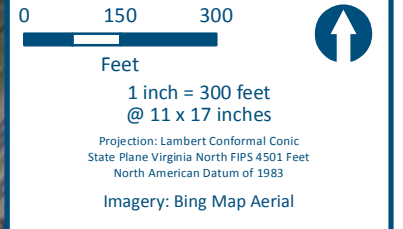
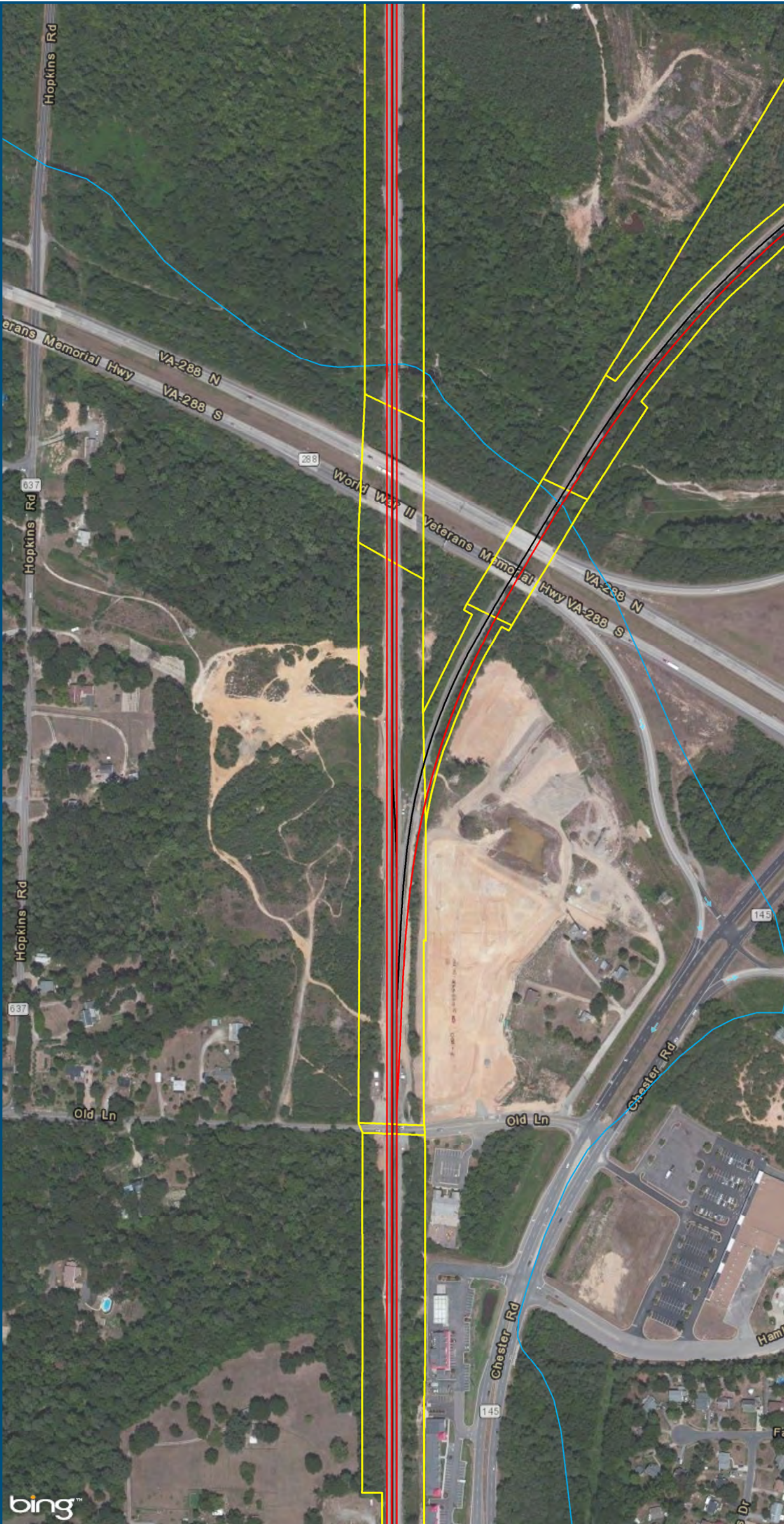
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

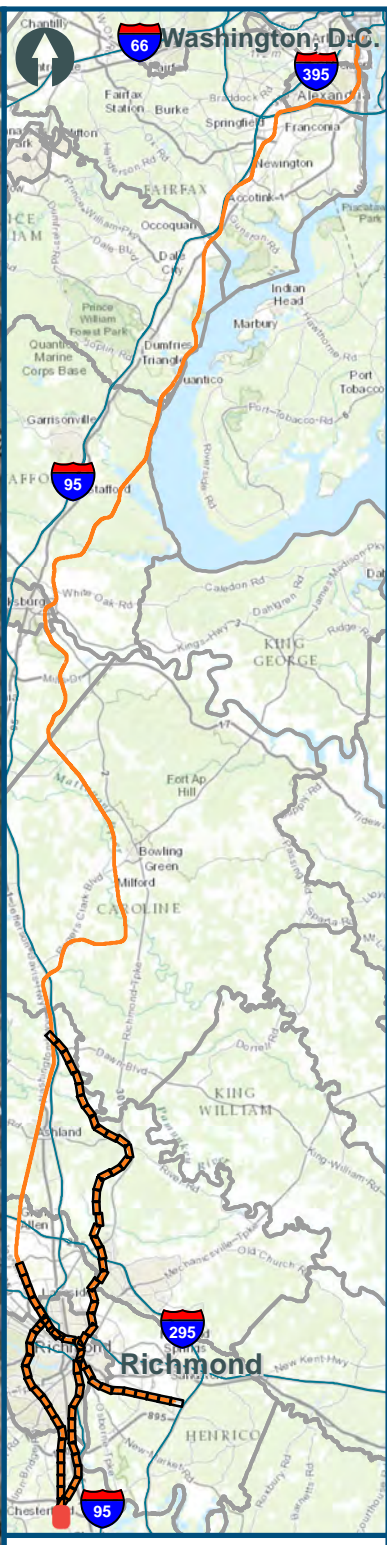
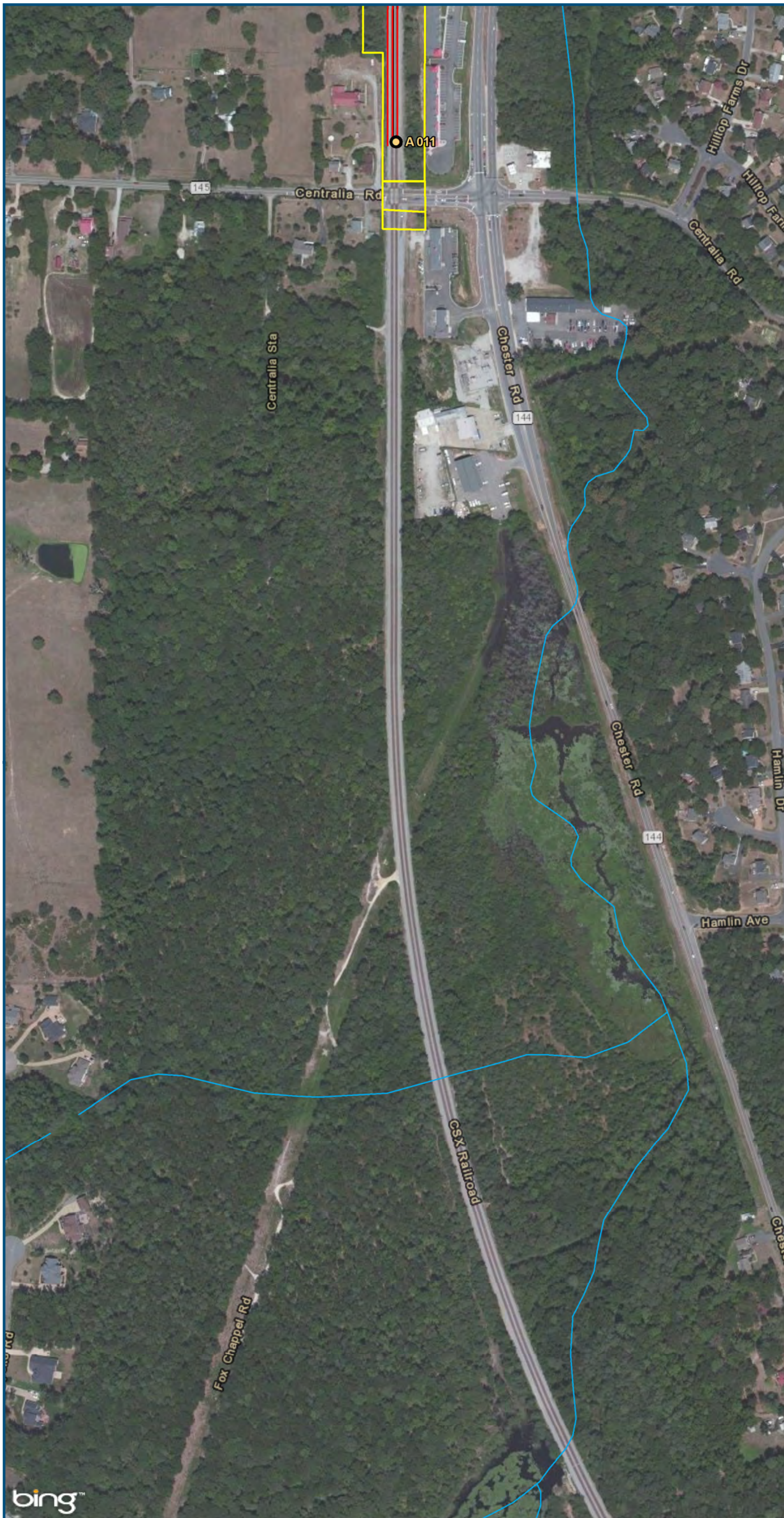
Figure X-41
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Chr6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

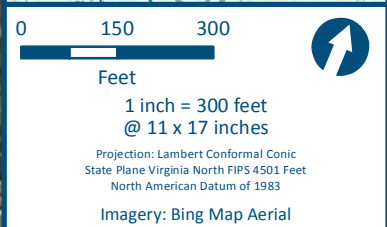
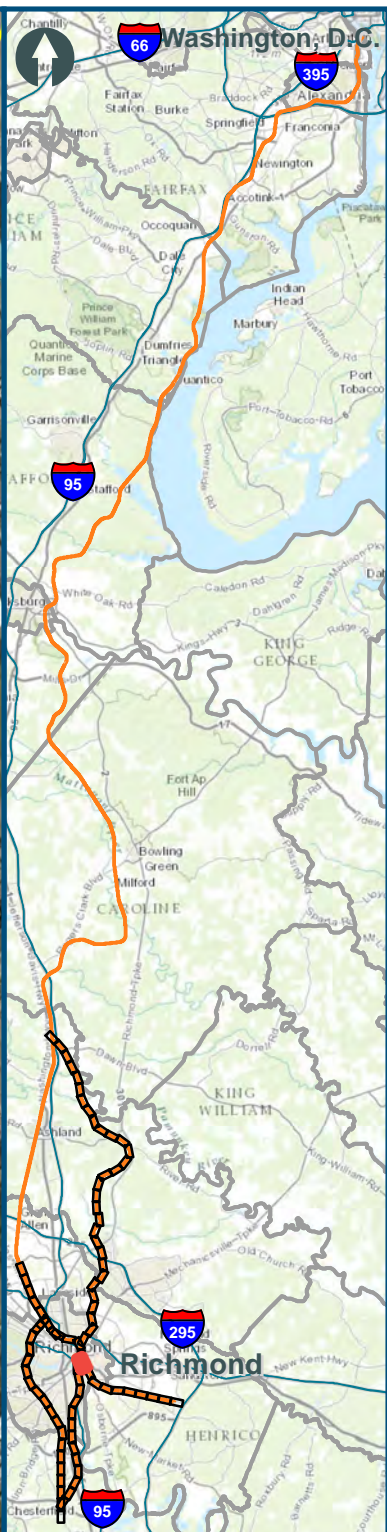
Figure X-42
Richmond Segment
Constrained
Alignment Option



0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-43
Richmond Segment
Constrained
Alignment Option

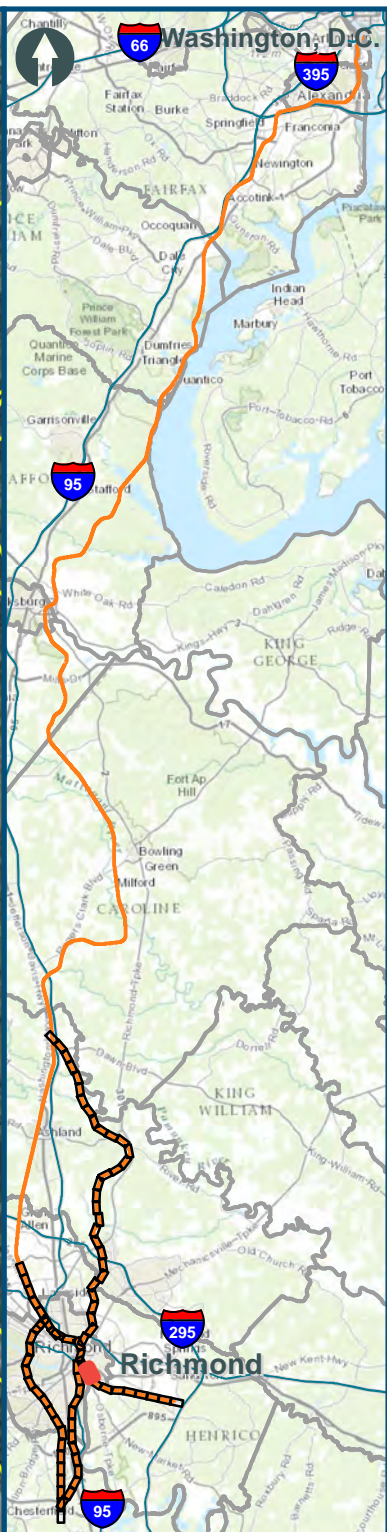
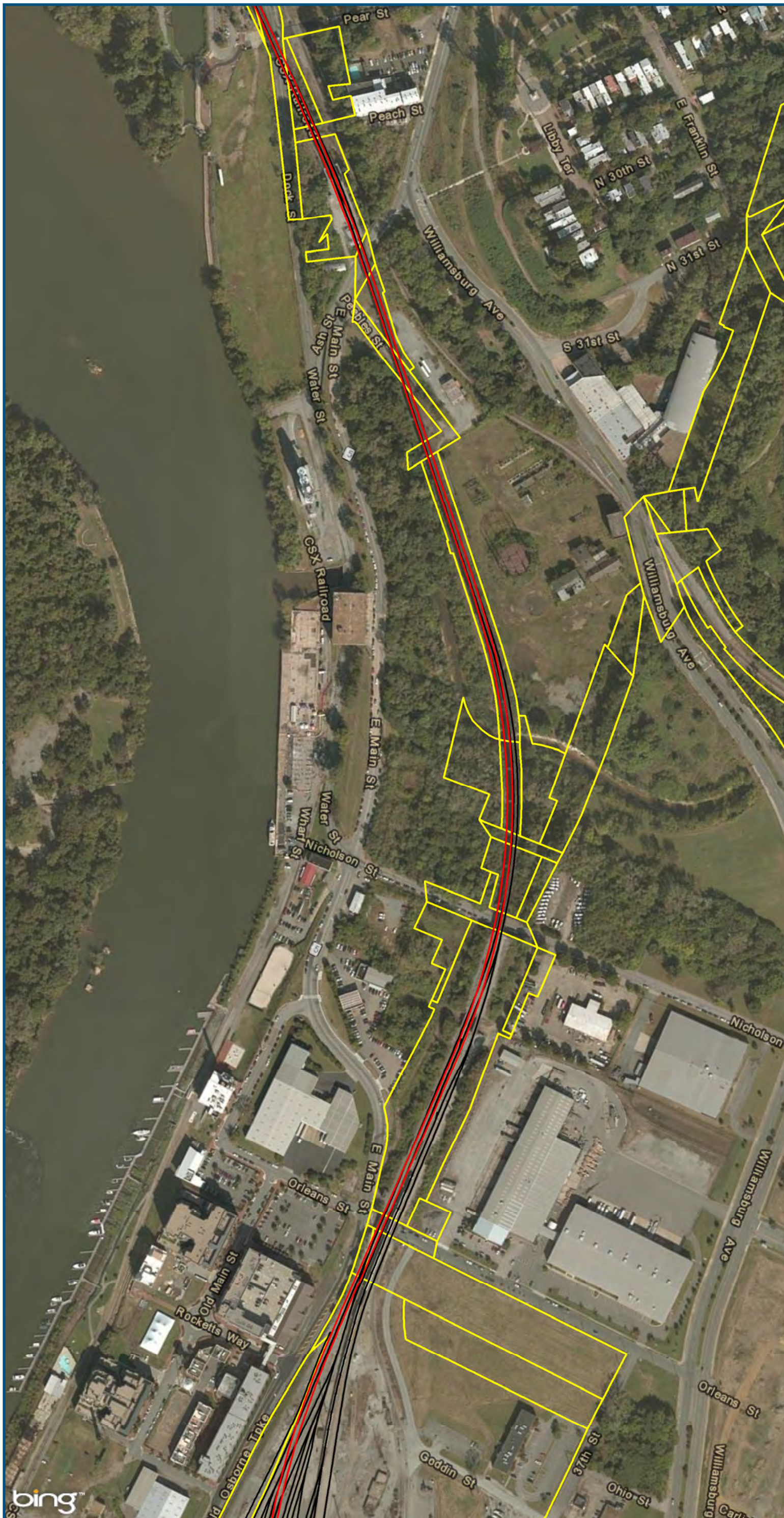


- Legend**
- Amtrak Station
 - CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

Figure X-44
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotofRalls-PublicTransportation\0239056_RAPS-4\Dev-Concept\Eng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

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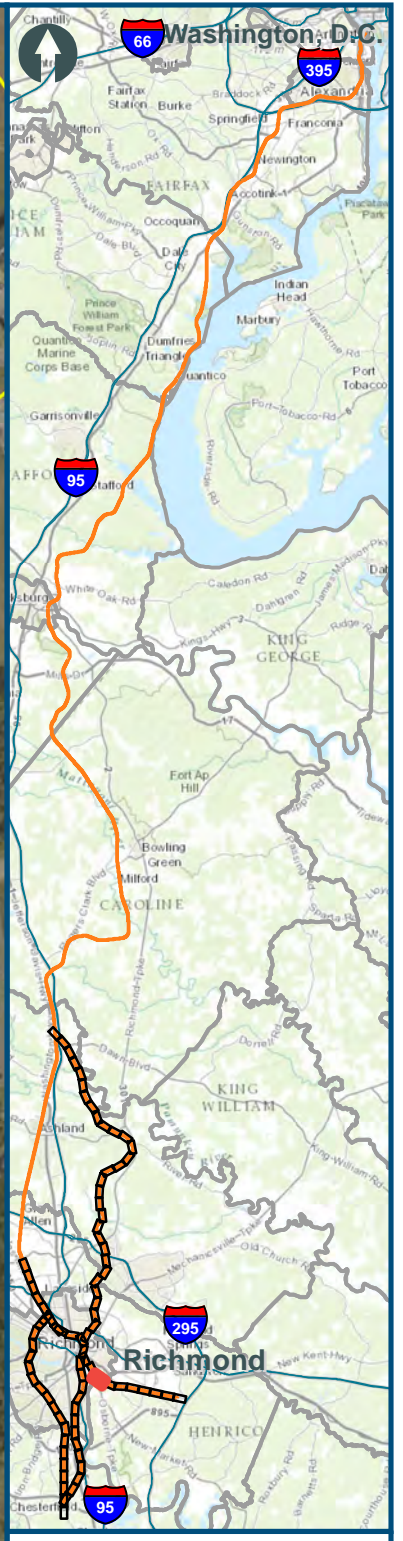
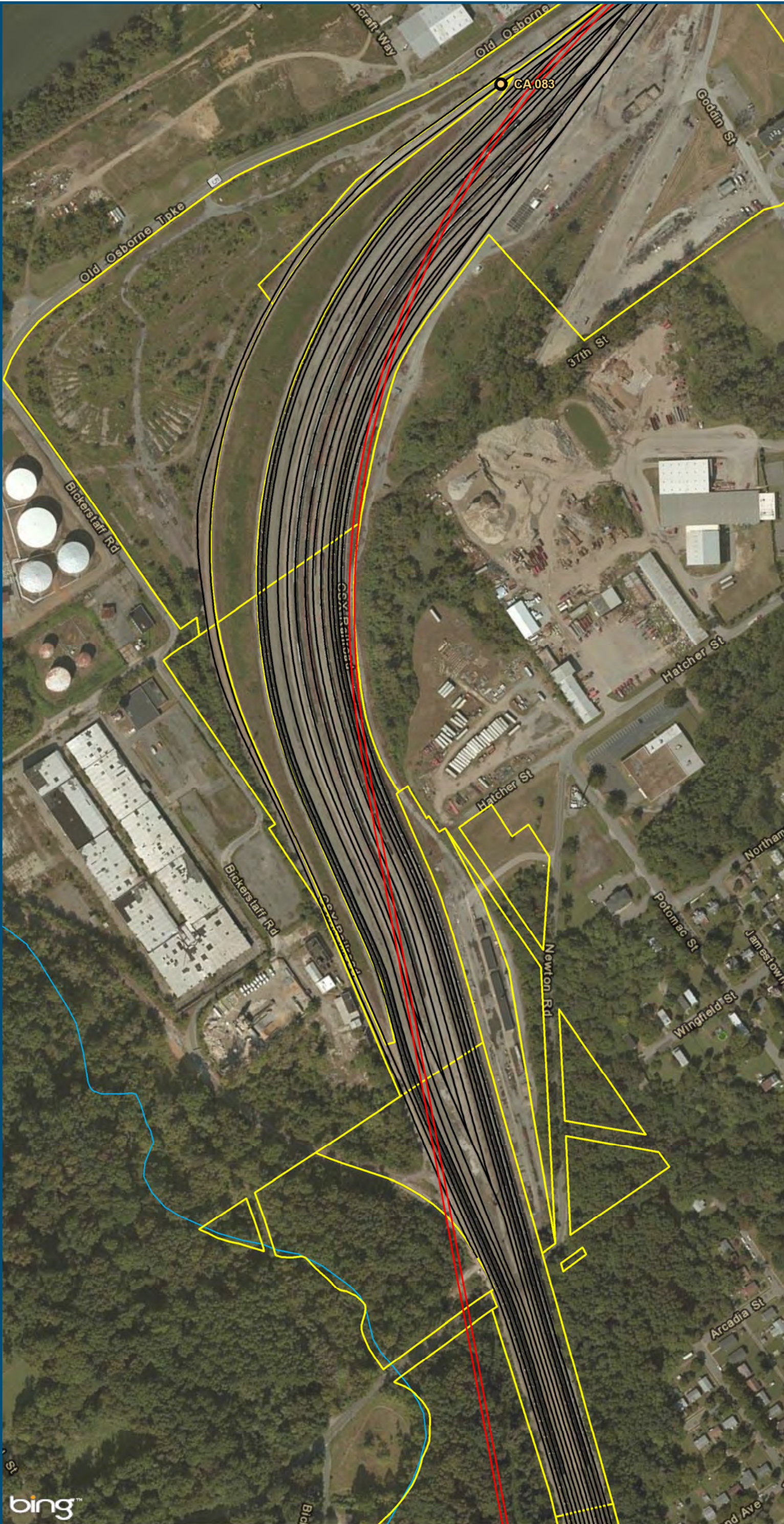
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way

Figure X-45
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4A\Dev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

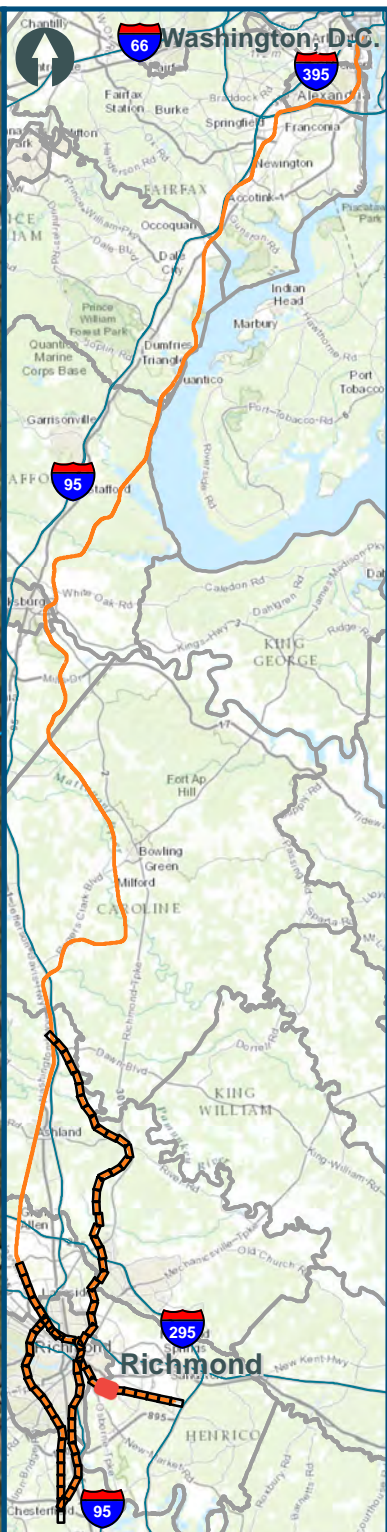
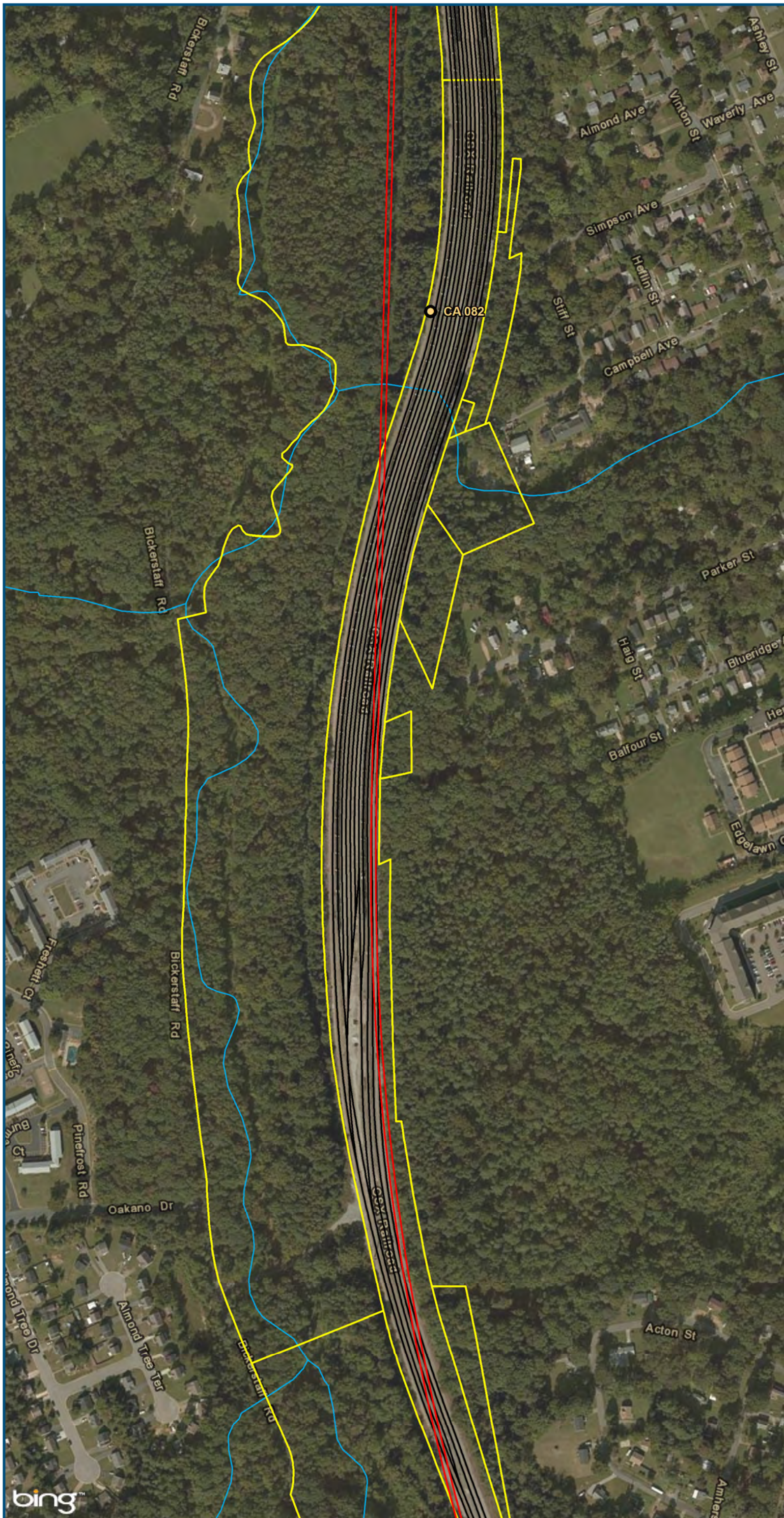


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-46
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotRailPublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



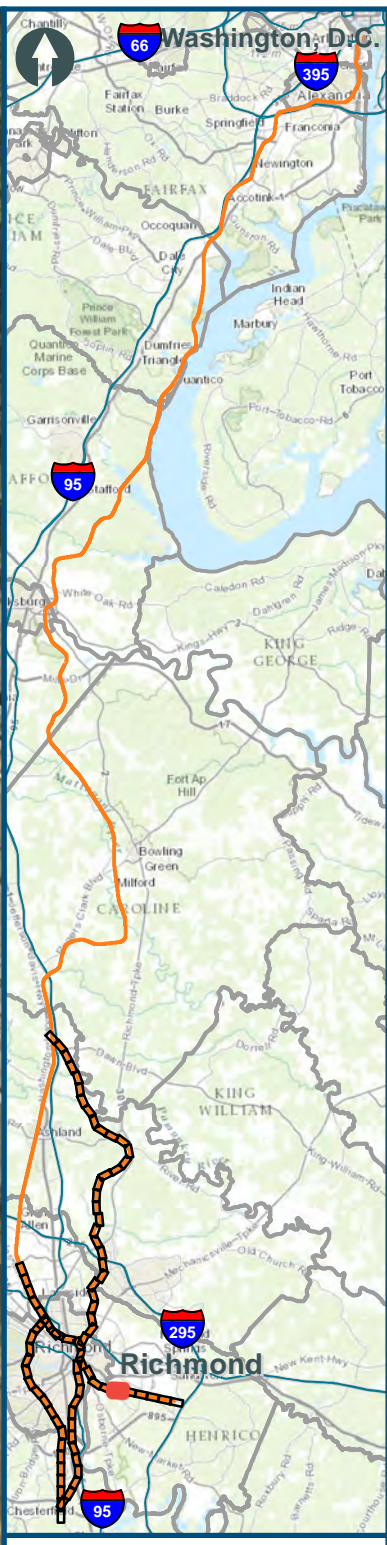
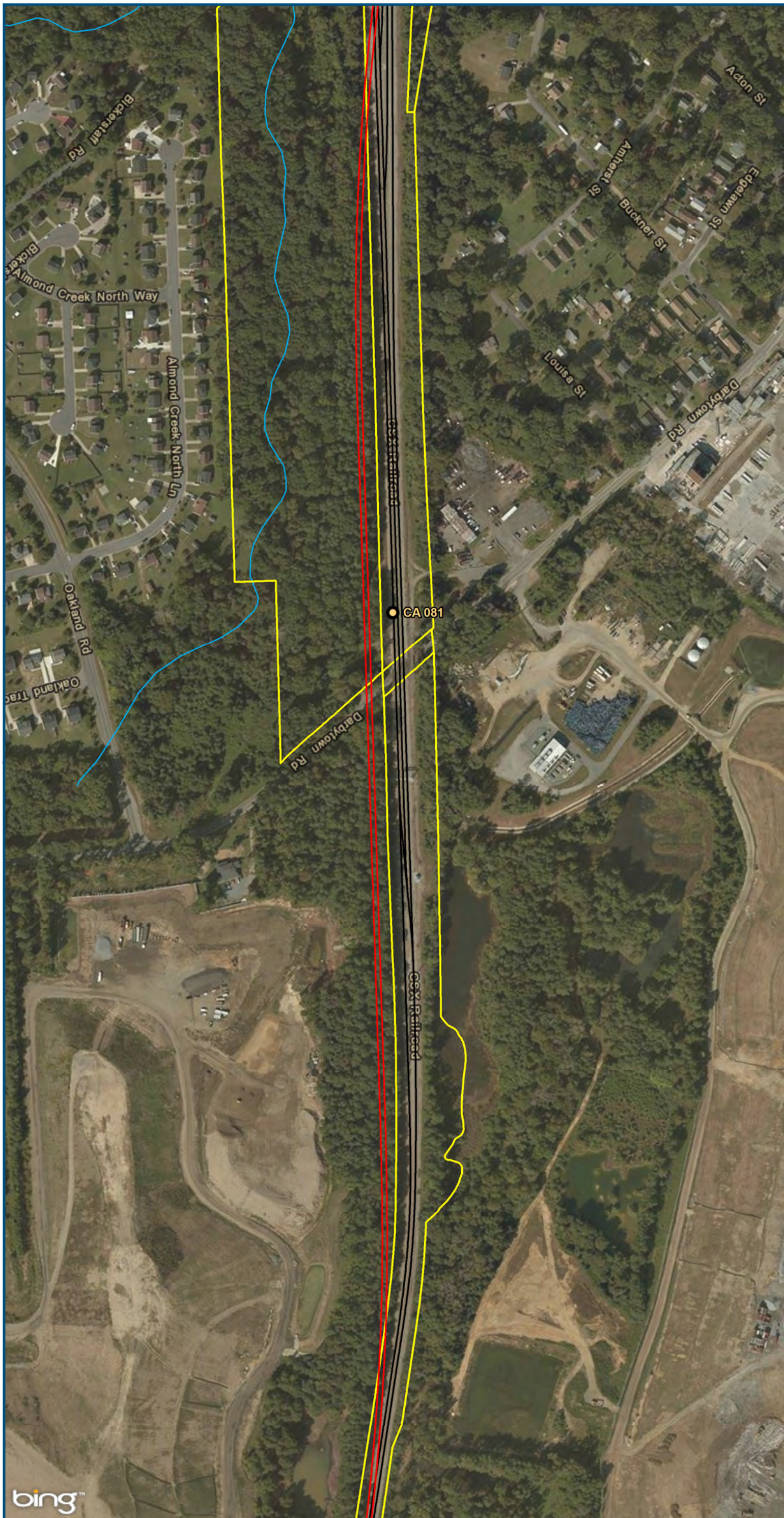
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-47
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4\Dev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

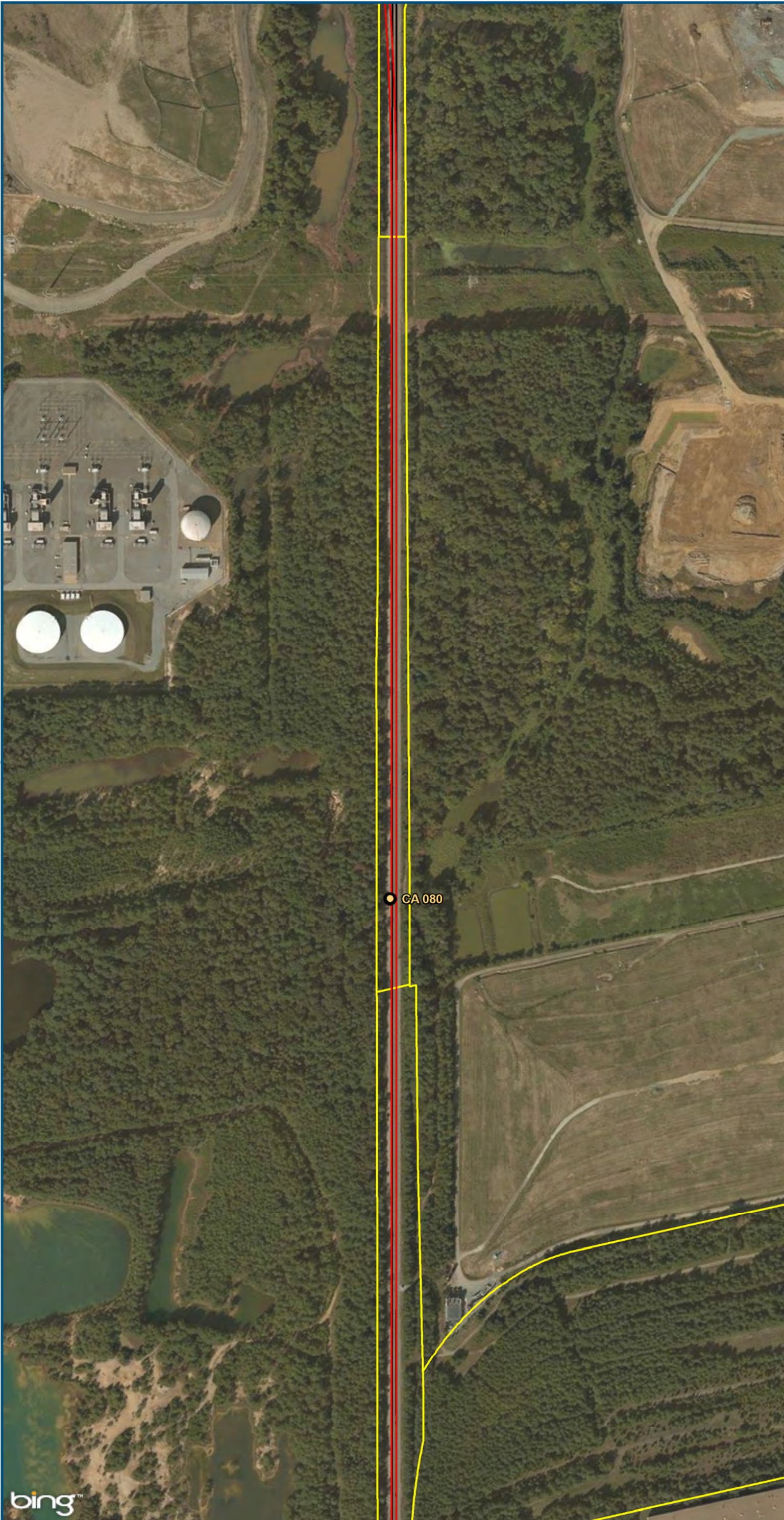


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-48
Richmond Segment
Constrained
Alignment Option

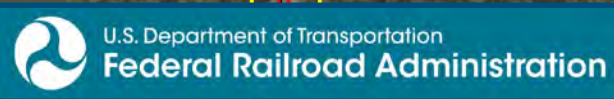
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0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way

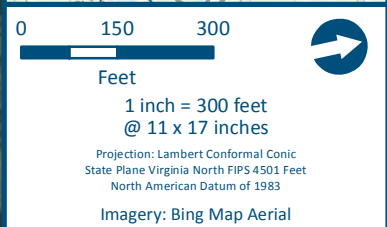
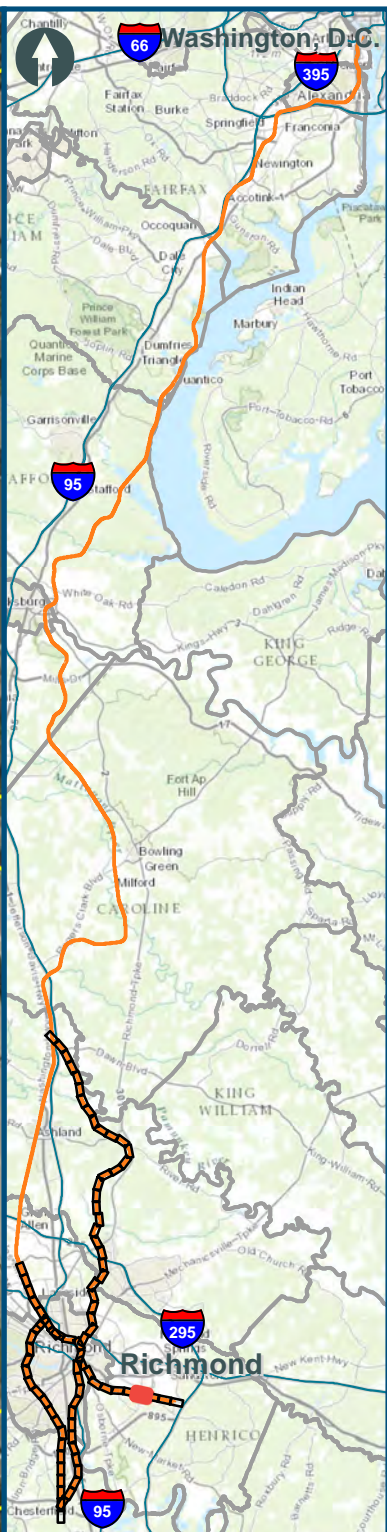
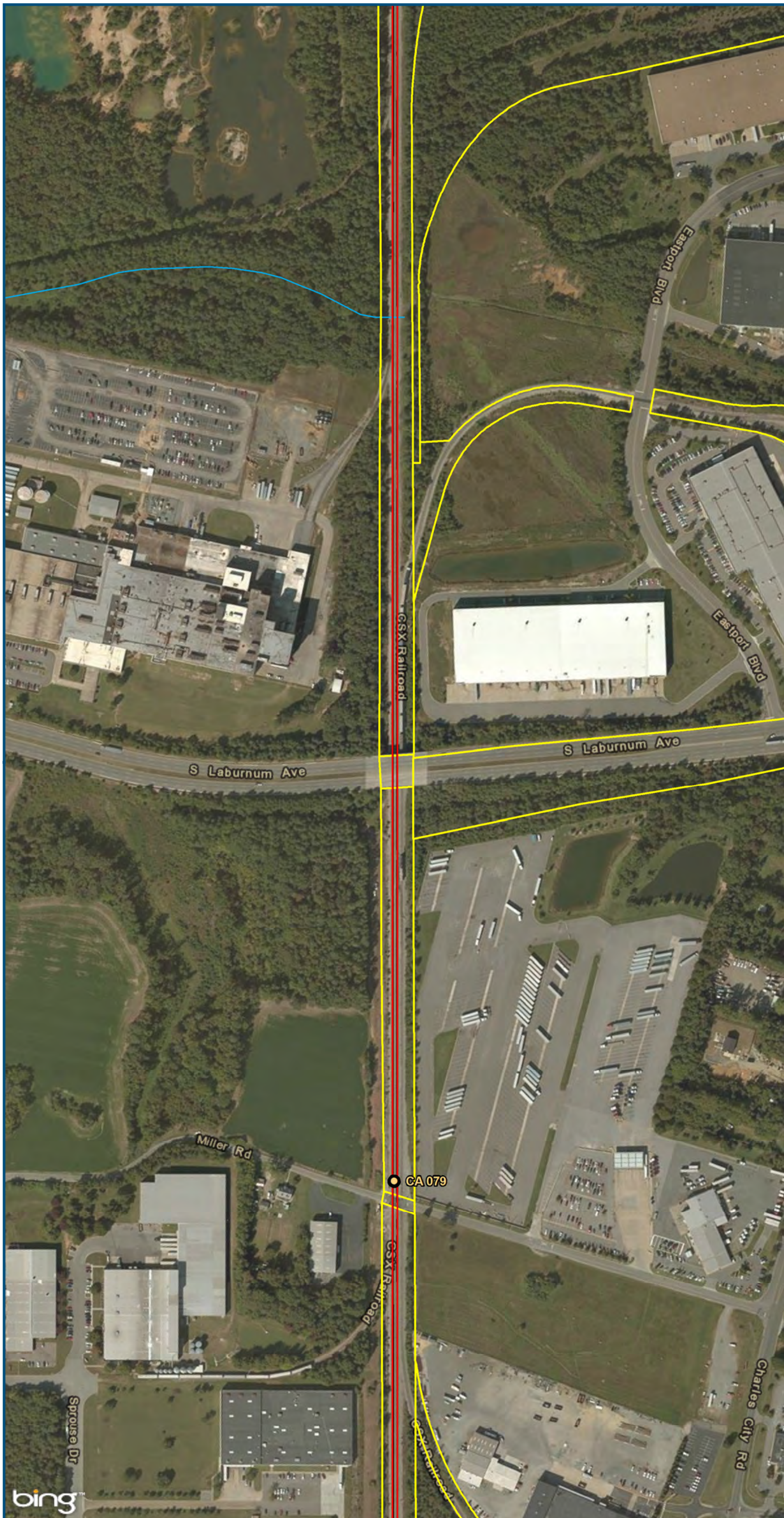
Figure X-49
Richmond Segment
Constrained
Alignment Option



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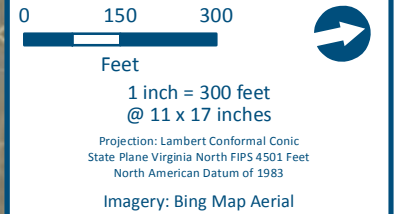
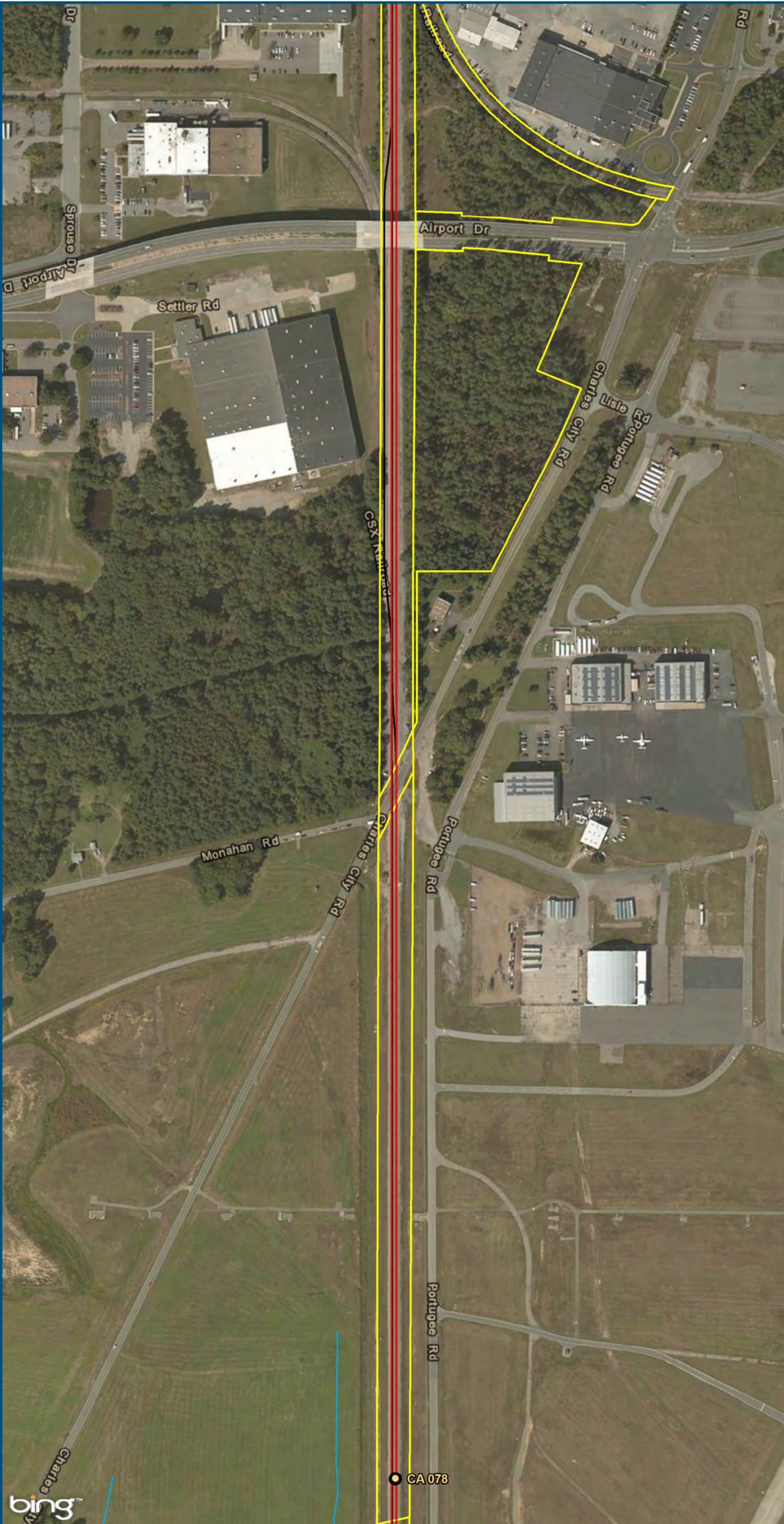
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-50
Richmond Segment
Constrained
Alignment Option

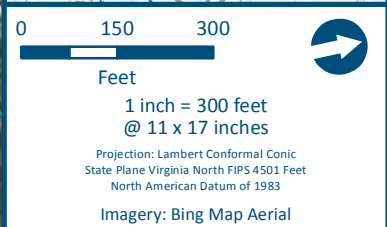
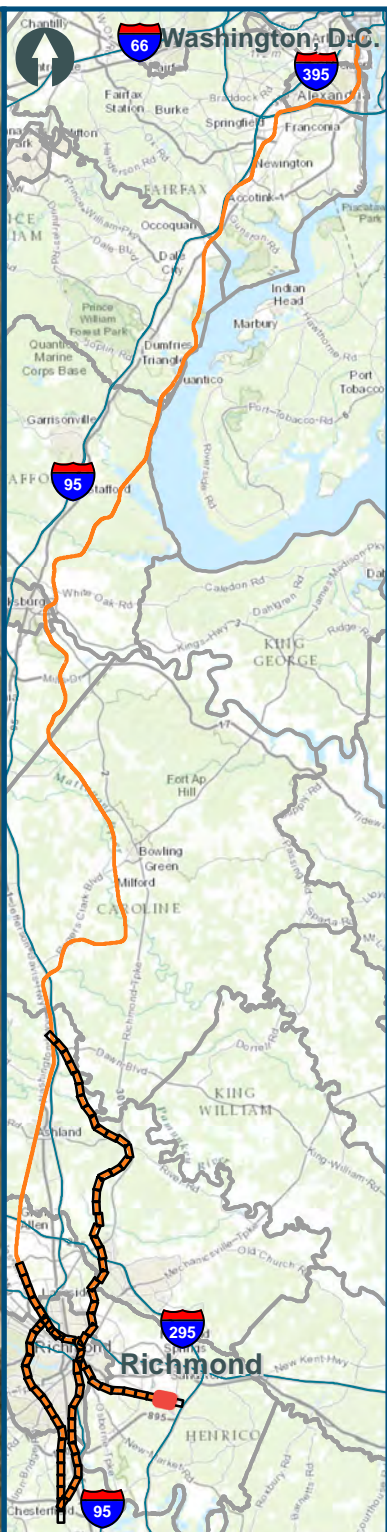
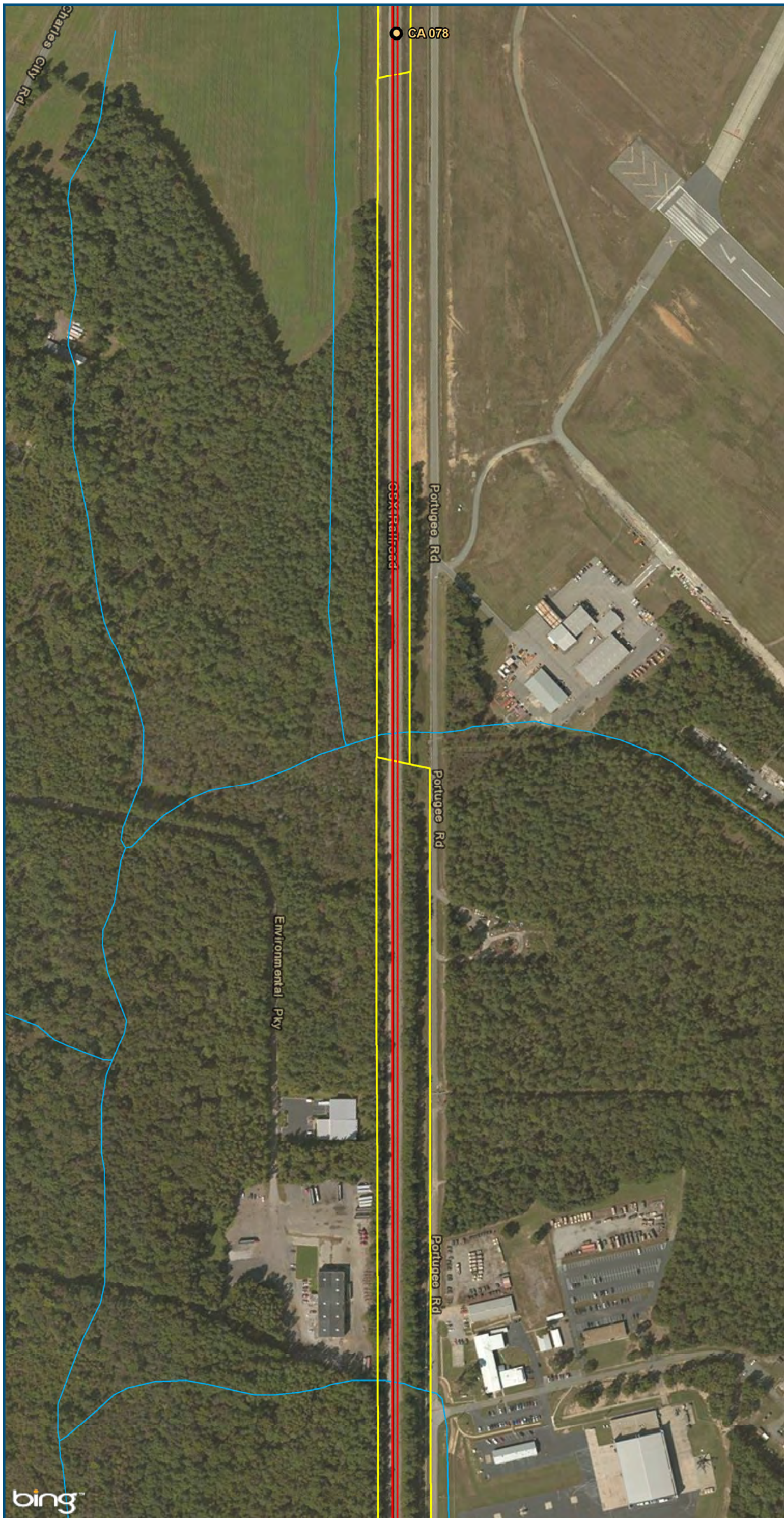
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-51
Richmond Segment
Constrained
Alignment Option

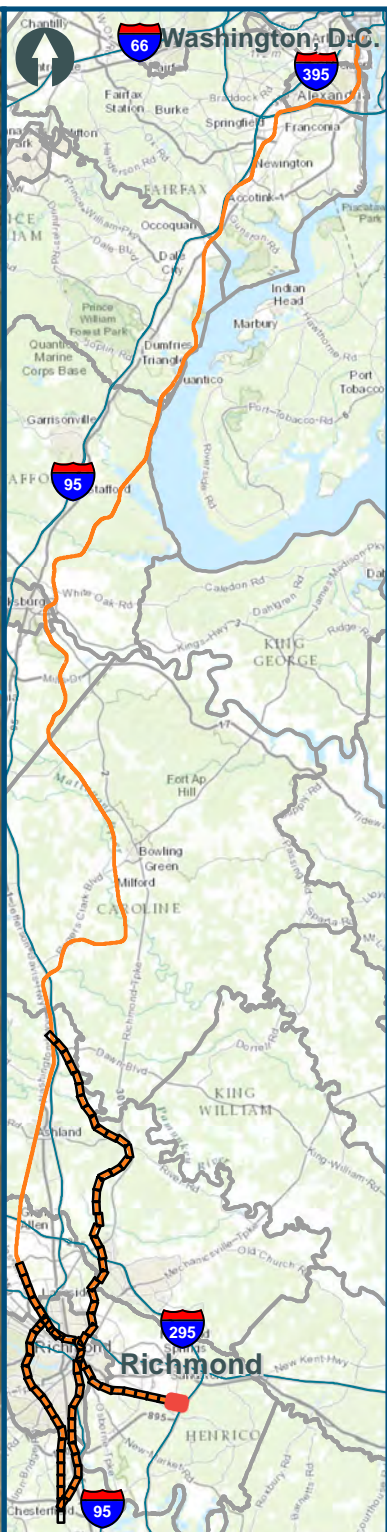
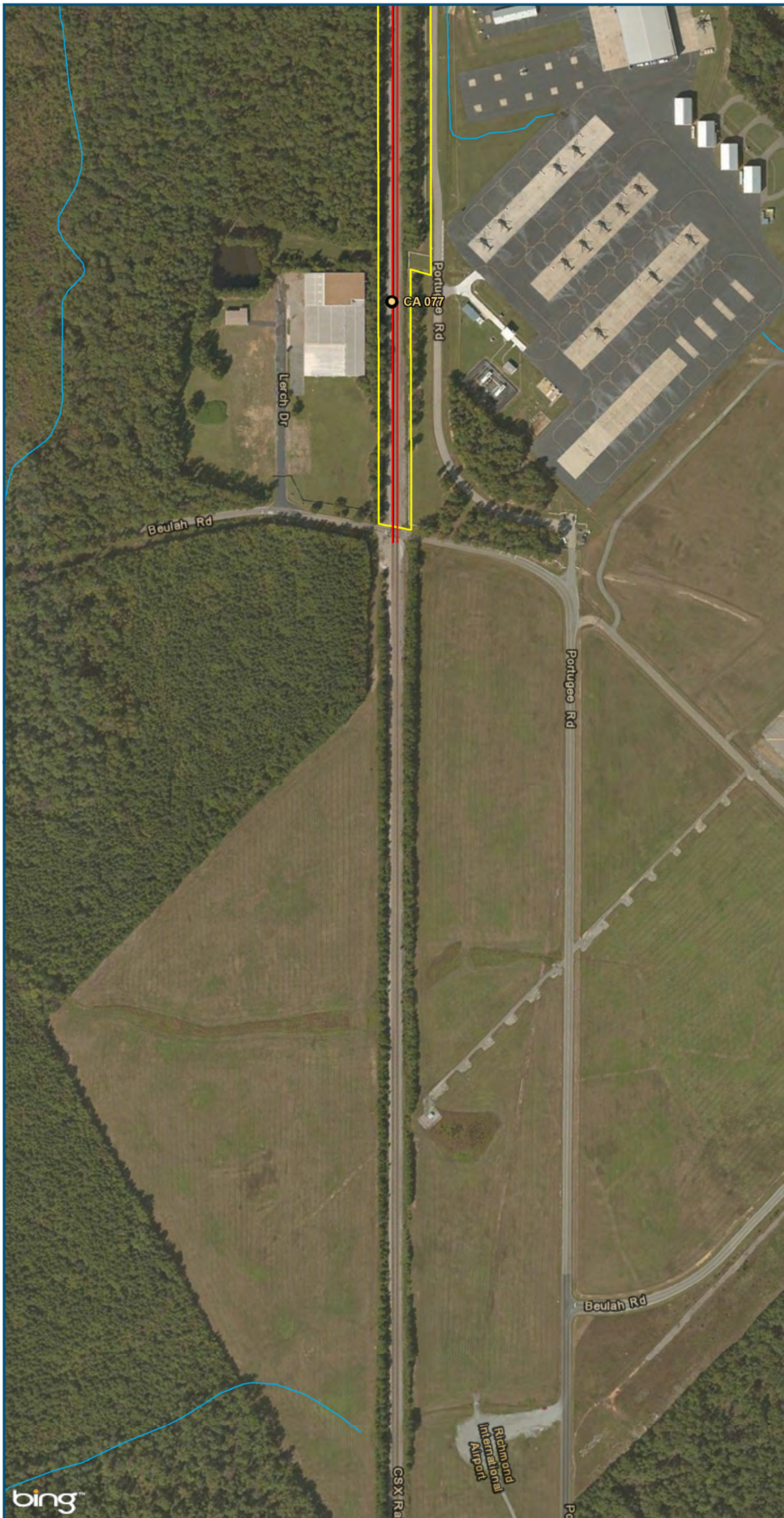
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-52
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AIDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Chr6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-53
Richmond Segment
Constrained
Alignment Option

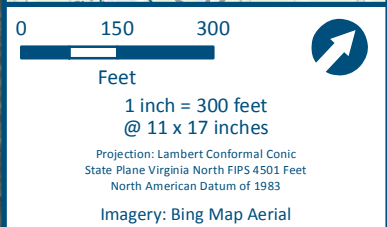
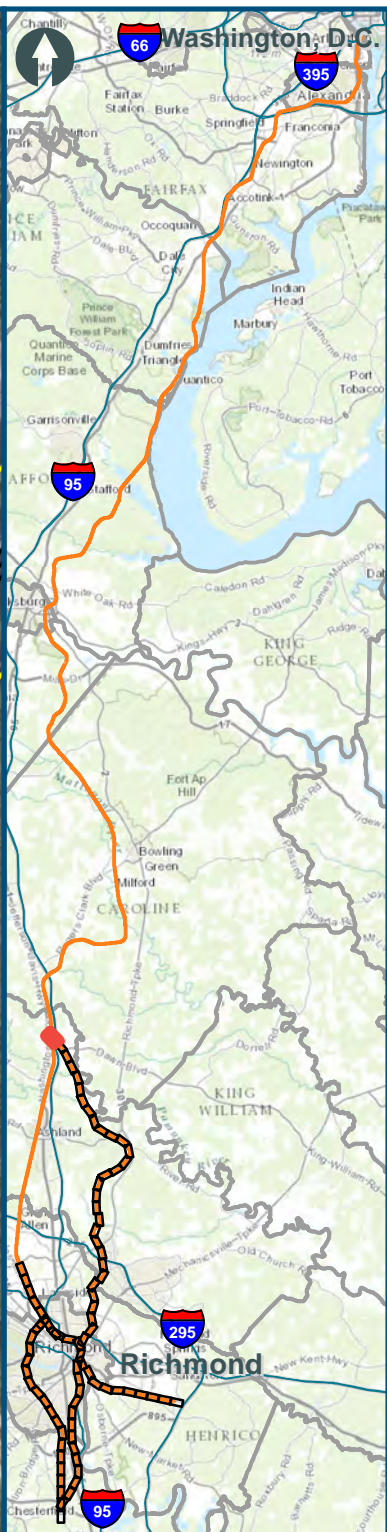
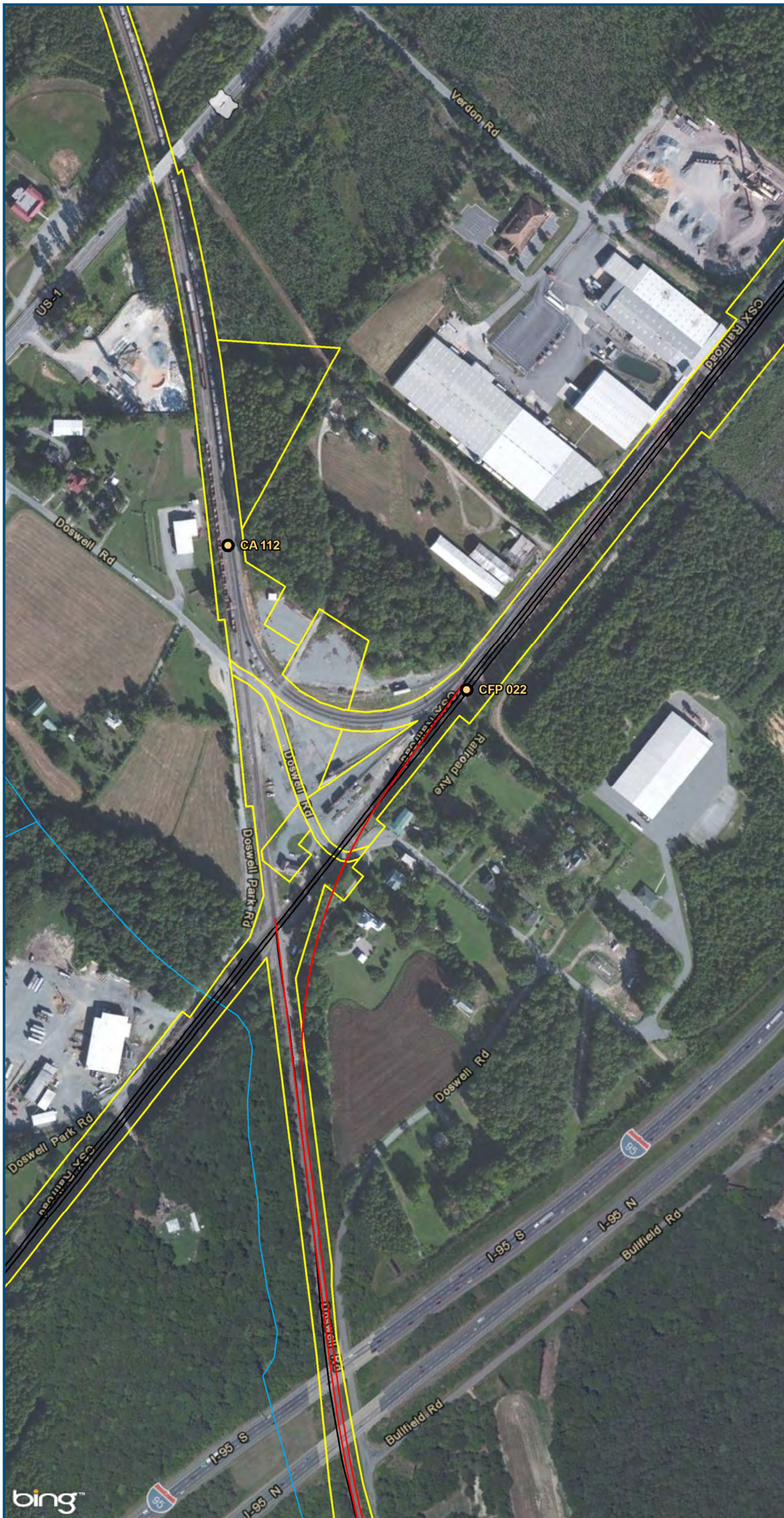


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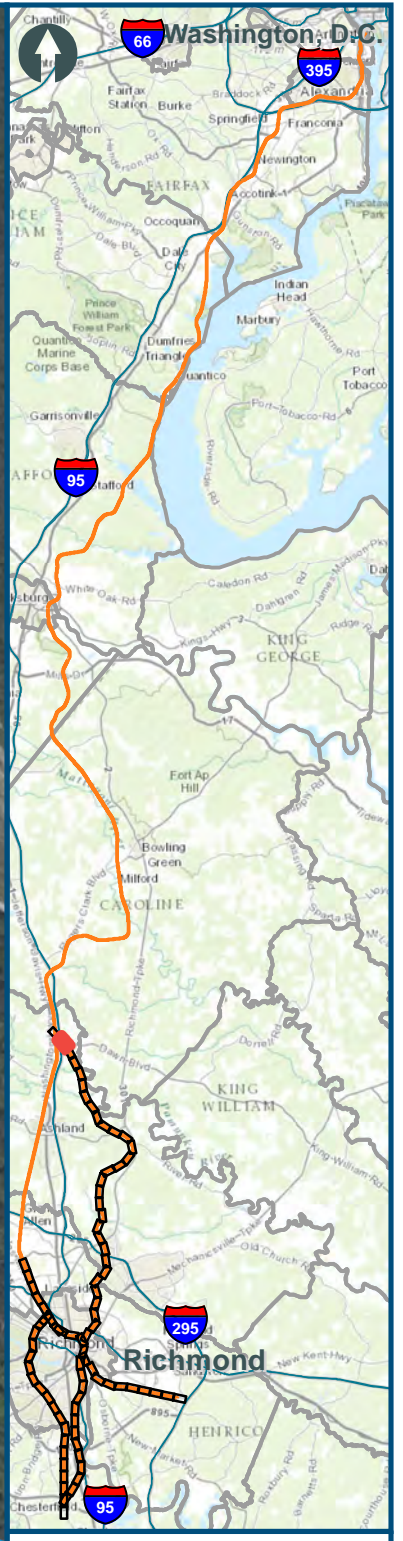
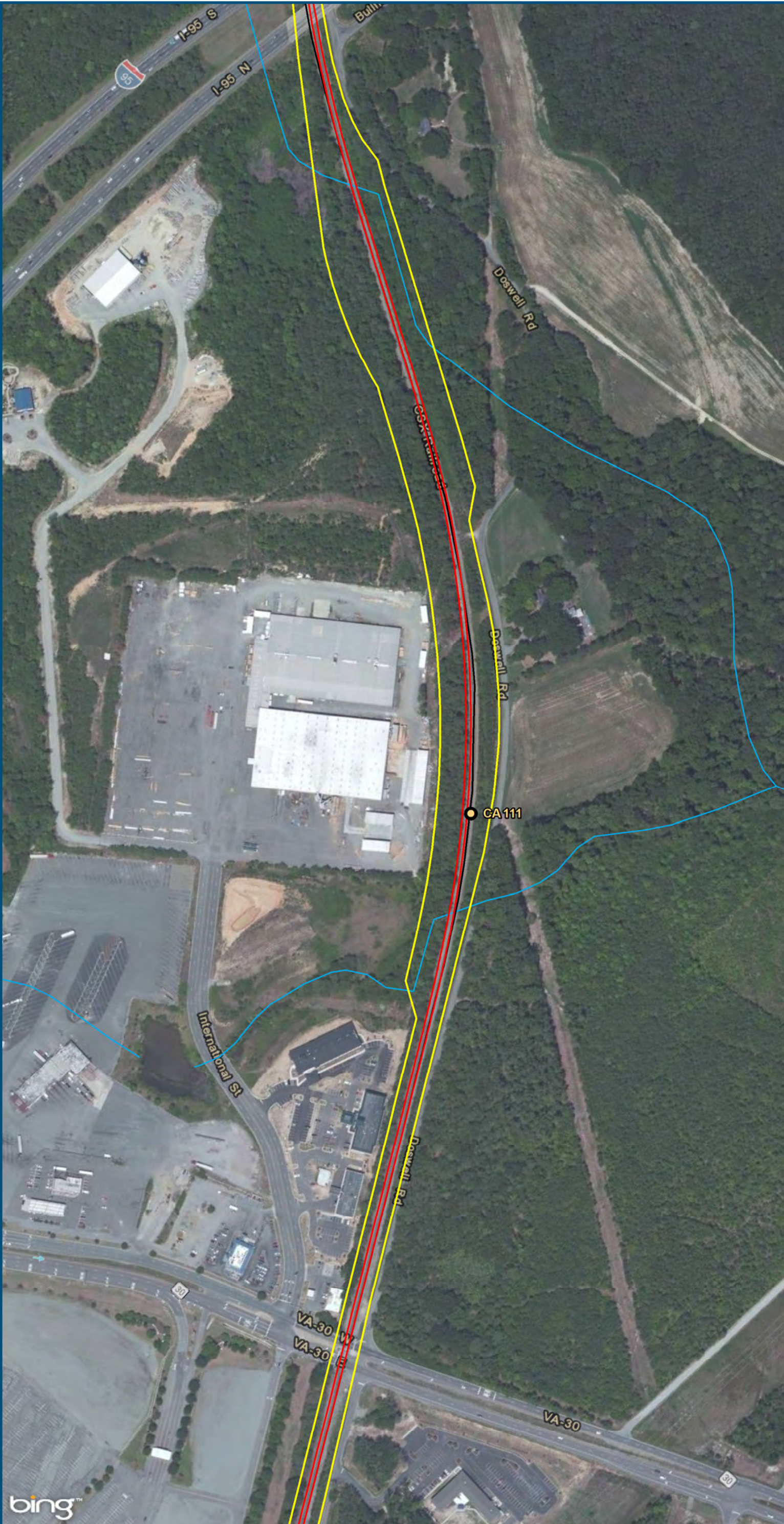


Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-54
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

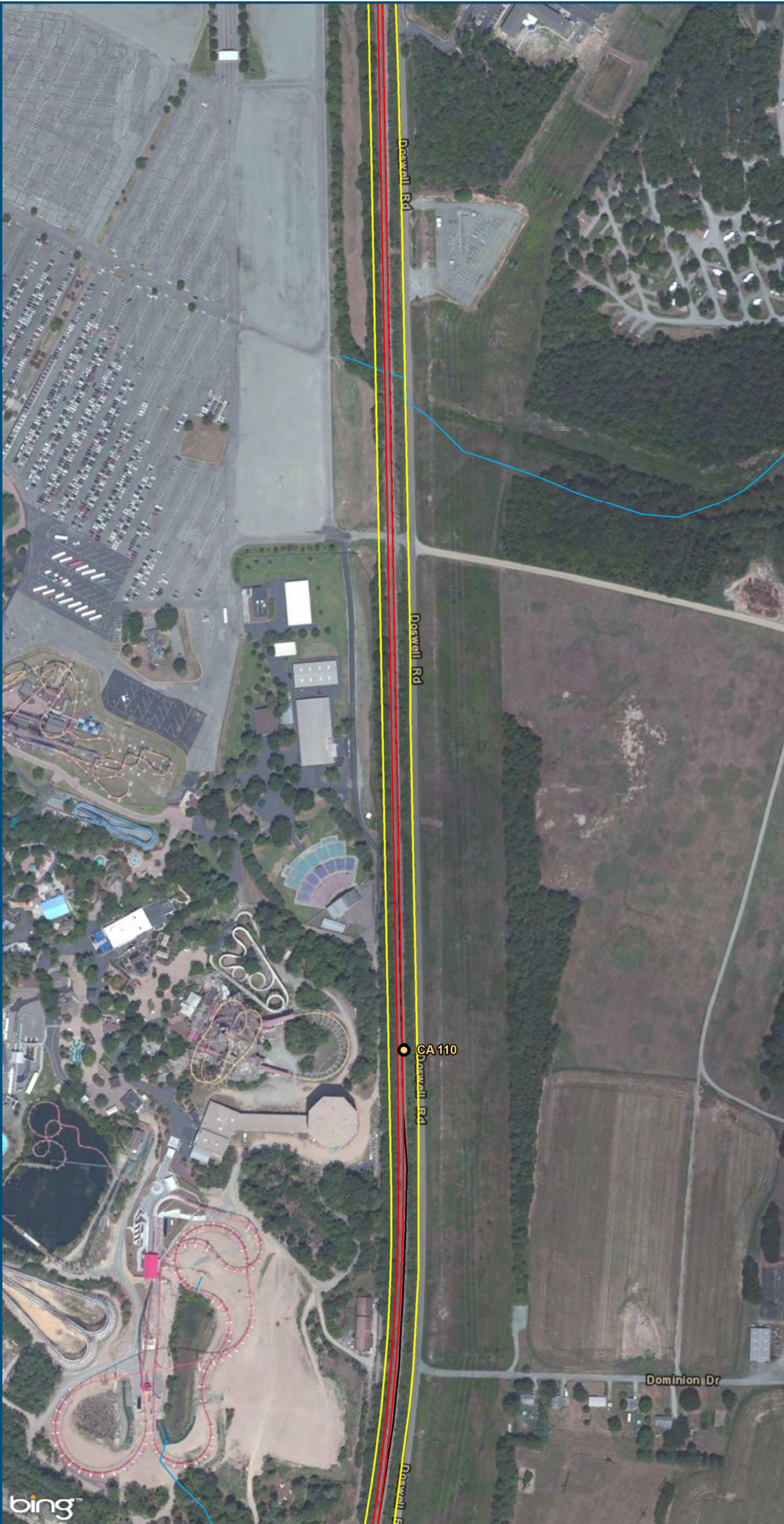


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - ▭ CSXT Right-of-Way
 - Streams

Figure X-55
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

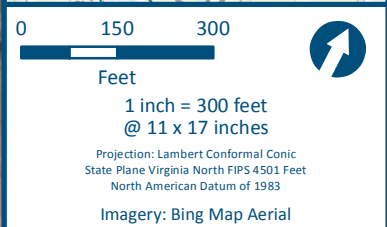
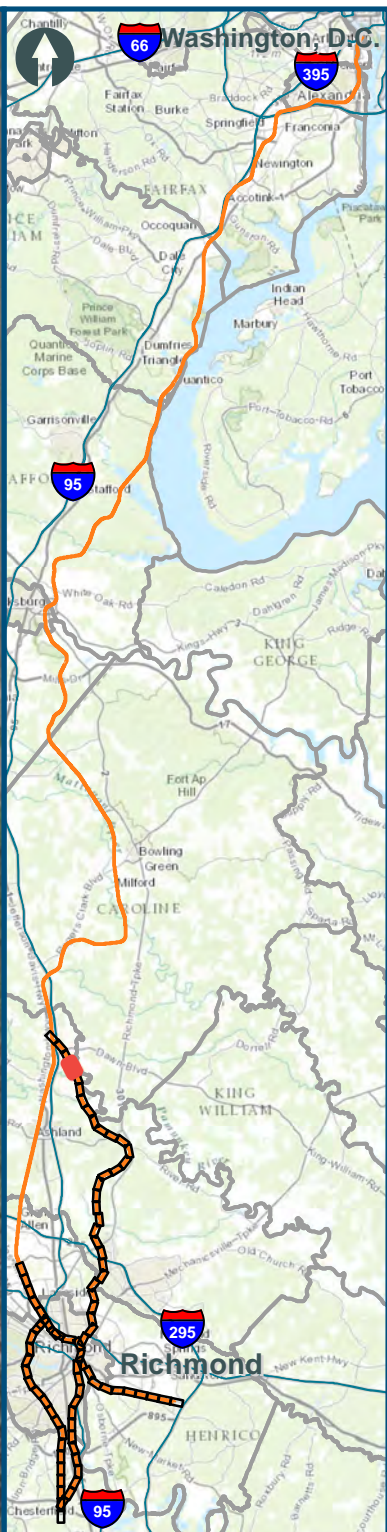


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-56
Richmond Segment
Constrained
Alignment Option

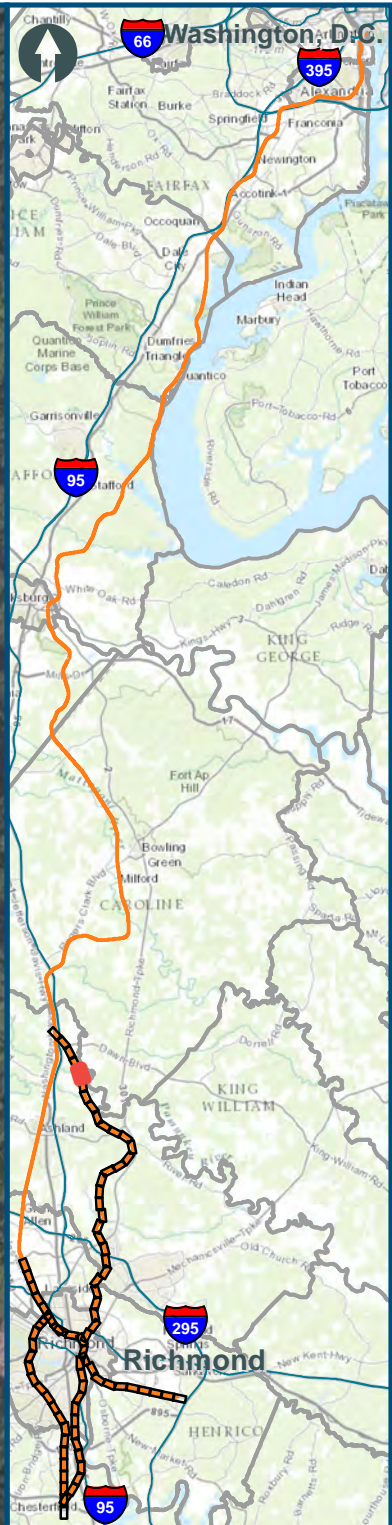
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-57
Richmond Segment
Constrained
Alignment Option

\\cslsmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-58
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend






-  CSXT Mileposts
-  New Track
-  Existing Track
-  CSXT Right-of-Way
-  Streams

Figure X-59
Richmond Segment
Constrained
Alignment Option

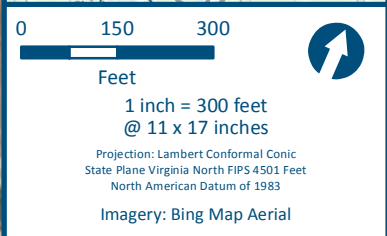
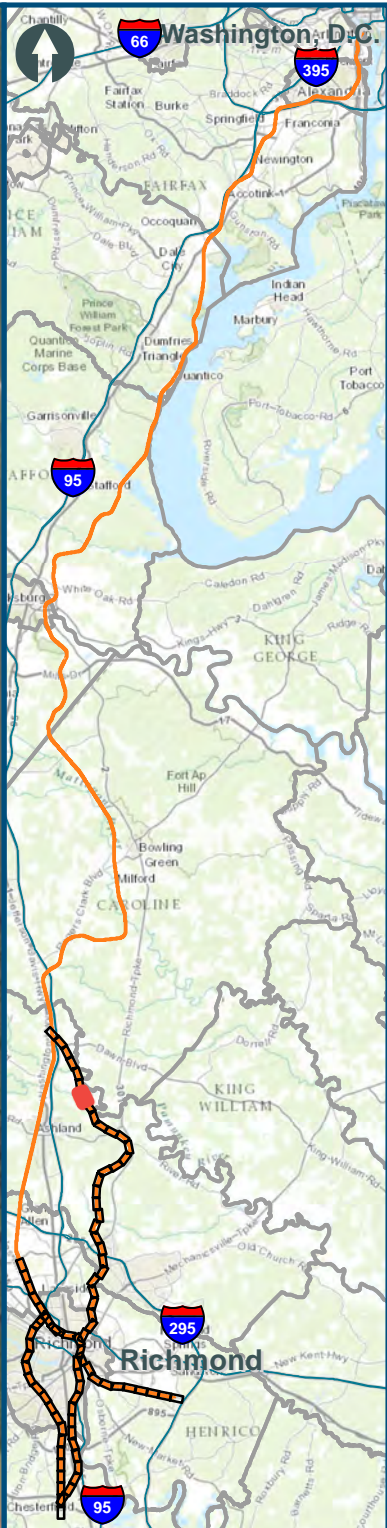


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- Legend**
-  CSXT Mileposts
 -  New Track
 -  Existing Track
 -  CSXT Right-of-Way
 -  Streams

Figure X-60
Richmond Segment
Constrained
Alignment Option

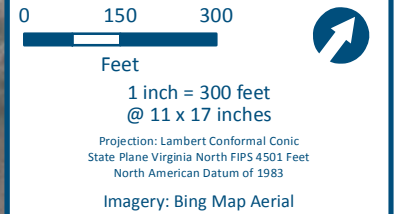
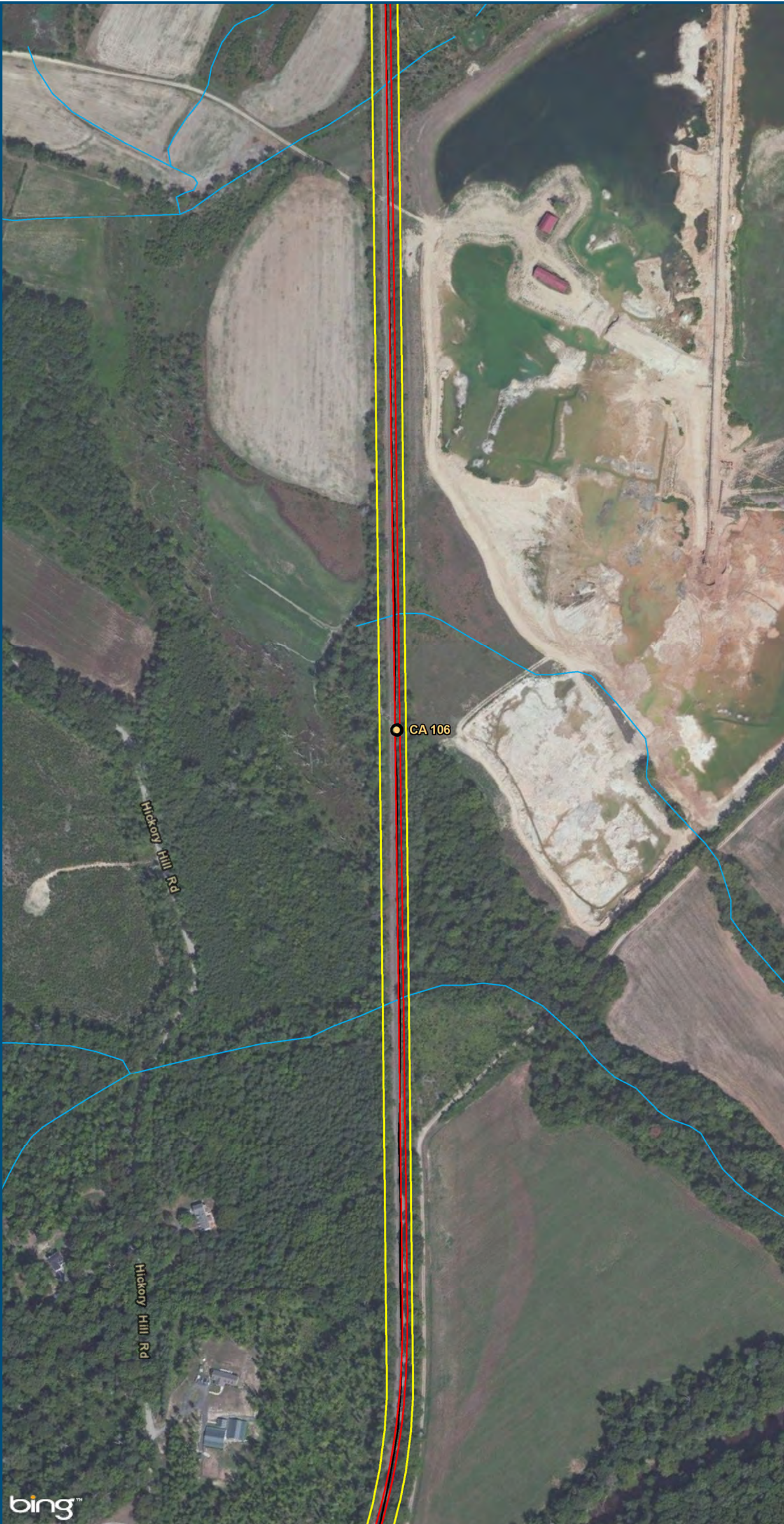


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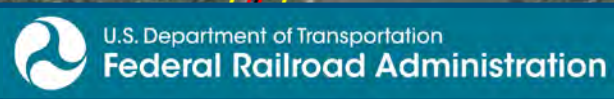


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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

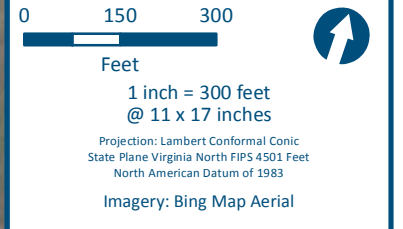
Figure X-61
Richmond Segment
Constrained
Alignment Option



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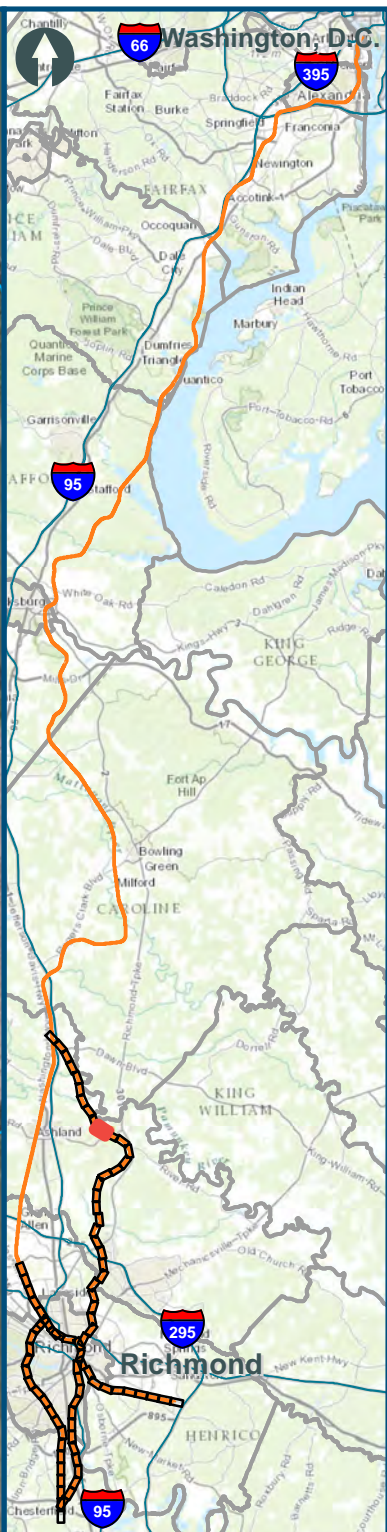
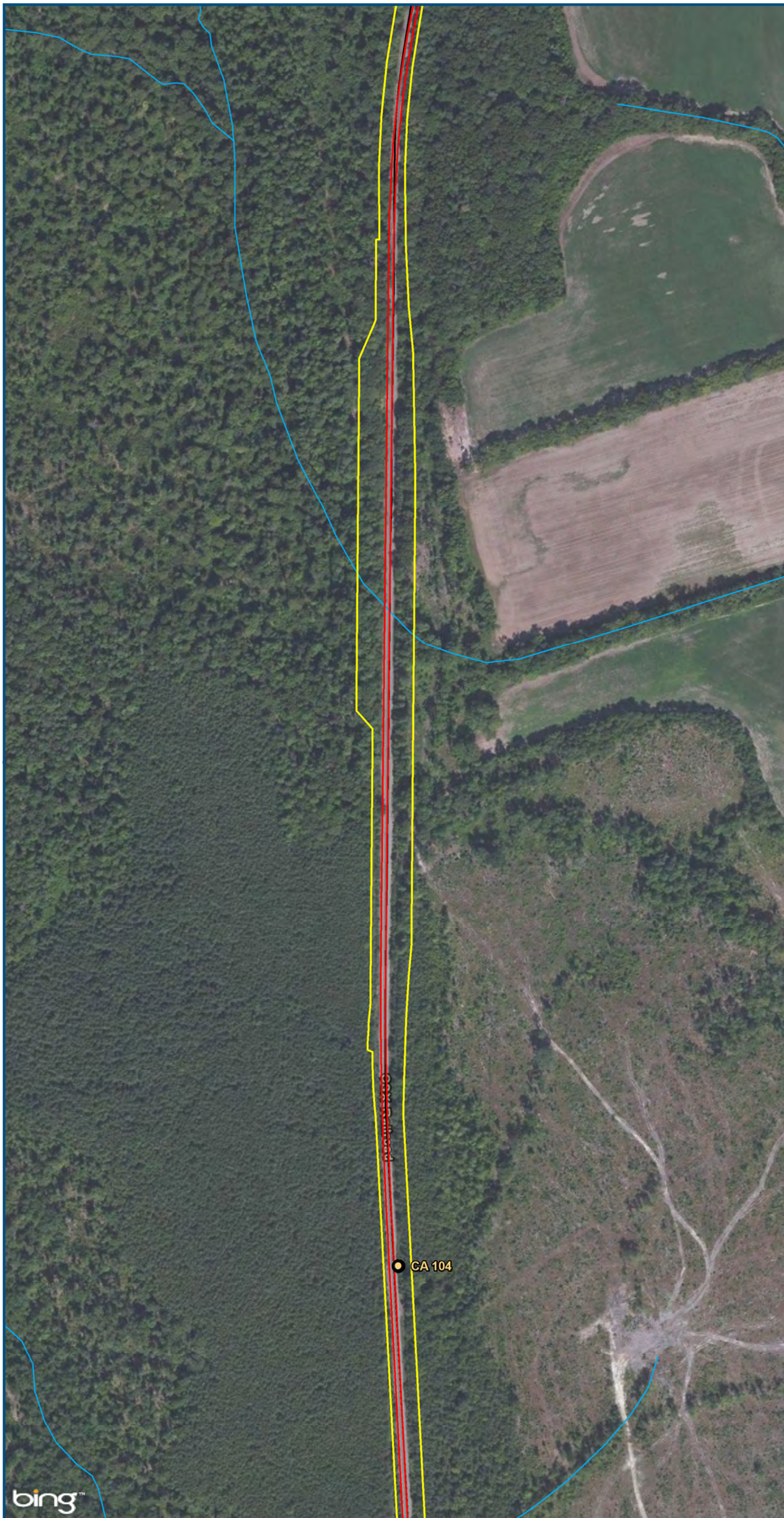
- Legend**
-  CSXT Mileposts
 -  New Track
 -  Existing Track
 -  CSXT Right-of-Way
 -  Streams

Figure X-62
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Chr6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

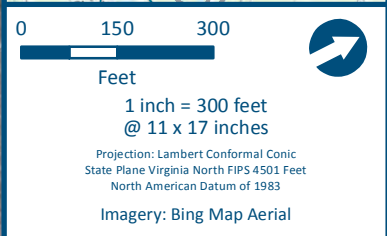
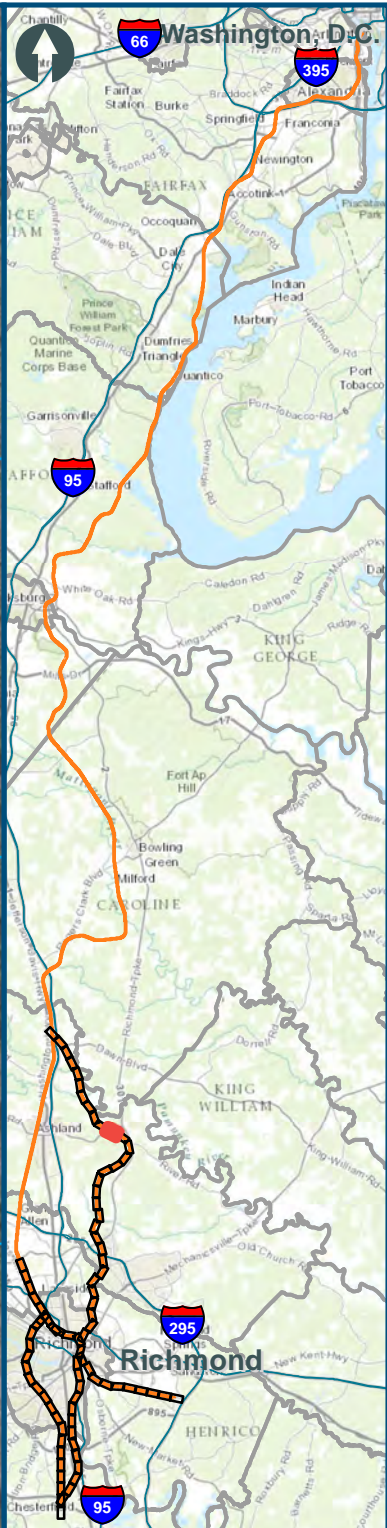
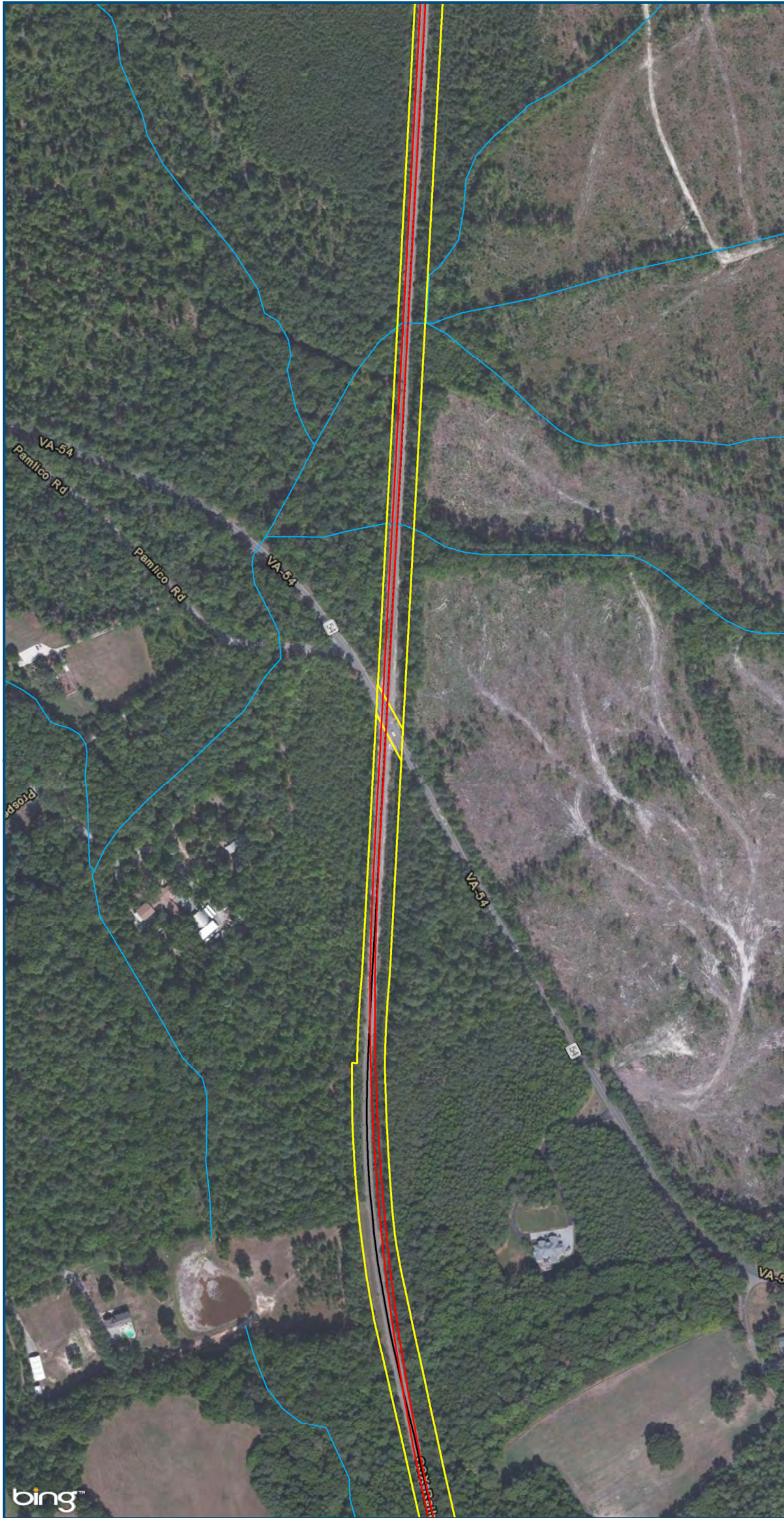


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-63
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015








- Legend**
-  CSXT Mileposts
 -  New Track
 -  Existing Track
 -  CSXT Right-of-Way
 -  Streams

Figure X-64
Richmond Segment
Constrained
Alignment Option

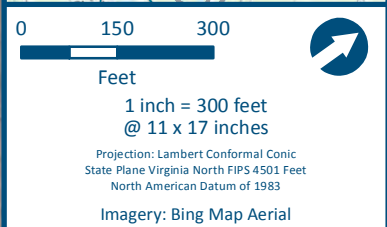
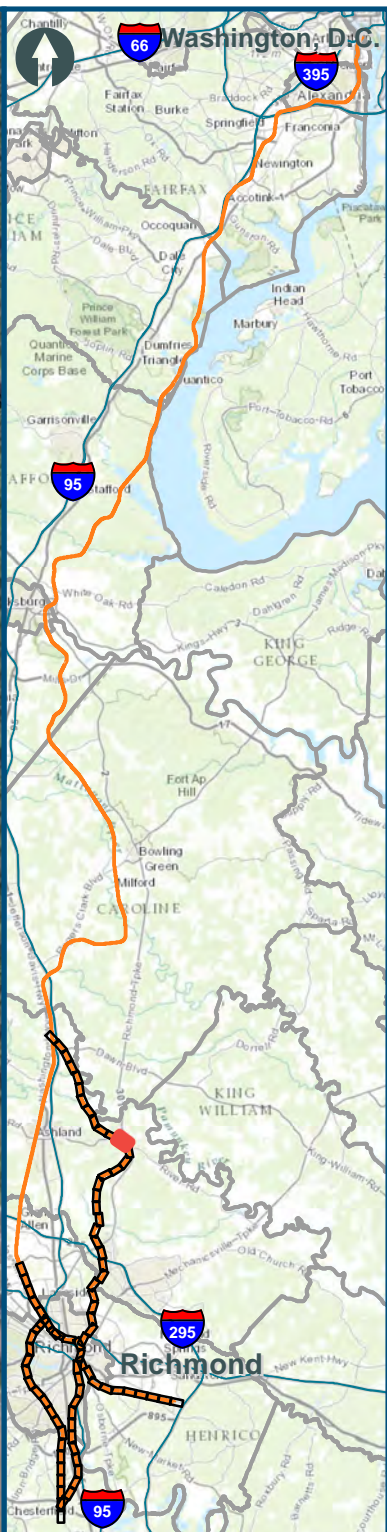
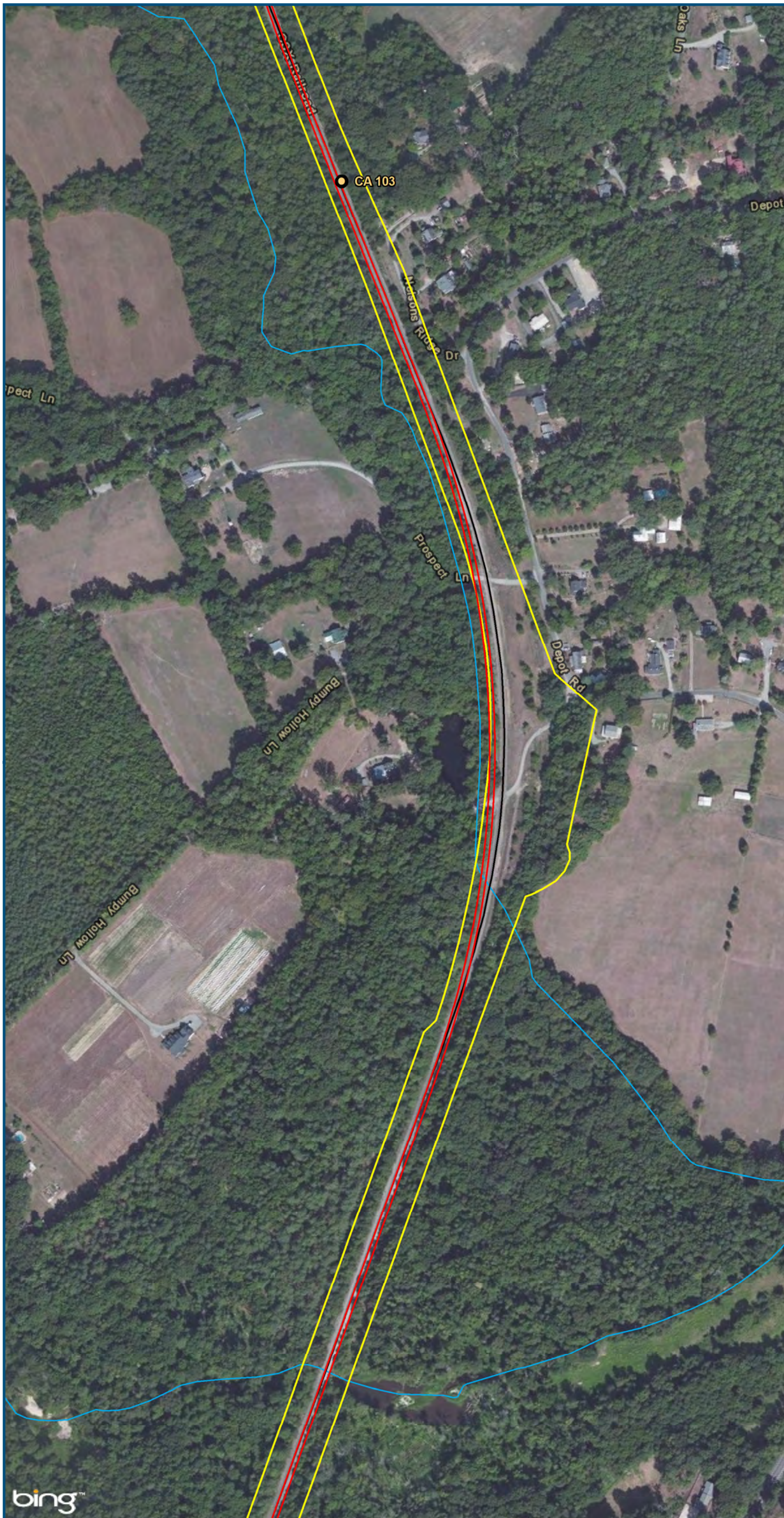


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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-65
Richmond Segment
Constrained
Alignment Option

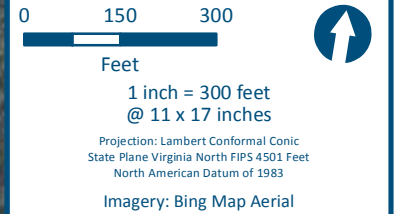
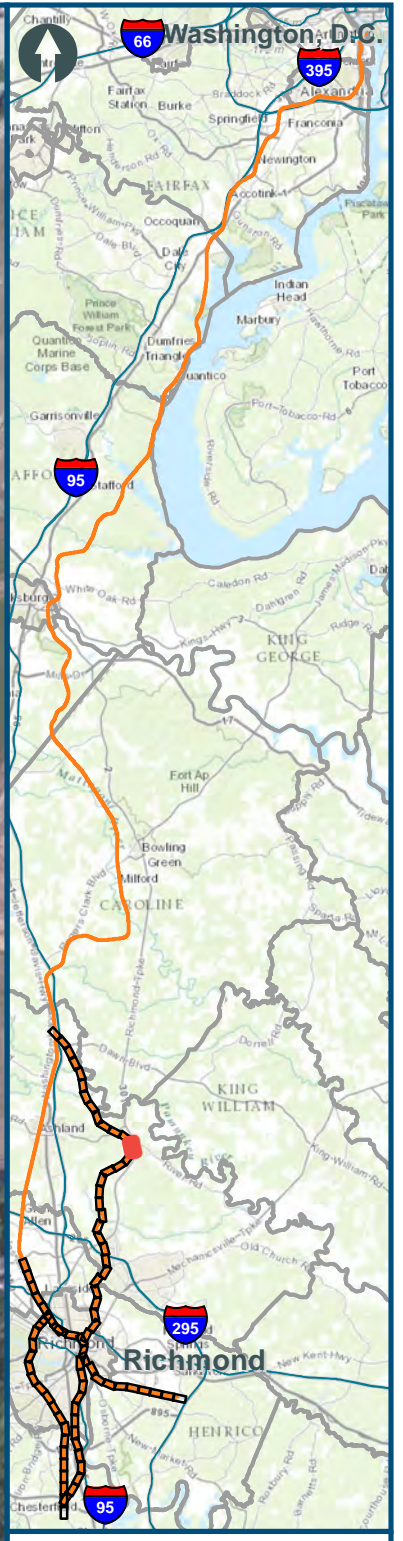
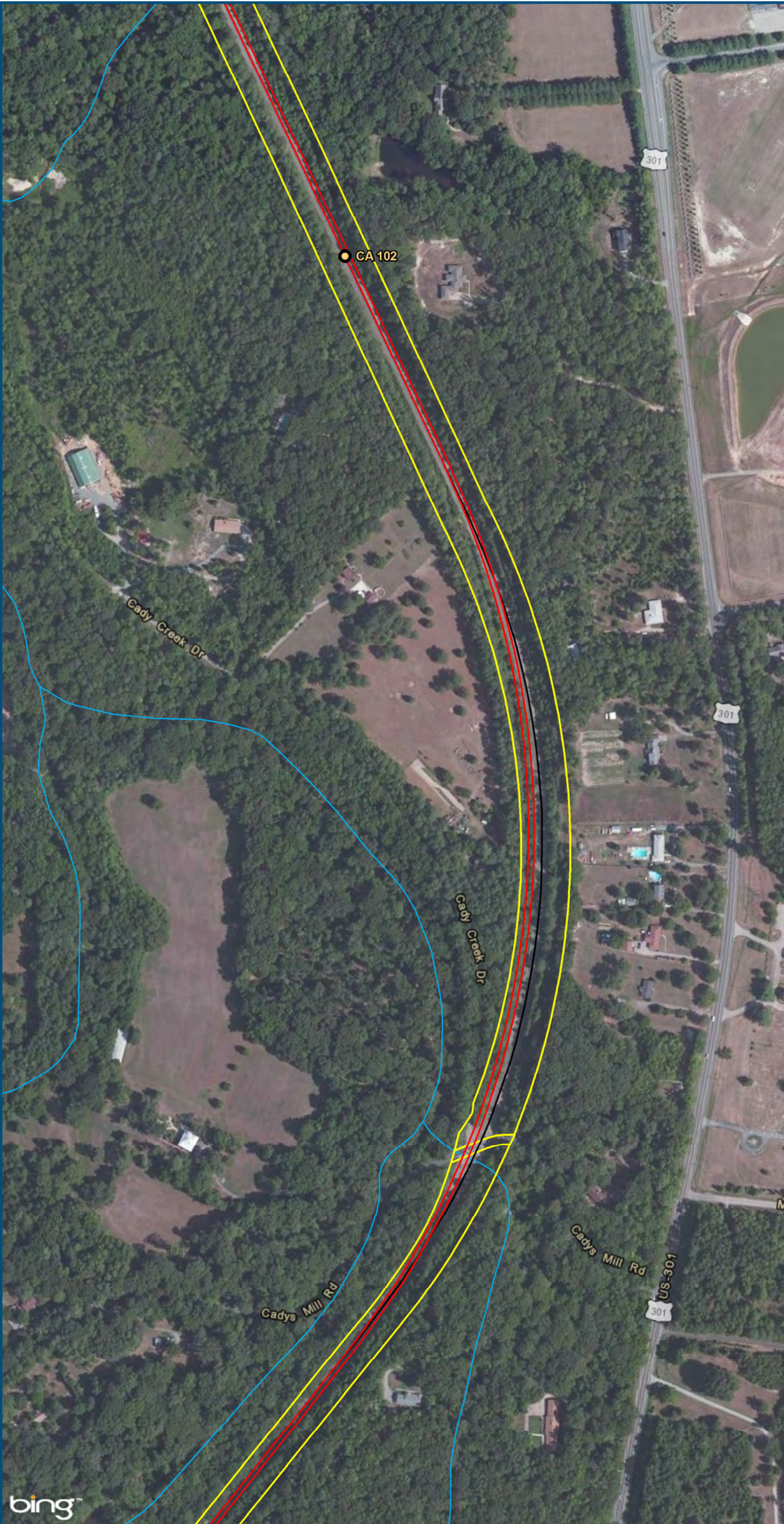


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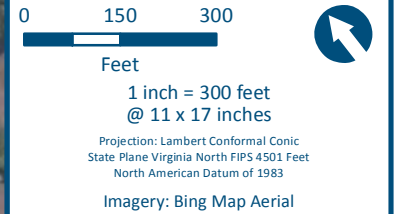
- Legend**
-  CSXT Mileposts
 -  New Track
 -  Existing Track
 -  CSXT Right-of-Way
 -  Streams

Figure X-66
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4A\Dev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015








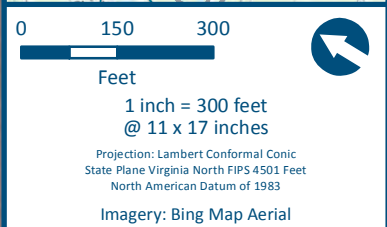
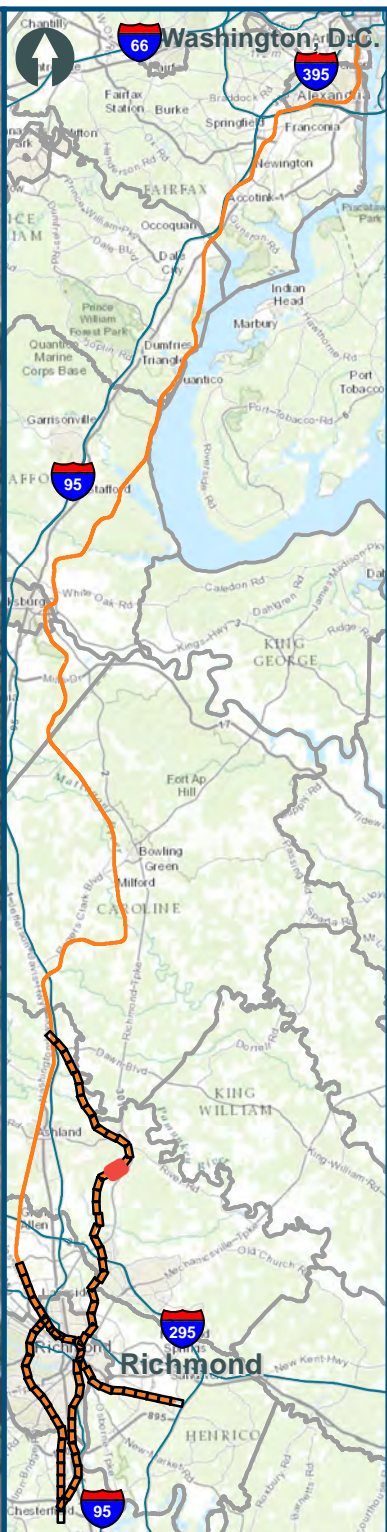
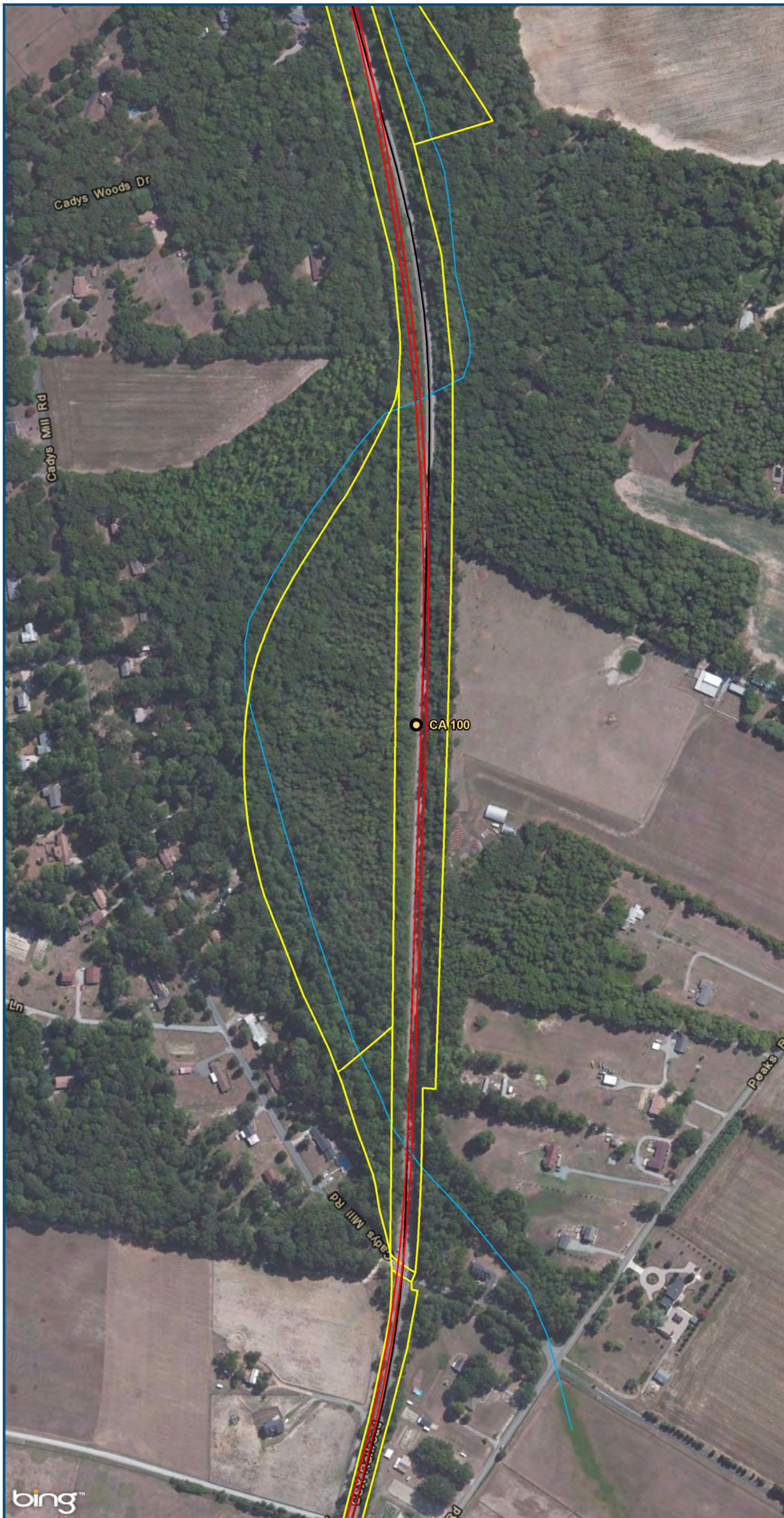
- Legend**
-  CSXT Mileposts
 -  New Track
 -  Existing Track
 -  CSXT Right-of-Way
 -  Streams

Figure X-67
Richmond Segment
Constrained
Alignment Option

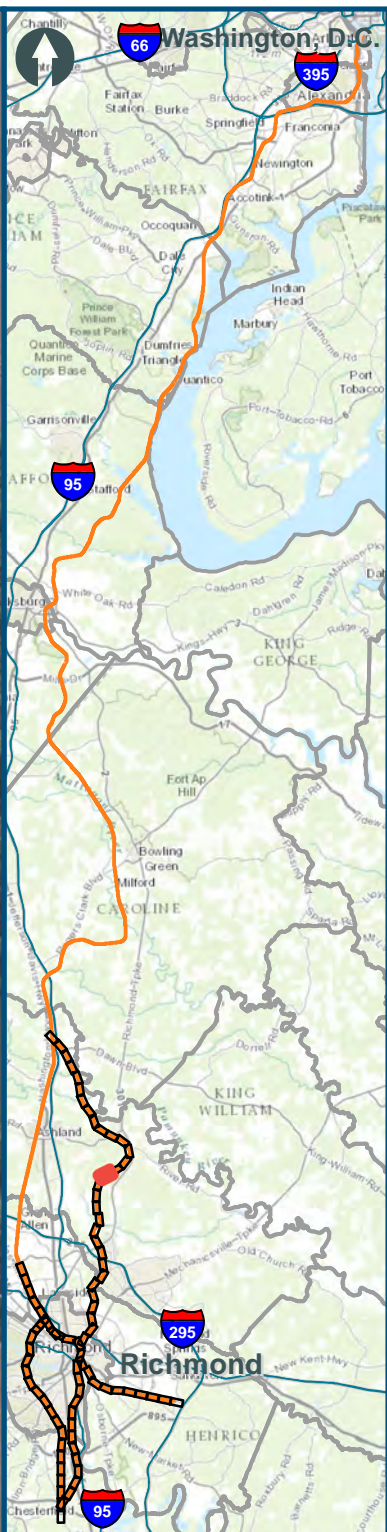
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-68
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Chr6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

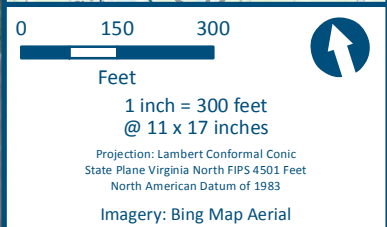
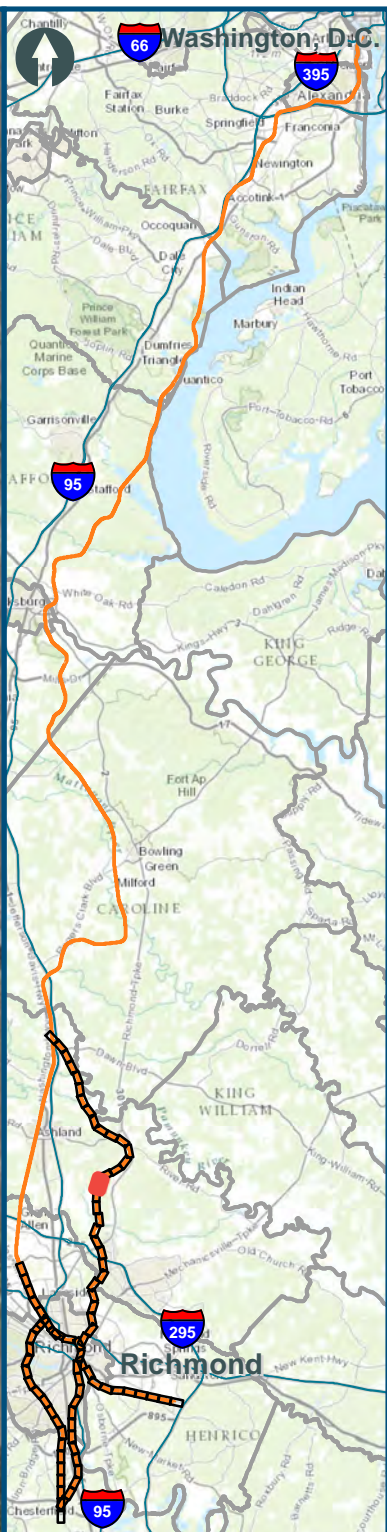
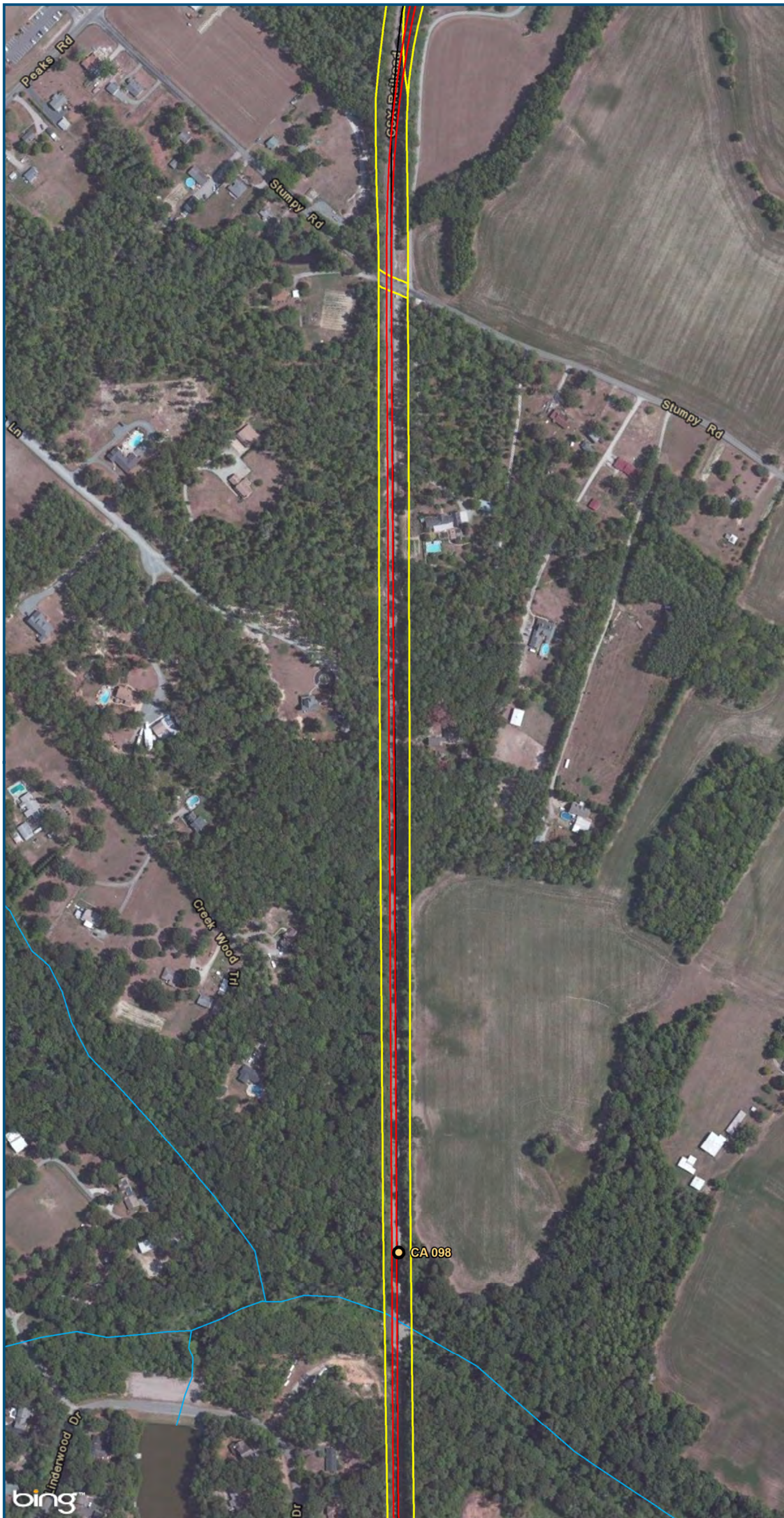


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-69
Richmond Segment
Constrained
Alignment Option

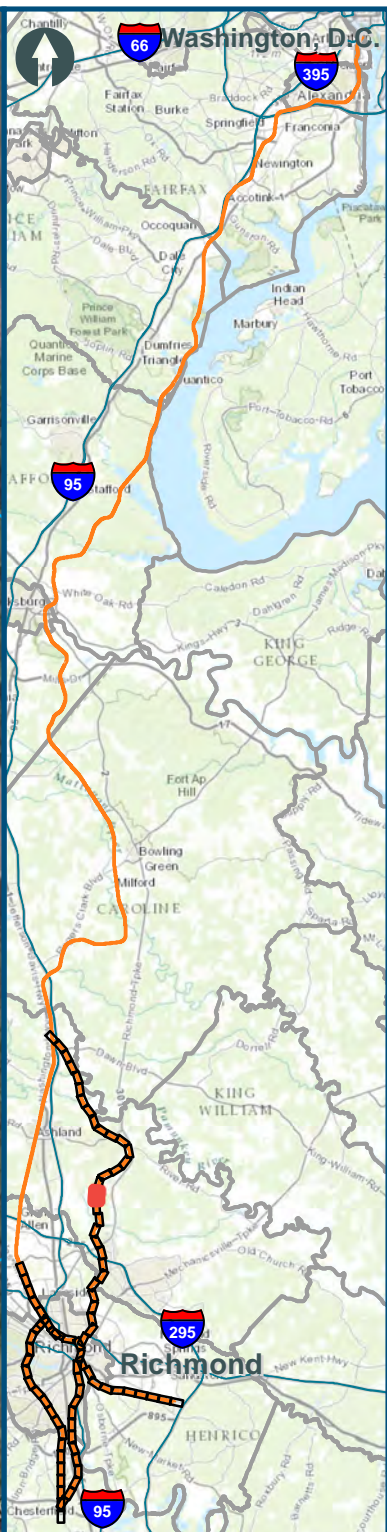
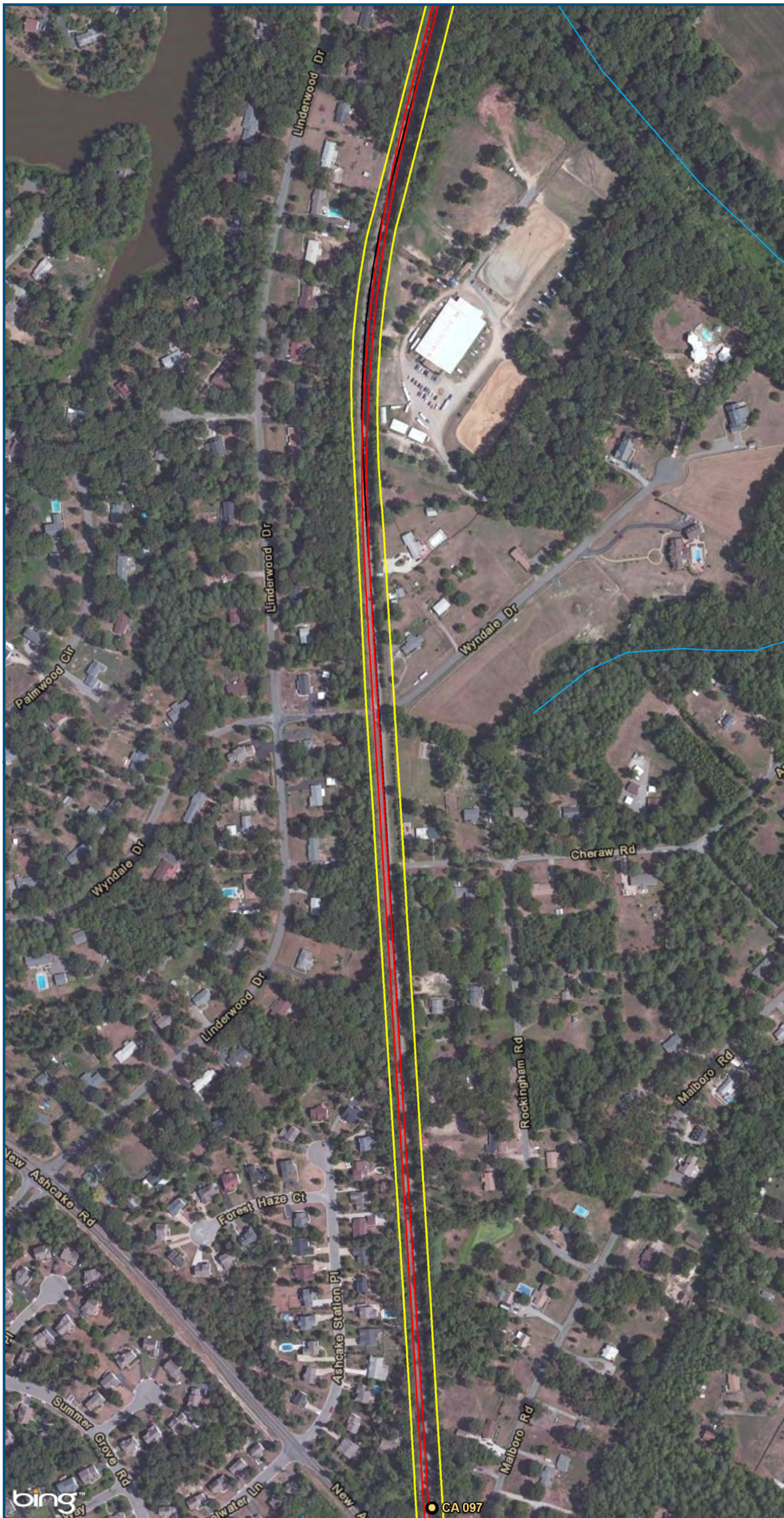
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-70
Richmond Segment
Constrained
Alignment Option

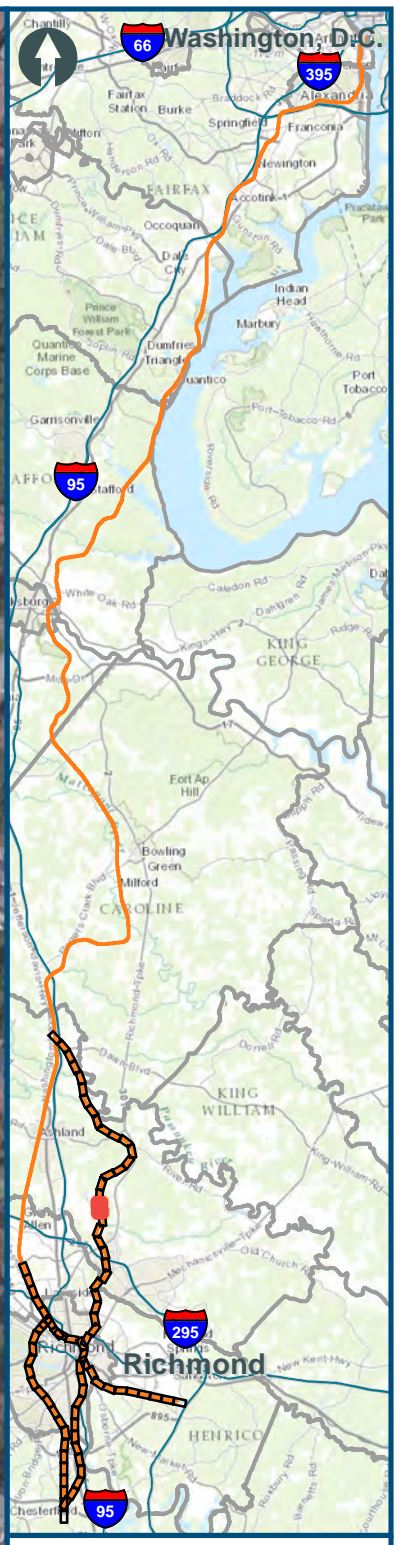
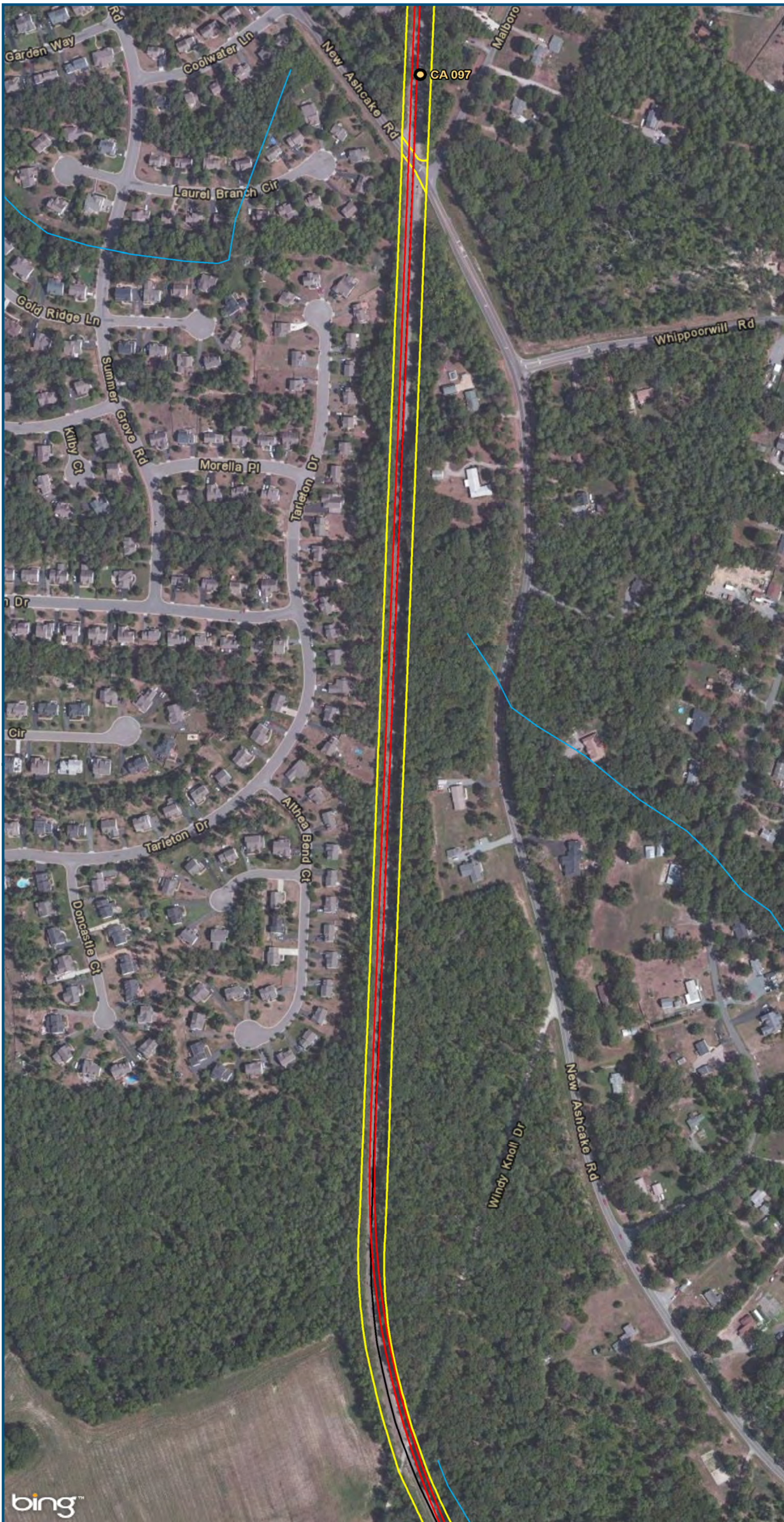
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0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-71
Richmond Segment
Constrained
Alignment Option



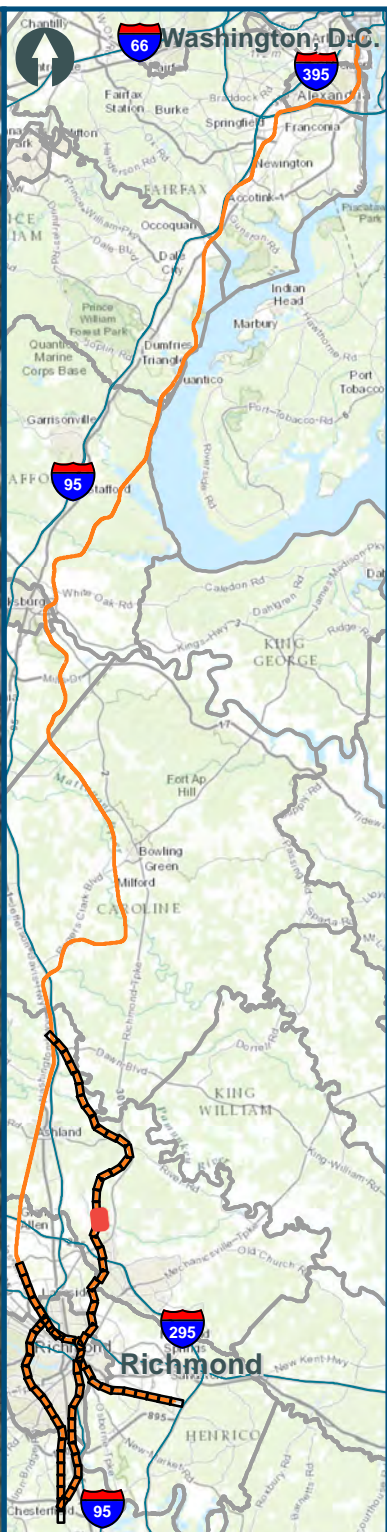
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-72
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VA\Depl\of\Rail\PublicTransportation\0239056_RAPS-4\AI\Dev-Concept\Eng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

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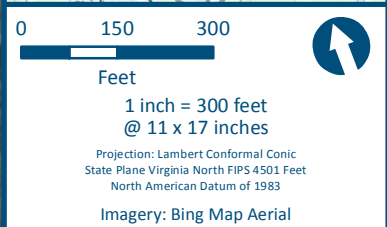
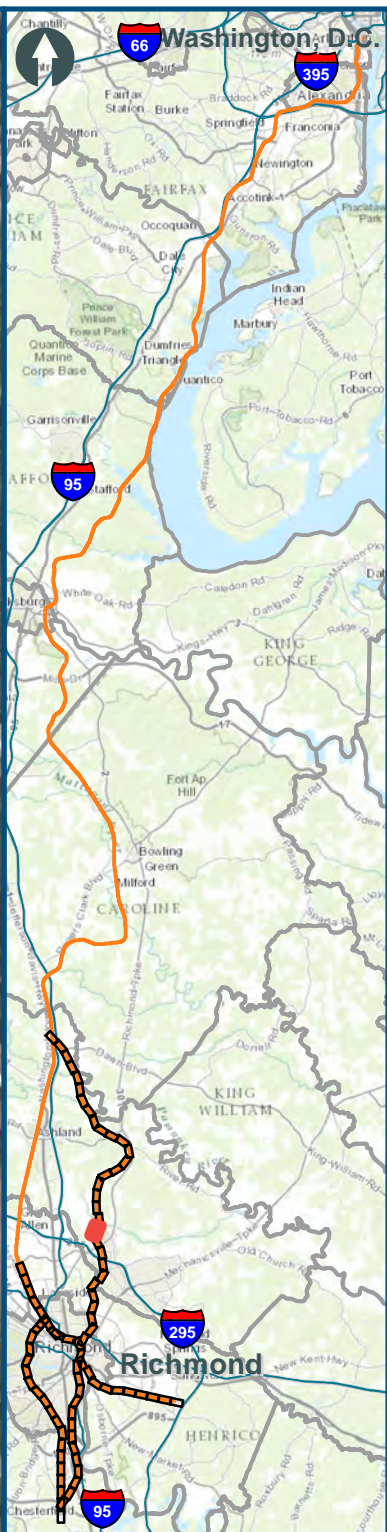


0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-73
Richmond Segment
Constrained
Alignment Option

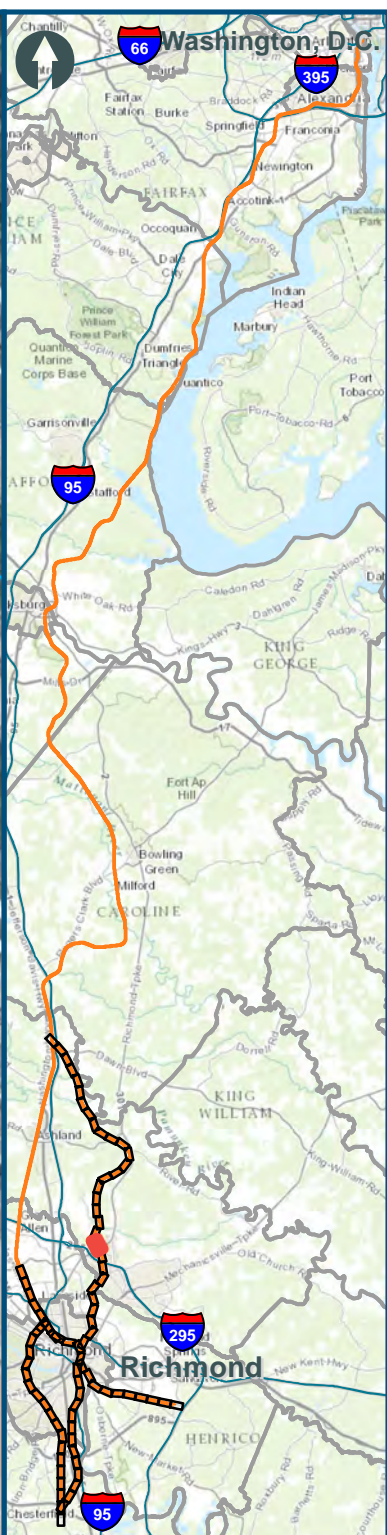
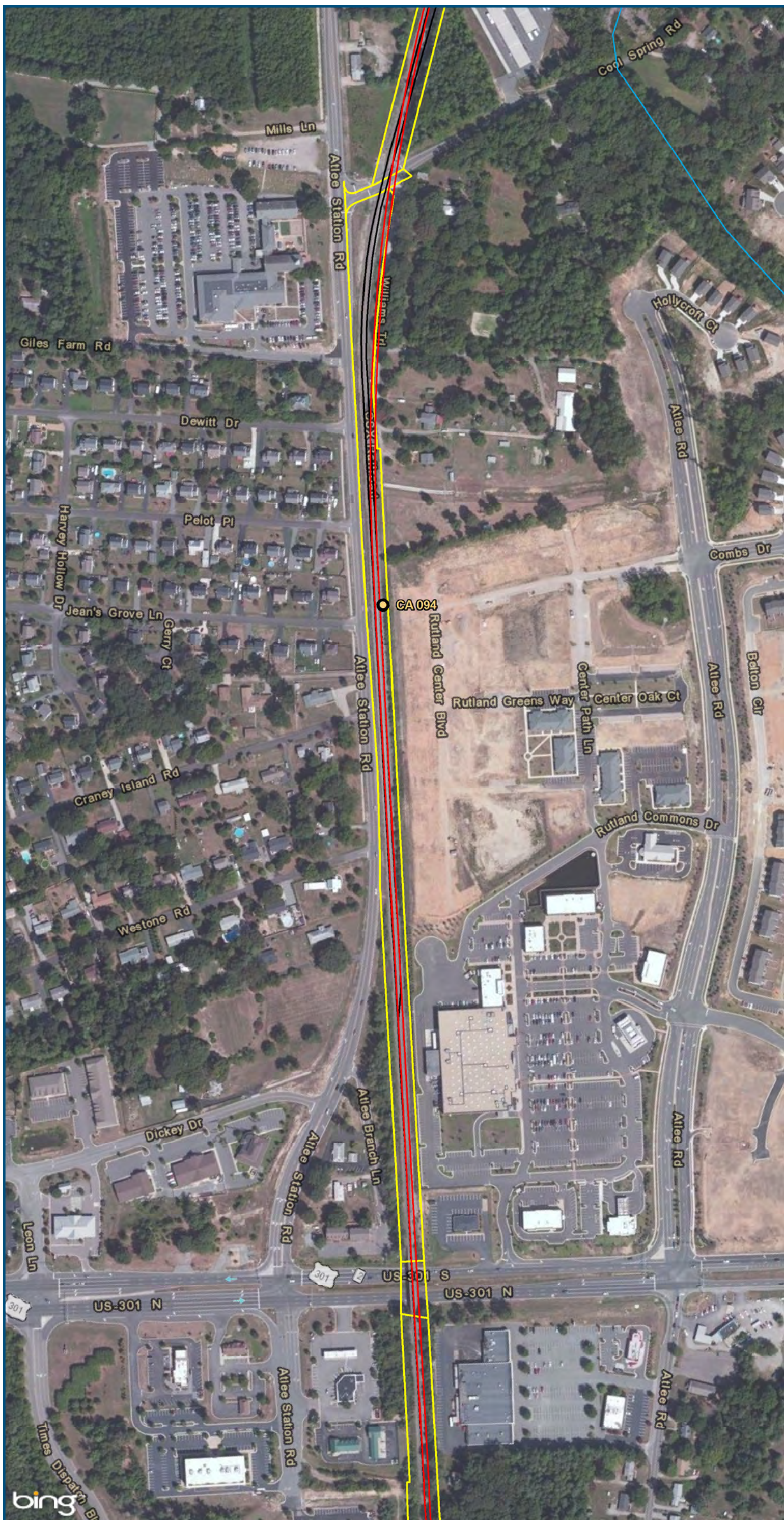
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- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-74
Richmond Segment
Constrained
Alignment Option

\\cslsman\gis_data\GIS\Projects\011545_VA\Depl\of\Rail\Public\Transportation\0239056_RAPS-4\AI\Dev-Concept\Eng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend






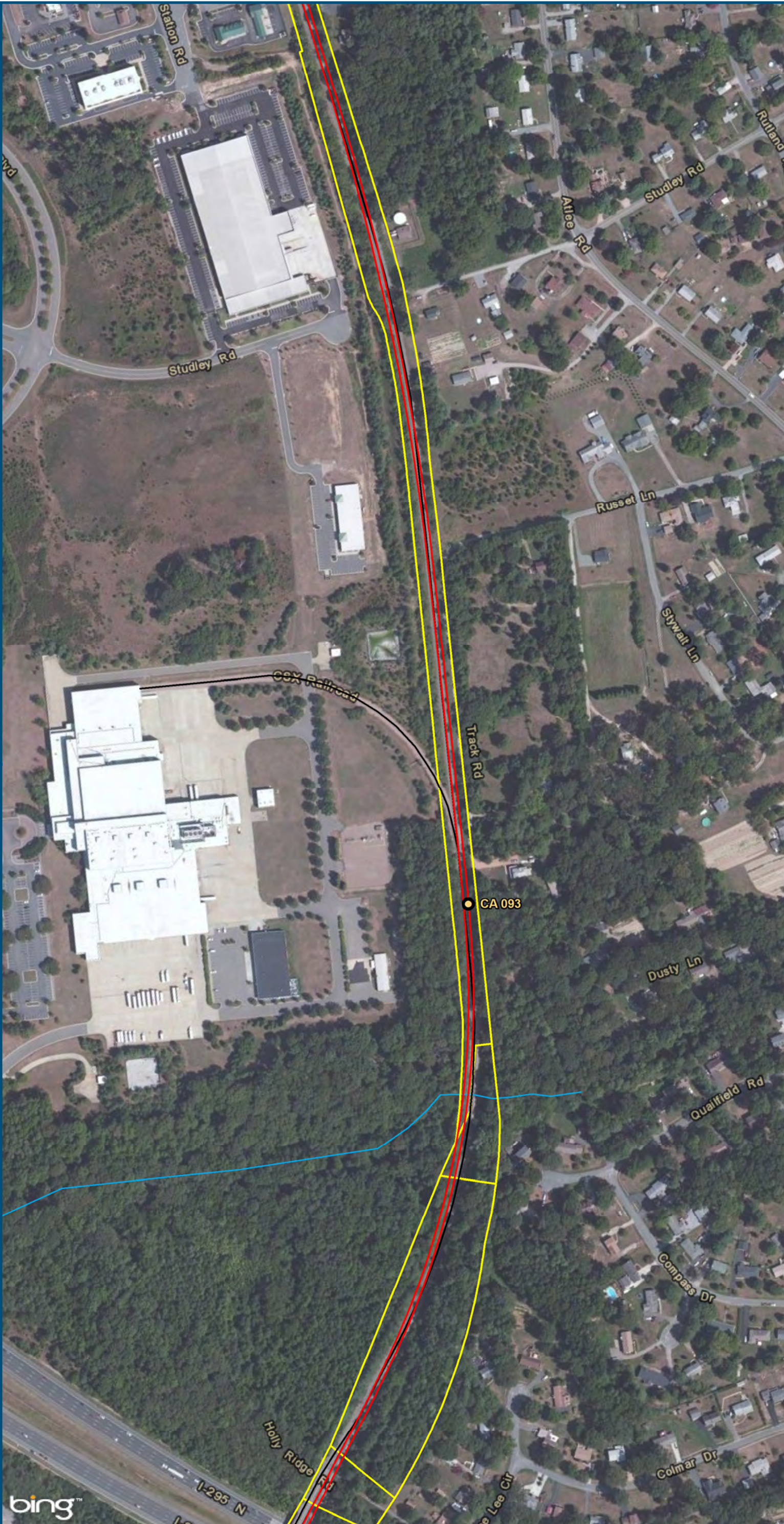
-  CSXT Mileposts
-  New Track
-  Existing Track
-  CSXT Right-of-Way
-  Streams

Figure X-75
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015

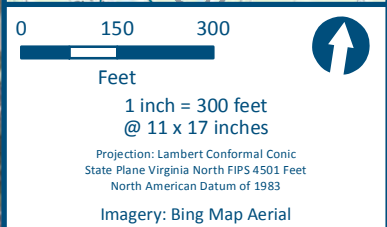
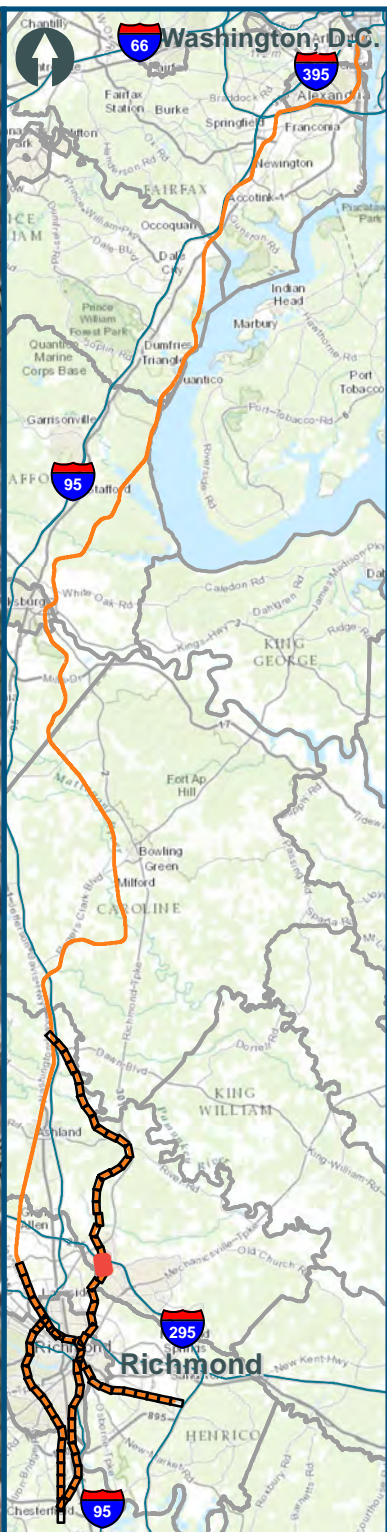
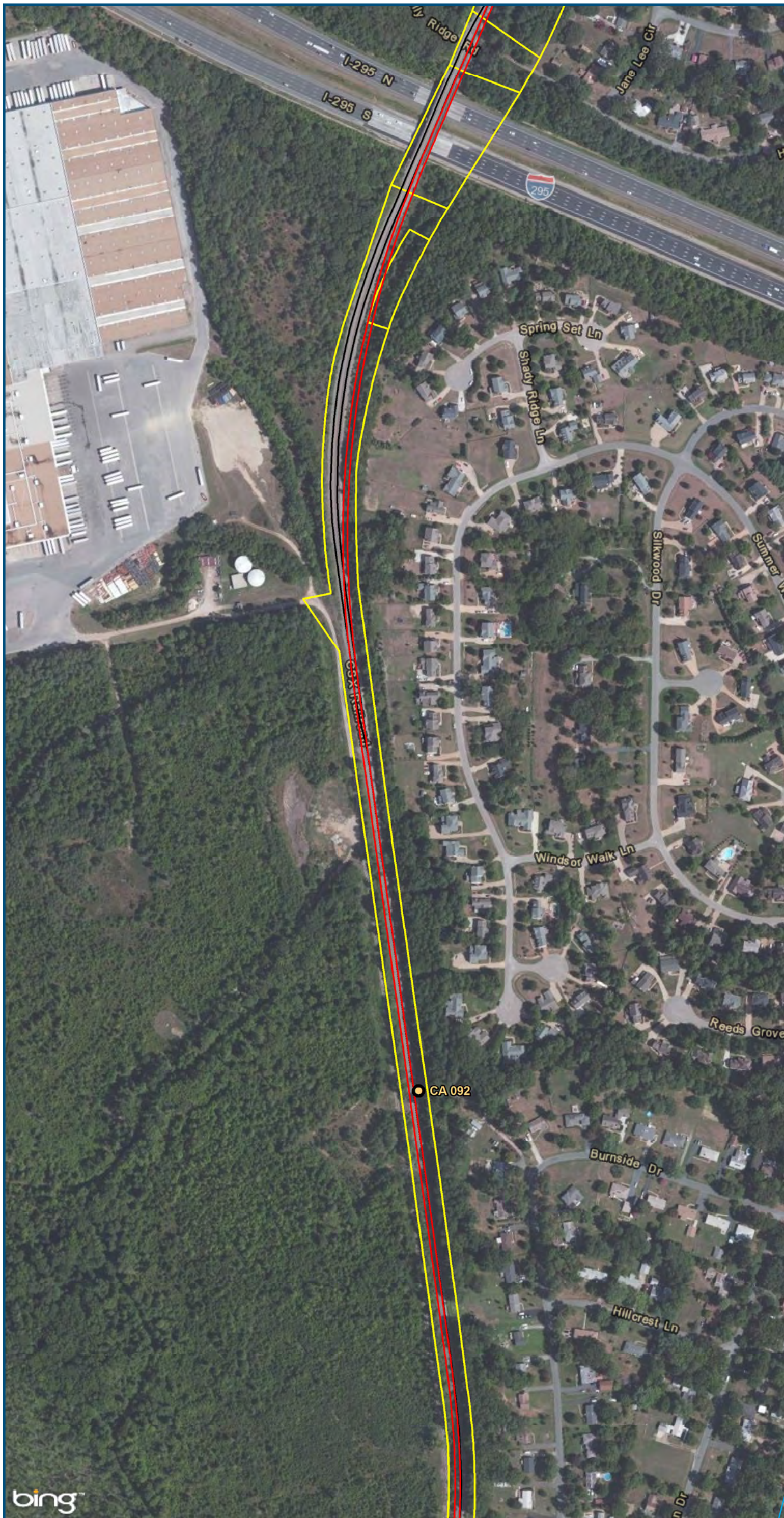


0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-76
Richmond Segment
Constrained
Alignment Option

\\cslmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4\Dev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



Legend






-  CSXT Mileposts
-  New Track
-  Existing Track
-  CSXT Right-of-Way
-  Streams

Figure X-77
Richmond Segment
Constrained
Alignment Option

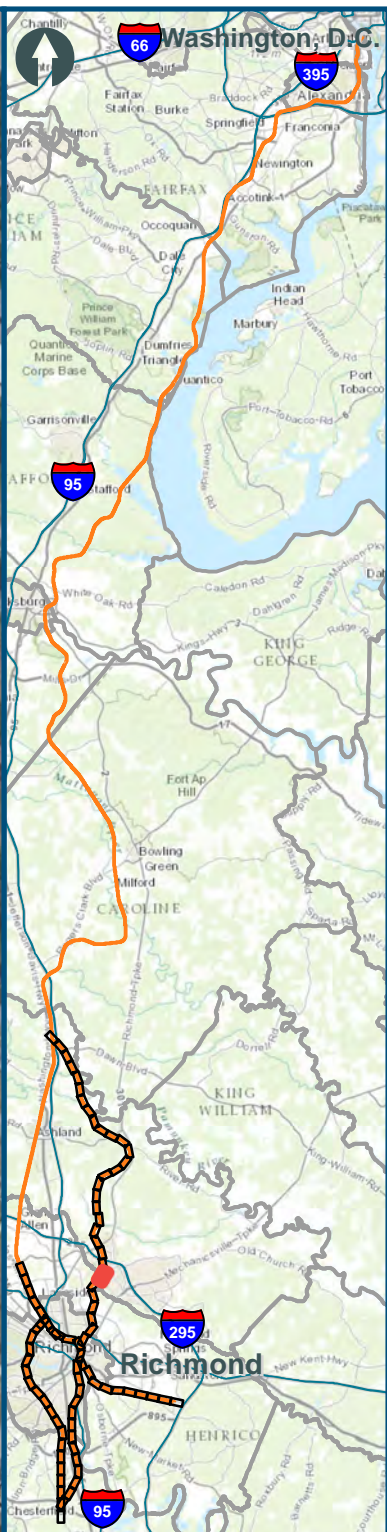
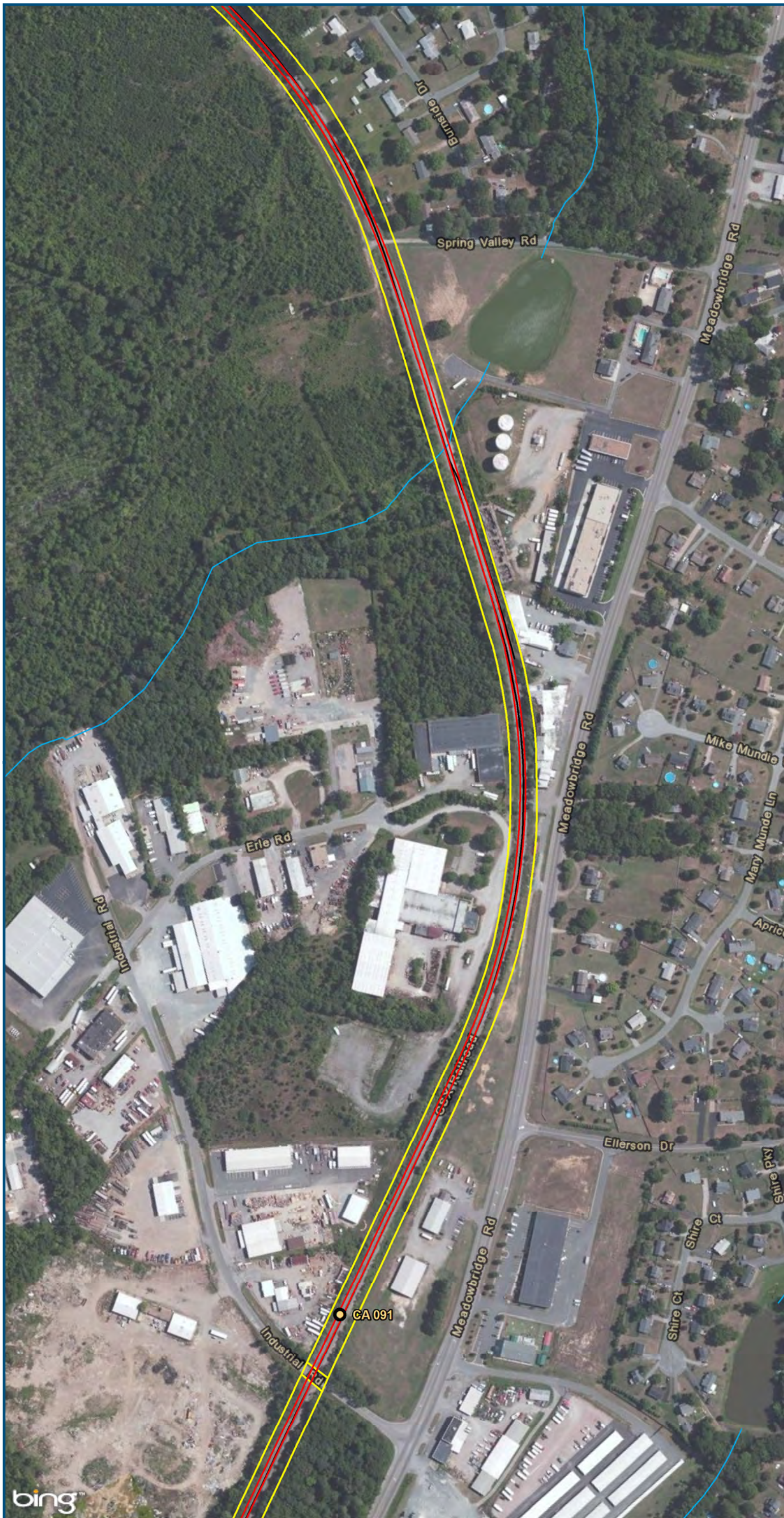


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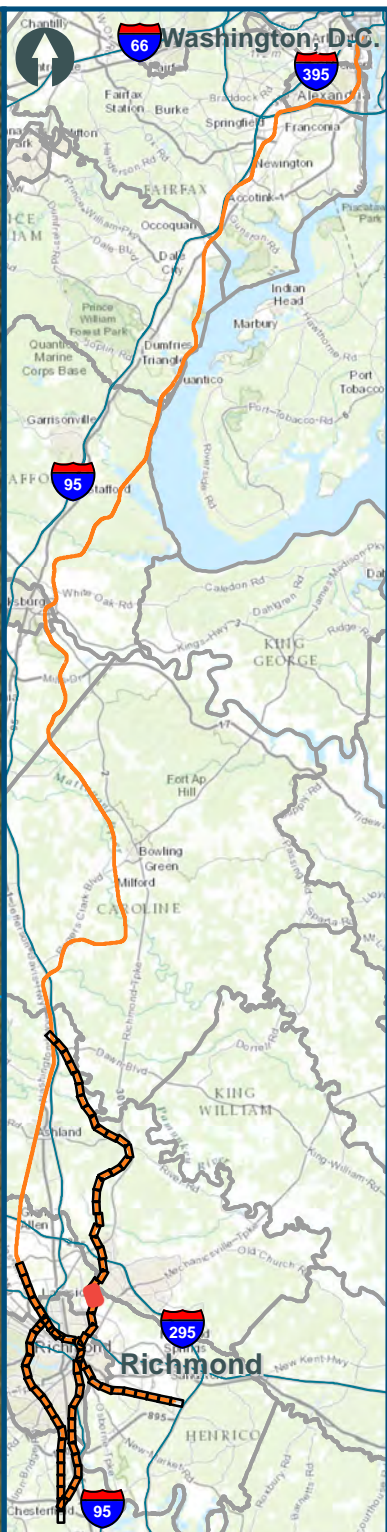
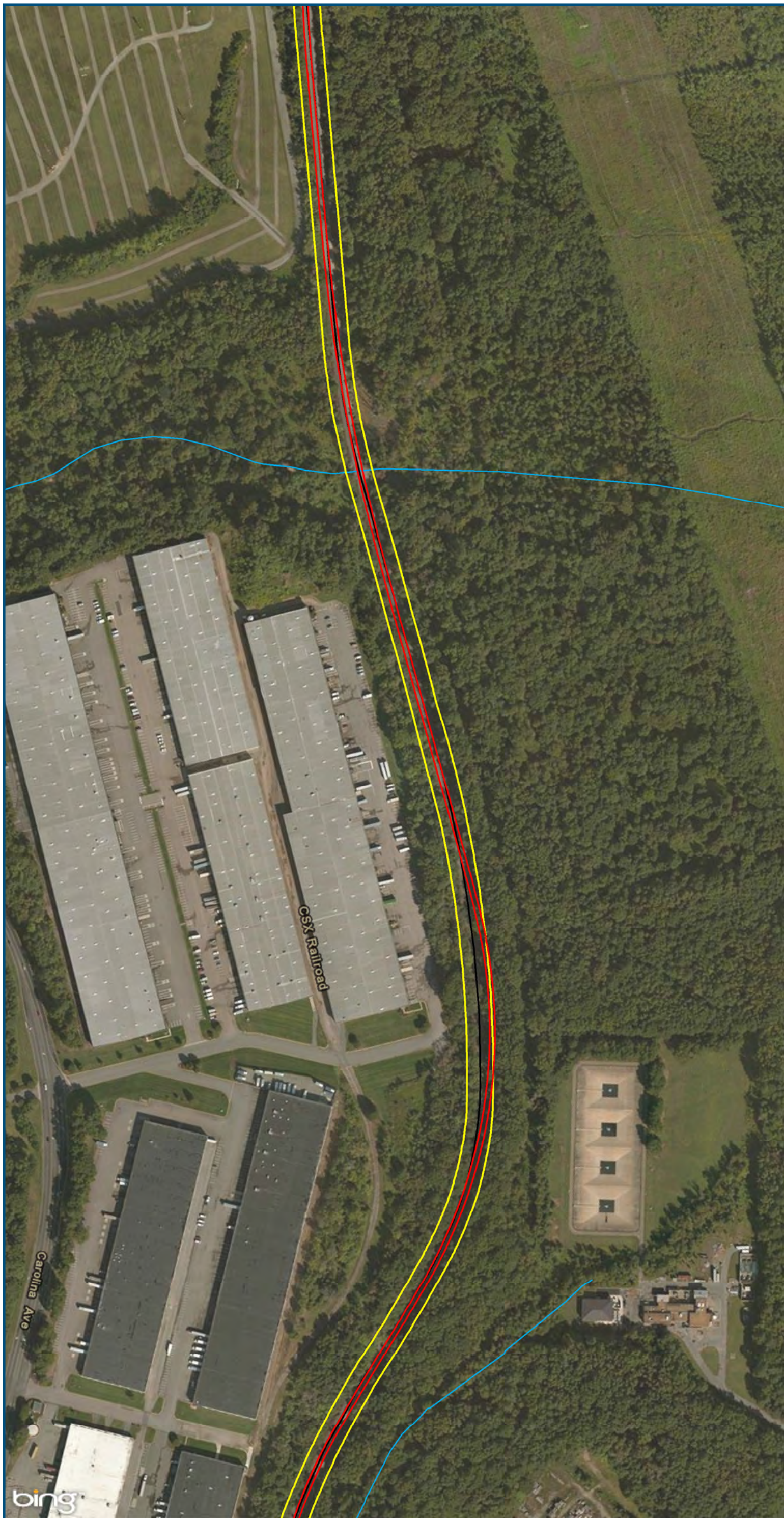


Legend

- CSXT Mileposts
- New Track
- Existing Track
- CSXT Right-of-Way
- Streams

Figure X-78
Richmond Segment
Constrained
Alignment Option

\\cslsmain\gis_data\GIS\Projects\011545_VADepotofRails-PublicTransportation\0239056_RAPS-4\AllDev-ConceptEng\map_docs\mxd\AIT_Tech_Report\DC2RVA_Ch6_Appendices_RIC_Constrained_Alignments_11x17.mxd | Last Updated: 12.08.2015



0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

Legend






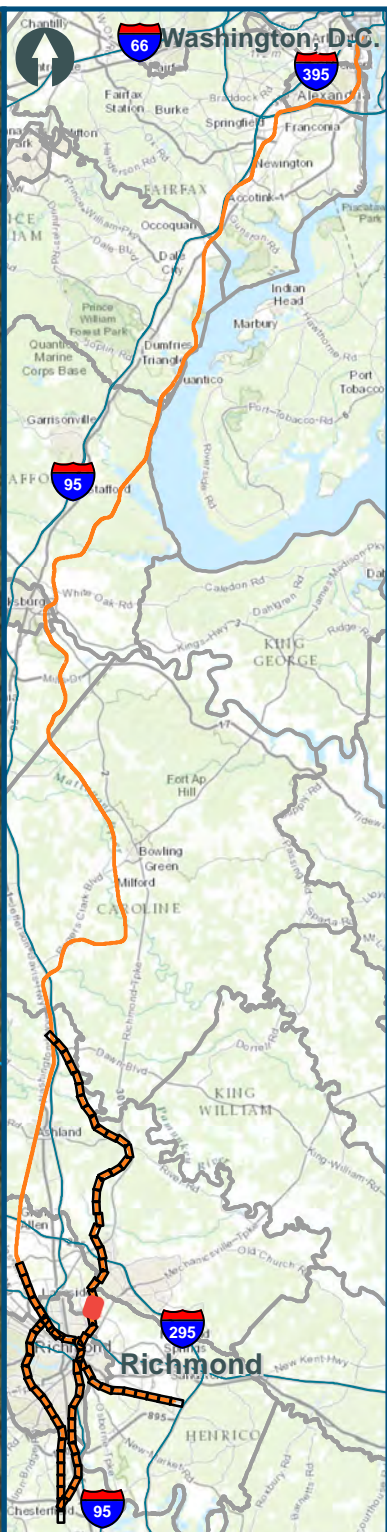
-  CSXT Mileposts
-  New Track
-  Existing Track
-  CSXT Right-of-Way
-  Streams

Figure X-80
Richmond Segment
Constrained
Alignment Option

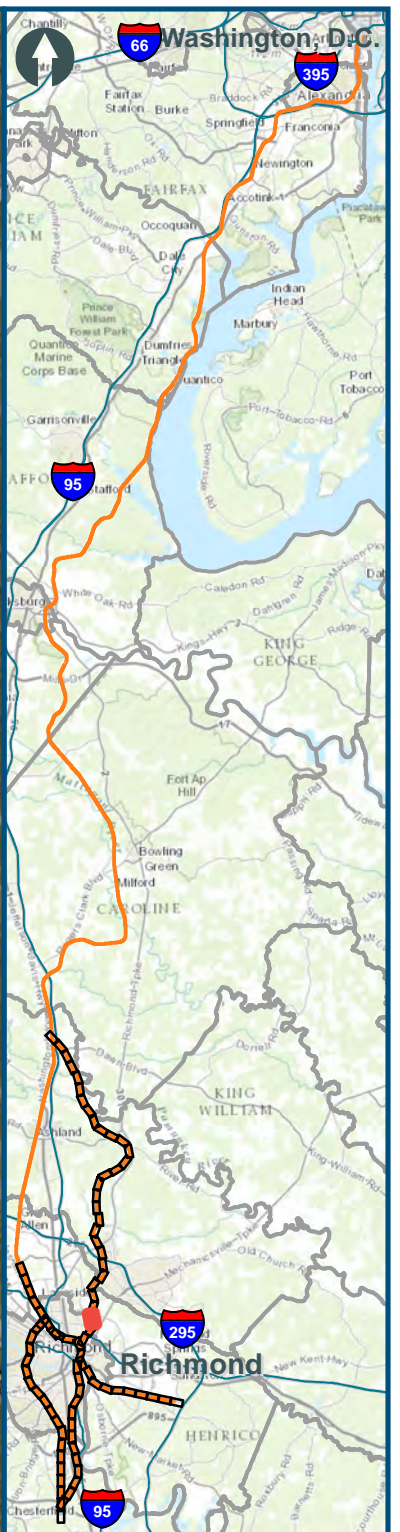
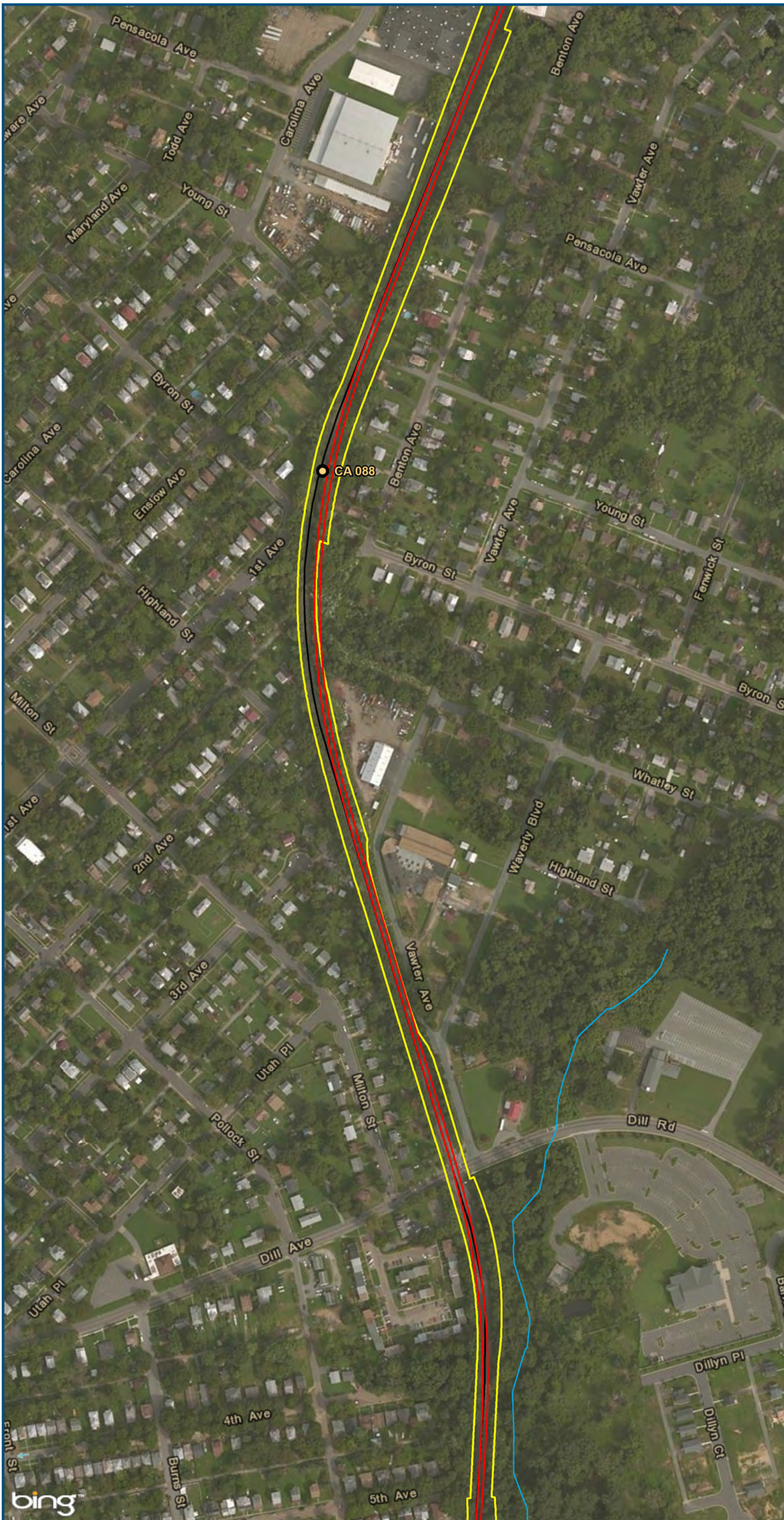
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0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-81
Richmond Segment
Constrained
Alignment Option



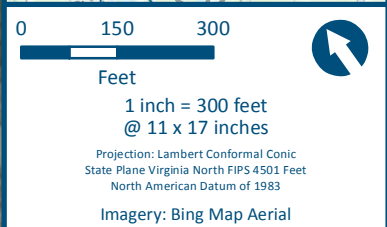
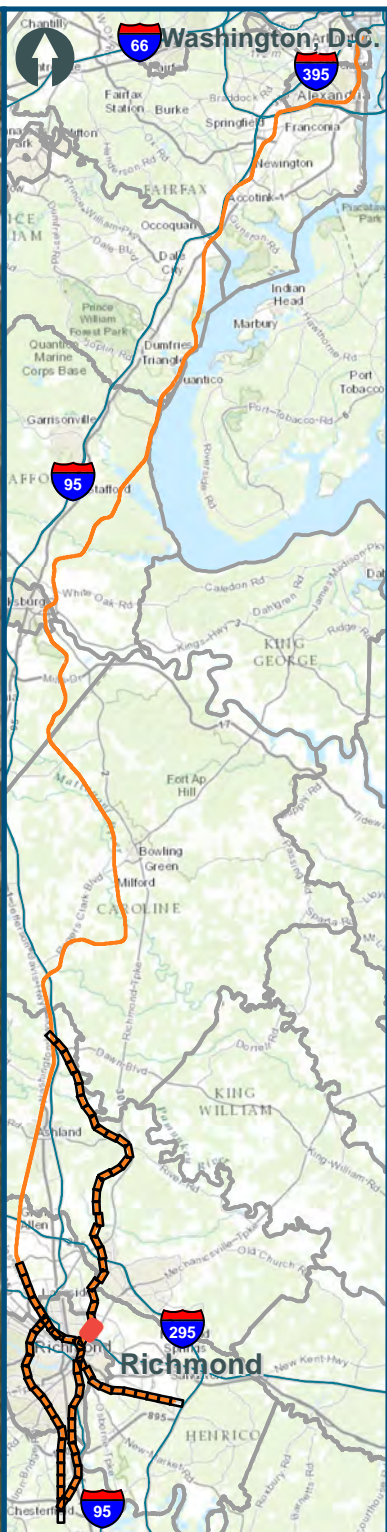
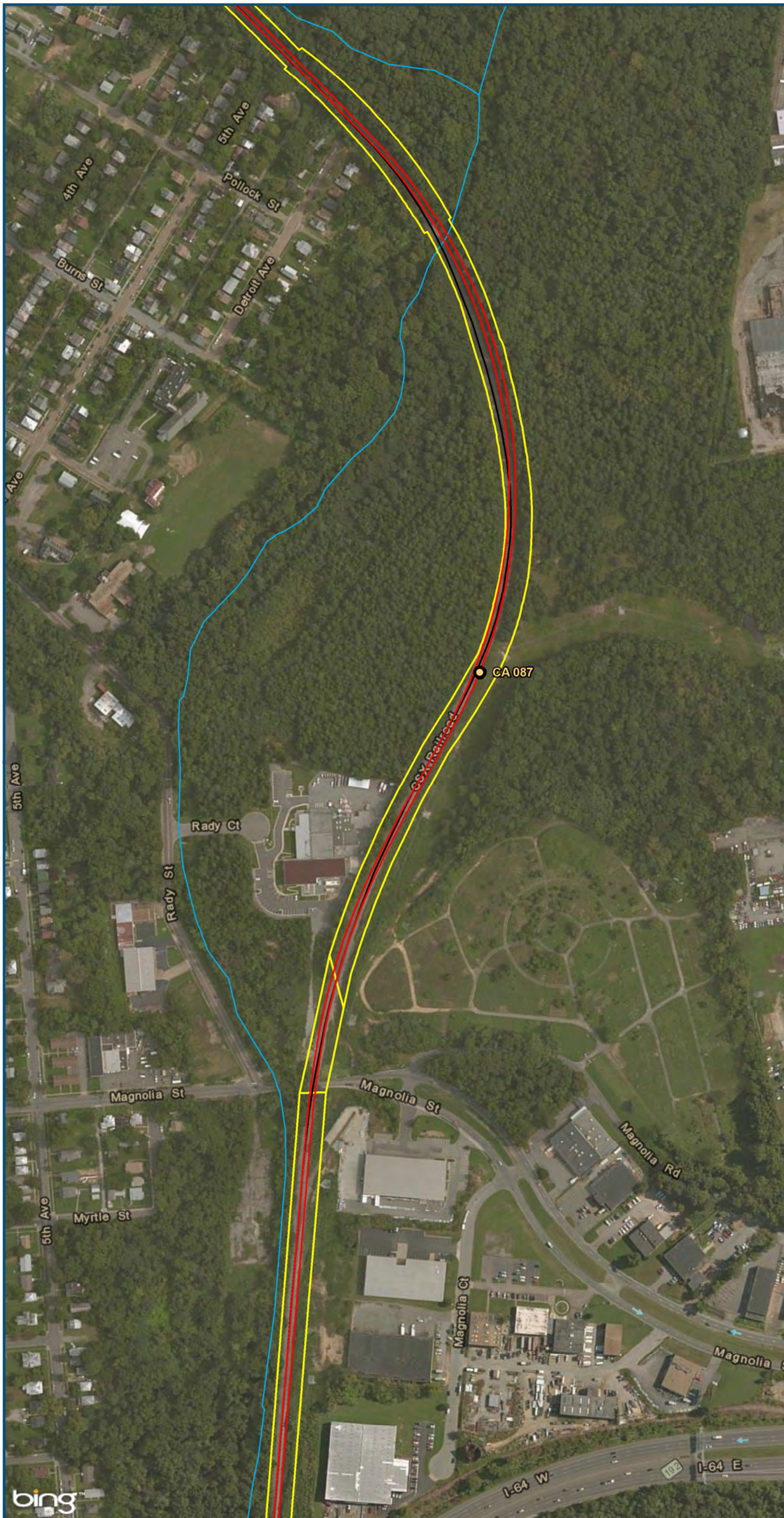
0 150 300
 Feet
 1 inch = 300 feet
 @ 11 x 17 inches
 Projection: Lambert Conformal Conic
 State Plane Virginia North FIPS 4501 Feet
 North American Datum of 1983
 Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-82
Richmond Segment
Constrained
Alignment Option

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Legend






-  CSXT Mileposts
-  New Track
-  Existing Track
-  CSXT Right-of-Way
-  Streams

Figure X-83
Richmond Segment
Constrained
Alignment Option

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0 150 300
Feet
1 inch = 300 feet
@ 11 x 17 inches
Projection: Lambert Conformal Conic
State Plane Virginia North FIPS 4501 Feet
North American Datum of 1983
Imagery: Bing Map Aerial

- Legend**
- CSXT Mileposts
 - New Track
 - Existing Track
 - CSXT Right-of-Way
 - Streams

Figure X-84
Richmond Segment
Constrained
Alignment Option