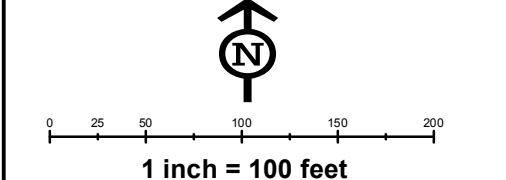
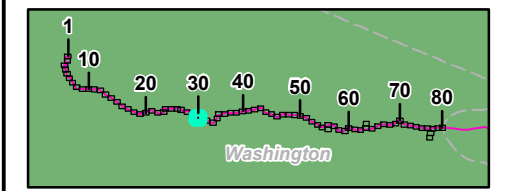




Stream S12, Intermittent
 UNT to Little Chartiers Creek
 Chapter 93: Drains to HQ-WWF
 PAFBC: Drains to ATW, STS
 Coordinates: 40.2331, -80.1634
 Stream Impact: 561ft² E&S Sheet: ES-1.24
 Perm. Floodway Impact: 0.130 acres
 Temp. Floodway Impact: 0.051 acres
 Crossing Type: Dry Crossing
 OHW Width: 11 Permit: Individual

- ### Legend
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

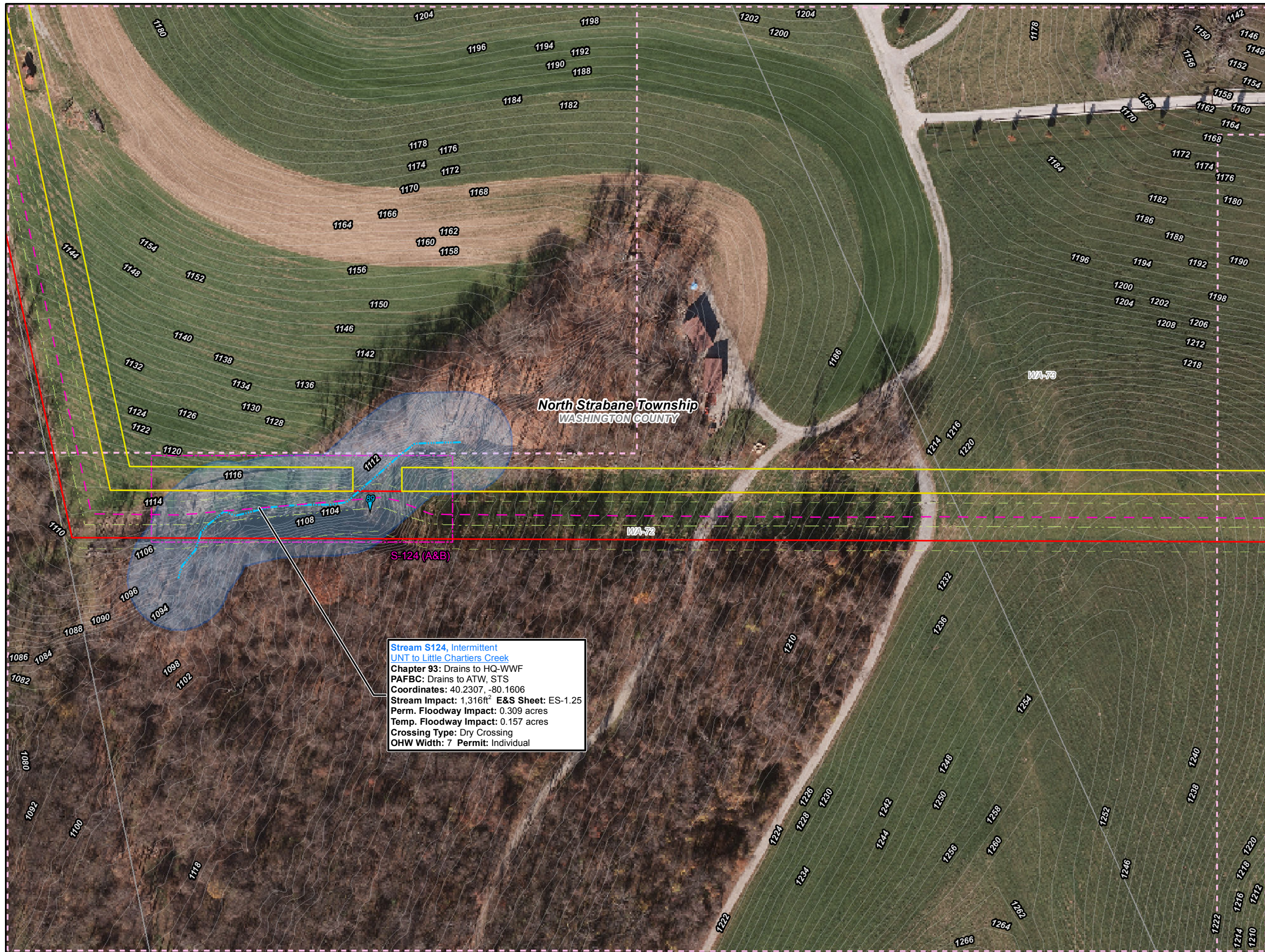


**Site Plan for the Sunoco
 Pennsylvania Pipeline Project,
 Washington County, PA.
 Sheet 31 of 80**

Prepared By: TETRA TECH	Date: 02/2017
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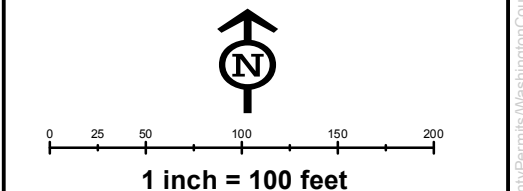
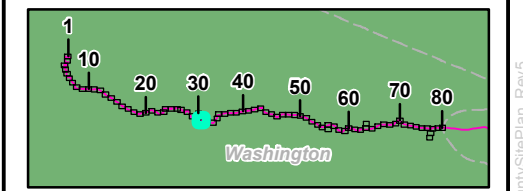
Base Map: SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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Stream S124, Intermittent
 UNT to Little Chartiers Creek
 Chapter 93: Drains to HQ-WWF
 PAFBC: Drains to ATW, STS
 Coordinates: 40.2307, -80.1606
 Stream Impact: 1,316ft² E&S Sheet: ES-1.25
 Perm. Floodway Impact: 0.309 acres
 Temp. Floodway Impact: 0.157 acres
 Crossing Type: Dry Crossing
 OHW Width: 7 Permit: Individual

- ### Legend
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

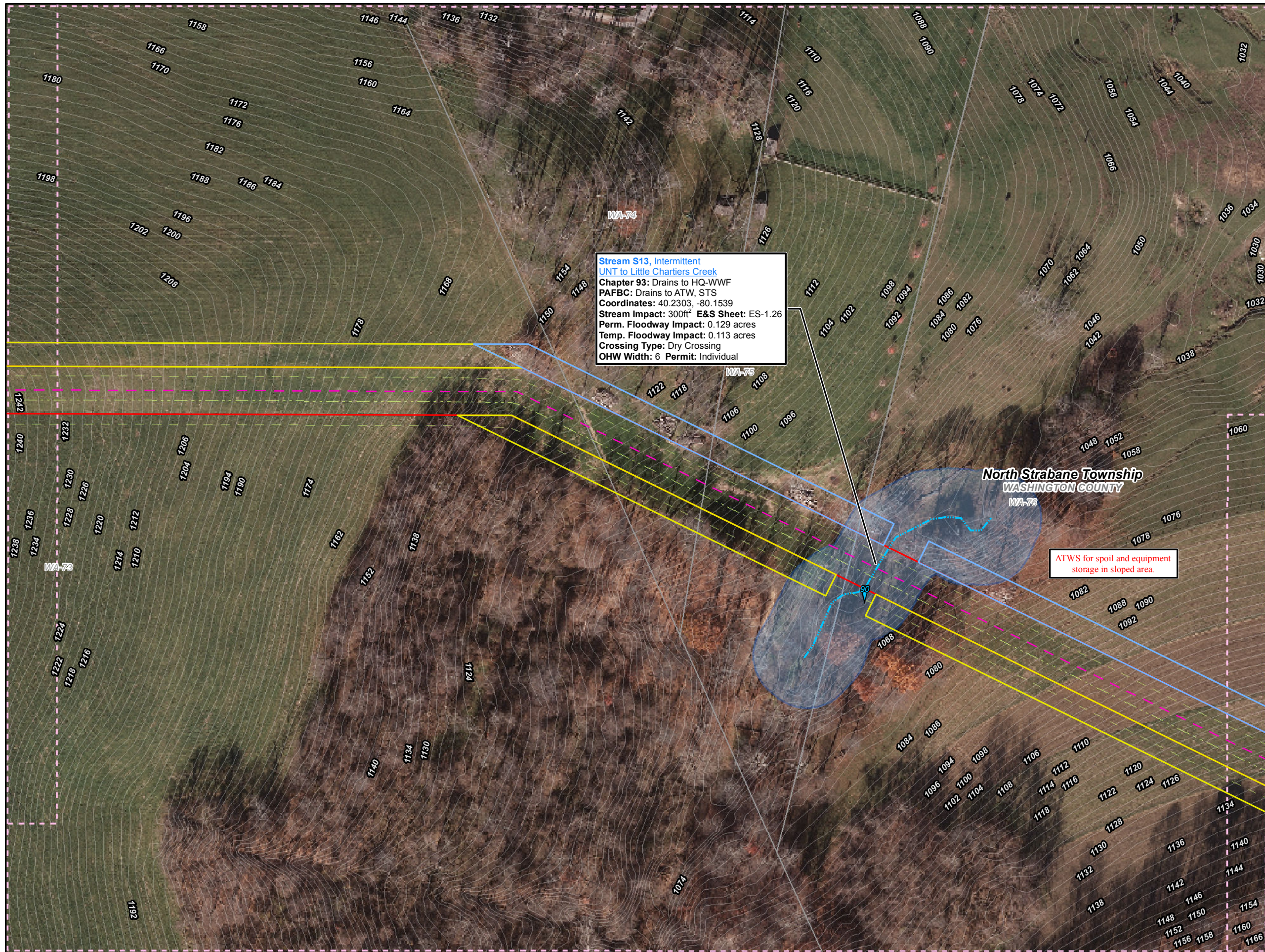


Site Plan for the Sunoco Pennsylvania Pipeline Project, Washington County, PA.
 Sheet 32 of 80

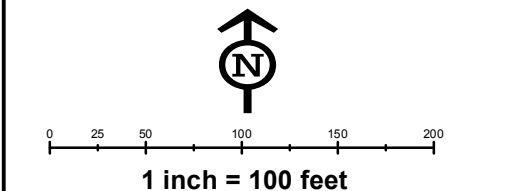
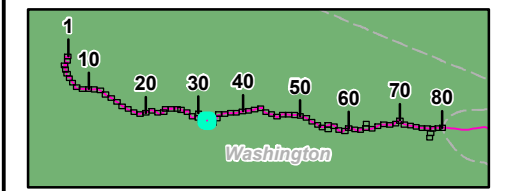
Prepared By: TETRA TECH	Date: 02/2017
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Base Map: SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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- ### Legend
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
 - Permanent ROW
 - Temporary ROW
 - ATWS
 - Permanent Access Road
 - Temporary Access Road
 - ROW-Travel LOD
 - ROW-Travel and Clearing LOD
 - Existing Block Valve
 - New Block Valve
 - Block Valve Setting LOD
 - Station LOD
 - Bore Pits
 - PEM Wetland
 - PFO Wetland
 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

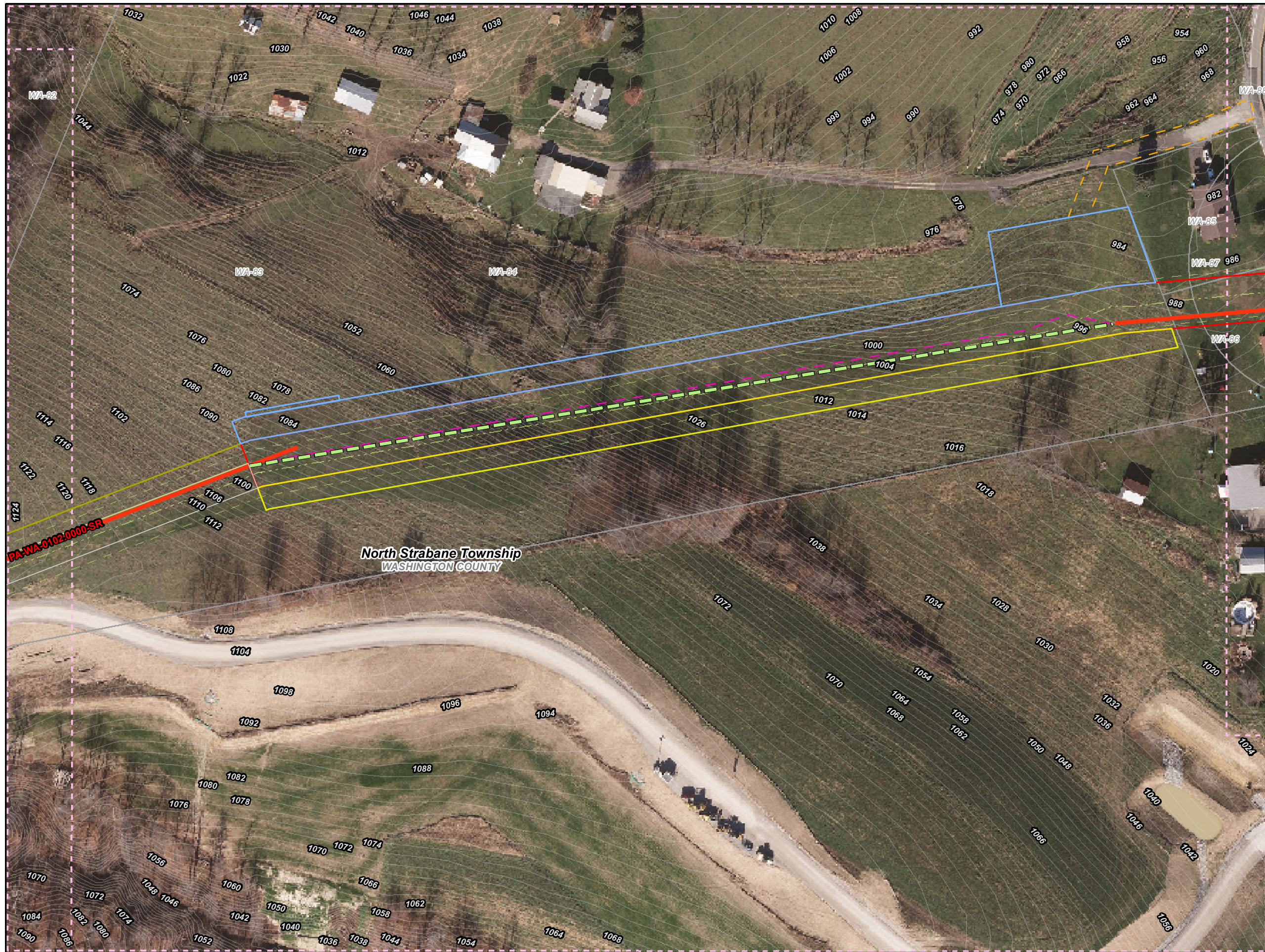


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
Washington County, PA.
Sheet 33 of 80**

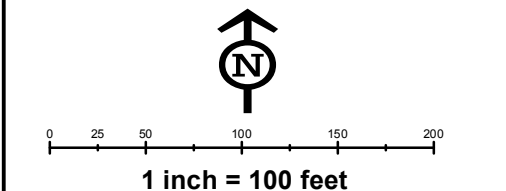
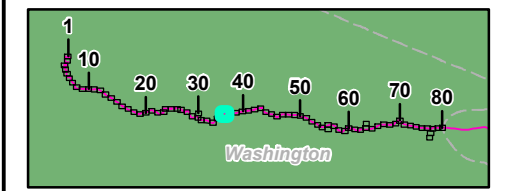
Prepared By: TETRA TECH	Date: 02/2017
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Base Map: SPLP 2014-2016, Roads from NRCS Geospatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- ### Legend
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
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 - Temporary ROW
 - ATWS
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 - Temporary Access Road
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 - PSS Wetland
 - Pond
 - Ephemeral Stream
 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

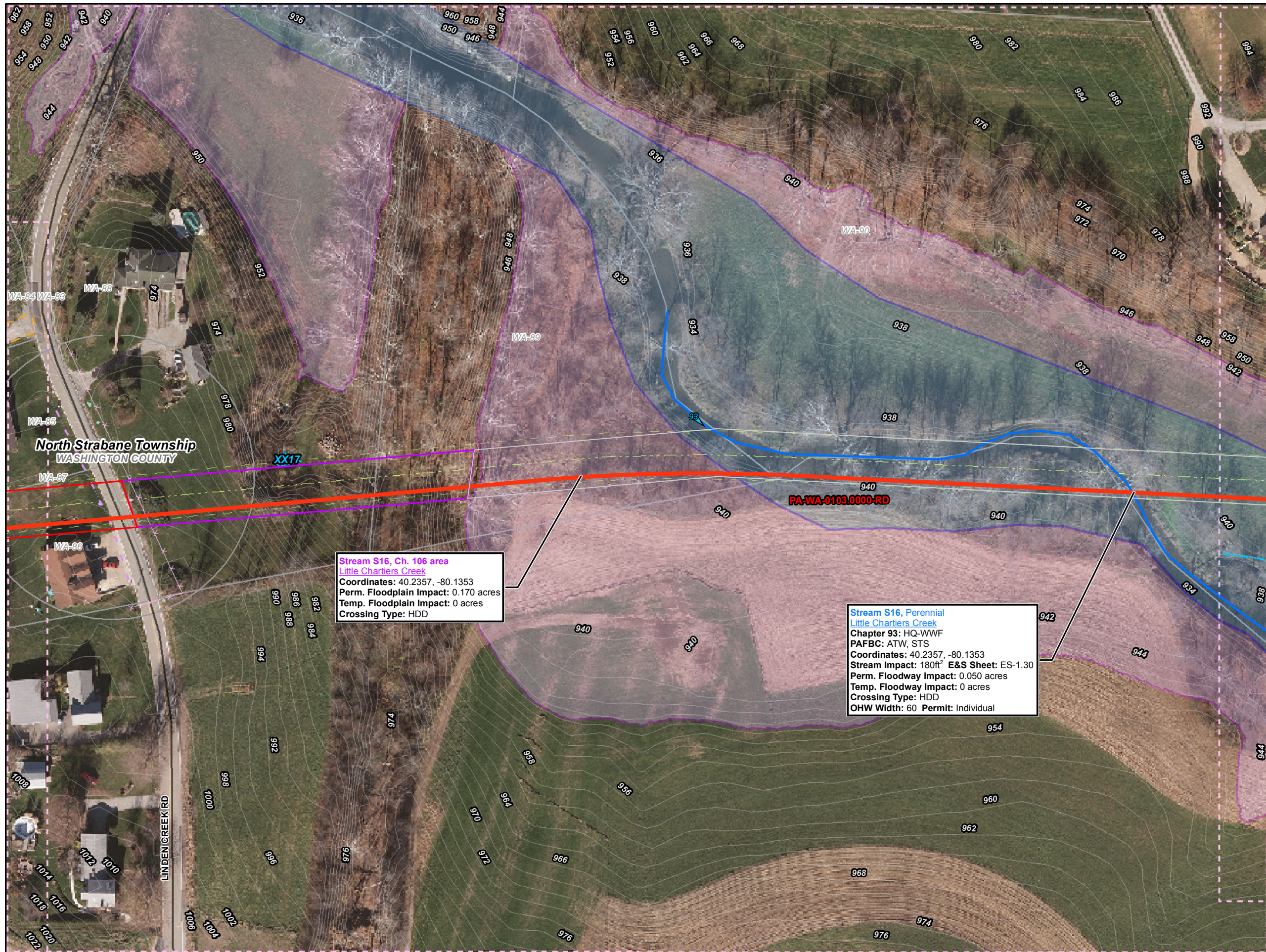


**Site Plan for the Sunoco
Pennsylvania Pipeline Project,
Washington County, PA.
Sheet 37 of 80**

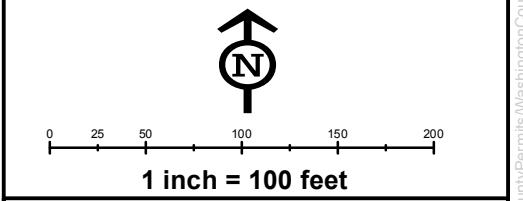
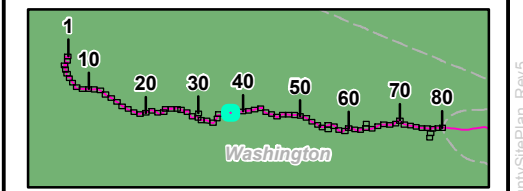
Prepared By: TETRA TECH	Date: 02/2017
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Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
Coordinate System: NAD 83 Stateplane, PA South, Feet

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- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
 - Permanent Easement (no surface disturbance)
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 - Temporary ROW
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 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe

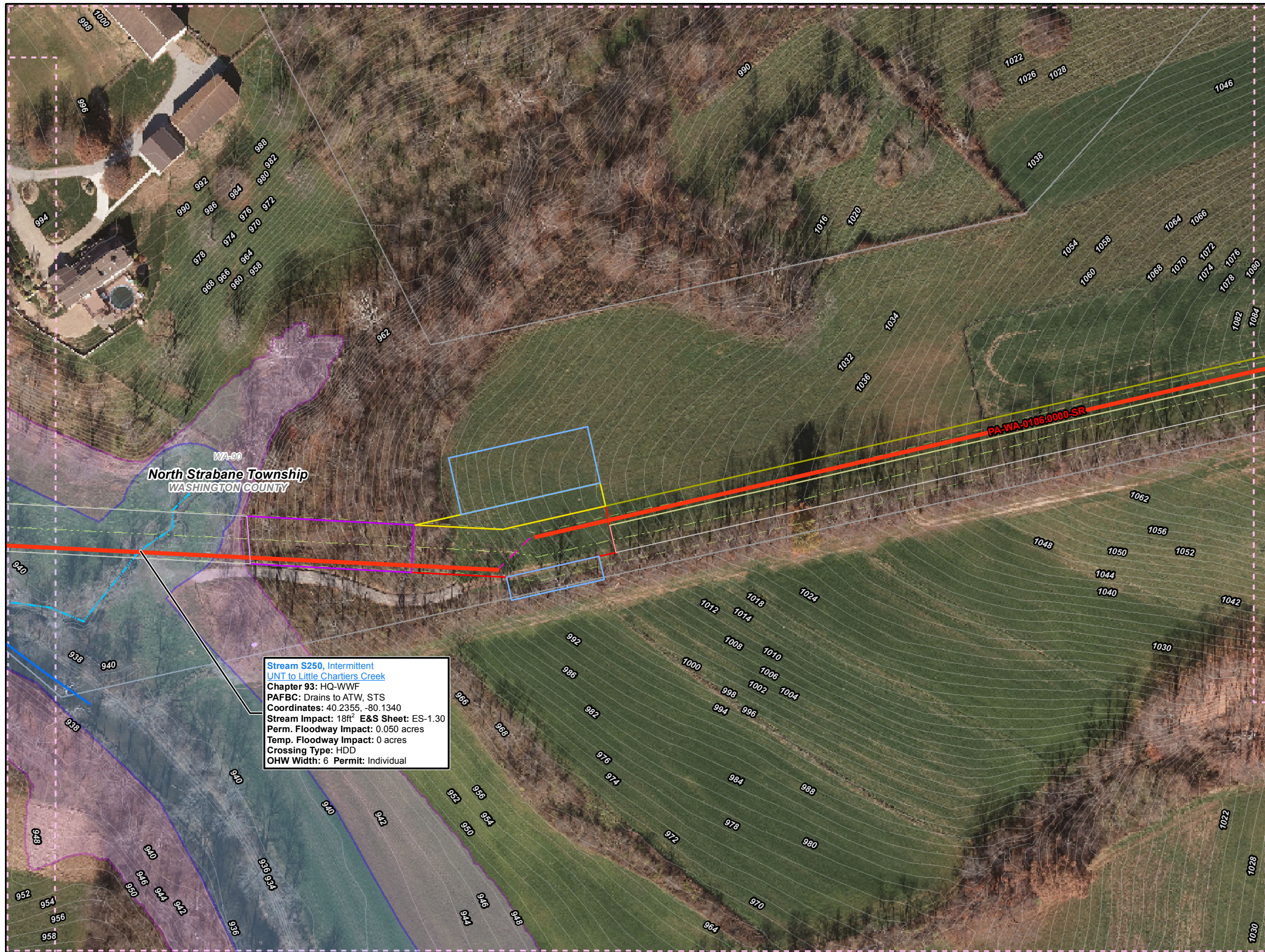


Site Plan for the Sunoco Pennsylvania Pipeline Project, Washington County, PA.
 Sheet 38 of 80

Prepared By:	Date:
TETRA TECH	02/2017

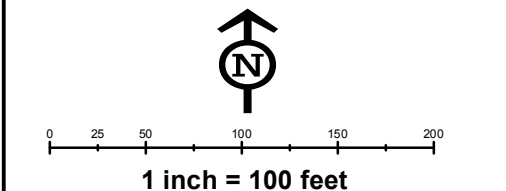
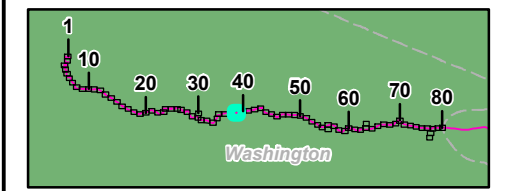
Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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Stream S250, Intermittent
 UNT to Little Chartiers Creek
 Chapter 93: HQ-WWF
 PAFBC: Drains to ATW, STS
 Coordinates: 40.2355, -80.1340
 Stream Impact: 18ft² E&S Sheet: ES-1.30
 Perm. Floodway Impact: 0.050 acres
 Temp. Floodway Impact: 0 acres
 Crossing Type: HDD
 OHW Width: 6 Permit: Individual

- Legend**
- Sheet Boundary
 - PPP 1
 - PPP 2
 - PPP 1, Bore
 - PPP 1, HDD
 - PPP 2, Bore
 - PPP 2, HDD
 - Pullback String
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 - Intermittent Stream
 - Perennial Stream
 - Chapter 105 Floodway
 - Waived Floodway
 - Ch. 106 Floodplain Fringe



Site Plan for the Sunoco Pennsylvania Pipeline Project, Washington County, PA.
 Sheet 39 of 80

Prepared By:	Date:
TETRA TECH	02/2017

Base Map; SPLP 2014-2016, Roads from NRCS Geo-spatial Data Giveaway, 100-Year Floodplain from FEMA NFHL, downloaded 9/2016. Aquatics, TT 2013-2016.
 Coordinate System: NAD 83 Stateplane, PA South, Feet

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