

SR 6219 SECTION 020, MEYERSDALE TO SOMERSET  
PUBLIC NOTICE NUMBER 12-10 (APPLICATION NUMBER 2008-2015, FEBRUARY 28, 2012)  
CHANGES TO AQUATIC RESOURCE IMPACTS

The following table summarizes the total impacts to aquatic resources resulting from the SR 6219 Section 020 project as they compare to the impacts recorded in the February 28, 2012 Public Notice No. 12-10.

**TABLE 1 – FEDERALLY JURISDICTIONAL AQUATIC RESOURCE IMPACT COMPARISON SUMMARY**

Resource	February 2012 Public Notice 12-10 Impacts		2011 JPA Submission	December 2012 Impacts		
	Permanent	Temporary	Affected Length <sup>1</sup>	Permanent	Temporary	Affected Length <sup>2</sup>
Jurisdictional Perennial Streams (liner feet)	5,884	0	2,920	5,925	6,225	0
Jurisdictional Intermittent Streams (liner feet)	1,813	0	206	1,813	535	0
Jurisdictional Ephemeral Streams (liner feet)	2,326	0	664	2,233	818	0
Total Jurisdictional Streams (liner feet)	10,023	0	3,790	9,971	7,578	0
Jurisdictional Emergent (PEM) Wetlands (Acres)	8.19	0	-----	8.41	1.19	-----
Jurisdictional Scrub-Shrub (PSS) Wetlands (Acres)	3.77	0	-----	3.77	0.06	-----
Jurisdictional Forested (PFO) Wetlands (Acres)	3.44	0	-----	3.52	0.37	-----
Jurisdictional Open Water (POW) Wetlands (Acres)	1.40	0	-----	1.42	0.14	-----
Total Jurisdictional Wetlands (Acres)	16.80	0	-----	17.12	1.76	-----

<sup>1</sup> Temporary stream impacts were quantified as Affected Stream Lengths within the Joint Permit Application as majority of the affected lengths will have modifications/relocations with a relatively short duration.

<sup>2</sup> Affected Length quantities have been shifted to the Temporary Impacts Column.

**TABLE 2 – NON-FEDERALLY JURISDICTIONAL AQUATIC RESOURCE IMPACT COMPARISON SUMMARY**

Resource	February 2012 Public Notice 12-10 Impacts		2011 JPA Submission	December 2012 Impacts		
	Permanent	Temporary	Affected Length <sup>1</sup>	Permanent	Temporary	Affected Length <sup>2</sup>
Non – Jurisdictional Perennial Streams (liner feet)	0	0	0	0	0	0
Non – Jurisdictional Intermittent Streams (liner feet)	0	0	0	0	0	0
Non – Jurisdictional Ephemeral Streams (liner feet)	2,213	0	2,357	2,280	2,259	0
Total Non – Jurisdictional Streams (liner feet)	2,213	0	2,357	2,280	2,259	0
Non – Jurisdictional Emergent (PEM) Wetlands (Acres)	0.74	0	-----	0.75	0.05	-----
Non – Jurisdictional Scrub-Shrub (PSS) Wetlands (Acres)	0.49	0	-----	0.49	0.14	-----
Non – Jurisdictional Forested (PFO) Wetlands (Acres)	0.08	0	-----	0.07	0.01	-----
Non – Jurisdictional Open Water (POW) Wetlands (Acres)	0.52	0	-----	0.52	0.00	-----
Non – Total Jurisdictional Wetlands (Acres)	1.83	0	-----	1.83	0.20	-----

<sup>1</sup> Temporary stream impacts were quantified as Affected Stream Lengths within the Joint Permit Application as majority of the affected lengths will have modifications/relocations with a relatively short duration.

<sup>2</sup> Affected Length quantities have been shifted to the Temporary Impacts Column.

**TABLE 3 – TOTAL AQUATIC RESOURCE IMPACT COMPARISON SUMMARY**

Resource	February 2012 Public Notice 12-10 Impacts		2011 JPA Submission	December 2012 Impacts		
	Permanent	Temporary	Affected Length <sup>1</sup>	Permanent	Temporary	Affected Length <sup>2</sup>
Total Perennial Streams (liner feet)	5,884	0	2,920	5,925	6,225	0
Total Intermittent Streams (liner feet)	1,813	0	206	1,813	535	0
Total Ephemeral Streams (liner feet)	4,539	0	3,021	4,513	3,077	0
Total Streams (liner feet)	12,236	0	6,147	12,251	9,837	0
Total Emergent (PEM) Wetlands (Acres)	8.93	0	-----	9.16	1.24	-----
Total Scrub-Shrub (PSS) Wetlands (Acres)	4.26	0	-----	4.26	0.20	-----
Total Forested (PFO) Wetlands (Acres)	3.52	0	-----	3.59	0.38	-----
Total Open Water (POW) Wetlands (Acres)	1.92	0	-----	1.94	0.14	-----
Total Wetlands (Acres)	18.63	0	-----	18.95	1.96	-----

<sup>1</sup> Temporary stream impacts were quantified as Affected Stream Lengths within the Joint Permit Application as majority of the affected lengths will have modifications/relocations with a relatively short duration.

<sup>2</sup> Affected Length quantities have been shifted to the Temporary Impacts Column.

The impacts on the following jurisdictional aquatic resources have changed since the February 28, 2012 Public Notice Number 12-10 has been published:

#### Permanent Impact Changes

UNT01-BLC – Impacts to this resource have decreased within the ephemeral and perennial reaches of this stream. A reduction of 219 linear feet of ephemeral channel and 329 linear feet of perennial channel has resulted by PennDOT working with the PFBC to minimize and/or avoid impacts to Blue Lick Creek and the habitat for the state endangered long nose sucker.

Wetland W05 – Impacts to this emergent wetland have increased by 0.01 acres as a result of minimizing impacts to Blue Lick Creek and the state endangered long nose sucker. Impact is associated with outlet protection to maintain UNT01-BLC west of the Mason-Dixon Highway.

UNT01-CR – Impacts to this perennial stream have increased by 42 linear feet as a result of identifying a long-term temporary crossing of this stream. Because the duration of this crossing will exceed 12 months, the impact will be counted as a permanent stream impact and mitigated appropriately.

Swamp Creek – Impacts to this perennial stream have increased by 40 linear feet as a result of identifying a long-term temporary crossing of this stream. Because the duration of this crossing will exceed 12 months, the impact will be counted as a permanent stream impact and mitigated appropriately.

UNT02-SC – Impacts to this perennial stream have increased by 32 linear feet as a result of identifying a long-term temporary crossing of this stream. Because the duration of this crossing will exceed 12 months, the impact will be counted as a permanent stream impact and mitigated appropriately.

Wetland YJ5 – Impacts to this emergent wetland have increased by 0.05 acres as a result of identifying a long-term temporary crossing of this wetland. Because the duration of this crossing will exceed 12 months, the impact will be counted as a permanent wetland impact and mitigated appropriately.

Buffalo Creek – Impacts to this perennial stream have increased by 231 linear feet as a result of identifying two long-term temporary crossings along this stream. Because the duration of these crossings will exceed 12 months, the impacts will be counted as a permanent stream impacts and mitigated appropriately.

UNT05B1-BC – Impacts to this ephemeral channel have increased by 126 linear feet as a result of redesigning a stormwater basin and associated outfall. The previous design incorporated a channel relocation / replacement that is not feasible with the re-design.

Wetland NA – Impacts to this emergent / open water wetland system have increased by 0.02 acres associated with the placement of outlet protection within the wetland. The outlet protection is required on the downstream end of the proposed culvert located on UNT01A-LR.

Wetland L – Impacts to this emergent wetland system have increased by 0.02 acres associated with a change to the roadside drainage configuration. Roadside drainage was redesigned to mitigate for on-site ephemeral channel impacts and to convey surface water around a designed stormwater management basin.

Wetland Farm Pond 1 – Impacts to this emergent / open water wetland system has increased by 0.12 acres as a result of developing and incorporating a wildlife underpass with waterflow into the highway design. Of the total

increase in impact, 0.07 acres of Farm Pond 1 will involve placement of fill needed to connect the wildlife travel corridor from within the underpass to the existing ground surface. The additional 0.05 acre impact is a result of excavation to tie the existing perennial channel (UNT07-LR) to the open water within this wetland and to construct a conveyance channel from the open water to the proposed mitigation site. These impacts are necessary to incorporate a wildlife crossing in this location.

Wetland WA01 – Impacts to this forested wetland have increased by 0.08 acres as a result of timber cutting and stump removal anticipated for the construction of the relocated UNT01-KR upper reach. Wetlands are anticipated to reestablish along the stream bank, however the wetlands will not be forested.

Laurel Hill Creek – This is a newly identified perennial stream proposed for restoration activities as part of the compensatory mitigation for this project. Permanent impacts associated with this restoration include 25 linear feet for permanent equipment crossing placed within the stream. This impact is unavoidable as a requirement by the property owner. Wetlands located along Laurel Hill Creek – Emergent wetlands within this setting were not previously identified. The proposed restoration of Laurel Hill Creek will result in 0.02 acres of unavoidable impact to Wetland 1.

### Temporary Impacts

The following federally jurisdictional aquatic resources now have temporary impacts accounted for, which were not identified or quantified as temporary impacts within the original submission of the Joint Permit Application nor identified within Public Notice No. 12-10. Temporary impacts due to stream relocations were originally identified within the Joint Permit Application as minimization efforts of the affected length of a stream reach. The affected length of each stream channel is located on Stream Impact Tracking Tables included in *Requirement j. EA Form, Enclosure D Project Impacts, Appendix A Impact Tracking* of the JPA, these impacts are now being accounted as temporary stream impacts. Since the original Public Notice, PennDOT has identified and proposed mitigation of 2,325 linear feet of Laurel Hill Creek, during construction of this mitigation work the entire length is being accounted as a temporary impact. In addition temporary impacts have been added for temporary crossings and the installation of fencing along the limited access right-of-way and around stormwater basins.

UNT01-BLC – Temporary impacts to this resource include the 219 linear feet of ephemeral channel that will be relocated along the proposed interchange ramps.

Wetlands W06 and W07 – Temporary impacts to these two emergent wetlands are a result of the installation of fence along the limited access right-of-way. Temporary impacts total 0.02 acres, or 0.01 acres per wetland respectively.

UNT03-CR – Temporary impacts to this ephemeral resource include the 134 linear feet of channel to be filled and channels of the same length to be created/replaced within the same drainage.

UNT01-CR – Temporary impacts to this perennial stream include the 270 linear feet of channel relocation proposed for this project. The stream relocation includes similar substrates, geometry, and riparian conditions as the existing stream. An additional 21 linear feet of stream impact has been identified resulting from a temporary channel discharging to this stream. Temporary stream bank grading will be required to tie the temporary channel into the natural stream. Total temporary impacts to this resource are anticipated to be 291 linear feet.

UNT01B-CR – Temporary impacts to this ephemeral channel include the 35 linear feet of channel relocation proposed for this project. The relocation is necessary to tie this channel into the relocated UNT01-CR.

UNT01A-SC (Perennial), UNT01-SC (Intermittent and Perennial reaches), UNT01A1-SC (Intermittent), and UNT01B-SC (Intermittent) – Temporary impacts associated with these resources include 629 linear feet of perennial stream and 329 linear feet of intermittent streams. These temporary impacts are associated with the engineered slope being proposed along the Swamp Creek Valley slope. A series of under drains (similar to French drains) will be installed to maintain surface flows within the remnant channels. Temporary impacts will occur during the proposed construction of the engineered slope and drainage system.

Wetland YJ5 – Temporary impacts associated with this emergent wetland includes a 0.01 acre temporary crossing. This temporary crossing will occur within the same location as the long-term temporary crossing being accounted as a permanent impact.

UNT02-BC – Temporary impact associated with this federally jurisdictional ephemeral channel will occur during construction to realign this channel. Temporary impacts total 49 linear feet.

UNT05B-BC – Temporary impacts associated with this perennial channel include 42 linear feet of modification to tie this channel into the proposed culvert.

UNT05B1-BC – Temporary impacts associated with this federally jurisdictional ephemeral channel include 168 linear feet of channel relocation. This relocation maintains the continuity of this channel to confluence with the perennial UNT05B-BC at a different location.

UNT05C-BC – Temporary impacts associated with this federally jurisdictional ephemeral channel includes 213 linear feet of channel relocation. This relocation maintains the hydrologic source for an emergent wetland (W54) and the continuity of this channel with the perennial UNT05-BC.

Wetland W54 – Temporary impacts to this emergent wetland include 0.02 acres resulting from the installation of fence along the limited access right-of-way.

Wetland W81 – Temporary impacts to this scrub shrub / open water wetland include 0.03 acre temporary crossing. This resource has not been identified as an impact previously.

Wetland W85 – Temporary impacts to this emergent wetland include 0.01 acre resulting from the installation of fence along the limited access right-of-way. This resource has not previously been identified as an impact.

Wilson Creek – Temporary impacts to this perennial stream include 1,929 linear feet due to stream relocation and an additional 145 linear feet of stream that will be mitigated on-site by improving the existing habitat, substrates, and limited riparian buffer.

Wetland R – Temporary impacts to this mixed habitat (PEM/PSS/PFO) wetland system include 0.05 acres resulting from the installation of fence along the limited access right-of-way. The fence will be weaved around tree stumps to avoid permanent forested wetland impacts.

Wetland RA – Temporary impacts to this emergent wetland include 0.02 acres resulting from the installation of fence along the limited access right-of-way. This resource was not previously identified to be impacted, permanently or temporarily.

UNT04-LR – Temporary impacts to this perennial stream include 110 linear feet. The temporary impacts include approximately 30 linear feet for a channel modification associated with the proposed culvert installation, 30 linear feet

associated with temporary channels altering the cross section of the stream (grading associated with tying the temporary channel into UNT04-LR) and approximately 50 linear feet associated with restoration activities along this channel. The restoration activities include the removal and regrading of five stream crossings (one culvert and four fords).

UNT07-LR – Temporary impacts to this perennial stream include 60 linear feet associated with channel modifications associated with the proposed culvert and wildlife crossing.

Laurel Run – Temporary impacts to this perennial stream include 34 linear feet associated with channel modifications associated with the proposed culvert.

Wetland F – Temporary impacts to this forested / emergent wetland system includes 0.07 acres associated with the placement of fence along the limited access right-of-way. Permanent impacts to the forested wetland are being avoided by weaving the fence around tree stumps within the wetland.

Wetlands FA, FB, and FC – Temporary impacts to these mixed habitat (PEM/PSS/POW) wetland systems are associated with a temporary crossing. Temporary crossings will result in the following acreages, 0.08 acres to wetland FA, 0.03 acres to wetland FB, and 0.01 acres to wetland FC. These wetlands are also considered total losses as a result of the final project footprint.

Wetland Farm Pond 01 – Temporary impacts associated with this emergent / open water wetland system is due to the drawdown of the pond necessary for the installation of the wildlife underpass with water flow in this location and potential impacts due to installation of right-of-way fencing. Temporary impacts include 0.11 acres.

Wetland HB – Temporary impacts to this forested wetland include 0.02 acres resulting from the installation of fence along the limited access right-of-way. Permanent impacts to this resource are being minimized by weaving the right-of-way fence around tree stumps to prevent disturbance to the wetland.

Wetland J – Temporary impacts to this emergent wetland include 0.12 acres resulting from the installation of right-of-way fencing.

Wetland L – Temporary impacts to this emergent wetland include 0.17 acres resulting from the installation of right-of-way fencing.

Wetland NA – Temporary impacts to this emergent / open water wetland system include 0.05 acres resulting from two separate temporary crossings, 0.04 acres due to the installation of right-of-way fencing, and 0.02 acres due to excavating a temporary diversion channel into the wetland during the installation of the proposed culvert in this location. Total temporary impacts are 0.11 acres.

Wetland NF – Temporary impacts to this emergent/scrub-shrub wetland system include 0.02 acres due to the installation of fence along the limited access right-of-way.

Wetland W28 – Temporary impacts to this emergent / forested wetland system include 0.08 acres due to a temporary crossing and the placement of fence along the limited access right-of-way. Of the total, 0.04 acres is due to the temporary crossing and the remaining 0.04 acres due to installing the fence. Permanent impacts to this wetland for the placement of right-of-way fence are being avoided by weaving the fence to avoid unnecessary removal of tree stumps or disturbances to the wetland surface.

Wetland W41 – Temporary impacts to this emergent wetland include 0.02 acres resulting from the installation of right-of-way fencing. This wetland was not previously identified as an impacted resource.

Wetland W51 – Temporary impacts to this emergent wetland include 0.01 acres resulting from the installation of right-of-way fencing.

UNT01-KR – Temporary impacts to the intermittent and perennial reaches of this stream are due to stream relocations and channel modifications necessary for the installation of the proposed culverts. Temporary impacts include 206 linear feet of intermittent stream and 830 linear feet of perennial stream reaches.

Wetland W26 – Temporary impacts to this emergent wetland include 0.03 acres resulting from the installation of right-of-way fencing. This wetland was not previously identified as an impacted resource.

Wetland WA01 – Temporary impacts to this forested wetland include 0.21 acres resulting from the installation of right-of-way fencing. Permanent impacts to this forested wetland resulting from the installation of the fence have been avoided by weaving the fence around tree stumps to prohibit the unnecessary disturbance to the wetland surface.

Laurel Hill Creek – This is a newly identified perennial stream proposed for restoration activities as part of the compensatory mitigation for this project. Temporary impacts will occur throughout the entire 2,300 linear-foot reach proposed for restoration/remediation.

Wetlands located along Laurel Hill Creek – Emergent wetlands within this setting were not previously identified. The proposed restoration of Laurel Hill Creek will result in 0.51 acres of temporary impact. Temporary impacts were calculated based on laying back the stream banks and these areas reestablishing as wetlands post-construction.

The following non-federally jurisdictional aquatic resource impacts have changed since the September 11, 2011 submission of the Joint Permit Application:

#### Permanent Impacts

UNT09-BC – Impacts to this ephemeral channel have decreased since the submission of the Joint Permit Application. The reduction of 46 linear feet of impact is a direct result of relocating this channel along Fogletown Road rather than upgrade the existing culvert under the secondary roadway, which resulted in the previously identified impact.

UNT10-BC – Impacts to this ephemeral channel have increased based on conversations with the PADEP and accounting for 113 linear feet of additional impact that was originally calculated as a channel relocation. However, due to the inability to relocate this ephemeral channel into a natural appearing replacement channel, an impact resulted. Proposed open channel will be gabion and rock lined.

#### Temporary Impacts

The following non-federally jurisdictional aquatic resource now have temporary impacts accounted for, which were not identified or quantified as temporary impacts within the September 11, 2011 submission of the Joint Permit Application. Temporary impacts due to stream relocations were originally identified within the Joint Permit

Application as minimization efforts of the affected length of a stream reach. The affected length of each stream channel is located on Stream Impact Tracking Tables included in *Requirement j, EA Form, Enclosure D Project Impacts, Appendix A Impact Tracking* of the JPA, these impacts are now being accounted as temporary stream impacts. Since the original Public Notice, PennDOT has identified and proposed mitigation of 2,325 linear feet of Laurel Hill Creek, during construction of this mitigation work the entire length is being accounted as a temporary impact. In addition temporary impacts have been added for temporary crossings and the installation of fencing along the limited access right-of-way and around stormwater basins.

UNT01A-BC, UNT11-BC, UNT07-BC, UNT08A-BC, UNT09-BC, and UNT10-BC – Temporary impacts to these ephemeral channels include stream relocations on each of these streams. UNT01A-BC includes 36 linear feet of temporary impact due to relocation. UNT11-BC includes 270 linear feet of temporary impact due to relocation. UNT07-BC includes 1,066 linear feet of temporary impact due to relocation. UNT08A-BC includes 71 linear feet of temporary impact due to relocation. UNT09-BC includes 15 linear feet of temporary impact due to relocation. UNT10-BC includes 200 linear feet of temporary impact due to relocation.

Wetland RF – Temporary impacts to this mixed habitat (PEM/PSS/PFO) wetland include 0.03 acres resulting from the installation of fence along the limited access right-of-way. Permanent impacts to the forested habitat within this wetland will be avoided by weaving the right-of-way fence around tree stumps to prohibit unnecessary disturbances to the wetland surface. This resource was not previously identified as being impacted by this project.

Wetland W02 - Temporary impacts to this emergent wetland include 0.02 acres resulting from the installation of fence along the limited access right-of-way.

Wetland YF – Temporary impacts to this scrub-shrub wetland include 0.07 acres resulting from a temporary crossing prior to construction (0.05 acres) and the installation of fence along the limited access right-of-way (0.02 acres).

Wetland W57 – Temporary impacts to this scrub-shrub wetland include 0.05 acres resulting from the installation of fence along the limited access right-of-way.

UNT04A-LR, UNT04B-LR, UNT04B1-LR, UNT04B1a-LR – Temporary impacts associated with these ephemeral channels result from relocations. UNT04A-LR has a temporary impact of 71 linear feet. UNT04B-LR has a temporary impact of 208 linear feet. UNT04B1-LR has a temporary impact of 262 linear feet. UNT04B1a-LR has a temporary impact of 60 linear feet.

Wetland W29 – Temporary impacts to this emergent wetland include 0.01 acres resulting from the installation of right-of-way fencing.

Wetland W39 – Temporary impacts to this emergent wetland include 0.02 acres resulting from the installation of right-of-way fencing.

**TABLE 4 – IMPACTED AQUATIC RESOURCES LOCATION DATA**

Resource	Stream / Wetland	Habitat Classification	Impact Type	Impact Size	Latitude	Longitude
UNT01-BLC	Stream	Ephemeral	Permanent	378 l.f.	39.837124 N	79.040064 W
		Perennial	Temporary	219 l.f.	39.837984 N	79.039176 W
UNT01A-BLC	Stream	Perennial	Permanent	605 l.f.		
UNT01B-BLC	Stream	Intermittent	Permanent	614 l.f.	39.838834 N	79.038446 W
UNT01C-BLC	Stream	Perennial	Permanent	205 l.f.	39.838626 N	79.038492 W
UNT01D-BLC <sup>1</sup>	Stream	Ephemeral	Permanent	71 l.f.	39.837939 N	79.040199 W
W05	Wetland	Emergent	Permanent	338 l.f.	39.837939 N	79.040199 W
W06	Wetland	Emergent	Permanent	0.04 ac	39.836162 N	79.040905 W
W07	Wetland	Emergent	Temporary	0.01 ac	39.836510 N	79.041308 W
W09	Wetland	Emergent	Temporary	0.01 ac	39.836137 N	79.041486 W
W09	Wetland	Emergent / Scrub Shrub	Permanent	1.26 ac \ 0.31 ac	39.837070 N	79.040293 W
W10	Wetland	Emergent	Permanent	0.19	39.837791 N	79.039632 W
W11	Wetland	Emergent / Scrub Shrub	Permanent	0.18 ac / 0.04 ac	39.837900 N	79.040442 W
W12	Wetland	Emergent	Permanent	0.07 ac	39.839204 N	79.038336 W
W13	Wetland	Emergent	Permanent	0.01 ac	39.839036 N	79.038160 W
W14	Wetland	Emergent	Permanent	0.01 ac	39.838789 N	79.038454 W
W15	Wetland	Emergent	Permanent	0.05 ac	39.838630 N	79.038635 W
UNT03-CR	Stream	Ephemeral	Temporary	134 l.f.	39.840104 N	79.042970 W
UNT01-CR	Stream	Perennial	Permanent	74 l.f.	39.847973 N	79.041921 W
UNT01B-CR	Stream	Ephemeral	Temporary	291 l.f.		
UNT01A-SC	Stream	Perennial	Permanent	140 l.f.	39.847942 N	79.041711 W
UNT01-SC	Stream	Intermittent / Perennial	Temporary	35 l.f.		
UNT01A1-SC	Stream	Perennial	Permanent	230 l.f.	39.854748 N	79.040659 W
UNT01B-SC	Stream	Intermittent	Temporary	174 l.f.		
UNT01C-SC <sup>1</sup>	Stream	Ephemeral	Permanent	117 l.f.	39.855302 N	79.040974 W
UNT01D-SC <sup>1</sup>	Stream	Ephemeral	Permanent	455 l.f.		
UNT03-SC	Stream	Intermittent	Permanent	128 l.f.	39.854683 N	79.040618 W
Swamp Creek	Stream	Perennial	Temporary	40 l.f.		
UNT01B-SC	Stream	Intermittent	Permanent	67 l.f.	39.855115 N	79.040754 W
UNT01C-SC <sup>1</sup>	Stream	Ephemeral	Temporary	172 l.f.		
UNT01D-SC <sup>1</sup>	Stream	Ephemeral	Permanent	478 l.f.	39.855241 N	79.039901 W
UNT03-SC	Stream	Ephemeral	Permanent	69 l.f.	39.855664 N	79.040459 W
Swamp Creek	Stream	Perennial	Permanent	189 l.f.	39.857521 N	79.039226 W
UNT02-SC	Stream	Perennial	Permanent	40 l.f.	39.865552 N	79.037875 W
UNT04-SC	Stream	Ephemeral	Permanent	32 l.f.	39.865126 N	79.038012 W
W59	Wetland	Ephemeral	Permanent	859 l.f.	39.866235 N	79.038935 W
W60 <sup>1</sup>	Wetland	Emergent	Permanent	0.02 ac	39.866827 N	79.039438 W
W66 <sup>1</sup>	Wetland	Emergent	Permanent	0.03 ac	39.866501 N	79.039373 W
W67 <sup>1</sup>	Wetland	Emergent	Permanent	0.01 ac	39.857862 N	79.038369 W
W74	Wetland	Emergent	Permanent	0.05 ac	39.857358 N	79.038373 W
	Wetland	Emergent	Permanent	0.01 ac	39.854512 N	79.039941 W

Resource	Stream / Wetland	Habitat Classification	Impact Type	Impact Size	Latitude	Longitude
W75	Wetland	Emergent	Permanent	0.01 ac	39.854454 N	79.040054 W
W76	Wetland	Emergent	Permanent	0.03 ac	39.854242 N	79.040298 W
W77 <sup>1</sup>	Wetland	Emergent	Permanent	0.04 ac	39.854044 N	79.040589 W
YJ5	Wetland	Emergent	Permanent Temporary	0.05 ac 0.01ac	39.865279 N	79.037750 W
UNT02-BC	Stream	Ephemeral / Intermittent / Perennial	Temporary Permanent Permanent	49 l.f. 596 l.f. 522 l.f.	39.869729 N 39.870454 N 39.871272 N	79.040334 W 79.041234 W 79.042754 W
UNT02A-BC	Stream	Intermittent	Permanent	96 l.f.	39.870085 N	79.042227 W
UNT04-BC <sup>1</sup>	Stream	Ephemeral	Permanent	90 l.f.	39.870447 N	79.044105 W
UNT03-BC	Stream	Intermittent	Permanent	283 l.f.	39.871802 N	79.043990 W
UNT03A-BC	Stream	Intermittent	Permanent	174 l.f.	39.871920 N	79.044413 W
Buffalo Creek	Stream	Perennial	Permanent	231 l.f.	39.871790 N	79.047648 W
UNT01-BC	Stream	Perennial	Permanent	592 l.f.	39.870607 N	79.046806 W
UNT01A-BC <sup>1</sup>	Stream	Ephemeral	Permanent Temporary	13 l.f. 36 l.f.	39.870135 N	79.046928 W
UNT011-BC <sup>1</sup>	Stream	Ephemeral	Temporary	270 l.f.	39.874381 N	79.041430 W
UNT07-BC <sup>1</sup>	Stream	Ephemeral	Temporary	1,066 l.f.	39.874073 N	79.044052 W
UNT08A-BC <sup>1</sup>	Stream	Ephemeral	Temporary	71 l.f.	39.877403 N	79.043410 W
UNT09-BC <sup>1</sup>	Stream	Ephemeral	Temporary	15 l.f.	39.875727 N	79.042394 W
UNT10-BC <sup>1</sup>	Stream	Ephemeral	Permanent Temporary	510 l.f. 200 l.f.	39.888309 N	79.043973 W
UNT05A-BC	Stream	Perennial	Permanent	353 l.f.	39.907007 N	79.048036 W
UNT05B-BC	Stream	Perennial	Permanent Temporary	217 l.f. 42 l.f.	39.910293 N	79.049174 W
UNT05B1-BC	Stream	Ephemeral	Permanent Temporary	160 l.f. 168 l.f.	39.910623 N	79.049840 W
UNT05-BC	Stream	Perennial	Permanent	300 l.f.	39.917374 N	79.049760 W
UNT05C-BC	Stream	Ephemeral	Permanent Temporary	42 l.f. 213 l.f.	39.917936 N	79.049663 W
RF <sup>1</sup>	Wetland	Emergent / Scrub Shrub / Forested	Temporary	0.01 ac 0.01 ac 0.01 ac	39.915581 N	79.050582 W
W02 <sup>1</sup>	Wetland	Emergent	Temporary	0.02 ac	39.899600 N	79.042191 W
W03 <sup>1</sup>	Wetland	Emergent	Permanent	0.01 ac	39.899270 N	79.041866 W
W16	Wetland	Emergent	Permanent	0.02 ac	39.870422 N	79.041014 W
W17	Wetland	Emergent	Permanent	0.01 ac	39.871243 N	79.042826 W
W33 <sup>1</sup>	Wetland	Emergent	Permanent	0.01 ac	39.872445 N	79.043945 W
W34	Wetland	Emergent / Scrub Shrub / Open Water	Permanent	0.04 ac 0.04 ac 0.07 ac	39.872294 N	79.044476 W
W53	Wetland	Scrub Shrub	Permanent	0.15 ac	39.917314 N	79.049540 W
W54	Wetland	Emergent	Permanent Temporary	0.02 ac 0.02 ac	39.918135 N	79.049627 W
W55	Wetland	Scrub Shrub / Emergent	Permanent	0.02 ac 0.00 ac	39.917672 N	79.050489 W

Resource	Stream / Wetland	Habitat Classification	Impact Type	Impact Size	Latitude	Longitude
W81	Wetland	Scrub Shrub / Open Water	Temporary	0.01 ac 0.02 ac	39.871897 N	79.048834 W
W85	Wetland	Emergent	Temporary	0.01 ac	39.871778 N	79.045390 W
YA <sup>1</sup>	Wetland	Emergent / Forested	Permanent	0.16 ac 0.07 ac	39.917857 N	79.050064 W
YD <sup>1</sup>	Wetland	Scrub Shrub / Emergent	Permanent	0.05 ac 0.04 ac	39.916812 N	79.049593 W
YF <sup>1</sup>	Wetland	Scrub Shrub	Permanent Temporary	0.43 ac 0.07 ac	39.915788 N	79.049772 W
Wilson Creek	Stream	Perennial	Permanent Temporary	145 l.f. 1,929 l.f.	39.934602 N	79.048078 W
R	Wetland	Emergent / Forested / Scrub Shrub Emergent / Forested / Scrub Shrub	Permanent Temporary	0.44 ac 0.26 ac 0.17 ac 0.03 ac 0.01 ac 0.01 ac	39.931342 N	79.050046 W
RA	Wetland	Emergent	Temporary	0.02 ac	39.932214 N	79.050122 W
RB <sup>1</sup>	Wetland	Emergent	Permanent	0.07 ac	39.927056 N	79.050804 W
W44	Wetland	Emergent	Permanent	0.13 ac	39.934899 N	79.048707 W
W45	Wetland	Emergent	Permanent	0.02 ac	39.935157 N	79.049691 W
W57 <sup>1</sup>	Wetland	Scrub Shrub	Permanent Temporary	0.01 ac 0.05 ac	39.929577 N	79.050658 W
W63 <sup>1</sup>	Wetland	Emergent	Permanent	0.01 ac	39.927130 N	79.050354 W
UNT01A-LR	Stream	Perennial	Permanent	215 l.f.	39.940136 N	79.046429 W
UNT01-LR	Stream	Ephemeral Intermittent Perennial	Permanent	56 l.f. 36 l.f. 489 l.f.	39.941536 N 39.941481 N 39.941153 N	79.046450 W 79.046586 W 79.047382 W
UNT05-LR <sup>1</sup>	Stream	Ephemeral	Permanent	198 l.f.	39.944483 N	79.046783 W
UNT05A-LR <sup>1</sup>	Stream	Ephemeral	Permanent	100 l.f.	39.944627 N	79.046113 W
UNT05B-LR <sup>1</sup>	Stream	Ephemeral	Permanent	49 l.f.	39.945036 N	79.046206 W
UNT11-LR <sup>1</sup>	Stream	Ephemeral	Permanent	20 l.f.		
UNT04-LR	Stream	Perennial	Permanent Temporary	353 l.f. 110 l.f.	39.952929 N	79.051631 W
UNT04A-LR <sup>1</sup>	Stream	Ephemeral	Temporary	71 l.f.	39.951410 N	79.045337 W
UNT04B-LR <sup>1</sup>	Stream	Ephemeral	Permanent Temporary	415 l.f. 208 l.f.	39.950183 N	79.046309 W
UNT04B1-LR <sup>1</sup>	Stream	Ephemeral	Temporary	262 l.f.	39.950429 N	79.047182 W
UNT04B1a-LR <sup>1</sup>	Stream	Ephemeral	Temporary	60 l.f.	39.950268 N	79.047295 W
UNT07-LR	Stream	Ephemeral Perennial Perennial	Permanent Temporary	177 l.f. 222 l.f. 60 l.f.	39.954213 N 39.954328 N	79.045793 W 79.045793 W
UNT07A-LR	Stream	Ephemeral	Permanent	232 l.f.	39.954960 N	79.046901 W
Laurel Run	Stream	Perennial	Permanent Temporary	385 l.f. 34 l.f.	39.961198 N	79.045046 W
UNT09A-LR	Stream	Perennial	Permanent	193 l.f.	39.961353 N	79.045191 W

Resource	Stream / Wetland	Habitat Classification	Impact Type	Impact Size	Latitude	Longitude
NF	Wetland	Emergent / Scrub Shrub	Temporary	0.01 ac 0.01 ac	39.939423 N	79.047996 W
NA	Wetland	Emergent / Open Water Emergent / Open Water	Permanent Temporary	0.83 ac 0.36 ac 0.08 ac 0.03 ac	39.939832 N	79.046938 W
W51	Wetland	Emergent	Permanent Temporary	0.11 ac 0.01 ac	39.940897 N	79.047341 W
Farm Pond 3	Wetland	Emergent / Open Water	Permanent	0.11 ac 0.11 ac	39.941348 N	79.046231 W
N1	Wetland	Scrub Shrub	Permanent	2.08 ac	39.942134 N	79.047009 W
N2	Wetland	Emergent	Permanent	0.04 ac	39.941561 N	79.046518 W
M <sup>1</sup>	Wetland	Emergent	Permanent	0.26 ac	39.944245 N	79.047402 W
W64 <sup>1</sup>	Wetland	Emergent	Permanent	0.01 ac	39.944882 N	79.046283 W
W65 <sup>1</sup>	Wetland	Emergent	Permanent	0.04 ac	39.945761 N	79.046528 W
Farm Pond 2 <sup>2</sup>	Wetland	Open Water	Permanent	0.52 ac	39.947380 N	79.046249 W
L	Wetland	Emergent	Permanent Temporary	1.40 ac 0.17 ac	39.949556 N	79.047219 W
K	Wetland	Emergent	Permanent	0.13 ac	39.950928 N	79.046259 W
W41	Wetland	Emergent	Temporary	0.02 ac	39.953097 N	79.047549 W
W39 <sup>1</sup>	Wetland	Emergent / Forested Emergent / Forested	Permanent Temporary	0.01 ac 0.00 ac 0.02 ac 0.00 ac	39.954011 N	79.045506 W
Farm Pond 1	Wetland	Emergent / Open Water Emergent / Open Water	Permanent Temporary	0.28 ac 0.01 ac 0.05 ac 0.06 ac	39.954402 N	79.046473 W
J	Wetland	Emergent	Permanent Temporary	0.86 ac 0.12 ac	39.955039 N	79.046587 W
HB	Wetland	Forested	Permanent Temporary	0.08 ac 0.02 ac	39.960988 N	79.045971 W
HA	Wetland	Emergent	Permanent	0.07 ac	39.961342 N	79.045169 W
F	Wetland	Forested / Emergent Forested / Emergent	Permanent Temporary	0.63 ac 0.42 ac 0.07 ac 0.00 ac	39.962507 N	79.045769 W
FA	Wetland	Emergent / Scrub Shrub / Open Water	Permanent	0.37 ac 0.27 ac 0.27 ac	39.962744 N	79.044655 W
FB	Wetland	Emergent / Scrub Shrub / Open Water	Permanent	0.40 ac 0.29 ac 0.29 ac	39.963009 N	79.044618 W
FC	Wetland	Emergent / Scrub Shrub / Open Water	Permanent	0.41 ac 0.31 ac 0.31 ac	39.963173 N	79.044510 W

Resource	Stream / Wetland	Habitat Classification	Impact Type	Impact Size	Latitude	Longitude
W30	Wetland	Emergent / Scrub Shrub	Permanent	0.25 ac 0.08 ac	39.963382 N	79.045689 W
W29	Wetland	Scrub Shrub / Emergent / Forested	Temporary	0.01 ac 0.00 ac 0.00 ac	39.964558 N	79.045303 W
W28	Wetland	Forested / Emergent	Permanent	0.38 ac 0.09 ac	39.965631 N	79.043216 W
		Forested / Emergent	Temporary	0.06 ac 0.02 ac		
UNT01-KR	Stream	Intermittent / Perennial	Permanent	228 l.f. -21 l.f.	39.972488 N 39.976018 N	79.041816 W 79.042276 W
		Intermittent / Perennial	Temporary	206 l.f. 830 l.f.	39.982042 N	79.041072 W
UNT01A-KR	Stream	Perennial	Permanent	38 l.f.	39.975786 N	79.042281 W
WA01	Wetland	Forested	Permanent Temporary	2.17 ac 0.21 ac	39.972203 N	79.042081 W
W26	Wetland	Emergent	Temporary	0.03 ac	39.974350 N	79.043903 W
W80	Wetland	Emergent / Scrub Shrub	Permanent	0.01 ac 0.01 ac	39.975882 N	79.042428 W
Laurel Hill Creek	Stream	Perennial	Permanent Temporary	25 l.f. 2,300 l.f.	40.042222 N	79.176667 W
LHC-Wetland 1	Wetland	Emergent	Permanent	0.02 ac	40.040000 N	79.176667 W
LHC-Wetland 2	Wetlands	Emergent	Temporary	0.51 ac	40.041667 N	79.176944 W
LHC-Wetland 3		Emergent			40.041389 N	79.177500 W
LHC-Wetland 4		Emergent			40.041111 N	79.177778 W
LHC-Wetland 5		Emergent			40.042222 N	79.176667 W
LHC-Wetland 6		Emergent			40.043056 N	79.176667 W
LHC-Wetland 7		Emergent / Scrub Shrub			40.043333 N	79.175000 W
LHC-Wetland 1A		Emergent			40.041944 N	79.176389 W
LHC-Wetland 2A		Emergent			40.042222 N	79.176111 W
LHC-Wetland 3A		Emergent			40.042778 N	79.175833 W
LHC-Wetland 4A		Emergent / Scrub Shrub			40.043056 N	79.175000 W

<sup>1</sup> Non-federally jurisdictional aquatic resources.

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**Legend**

**RESOURCES**

-  Delineated Palustrine Wetland
-  Direct Wetland Impact
-  Indirect Wetland Impact
-  Temporary Wetland Impact
-  Ephemeral Channel
-  Intermittent Stream
-  Perennial Stream
-  Vernal Pool
-  100-Year Floodplain
-  Archaeological Site

**Threatened & Endangered Species**

-  Known Locations of Fraser's Sedge
-  Potential Habitat for Longnose Sucker
-  Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

-  Stormwater Drainage Conveyance
-  Stormwater Control Basin

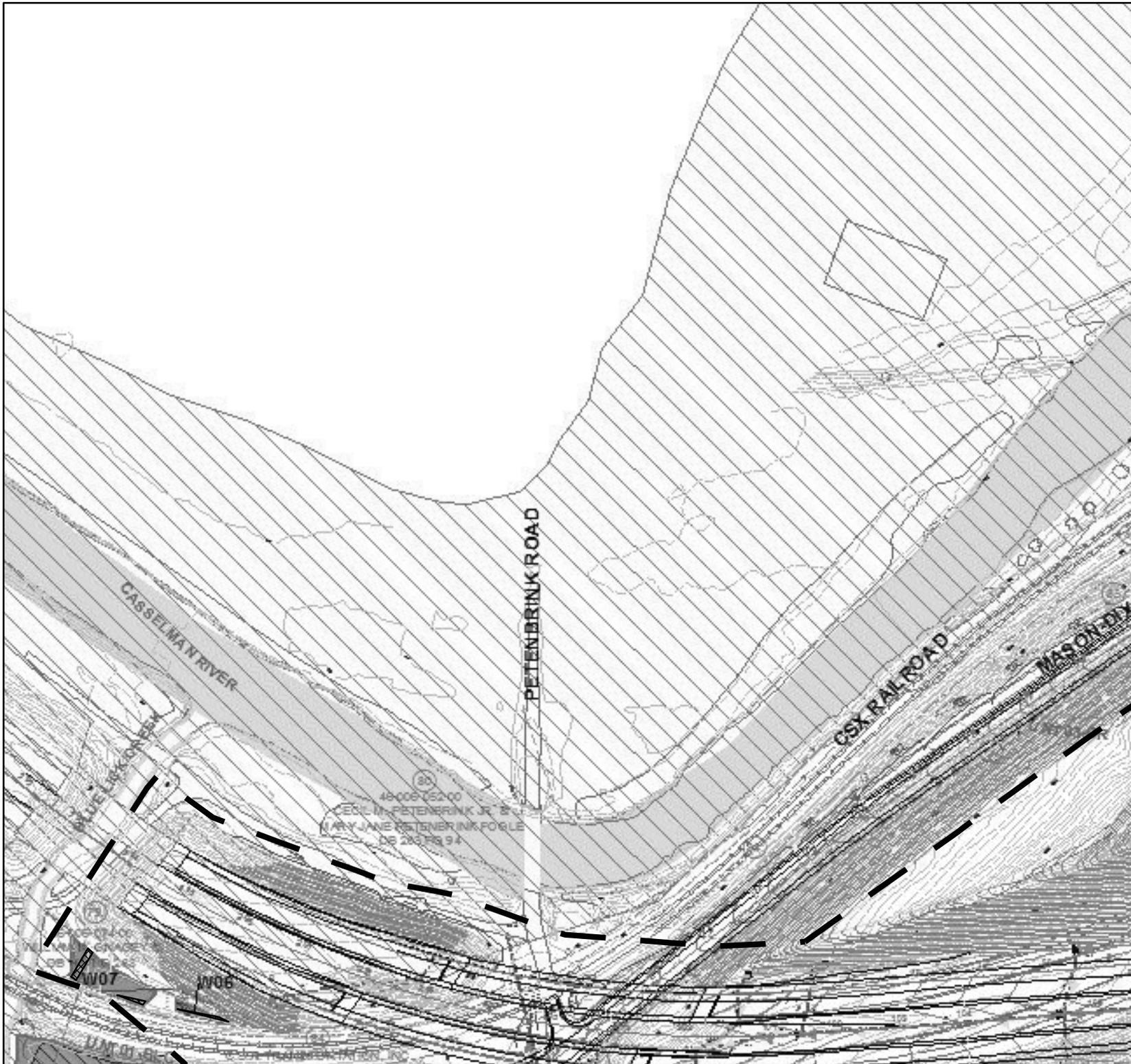
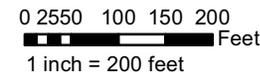
**PROPOSED ACTIVITY**

-  Roadway Pavement
-  Bridge
-  Culvert
- Limits of Earth Disturbance**
-  Limit of Fill
-  Limit of Cut
-  Stormwater Management Basin
-  Required Right-of-Way
-  Temp. Construction Easement
-  ROW for Mitigation Site
-  Proposed Contours
- Proposed Utility Easement**
-  Proposed Electricity
-  Proposed Gas
-  Proposed Water
-  Proposed Telephone

**EXISTING BASE MAPPING**

-  Swamp Creek Valley Historic District (Arrows point toward center of historic district)
-  Utility Lines
-  Building
-  Railroad
-  Unimproved Roads
-  Roadways
-  Property Lines
-  Parcel Identification Number
-  Parcel Identification Number No Property Take
-  Treeline
-  Contours

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Match to Sheet 03

Match to Sheet 02

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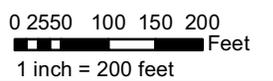


Match to Sheet 03

### Legend

- RESOURCES**
  - Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
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  - Perennial Stream
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  - Stormwater Drainage
  - Conveyance
  - Stormwater Control Basin
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Revised 12/19/12 jrg

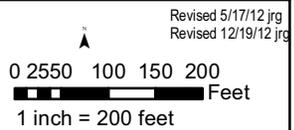


# JOINT PERMIT APPLICATION SITE PLANS

**SHEET**  
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- Legend**
- RESOURCES**
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**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
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**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
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**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage Conveyance
- Stormwater Control Basin

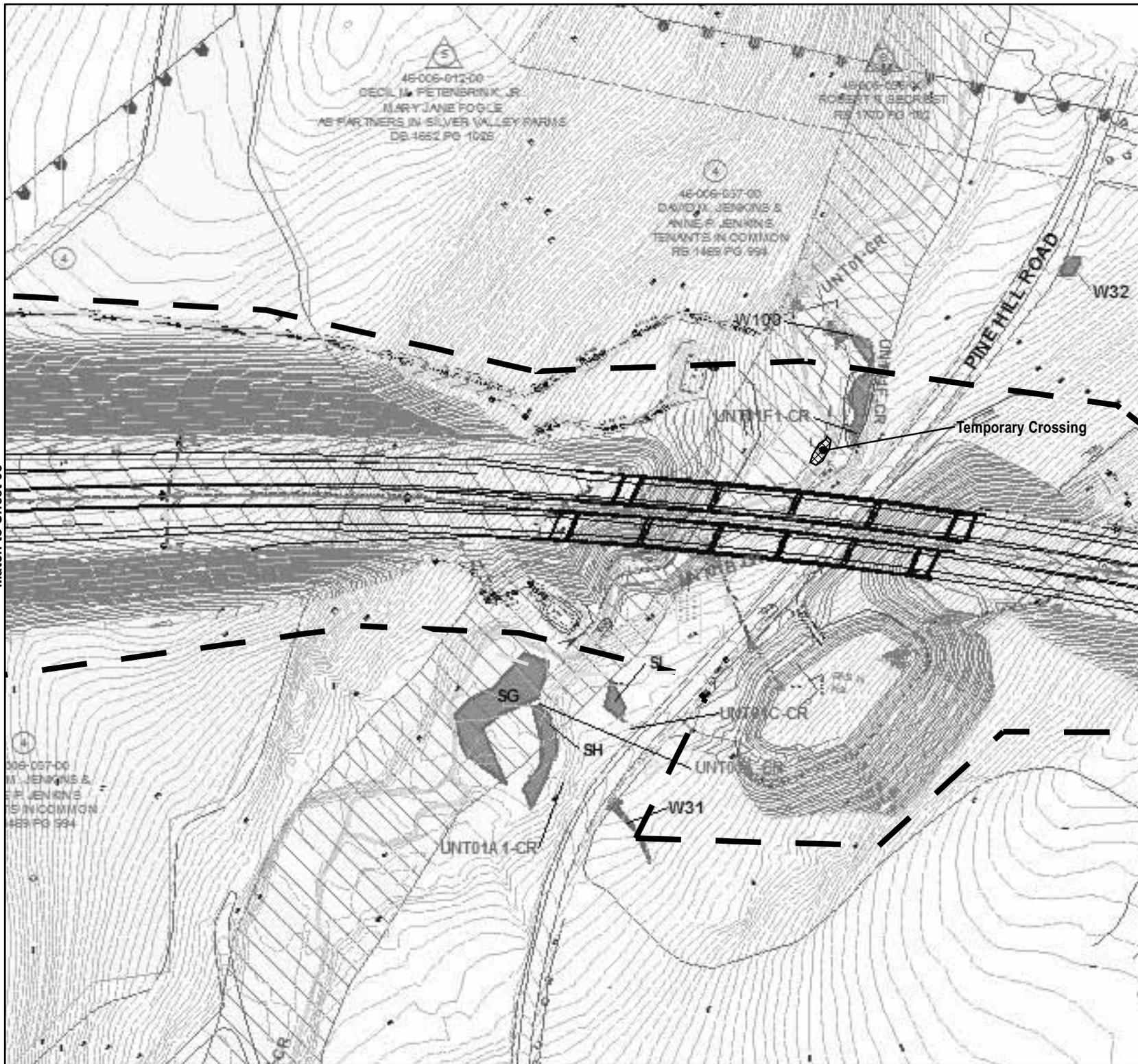
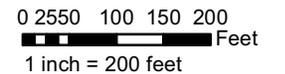
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
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**Legend**

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**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage
- Conveyance
- Stormwater Control Basin

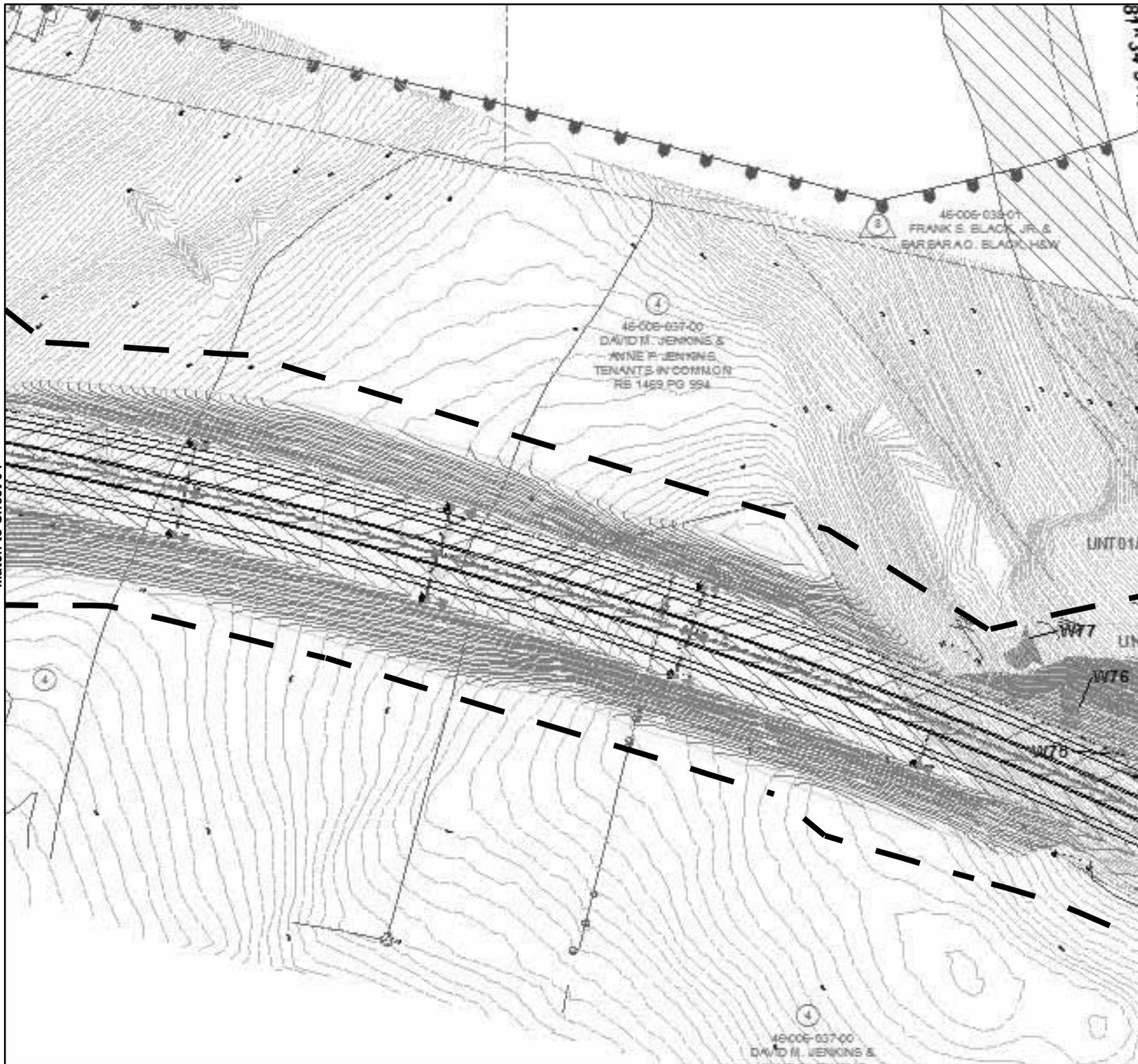
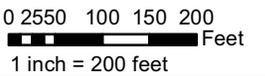
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
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Match to Sheet 06

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**Legend**

**RESOURCES**

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- Stormwater Drainage
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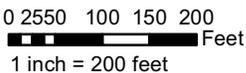
**PROPOSED ACTIVITY**

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- Bridge
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**EXISTING BASE MAPPING**

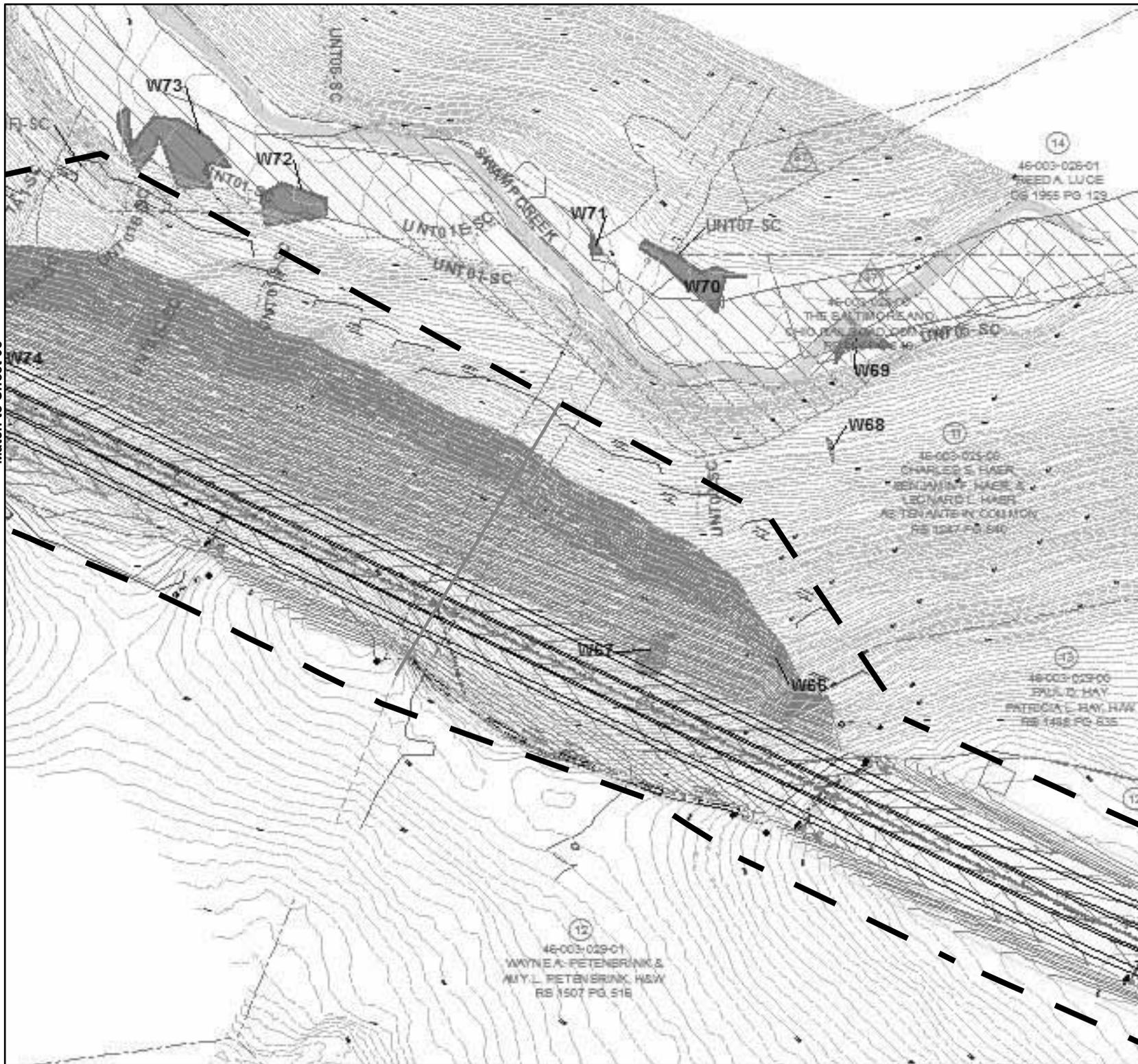
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Match to Sheet 05

Match to Sheet 07

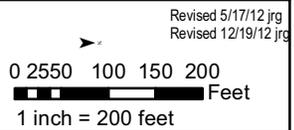
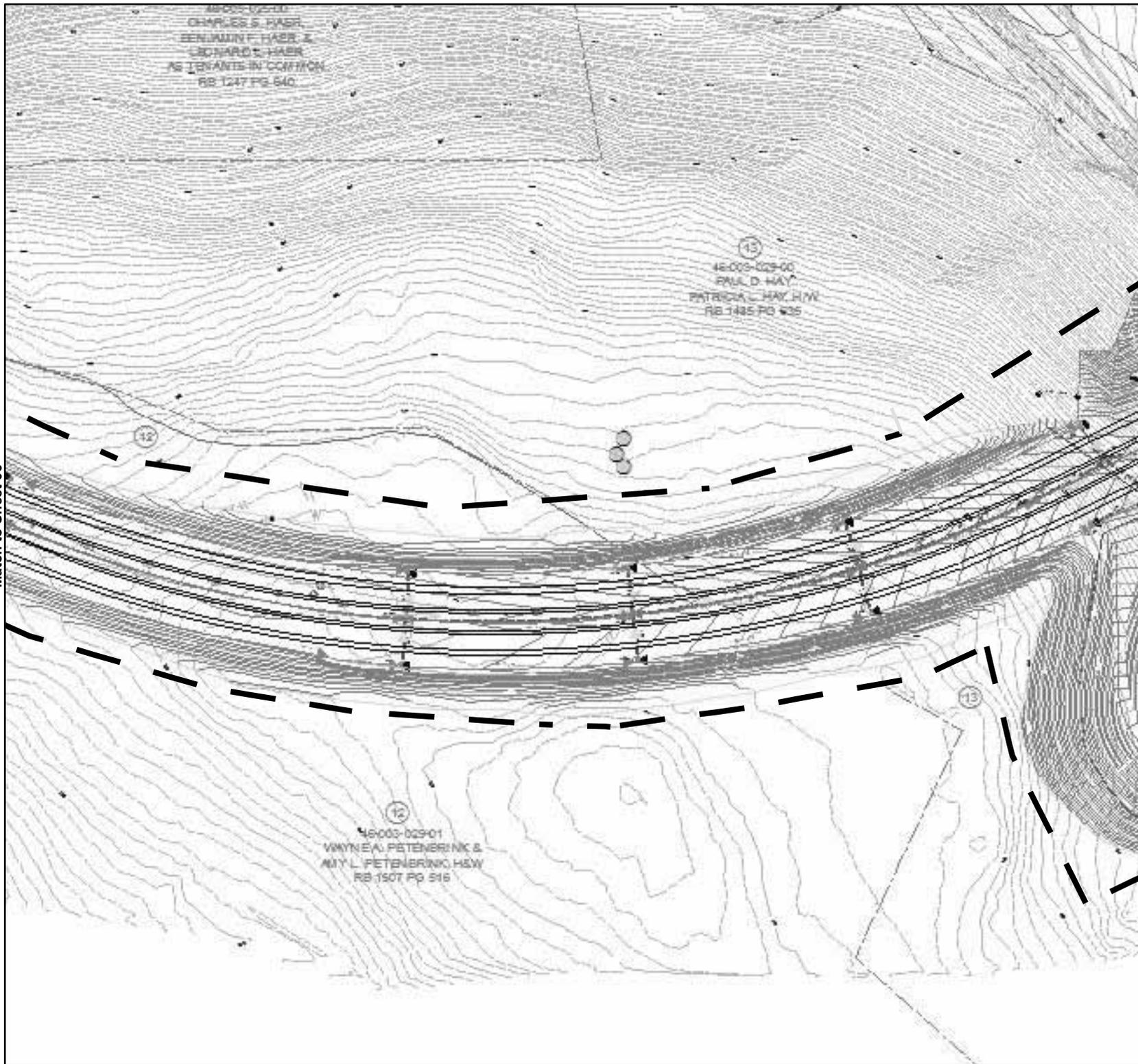


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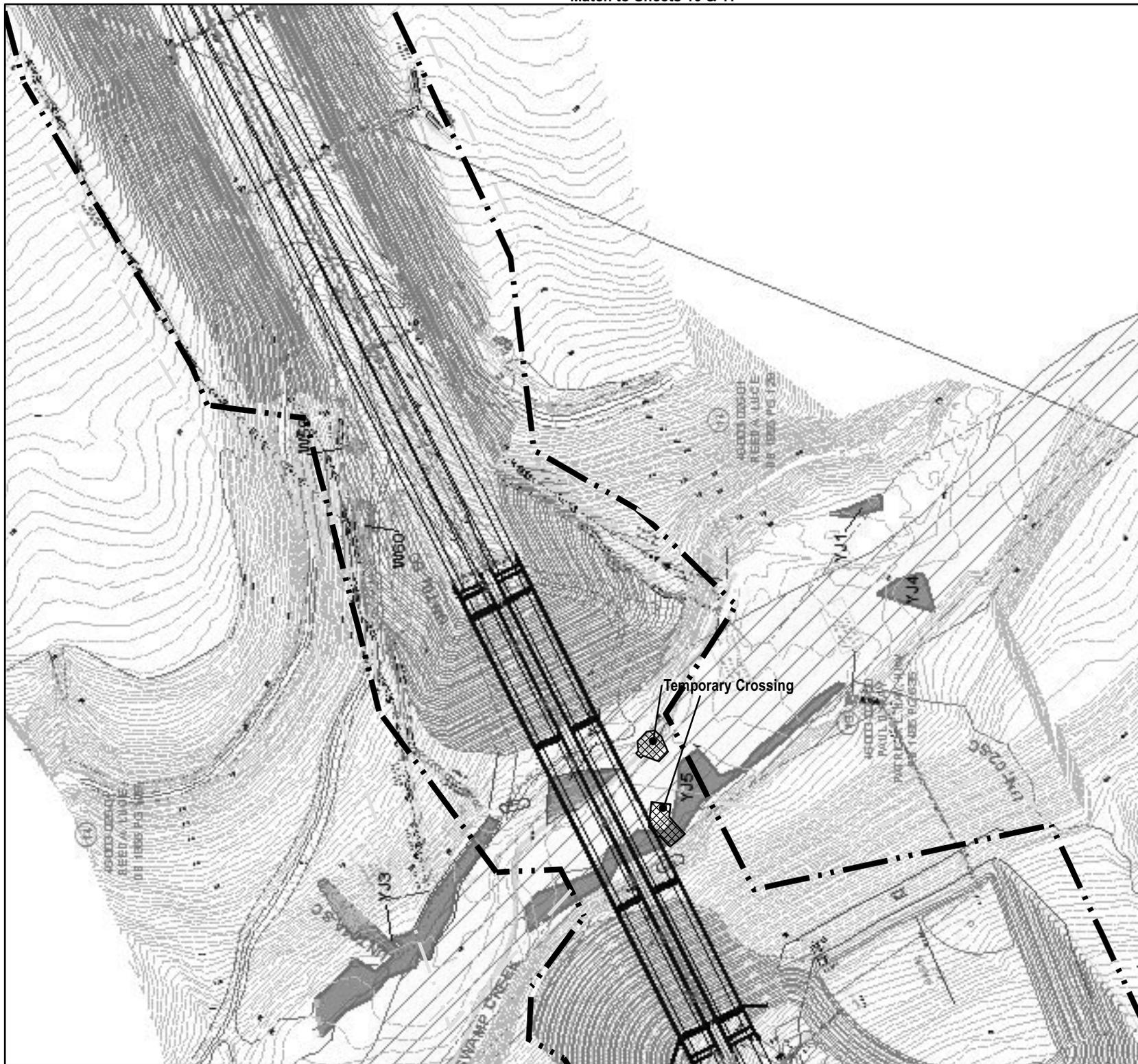
**Legend**

- RESOURCES**
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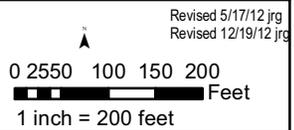


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JOINT PERMIT  
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SITE PLANS**

**SHEET  
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- Legend**
- RESOURCES**
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  - Stormwater Control Basin
  - PROPOSED ACTIVITY**
  - Roadway Pavement
  - Bridge
  - Culvert
  - Limits of Earth Disturbance**
  - Limit of Fill
  - Limit of Cut
  - Stormwater Management Basin
  - Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
  - Proposed Contours
  - Proposed Utility Easement**
  - Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
  - EXISTING BASE MAPPING**
  - Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - Parcel Identification Number No Property Take
  - Treeline
  - Contours



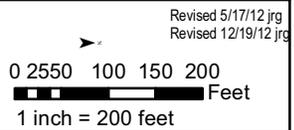
SR 6219 SECTION 020  
**JOINT PERMIT  
 APPLICATION  
 SITE PLANS**

**SHEET  
 9 of 36**



- Legend**
- RESOURCES**
- Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
  - Intermittent Stream
  - Perennial Stream
  - Vernal Pool
  - 100-Year Floodplain
  - Archaeological Site
- Threatened & Endangered Species**
- Known Locations of Fraser's Sedge
  - Potential Habitat for Longnose Sucker
  - Potential Habitat for Upland Sandpiper / Dickcissel
- EXISTING STORMWATER CONTROLS**
- Stormwater Drainage Conveyance
  - Stormwater Control Basin
- PROPOSED ACTIVITY**
- Roadway Pavement
  - Bridge
  - Culvert
  - Limits of Earth Disturbance
  - Limit of Fill
  - Limit of Cut
  - Stormwater Management Basin
  - Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
  - Proposed Contours
  - Proposed Utility Easement
  - Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
- EXISTING BASE MAPPING**
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - Parcel Identification Number No Property Take
  - Treeline
  - Contours

Match to Sheet 12



Match to Sheet 10

# SR 6219 SECTION 020 JOINT PERMIT APPLICATION SITE PLANS

## SHEET 10 of 36

### Legend

#### RESOURCES

-  Delineated Palustrine Wetland
-  Direct Wetland Impact
-  Indirect Wetland Impact
-  Temporary Wetland Impact
-  Ephemeral Channel
-  Intermittent Stream
-  Perennial Stream
-  Vernal Pool
-  100-Year Floodplain
-  Archaeological Site

#### Threatened & Endangered Species

-  Known Locations of Fraser's Sedge
-  Potential Habitat for Longnose Sucker
-  Potential Habitat for Upland Sandpiper / Dickcissel

#### EXISTING STORMWATER CONTROLS

-  Stormwater Drainage Conveyance
-  Stormwater Control Basin

#### PROPOSED ACTIVITY

-  Roadway Pavement
-  Bridge
-  Culvert

#### Limits of Earth Disturbance

-  Limit of Fill
-  Limit of Cut
-  Stormwater Management Basin

-  Required Right-of-Way
-  Temp. Construction Easement
-  ROW for Mitigation Site

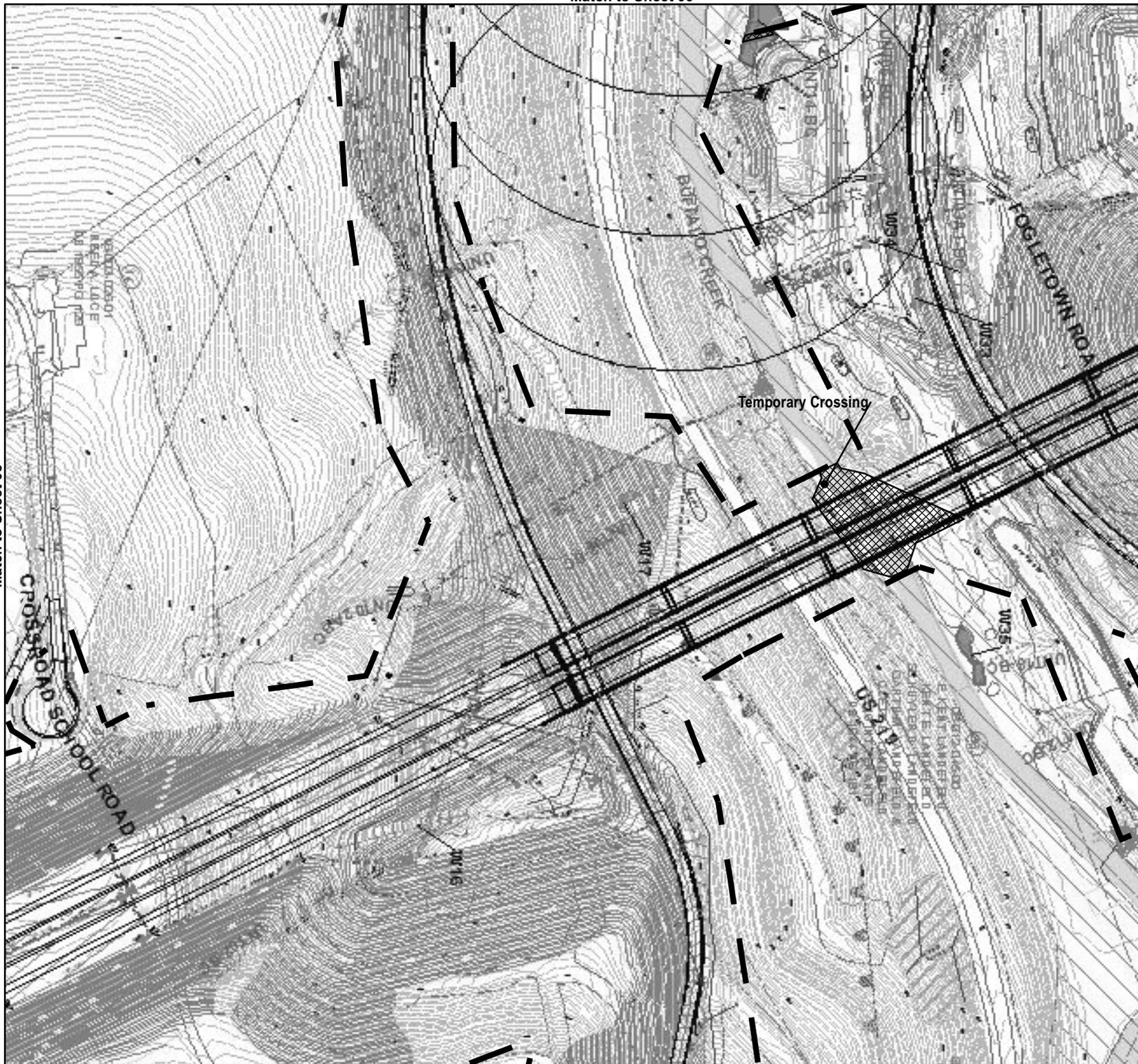
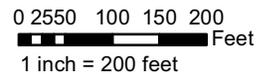
#### Proposed Contours

-  Proposed Utility Easement
-  Proposed Electricity
-  Proposed Gas
-  Proposed Water
-  Proposed Telephone

#### EXISTING BASE MAPPING

-  Swamp Creek Valley Historic District (Arrows point toward center of historic district)
-  Utility Lines
-  Building
-  Railroad
-  Unimproved Roads
-  Roadways
-  Property Lines
-  Parcel Identification Number
-  Parcel Identification Number No Property Take
-  Treeline
-  Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 08

Match to Sheet 12

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
11 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

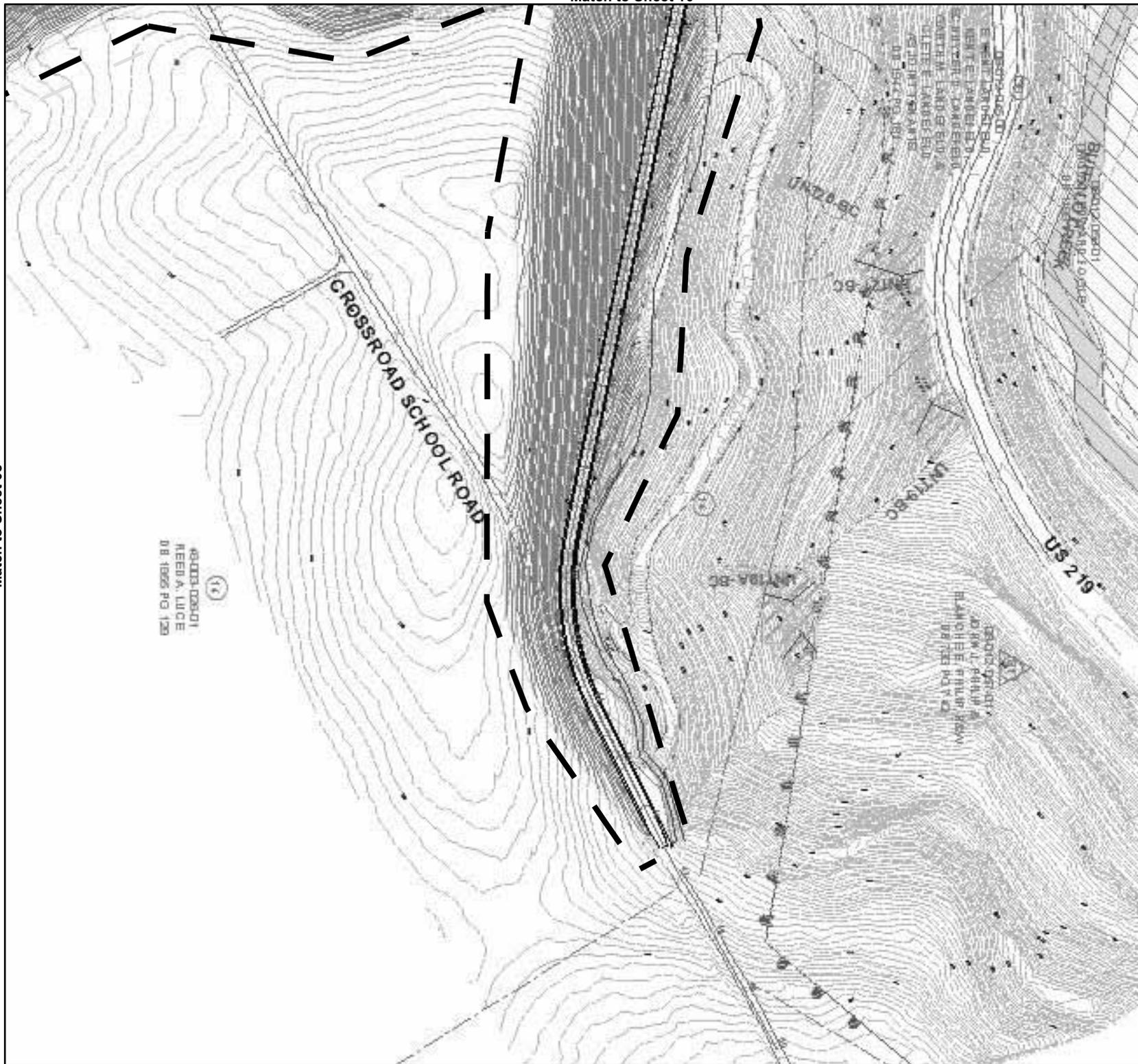
- Stormwater Drainage Conveyance
- Stormwater Control Basin

**PROPOSED ACTIVITY**

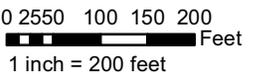
- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
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- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number No Property Take
- Treeline
- Contours



Revised 5/17/12 jrg  
Revised 12/19/12 jrg



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
12 of 36**

Match to Sheet 13

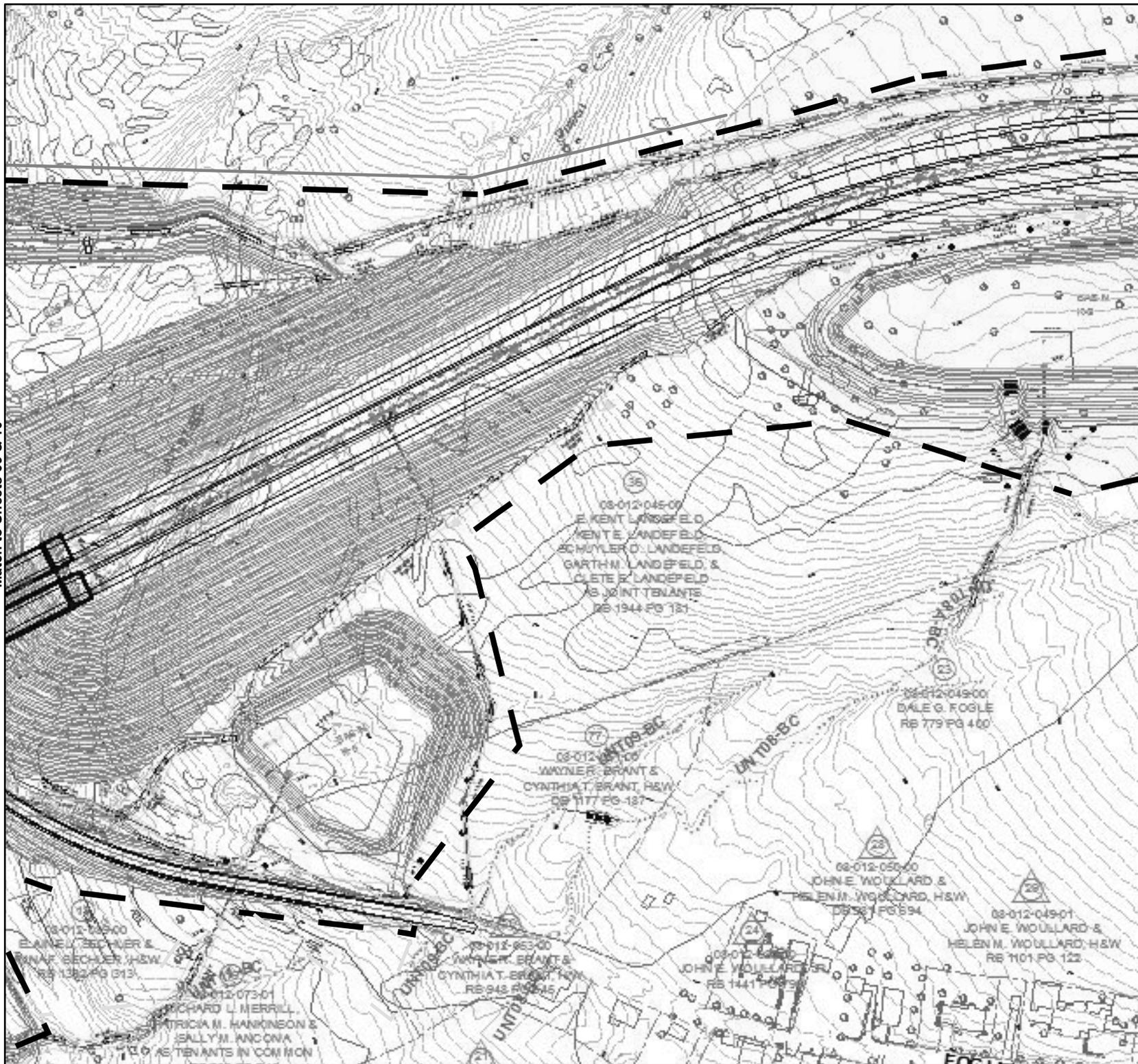
**Legend**

- RESOURCES**
- Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
  - Intermittent Stream
  - Perennial Stream
  - Vernal Pool
  - 100-Year Floodplain
  - Archaeological Site
- Threatened & Endangered Species**
- Known Locations of Fraser's Sedge
  - Potential Habitat for Longnose Sucker
  - Potential Habitat for Upland Sandpiper / Dickcissel
- EXISTING STORMWATER CONTROLS**
- Stormwater Drainage Conveyance
  - Stormwater Control Basin
- PROPOSED ACTIVITY**
- Roadway Pavement
  - Bridge
  - Culvert
  - Limits of Earth Disturbance
  - Limit of Fill
  - Limit of Cut
  - Stormwater Management Basin
  - Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
  - Proposed Contours
  - Proposed Utility Easement
  - Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
- EXISTING BASE MAPPING**
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - Parcel Identification Number No Property Take
  - Treeline
  - Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg

0 2550 100 150 200 Feet  
1 inch = 200 feet

Match to Sheets 09 & 10



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
13 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage
- Conveyance
- Stormwater Control Basin

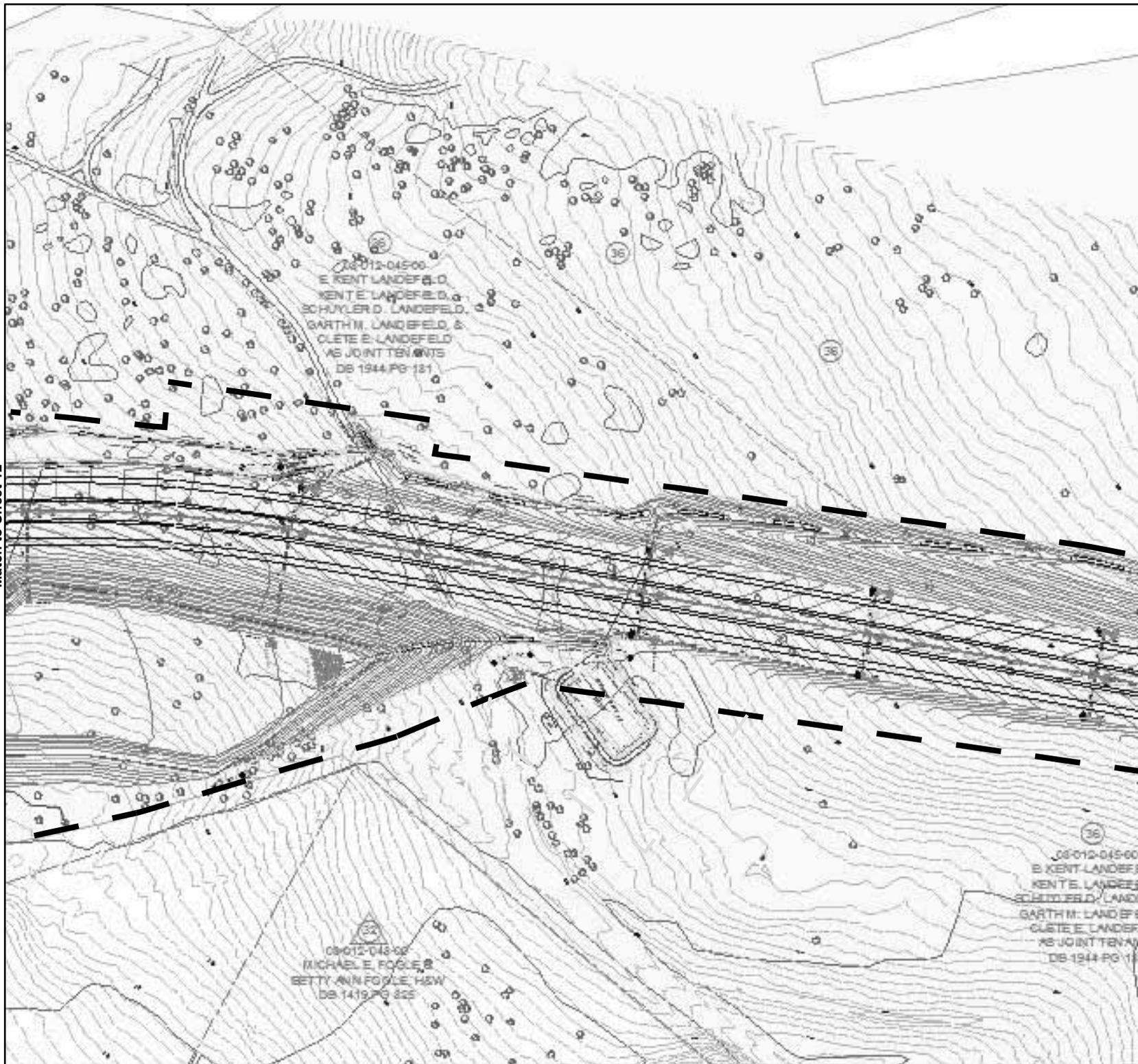
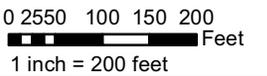
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- No Property Take
- Treeline
- Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 12

Match to Sheet 14

08-012-045-00  
E. KENT LANDEFELD,  
KENT E. LANDEFELD,  
SCHUYLER D. LANDEFELD,  
GARTH M. LANDEFELD, &  
CLETE E. LANDEFELD  
AS JOINT TENANTS  
DB 1944 PG 121

08-012-048-00  
MICHAEL E. FOGLE, &  
BETTY ANN FOGLE, H&W  
DB 1419 PG 225

08-012-045-00  
E. KENT LANDEFELD,  
KENT E. LANDEFELD,  
SCHUYLER D. LANDEFELD,  
GARTH M. LANDEFELD,  
CLETE E. LANDEFELD  
AS JOINT TENANTS  
DB 1944 PG 121

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
14 of 36**

**Legend**

**RESOURCES**

-  Delineated Palustrine Wetland
-  Direct Wetland Impact
-  Indirect Wetland Impact
-  Temporary Wetland Impact
-  Ephemeral Channel
-  Intermittent Stream
-  Perennial Stream
-  Vernal Pool
-  100-Year Floodplain
-  Archaeological Site

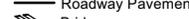
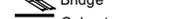
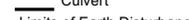
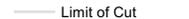
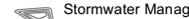
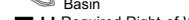
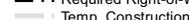
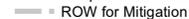
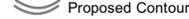
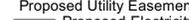
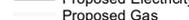
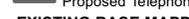
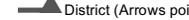
**Threatened & Endangered Species**

-  Known Locations of Fraser's Sedge
-  Potential Habitat for Longnose Sucker
-  Potential Habitat for Upland Sandpiper / Dickcissel

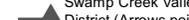
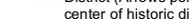
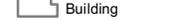
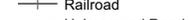
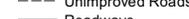
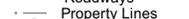
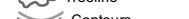
**EXISTING STORMWATER CONTROLS**

-  Stormwater Drainage
-  Conveyance
-  Stormwater Control Basin

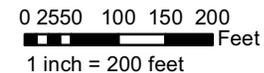
**PROPOSED ACTIVITY**

-  Roadway Pavement
-  Bridge
-  Culvert
-  Limits of Earth Disturbance
-  Limit of Fill
-  Limit of Cut
-  Stormwater Management Basin
-  Required Right-of-Way
-  Temp. Construction Easement
-  ROW for Mitigation Site
-  Proposed Contours
-  Proposed Utility Easement
-  Proposed Electricity
-  Proposed Gas
-  Proposed Water
-  Proposed Telephone

**EXISTING BASE MAPPING**

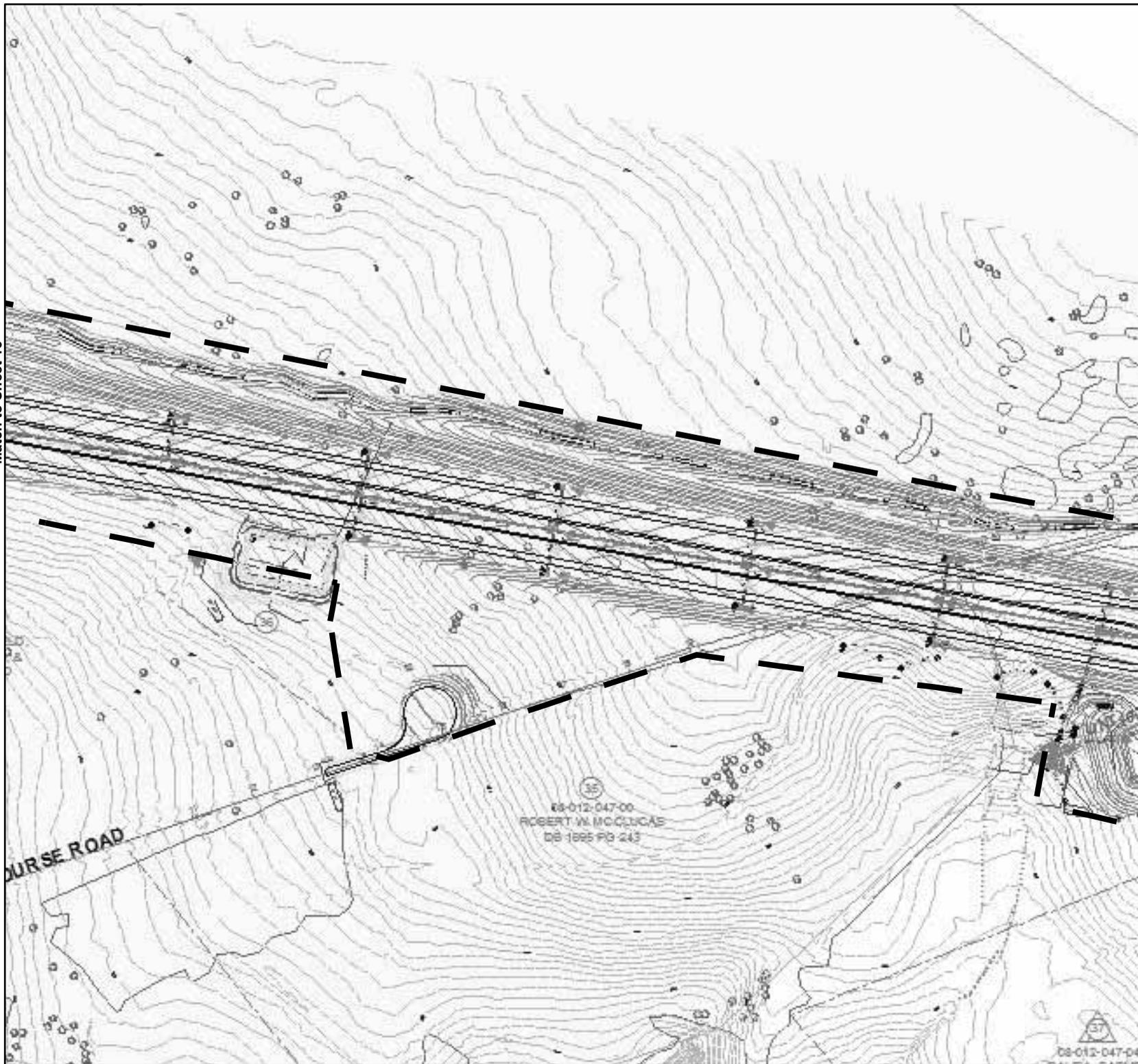
-  Swamp Creek Valley Historic District (Arrows point toward center of historic district)
-  Utility Lines
-  Building
-  Railroad
-  Unimproved Roads
-  Roadways
-  Property Lines
-  Parcel Identification Number
-  Parcel Identification Number No Property Take
-  Treeline
-  Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 13

Match to Sheet 15

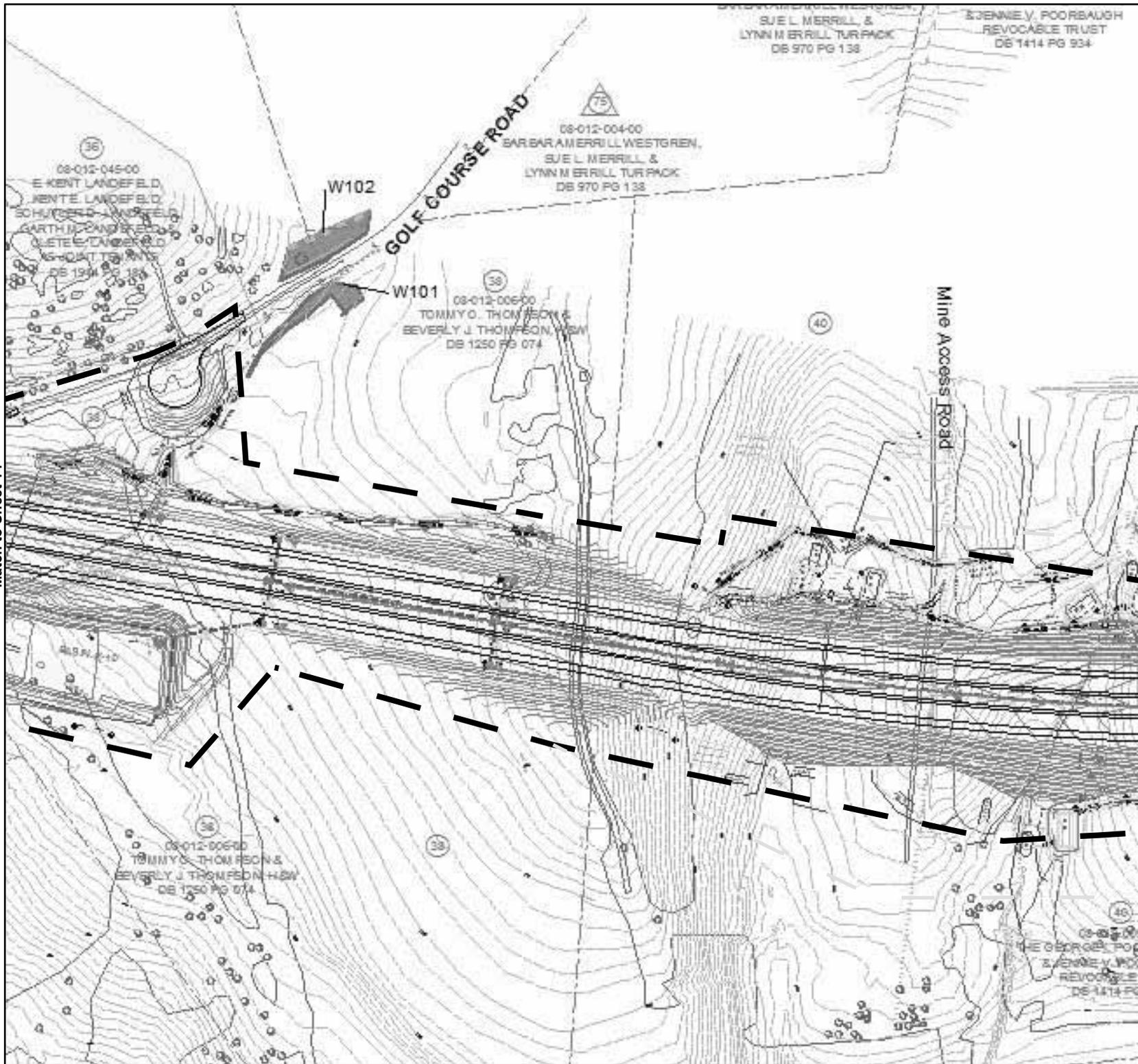


**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
15 of 36**

**Legend**

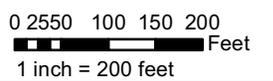
- RESOURCES**
- Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
  - Intermittent Stream
  - Perennial Stream
  - Vernal Pool
  - 100-Year Floodplain
  - Archaeological Site
- Threatened & Endangered Species**
- Known Locations of Fraser's Sedge
  - Potential Habitat for Longnose Sucker
  - Potential Habitat for Upland Sandpiper / Dickcissel
- EXISTING STORMWATER CONTROLS**
- Stormwater Drainage Conveyance
  - Stormwater Control Basin
- PROPOSED ACTIVITY**
- Roadway Pavement
  - Bridge
  - Culvert
  - Limits of Earth Disturbance
  - Limit of Fill
  - Limit of Cut
  - Stormwater Management Basin
  - Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
  - Proposed Contours
  - Proposed Utility Easement
  - Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
- EXISTING BASE MAPPING**
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - Parcel Identification Number No Property Take
  - Treeline
  - Contours



Match to Sheet 14

Match to Sheet 16

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
16 of 36**

**Legend**

**RESOURCES**

-  Delineated Palustrine Wetland
-  Direct Wetland Impact
-  Indirect Wetland Impact
-  Temporary Wetland Impact
-  Ephemeral Channel
-  Intermittent Stream
-  Perennial Stream
-  Vernal Pool
-  100-Year Floodplain
-  Archaeological Site

**Threatened & Endangered Species**

-  Known Locations of Fraser's Sedge
-  Potential Habitat for Longnose Sucker
-  Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

-  Stormwater Drainage
-  Conveyance
-  Stormwater Control Basin

**PROPOSED ACTIVITY**

-  Roadway Pavement
-  Bridge
-  Culvert
-  Limits of Earth Disturbance
-  Limit of Fill
-  Limit of Cut
-  Stormwater Management Basin

**Proposed Right-of-Way**

-  Temp. Construction Easement
-  ROW for Mitigation Site

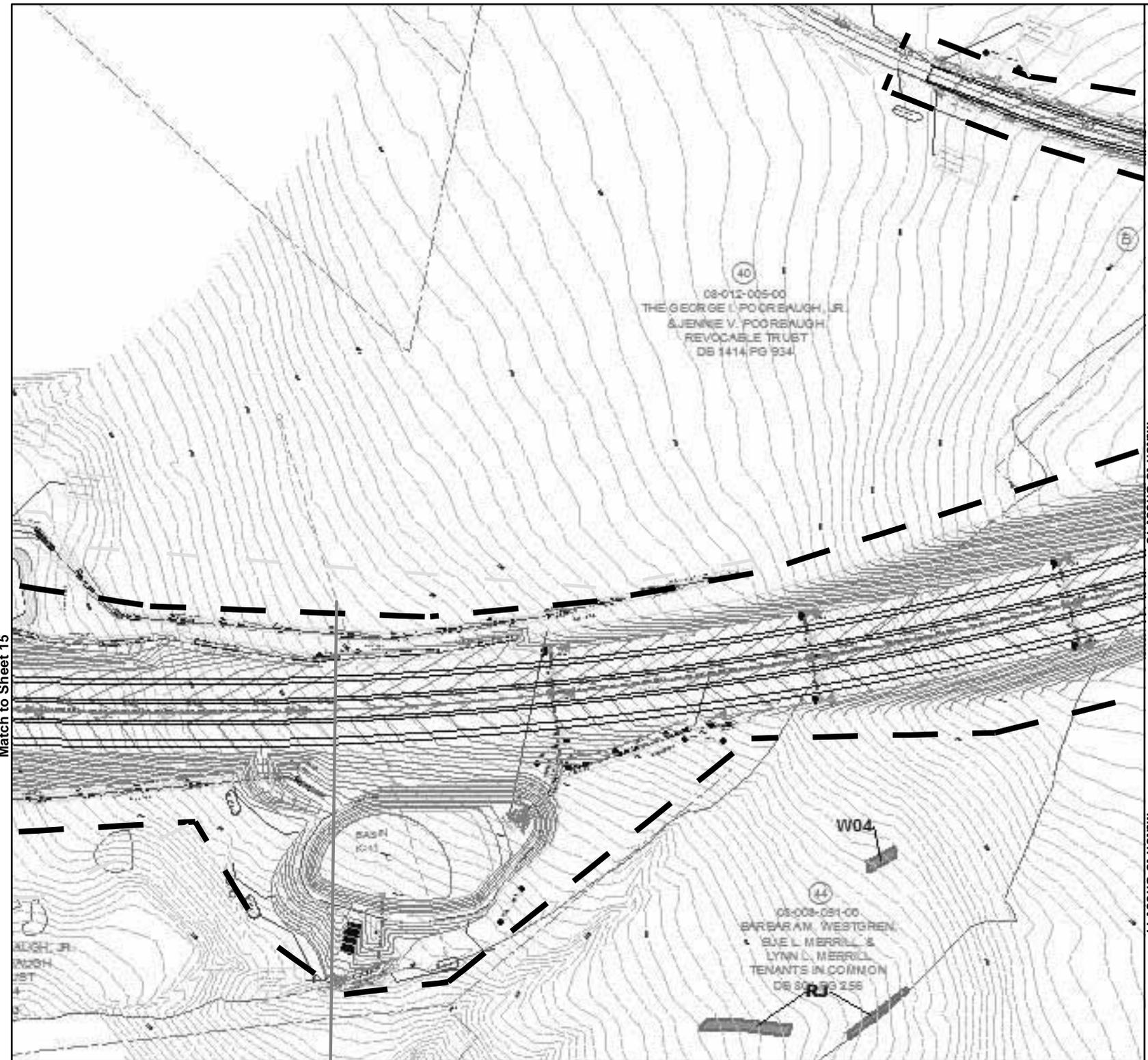
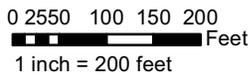
**Proposed Contours**

-  Proposed Contours
-  Proposed Utility Easement
-  Proposed Electricity
-  Proposed Gas
-  Proposed Water
-  Proposed Telephone

**EXISTING BASE MAPPING**

-  Swamp Creek Valley Historic District (Arrows point toward center of historic district)
-  Utility Lines
-  Building
-  Railroad
-  Unimproved Roads
-  Roadways
-  Property Lines
-  Parcel Identification Number
-  No Property Take
-  Treeline
-  Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 17

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
17 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

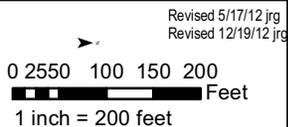
- Stormwater Drainage Conveyance
- Stormwater Control Basin

**PROPOSED ACTIVITY**

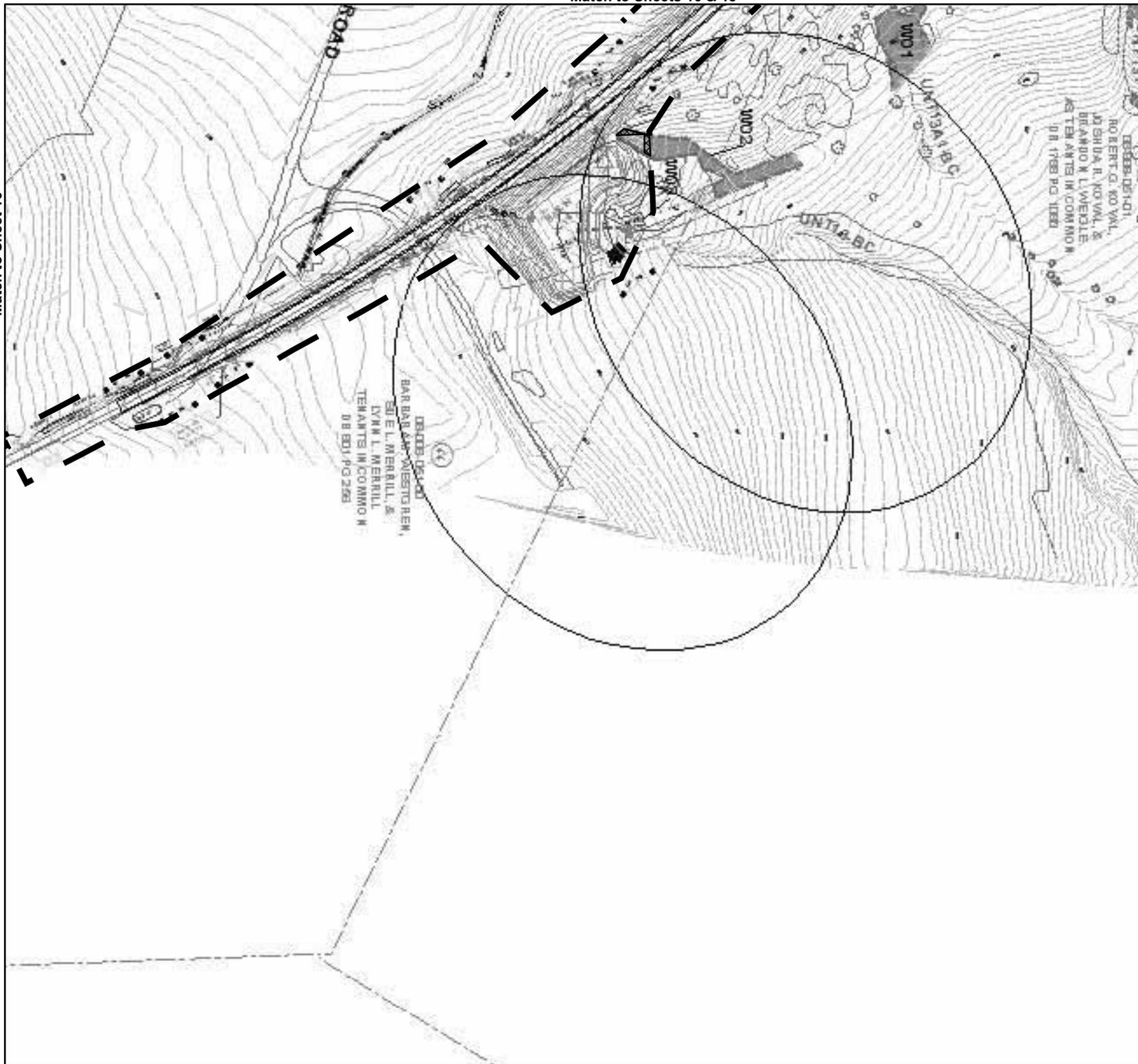
- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number No Property Take
- Treeline
- Contours



Match to Sheet 16



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
18 of 36**

**Legend**

**RESOURCES**

-  Delineated Palustrine Wetland
-  Direct Wetland Impact
-  Indirect Wetland Impact
-  Temporary Wetland Impact
-  Ephemeral Channel
-  Intermittent Stream
-  Perennial Stream
-  Vernal Pool
-  100-Year Floodplain
-  Archaeological Site

**Threatened & Endangered Species**

-  Known Locations of Fraser's Sedge
-  Potential Habitat for Longnose Sucker
-  Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

-  Stormwater Drainage Conveyance
-  Stormwater Control Basin

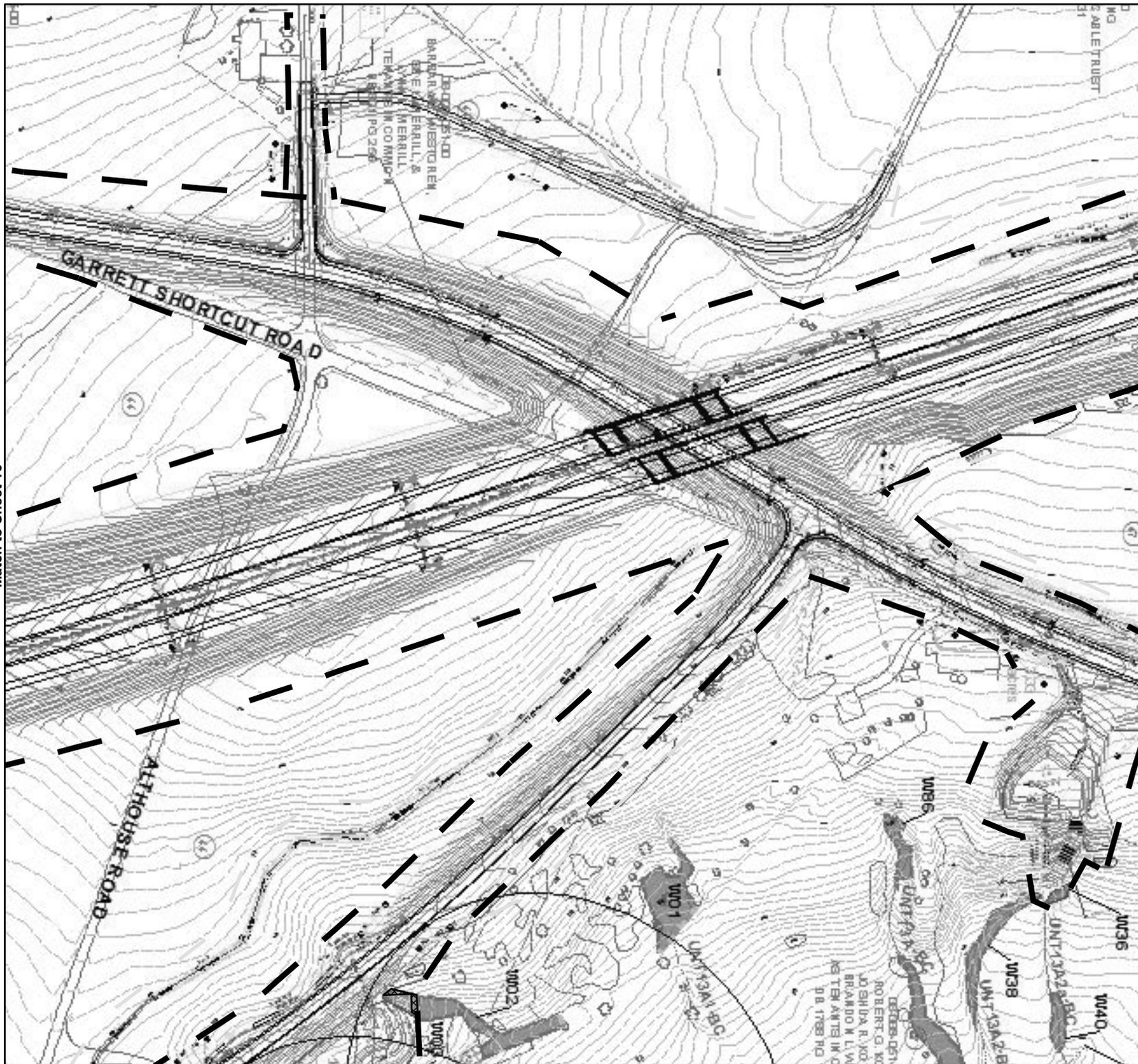
**PROPOSED ACTIVITY**

-  Roadway Pavement
-  Bridge
-  Culvert
- Limits of Earth Disturbance**
-  Limit of Fill
-  Limit of Cut
-  Stormwater Management Basin
-  Required Right-of-Way
-  Temp. Construction Easement
-  ROW for Mitigation Site
-  Proposed Contours
-  Proposed Utility Easement
-  Proposed Electricity
-  Proposed Gas
-  Proposed Water
-  Proposed Telephone

**EXISTING BASE MAPPING**

-  Swamp Creek Valley Historic District (Arrows point toward center of historic district)
-  Utility Lines
-  Building
-  Railroad
-  Unimproved Roads
-  Roadways
-  Property Lines
-  Parcel Identification Number
-  No Property Take
-  Treeline
-  Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 19

Match to Sheet 16

Match to Sheet 17

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
19 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage
- Conveyance
- Stormwater Control Basin

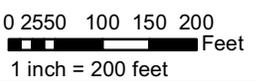
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

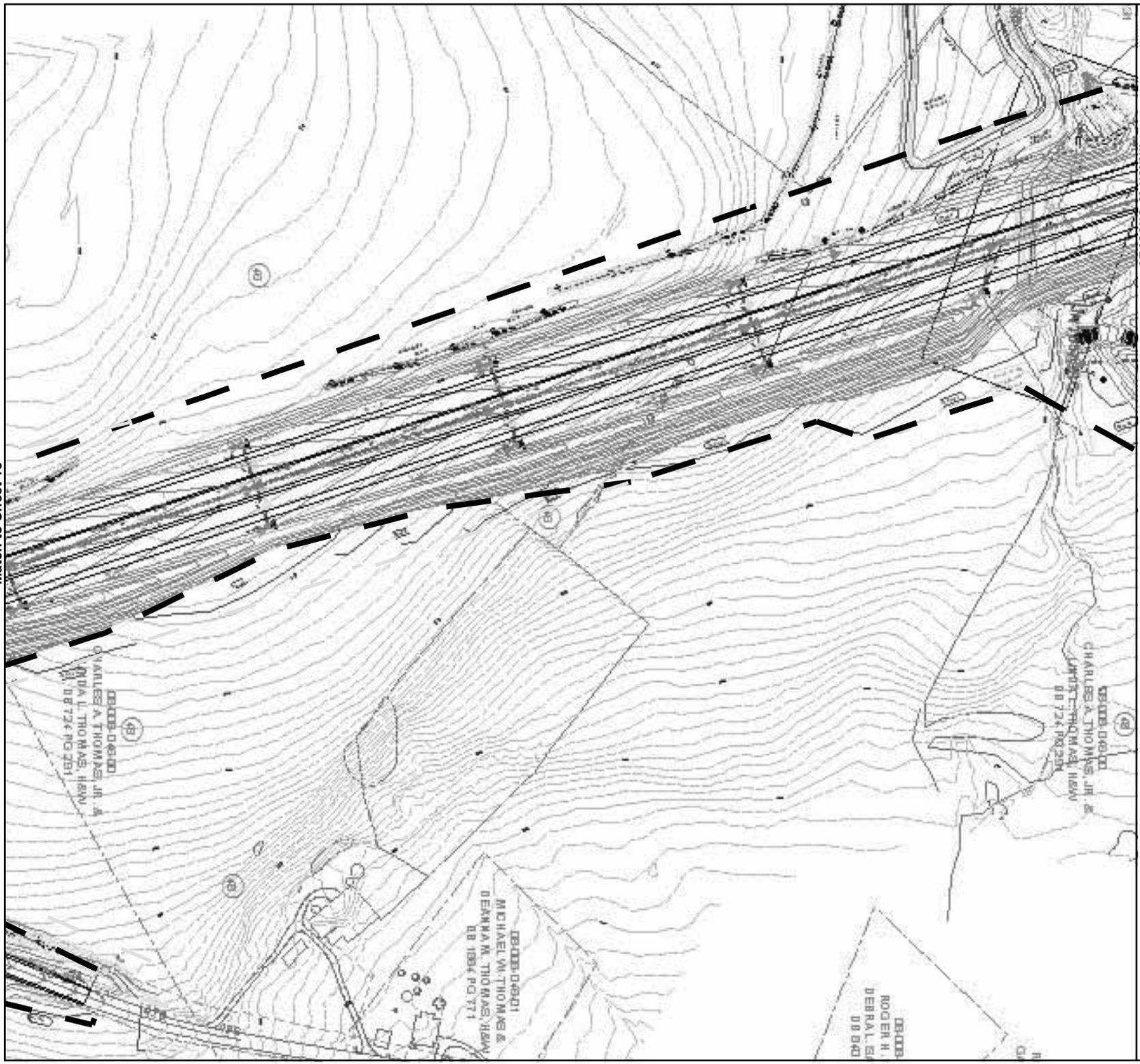
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- No Property Take
- Treeline
- Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 20

Match to Sheet 18



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
20 of 36**

**Legend**

**RESOURCES**

-  Delineated Palustrine Wetland
-  Direct Wetland Impact
-  Indirect Wetland Impact
-  Temporary Wetland Impact
-  Ephemeral Channel
-  Intermittent Stream
-  Perennial Stream
-  Vernal Pool
-  100-Year Floodplain
-  Archaeological Site

**Threatened & Endangered Species**

-  Known Locations of Fraser's Sedge
-  Potential Habitat for Longnose Sucker
-  Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

-  Stormwater Drainage
-  Conveyance
-  Stormwater Control Basin

**PROPOSED ACTIVITY**

-  Roadway Pavement
-  Bridge
-  Culvert
-  Limits of Earth Disturbance
-  Limit of Fill
-  Limit of Cut
-  Stormwater Management Basin

-  Required Right-of-Way
-  Temp. Construction Easement
-  ROW for Mitigation Site

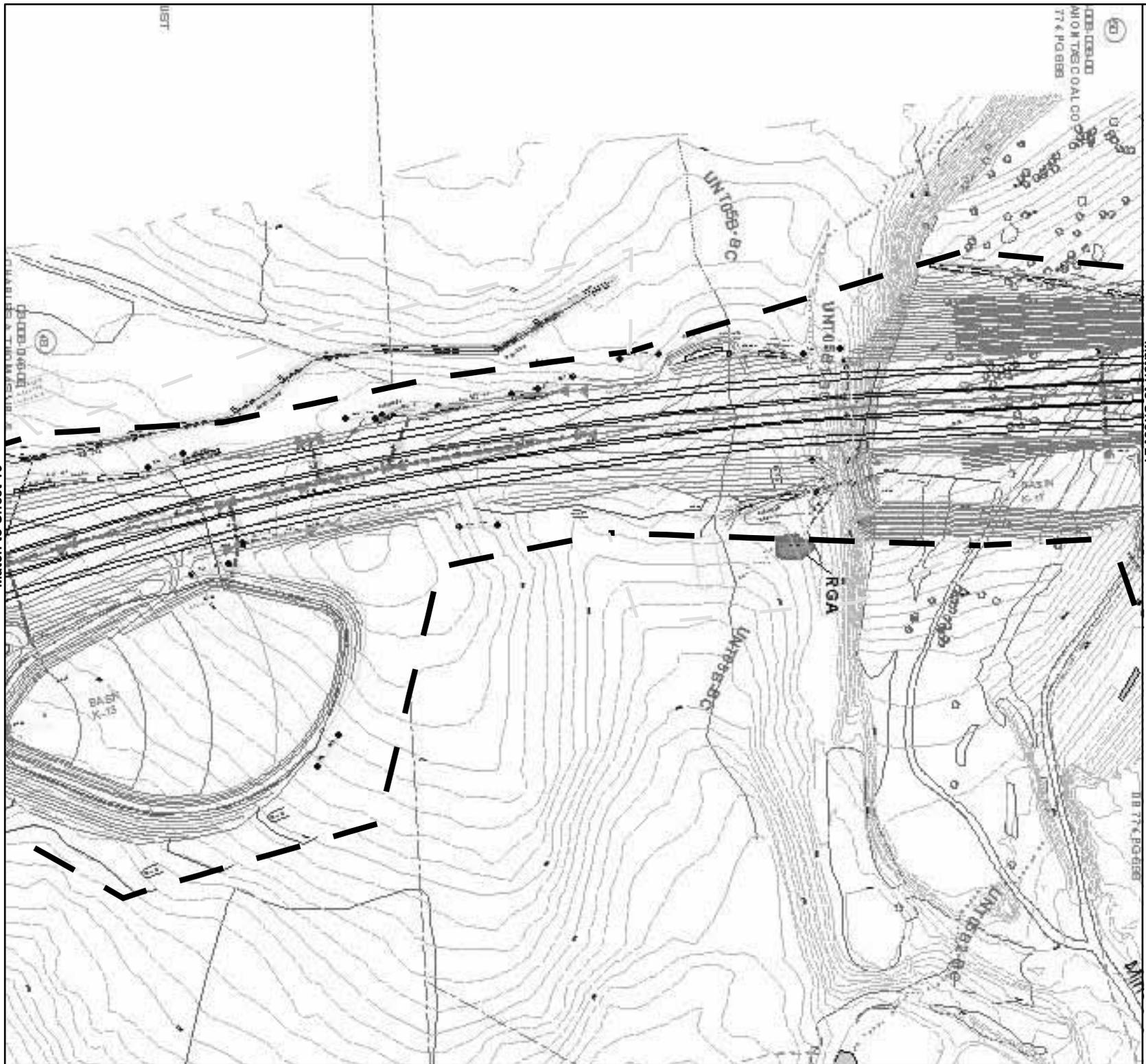
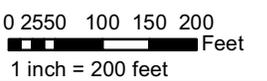
**Proposed Contours**

-  Proposed Contours
-  Proposed Utility Easement
-  Proposed Electricity
-  Proposed Gas
-  Proposed Water
-  Proposed Telephone

**EXISTING BASE MAPPING**

-  Swamp Creek Valley Historic District (Arrows point toward center of historic district)
-  Utility Lines
-  Building
-  Railroad
-  Unimproved Roads
-  Roadways
-  Property Lines
-  Parcel Identification Number
-  Parcel Identification Number No Property Take
-  Treeline
-  Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 19

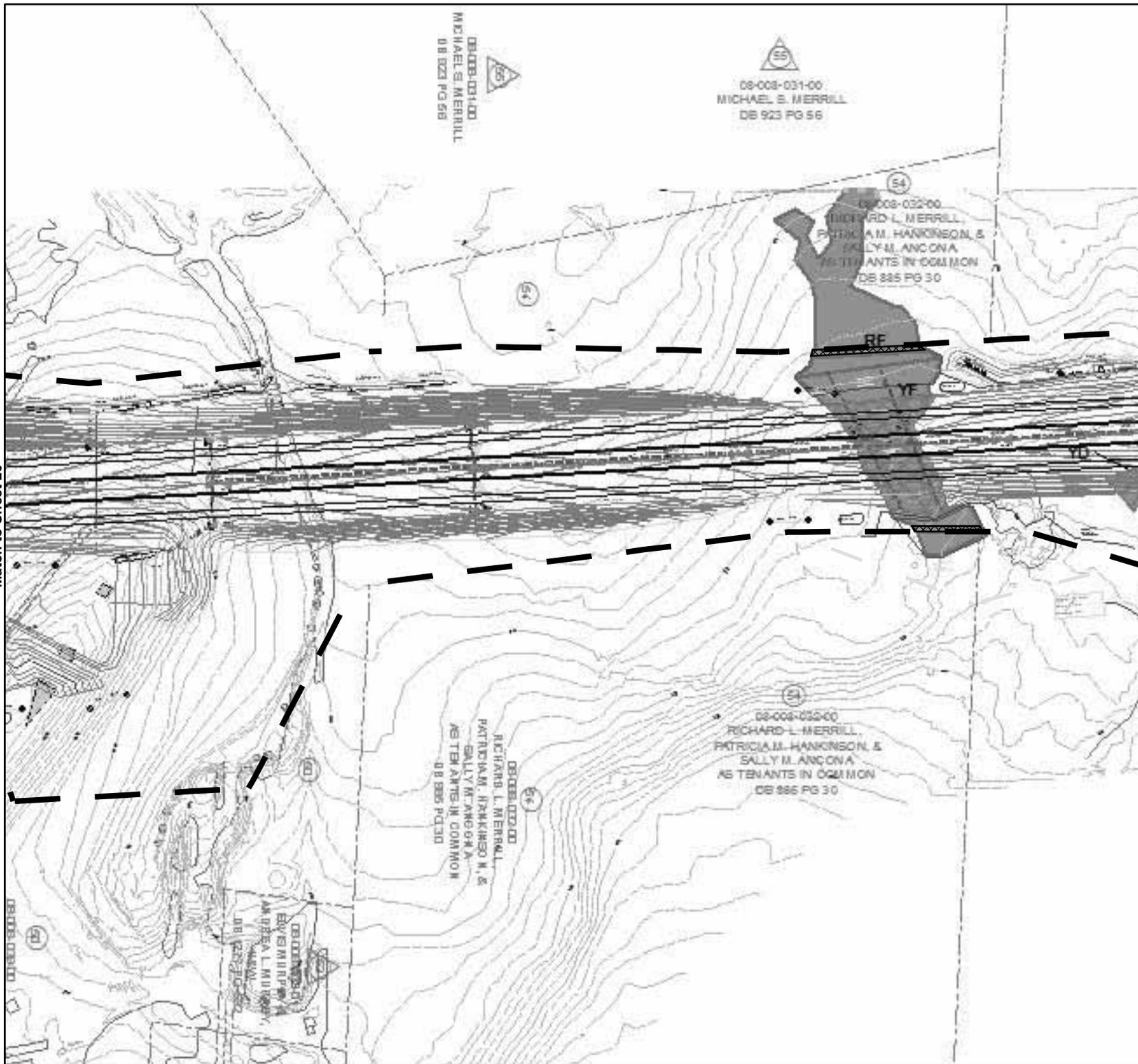
Match to Sheet 21

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

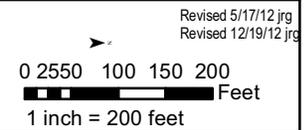
**SHEET  
21 of 36**

- Legend**
- RESOURCES**
- Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
  - Intermittent Stream
  - Perennial Stream
  - Vernal Pool
  - 100-Year Floodplain
  - Archaeological Site
- Threatened & Endangered Species**
- Known Locations of Fraser's Sedge
  - Potential Habitat for Longnose Sucker
  - Potential Habitat for Upland Sandpiper / Dickcissel
- EXISTING STORMWATER CONTROLS**
- Stormwater Drainage Conveyance
  - Stormwater Control Basin
- PROPOSED ACTIVITY**
- Roadway Pavement
  - Bridge
  - Culvert
- Limits of Earth Disturbance**
- Limit of Fill
  - Limit of Cut
- Stormwater Management Basin**
- Stormwater Management Basin
- Limits of Earth Disturbance**
- Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
- Proposed Contours**
- Proposed Contours
- Proposed Utility Easement**
- Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
- EXISTING BASE MAPPING**
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - Parcel Identification Number No Property Take
  - Treeline
  - Contours

Match to Sheet 22



Match to Sheet 20



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
22 of 36**

08-008-030-00  
CYNTHIA M. COLEMAN DB 923 PG 42  
JEANNE M. COLEMAN DB 923 PG 28  
PATRICIA M. HANSON, ET AL DB 902 PG 256  
MICHAEL S. MERRILL DB 923 PG 56  
WILLIAM A. MERRILL III DB 923 PG 14

58  
08-008-027-00  
MAXINE E. LEHMAN  
DEANA LEHMAN  
DB 1969 PG 8

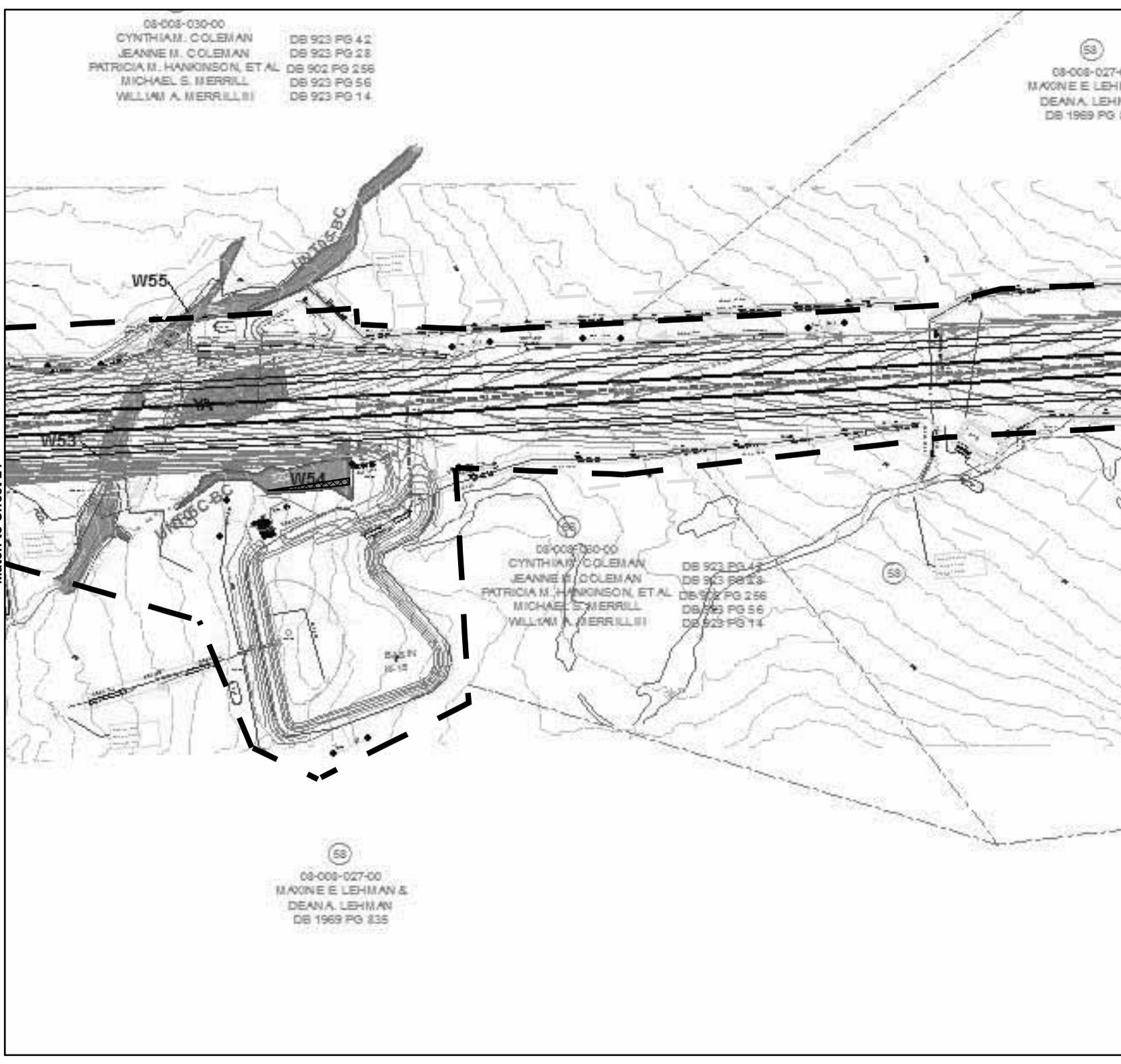
58  
08-008-030-00  
CYNTHIA M. COLEMAN DB 923 PG 42  
JEANNE M. COLEMAN DB 923 PG 28  
PATRICIA M. HANSON, ET AL DB 902 PG 256  
MICHAEL S. MERRILL DB 923 PG 56  
WILLIAM A. MERRILL III DB 923 PG 14

58  
08-008-027-00  
MAXINE E. LEHMAN &  
DEANA LEHMAN  
DB 1969 PG 8

- Legend**
- RESOURCES**
- Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
  - Intermittent Stream
  - Perennial Stream
  - Vernal Pool
  - 100-Year Floodplain
  - Archaeological Site
- Threatened & Endangered Species**
- Known Locations of Fraser's Sedge
  - Potential Habitat for Longnose Sucker
  - Potential Habitat for Upland Sandpiper / Dickcissel
- EXISTING STORMWATER CONTROLS**
- Stormwater Drainage
  - Conveyance
  - Stormwater Control Basin
- PROPOSED ACTIVITY**
- Roadway Pavement
  - Bridge
  - Culvert
  - Limits of Earth Disturbance
  - Limit of Fill
  - Limit of Cut
  - Stormwater Management Basin
  - Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
  - Proposed Contours
  - Proposed Utility Easement
  - Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
- EXISTING BASE MAPPING**
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - No Property Take
  - Treeline
  - Contours

Match to Sheet 23

Match to Sheet 21



Revised 5/17/12 jrg  
Revised 12/19/12 jrg

0 250 100 150 200  
Feet

1 inch = 200 feet

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
23 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage
- Conveyance
- Stormwater Control Basin

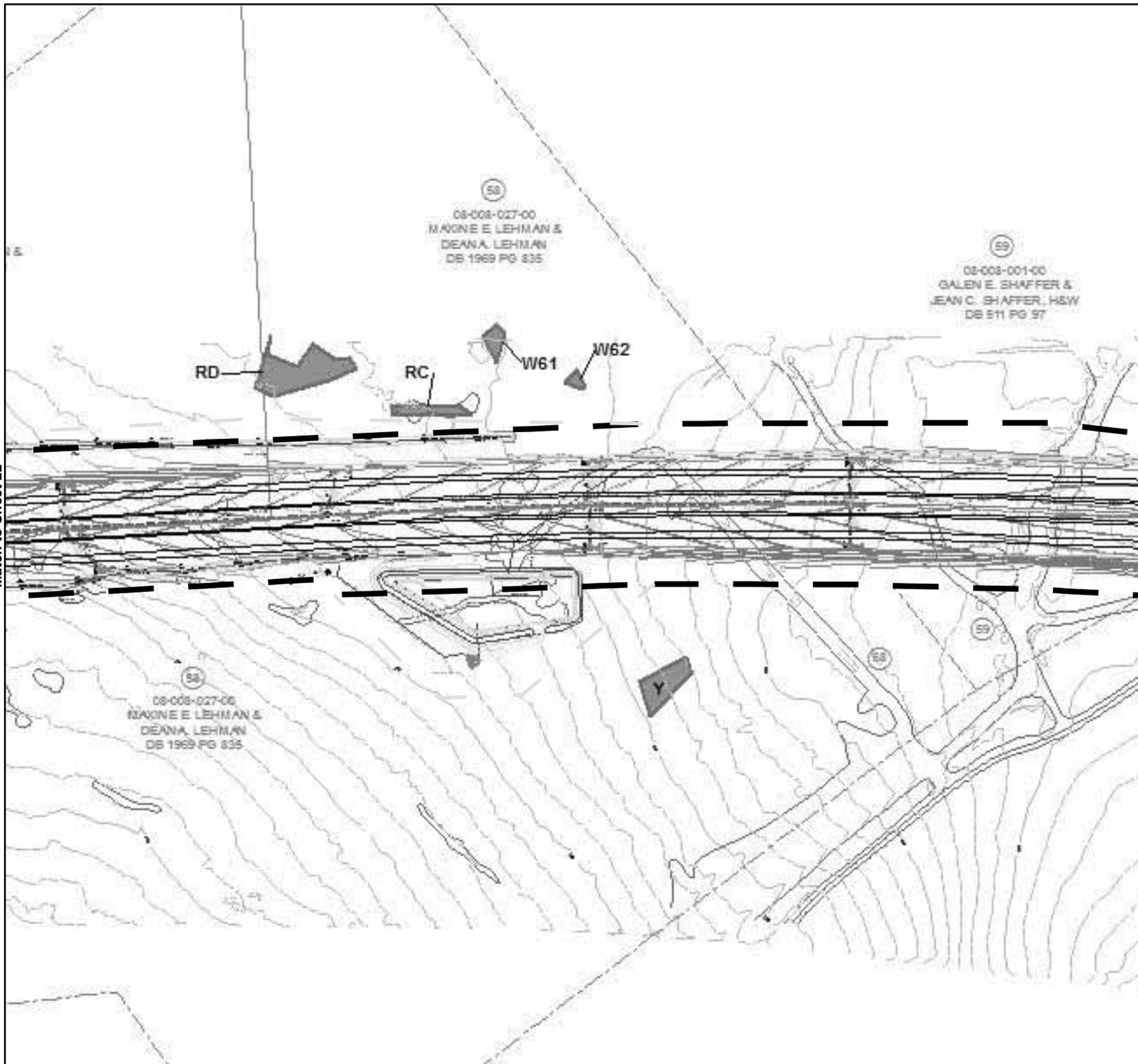
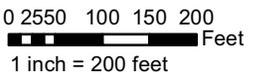
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number No Property Take
- Treeline
- Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
24 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

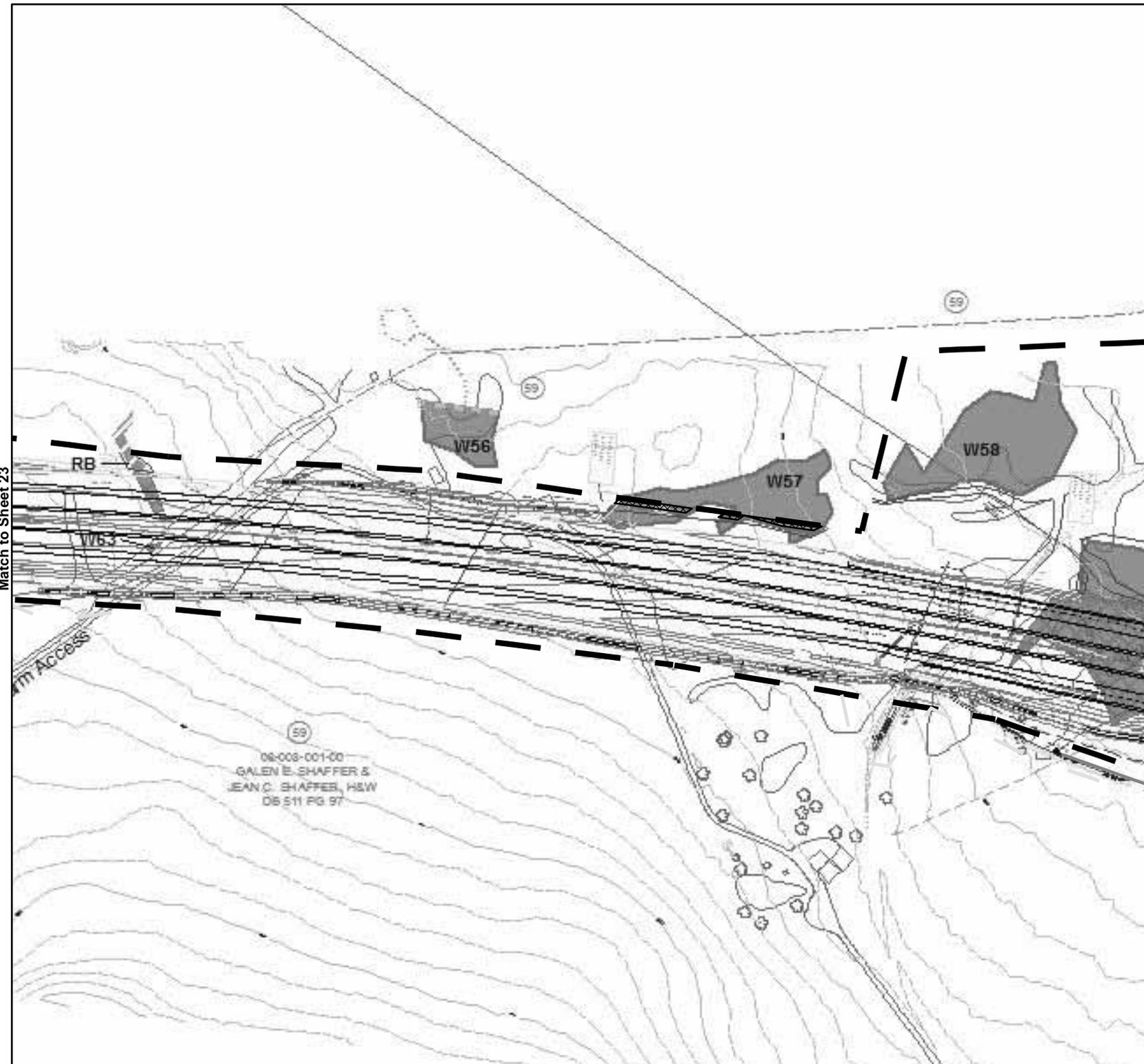
- Stormwater Drainage Conveyance
- Stormwater Control Basin

**PROPOSED ACTIVITY**

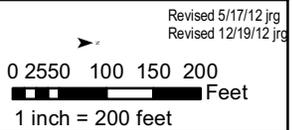
- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number No Property Take
- Treeline
- Contours



06-008-001-00  
GALEN E. SHAFFER &  
JEAN C. SHAFFER, H&W  
06 511 PG 97



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
25 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage Conveyance
- Stormwater Control Basin

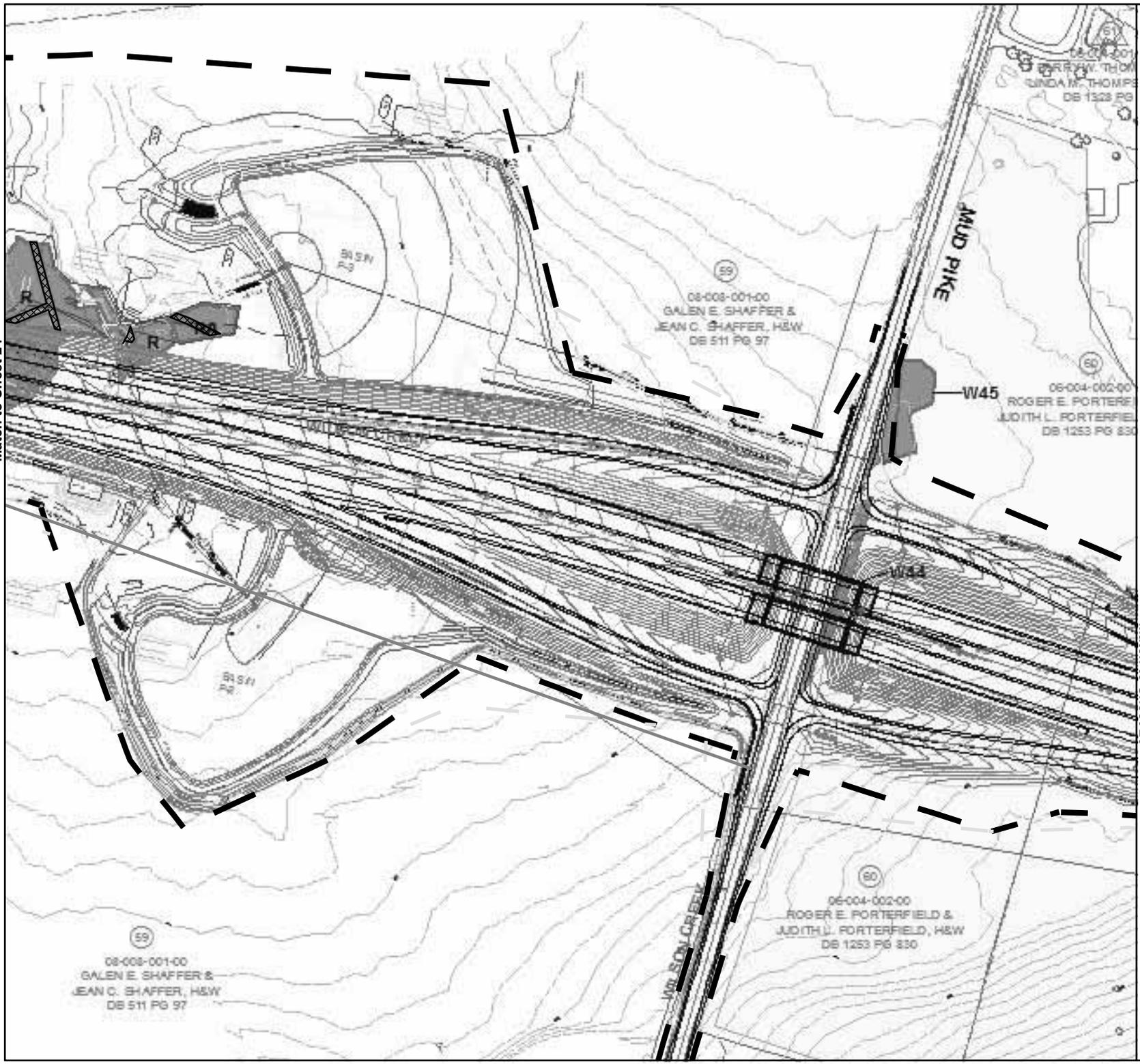
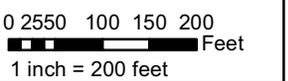
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number No Property Take
- Treeline
- Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 24

Match to Sheet 26

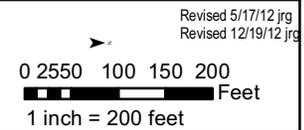
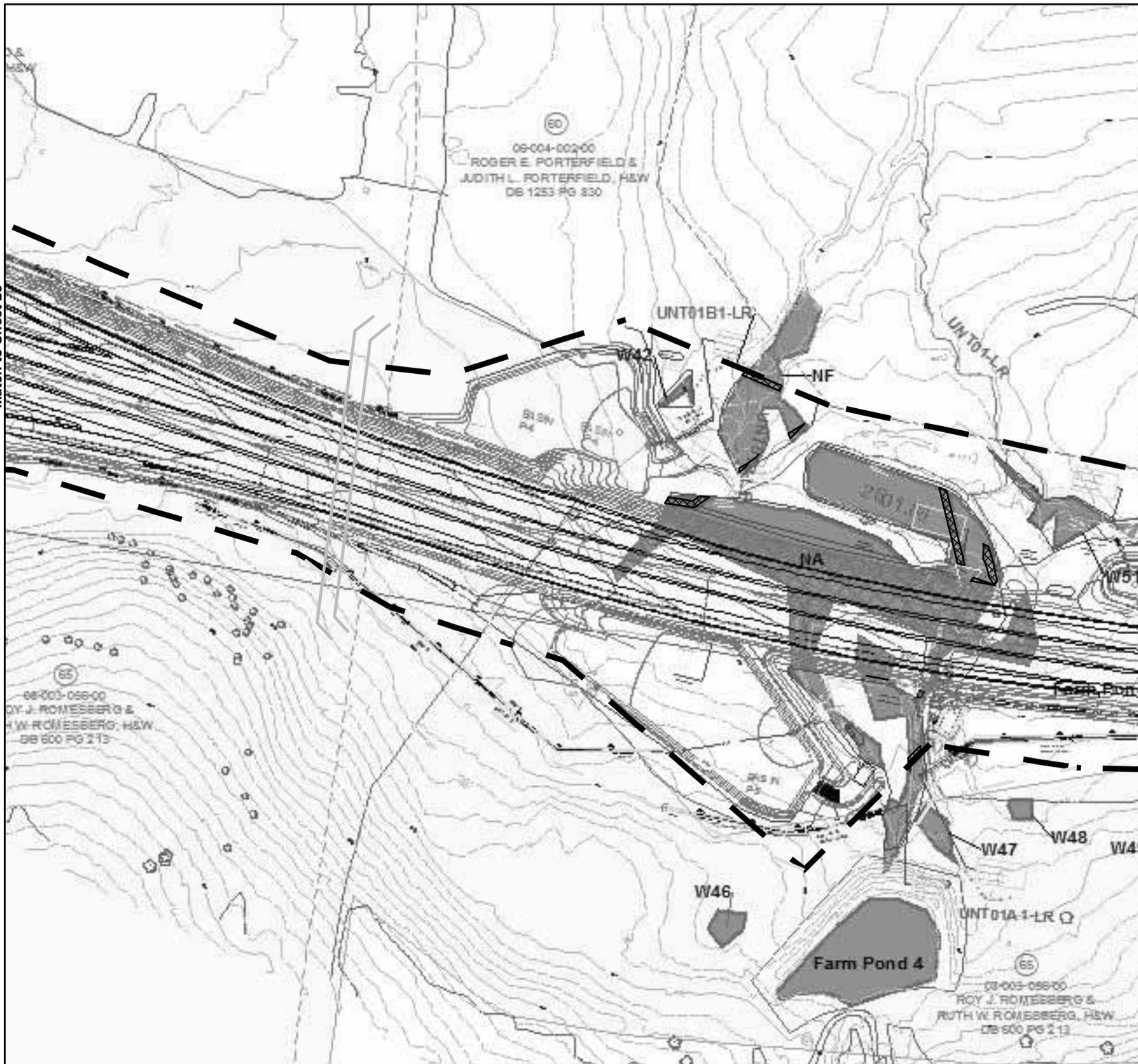
SR 6219 SECTION 020  
**JOINT PERMIT  
 APPLICATION  
 SITE PLANS**

**SHEET  
 26 of 36**

- Legend**
- RESOURCES**
  - Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
  - Intermittent Stream
  - Perennial Stream
  - Vernal Pool
  - 100-Year Floodplain
  - Archaeological Site
  - Threatened & Endangered Species**
  - Known Locations of Fraser's Sedge
  - Potential Habitat for Longnose Sucker
  - Potential Habitat for Upland Sandpiper / Dickcissel
  - EXISTING STORMWATER CONTROLS**
  - Stormwater Drainage
  - Conveyance
  - Stormwater Control Basin
  - PROPOSED ACTIVITY**
  - Roadway Pavement
  - Bridge
  - Culvert
  - Limits of Earth Disturbance**
  - Limit of Fill
  - Limit of Cut
  - Stormwater Management Basin
  - Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
  - Proposed Contours
  - Proposed Utility Easement**
  - Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
  - EXISTING BASE MAPPING**
  - Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - Parcel Identification Number No Property Take
  - Treeline
  - Contours

Match to Sheet 25

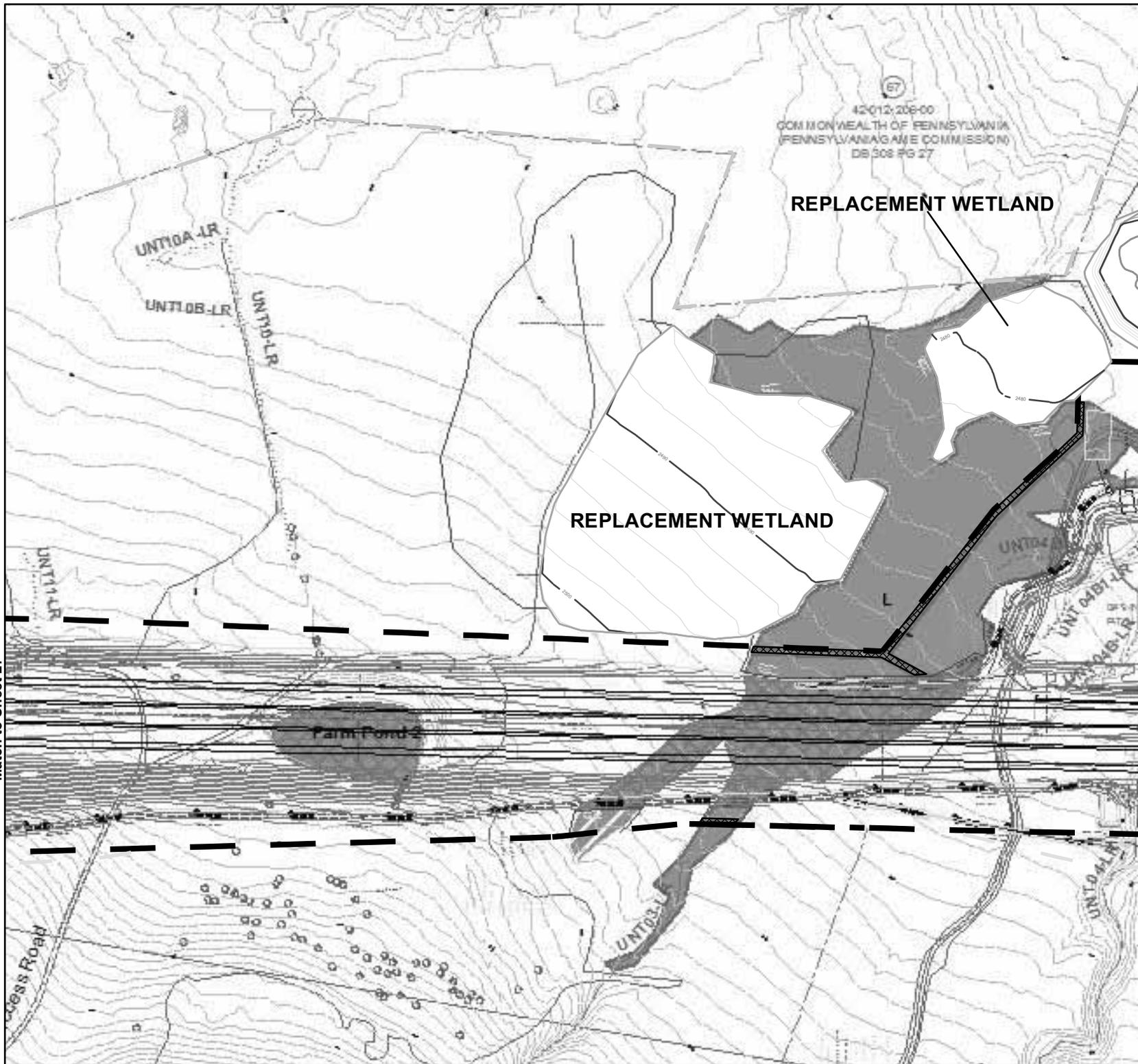
Match to Sheet 27





**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
28 of 36**



42012-208-00  
COMMONWEALTH OF PENNSYLVANIA  
PENNSYLVANIA GAME COMMISSION  
DB 508 PG 27

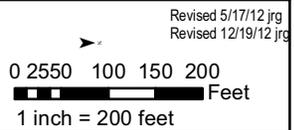
**REPLACEMENT WETLAND**

**REPLACEMENT WETLAND**

- Legend**
- RESOURCES**
- Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
  - Intermittent Stream
  - Perennial Stream
  - Vernal Pool
  - 100-Year Floodplain
  - Archaeological Site
- Threatened & Endangered Species**
- Known Locations of Fraser's Sedge
  - Potential Habitat for Longnose Sucker
  - Potential Habitat for Upland Sandpiper / Dickcissel
- EXISTING STORMWATER CONTROLS**
- Stormwater Drainage Conveyance
  - Stormwater Control Basin
- PROPOSED ACTIVITY**
- Roadway Pavement
  - Bridge
  - Culvert
  - Limits of Earth Disturbance
  - Limit of Fill
  - Limit of Cut
  - Stormwater Management Basin
  - Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
  - Proposed Contours
  - Proposed Utility Easement
  - Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
- EXISTING BASE MAPPING**
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - Parcel Identification Number No Property Take
  - Treeline
  - Contours

Match to Sheets 29 & 30

Match to Sheet 27



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
29 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage Conveyance
- Stormwater Control Basin

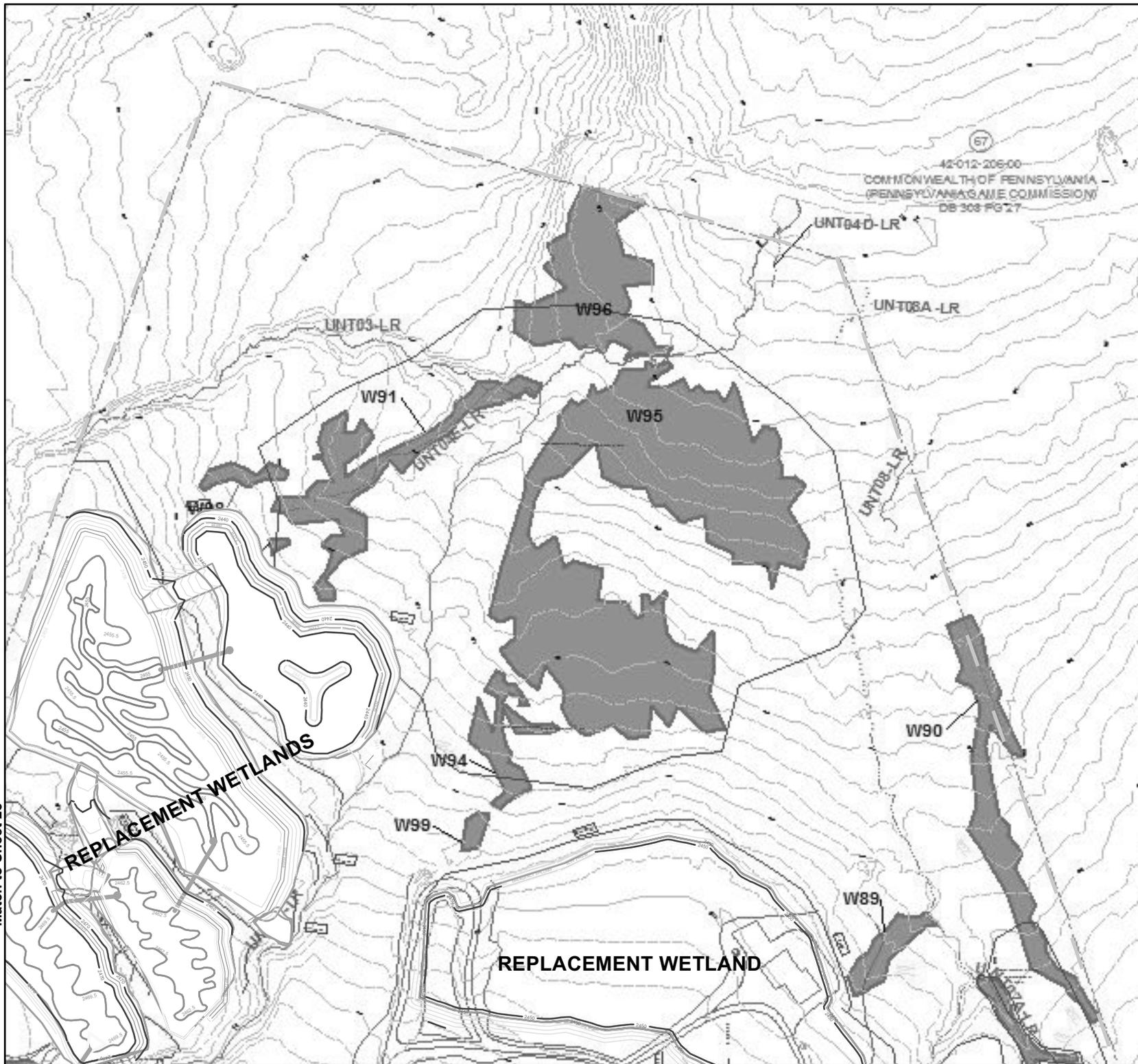
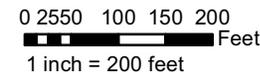
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance**
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement**
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number
- No Property Take
- Treeline
- Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 28

Match to Sheet 30

# SR 6219 SECTION 020 JOINT PERMIT APPLICATION SITE PLANS

## SHEET 30 of 36

### Legend

#### RESOURCES

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

#### Threatened & Endangered Species

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

#### EXISTING STORMWATER CONTROLS

- Stormwater Drainage
- Conveyance
- Stormwater Control Basin

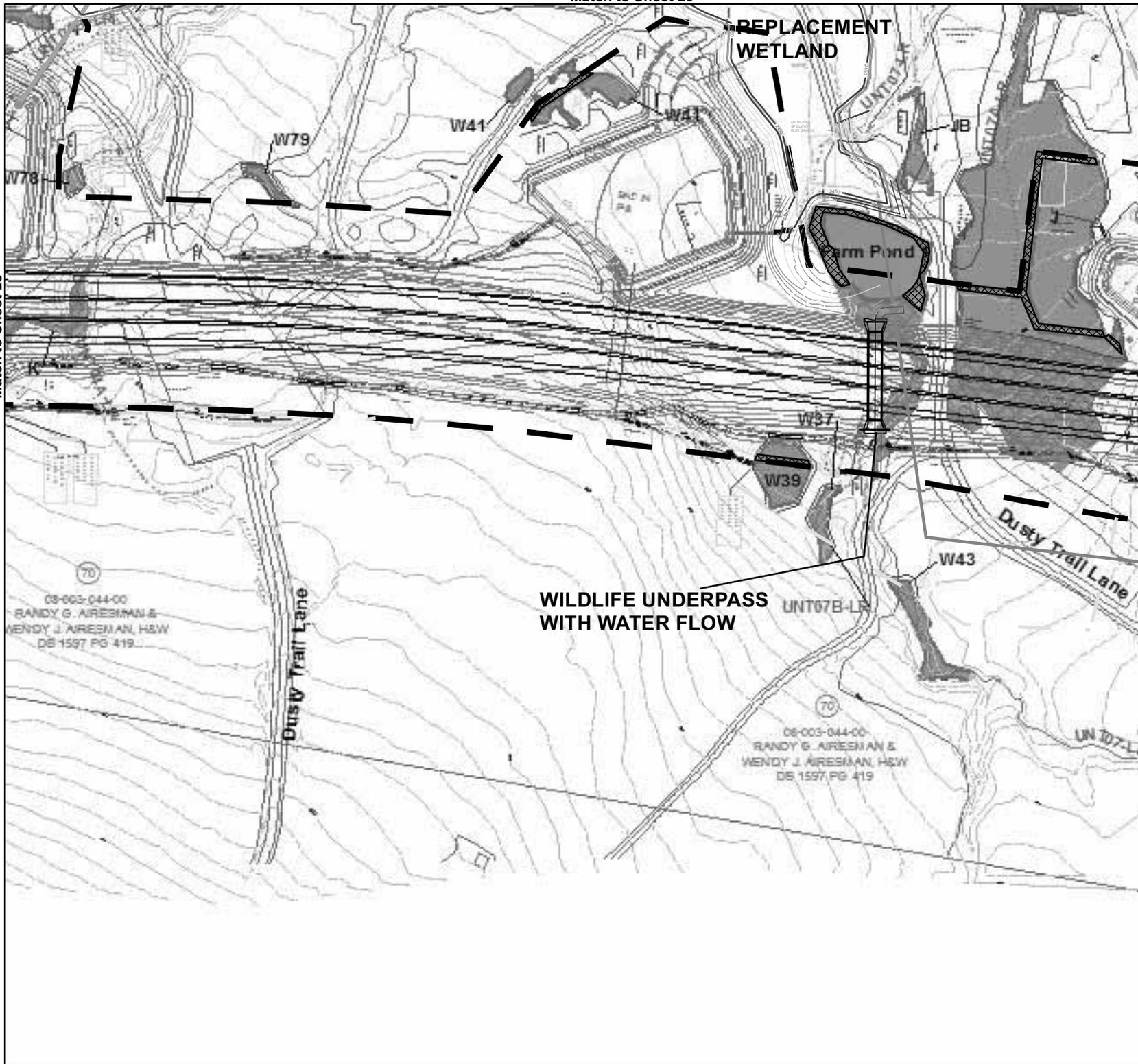
#### PROPOSED ACTIVITY

- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
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- Proposed Contours
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- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

#### EXISTING BASE MAPPING

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- No Property Take
- Treeline
- Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 28

Match to Sheet 31

08-003-044-00  
RANDY G. AIRESMAN &  
WENDY J. AIRESMAN, H&W  
DB 1597 PG 419

08-003-044-00  
RANDY G. AIRESMAN &  
WENDY J. AIRESMAN, H&W  
DB 1597 PG 419

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
31 of 36**

**Legend**

**RESOURCES**

-  Delineated Palustrine Wetland
-  Direct Wetland Impact
-  Indirect Wetland Impact
-  Temporary Wetland Impact
-  Ephemeral Channel
-  Intermittent Stream
-  Perennial Stream
-  Vernal Pool
-  100-Year Floodplain
-  Archaeological Site

**Threatened & Endangered Species**

-  Known Locations of Fraser's Sedge
-  Potential Habitat for Longnose Sucker
-  Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

-  Stormwater Drainage
-  Conveyance
-  Stormwater Control Basin

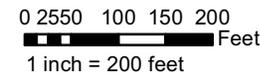
**PROPOSED ACTIVITY**

-  Roadway Pavement
-  Bridge
-  Culvert
-  Limits of Earth Disturbance
-  Limit of Fill
-  Limit of Cut
-  Stormwater Management Basin
-  Required Right-of-Way
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**EXISTING BASE MAPPING**

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-  Roadways
-  Property Lines
-  Parcel Identification Number
-  Parcel Identification Number No Property Take
-  Treeline
-  Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



42-012-206-00  
COMMONWEALTH OF PENNSYLVANIA  
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(PENNSYLVANIA GAME COMMISSION)  
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Match to Sheet 30

Match to Sheet 32

SR 6219 SECTION 020  
**JOINT PERMIT  
 APPLICATION  
 SITE PLANS**

**SHEET  
 32 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage Conveyance
- Stormwater Control Basin

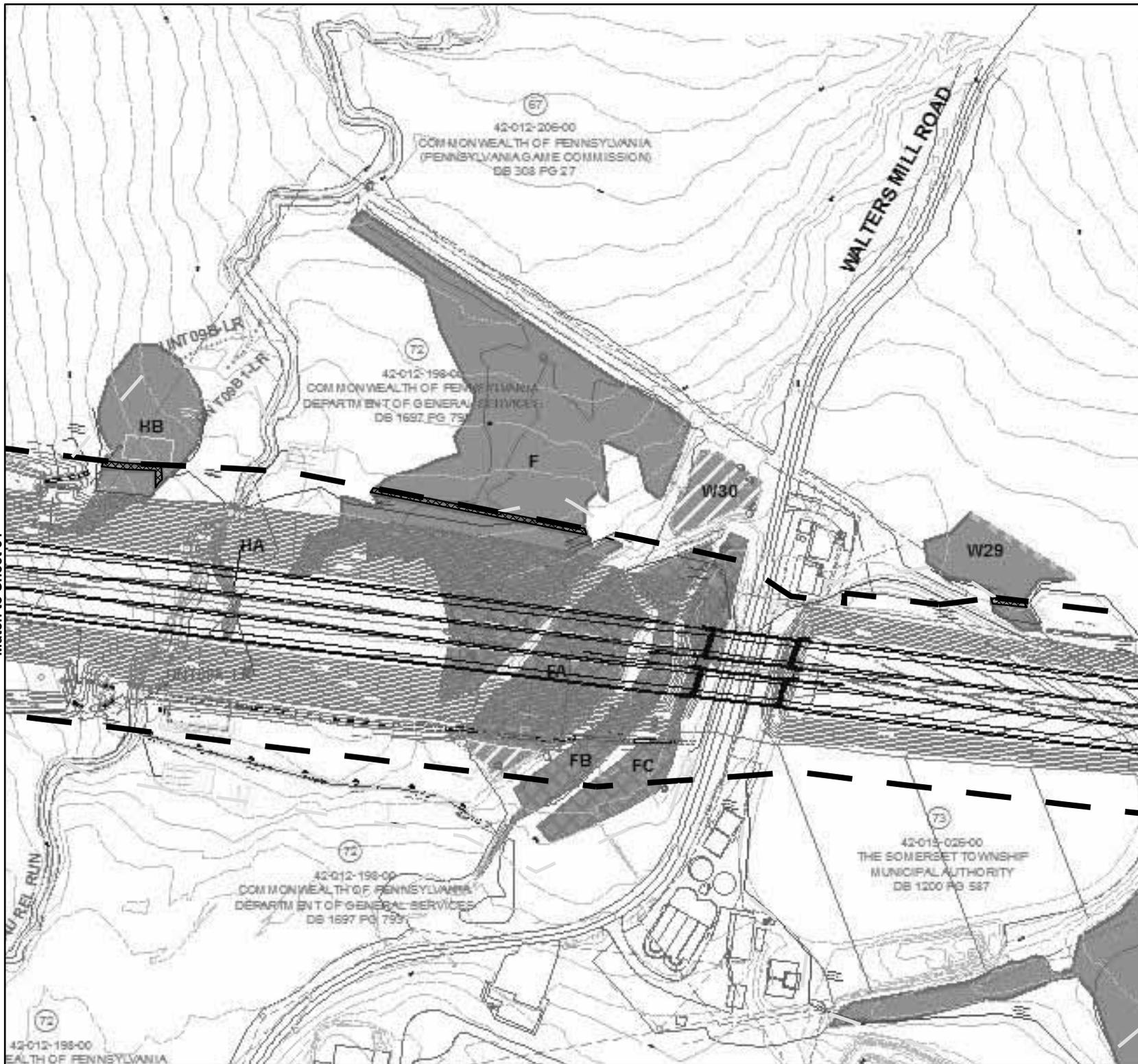
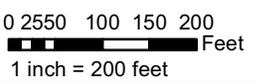
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number No Property Take
- Treeline
- Contours

Revised 5/17/12 jrg  
 Revised 12/19/12 jrg



Match to Sheet 31

Match to Sheet 33

42-012-198-00  
 COMMONWEALTH OF PENNSYLVANIA

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
33 of 36**

**Legend**

**RESOURCES**

-  Delineated Palustrine Wetland
-  Direct Wetland Impact
-  Indirect Wetland Impact
-  Temporary Wetland Impact
-  Ephemeral Channel
-  Intermittent Stream
-  Perennial Stream
-  Vernal Pool
-  100-Year Floodplain
-  Archaeological Site

**Threatened & Endangered Species**

-  Known Locations of Fraser's Sedge
-  Potential Habitat for Longnose Sucker
-  Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

-  Stormwater Drainage
-  Conveyance
-  Stormwater Control Basin

**PROPOSED ACTIVITY**

-  Roadway Pavement
-  Bridge
-  Culvert
-  Limits of Earth Disturbance
-  Limit of Fill
-  Limit of Cut
-  Stormwater Management Basin
-  Required Right-of-Way
-  Temp. Construction Easement
-  ROW for Mitigation Site

**Proposed Contours**

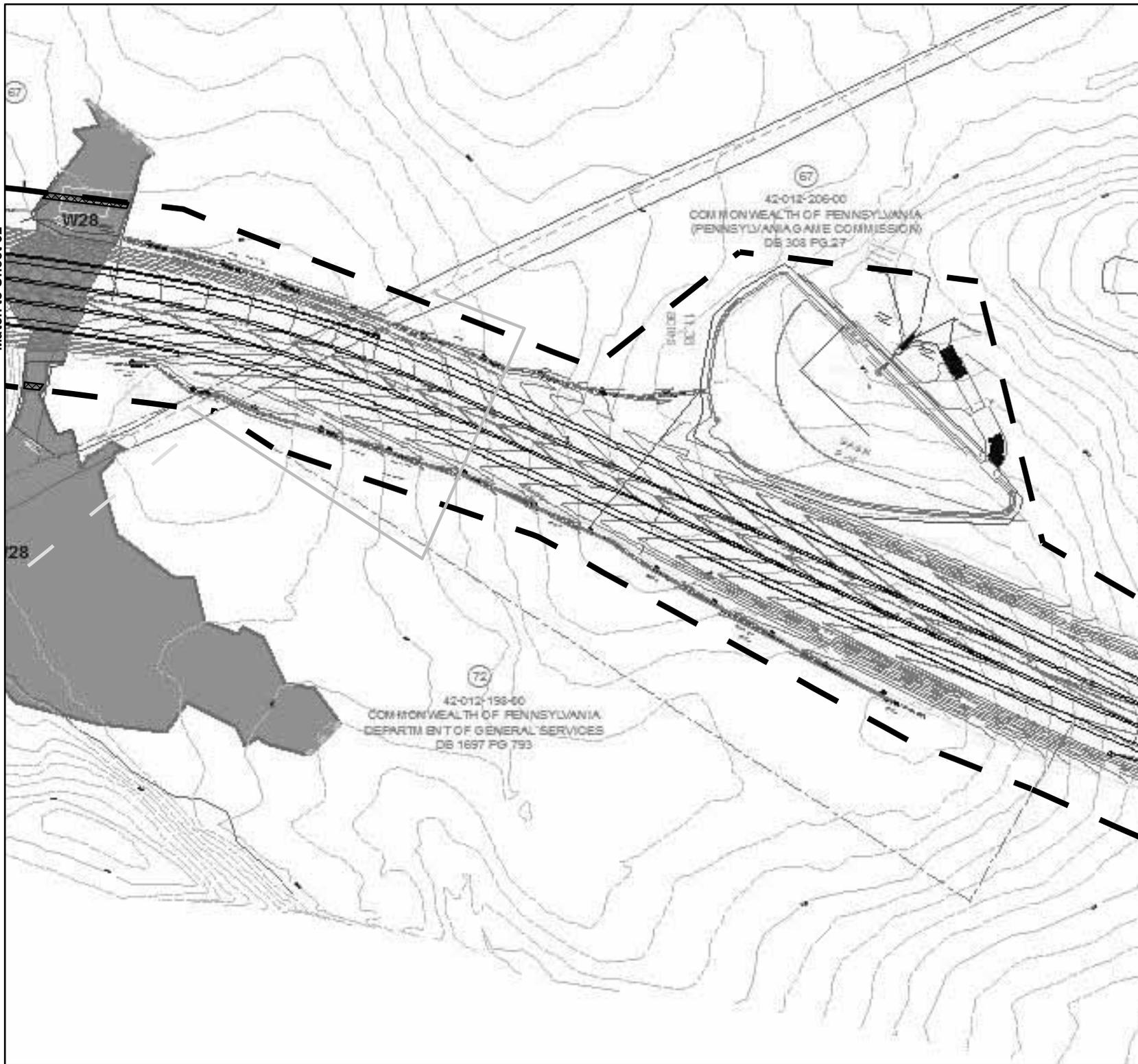
-  Proposed Utility Easement
-  Proposed Electricity
-  Proposed Gas
-  Proposed Water
-  Proposed Telephone

**EXISTING BASE MAPPING**

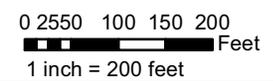
-  Swamp Creek Valley Historic District (Arrows point toward center of historic district)
-  Utility Lines
-  Building
-  Railroad
-  Unimproved Roads
-  Roadways
-  Property Lines
-  Parcel Identification Number
-  Parcel Identification Number No Property Take
-  Treeline
-  Contours

Match to Sheet 32

Match to Sheet 34



Revised 5/17/12 jrg  
Revised 12/19/12 jrg



**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
34 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage Conveyance
- Stormwater Control Basin

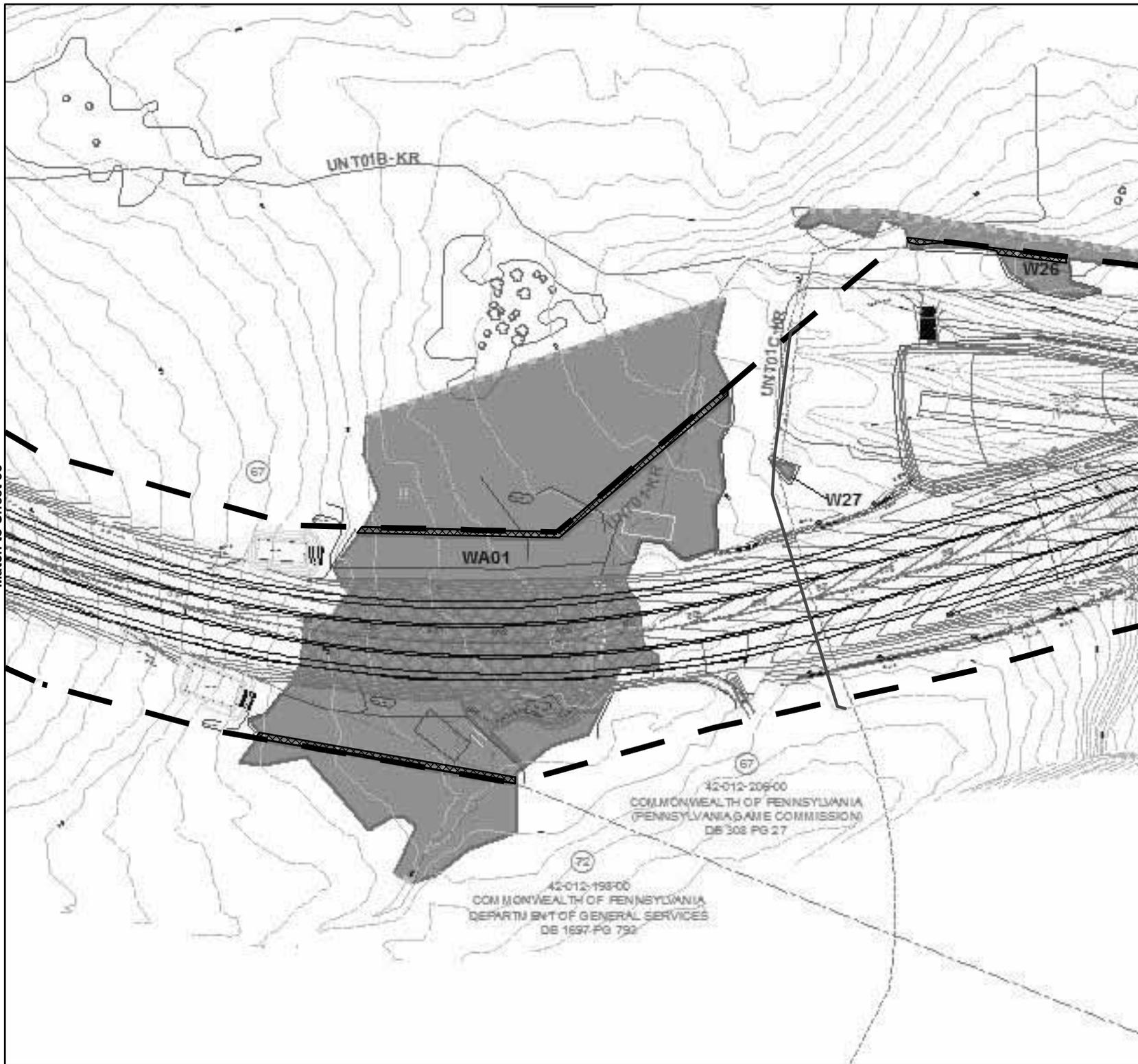
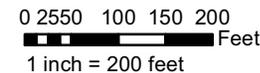
**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
- Culvert
- Limits of Earth Disturbance**
- Limit of Fill
- Limit of Cut
- Stormwater Management Basin
- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site
- Proposed Contours
- Proposed Utility Easement**
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number No Property Take
- Treeline
- Contours

Revised 5/17/12 jrg  
Revised 12/19/12 jrg



Match to Sheet 33

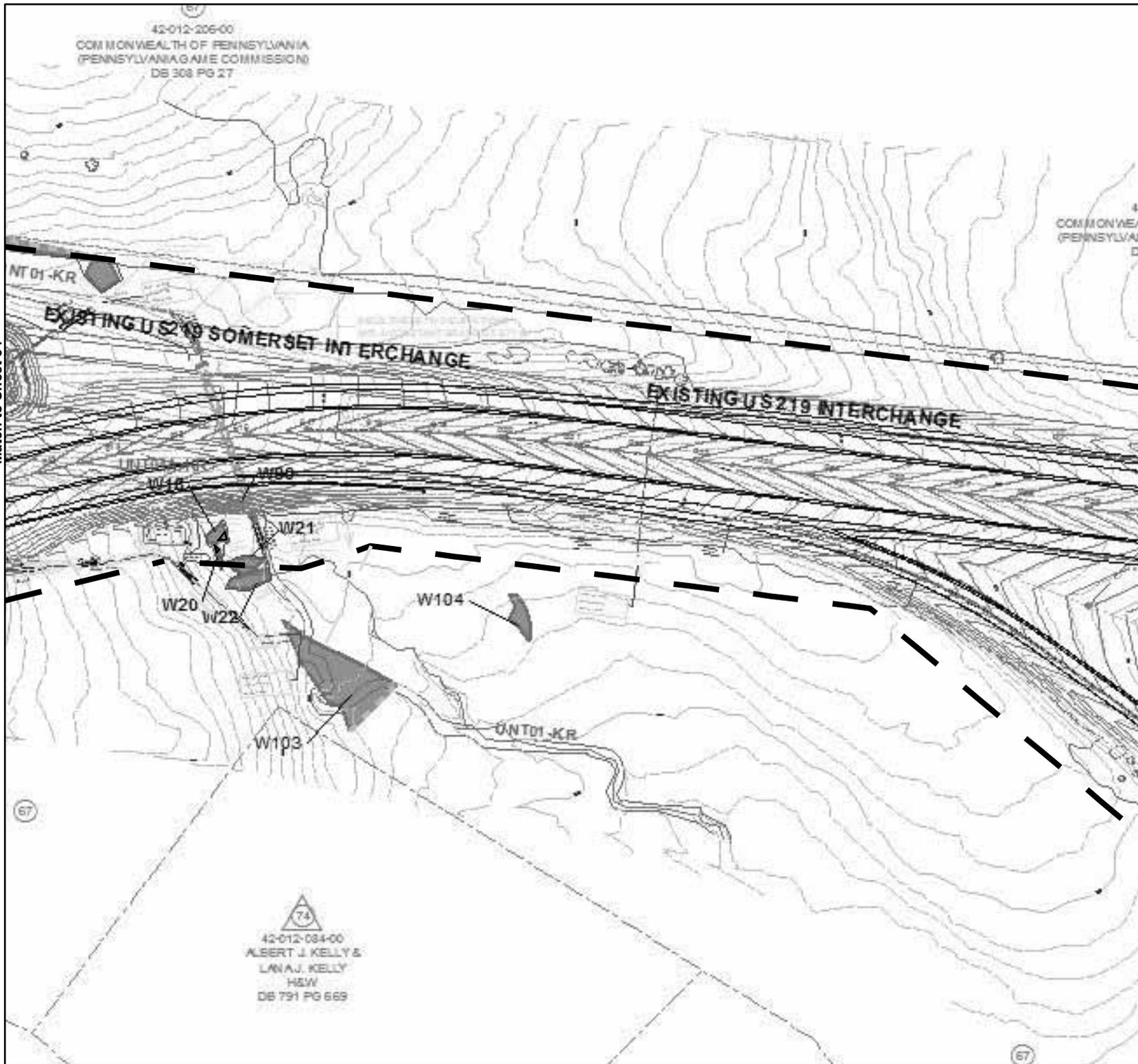
Match to Sheet 35

**SR 6219 SECTION 020  
JOINT PERMIT  
APPLICATION  
SITE PLANS**

**SHEET  
35 of 36**

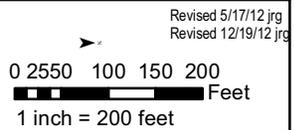
**Legend**

- RESOURCES**
- Delineated Palustrine Wetland
  - Direct Wetland Impact
  - Indirect Wetland Impact
  - Temporary Wetland Impact
  - Ephemeral Channel
  - Intermittent Stream
  - Perennial Stream
  - Vernal Pool
  - 100-Year Floodplain
  - Archaeological Site
- Threatened & Endangered Species**
- Known Locations of Fraser's Sedge
  - Potential Habitat for Longnose Sucker
  - Potential Habitat for Upland Sandpiper / Dickcissel
- EXISTING STORMWATER CONTROLS**
- Stormwater Drainage Conveyance
  - Stormwater Control Basin
- PROPOSED ACTIVITY**
- Roadway Pavement
  - Bridge
  - Culvert
  - Limits of Earth Disturbance
  - Limit of Fill
  - Limit of Cut
  - Stormwater Management Basin
  - Required Right-of-Way
  - Temp. Construction Easement
  - ROW for Mitigation Site
  - Proposed Contours
  - Proposed Utility Easement
  - Proposed Electricity
  - Proposed Gas
  - Proposed Water
  - Proposed Telephone
- EXISTING BASE MAPPING**
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
  - Utility Lines
  - Building
  - Railroad
  - Unimproved Roads
  - Roadways
  - Property Lines
  - Parcel Identification Number
  - Parcel Identification Number No Property Take
  - Treeline
  - Contours



42-012-206-00  
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(PENNSYLVANIA GAME COMMISSION)  
DB 308 PG 27

74  
42-012-084-00  
ALBERT J. KELLY &  
LINA J. KELLY  
HEW  
DB 791 PG 669



SR 6219 SECTION 020  
**JOINT PERMIT  
 APPLICATION  
 SITE PLANS**

**SHEET  
 36 of 36**

**Legend**

**RESOURCES**

- Delineated Palustrine Wetland
- Direct Wetland Impact
- Indirect Wetland Impact
- Temporary Wetland Impact
- Ephemeral Channel
- Intermittent Stream
- Perennial Stream
- Vernal Pool
- 100-Year Floodplain
- Archaeological Site

**Threatened & Endangered Species**

- Known Locations of Fraser's Sedge
- Potential Habitat for Longnose Sucker
- Potential Habitat for Upland Sandpiper / Dickcissel

**EXISTING STORMWATER CONTROLS**

- Stormwater Drainage Conveyance
- Stormwater Control Basin

**PROPOSED ACTIVITY**

- Roadway Pavement
- Bridge
- Culvert

**Limits of Earth Disturbance**

- Limit of Fill
- Limit of Cut

**Stormwater Management Basin**

- Required Right-of-Way
- Temp. Construction Easement
- ROW for Mitigation Site

**Proposed Contours**

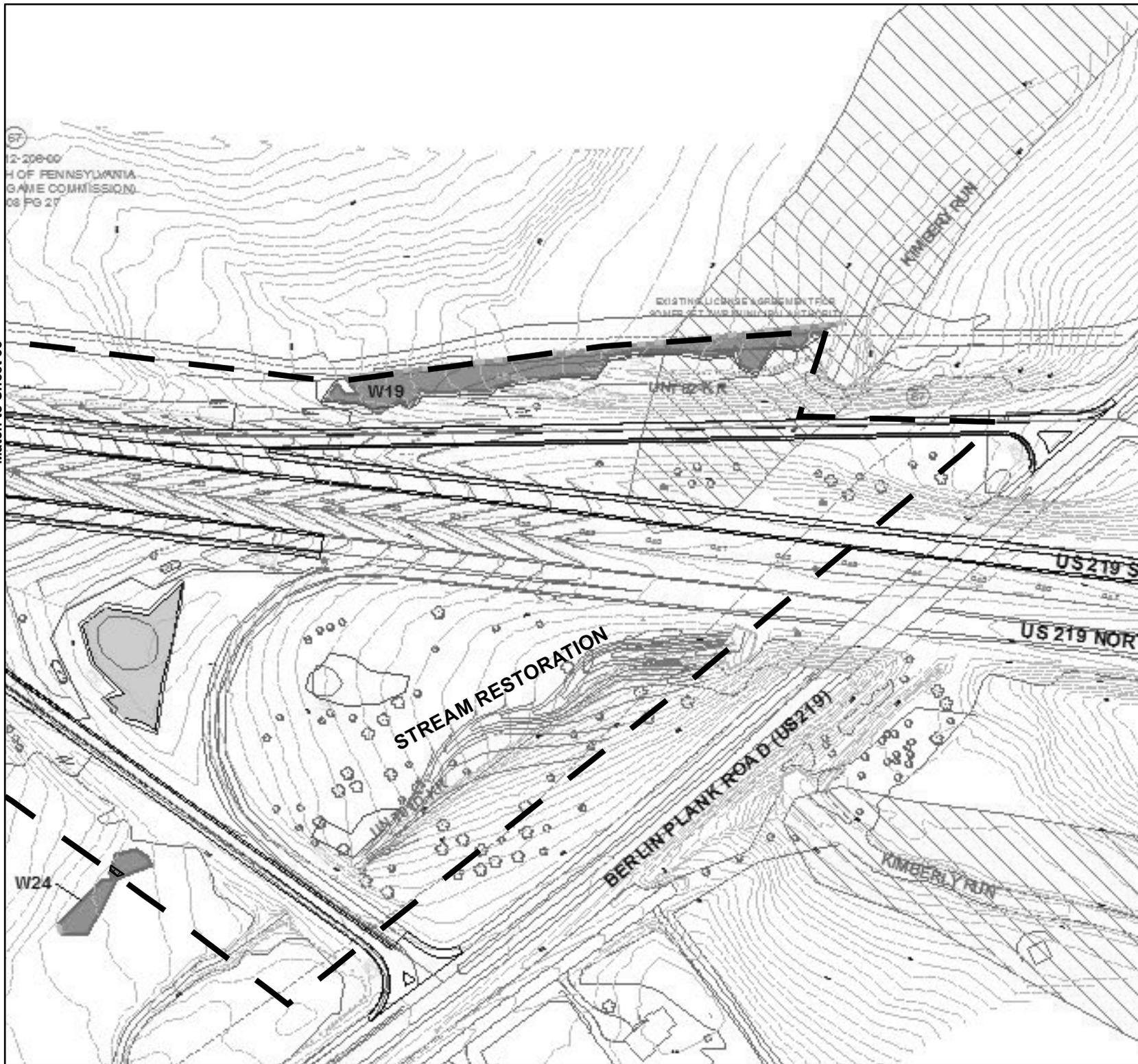
- Proposed Contours
- Proposed Utility Easement
- Proposed Electricity
- Proposed Gas
- Proposed Water
- Proposed Telephone

**EXISTING BASE MAPPING**

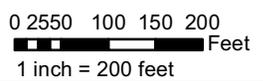
- Swamp Creek Valley Historic District (Arrows point toward center of historic district)
- Utility Lines
- Building
- Railroad
- Unimproved Roads
- Roadways
- Property Lines
- Parcel Identification Number
- Parcel Identification Number No Property Take
- Treeline
- Contours

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Match to Sheet 35



Revised 5/17/12 jrg  
 Revised 12/19/12 jrg





**Structure #2**

- Add stream bank fencing
- Place where shown or at least 50' from stream banks
- At equipment and cattle crossings, use double posted with breakaway fence with droppers

**Structure #5**

- Add modified mud sill at eroded bank

Wetland #4

APPROX. 15'

**Structure #4**

- Add log frame channel block at braided stream area

Wetland #3

CATTLE

**Structure #3**

- Add 25' cattle crossing
- Use hog slats within stream area
- (See #2 on fencing)
- Temporary Stream Impact

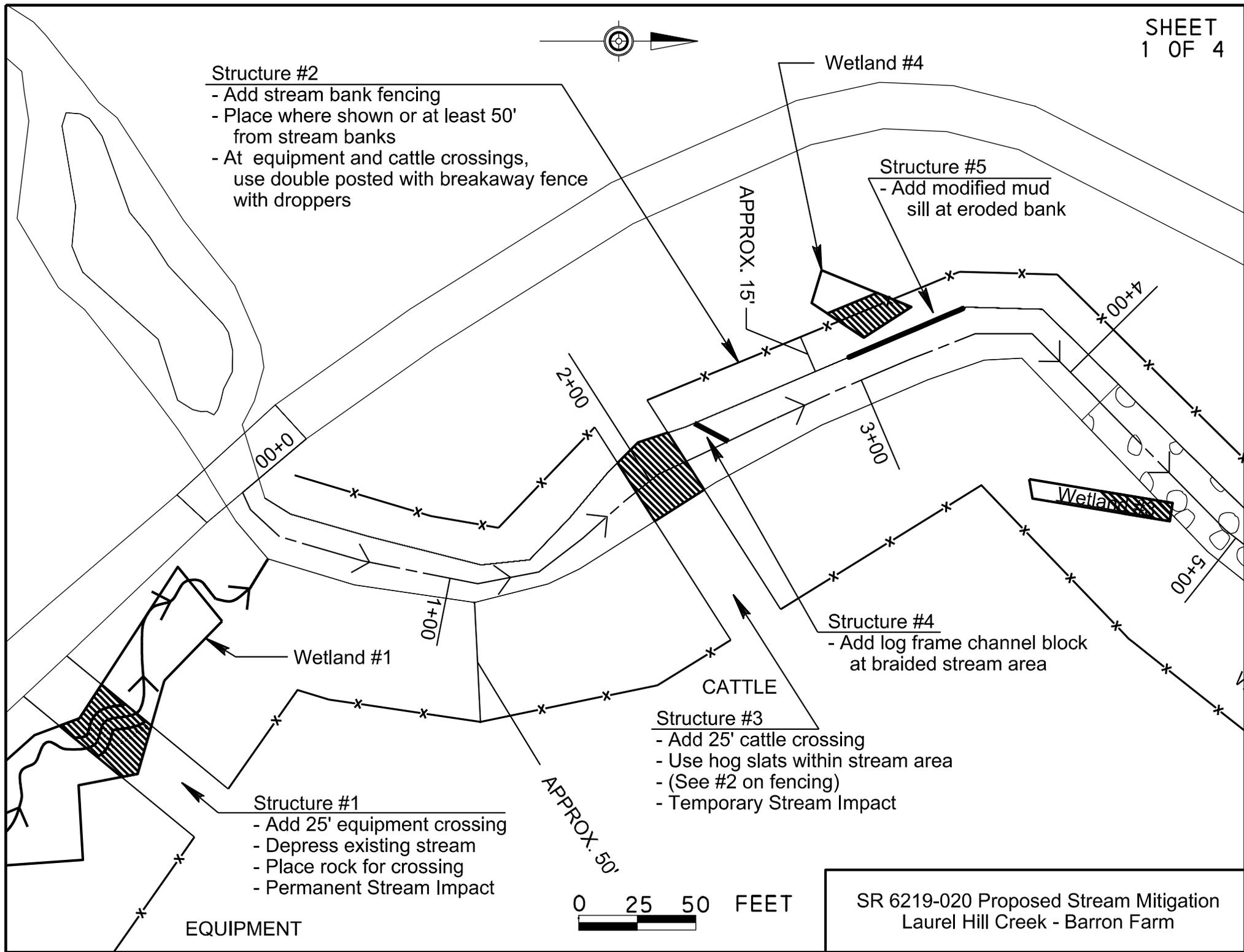
APPROX. 50'

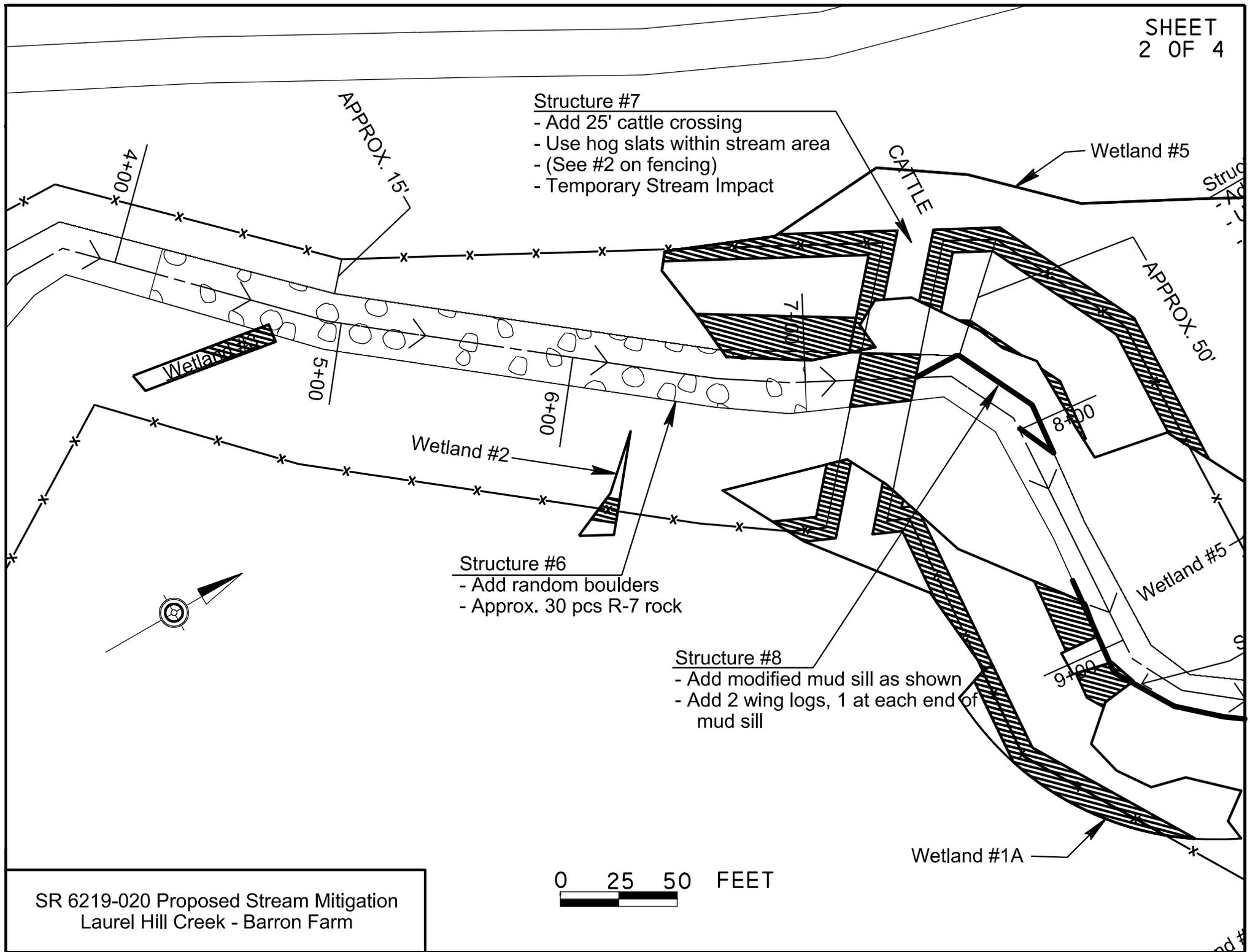
**Structure #1**

- Add 25' equipment crossing
- Depress existing stream
- Place rock for crossing
- Permanent Stream Impact

Wetland #1

EQUIPMENT





Structure #7  
- Add 25' cattle crossing  
- Use hog slats within stream area  
- (See #2 on fencing)  
- Temporary Stream Impact

Structure #6  
- Add random boulders  
- Approx. 30 pcs R-7 rock

Structure #8  
- Add modified mud sill as shown  
- Add 2 wing logs, 1 at each end of mud sill

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Laurel Hill Creek - Barron Farm



Structure #12,13

- Add 25' cattle crossing
- Use hog slats within stream area
- (See #2 on fencing)
- Temporary Stream Impact

Structure #11

- Add modified mud sill
- Add 2 wing logs, 1 at each end of mud sill
- create floodplain bench on opposite side

See Sheet  
2 of 4

Wetland #5

Structure #9

- Add modified mud sill

FP

Wetland #6

Wetland #2A

FP

Structure #10

- Add modified mud sill
- Add 2 wing logs, 1 at each end of mud sill
- create floodplain bench on opposite side

11+00

FP

16+00

Wetland #3A

Structure #14

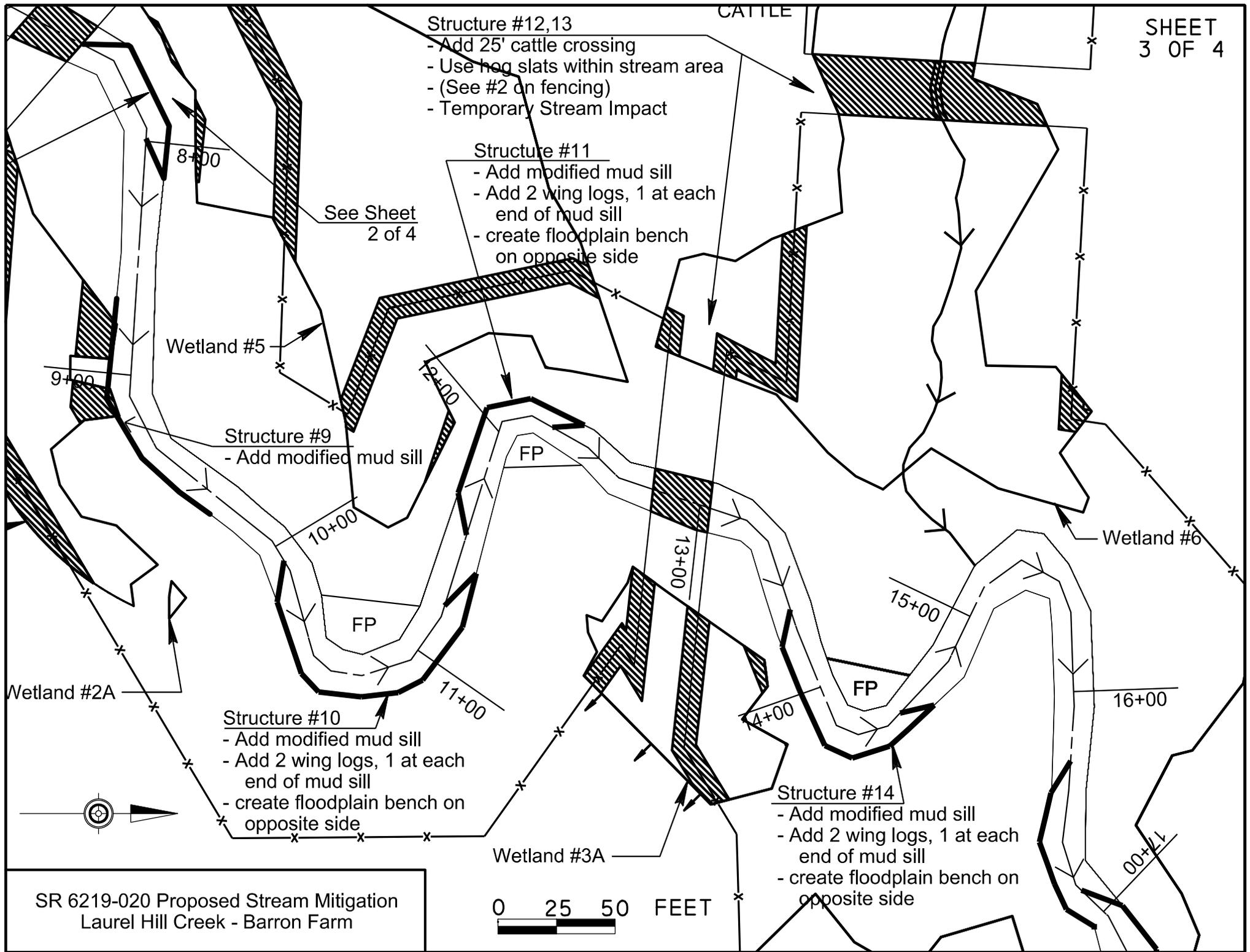
- Add modified mud sill
- Add 2 wing logs, 1 at each end of mud sill
- create floodplain bench on opposite side

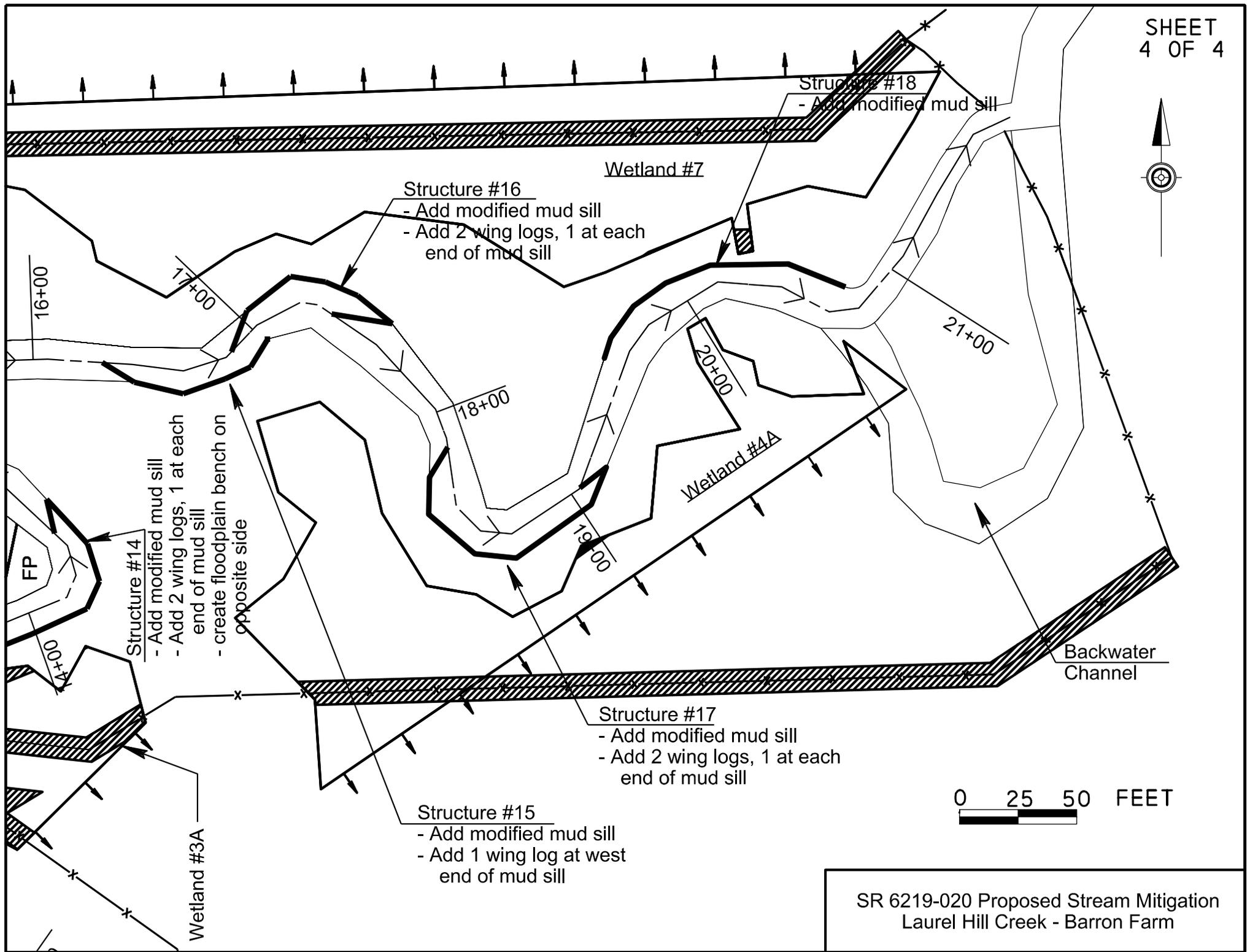
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SR 6219-020 Proposed Stream Mitigation  
Laurel Hill Creek - Barron Farm





SR 6219-020 Proposed Stream Mitigation  
Laurel Hill Creek - Barron Farm