

Information for File # 2015-01396-WAB

Applicant: Itasca County Highway Department

Corps Contact: William Baer

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Primary County: Itasca

Location S/T/R: Sec 14, 15, & 16, T59N, R25W

Information Complete On: May 6, 2015

Posting Expires On: May 25, 2015

Authorization Type: LOP-05-MN (A)

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

Project Purpose: The purpose of the project is to rehabilitate a two mile long segment of County State Aid Highway (CSAH) 45, to meet current ten-ton design standards, meet the required width for safety, and meet a 40 mile-per-hour speed for current traffic usage.

Existing Condition: According to the applicant, CSAH 45 serves as an important route between TH 38 and CSAH 7 with an average daily traffic count of 255 vehicles per day. The existing road surface is gravel and varies in width. The roadway has many hazardous curves and the limited right-of-way restricts the ability to provide a clear zone free from obstructions. Over 50% of the curves within the segment only meet a 30-mph design.

Project Description: The project involves reconstruction of 10,025 linear feet of CSAH 45. The proposed road would include a 28 foot wide paved surface with two foot wide gravel shoulders. The project will utilize the existing road alignment to the extent possible, with slight changes in horizontal alignment where necessary for the radius to

meet current safety standards and the 40-mph speed limit. Ditches will not be excavated in wetland areas to avoid and minimize wetland impacts. Temporary berm piles, erosion control blanket, silt fence, and bio rolls will be utilized for erosion control on the project where each option is suited best.

Name, Area and Types of waters (including wetlands) subject to loss: The project would result in a total of 4.26 acres of wetland impacts in 25 locations due to permanent fill (3.11 acres) and temporary fill (1.15 acres). The temporary fill is associated with grading and temporary storage of topsoil along the outer portion of the construction corridor during construction. The 3.11 acres of permanent wetland impacts include: 0.06 acres of seasonally flooded basin (Type 1); 0.20 acres of shallow marsh (Type 3); 0.91 acre of alder thicket (Type 6); 0.27 acre of hardwood swamp (Type 7); and, 1.67 acres of open bog (type 8). The 1.15 acres of temporary wetland impacts include: 0.03 acres of seasonally flooded basin (Type 1); 0.08 acres of shallow marsh (Type 3); 0.44 acres of alder thicket (Type 6); 0.13 acres of hardwood swamp (Type 7); and, 0.47 acres of open bog (Type 8).

Alternatives considered: The applicant considered and dismissed the no-build alternative because it would not correct the existing deficiencies. The applicant considered and dismissed alternative routes to avoid or minimize wetland impacts. Due to the extensive number of wetlands, an alternative route would make the highway much more expensive and require more curves in the roadway that would create more safety hazards.

Compensatory Mitigation: The project impacts are located in Bank Service Area The applicant proposes to compensate for 3.11 acres of permanent wetland impacts by debiting credits from the Minnesota Local Government Road Wetland Replacement Program mitigation bank.

Drawings: See attached.

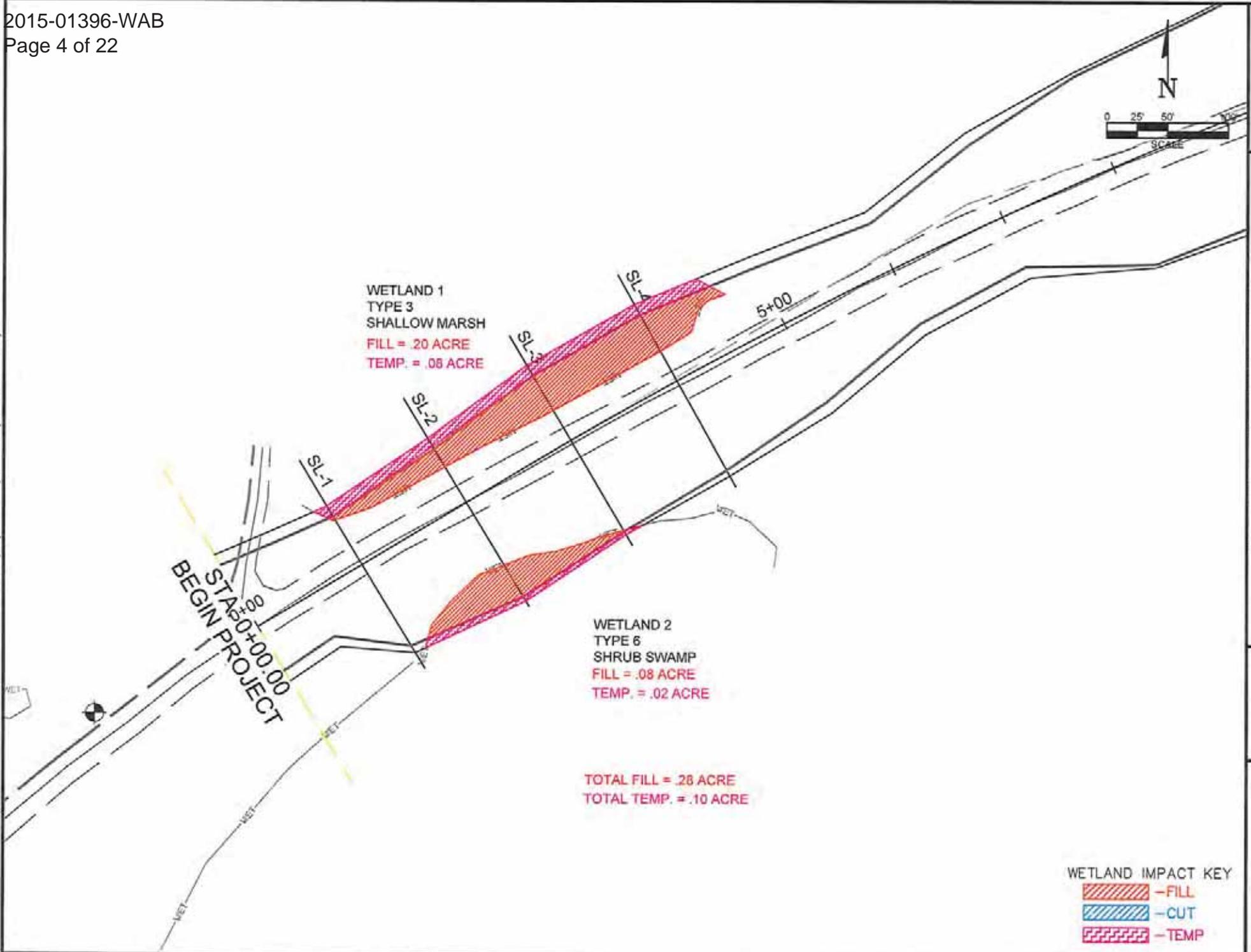
CSAH 45 Wetland Impacts - CP0706

Station to Station	Location Number	County	Wetland Type	Wetland Impacts			
				Cut - Acres	Fill - Acres	Temp - Acres	Total - Acres
0+90 - 4+70	1	Itasca	Type 3 - Shallow Marsh	0	0.2	0.08	0.28
1+10 - 3+20	2	Itasca	Type 6 - Shrub Swamp	0	0.08	0.02	0.10
15+30 - 17+10	3	Itasca	Type 6 - Shrub Swamp	0	0.01	0.03	0.04
16+00 - 18+00	4	Itasca	Type 6 - Shrub Swamp	0	0.02	0.01	0.03
22+70 - 24+20	5	Itasca	Type 6 - Shrub Swamp	0	0.06	0.03	0.09
23+50 - 24+70	6	Itasca	Type 6 - Shrub Swamp	0	0.01	0.02	0.03
42+60 - 43+10	7	Itasca	Type 1 - Seasonally Flooded	0	0.01	0.01	0.02
44+80 - 45+70	8	Itasca	Type 7 - Wooded Swamp	0	0.05	0.01	0.06
48+40 - 48+70	9	Itasca	Type 7 - Wooded Swamp	0	0.01	0.01	0.02
51+00 - 52+20	10	Itasca	Type 6 - Shrub Swamp	0	0.1	0.02	0.12
54+10 - 56+30	11	Itasca	Type 7 - Wooded Swamp	0	0.07	0.04	0.11
56+30 - 58+70	12	Itasca	Type 7 - Wooded Swamp	0	0.09	0.05	0.14
58+40 - 59+30	13	Itasca	Type 1 - Seasonally Flooded	0	0.02	0	0.02
60+40 - 60+60	14	Itasca	Type 1 - Seasonally Flooded	0	0.01	0	0.01
61+40 - 62+20	15	Itasca	Type 1 - Seasonally Flooded	0	0.01	0	0.01
65+00 - 73+30	16	Itasca	Type 8 - Bog	0	0.62	0.16	0.78
68+80 - 76+30	17	Itasca	Type 8 - Bog	0	0.73	0.17	0.90
81+20 - 82+30	18	Itasca	Type 6 - Shrub Swamp	0	0.02	0.02	0.04
83+70 - 84+00	19	Itasca	Type 6 - Shrub Swamp	0	0	0.01	0.01
84+90 - 88+60	20	Itasca	Type 8 - Bog	0	0.18	0.08	0.26
85+50 - 88+70	21	Itasca	Type 8 - Bog	0	0.14	0.06	0.20
89+80 - 90+80	22	Itasca	Type 7 - Wooded Swamp	0	0.05	0.02	0.07
91+10 - 96+40	23	Itasca	Type 6 - Shrub Swamp	0	0.31	0.11	0.42
91+50 - 92+60	24	Itasca	Type 1 - Seasonally Flooded	0	0.01	0.02	0.03
92+90 - 100+25	25	Itasca	Type 6 - Shrub Swamp	0	0.3	0.17	0.47

Wetland Impact Summary by Type

Wetland Type	Cut Impacts - AC	Fill Impacts - AC	Temporary - AC	Total - AC (Cut + Fill)
Type 1 - Seasonally Flooded	0	0.06	0.03	0.06
Type 3 - Shallow Marsh	0	0.20	0.08	0.20
Type 6- Shrub Swamp	0	0.91	0.44	0.91
Type 7 - Wooded Swamp	0	0.27	0.13	0.27
Type 8 - Bog	0	1.67	0.47	1.67
Total Area of Wetlands Impacted:				3.11 Acres

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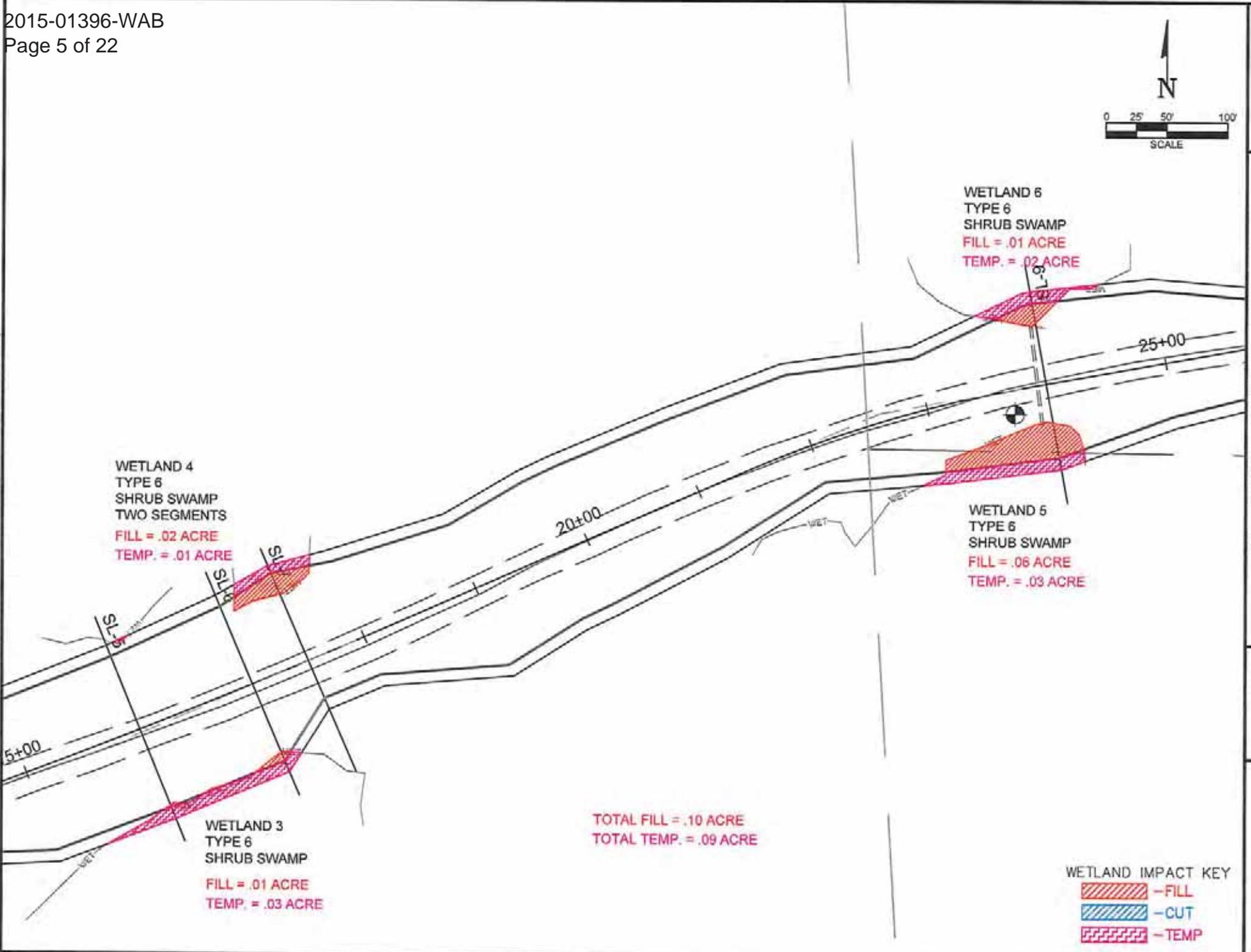
WETLAND 1
TYPE 3
SHALLOW MARSH
FILL = .20 ACRE
TEMP. = .08 ACRE

WETLAND 2
TYPE 6
SHRUB SWAMP
FILL = .08 ACRE
TEMP. = .02 ACRE

TOTAL FILL = .28 ACRE
TOTAL TEMP. = .10 ACRE

WETLAND IMPACT KEY
- FILL
- CUT
- TEMP

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WETLAND 4
TYPE 6
SHRUB SWAMP
TWO SEGMENTS
FILL = .02 ACRE
TEMP. = .01 ACRE

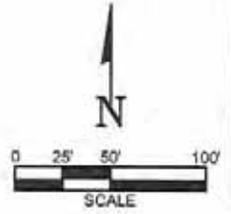
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TYPE 6
SHRUB SWAMP
FILL = .01 ACRE
TEMP. = .03 ACRE

WETLAND 6
TYPE 6
SHRUB SWAMP
FILL = .01 ACRE
TEMP. = .02 ACRE

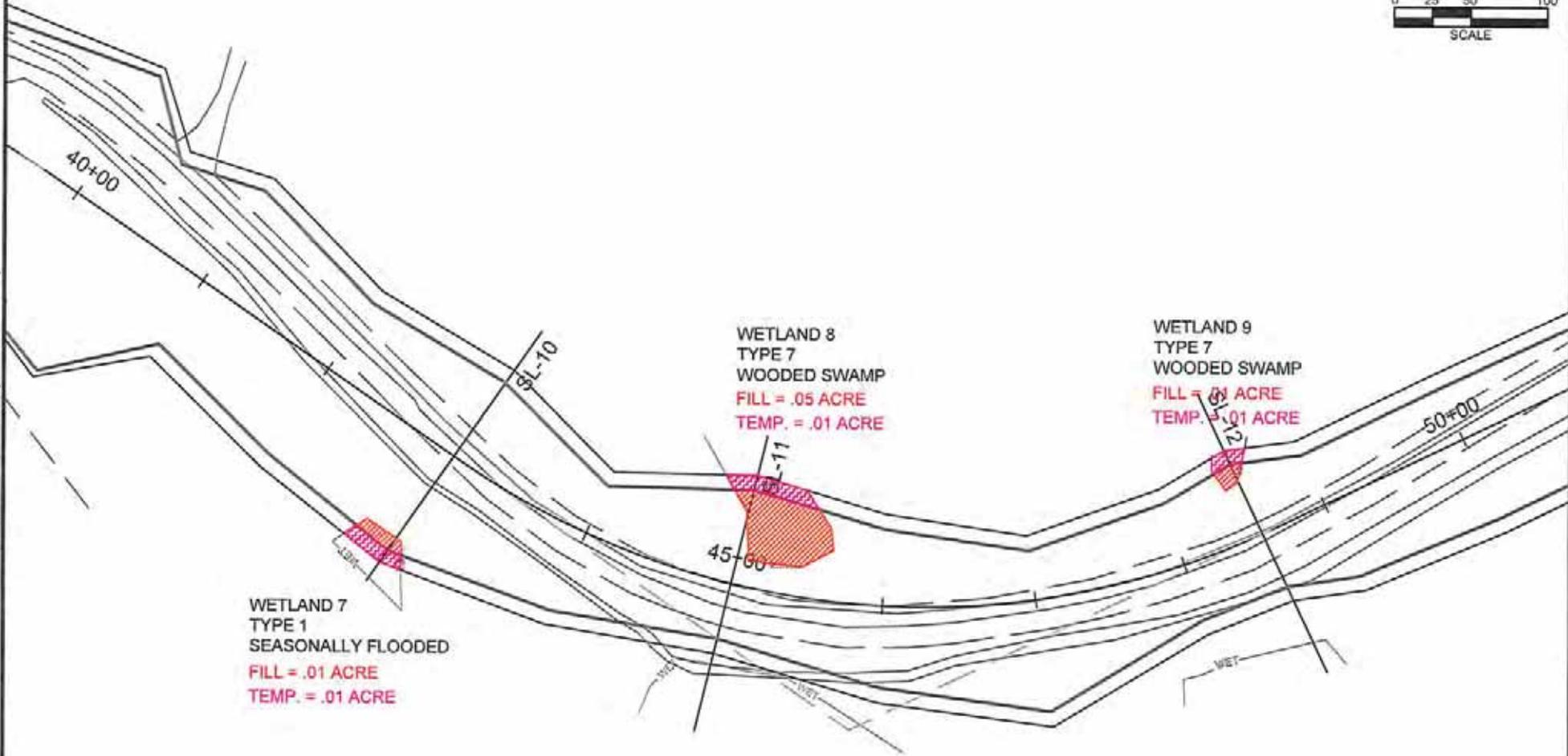
WETLAND 5
TYPE 6
SHRUB SWAMP
FILL = .06 ACRE
TEMP. = .03 ACRE

TOTAL FILL = .10 ACRE
TOTAL TEMP. = .09 ACRE

WETLAND IMPACT KEY
- FILL
- CUT
- TEMP



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WETLAND 7
TYPE 1
SEASONALLY FLOODED
FILL = .01 ACRE
TEMP. = .01 ACRE

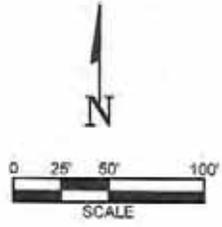
WETLAND 8
TYPE 7
WOODED SWAMP
FILL = .05 ACRE
TEMP. = .01 ACRE

WETLAND 9
TYPE 7
WOODED SWAMP
FILL = .01 ACRE
TEMP. = .01 ACRE

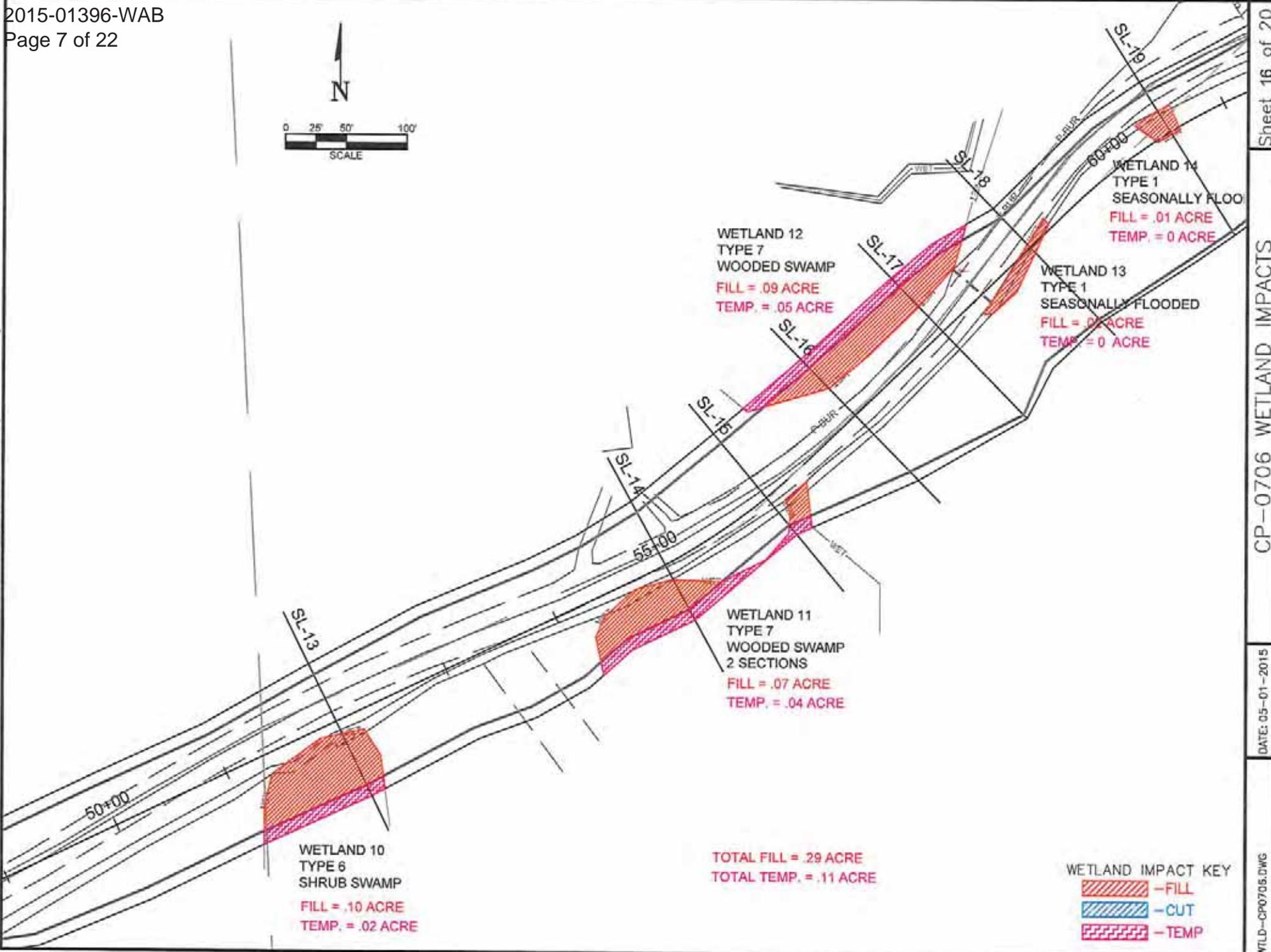
TOTAL FILL = .07 ACRE
TOTAL TEMP. = .03 ACRE

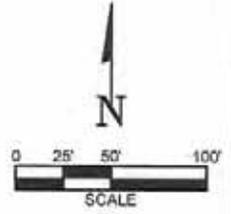
WETLAND IMPACT KEY

	-FILL
	-CUT
	-TEMP



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WETLAND 15
TYPE 1
SEASONALLY FLOODED
2 SECTIONS
FILL = .01 ACRE
TEMP. = 0 ACRE

WETLAND 16
TYPE 8
BOG
FILL = .62 ACRE
TEMP. = .16 ACRE

TOTAL FILL = .63 ACRE
TOTAL TEMP. = .16 ACRE

WETLAND IMPACT KEY
- FILL
- CUT
- TEMP

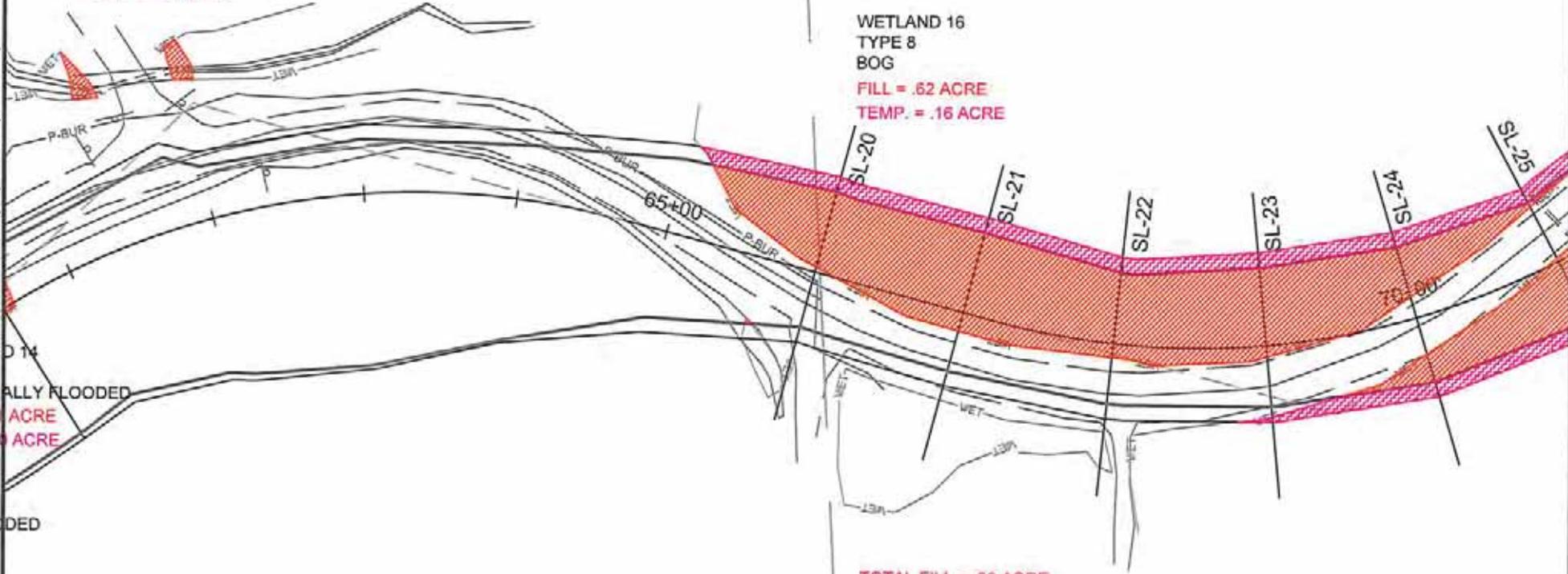
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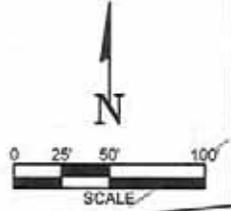
Sheet 17 of 20

CP-0706 WETLAND IMPACTS

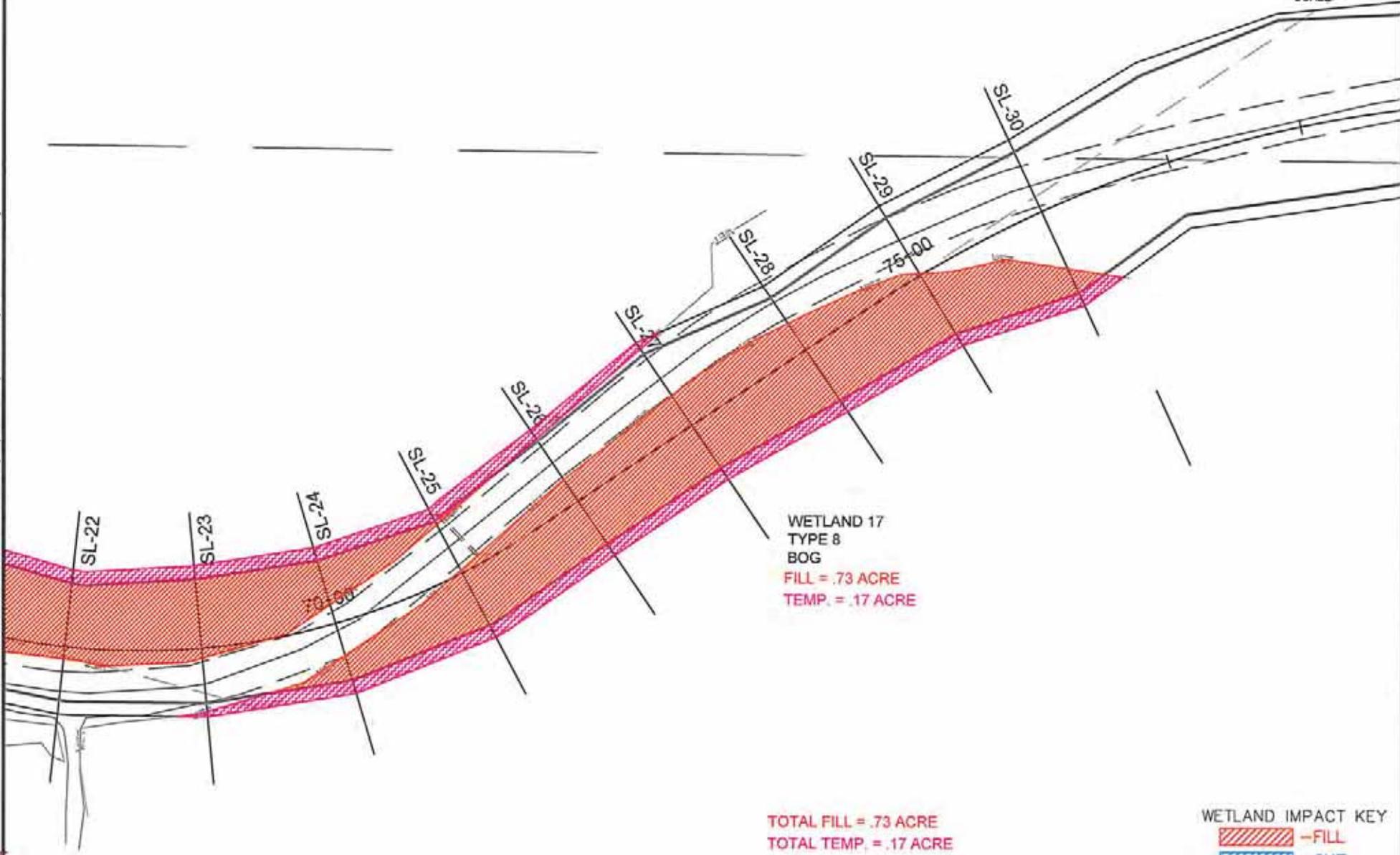
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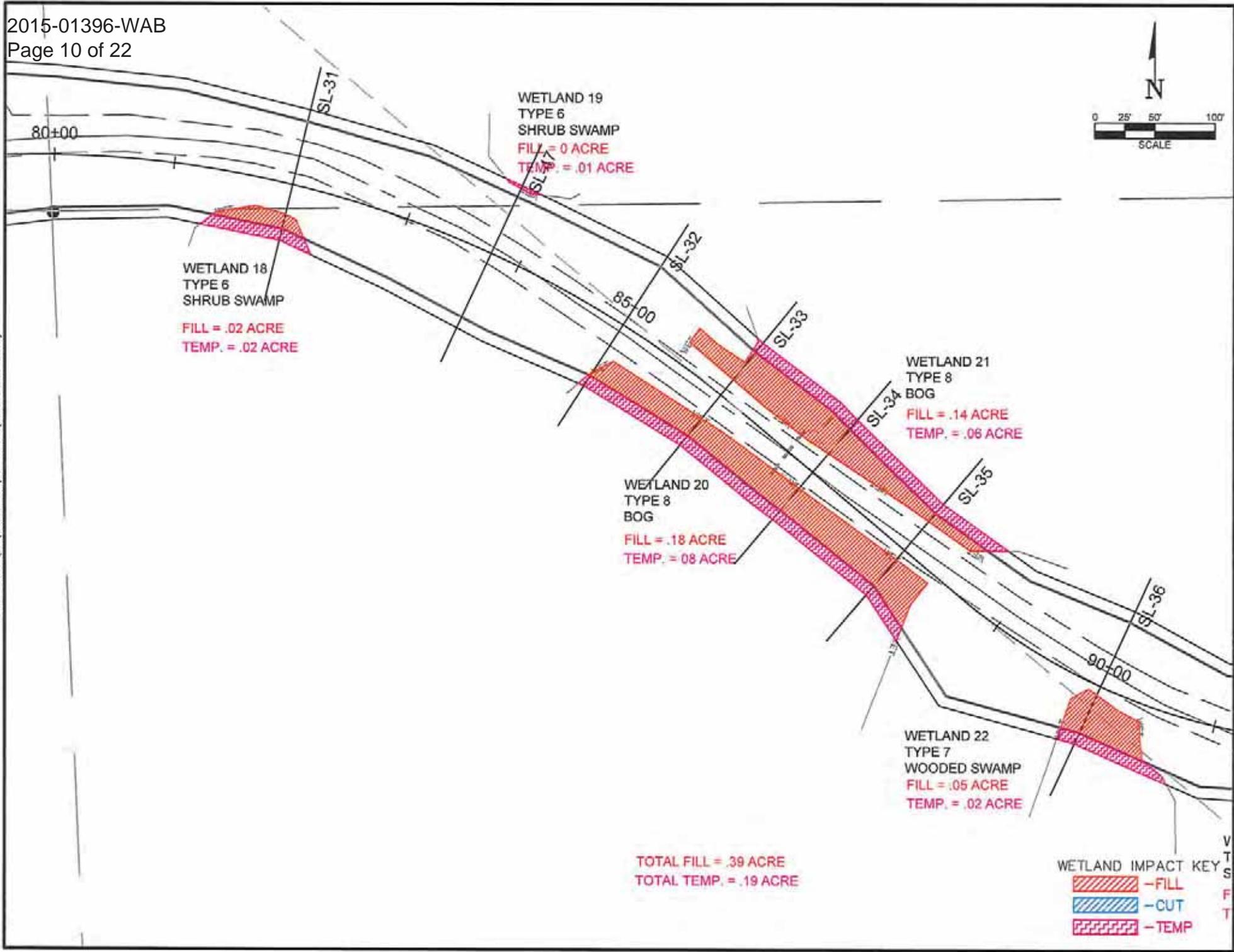
WETLAND 17
TYPE 8
BOG
FILL = .73 ACRE
TEMP. = .17 ACRE

TOTAL FILL = .73 ACRE
TOTAL TEMP. = .17 ACRE

WETLAND IMPACT KEY

	-FILL
	-CUT
	-TEMP

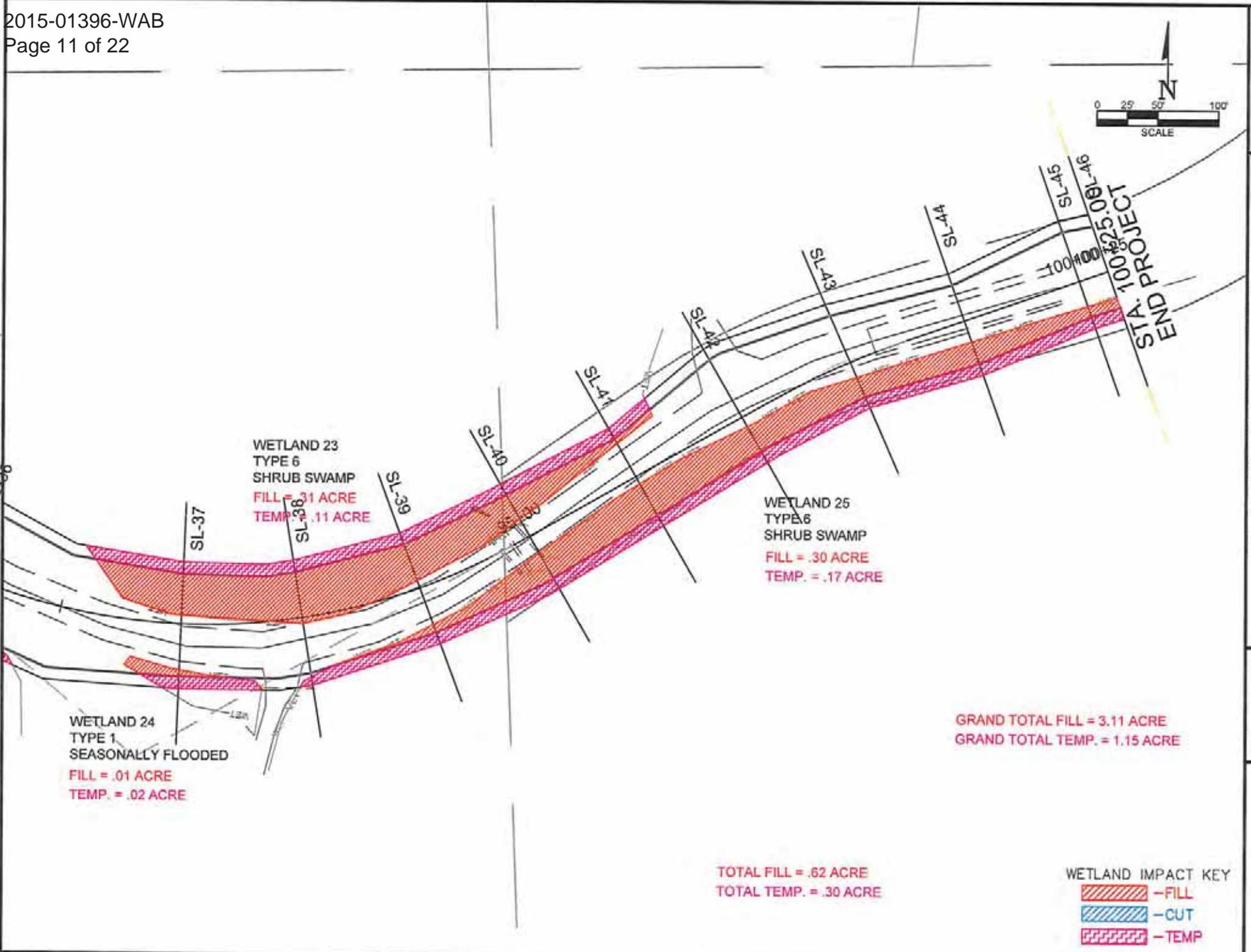
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WETLAND IMPACT KEY
- FILL
- CUT
- TEMP

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WETLAND 23
TYPE 6
SHRUB SWAMP
FILL = .31 ACRE
TEMP. = .11 ACRE

WETLAND 24
TYPE 1
SEASONALLY FLOODED
FILL = .01 ACRE
TEMP. = .02 ACRE

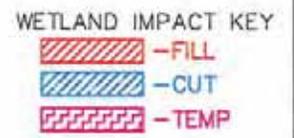
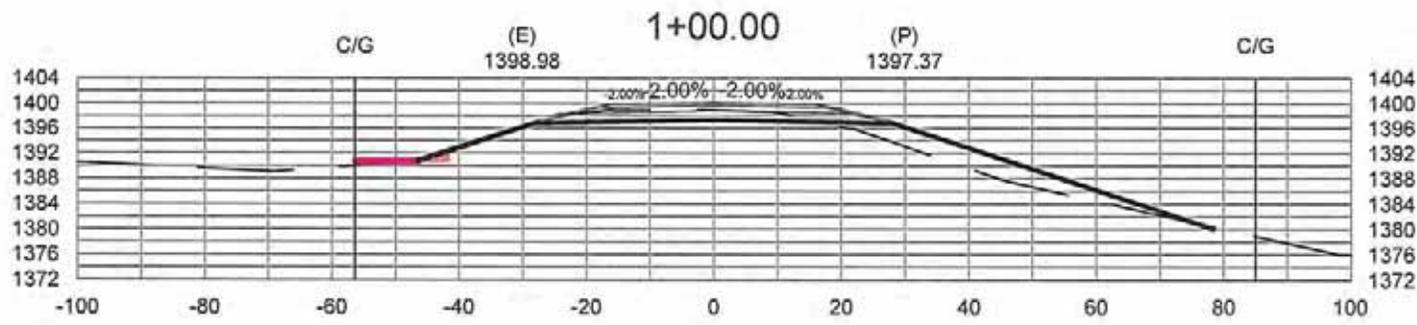
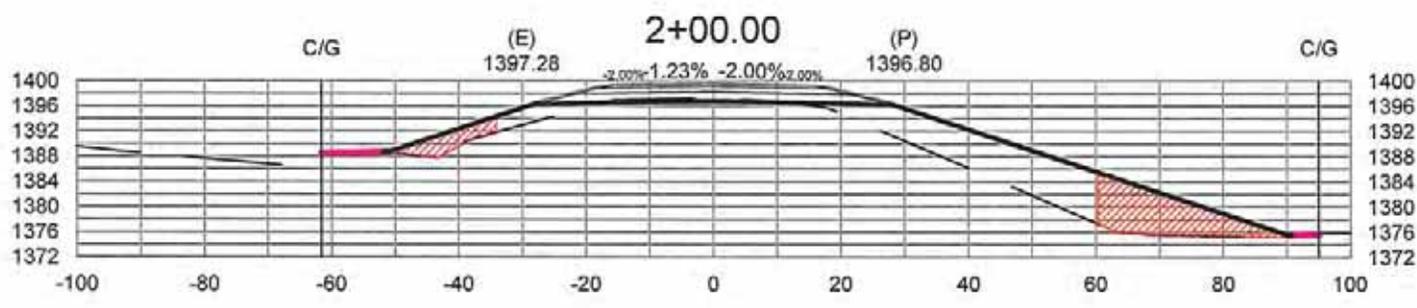
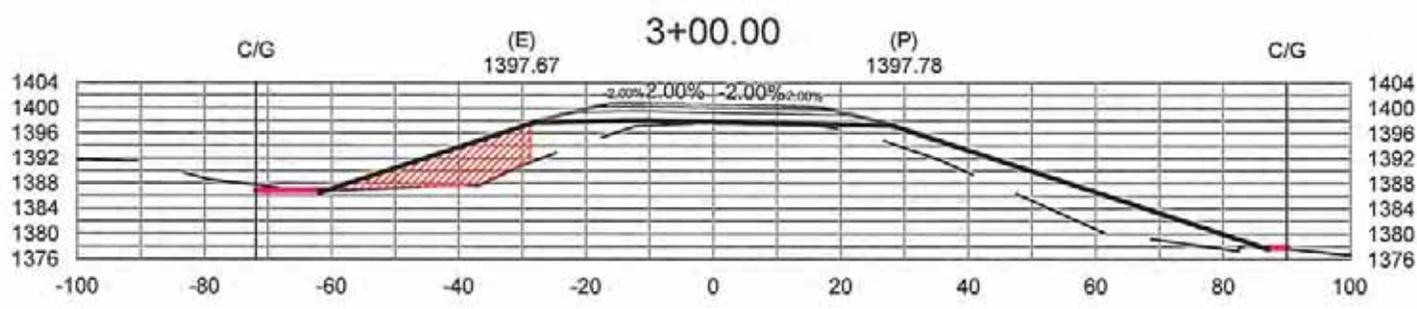
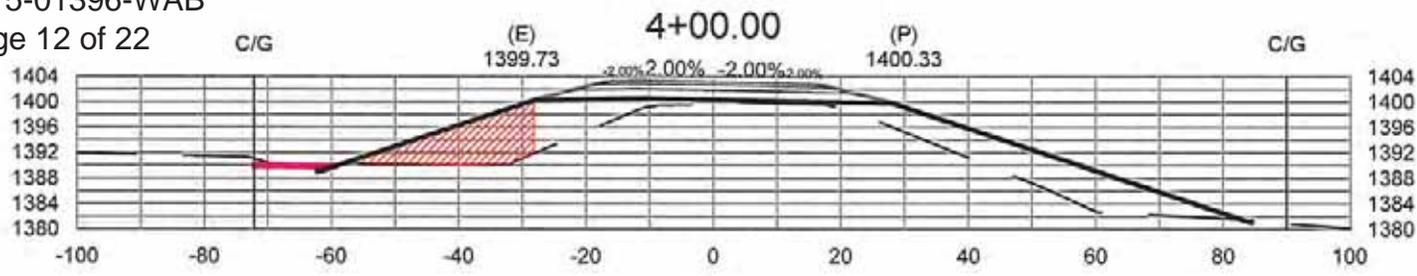
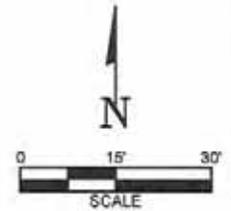
WETLAND 25
TYPE 6
SHRUB SWAMP
FILL = .30 ACRE
TEMP. = .17 ACRE

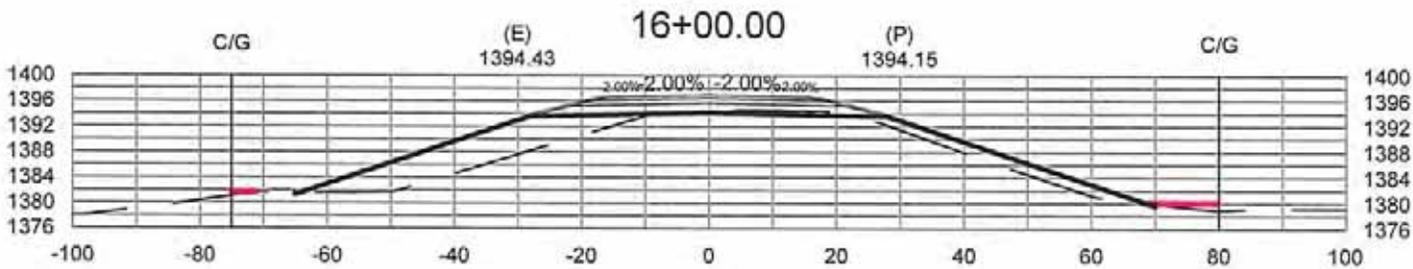
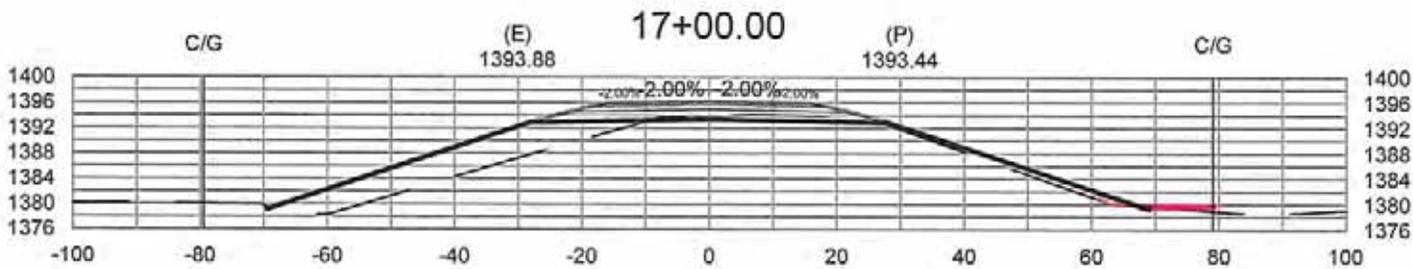
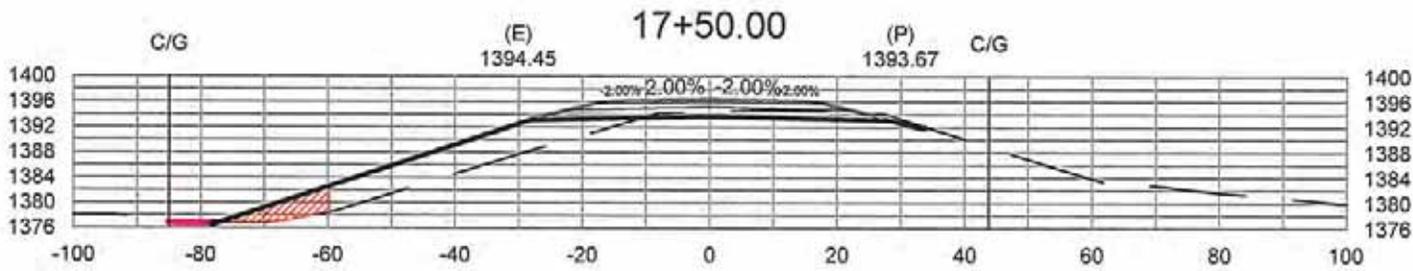
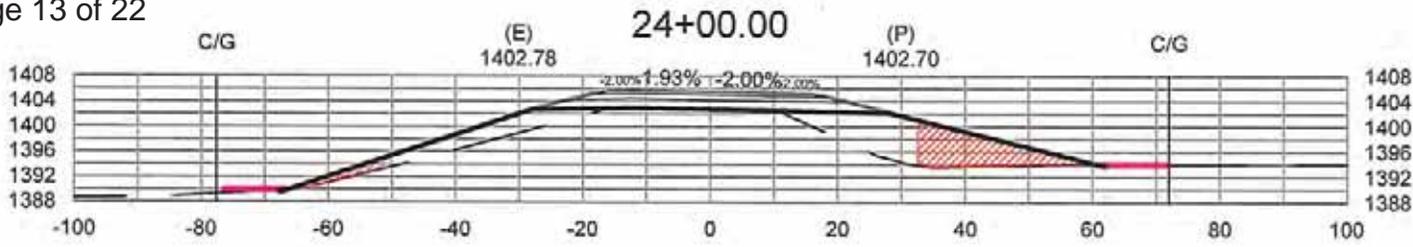
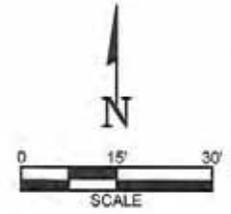
GRAND TOTAL FILL = 3.11 ACRE
GRAND TOTAL TEMP. = 1.15 ACRE

TOTAL FILL = .62 ACRE
TOTAL TEMP. = .30 ACRE

WETLAND IMPACT KEY
-FILL
-CUT
-TEMP

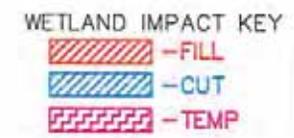
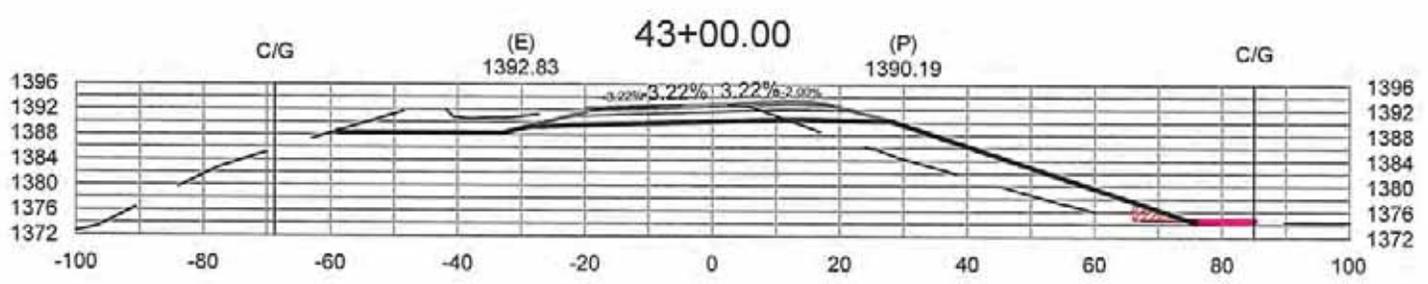
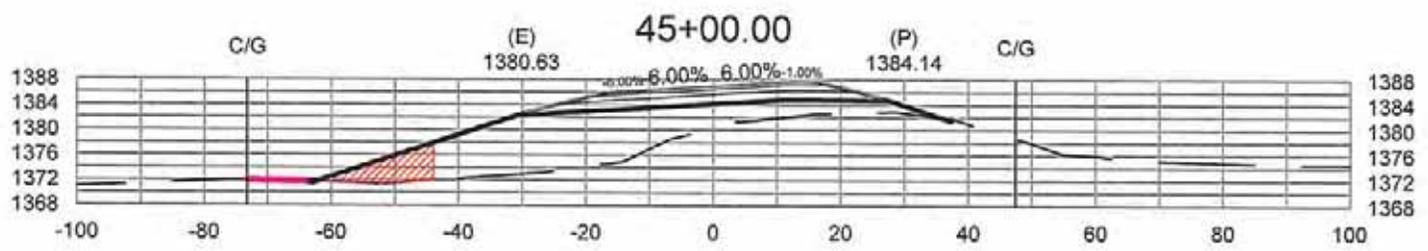
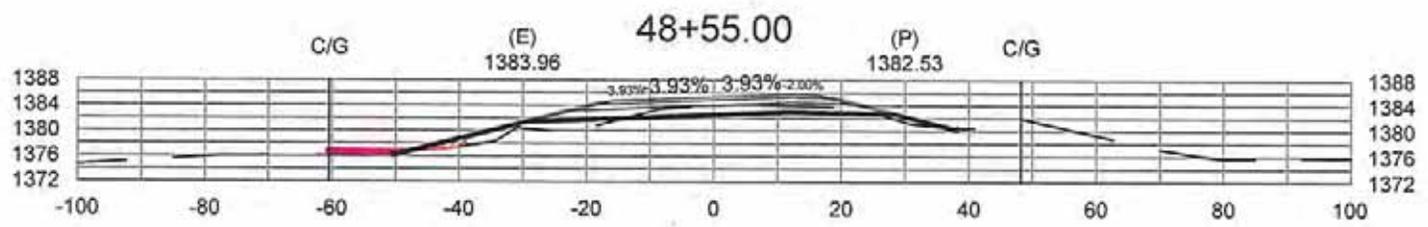
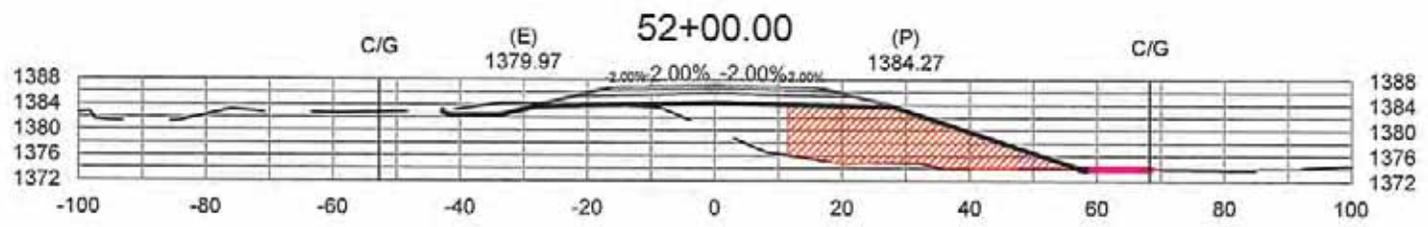
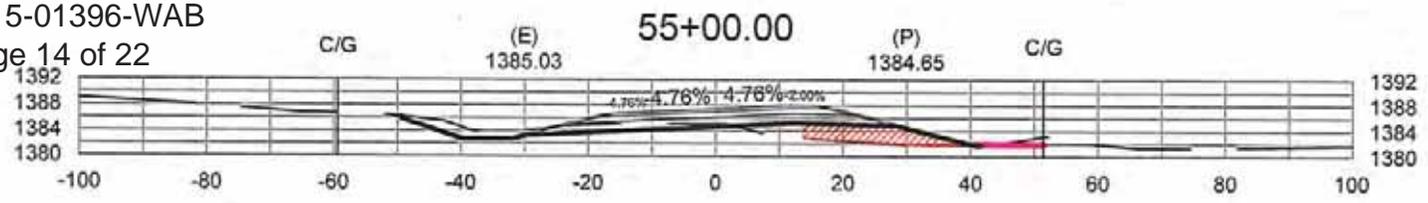
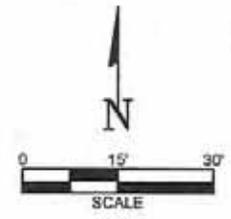
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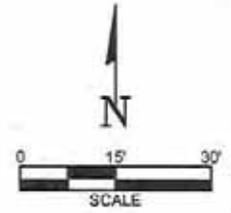




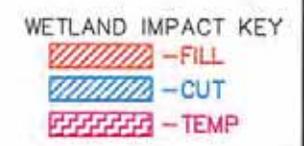
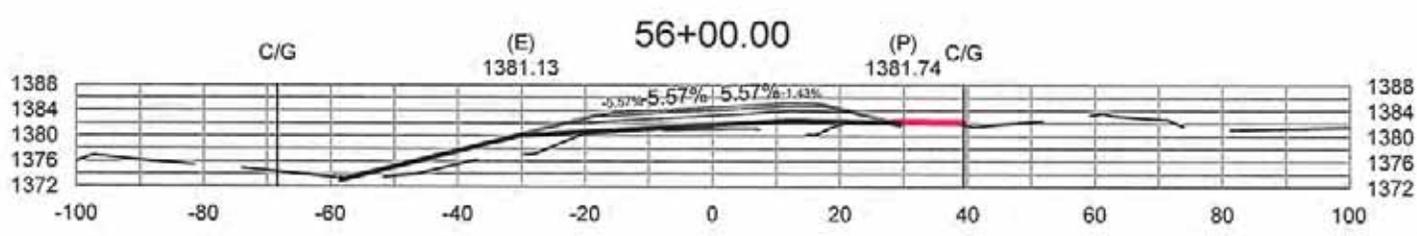
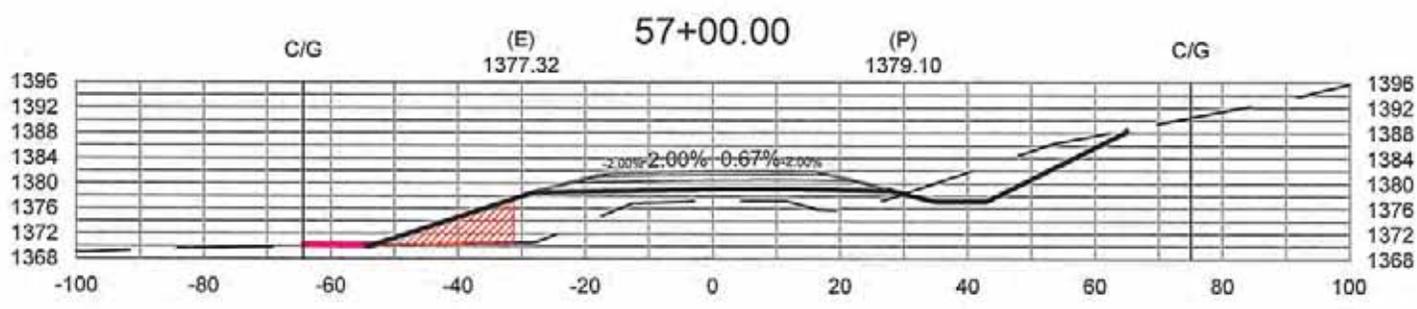
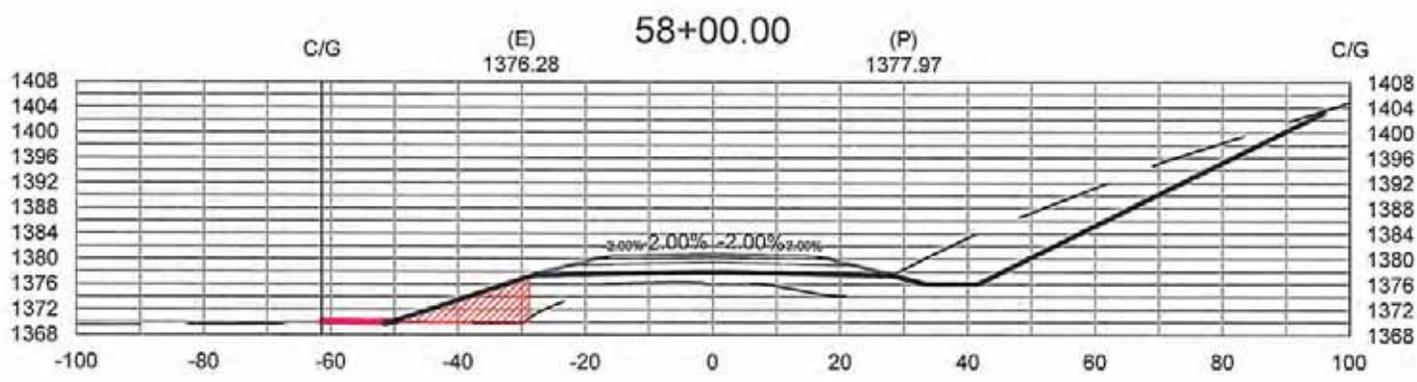
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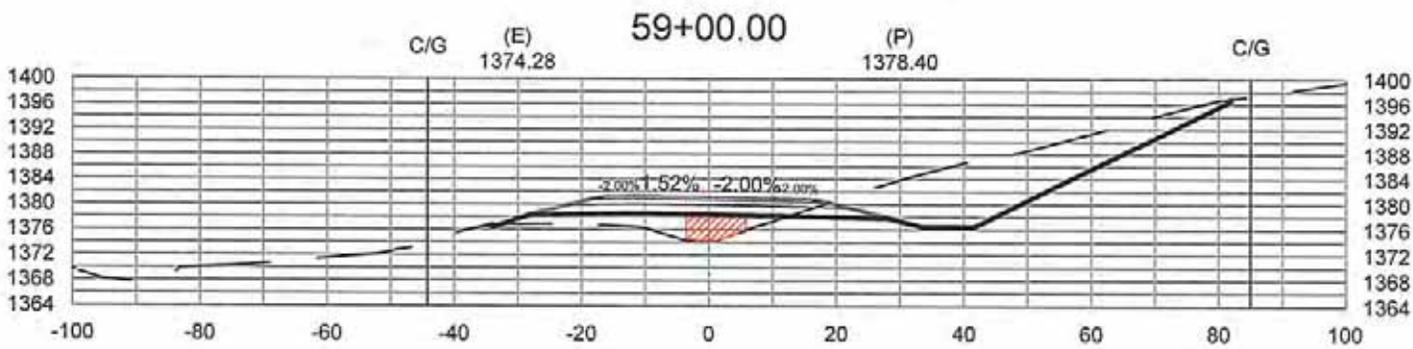
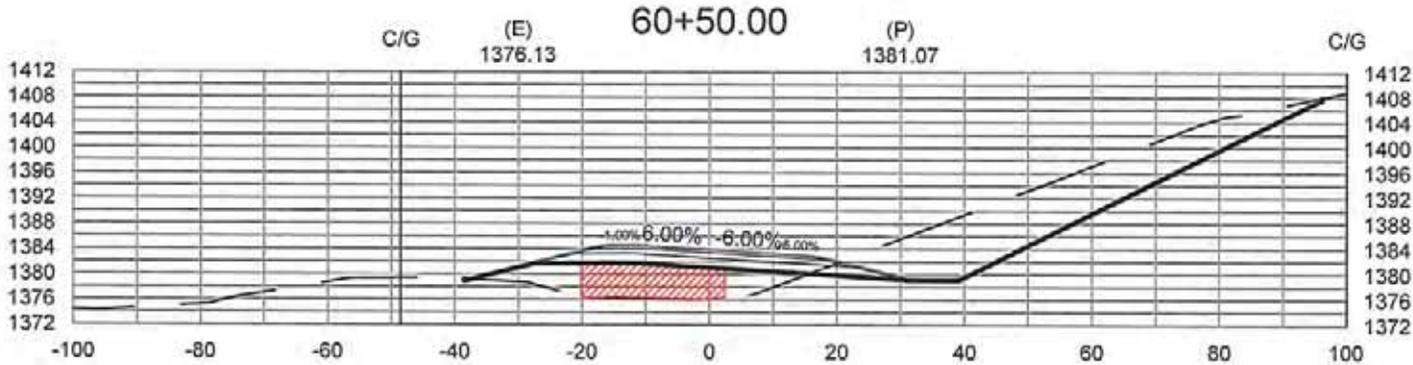
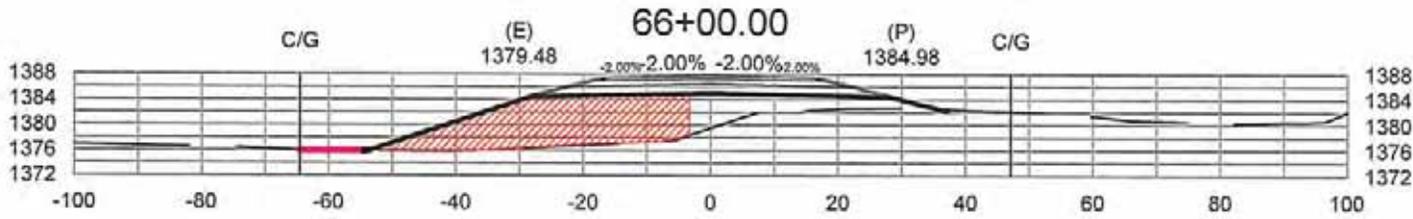
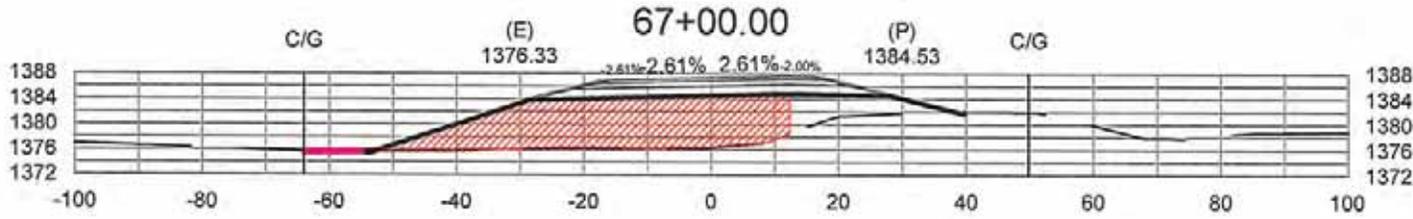
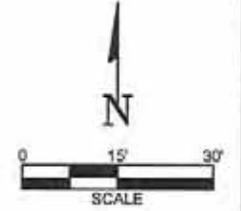
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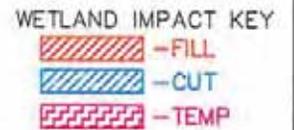
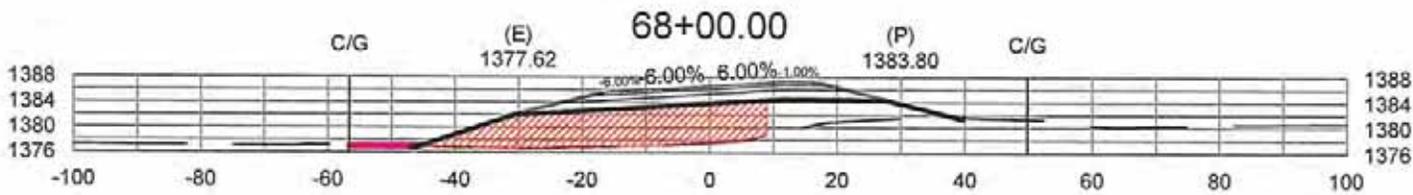
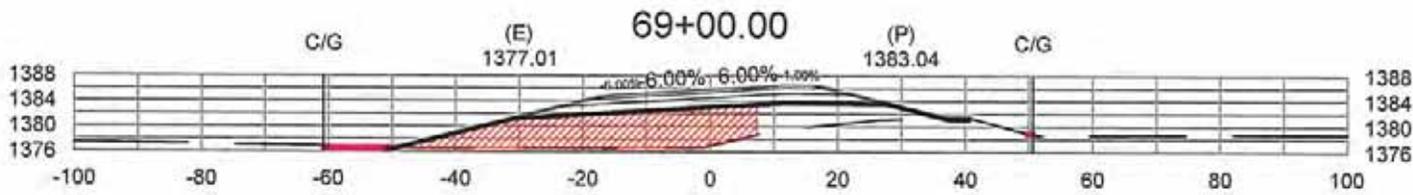
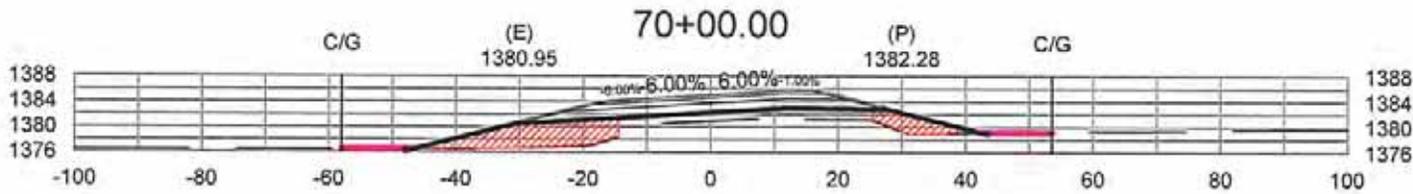
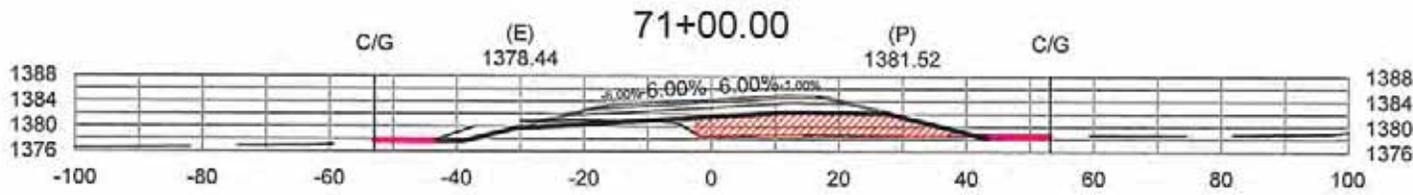
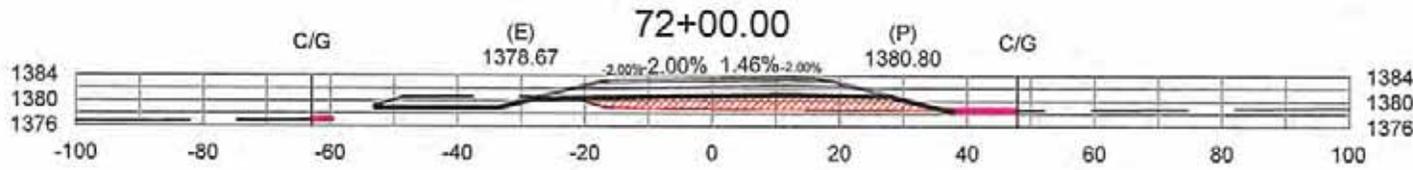
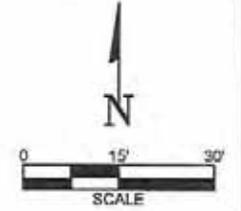




WETLAND IMPACT KEY

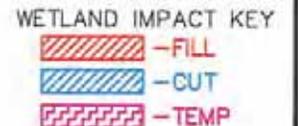
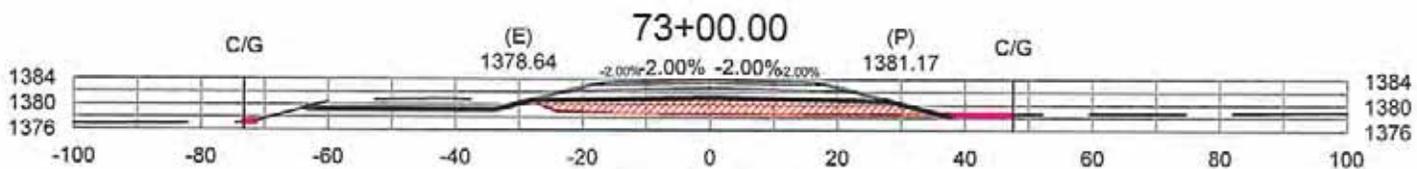
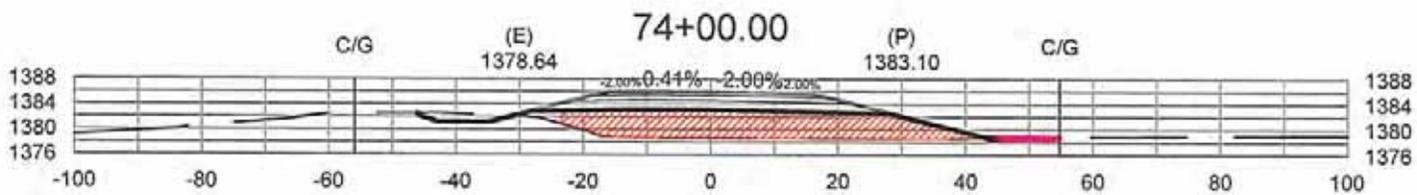
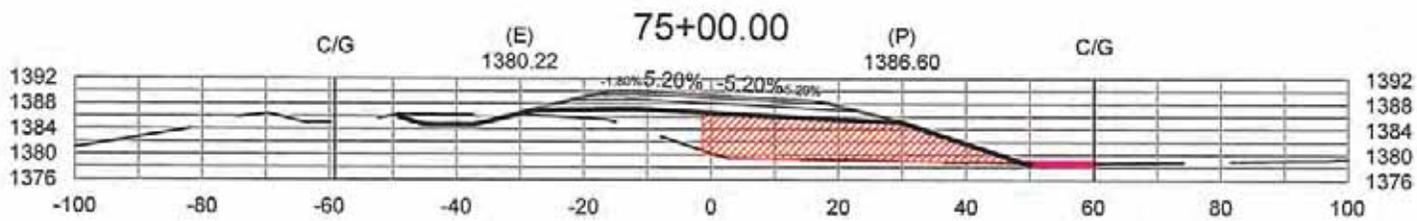
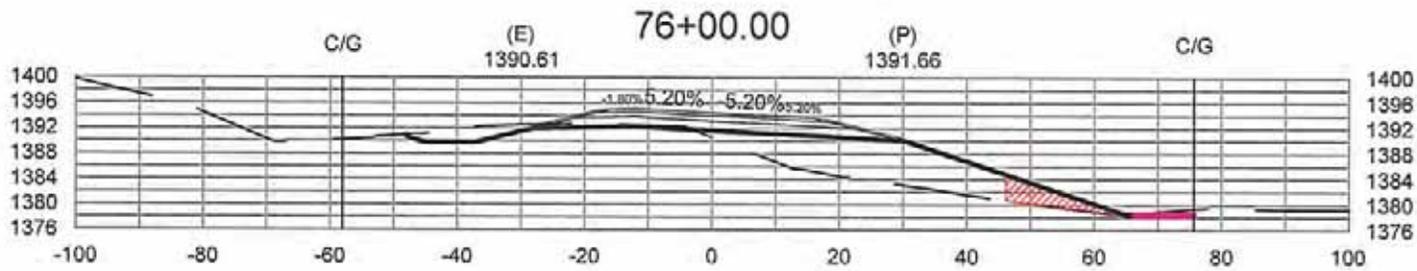
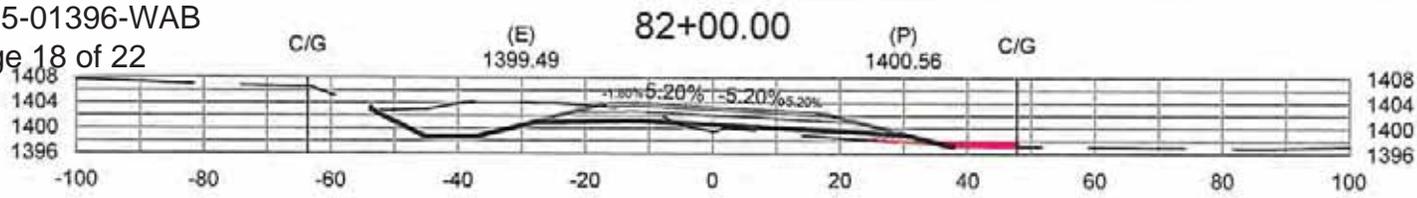
- FILL
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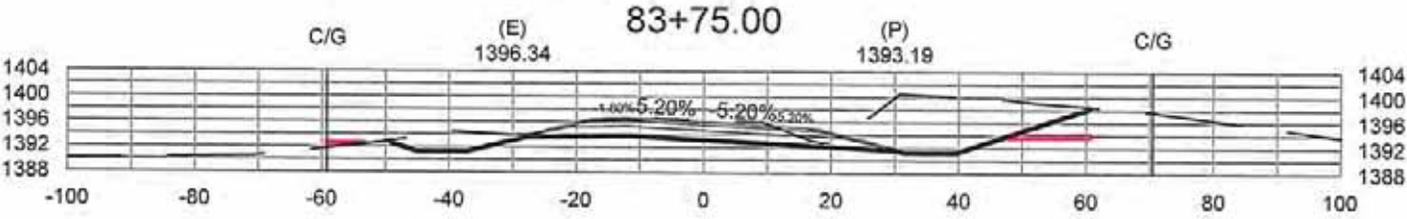
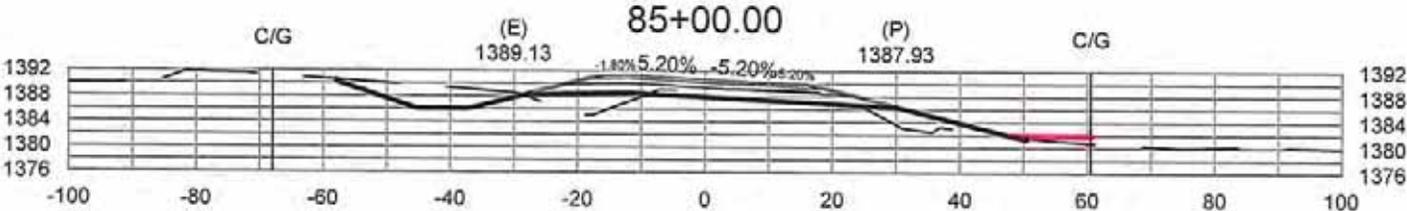
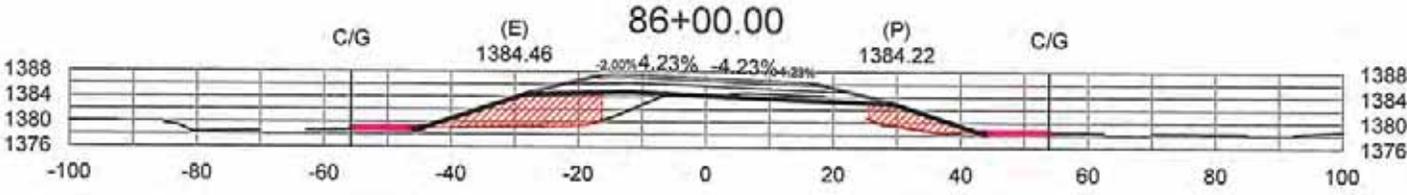
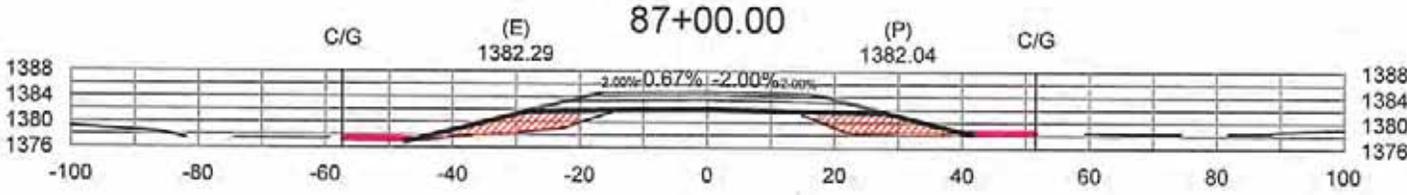
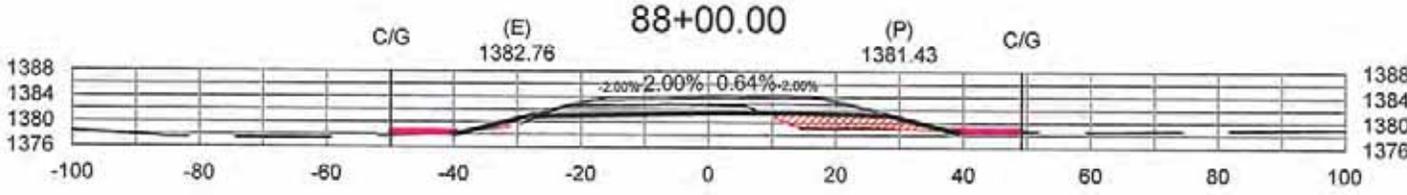
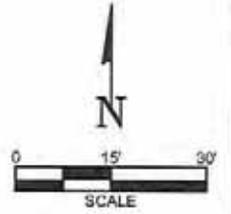
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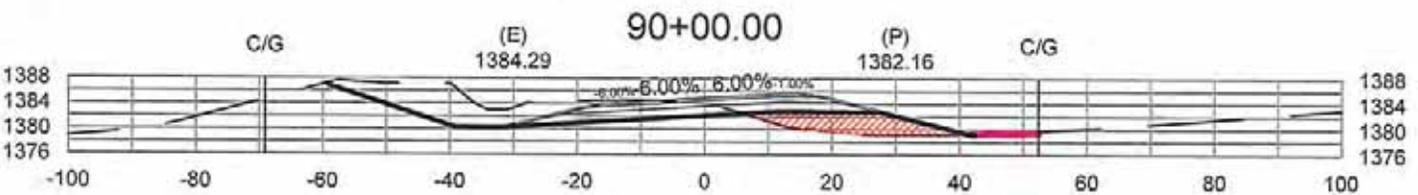
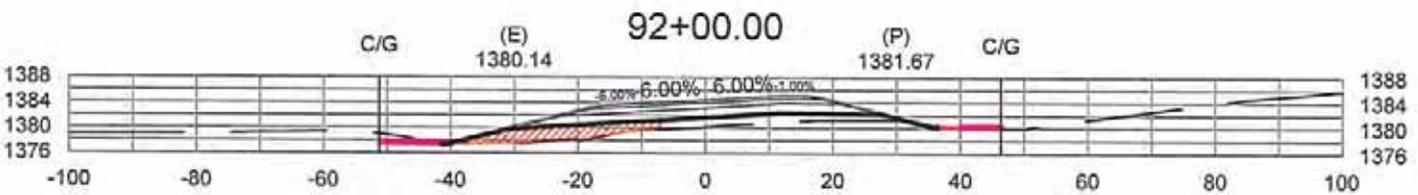
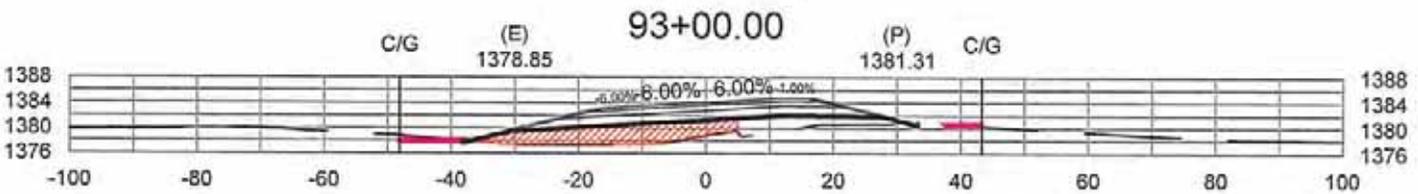
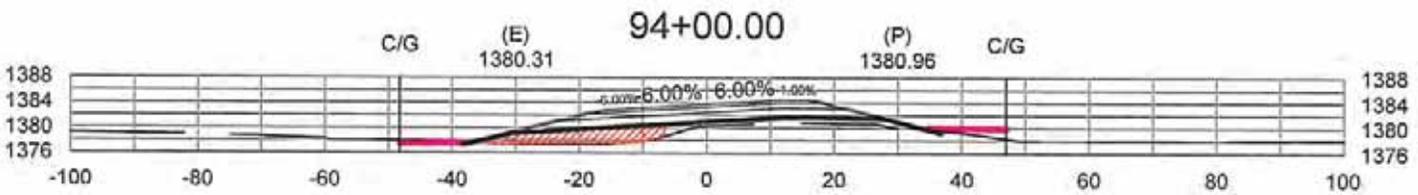
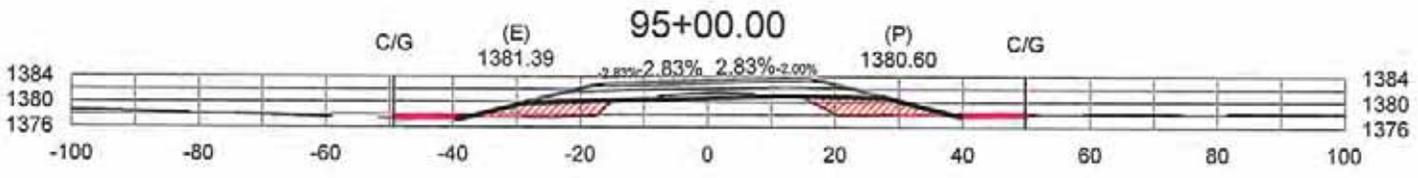
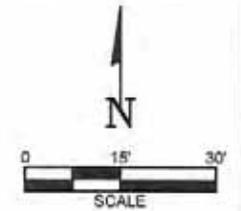




WETLAND IMPACT KEY

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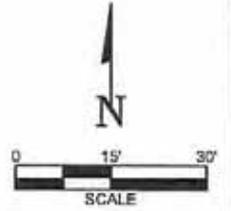
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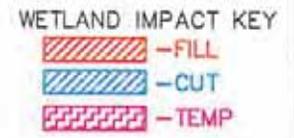
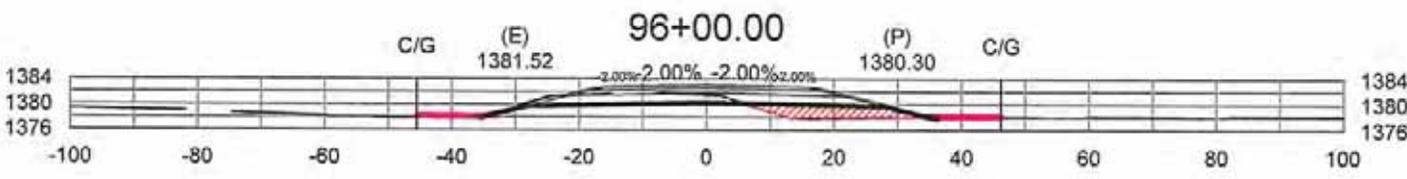
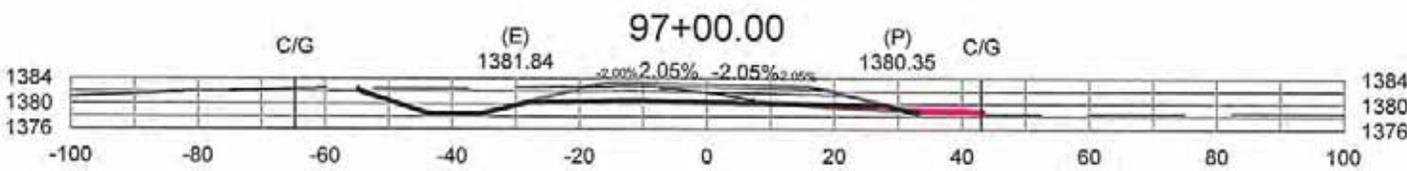
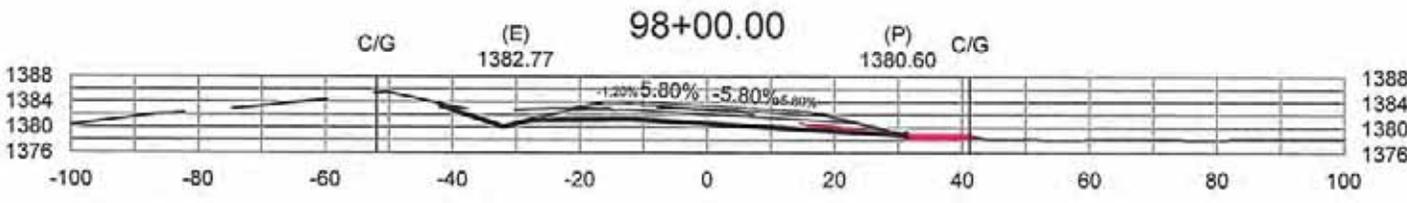
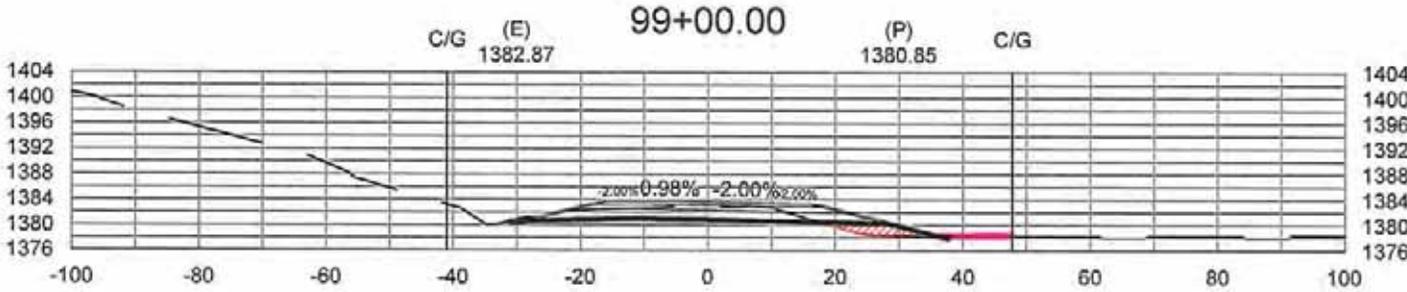
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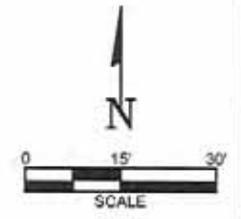
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DATE: 05-01-2015

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