

Information for File #2013-04725-CLJ

Applicant: Darren Laesch, Minnesota Department of Transportation
Corps Contact: Craig L. Jarnot
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E-Mail: Craig.L.Jarnot@usace.army.mil
Phone: (218) 444-6381
Primary County : Kittson
Sec/Township/Range: NW corner of Sec. 28, T. 159N., R. 50W. to SE¼ of Sec 24, T. 159N., R. 46W.
Information Complete On: December 16, 2013
Posting Expires On: December 30, 2013
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 (CWA) 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. The jurisdictional review determines the scope of the projects regulated impacts and compensatory mitigation requirements.

PROJECT PURPOSE & NEED: The purpose of the project is to rehabilitate approximately 28 miles of Trunk Highway 11 by improving the pavement strength and pavement ride quality, replacing degraded drainage infrastructure, and to correcting inslope sloughing along a portion of the roadway. The rehabilitation begins near the Red River of the North and ends at Karlstad, MN.

PROJECT DESCRIPTION: The 28-mile rehabilitation of TH 11 would include a mill and overlay with new bituminous to improve the ride quality. The project would also replace 10 culverts throughout the 28-mile roadway which have been identified as degraded and needing replacement. Between approximate stations 608+00 to 678+00 the southern inslope is eroding and sloughing into the roadside/County Ditch number 16. To address inslope problems, the shoulder would be slightly widened and the inslope would be built to a 4:1(H:V) slope which will result in filling into County Ditch number 16. The ditch would be replaced beginning at the toe of the inslope and would be replaced to its as-built dimensions. Ditch dimension would not be increased. No excavation required for replacing County Ditch number 16 would be located in wetland. Fill impacts for the culvert replacements range from 431 square feet to 8,427 square feet totaling 25,915 square feet (0.59 acres) of impact. Slough repair would impact 1.8 acres of wet ditch as a result of placement of fill.

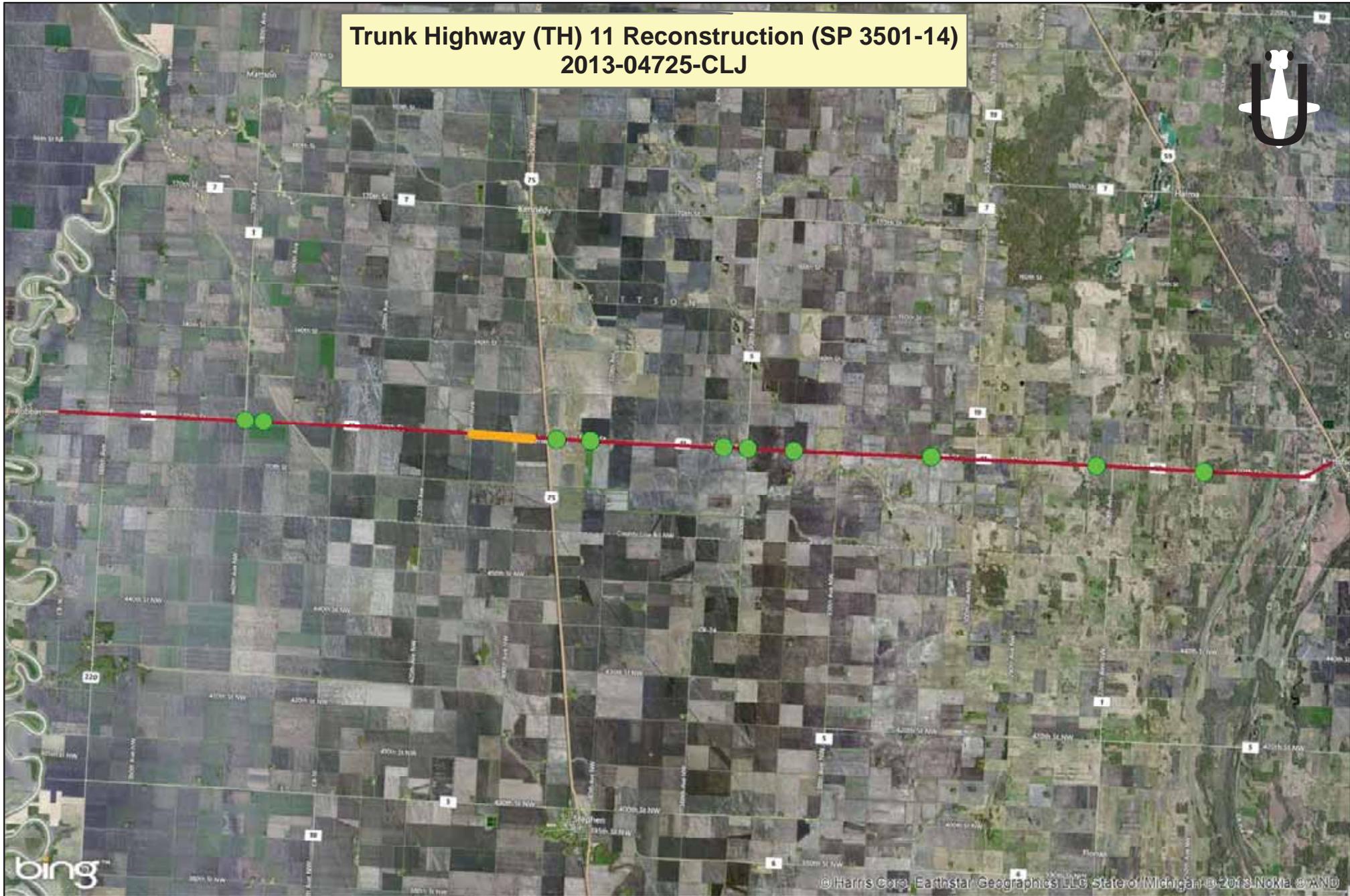
NAME, AREA AND TYPES OF WATERS (INCLUDING WETLANDS) SUBJECT TO LOSS: Culvert replacements would impact approximately 0.59 acres of fresh wet meadow (Type 2) wetland. Inslope repair would impact approximately 1.80 acres of fresh wet meadow (Type 2) wetland located in the ditch bottom.

ALTERNATIVES CONSIDERED: The no-build alternative would avoid all impacts to wetlands; however, the no-build alternative was dismissed as it would not meet the project purpose to improve road conditions and degraded culverts.

COMPENSATORY MITIGATION: The applicant has proposed compensatory mitigation for the 0.59 acres of impact to wetlands as a result of culvert replacement through the Minnesota Board of Soil and Water Resources (BWSR) Road Replacement Program.

Drawings: 2013-04725-CLJ 1 of 9 through 9 of 9. See attached

Trunk Highway (TH) 11 Reconstruction (SP 3501-14) 2013-04725-CLJ



(TH11 Culvert Replacement (Impacts to Aquatic Resources)

— Inslope Work (Fill impact to Aquatic Resource)

— TH11_Mill/Overlay (No impact to Aquatic Resources)

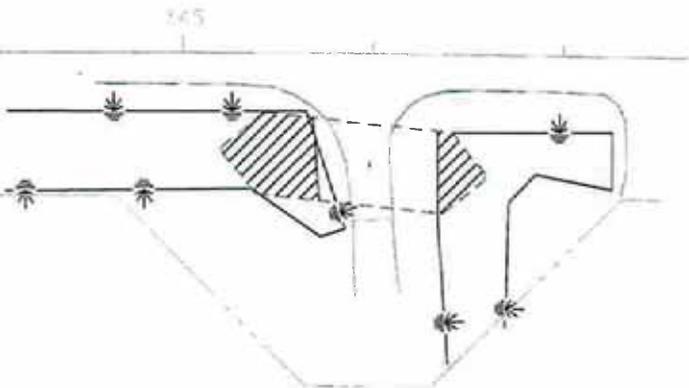


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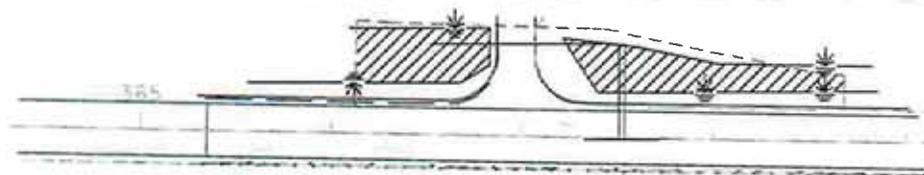
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Wet Ditch
 2,424 sq ft / 0.06 ac.
 Mile Post 4.9



T159N R49W Sect. 19

Wet Ditch
 4,377 sq ft / 0.10 ac.
 Mile Post 5.3



T159N R49W Sect. 19

Wet Ditch
 22,981 sq ft / 0.5 ac.
 Mile Post 10



T159N R48W Sect. 19

EROSION CONTROL, WETLAND IMPACT LEGEND	
	DRAINAGE FLOW ARROW
	DITCH CHECK TYPE 1
	DITCH CHECK TYPE 2
	DITCH CHECK TYPE 3
	RIPRAP OUTLET
	WET DITCH
	RIPRAP NON STANDARD
	EROSION CONTROL BLANKET CAT 3
	STEEL FENCE, MACHINE INSTALLED
	SILT FENCE, BIOROLL
	WETLAND IMPACT (FILL)
	WETLAND IMPACT (CUT)
	WETLAND IMPACT (TEMP.)

I HEREBY CERTIFY THAT THIS PLAN SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

ENGINEER

Sam Hill

LIC. NO. 47554

S.P. 3501-14

TH 11

SHEET OF SHEETS

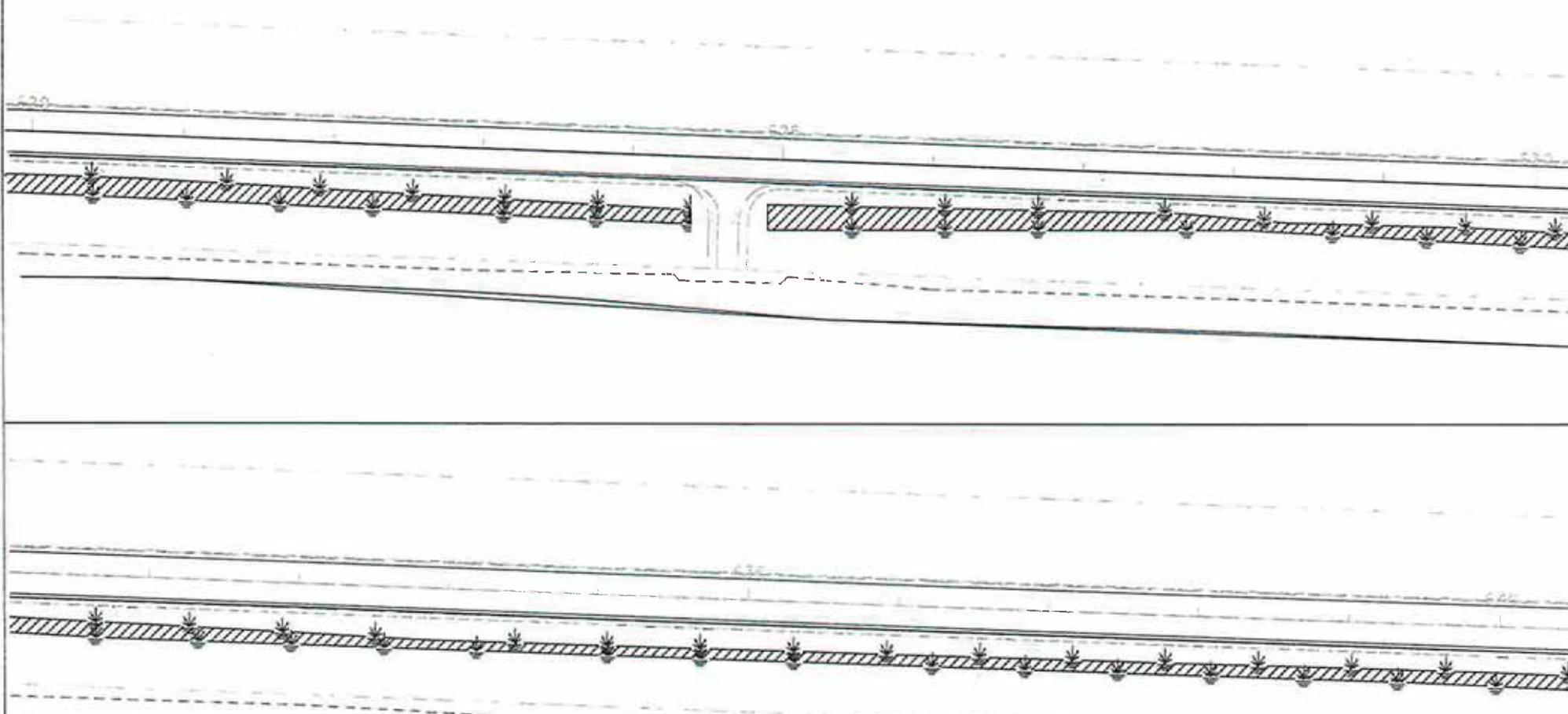
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Wet Ditch
 33,893 sq ft / 0.8 ac.



T159N R48W Sect. 19

EROSION CONTROL / WETLAND IMPACT LEGEND	
	DITCH CHECK TYPE 1
	DITCH CHECK TYPE 2
	DITCH CHECK TYPE 3
	DITCH CHECK TYPE 5
	DITCH CHECK TYPE T
	RIPRAP OUTLET
	WET DITCH
	RIPRAP NON-STANDARD
	EROSION CONTROL BLANKET CAT 3
	SILT FENCE, MACHINE SLICED
	SILT FENCE, BIOPOLL
	WETLAND IMPACT (SHELL)
	WETLAND IMPACT (GRASS)
	WETLAND IMPACT (SEDE)

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ENGINEER *John Miller* LIC. NO. 47554

S.P. 3501-14 TH 11

SHEET OF SHEETS

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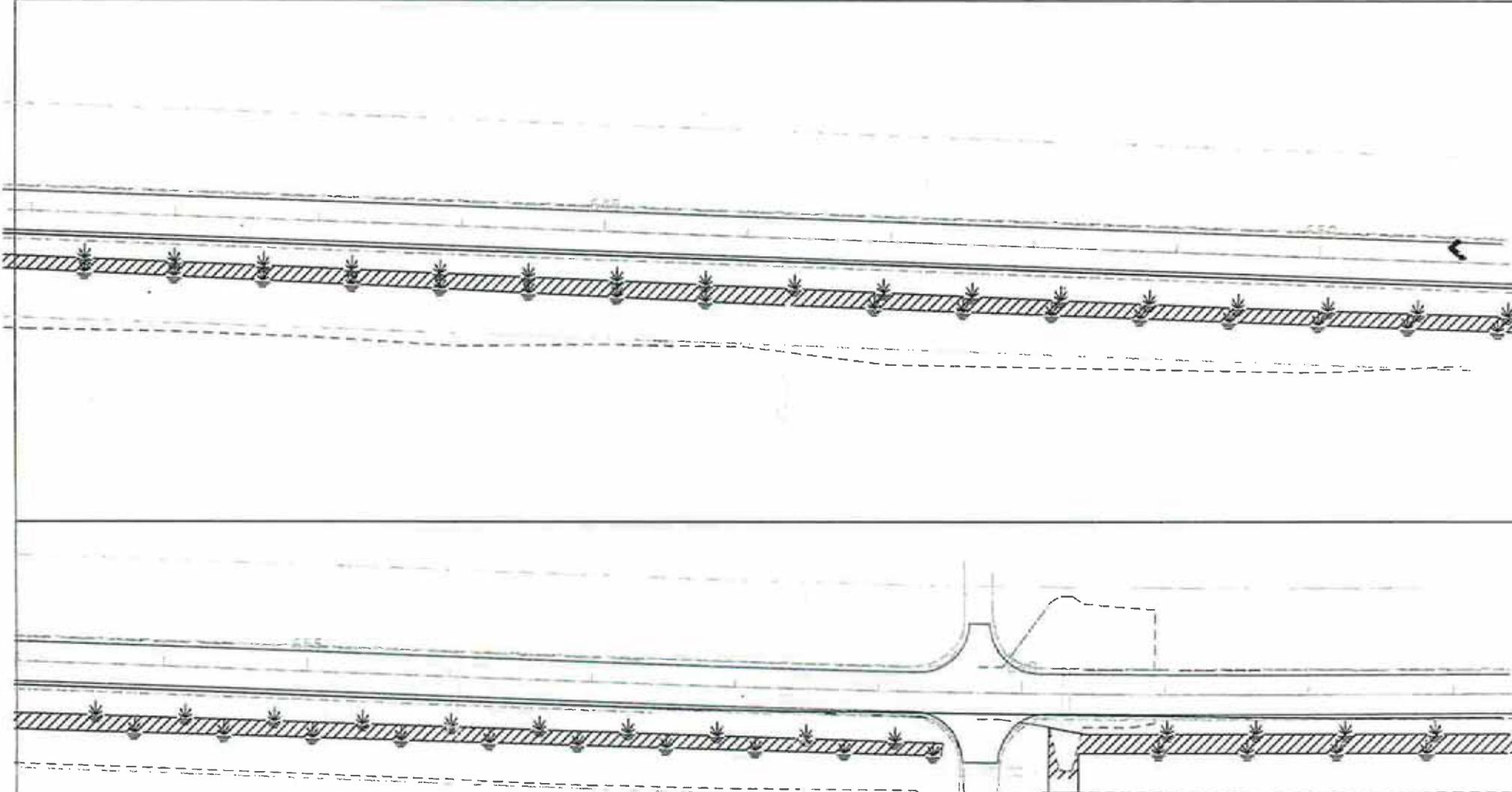
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EROSION CONTROL/WETLAND IMPACT LEGEND

	DITCH CHECK TYPE 1		REPRAP NON STANDARD
	DITCH CHECK TYPE 2		EROSION CONTROL BLANKET CAT 3
	DITCH CHECK TYPE 3		SILT FENCE, MACHINE SLICED
	DITCH CHECK TYPE 5		SILT FENCE, BIOTROLL
	DITCH CHECK TYPE 7		WETLAND IMPACT (FILL)
	REPRAP OUTLET		WETLAND IMPACT (FENCE)
	WET DITCH		WETLAND IMPACT (FENCE 1)

T159N R48W Sect. 19

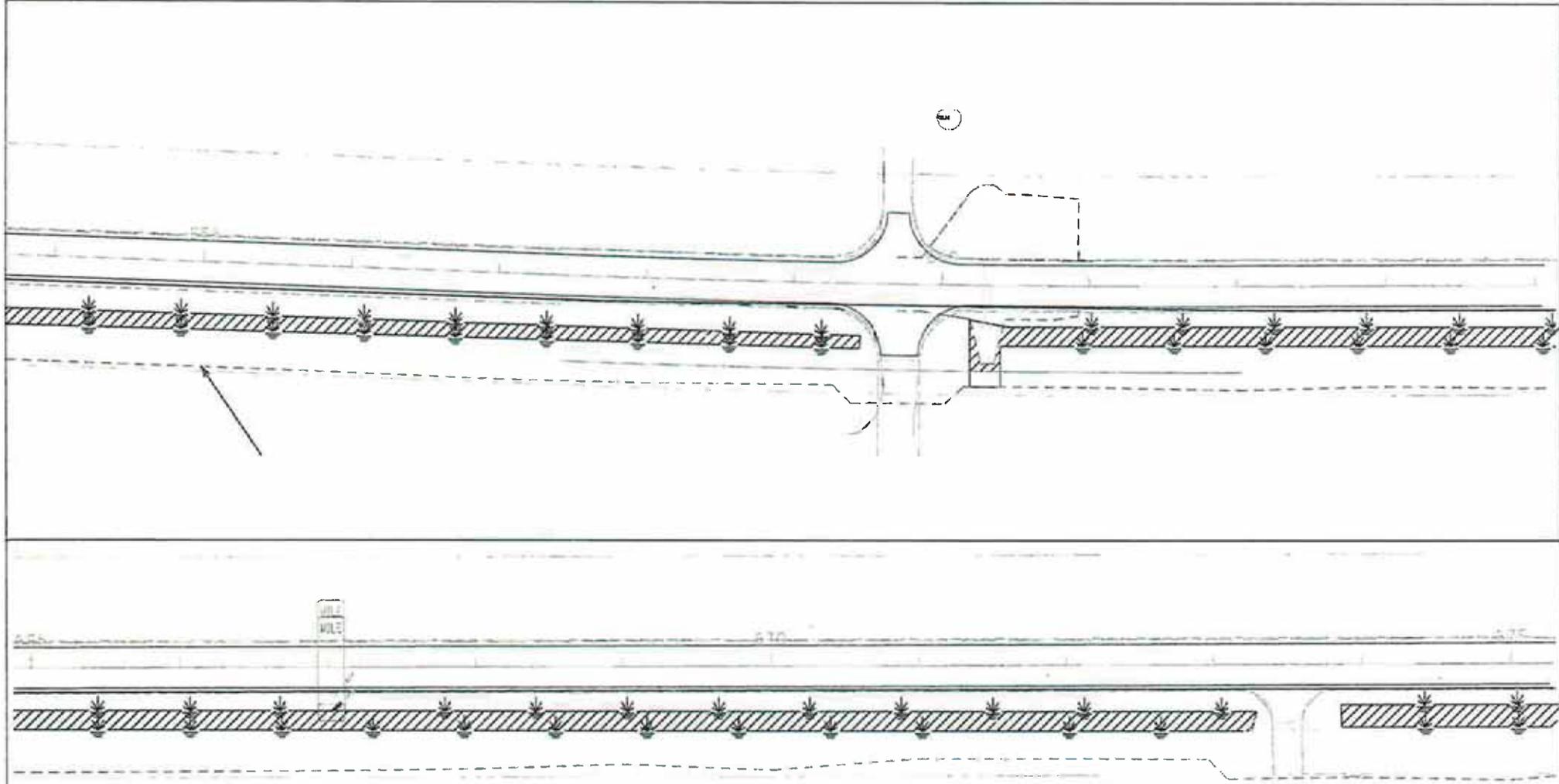
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ENGINEER *Sam Hill*

LIC. NO. 47554

S.P. 3501-14 TH 11

SHEET OF SHEETS



Wet Ditch
 21, 180 sq ft / 0.5 ac.

Mile Post 11

T159N R48W Sect. 19

EROSION CONTROL / WETLAND IMPACT LEGEND	
 DITCH CHECK TYPE 1 DITCH CHECK TYPE 2 DITCH CHECK TYPE 3 DITCH CHECK TYPE 4 DITCH CHECK TYPE 5 RIPRAP BUFFER WET DITCH	 RIPRAP RUN STANDARD EROSION CONTROL BLANKET CAT 3 SELF-FORMING WEAVING NETTING GEOTEXTILE FABRIC RIPRAP BLANKET CAT 3 RIPRAP BLANKET CAT 4 RIPRAP BLANKET CAT 5

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ENGINEER

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S.P. 3501-14

TH 11

SHEET OF SHEETS

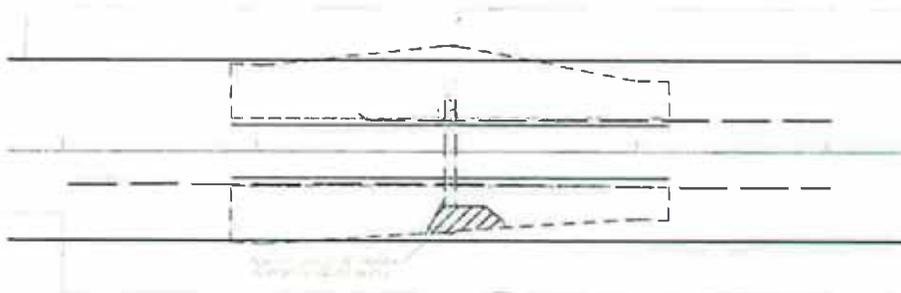
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Approx. Wetland Impact
 431 sq ft / 0.01 ac.
 Type 2

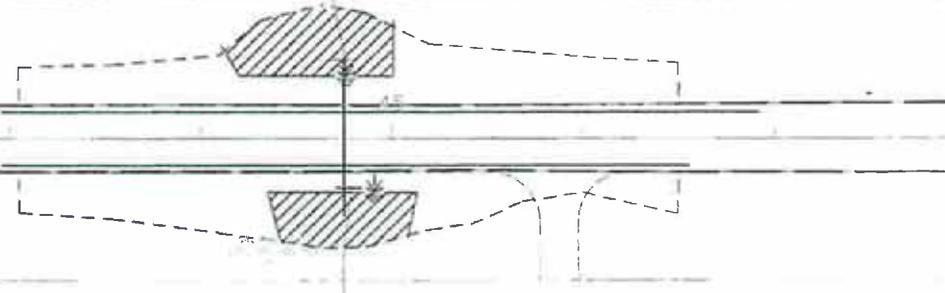
Mile Post 11.72



T159N R48W Sect. 19

Unnamed Stream
 Approx. Wetland Impact
 2,662 sq ft / 0.06 ac.
 Type 2

Mile Post 12.37

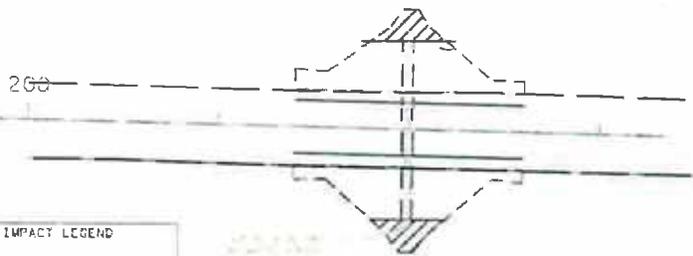


T159N R48W Sect. 20

Approx. Wetland Impact
 1,985 sq ft / 0.05 ac.
 Type 2

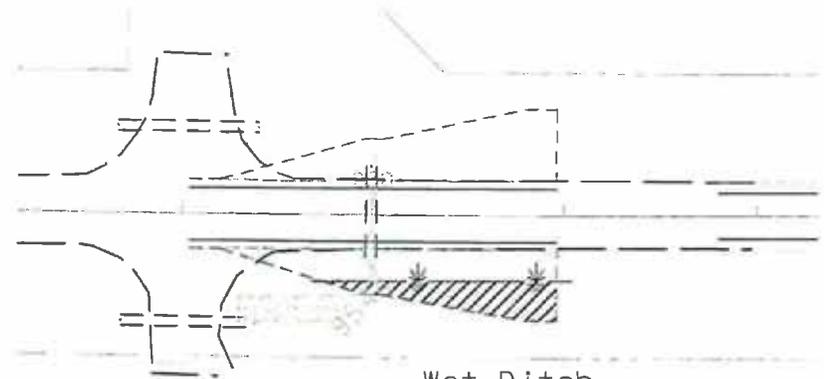
Approx. Wetland Impact
 364 sq ft / 0.01 ac.
 Type 2

Mile Post 15.3



Approx. Wetland Impact
 372 sq ft / 0.01 ac.
 Type 2

T159N R48W Sect. 23



Wet Ditch
 1,503 sq ft / 0.03 ac.

Mile Post 15.8

T159N R48W Sect. 23

EROSION CONTROL / WETLAND IMPACT LEGEND	
	RTPRAP NON-STANDARD
	RTPRAP NON-STANDARD
	RTPRAP NON-STANDARD
	SILT FENCE, MACHINE SLATED
	SILT FENCE, RTPRAP
	WETLAND IMPACT (FILL)
	WETLAND IMPACT (OUT)
	WETLAND IMPACT (TEMP.)

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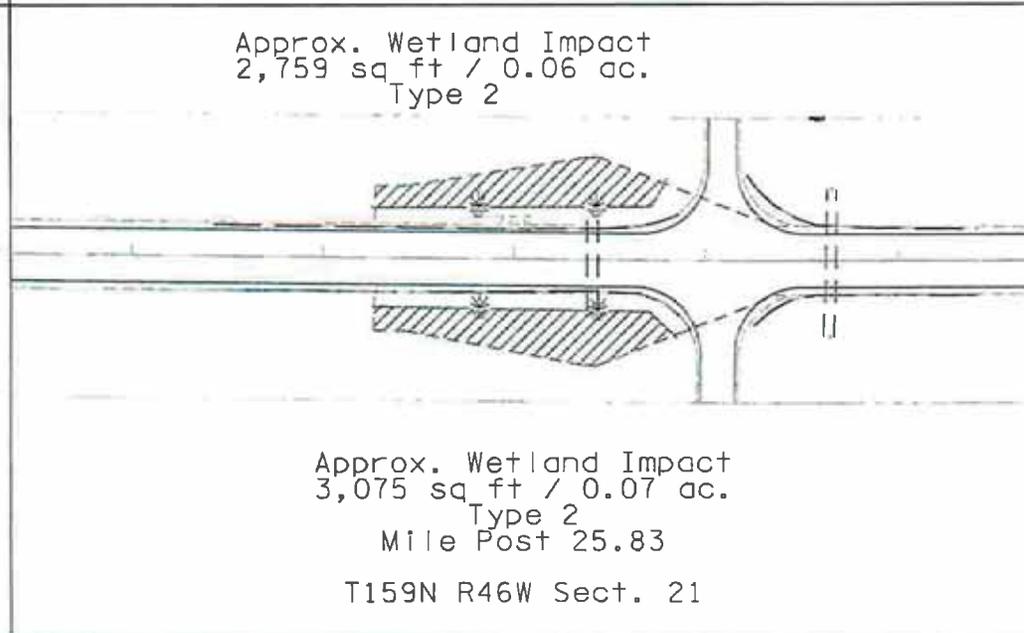
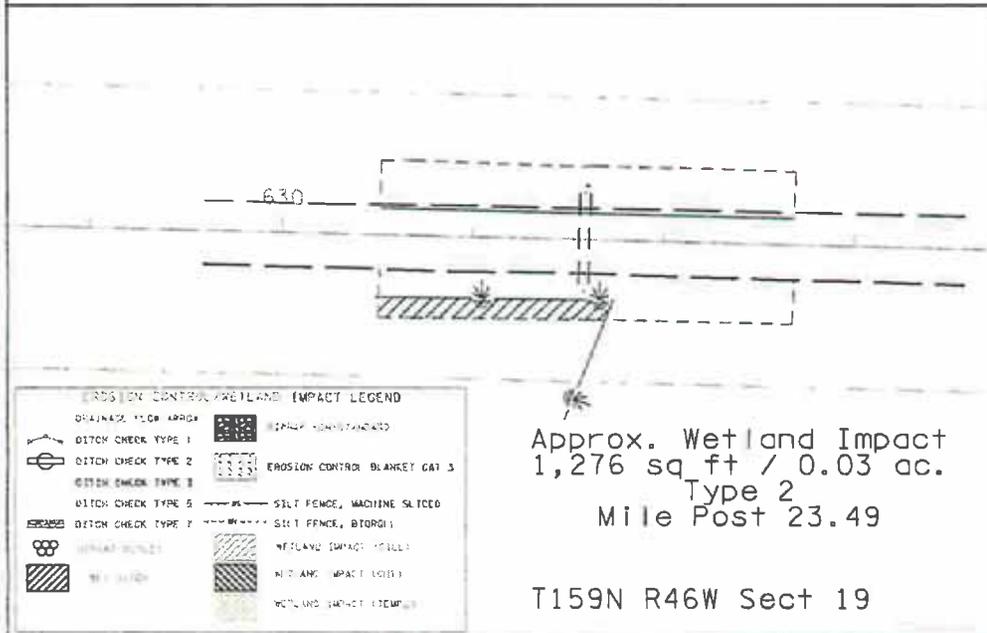
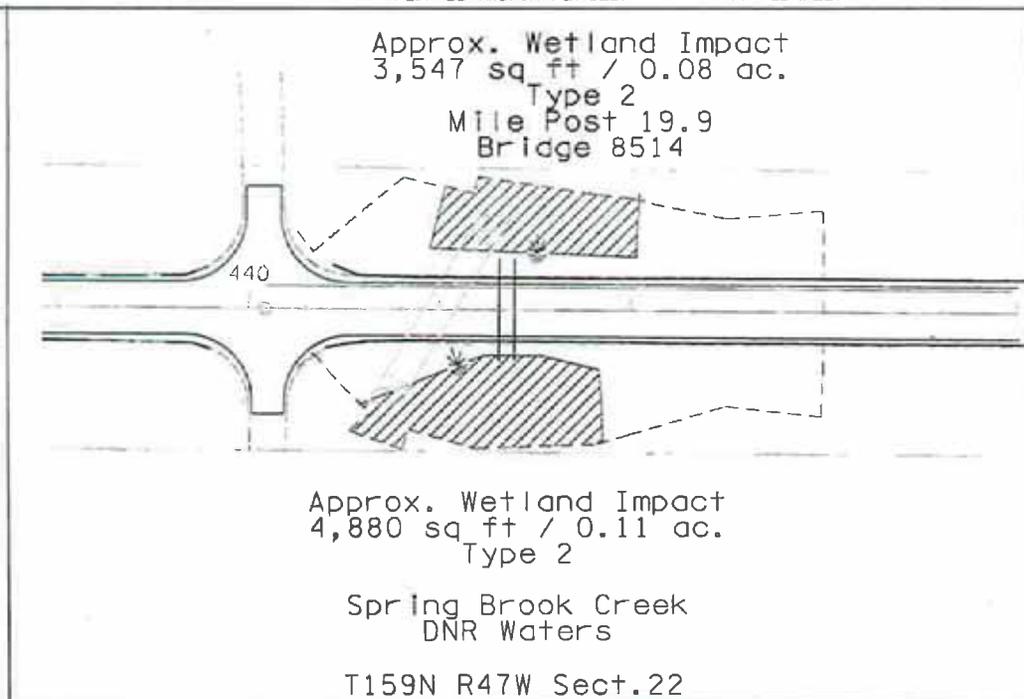
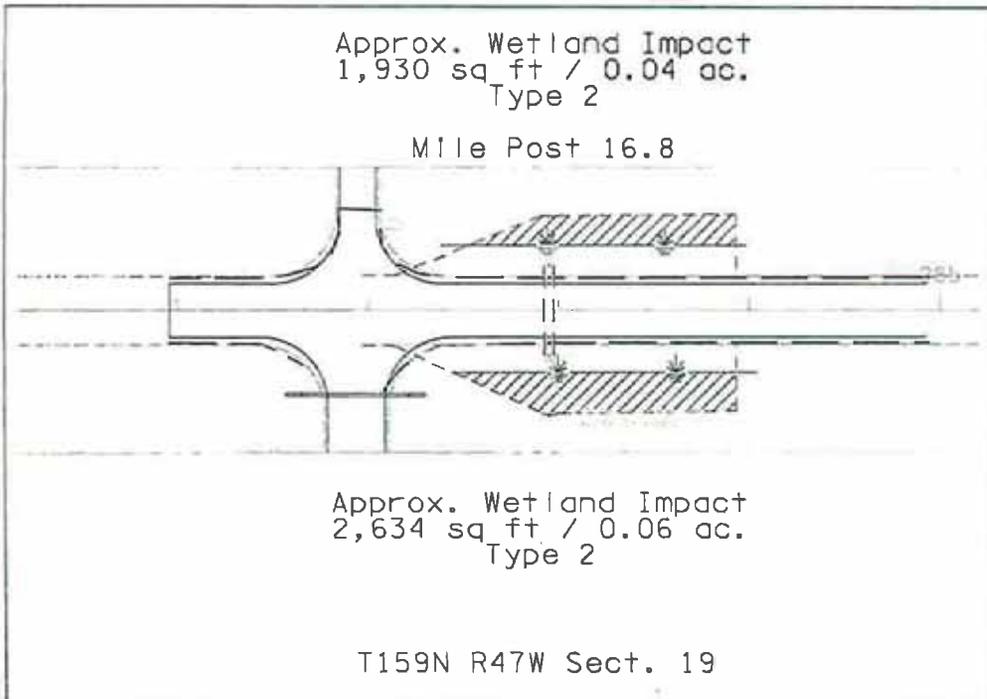
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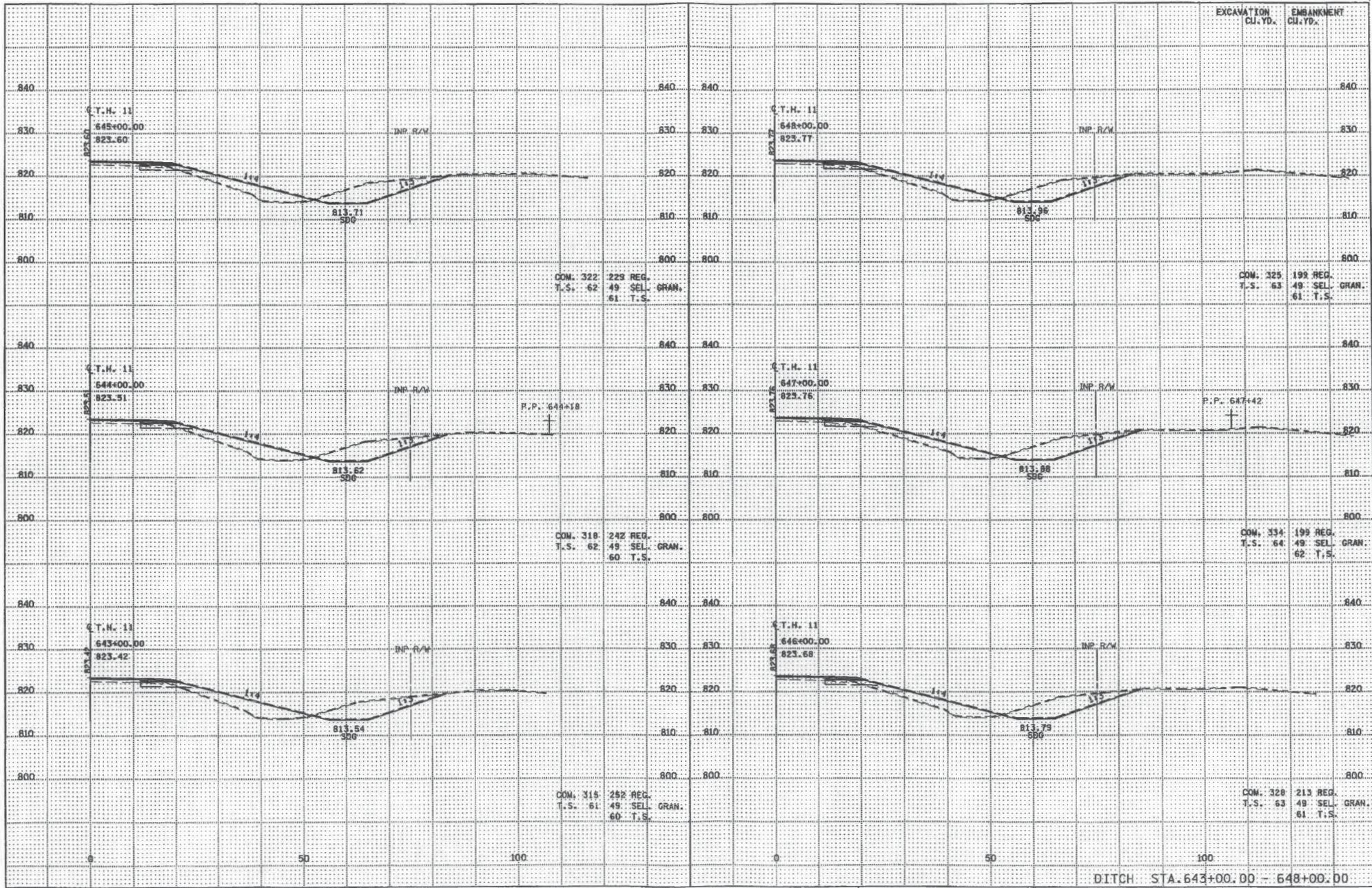
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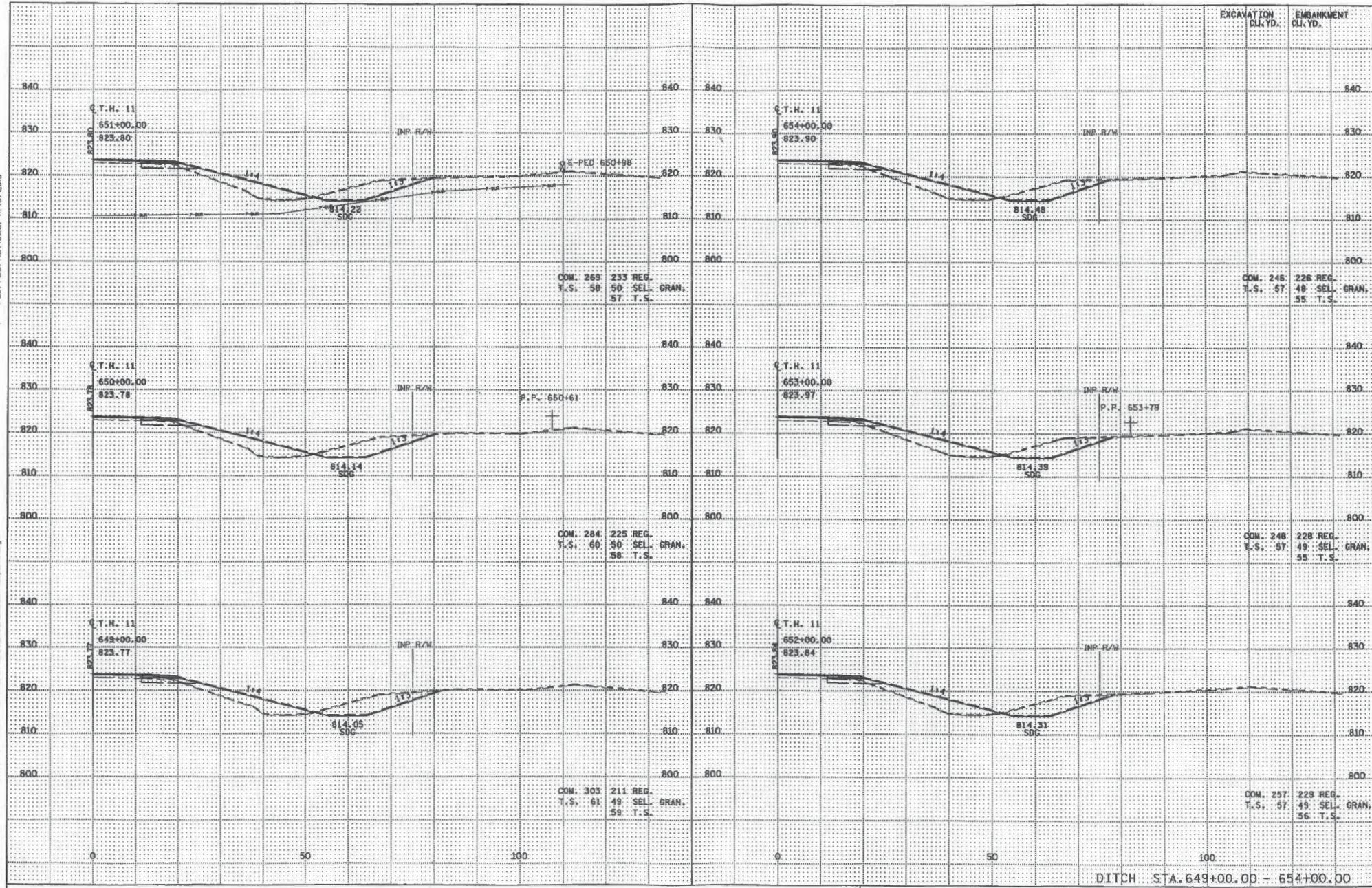
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