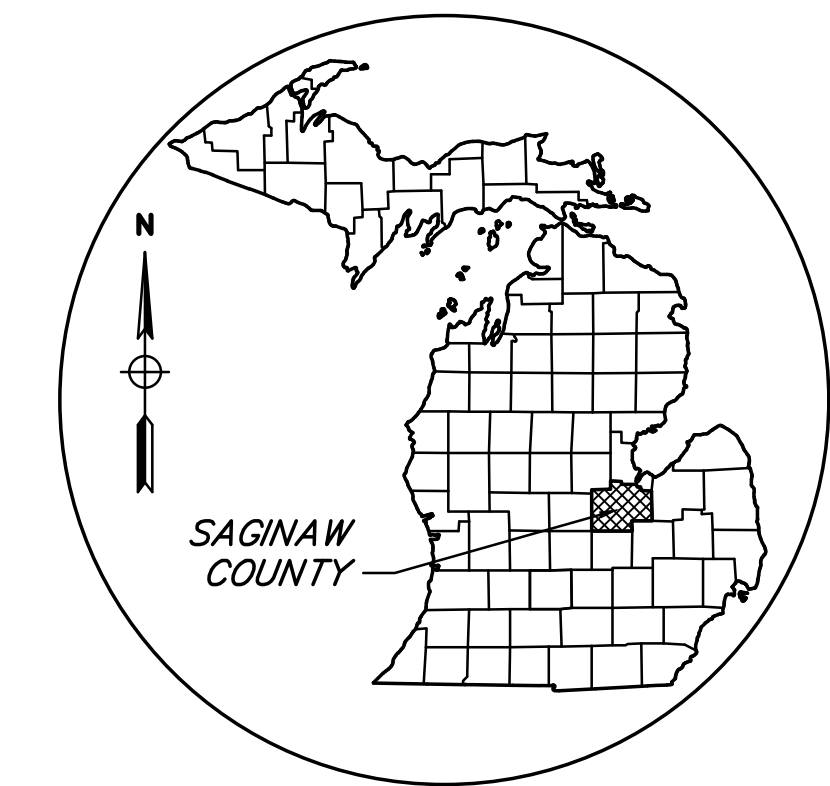
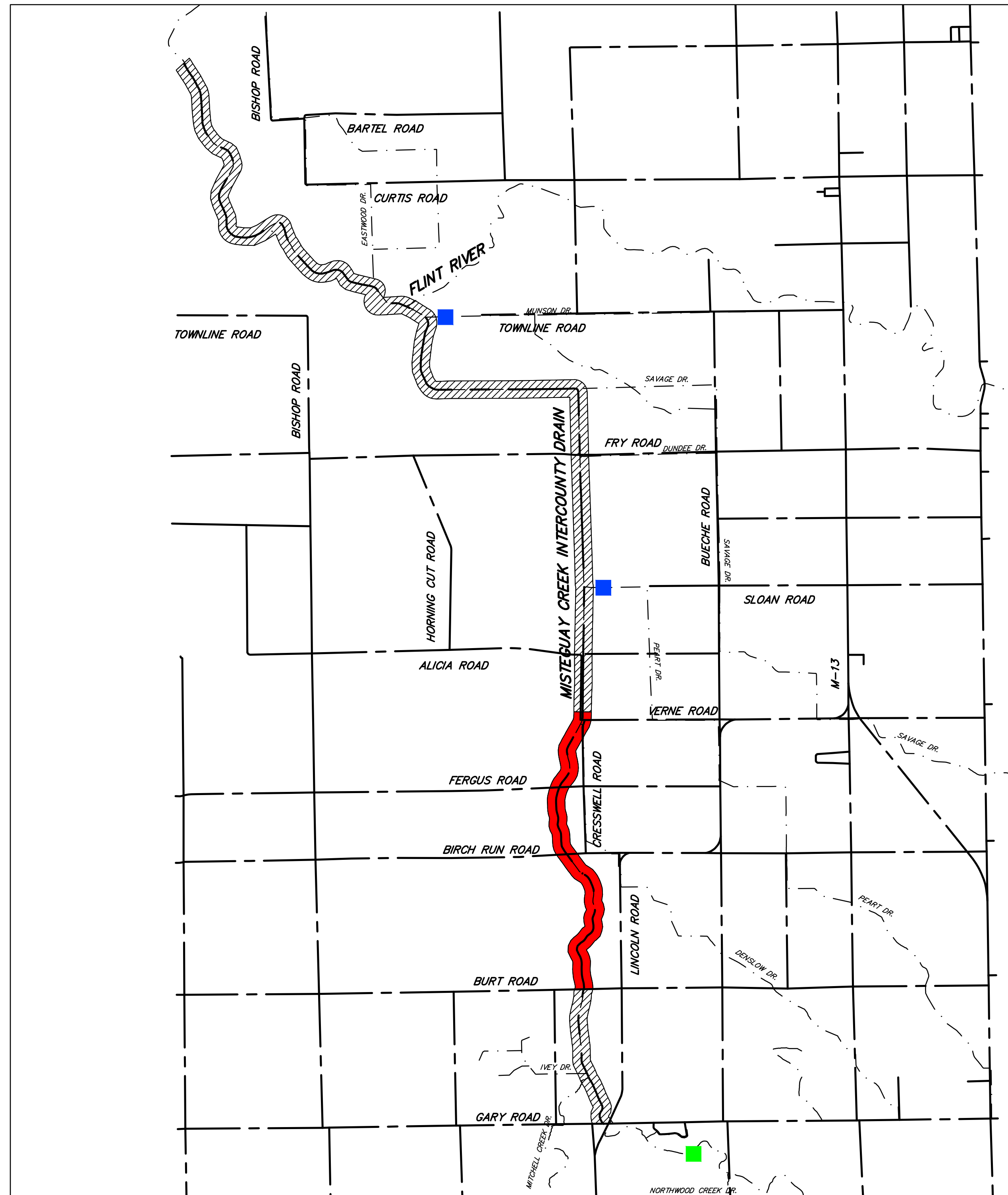


# MISTEGUAY CREEK INTERCOUNTY DRAIN

MICHIGAN DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT - MICHAEL GREGG  
 GENESEE COUNTY DRAIN COMMISSIONER - JEFFREY WRIGHT  
 SAGINAW COUNTY PUBLIC WORKS COMMISSIONER - BRIAN J. WENDLING  
 MIDLAND COUNTY DRAIN COMMISSIONER - DOUGLAS ENOS - ON BEHALF OF SCPWC  
 SHIAWASSEE COUNTY DRAIN COMMISSIONER - ANTHONY NEWMAN  
 SANILAC COUNTY DRAIN COMMISSIONER - GREGORY ALEXANDER - ON BEHALF OF SCDL

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* DR-2367-05	PLAN AND PROFILE STA. 255+00 TO STA. 380+00	5	-
* DR-2367-06	PLAN AND PROFILE STA. 380+00 TO STA. 490+00	6	-
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* DR-2367-11	CROSS SECTIONS STA. 140+00 TO STA. 155+00	11	-
* DR-2367-12	CROSS SECTIONS STA. 160+00 TO STA. 175+00	12	-
* DR-2367-13	CROSS SECTIONS STA. 180+00 TO STA. 195+00	13	-
* DR-2367-14	CROSS SECTIONS STA. 197+00 TO STA. 210+00	14	-
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* DR-2367-16	CROSS SECTIONS STA. 235+00 TO STA. 248+00	16	-
* DR-2367-17	CROSS SECTIONS STA. 250+00 TO STA. 265+00	17	-
* DR-2367-18	CROSS SECTIONS STA. 270+00 TO STA. 285+00	18	-
* DR-2367-19	CROSS SECTIONS STA. 290+00 TO STA. 305+00	19	-
* DR-2367-20	CROSS SECTIONS STA. 310+00 TO STA. 325+00	20	-
* DR-2367-21	CROSS SECTIONS STA. 330+00 TO STA. 345+00	21	-
* DR-2367-22	CROSS SECTIONS STA. 350+00 TO STA. 365+00	22	-
* DR-2367-23	CROSS SECTIONS STA. 370+00 TO STA. 385+00	23	-
* DR-2367-24	CROSS SECTIONS STA. 390+00 TO STA. 405+00	24	-
* DR-2367-25	CROSS SECTIONS STA. 410+00 TO STA. 425+00	25	-
* DR-2367-26	CROSS SECTIONS STA. 430+00 TO STA. 445+00	26	-
* DR-2367-27	CROSS SECTIONS STA. 450+00 TO STA. 460+00	27	-
* DR-2367-28	CROSS SECTIONS STA. 465+00 TO STA. 480+00	28	-
* DR-2367-29	CROSS SECTIONS STA. 485+00 TO STA. 490+00	29	-
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DR-2367-45	CROSS SECTIONS STA. 609+50 TO STA. 610+00	45	2
* DR-2367-46	CROSS SECTIONS STA. 615+00 TO STA. 630+00	46	-
* DR-2367-47	CROSS SECTIONS STA. 635+00 TO STA. 650+00	47	-
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* DR-2367-49	FRY ROAD BRIDGE STRUCTURE DETAIL STA. 389+25	49	-
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- LEGEND**
- - DIVISION I FLAP GATE STRUCTURE IMPROVEMENT
  - - DIVISION II DIKE IMPROVEMENTS / FLAP GATE STRUCTURE
  - - DIVISION III DAME IMPROVEMENT

\* DRAWING NOT INCLUDED IN PLAN SET.

BY	MARK	REVISIONS	DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>			
<p>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</p>			
<p><b>COVER SHEET</b></p>			
<p>DE. BY: POC/LDO CH. BY: NDC DR. BY: POC/LDO APP. BY: RBH</p>		<p>PROJECT NO. <b>1185985G2010</b></p>	
<p>STDS.</p>		<p>SHEET <b>01</b> OF <b>64</b> DIV</p>	
<p>DATE <b>APRIL 2019</b> SCALE <b>NOT TO SCALE</b></p>		<p>FILE NO. <b>DR-2367-01</b> 1/2/3</p>	

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 SAGINAW OFFICE  
 230 S. Washington Ave.  
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 Fax. 989-754-4440  
 www.SpicerGroup.com

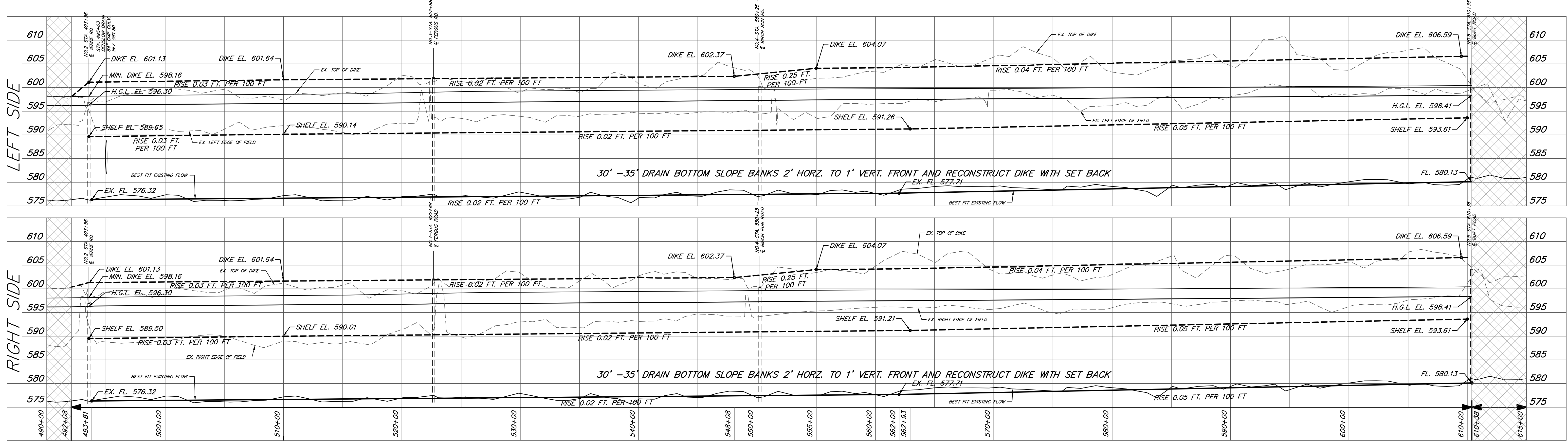
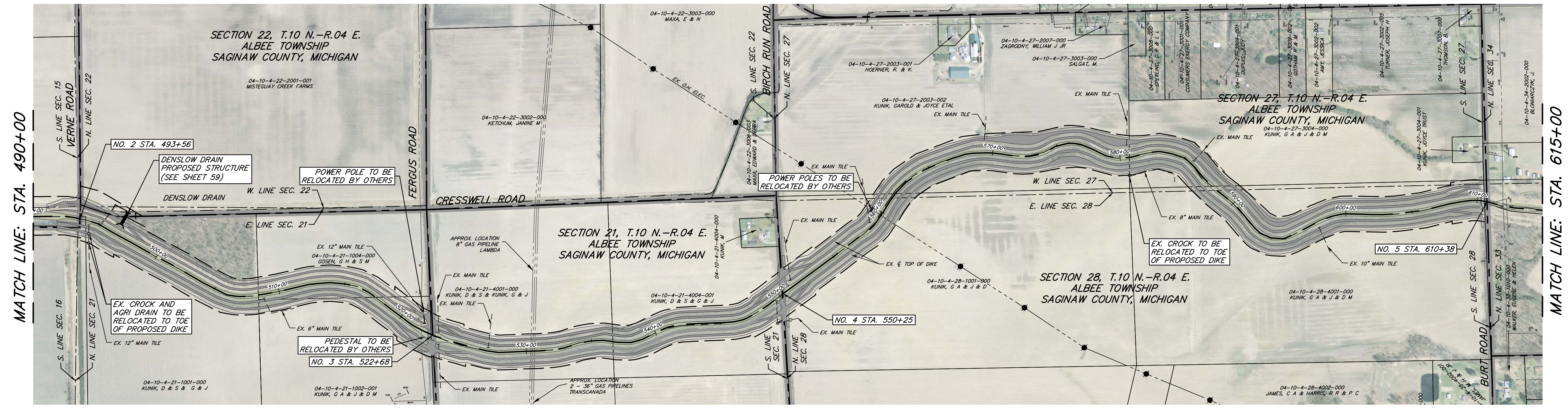
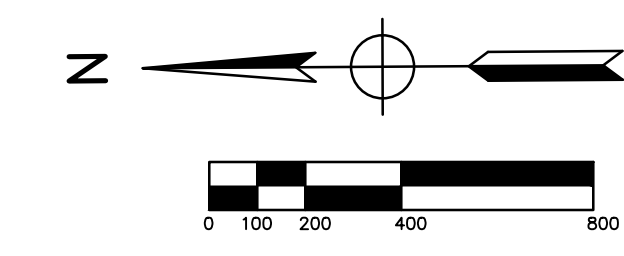
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PLOTTING SCALE: RET. F.B. PG. ACAD FILE:









- NO. 2 - STA. 493+56, VERNE ROAD  
EXISTING STRUCTURE TO BE REMOVED BY OTHERS.
- NO. 3 - STA. 522+68, FERGUS ROAD  
(SEE SHEET 51 FOR BRIDGE CROSSING DETAIL.)
- NO. 4 - STA. 550+25, BIRCH RUN ROAD  
(SEE SHEET 52 FOR BRIDGE CROSSING DETAIL.)
- NO. 5 - STA. 610+38, BURT ROAD  
(SEE SHEET 53 FOR BRIDGE CROSSING DETAIL.)

FROM STA.	TO STA.	IN PLACE CUT VOL. (CU. YD.)	CUT VOL. W/ 15% EXPANSION (CU. YD.)	IN PLACE FILL VOL. (CU. YD.)
492+08	522+68	12,900	14,835	25,650
522+68	550+25	17,500	20,125	21,800
550+25	580+00	24,150	27,775	26,600
580+00	610+38	28,200	32,430	21,000

FROM STA.	TO STA.	IN PLACE CUT VOL. (CU. YD.)	CUT VOL. W/ 15% EXPANSION (CU. YD.)	IN PLACE FILL VOL. (CU. YD.)
492+08	522+68	14,650	16,850	33,800
522+68	550+25	20,100	23,115	28,500
550+25	580+00	29,100	33,465	21,150
580+00	610+38	24,200	27,830	22,650

- CONSTRUCTION NOTES**
- SEE CROSS SECTIONS FOR PROPOSED DIKE GEOMETRY.
  - ALL SPOILS SHALL BE LEVELED AND COMPACTED TO A MINIMUM OF 80% MAXIMUM DENSITY TO CREATE PROPOSED DIKES AS SHOWN IN CROSS SECTIONS.
  - CONTRACTOR IS RESPONSIBLE TO MONITOR WEATHER AND COORDINATE WITH ENGINEER AND OWNER PRIOR TO LEAVING ANY UNATTENDED OPENINGS IN THE DIKE. NO OPENING SHALL BE LEFT UNATTENDED FOR MORE THAN 36 HOURS.
  - CONTRACTOR SHALL HAVE EMERGENCY RESPONSE PLAN ON SITE AT ALL TIMES. EMERGENCY RESPONSE PLAN SHALL BE APPROVED BY ENGINEER PRIOR TO CONSTRUCTION.

- LEGEND**
- PROPOSED TOP OF DIKE AND SHELF
  - FUTURE PROJECT WORK
  - DRAIN RIGHT OF WAY

- BENCHMARKS**
- BM#200 - CHISELED SQUARE AT NORTHERLY MOST END OF WINGWALL IN SOUTHWEST QUADRANT OF BRIDGE AT VERNE ROAD. STATION: 493+57.83 OFFSET: -41.81 ELEV. 595.41
  - BM#202 - SET NAIL IN WEST FACE OF MAPLE ON EAST SIDE OF MISTEGWAY DRAIN. STATION: 508+31.04 OFFSET: -129.40 ELEV. 594.15

BY	MARK	REVISIONS	DATE

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MISTEGWAY CREEK INTERCOUNTY DRAIN  
SAGINAW COUNTY, MICHIGAN

**PLAN AND PROFILE  
STA. 490+00 TO 615+00**

**Spicer Group**

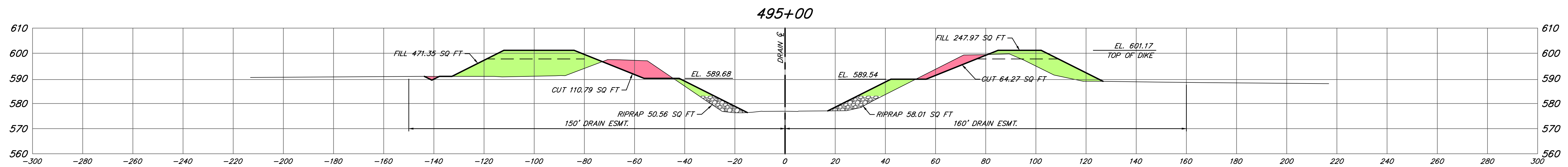
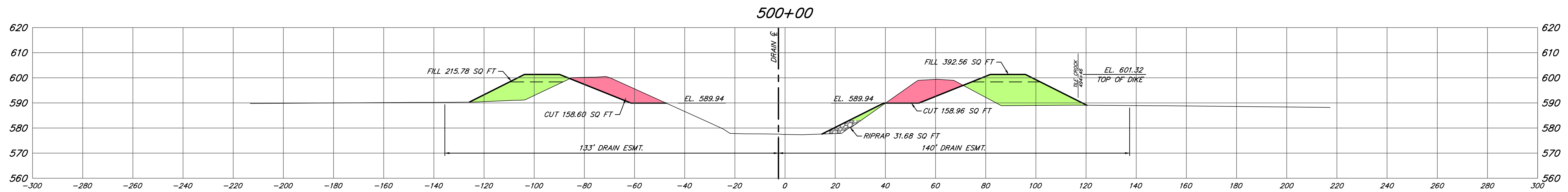
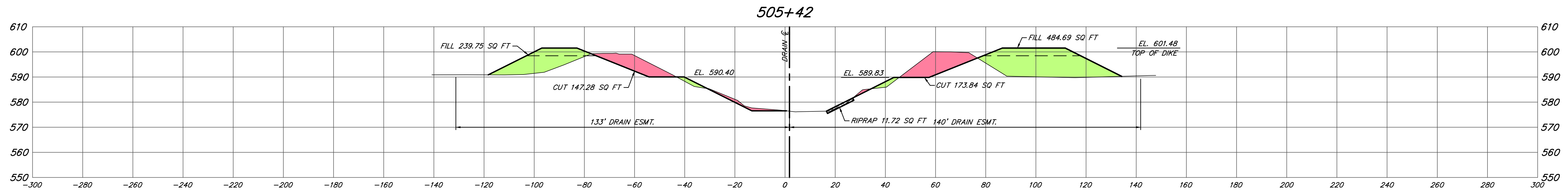
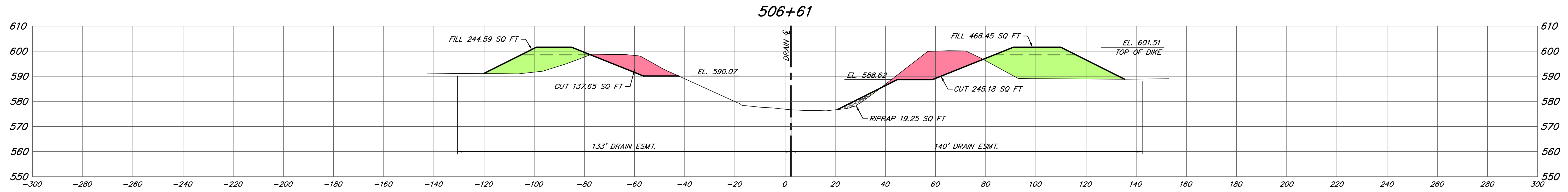
SAGINAW OFFICE  
230 S. Washington Ave.  
Saginaw, MI 48607  
Tel. 989-754-4717  
Fax. 989-754-4440  
www.SpicerGroup.com

DE. BY: LDO CH. BY: NDC PROJECT NO. 1185985G2010  
DR. BY: LDO APP. BY: RBH

STDS. SHEET 07 OF 64 DIV 2  
DATE: APRIL, 2019 FILE NO. DR-2367-07  
SCALE: 1"=400' V: 1"=10'

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:





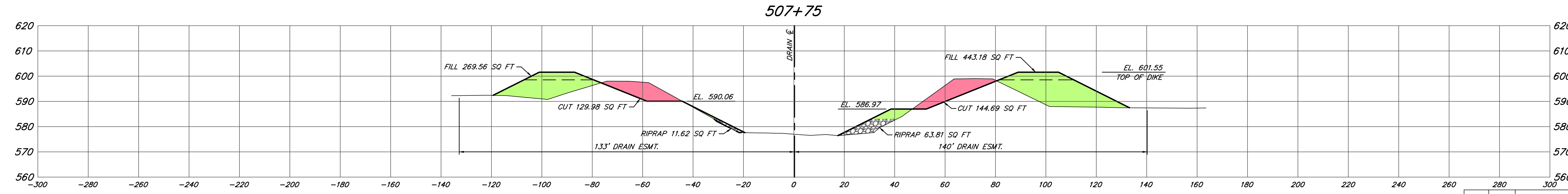
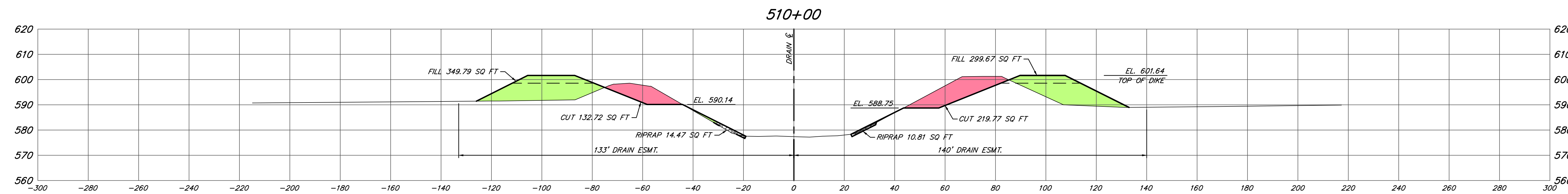
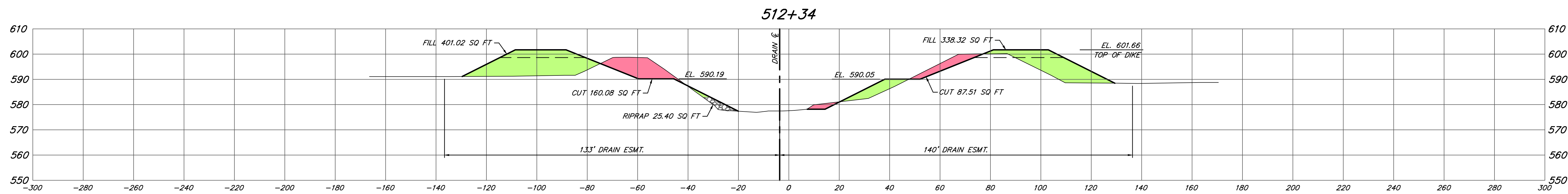
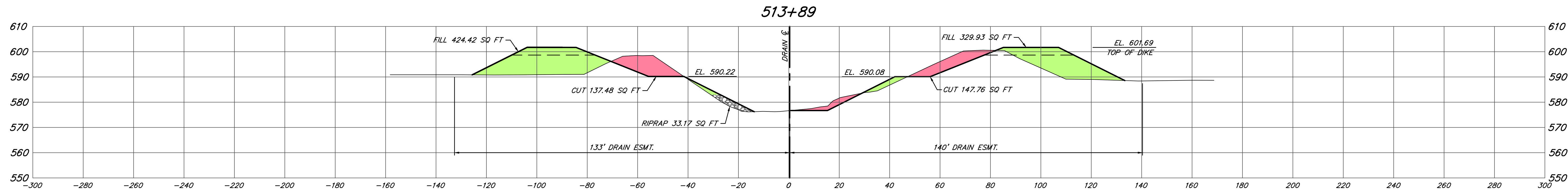
**LEGEND**

- — — — — DRAIN CENTERLINE
- — — — — EXISTING GROUND CROSS SECTION
- — — — — PROPOSED CHANNEL/DIKE CROSS SECTION
- — — — — MINIMUM DIKE ELEVATION
- █ PROPOSED CUT AREA
- █ PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>			
<p>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</p>			
<p><b>CROSS SECTIONS STA. 500+00 TO 506+61</b></p>			
<p>DE. BY: POC/LDO CH. BY: NDC DR. BY: POC/LDO APP. BY: RBH</p>		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>	
<p>PROJECT NO. 118598SG2010</p>		<p>PROJECT NO. 118598SG2010</p>	
<p>STDS.</p>		<p>SHEET 30 OF 64</p>	
<p>DATE APRIL, 2019</p>		<p>FILE NO. DR-2367-30</p>	
<p>SCALE 1" = 20'</p>		<p>DIV 2</p>	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:

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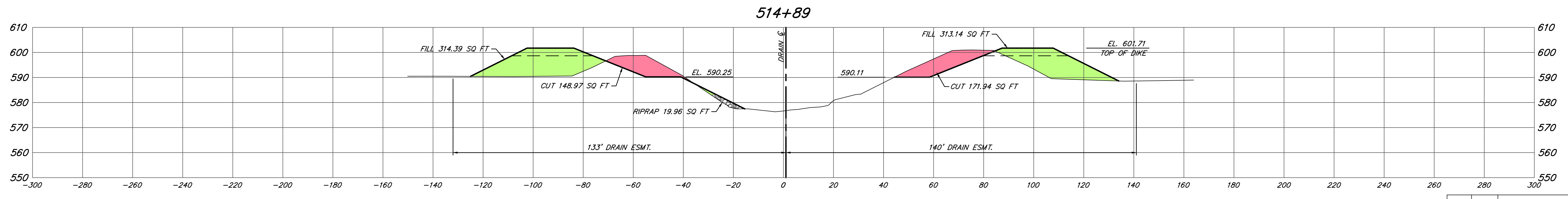
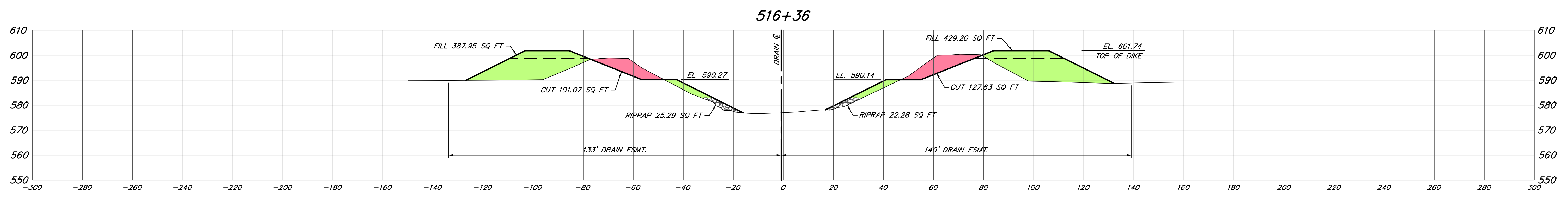
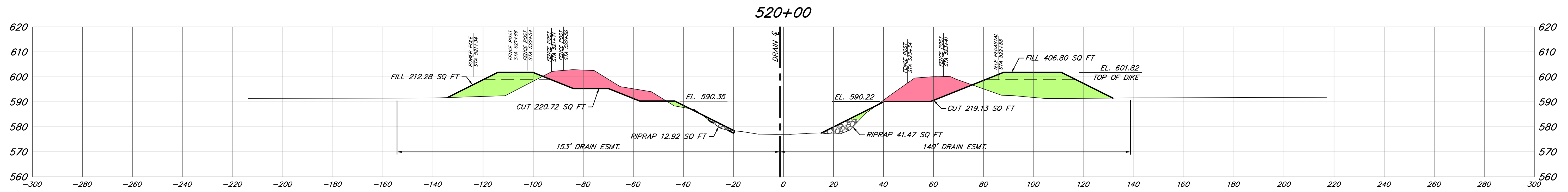


**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- PROPOSED CUT AREA
- PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 507+75 TO 513+89</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY: POC/LDO	CH. BY: NDC	PROJECT NO.	
DR. BY: POC/LDO	APP. BY: RBH	118598SG2010	
STDS.	SHEET 31 OF 64	DIV	
DATE	FILE NO.		
SCALE 1" = 20'	DR-2367-31		2

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:



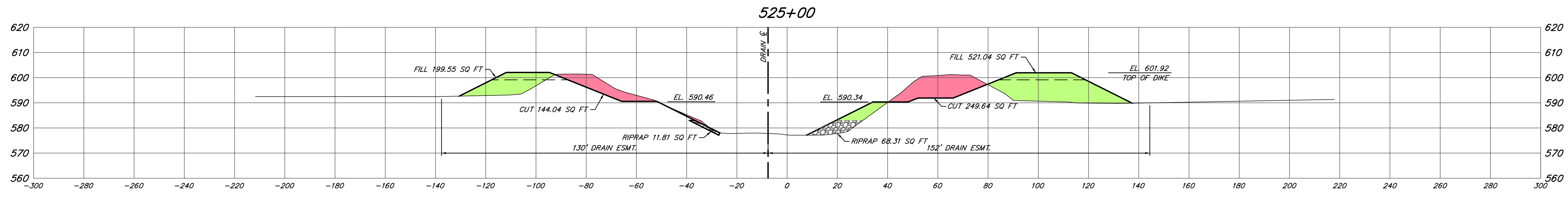
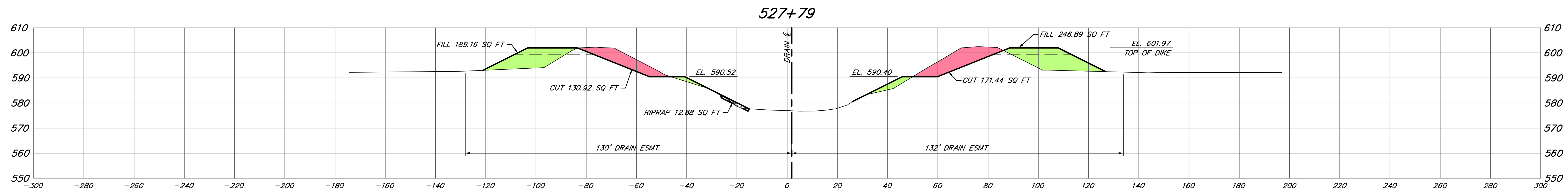
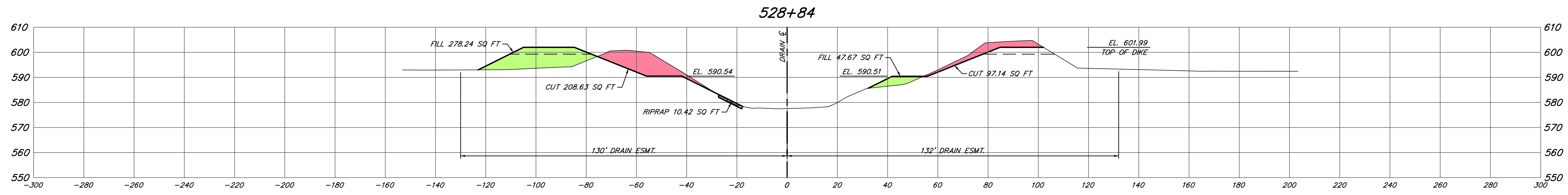
**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- [Pink Box] PROPOSED CUT AREA
- [Green Box] PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 514+89 TO 521+84</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
<small>DE. BY: POC/LDO CH. BY: NDC DR. BY: POC/LDO APP. BY: RBH</small>		<small>PROJECT NO. 118598SG2010</small>	
<small>STDS.</small>		<small>SHEET 32 OF 64</small>	
<small>DATE: APRIL, 2019</small>		<small>FILE NO. DR-2367-32</small>	
<small>SCALE: 1" = 20'</small>		<small>DIV 2</small>	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:



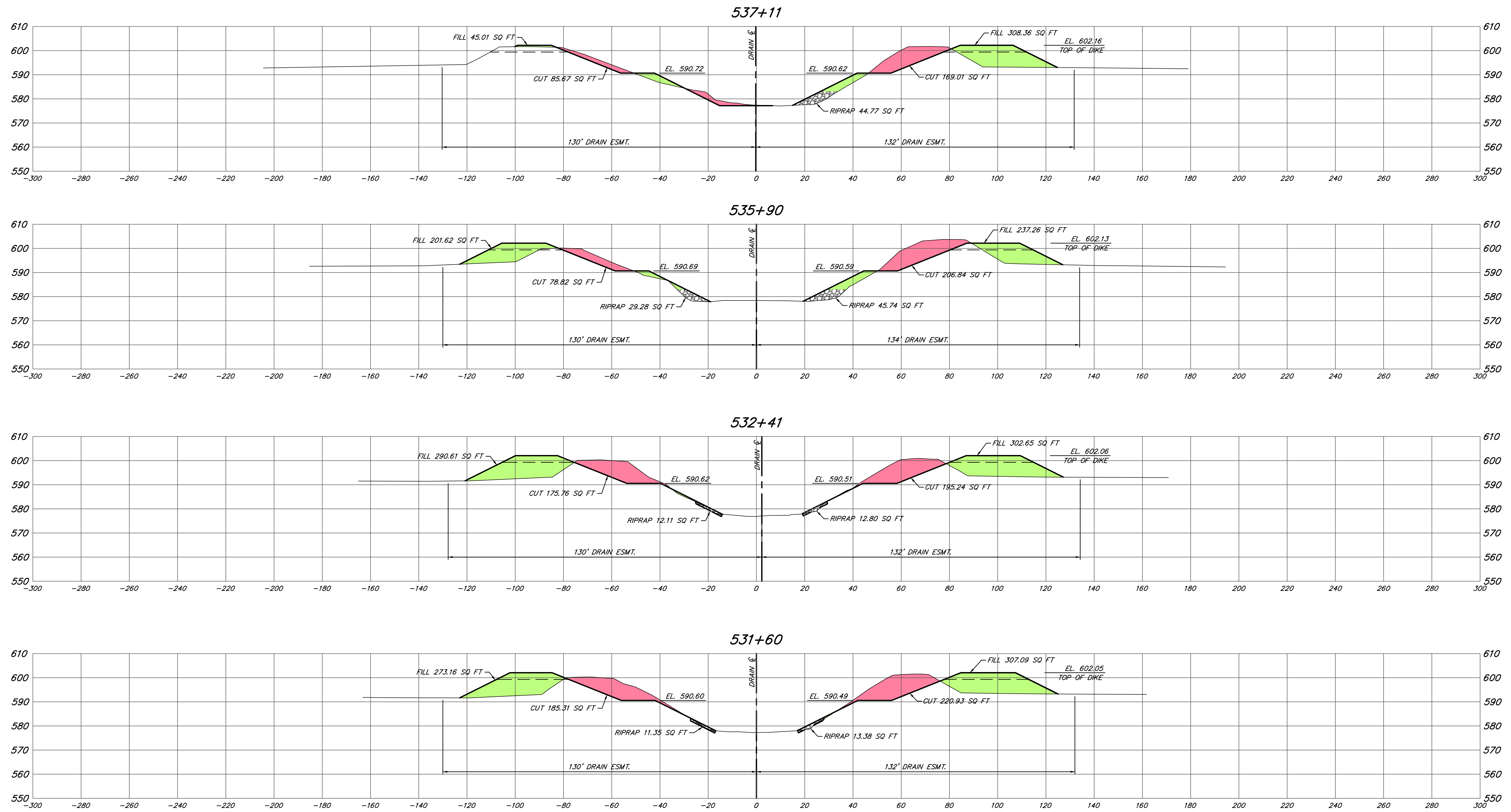


**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- PROPOSED CUT AREA
- PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
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<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 525+00 TO 528+84</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
<small>DE. BY: POC/LDO CH. BY: NDC</small>		<small>PROJECT NO. 118598SG2010</small>	
<small>DR. BY: POC/LDO APP. BY: RBH</small>		<small>SHEET 33 OF 64</small>	
<small>STDS.</small>		<small>DIV</small>	
<small>DATE APRIL, 2019</small>		<small>FILE NO.</small>	
<small>SCALE 1" = 20'</small>		<small>DR-2367-33</small>	
		<small>2</small>	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:



PLOTTING SCALE: RET. F.B. PG. ACAD FILE:

**LEGEND**

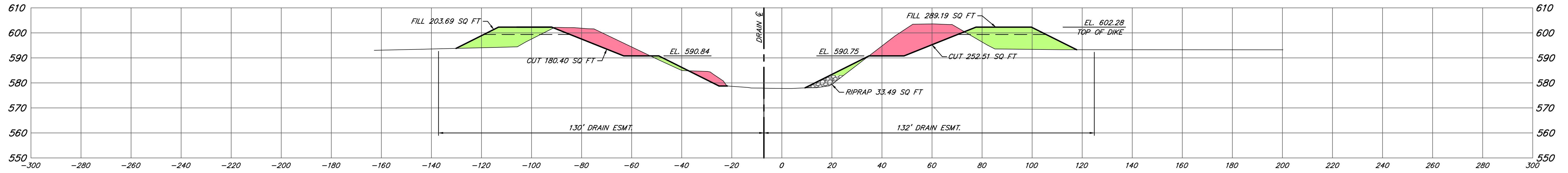
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	EXISTING GROUND CROSS SECTION
	PROPOSED CHANNEL/DIKE CROSS SECTION
	MINIMUM DIKE ELEVATION
	PROPOSED CUT AREA
	PROPOSED FILL AREA

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<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 531+60 TO 537+11</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
<small>DE. BY: POC/LDO CH. BY: NDC DR. BY: POC/LDO APP. BY: RBH</small>		<small>PROJECT NO. 118598SG2010</small>	
<small>STDS.</small>		<small>SHEET 34 OF 64</small>	
<small>DATE APRIL, 2019</small>		<small>FILE NO.</small>	
<small>SCALE 1" = 20'</small>		<small>DR-2367-34</small>	
		<small>DIV 2</small>	

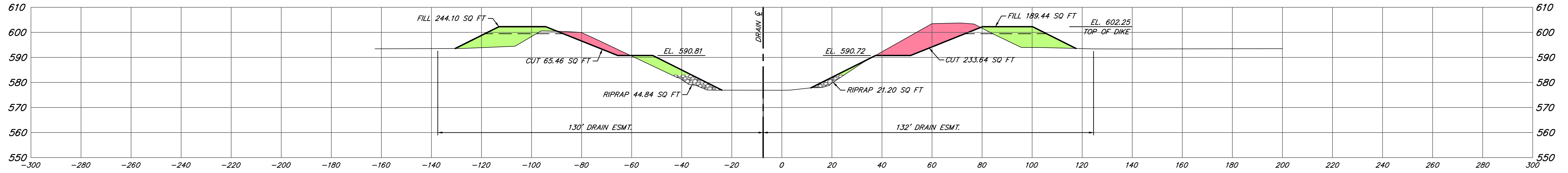
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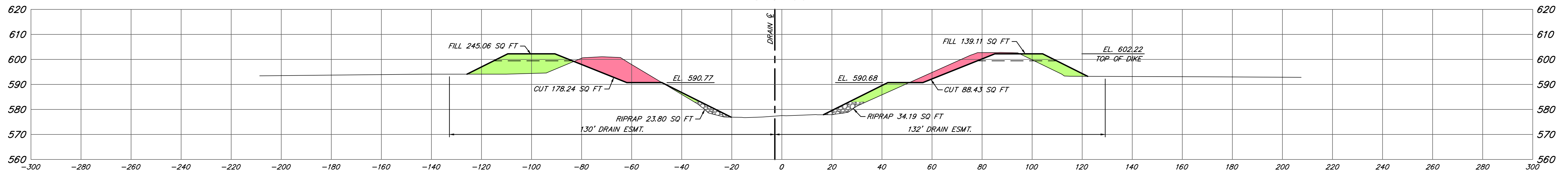
543+00



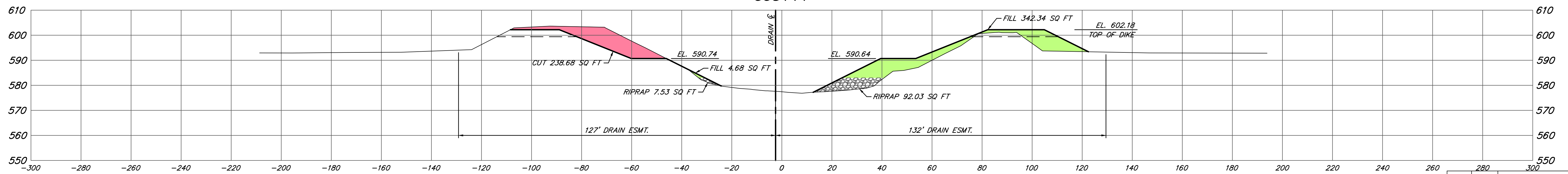
541+59



540+00



538+14

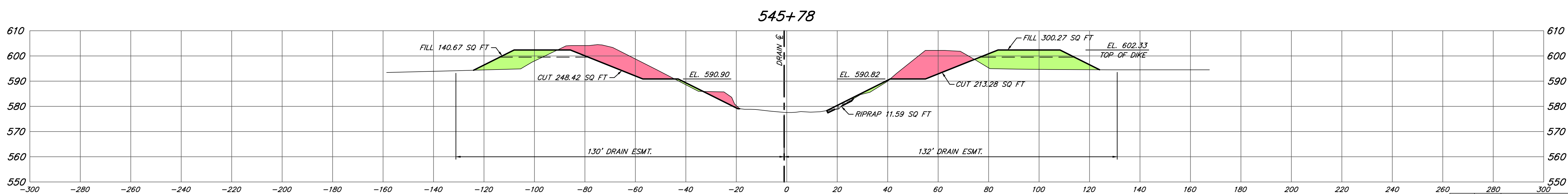
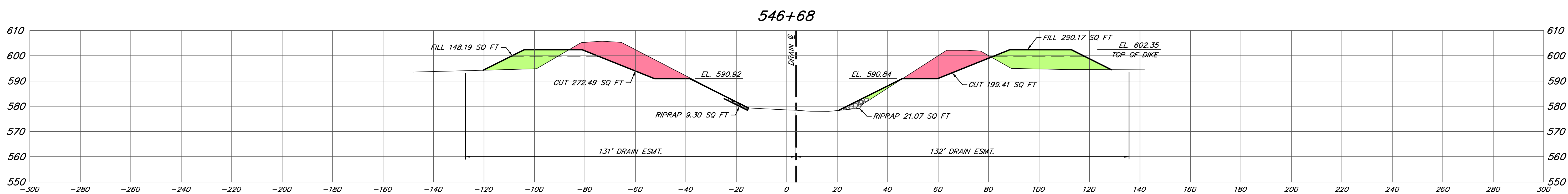
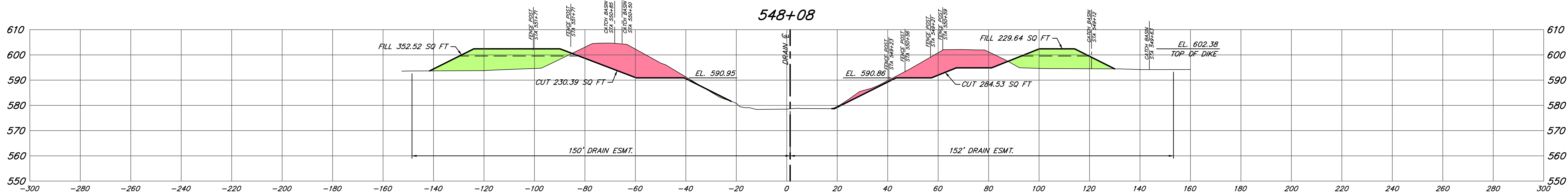


- LEGEND**
- DRAIN CENTERLINE
  - EXISTING GROUND CROSS SECTION
  - PROPOSED CHANNEL/DIKE CROSS SECTION
  - MINIMUM DIKE ELEVATION
  - █ PROPOSED CUT AREA
  - █ PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>			
<p>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</p>			
<p><b>CROSS SECTIONS</b> STA. 538+14 TO 543+00</p>			
<p>DE. BY: POC/LDO CH. BY: NDC DR. BY: POC/LDO APP. BY: RBH</p>		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>	
<p>PROJECT NO. 118598SG2010</p>		<p>STDS. SHEET 35 OF 64 DIV</p>	
<p>DATE APRIL, 2019 SCALE 1" = 20'</p>		<p>FILE NO. DR-2367-35</p>	
		<p>2</p>	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:





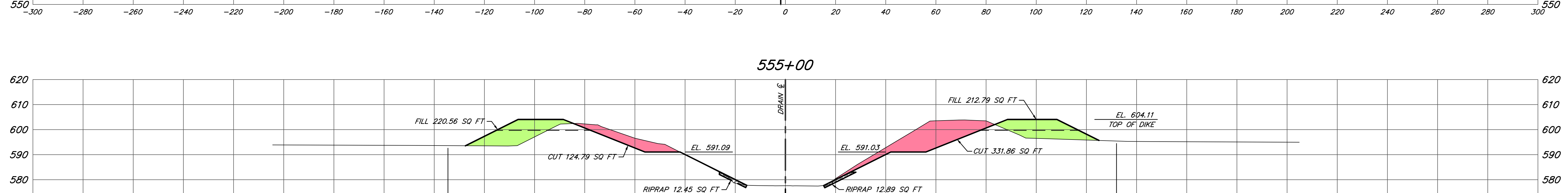
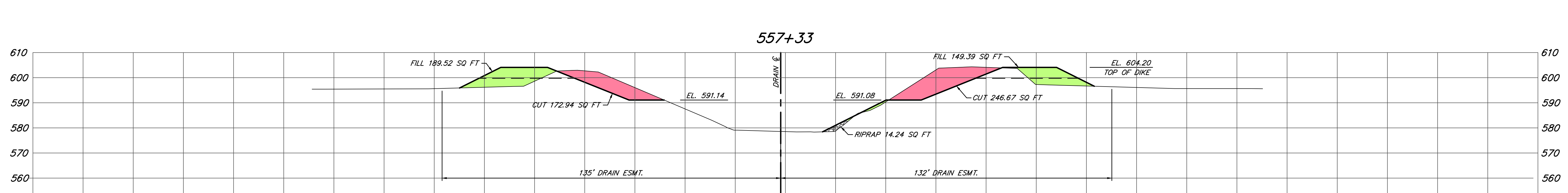
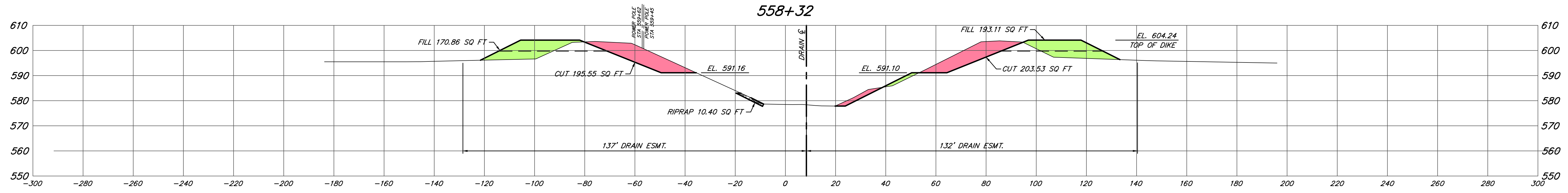
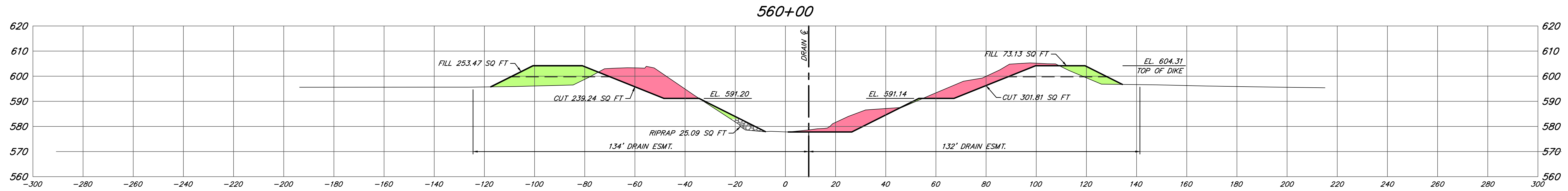
**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- PROPOSED CUT AREA
- PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 545+78 TO 548+08</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
<small>DE. BY: POC/LDO CH. BY: NDC</small>		<small>PROJECT NO. 118598SG2010</small>	
<small>DR. BY: POC/LDO APP. BY: RBH</small>		<small>SHEET 36 OF 64</small>	
<small>STDS.</small>		<small>DIV</small>	
<small>DATE: APRIL, 2019</small>		<small>FILE NO.</small>	
<small>SCALE: 1" = 20'</small>		<small>DR-2367-36</small>	
		<b>2</b>	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:





**LEGEND**

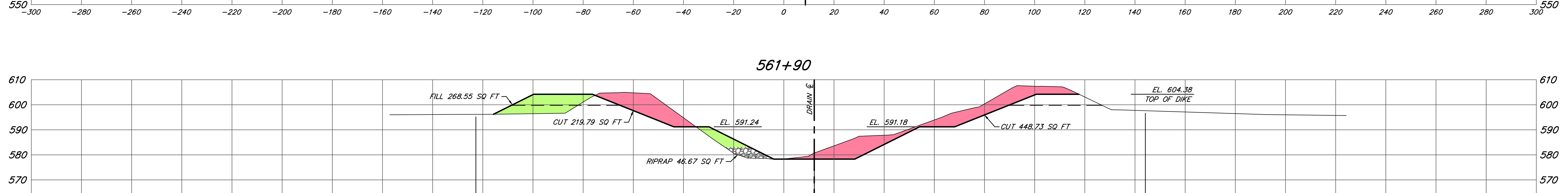
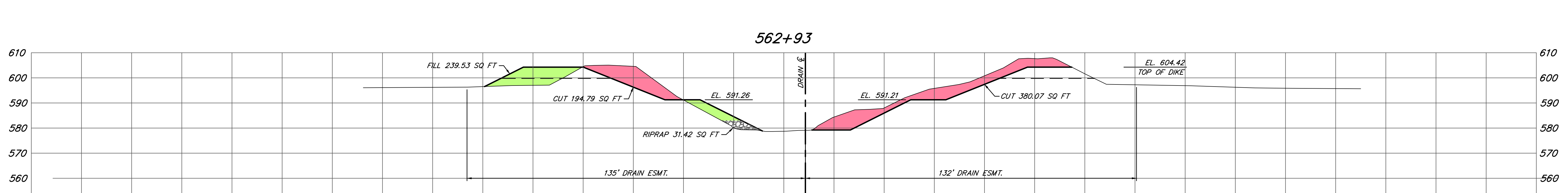
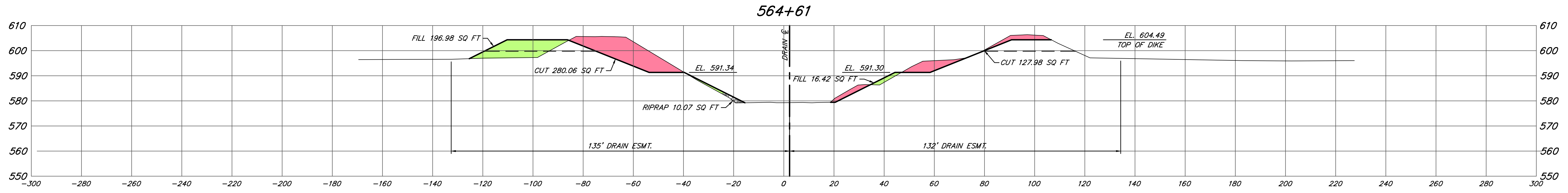
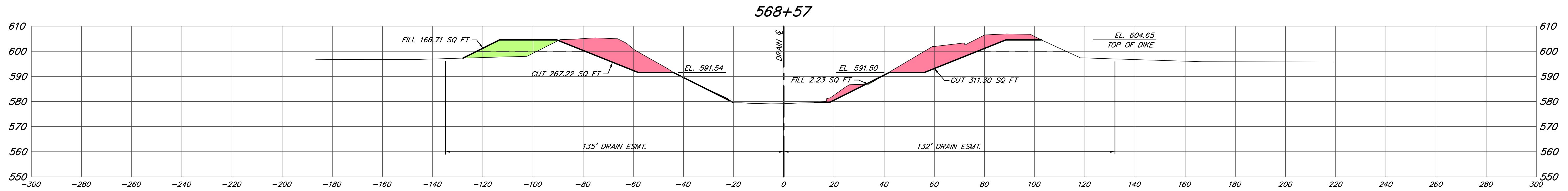
	DRAIN CENTERLINE
	EXISTING GROUND CROSS SECTION
	PROPOSED CHANNEL/DIKE CROSS SECTION
	MINIMUM DIKE ELEVATION
	PROPOSED CUT AREA
	PROPOSED FILL AREA

	BY MARK REVISIONS DATE
THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.	
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>	
<b>CROSS SECTIONS STA. 555+00 TO 560+00</b>	
SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com	
DE. BY: POC/LDO CH. BY: NDC DR. BY: POC/LDO APP. BY: RBH	PROJECT NO. <b>118598SG2010</b>
STDS.	SHEET <b>37</b> OF <b>64</b> DIV
DATE <b>APRIL, 2019</b> SCALE <b>1" = 20'</b>	FILE NO. <b>DR-2367-37</b>
	<b>2</b>

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:

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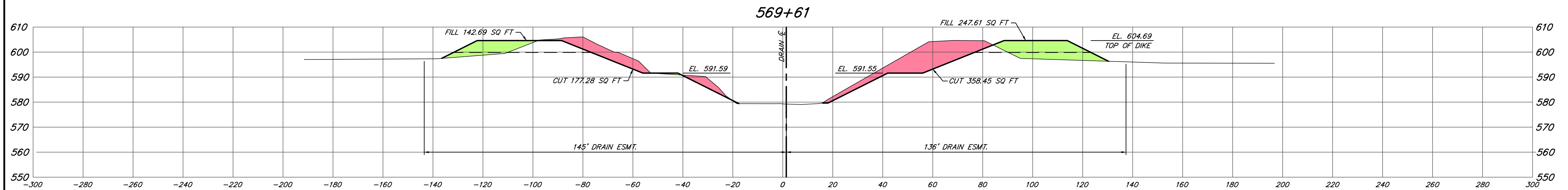
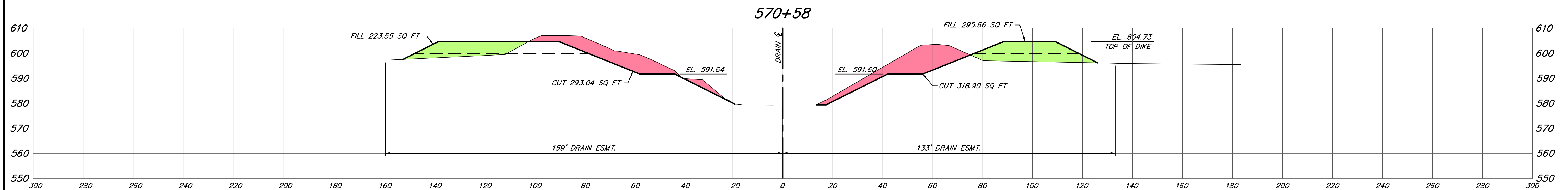
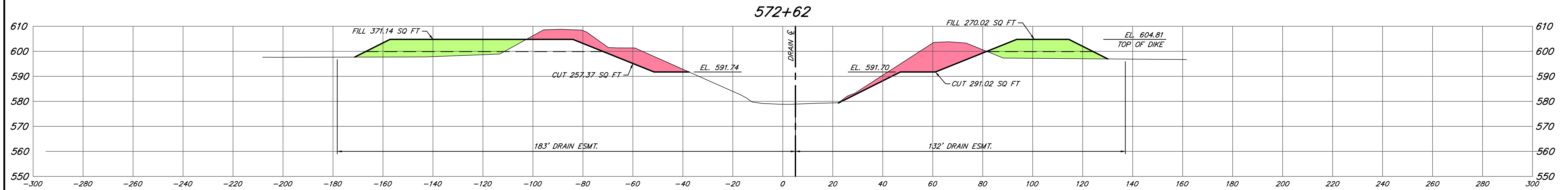
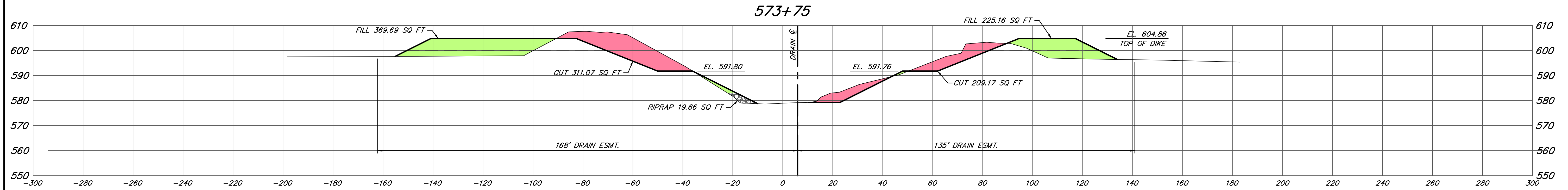
**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- █ PROPOSED CUT AREA
- █ PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 561+90 TO 568+57</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY: POC/LDO	CH. BY: NDC	PROJECT NO.	118598SG2010
DR. BY: POC/LDO	APP. BY: RBH	SHEET 38 OF 64	DIV 2
STDS.	DATE: APRIL, 2019	FILE NO.	DR-2367-38
SCALE: 1" = 20'			

PLOTTING SCALE: PG. F.B. RET. ACAD FILE:





**LEGEND**

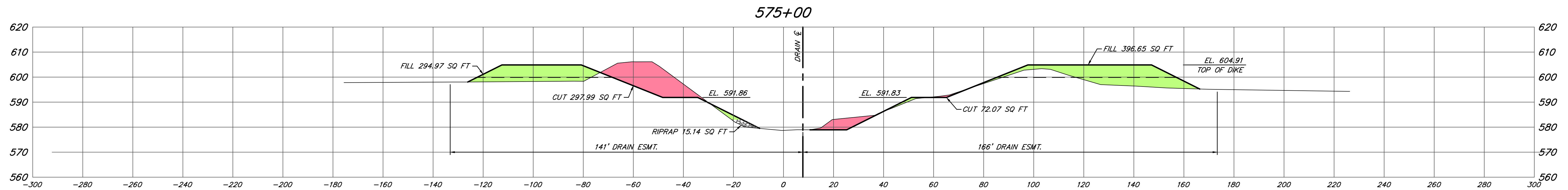
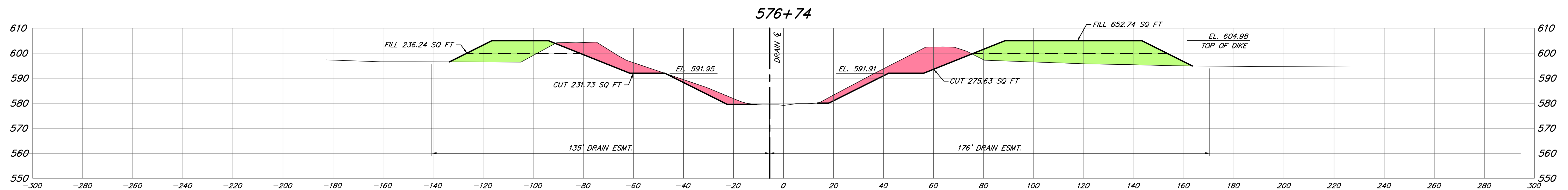
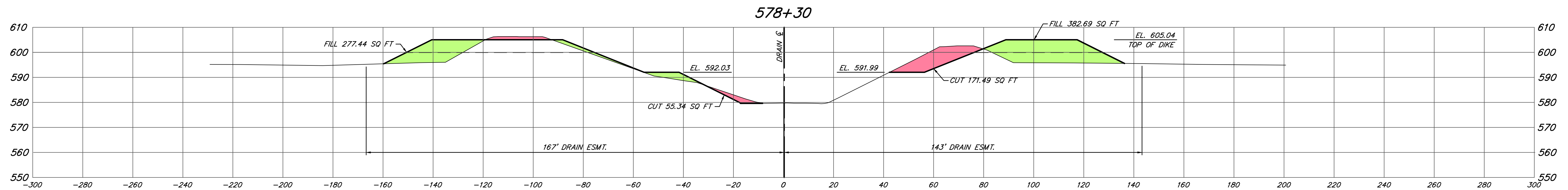
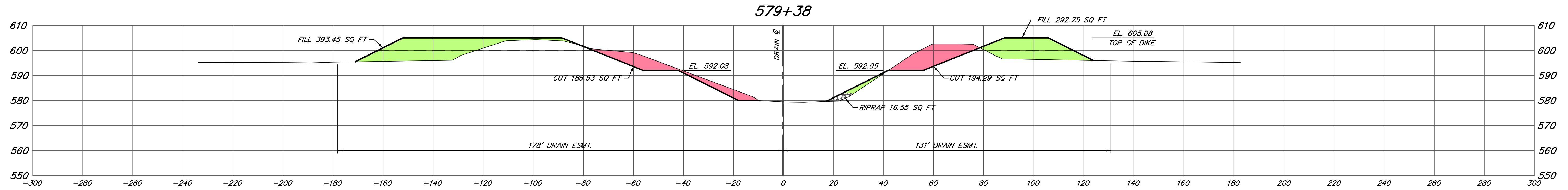
- DRAIN CENTERLINE
- - - EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- - - MINIMUM DIKE ELEVATION
- █ PROPOSED CUT AREA
- █ PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 569+61 TO 573+75</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48807 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
<small>DE. BY: POC/LDO CH. BY: NDC</small>		<small>PROJECT NO. 118598SG2010</small>	
<small>DR. BY: POC/LDO APP. BY: RBH</small>		<small>SHEET 39 OF 64</small>	
<small>STDS.</small>		<small>DIV</small>	
<small>DATE APRIL, 2019</small>		<small>FILE NO.</small>	
<small>SCALE 1" = 20'</small>		<small>DR-2367-39</small>	
		<small>2</small>	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:

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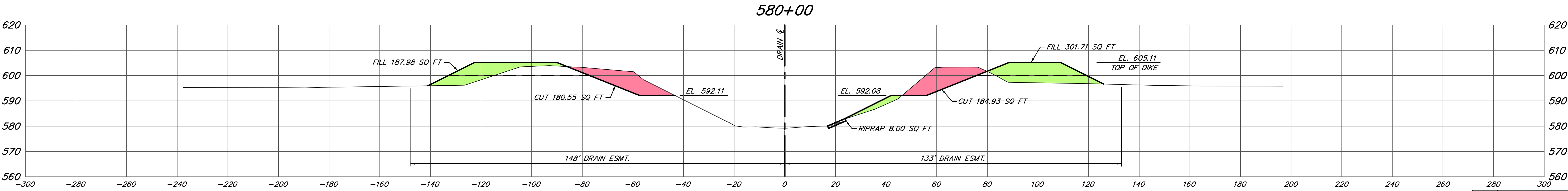
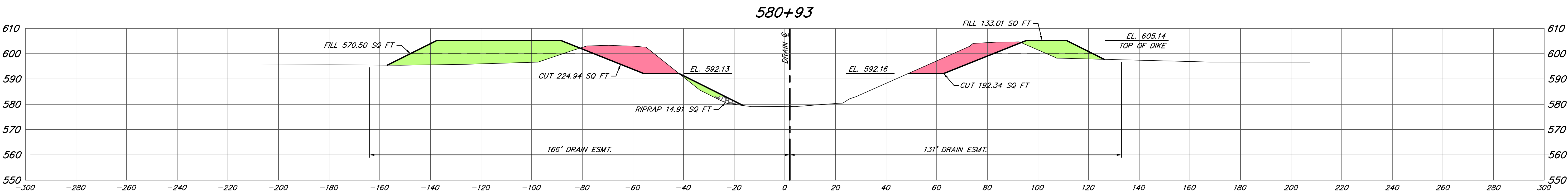
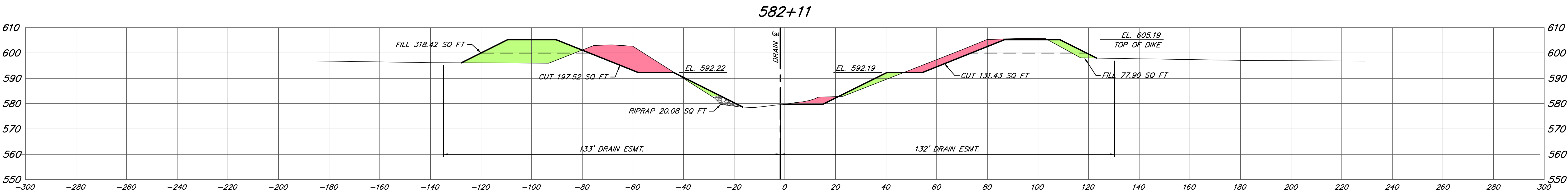
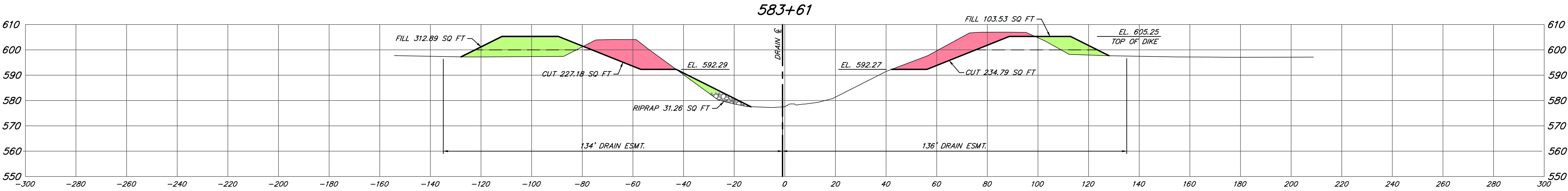
**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- PROPOSED CUT AREA
- PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 575+00 TO 579+38</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY: POC/LDO	CH. BY: NDC	PROJECT NO.	<b>118598SG2010</b>
DR. BY: POC/LDO	APP. BY: RBH	DATE	
STDS.	SHEET 40 OF 64	FILE NO.	<b>DIV 2</b>
DATE SCALE	APRIL, 2019 1" = 20'	DR-2367-40	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:





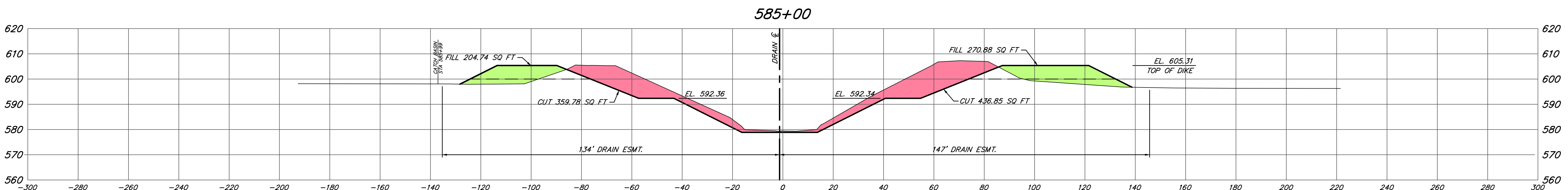
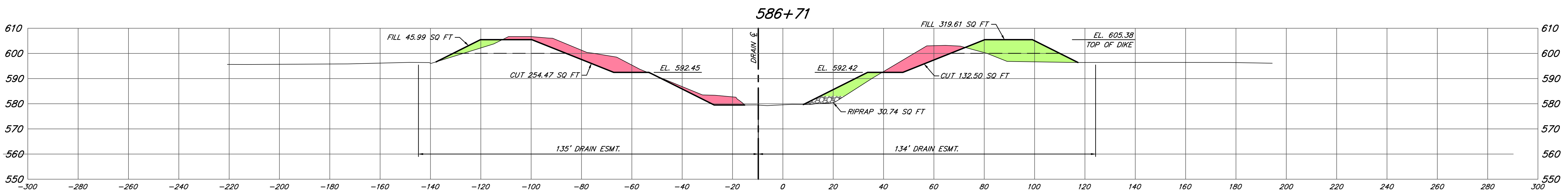
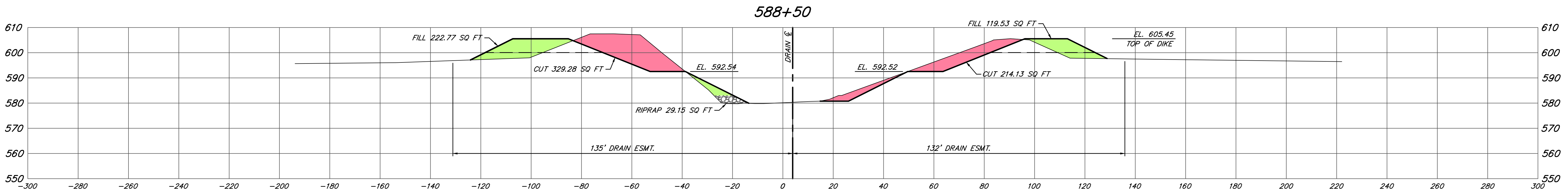
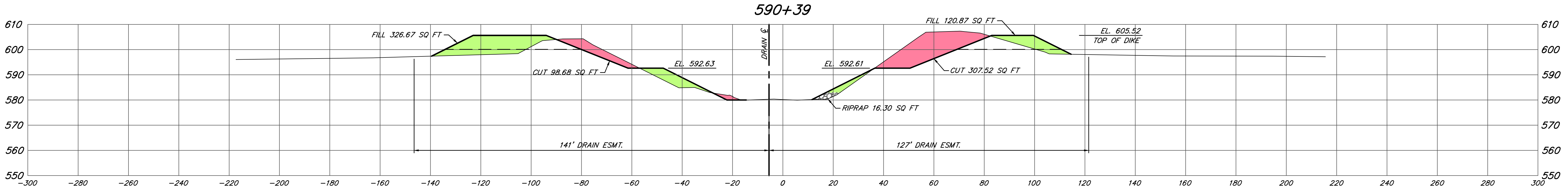
**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- PROPOSED CUT AREA
- PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 580+00 TO 583+61</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
<small>DE. BY: POC/LDO CH. BY: NDC</small>		<small>PROJECT NO. 118598SG2010</small>	
<small>DR. BY: POC/LDO APP. BY: RBH</small>		<small>SHEET 41 OF 64</small>	
<small>STDS.</small>		<small>DIV</small>	
<small>DATE SCALE APRIL, 2019 1" = 20'</small>		<small>FILE NO. DR-2367-41</small>	
		<small>2</small>	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:





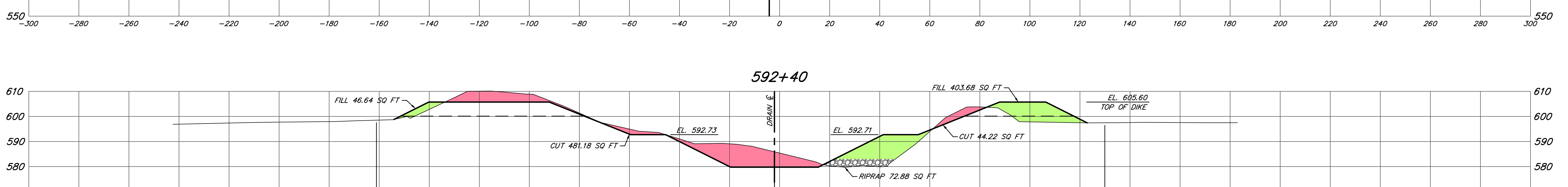
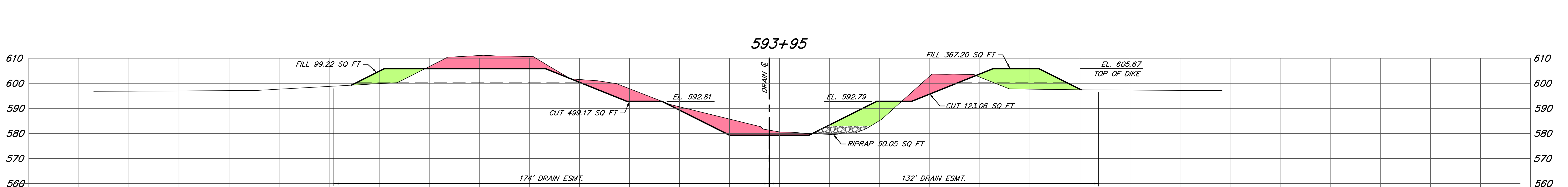
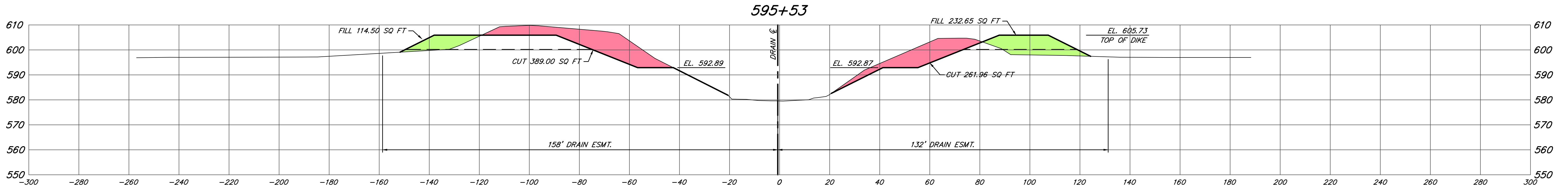
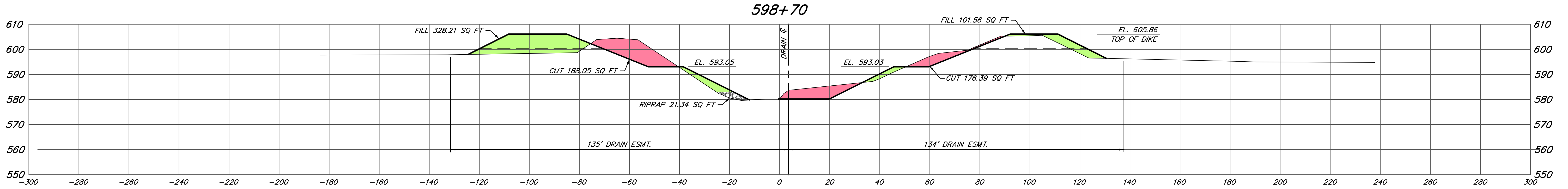
**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- PROPOSED CUT AREA
- PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 585+00 TO 590+39</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY: POC/LDO	CH. BY: NDC	PROJECT NO. 118598SG2010	
DR. BY: POC/LDO	APP. BY: RBH	SHEET 42 OF 64	
STDS.	DATE: APRIL, 2019	FILE NO. DR-2367-42	DIV 2
SCALE: 1" = 20'			

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:



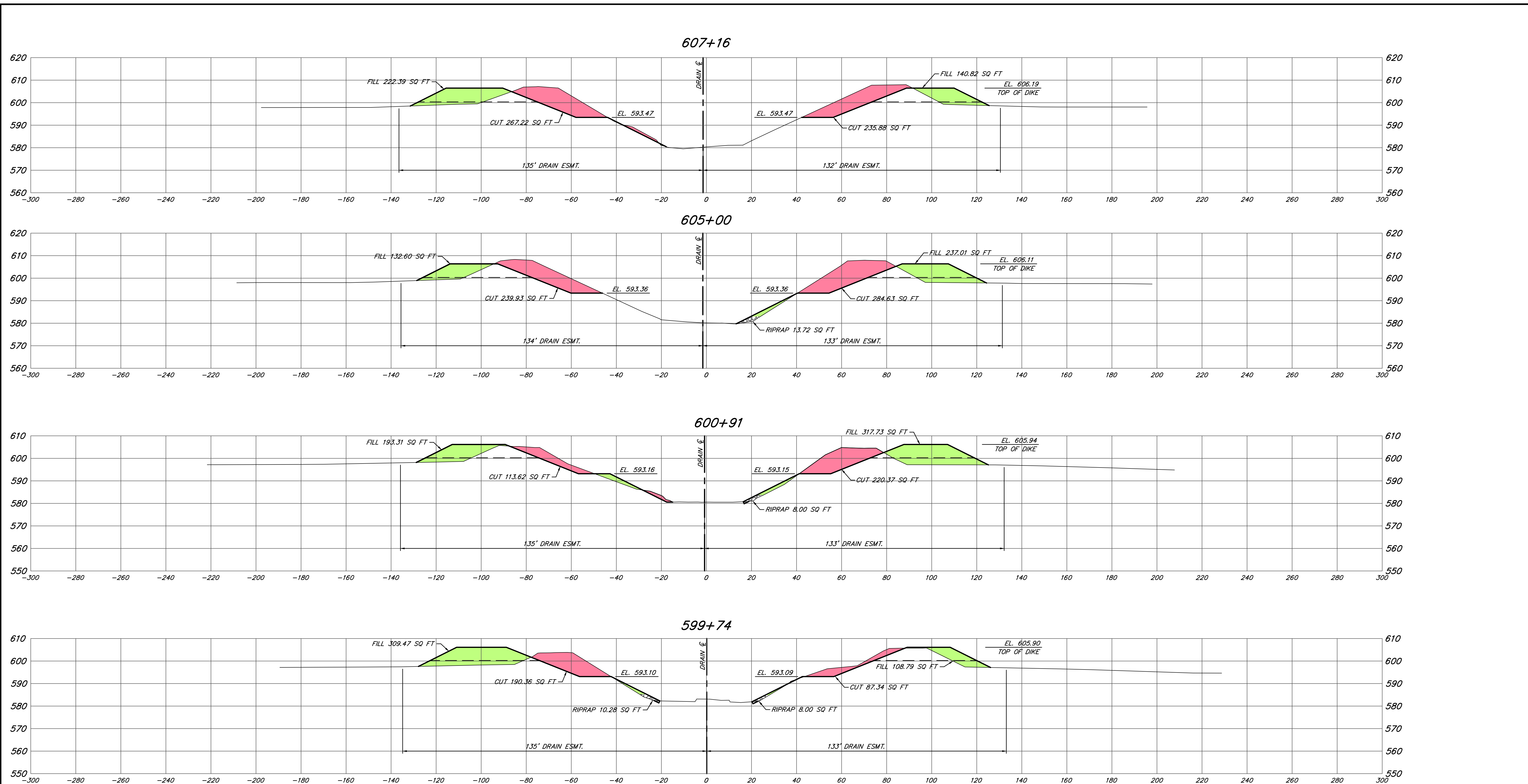


**LEGEND**

- DRAIN CENTERLINE
- EXISTING GROUND CROSS SECTION
- PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- PROPOSED CUT AREA
- PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 592+40 TO 598+70</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY: POC/LDO	CH. BY: NDC	PROJECT NO. 118598SG2010	
DR. BY: POC/LDO	APP. BY: RBH	SHEET 43 OF 64	
STDS.	DATE: APRIL, 2019	FILE NO. DR-2367-43	DIV 2
	SCALE: 1" = 20'		

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:



PLOTTING SCALE: RET. F.B. PG. ACAD FILE:

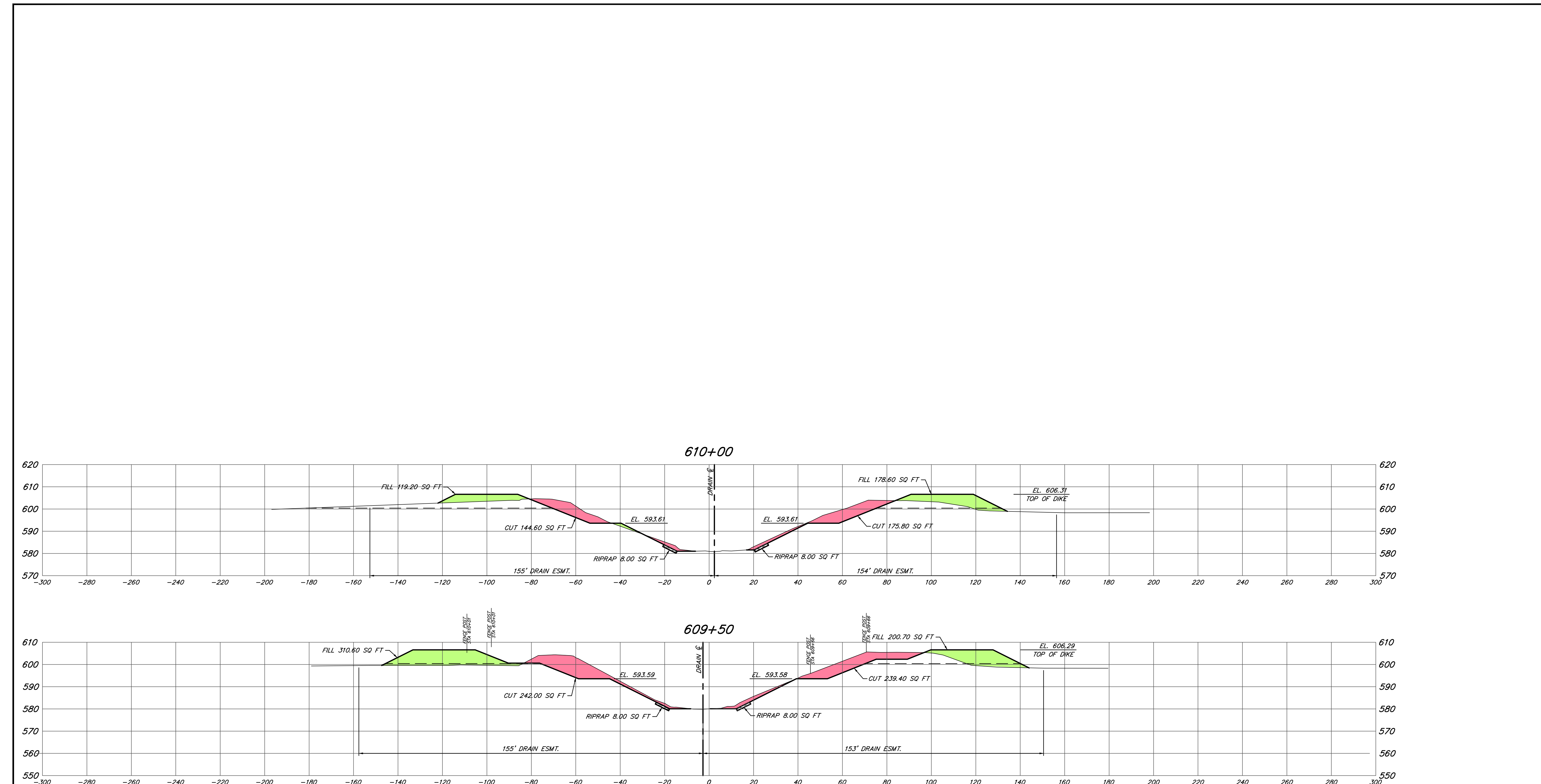
**LEGEND**

	DRAIN CENTERLINE
	EXISTING GROUND CROSS SECTION
	PROPOSED CHANNEL/DIKE CROSS SECTION
	MINIMUM DIKE ELEVATION
	PROPOSED CUT AREA
	PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 599+74 TO 607+16</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY: POC/LDO	CH. BY: NDC	PROJECT NO. 118598SG2010	
DR. BY: POC/LDO	APP. BY: RBH	SHEET 44 OF 64	
STDS.	DATE: APRIL, 2019	FILE NO. DR-2367-44	DIV 2
	SCALE: 1" = 20'		

C:\p02\10118598SG2010\2010 Mistegway Creek Intercounty Drain\DR2367-44.dwg, XREFS: none, 4/20/2019 3:50:48 PM, cshamp





ACAD FILE: PG. F.B. RET. PLOTTING SCALE:

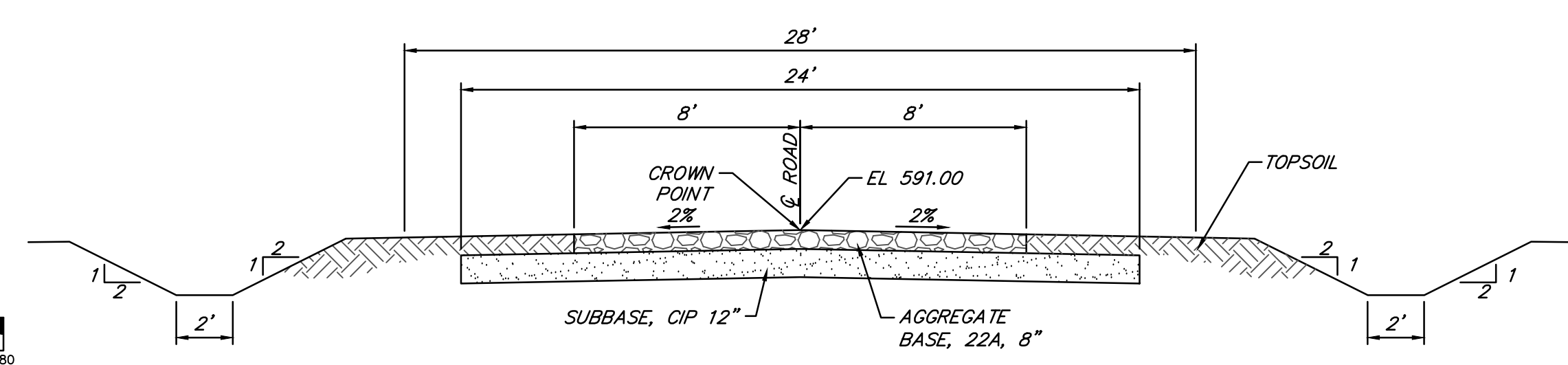
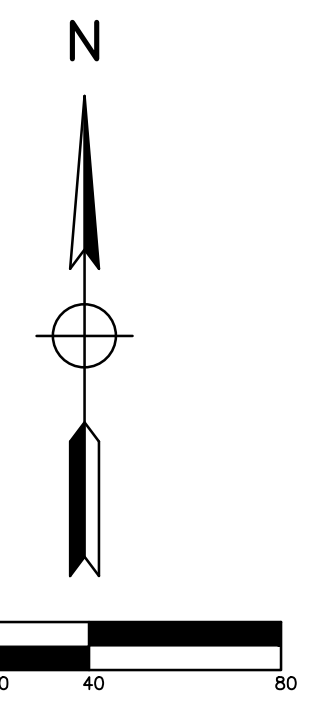
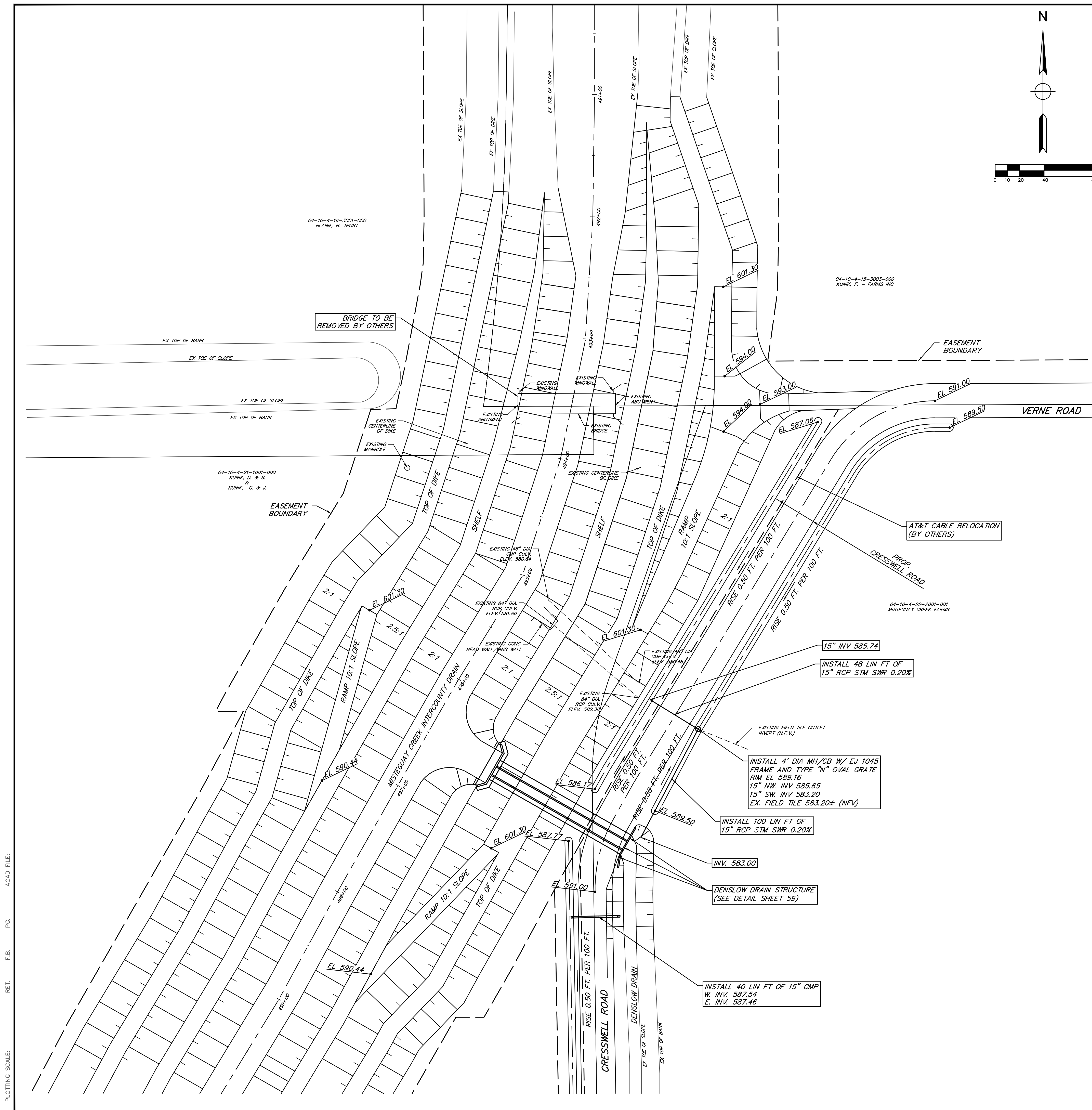
**LEGEND**

- DRAIN CENTERLINE
- - - - - EXISTING GROUND CROSS SECTION
- — — — — PROPOSED CHANNEL/DIKE CROSS SECTION
- MINIMUM DIKE ELEVATION
- [Pink Area] PROPOSED CUT AREA
- [Green Area] PROPOSED FILL AREA

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>CROSS SECTIONS STA. 609+50 TO 610+00</b>			
<small>DE. BY: POC/LDO CH. BY: NDC</small> <small>DR. BY: POC/LDO APP. BY: RBH</small>		<small>PROJECT NO. 118598SG2010</small>	
<small>STDS.</small>	<small>SHEET 45 OF 64</small>	<small>DIV</small>	
<small>DATE SCALE</small> <small>APRIL, 2019</small> <small>1" = 20'</small>	<small>FILE NO.</small> <b>DR-2367-45</b>	<small>2</small>	

SAGINAW OFFICE  
230 S. Washington Ave.  
Saginaw, MI 48607  
Tel. 989-754-4717  
Fax. 989-754-4440  
www.SpicerGroup.com

C:\p02\10118598SG2010\2010 Mistegway Creek Intercommunity Drain\DR2367-45.dwg, XREFS: none, 4/20/2019 3:52:56 PM, cshamp



**TYPICAL GRAVEL ROAD CROSS SECTION**  
NOT TO SCALE

**LEGEND**

- ROAD CL
- DRAIN ALIGNMENT
- DRAIN CENTERLINE
- PROPOSED STRUCTURE
- EASEMENT BOUNDARY
- AT&T CABLE
- TOP OF BANK
- TOE OF SLOPE
- GRADING

**CONSTRUCTION NOTES**

1. ALL R.C.P. JOINTS SHALL HAVE JOINT TIES AT TWO POINTS. TIES SHALL BE 3"x18"x3/8" PLATE WITH 3/4" ANCHOR BOLT EMBEDDED 2.5".
2. FLAPGATES SHALL BE FLATBACK STAINLESS STEEL WITH EXTRA WIDE FLANGE.
3. REMOVAL OF EXISTING DENSLAW DRAIN FLAPGATE STRUCTURE IS INCLUDED IN UNIT PRICE FOR DIKE RECONSTRUCTION.
4. EXISTING ROAD BED FROM CRESSWELL ROAD RELOCATION IS TO STAY IN PLACE.
5. SEE SHEET 59 FOR DETAILS ON PROP FLAPGATE STRUCTURE ON DENSLAW DRAIN.

INSTALL 48 LIN FT OF 15" RCP STM SWR 0.20%

INSTALL 4" DIA MH/CB W/ EJ 1045 FRAME AND TYPE "M" OVAL GRATE RIM EL 589.16 15" NW INV 585.65 15" SW INV 583.20 EX. FIELD TILE 583.20± (NFV)

INSTALL 100 LIN FT OF 15" RCP STM SWR 0.20%

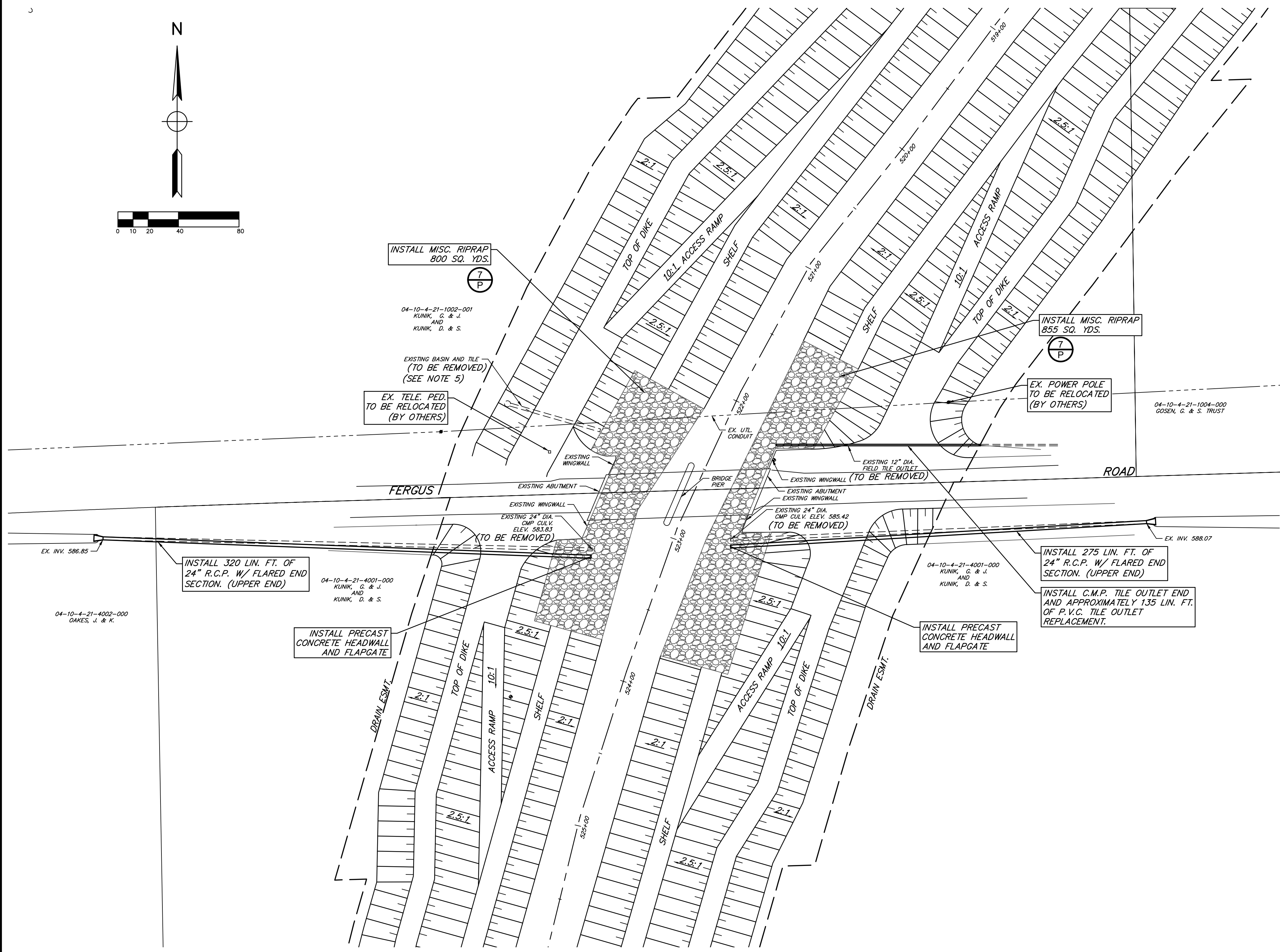
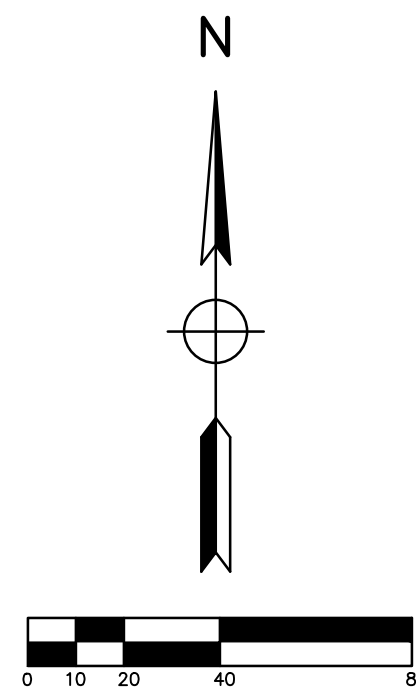
DENSLAW DRAIN STRUCTURE (SEE DETAIL SHEET 59)

INSTALL 40 LIN FT OF 15" CMP W. INV. 587.54 E. INV. 587.46

PLOTING SCALE: RET. F.B. PG. ACAD FILE:

BY	MARK	REVISIONS	DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>			
<p>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</p>			
<p><b>CRESSWELL ROAD RELOCATION</b></p>			
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>	
<p>DE. BY: POC/LDO CH. BY: NDC</p>		<p>PROJECT NO. 1185985G2010</p>	
<p>DR. BY: POC/LDO APP. BY: RBH</p>		<p>SHEET 50 OF 64</p>	
<p>STDS.</p>		<p>DIV</p>	
<p>DATE SCALE APRIL, 2019 1" = 40'</p>		<p>FILE NO. DR-2367-50</p>	
		<p>2</p>	





**FERGUS ROAD PLAN VIEW**  
SCALE: 1" = 40'

**CONSTRUCTION NOTES**

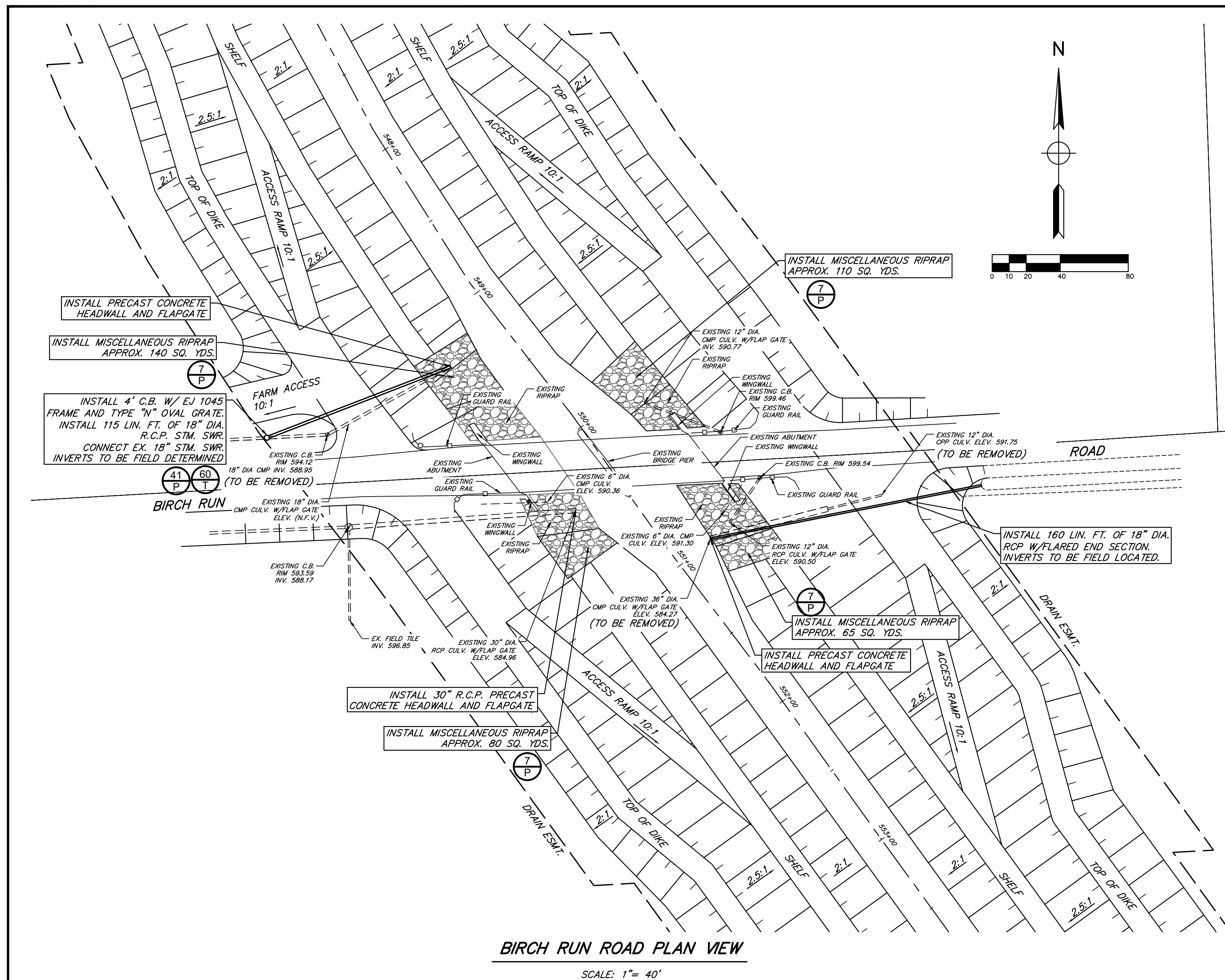
- ALL R.C.P. JOINTS SHALL HAVE JOINT TIES AT TWO POINTS. TIES SHALL BE 3"x18"x3/8" PLATE WITH 3/4" ANCHOR BOLT EMBEDDED 2.5".
- PRECAST CONCRETE HEADWALLS SHALL BE MDOT STANDARD (R-85-D). HEADWALLS SHALL INCLUDE KNEE-WALL AND SHALL BE CONSTRUCTED WITHOUT BAFFLE.
- FLAPGATES SHALL BE FLATBACK STAINLESS STEEL WITH EXTRA WIDE FLANGE.
- CONTRACTOR TO GRADE AS NEEDED AND DETERMINED BY ENGINEER TO PROVIDE SMOOTH TRANSITIONS FROM PROPOSED DIKE TO EXISTING BRIDGE AND PROPOSED RIPRAP.
- COST FOR REMOVING EXISTING BASIN AND TILE IN NORTHWEST QUADRANT IS INCLUDED IN BID PRICE FOR SITE CLEANING.

BY	MARK	REVISIONS	DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>			
<p>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</p>			
<p><b>FERGUS ROAD BRIDGE STRUCTURE DETAIL STATION 522+68</b></p>			
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com</p>	
<p>DE. BY: POC/LDO CH. BY: NDC DR. BY: POC/LDO APP. BY: RBH</p>		<p>PROJECT NO. <b>1185985G2010</b></p>	
<p>STDS.</p>		<p>SHEET <b>51</b> OF <b>64</b></p>	
<p>DATE <b>APRIL, 2019</b> SCALE <b>AS SHOWN</b></p>		<p>FILE NO. <b>DR-2367-51</b></p>	
		<p>DIV <b>2</b></p>	

C:\p02101185985G2010\2019\_Mistegway\_Creek\_Intercounty\_Drain\Drawings\DR-2367-51\_FERGUS BRIDGE.DWG, 2019.04.11 10:53:53 AM, User: jmmaburg, DWG To PDF Plot, ANCH (at sheet) 04.00, 36.00 inches, 1:1

PLOTING SCALE: RET. F.B. PG. ACAD FILE:





**BIRCH RUN ROAD PLAN VIEW**

SCALE: 1" = 40'

**CONSTRUCTION NOTES**

1. ALL R.C.P. JOINTS SHALL HAVE JOINT TIES AT TWO POINTS. TIES SHALL BE 3"x18"x3/8" PLATE WITH 3/4" ANCHOR BOLT EMBEDDED 2.5".
2. PRECAST CONCRETE HEADWALLS SHALL BE MDOT STANDARD (R-85-D). HEADWALLS SHALL INCLUDE KNEE-WALL AND SHALL BE CONSTRUCTED WITHOUT BAFFLE.
3. FLAPGATES SHALL BE FLATBACK STAINLESS STEEL WITH EXTRA WIDE FLANGE.
4. CONTRACTOR TO GRADE AS NEEDED AND DETERMINED BY ENGINEER TO PROVIDE SMOOTH TRANSITIONS FROM PROPOSED DIKE TO EXISTING BRIDGE AND PROPOSED RIPRAP.
5. COST FOR REMOVING EXISTING ROADSIDE DRAINAGE PIPE AND STRUCTURES IS INCLUDED IN BID PRICE FOR NEW STRUCTURE.
6. CONTRACTOR TO CONSTRUCT FARM ACCESS DRIVE ON BACK SIDE OF DIKE AS SHOWN ON PLANS. DRIVE SURFACE SHALL BE GRASS WITH TOP WIDTH OF 24'. COST IS INCLUDED IN UNIT BID PRICE FOR DIKE AND CHANNEL RECONSTRUCTION.

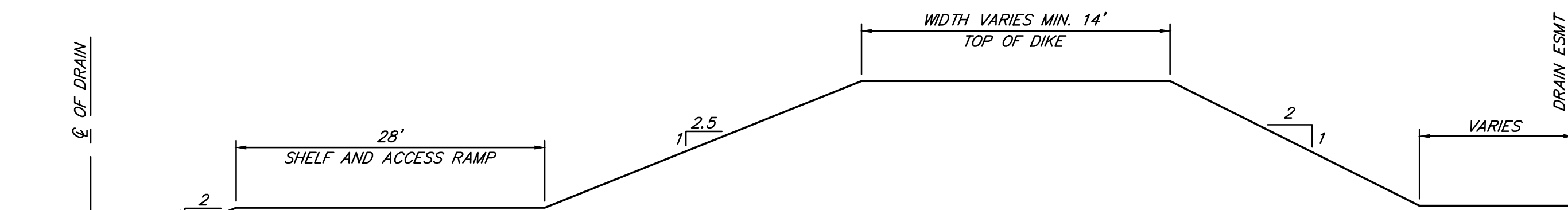
BY	MARK	REVISIONS	DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>			
<p>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</p>			
<p><b>BIRCH RUN ROAD BRIDGE STRUCTURE DETAIL STATION 550+25</b></p>			
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel: 989-754-4717 Fax: 989-754-4440 www.SpicerGroup.com</p>	
DE. BY:	POC/LDO	CH. BY:	NDC
DR. BY:	POC/LDO	APP. BY:	RBH
PROJECT NO.		1185985G2010	
STDS.	SHEET 52 OF 64	DIV	
DATE	APRIL, 2019	FILE NO.	DR-2367-52
SCALE	AS SHOWN		2

C:\p02101185985G2010\2019\Mistegway\Creek\spicer\michigan\DR2367-52\_BIRCH\_RUN.dwg, 08/28/2019 11:22:52 AM, chad.mma@spicer.com, DWG To PDF.pc3, ARCTH full bleed D 65.00x, 36.00 inches, 1:1

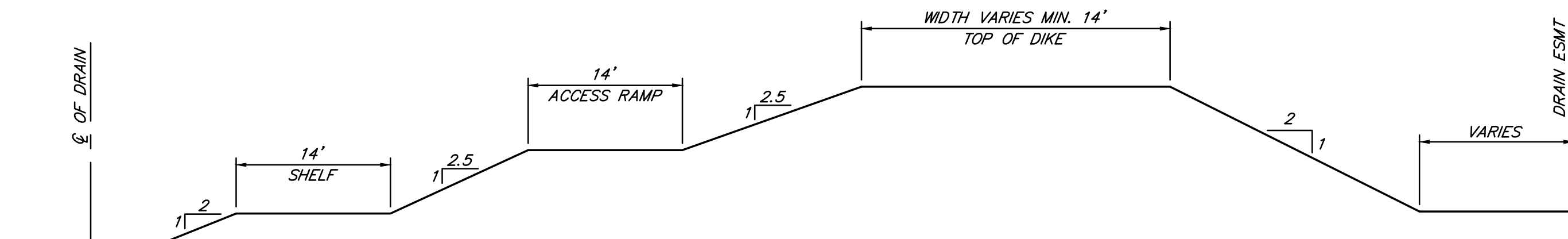
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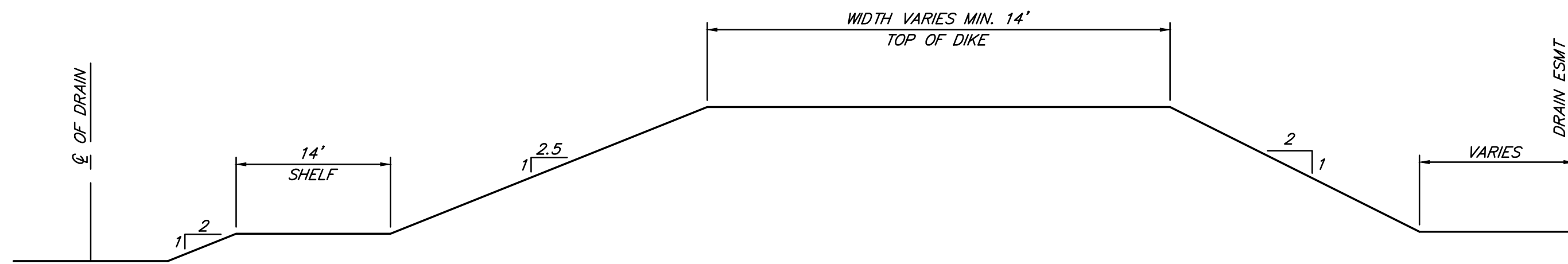




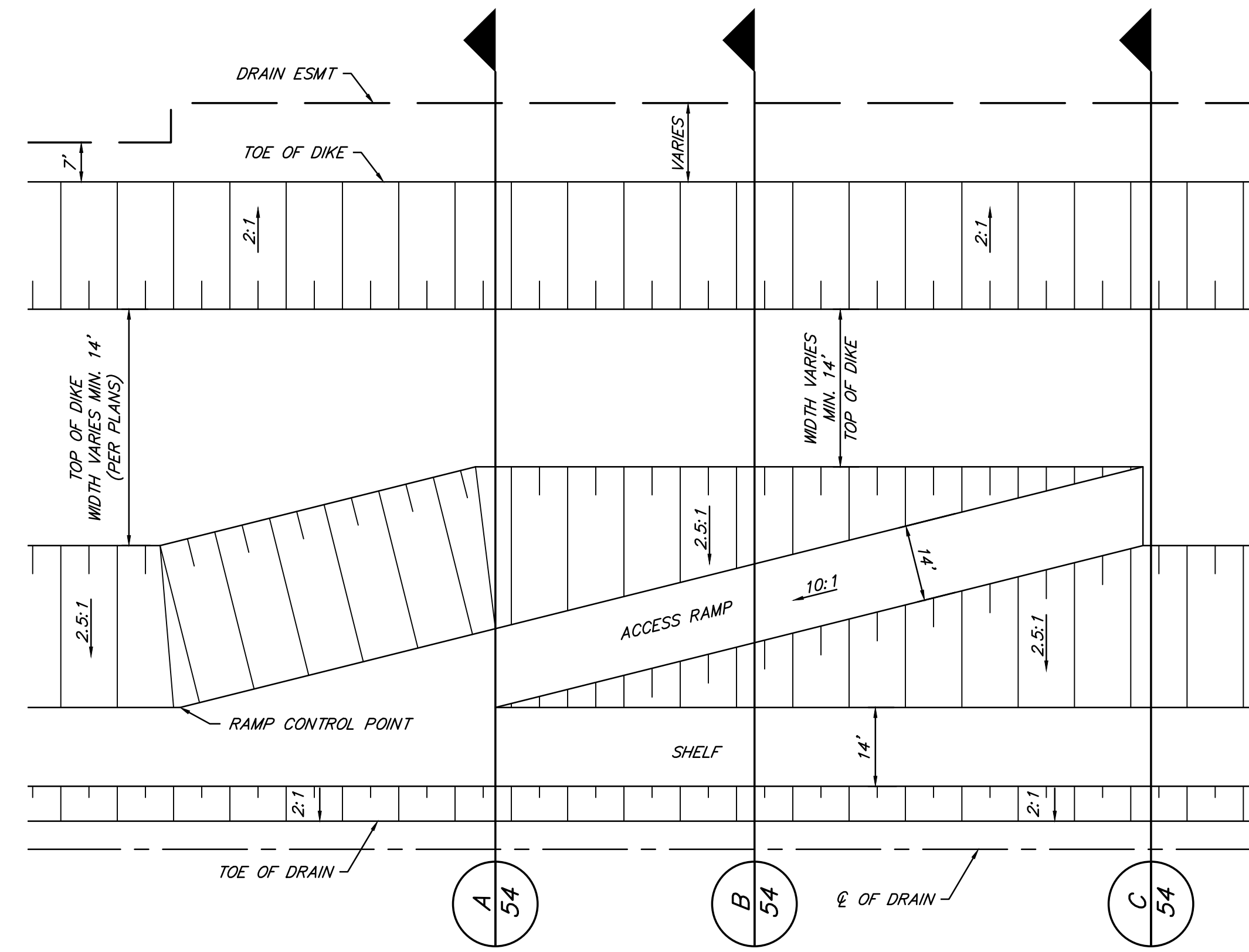
**A**  
54 **CROSS SECTION**  
NOT TO SCALE



**B**  
54 **CROSS SECTION**  
NOT TO SCALE



**C**  
54 **CROSS SECTION**  
NOT TO SCALE




**ACCESS RAMP DETAIL**  
NOT TO SCALE

RAMP CONTROL POINT TABLE		
P.O.B. STA.	ELEVATION	SIDE
497+56	589.62	RIGHT
498+73	589.80	LEFT
519+05	590.33	LEFT
519+42	590.21	RIGHT
524+83	590.45	LEFT
525+54	590.35	RIGHT
547+01	590.84	RIGHT
547+80	590.94	LEFT
552+49	590.97	RIGHT
553+44	591.06	LEFT
607+65	593.49	LEFT
607+66	593.49	RIGHT

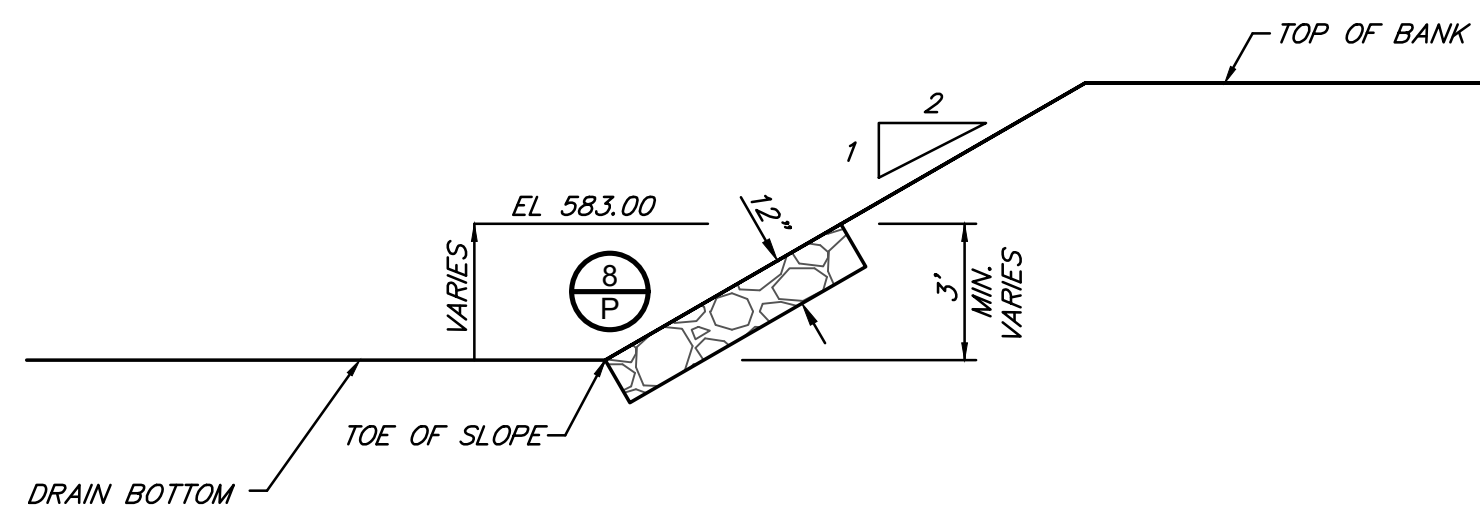
NOTE: ALL COST FOR CONSTRUCTION AND GRADING OF ACCESS RAMP ARE INCLUDED IN THE UNIT BID PRICE FOR DIKE AND CHANNEL RECONSTRUCTION.

PLOTING SCALE: RET. F.B. PG. ACAD FILE:

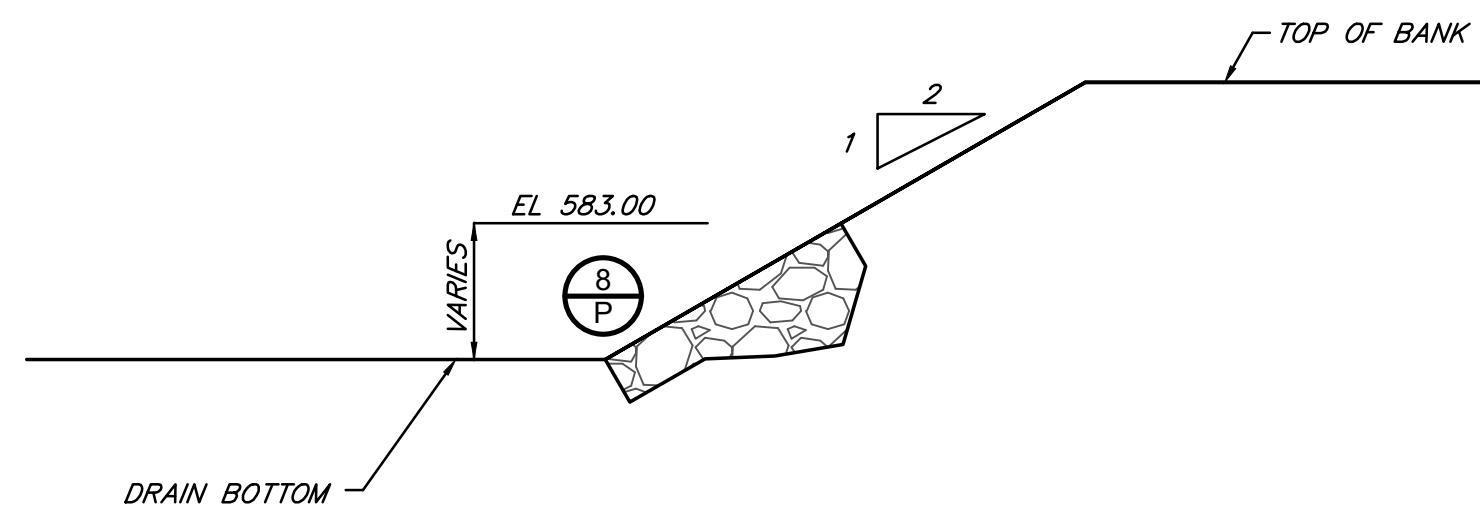
BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
<b>2011 MISTEGUAY CREEK IMPROVEMENTS</b> SAGINAW COUNTY, MICHIGAN			
<b>DIKE AND ACCESS RAMP</b> <b>DETAILS AND SECTIONS</b>			
		<small>SAGINAW OFFICE            230 S. Washington Ave.            Saginaw, MI 48607            Tel. 989-754-4717            Fax. 989-754-4440            www.SpicerGroup.com</small>	
DE. BY: POC/LDO	CH. BY: NDC	PROJECT NO. 118598SG2010	
DR. BY: POC	APP. BY: RBH		
STDS.	SHEET 54 OF 64	DIV	
DATE SCALE: APRIL, 2019 AS SHOWN	FILE NO. DR-2367-54	2	

C:\p0210118598SG2010\2010\_Mistegway\_Creek\_Improvements\Drawings\DR2367-54\_DIKE\_DETAILS.dwg, DR2367-54\_DIKE\_DETAILS.dwg, 4/20/2019 12:01:19 PM, chad.sorenson@spicer.com, 24.00 x 36.00 inches, 1:1

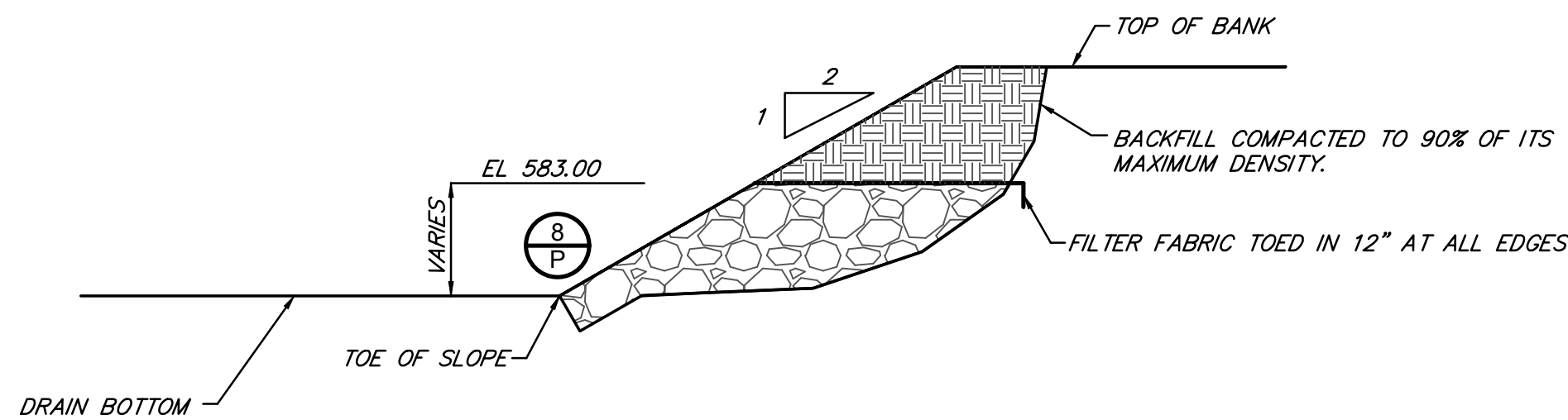




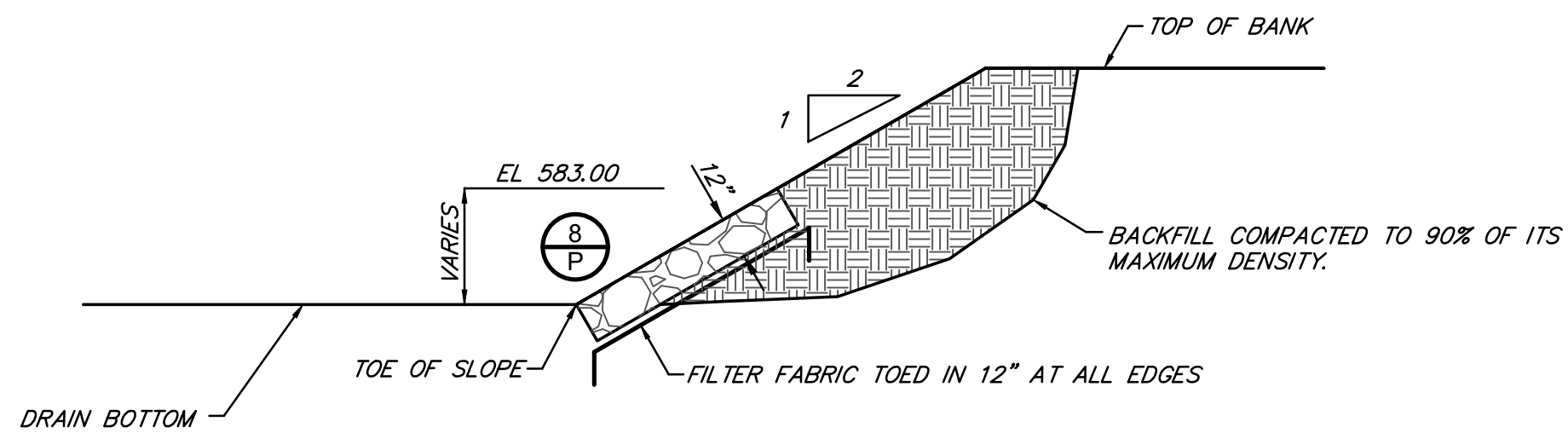
**TYPE I**  
**RIPRAP TOE OF SLOPE PROTECTION**  
**LESS THAN 15 SQ FT/FT**  
 NOT TO SCALE



**TYPE II**  
**RIPRAP TOE OF SLOPE PROTECTION**  
**15-30 SQ FT/FT**  
 NOT TO SCALE



**TYPE III (WET CONDITIONS)**  
**RIPRAP TOE OF SLOPE PROTECTION**  
**GREATER THAN 30 SQ FT/FT**  
 NOT TO SCALE



**TYPE III (DRY CONDITIONS\*)**  
**RIPRAP TOE OF SLOPE PROTECTION**  
**GREATER THAN 30 SQ FT/FT**  
 NOT TO SCALE

NOTE:  
 \* CONTRACTOR IS RESPONSIBLE FOR WATER CONTROL TO CREATE DRY BACKFILL CONDITIONS.

TYPE I LEFT SIDE	
FROM STATION	TO STATION
507+25	511+00
518+30	533+50
536+50	538+25
546+00	547+00
557+50	558+50
563+75	565+00
580+50	581+50
589+00	600+50
608+50	610+38

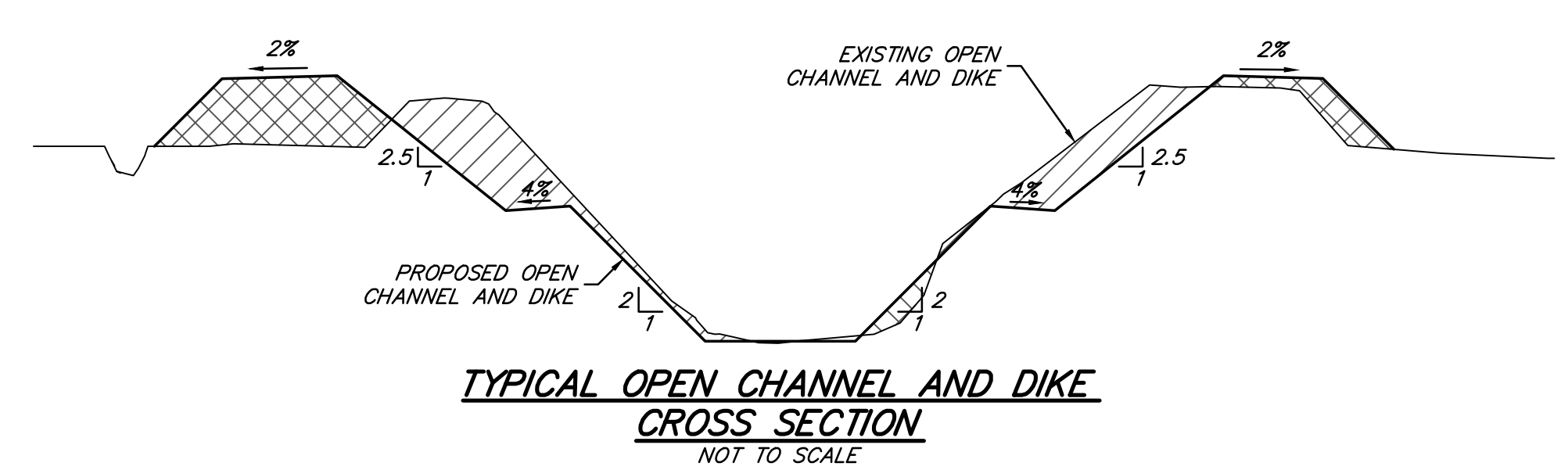
TYPE I RIGHT SIDE	
FROM STATION	TO STATION
504+00	506+00
508+50	510+00
531+00	533+00
545+00	546+00
555+00	557+75
579+75	581+00
599+50	601+50
604+50	605+50
608+50	610+38

TYPE II LEFT SIDE	
FROM STATION	TO STATION
511+00	512+75
516+00	518+50
533+50	536+50
539+50	541+00
559+50	561+50
573+50	575+50
581+50	582+50
588+00	589+00
597+50	599+00

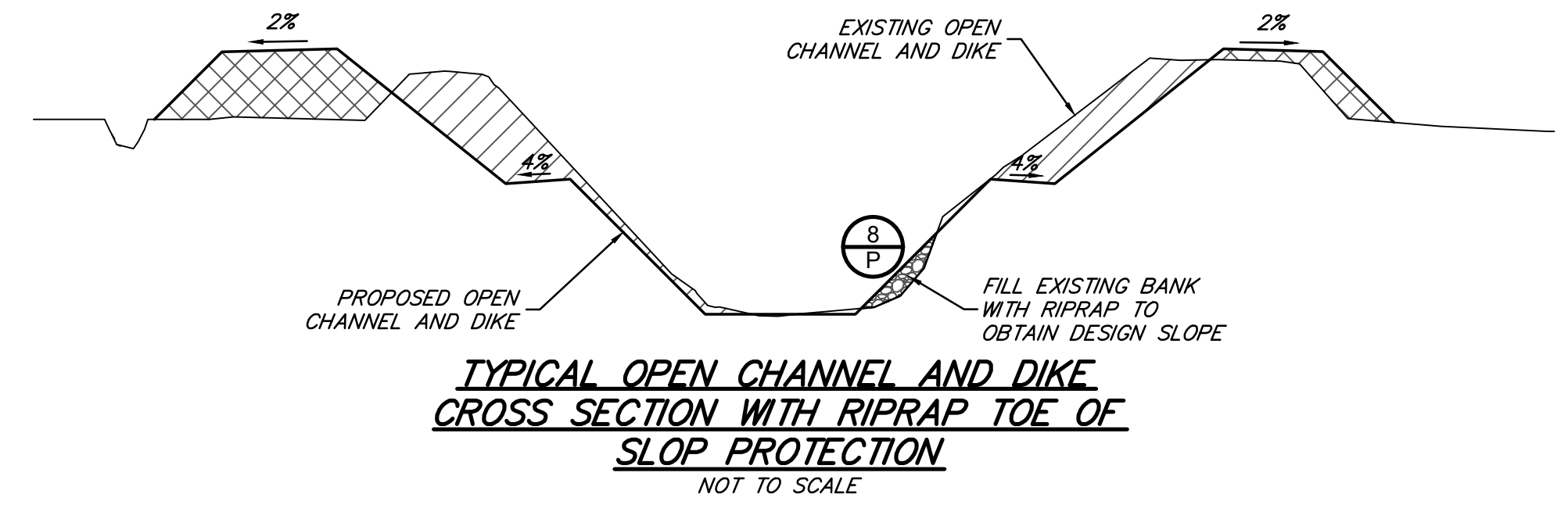
TYPE II RIGHT SIDE	
FROM STATION	TO STATION
506+00	507+00
516+00	518+00
541+00	542+50
546+00	547+50
578+75	579+75
589+50	590+50
591+00	592+00

TYPE III LEFT SIDE	
FROM STATION	TO STATION
493+00	497+00
512+75	516+00
541+00	542+00
561+50	563+75
582+50	584+00

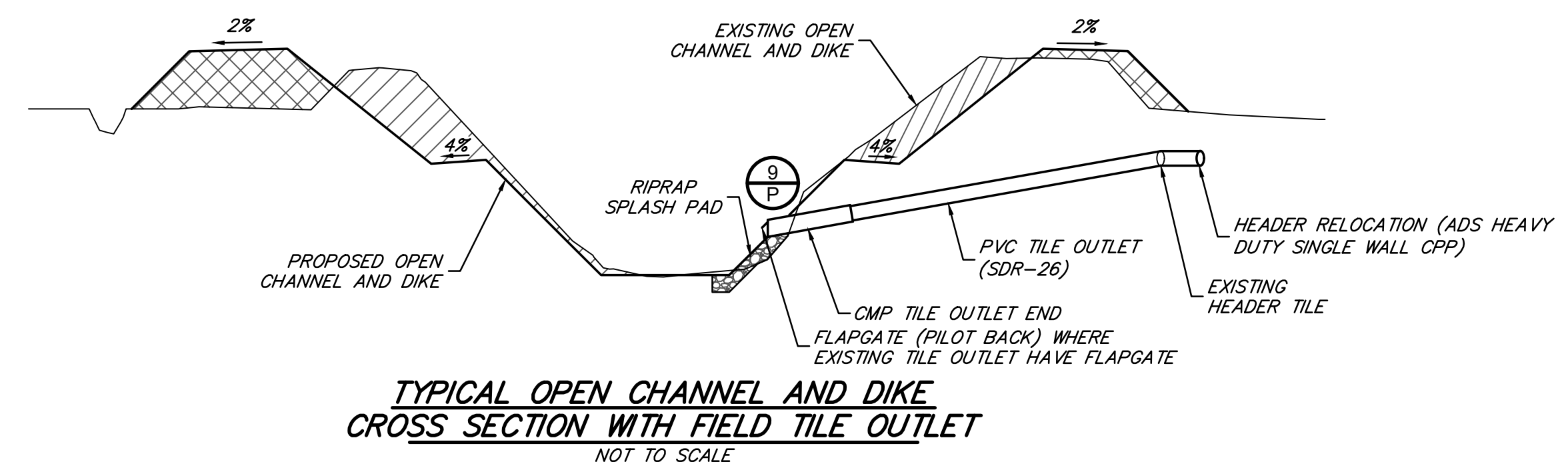
TYPE III RIGHT SIDE	
FROM STATION	TO STATION
493+00	502+00
507+00	508+50
518+00	527+00
534+50	540+00
542+50	545+00
586+25	587+25
592+00	594+25



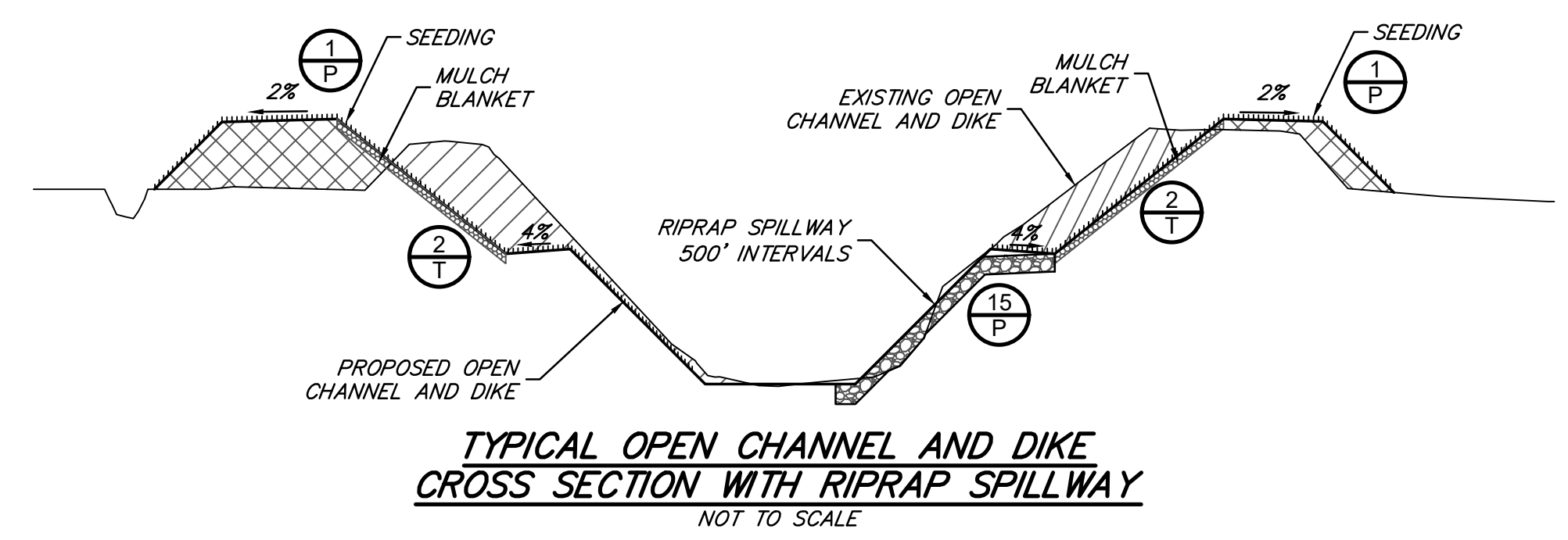
**TYPICAL OPEN CHANNEL AND DIKE**  
**CROSS SECTION**  
 NOT TO SCALE



**TYPICAL OPEN CHANNEL AND DIKE**  
**CROSS SECTION WITH RIPRAP TOE OF**  
**SLOPE PROTECTION**  
 NOT TO SCALE



**TYPICAL OPEN CHANNEL AND DIKE**  
**CROSS SECTION WITH FIELD TILE OUTLET**  
 NOT TO SCALE



**TYPICAL OPEN CHANNEL AND DIKE**  
**CROSS SECTION WITH RIPRAP SPILLWAY**  
 NOT TO SCALE

BY	MARK	REVISIONS	DATE
THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.			
<b>MISTEGUAY CREEK INTERCOUNTY DRAIN</b> <b>SAGINAW COUNTY, MICHIGAN</b>			
<b>STANDARD DETAILS</b>			
<b>Spicer Group</b>		<b>SAGINAW OFFICE</b> 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com	
DE. BY: LDO	CH. BY: NDC	PROJECT NO. 118598SG2010	
DR. BY: LDO	APP. BY: RBH	SHEET 55 OF 64	
DATE SCALE: APRIL 2019 AS SHOWN	FILE NO. DR-2367-55	DIV 2	

C:\p0210118598SG2010\2010 Misteguay Creek Intercommunity Drain Details.dwg, 04/23/2019, 4:18:19 PM, c:\ad\adim\baugh, DWG TO PDF.pc, ARCH (Full Seed) (24.80 x 36.00 Inches), L1

PLOTTING SCALE: RET. F.B. PC. ACAD FILE:







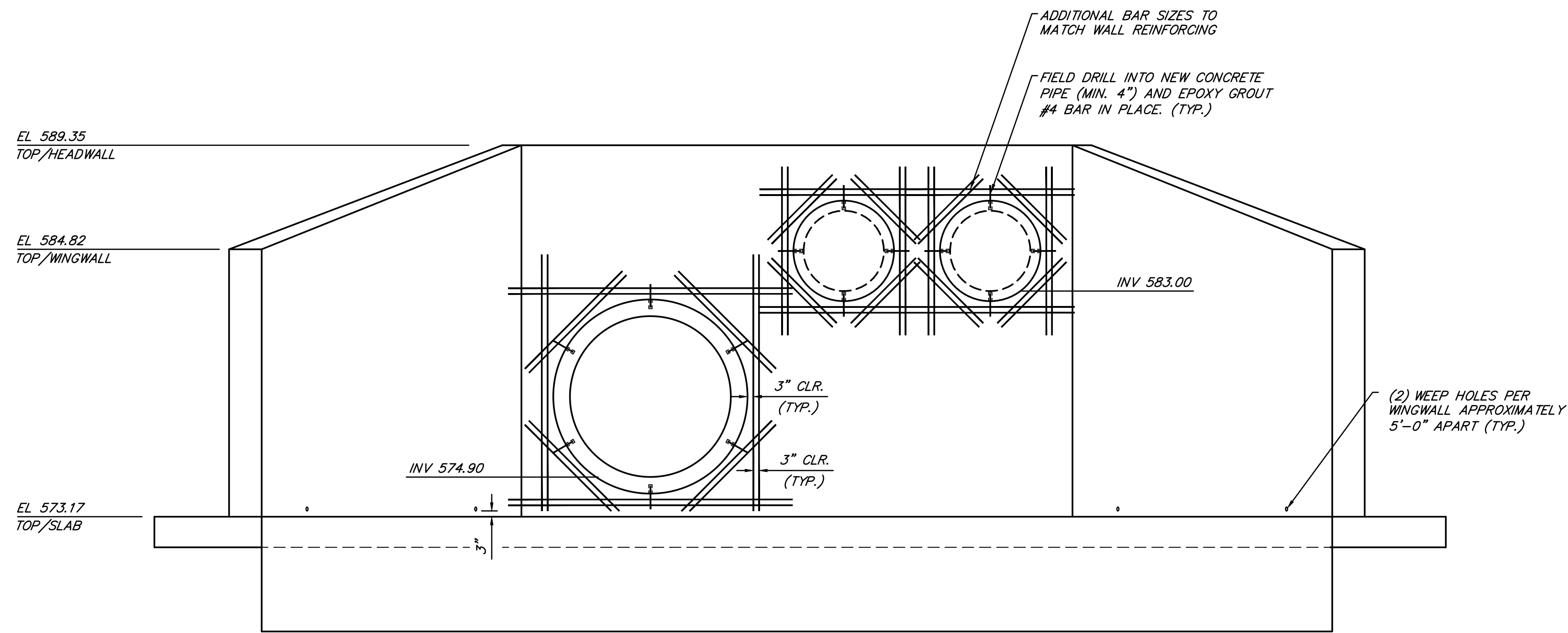




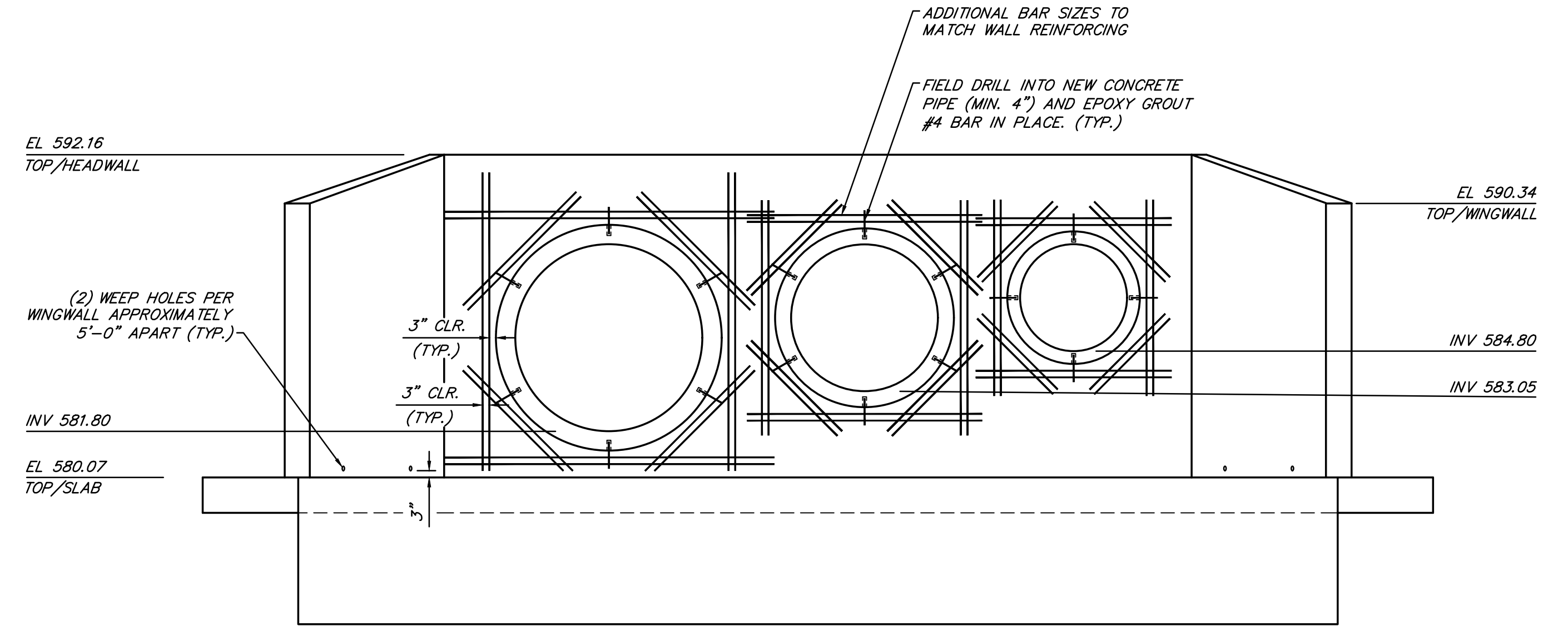




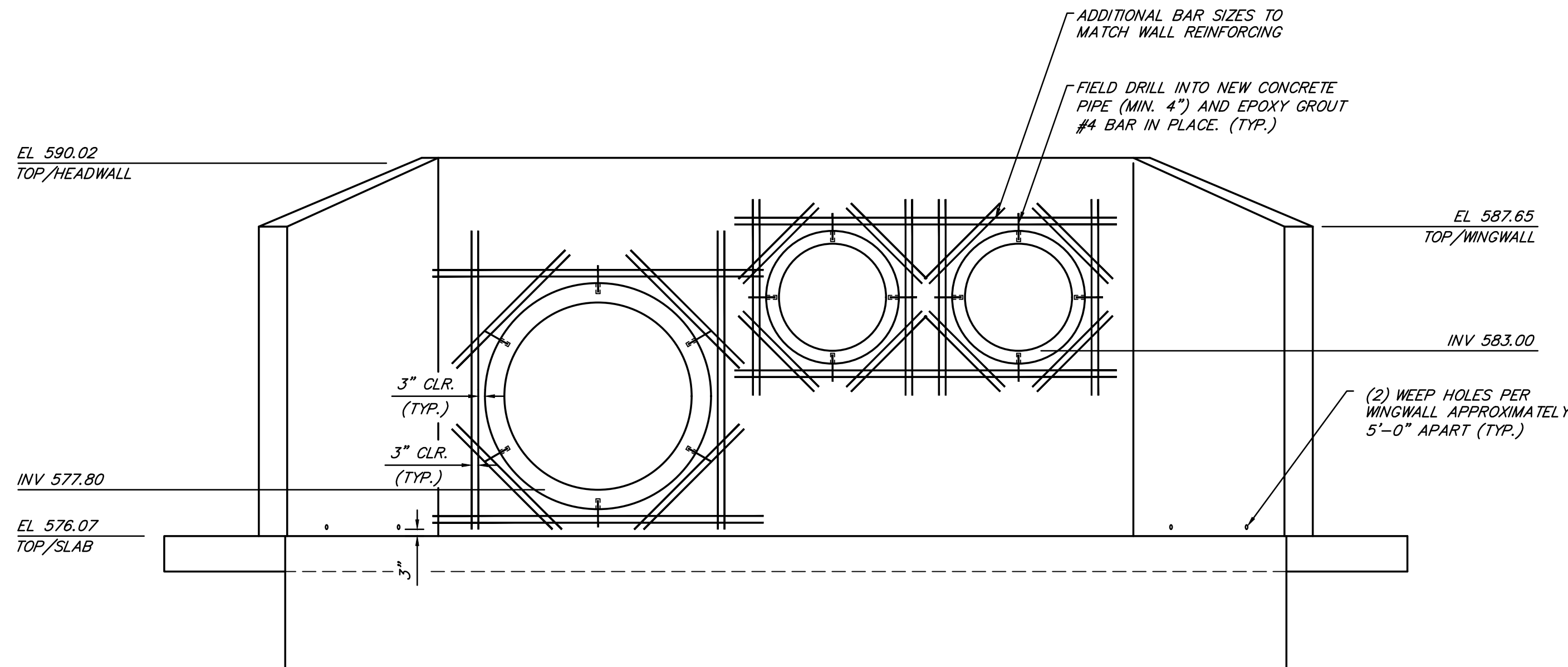




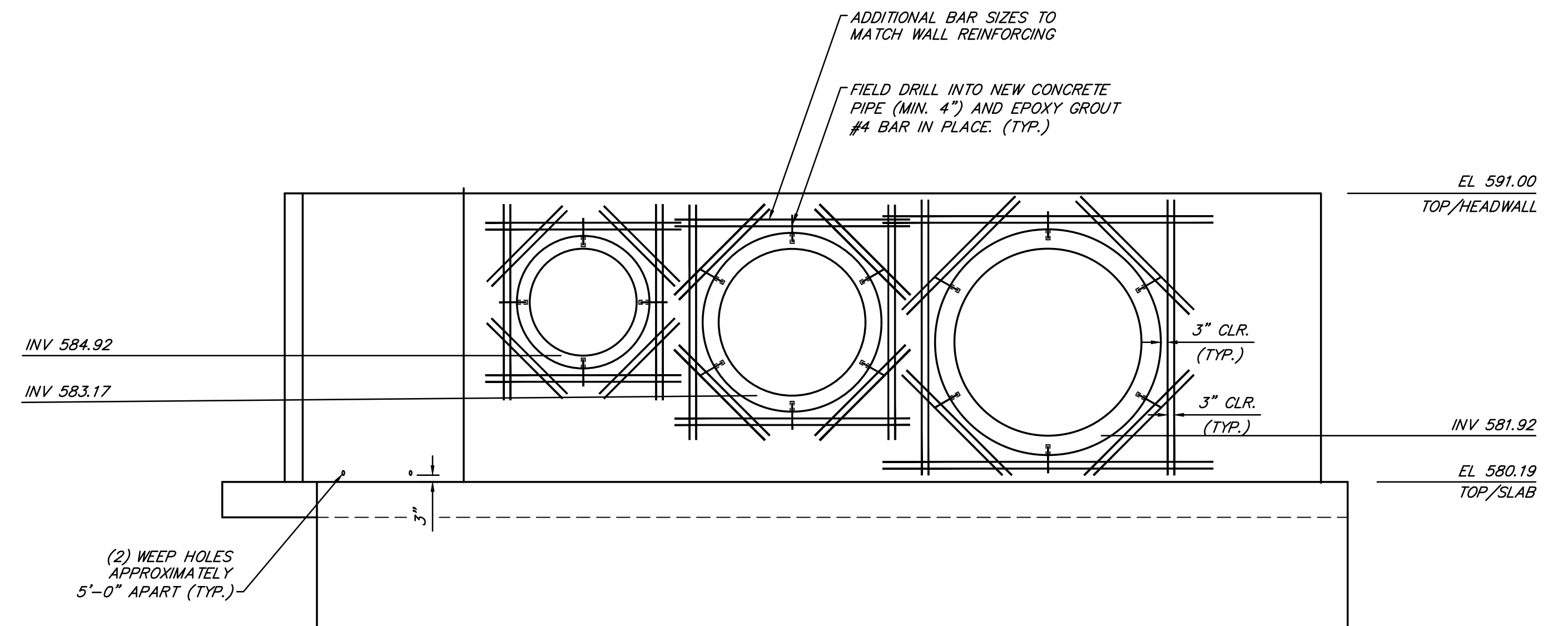
**MUNSON DRAIN DOWNSTREAM ELEVATION**  
SCALE: 1/4" = 1'-0"



**DENSLOW DRAIN DOWNSTREAM ELEVATION**  
SCALE: 1/4" = 1'-0"



**PEART DRAIN DOWNSTREAM ELEVATION**  
SCALE: 1/4" = 1'-0"



**DENSLOW DRAIN UPSTREAM ELEVATION**  
SCALE: 1/4" = 1'-0"

C:\p\p\2010\1185985G2010\1185985G2010\1185985G2010.dwg, 4/23/2019 4:12:17 PM, cad\_senabugh, DWG To PDF.pcpl, ARCH-epand D (24.00 x 36.00 inches), 1:1

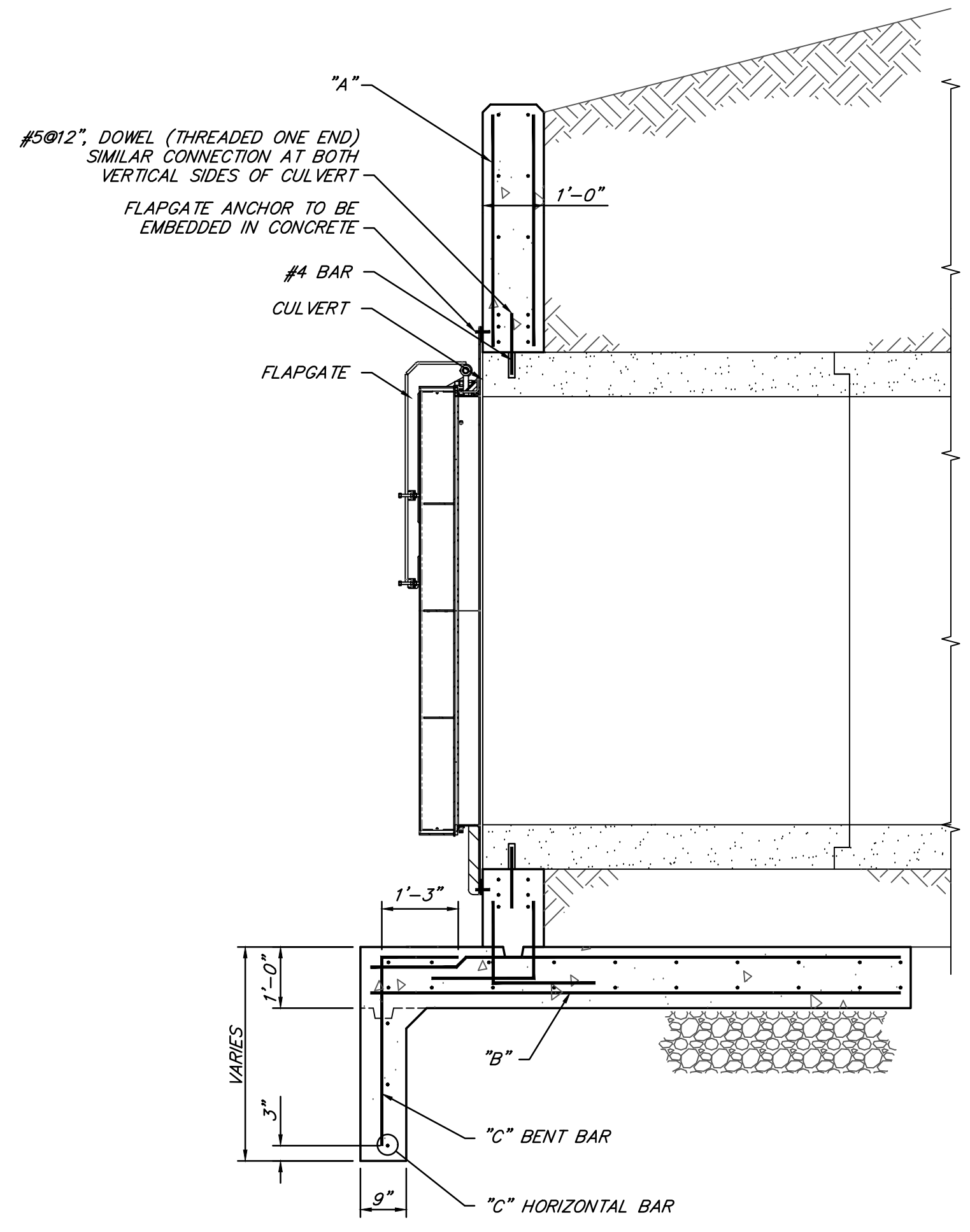
PLOTting SCALE: RET. F.B. PC. ACAD FILE:

BY	MARK	REVISIONS	DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>			
<p>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</p>			
<p><b>HEADWORKS ELEVATIONS</b></p>			
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>	
DE. BY: DPZ	CH. BY: NDC	PROJECT NO.	
DR. BY: RS	APP. BY: RBH	1185985G2010	
STDS.	SHEET 60 OF 64	DIV	
DATE: APRIL, 2019	FILE NO.	1/2	
SCALE: AS SHOWN	DR-2367-60		

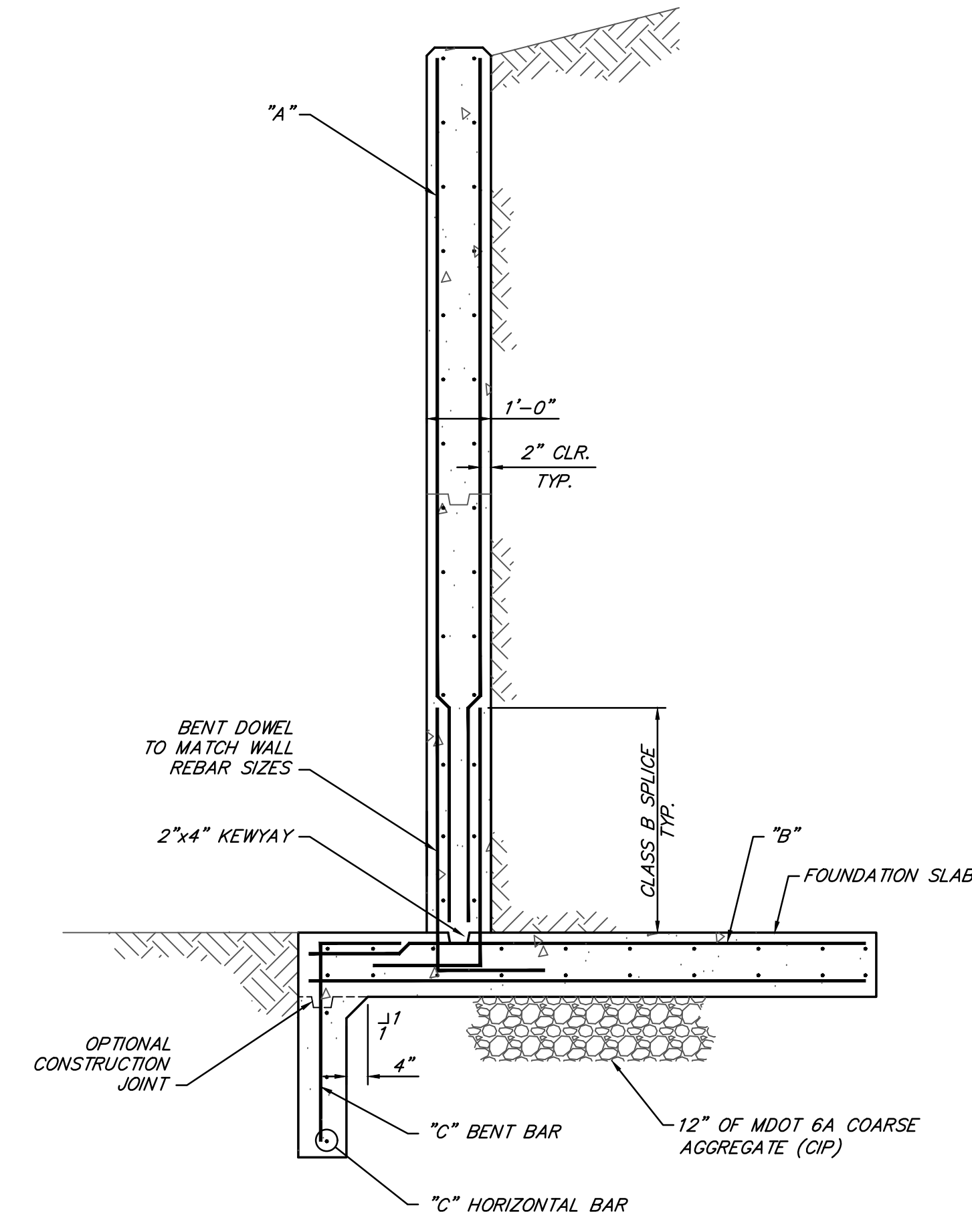


C:\p\2010\11898502\2010\11898502.dwg (11/11/2010 11:11 AM) (User: saramahugh) (DWG) (PLOT) (SCALE: 1/2" = 1'-0") (SHEET: 61 OF 64) (DIV: DR-2367-61)

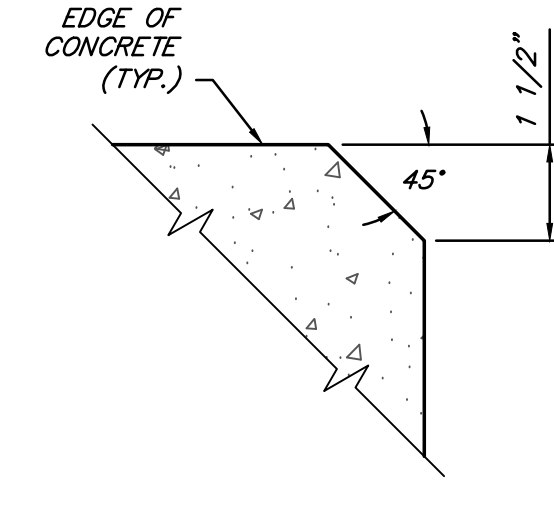
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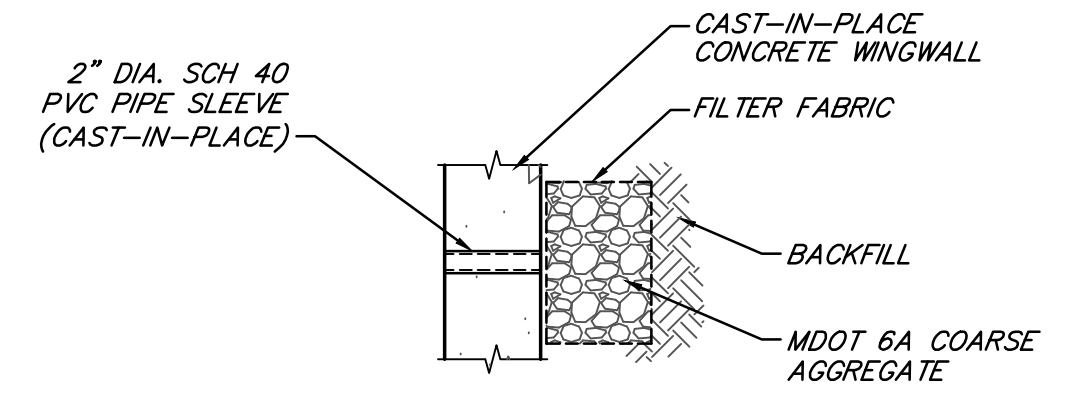
**TYPICAL SECTION THROUGH HEADWORKS AT CULVERT**  
 SCALE: 1/2" = 1'-0"



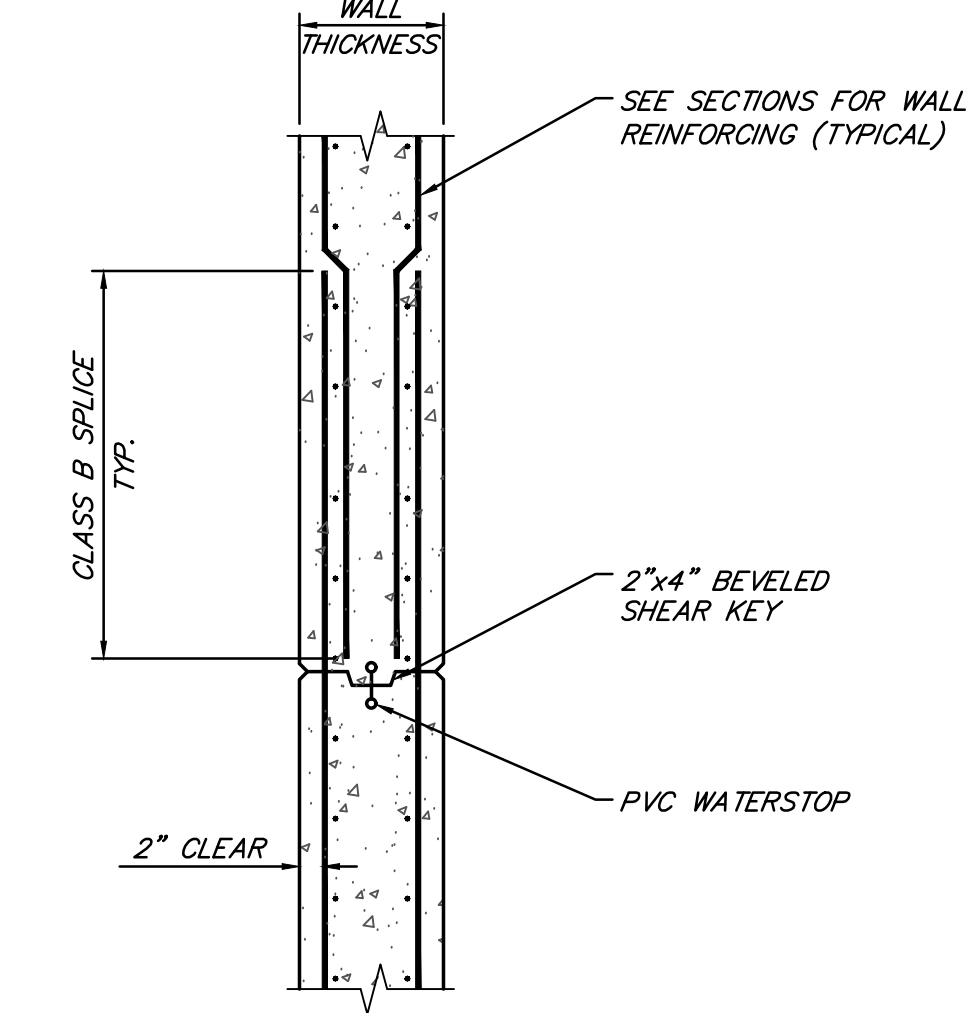
**TYPICAL SECTION THROUGH HEADWALL**  
 SCALE: 1/2" = 1'-0"



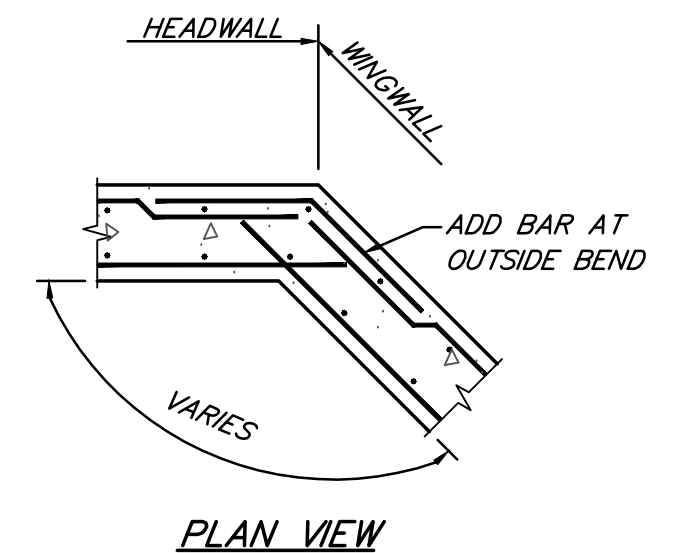
**TYPICAL CHAMFER DETAIL**  
 NOT TO SCALE  
 REQD. AT ALL EXPOSED CORNERS



**WEEP HOLE DETAIL**  
 SCALE: 1/2" = 1'-0"



**TYPICAL WALL CONSTRUCTION JOINT DETAIL**  
 NOT TO SCALE

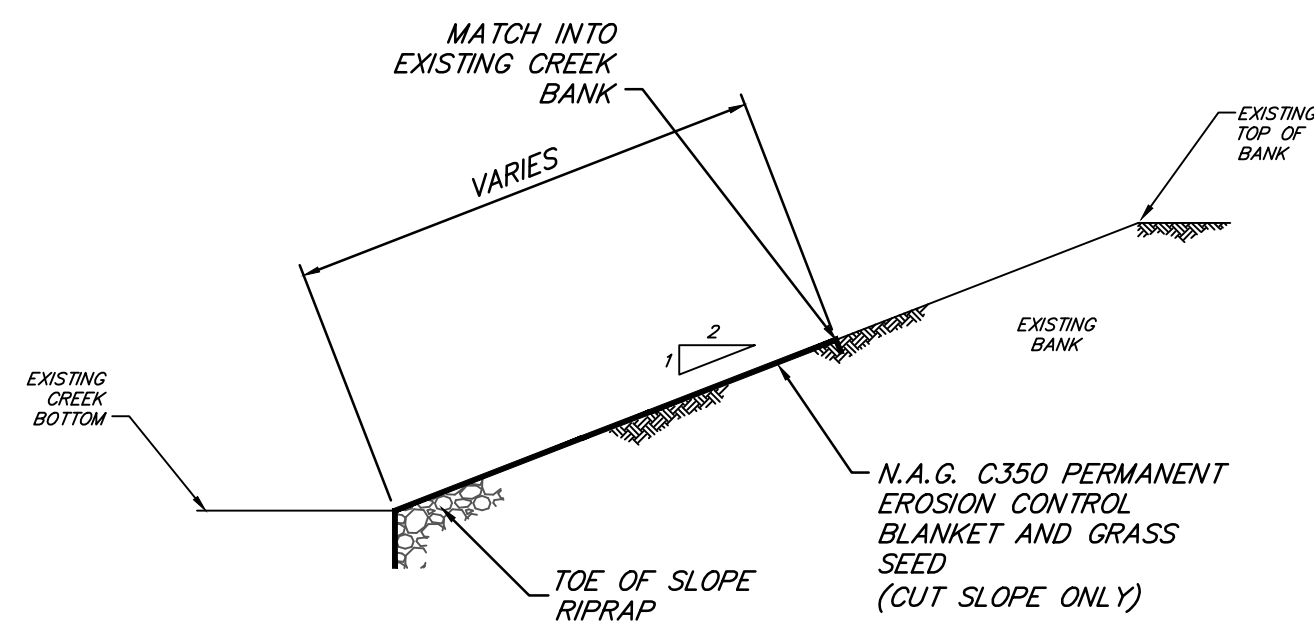
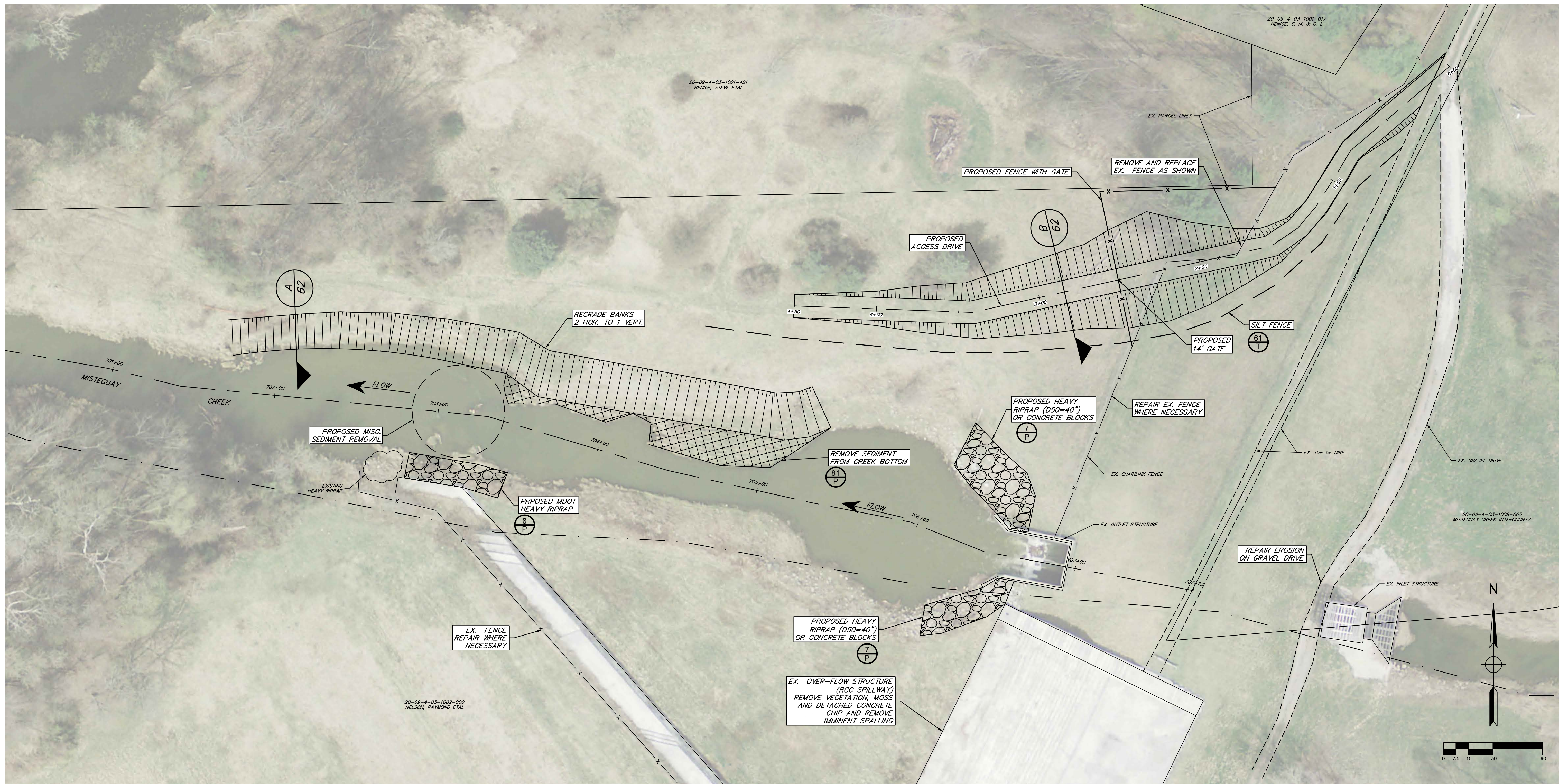


**CORNER BAR DETAIL AT HEADWALL**  
 SCALE: 1/2" = 1'-0"

REINFORCING SCHEDULE			
DRAIN	"A"	"B"	"C"
MUNSON DRAIN	#3@6", E.W.-E.F.	#3@6", E.W.-T/B	#4@12"
PEART DRAIN	#3@6", E.W.-E.F.	#3@9", E.W.-T/B	#4@12"
DENSLow DRAIN DOWNSTREAM	#3@6", E.W.-E.F.	#3@12", E.W.-T/B	#4@12"
DENSLow DRAIN UPSTREAM	#5@9", E.W.-E.F.	#5@12", E.W.-T/B	#4@12"

BY	MARK	REVISIONS	DATE
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<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW COUNTY, MICHIGAN</b>			
<b>MISCELLANEOUS STRUCTURE DETAILS</b>			
<b>Spicer Group</b> <small>2013</small>		SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com	
DE. BY: DPZ	CH. BY: NDC	PROJECT NO.	
DR. BY: RS	APP. BY: RBH	1185985G2010	
STDS.	SHEET 61 OF 64	DIV	
DATE: APRIL, 2019	FILE NO.	1/2	
SCALE: AS SHOWN	DR-2367-61		

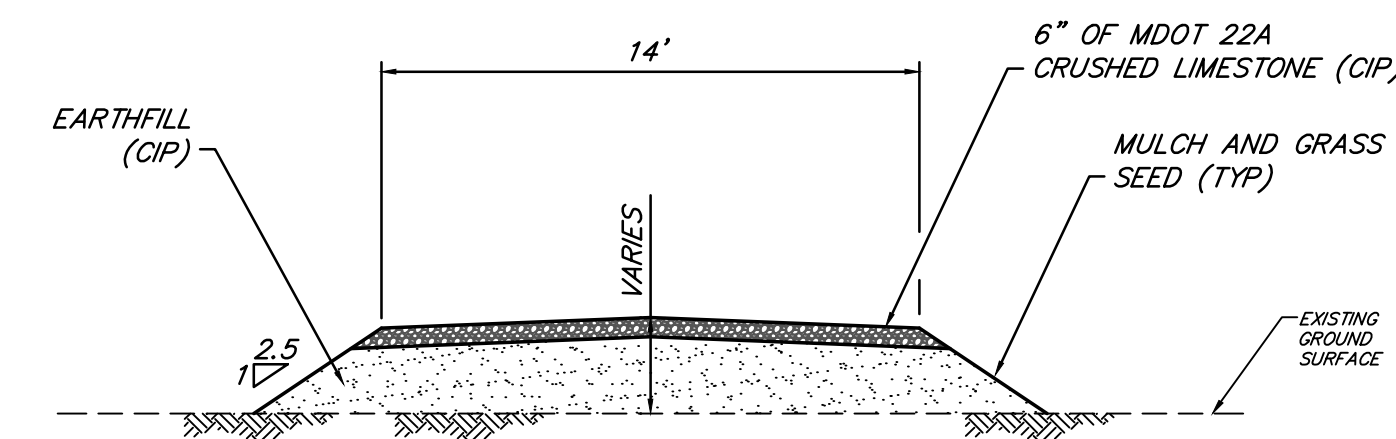




**A**  
62  
TYPICAL SECTION THROUGH TOE OF SLOPE PROTECTION AND SLOPE STABILIZATION  
NOT TO SCALE

**CONSTRUCTION NOTES:**

- HAUL SPOILS FROM CHANNEL GRADING AND EXCAVATION AS INDICATED IN THE PROPOSAL.
- REPAIR ALL DAMAGED COMPONENTS OF EXISTING DAM SECURITY FENCE. INSTALL PROPOSED SECTIONS OF FENCE AND PROPOSED GATE. ALL COST INCLUDED IN LUMP SUM BID PRICE FOR MISCELLANEOUS FENCE WORK. ALL PROPOSED FENCE SHALL MATCH CONSTRUCTION OF EXISTING FENCE.
- PROPOSED MISCELLANEOUS SEDIMENT REMOVAL INCLUDED IN UNIT BID PRICE FOR CHANNEL CLEANOUT AND BANK SLOPING. SEDIMENT SHALL BE REMOVED AS DIRECTED BY ENGINEER.
- COMPLETE DEWATERING PLUNGE POOL ON DAM OUTLET SHALL BE REQUIRED. ENGINEER IS TO REFORM INSPECTION ON PLUNGE POOL PRIOR TO RIPRAP OR CONCRETE BLOCKS BEING INSTALLED.



**B**  
62  
TYPICAL SECTION THROUGH PROPOSED ACCESS DRIVE  
NOT TO SCALE

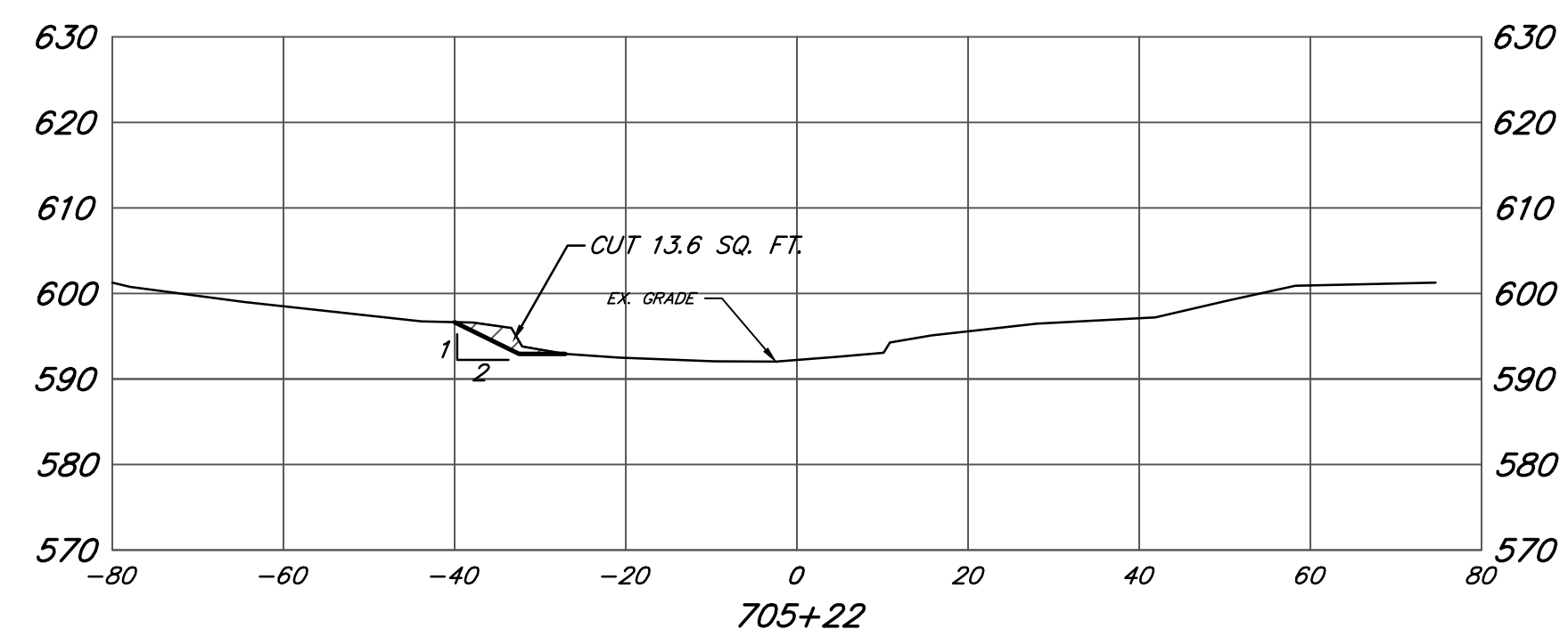
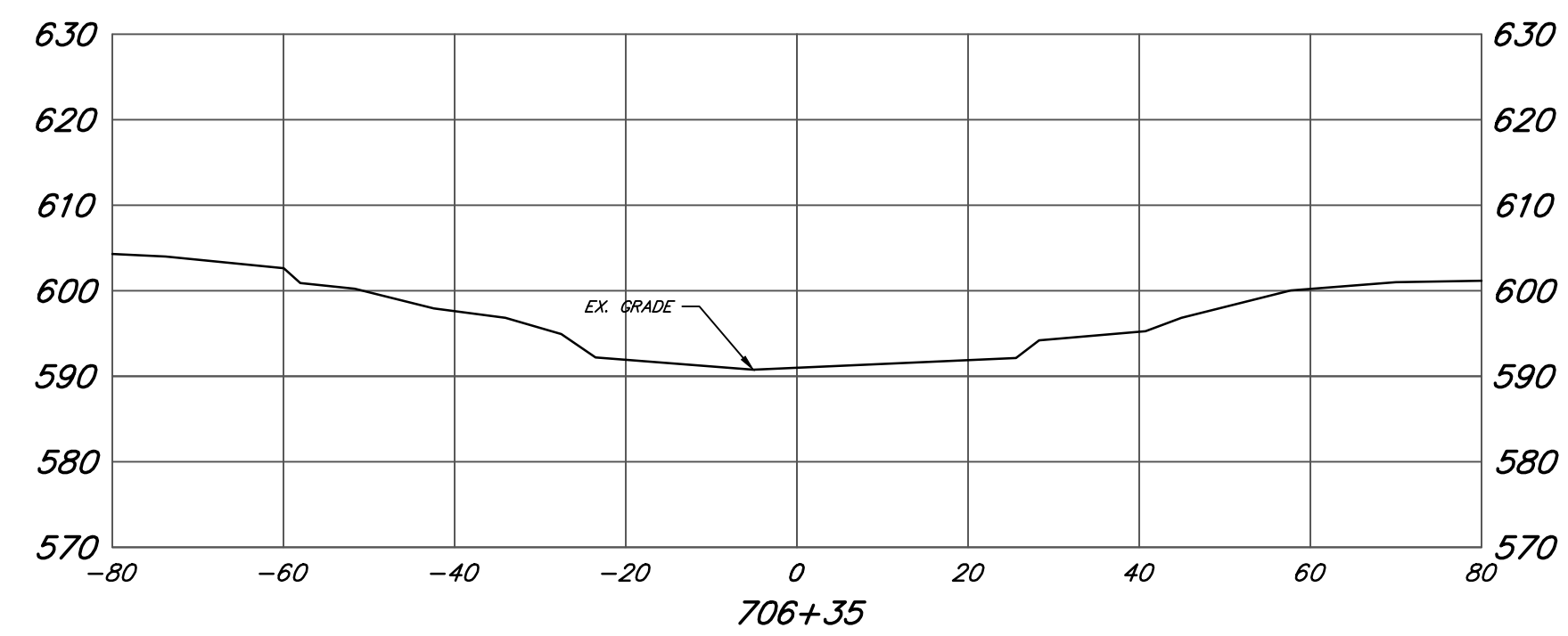
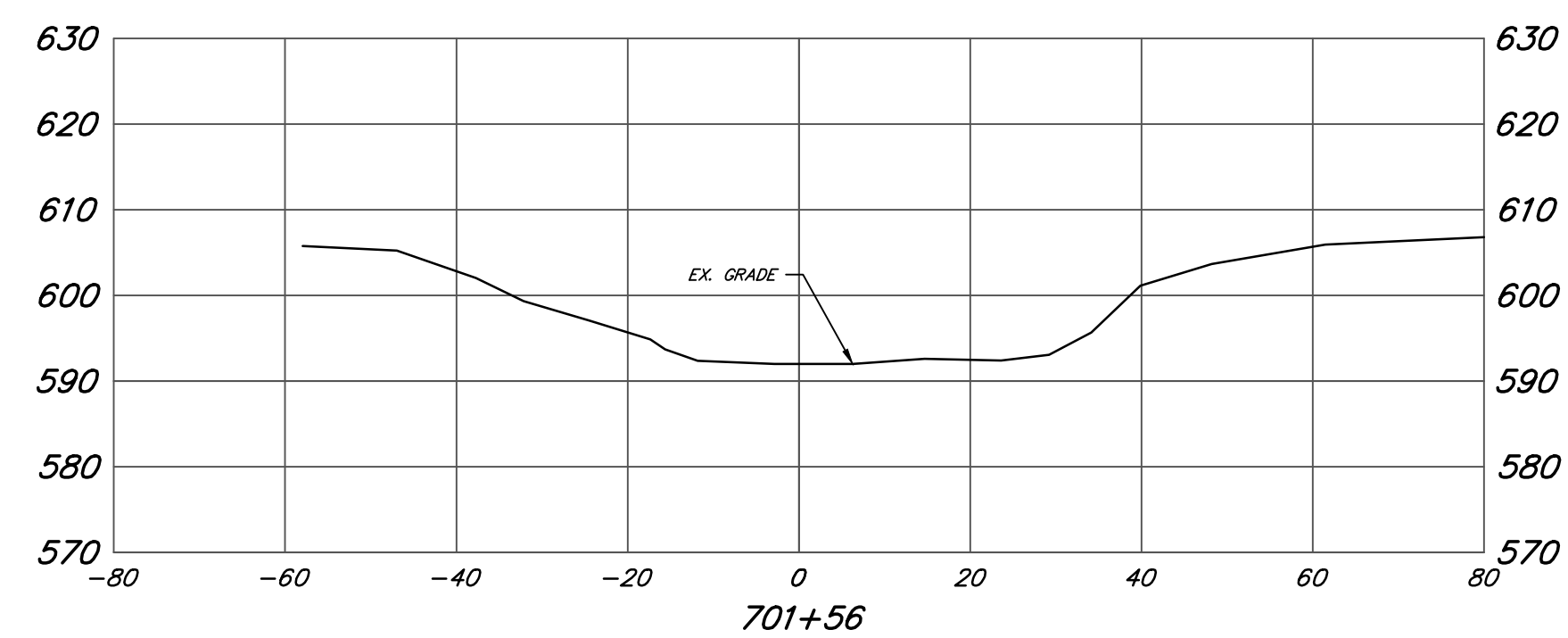
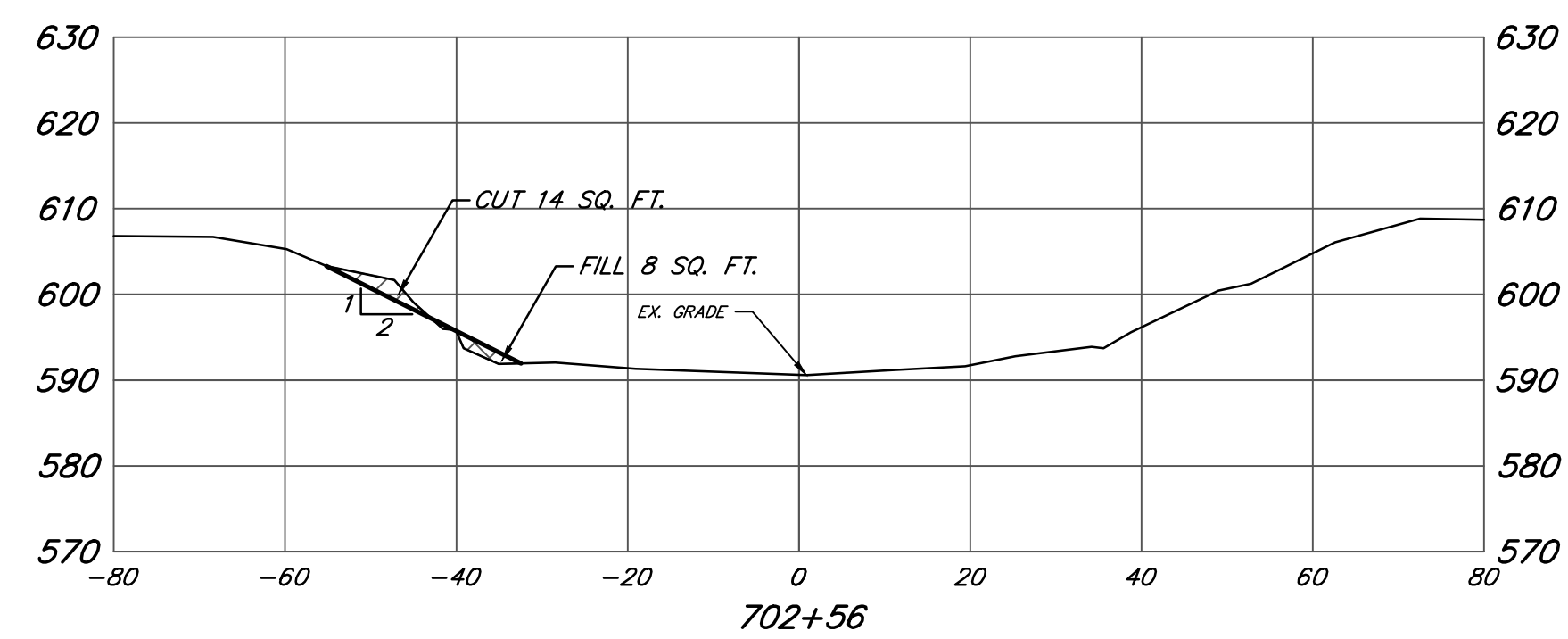
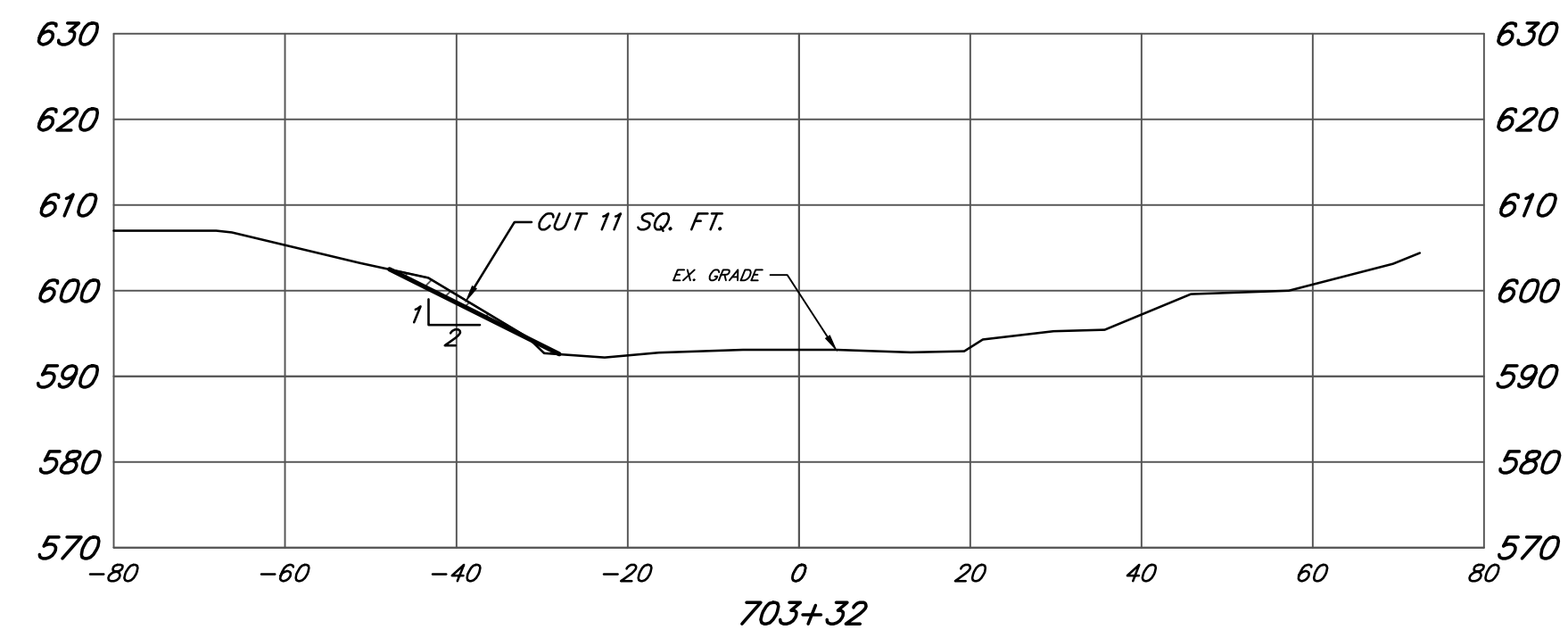
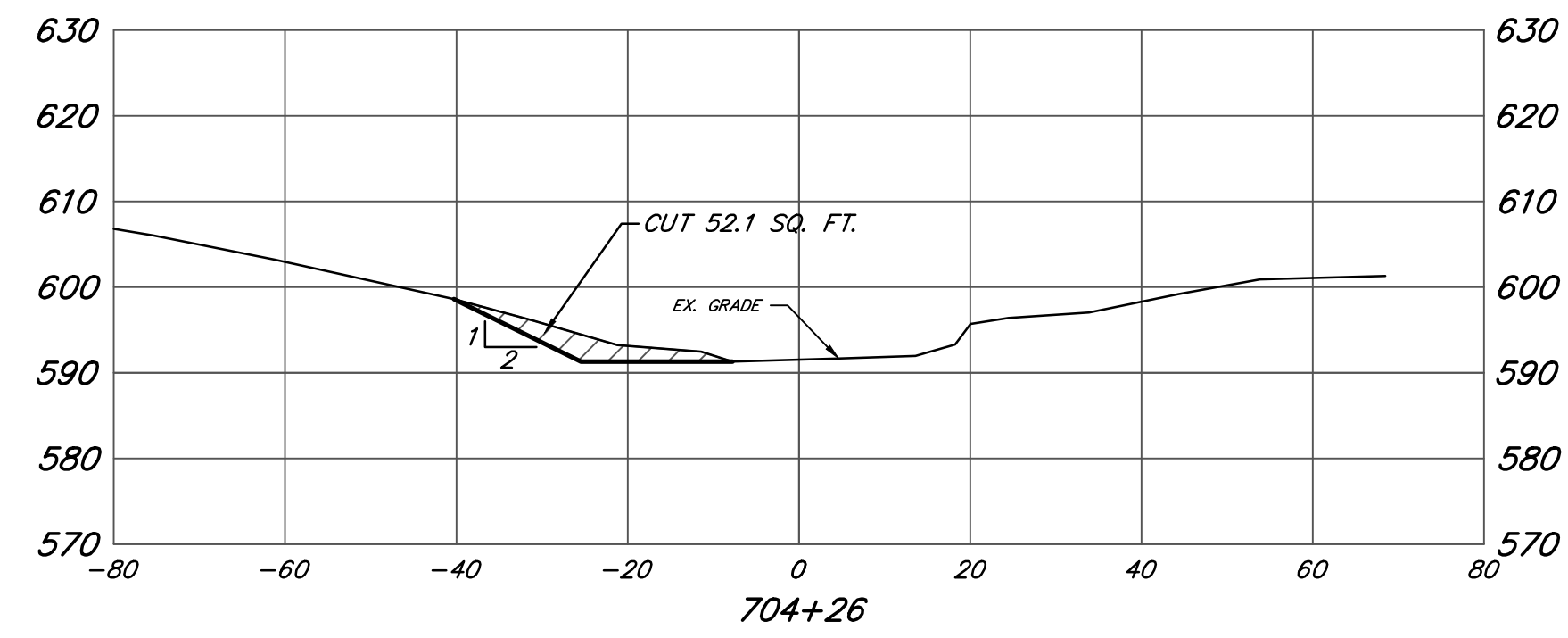
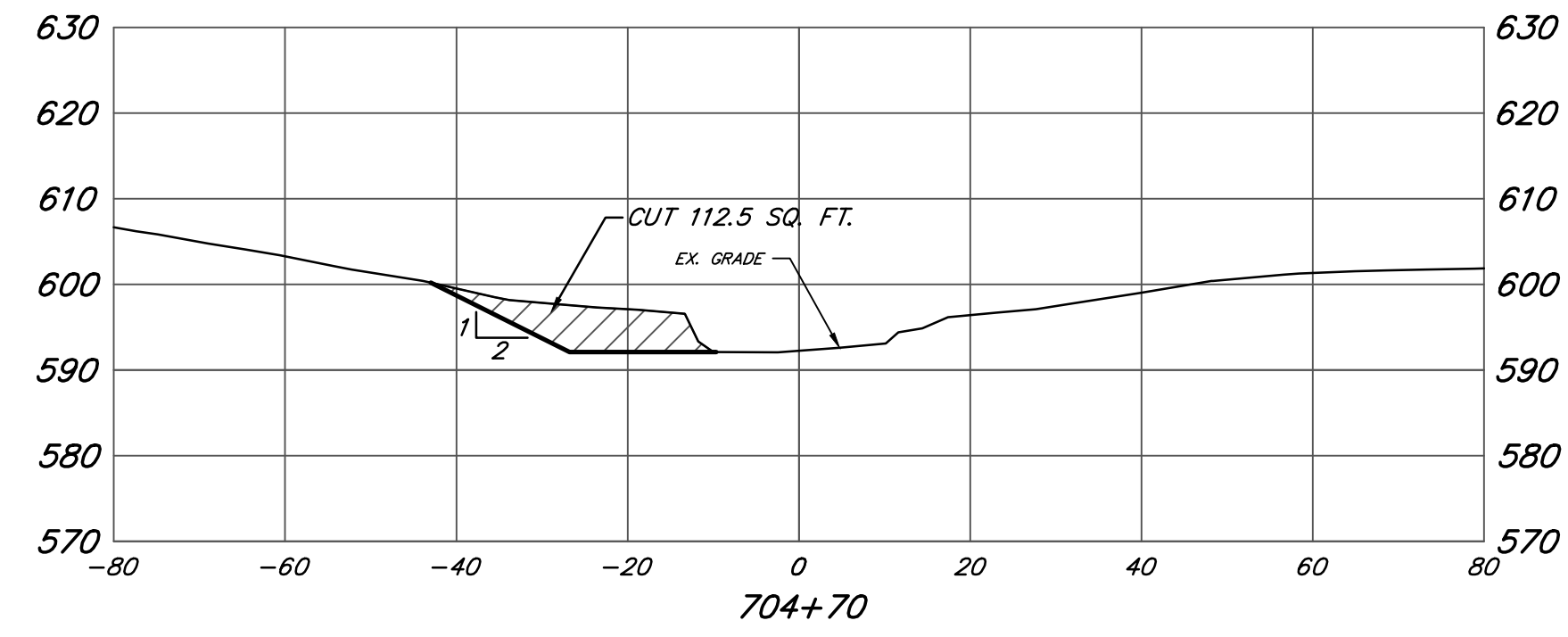
BY	MARK	REVISIONS	DATE
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<p>MISTEGWAY CREEK INTERCOUNTY DRAIN SAGINAW, MICHIGAN</p>			
<p><b>STRUCTURE NO. 4 DAM PLAN VIEW</b></p>			
<p>DE. BY: LDO DR. BY: LDO</p>		<p>CH. BY: NDC APP. BY: RBH</p>	
<p>STDS.</p>		<p>PROJECT NO. 1185985G2010</p>	
<p>DATE SCALE APRIL, 2019 1" = 30'</p>		<p>SHEET 62 OF 64 FILE NO. DR-3420-62</p>	
		<p>DIV 3</p>	


**Spicer Group**  
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230 S. Washington Ave.  
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Fax. 989-754-4440  
www.SpicerGroup.com

C:\p02101185985G2010\2019\Mistegway\_Creek\_Intercounty\_Drain\Structure\_No\_4\_Dam\_DWG\DR-3420-62.dwg, DR-3420-62.dwg, 2/26/2019 12:48:43 PM, Acad Interchange, DWG to PDF, ARCH, Full based 0.08, 60 x 24.00 Inches, 1:1

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:



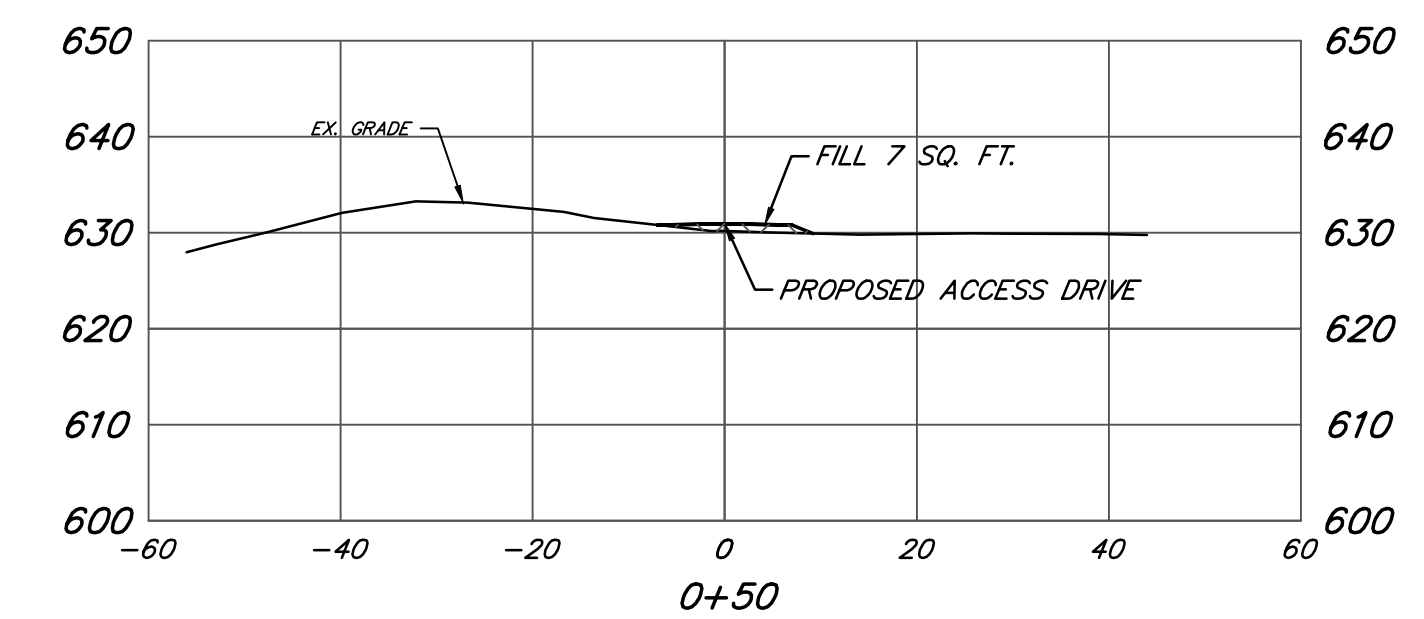
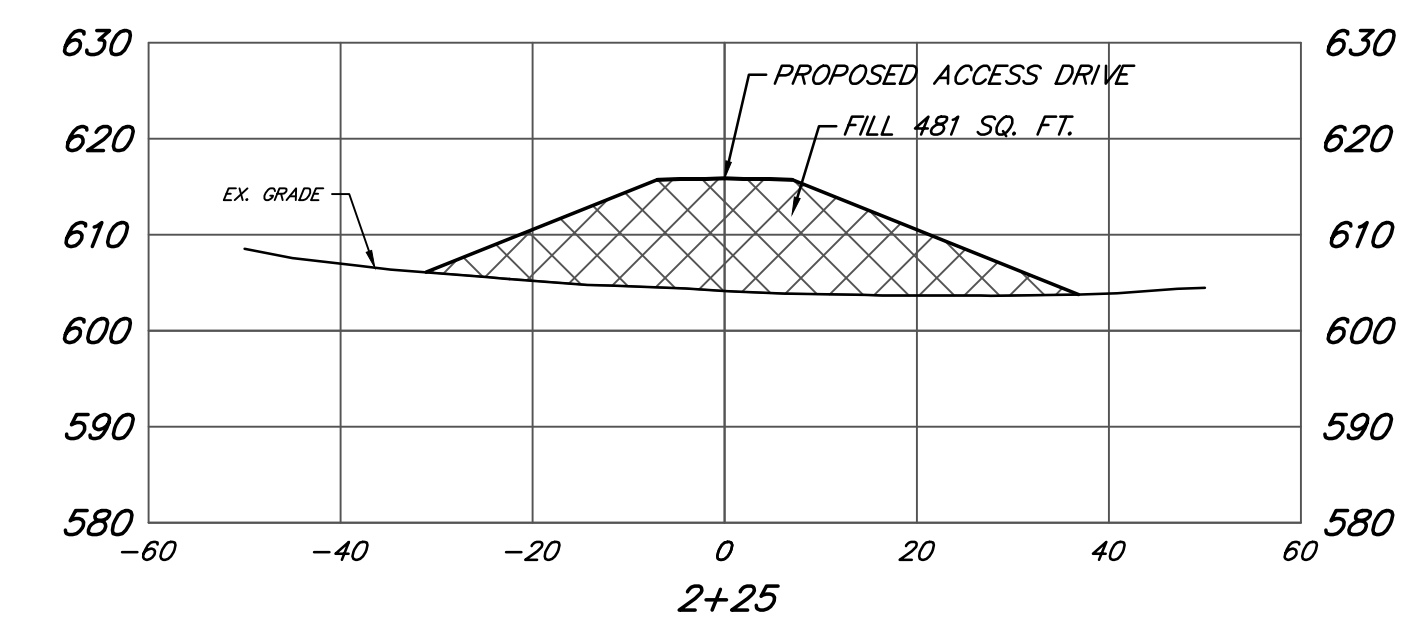
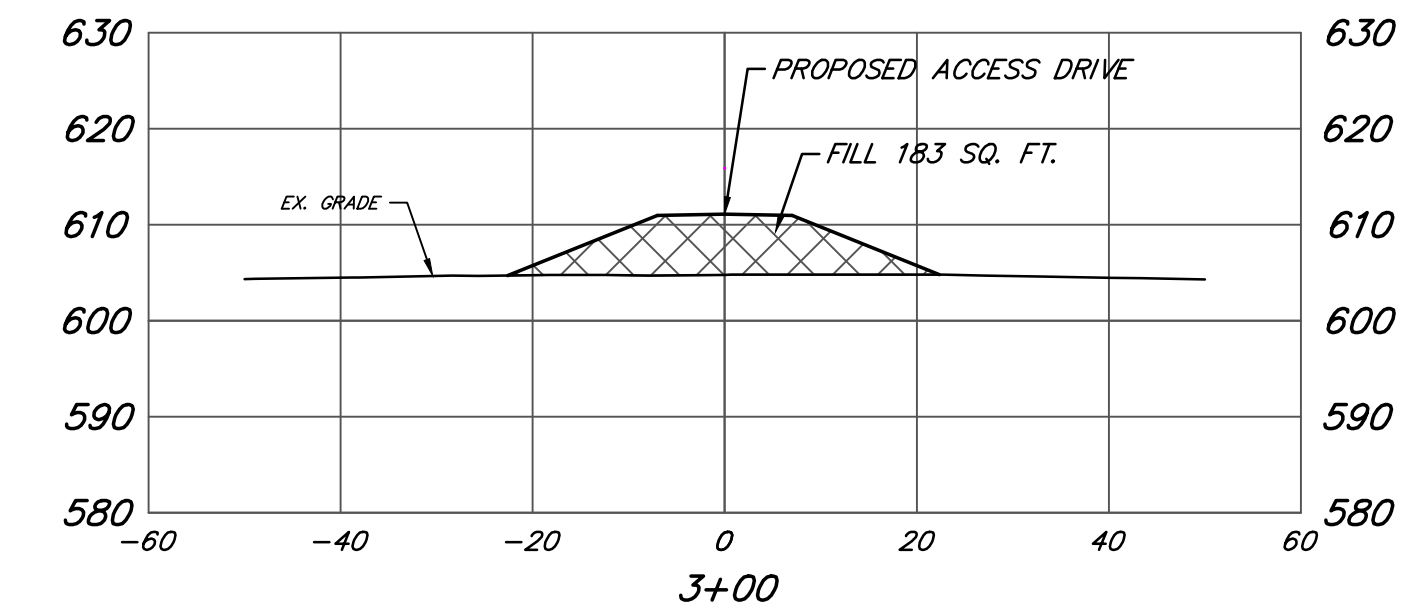
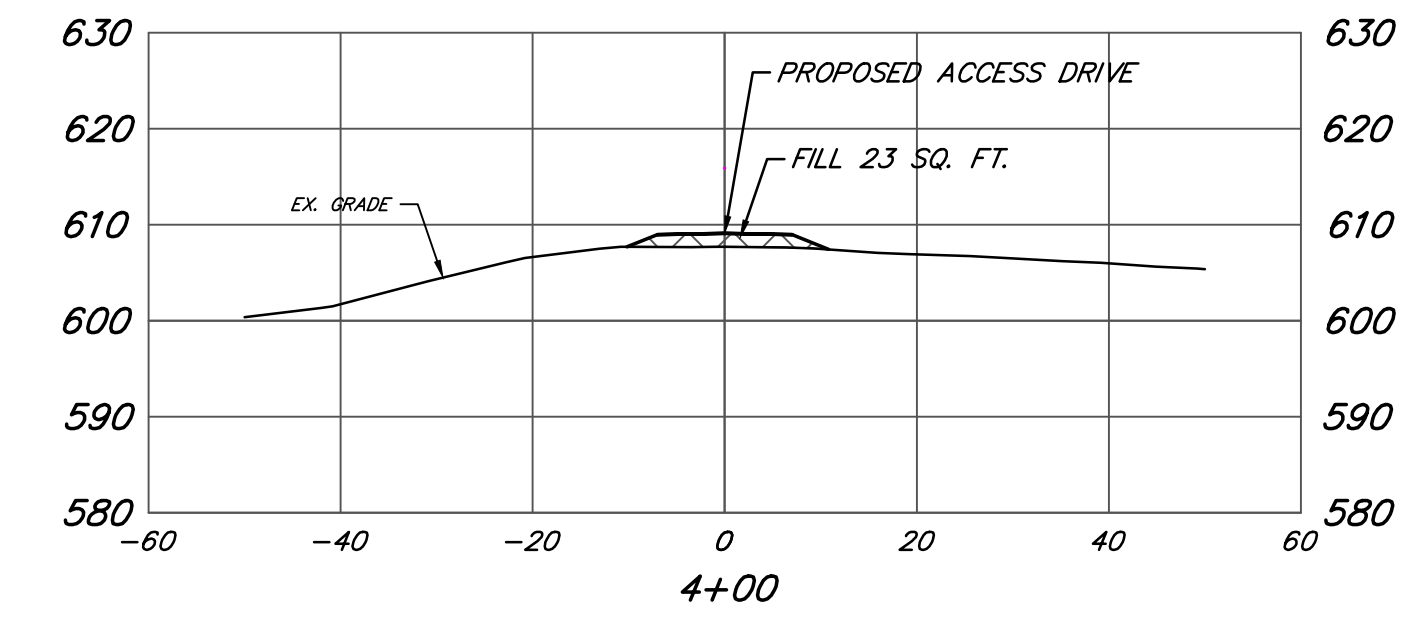
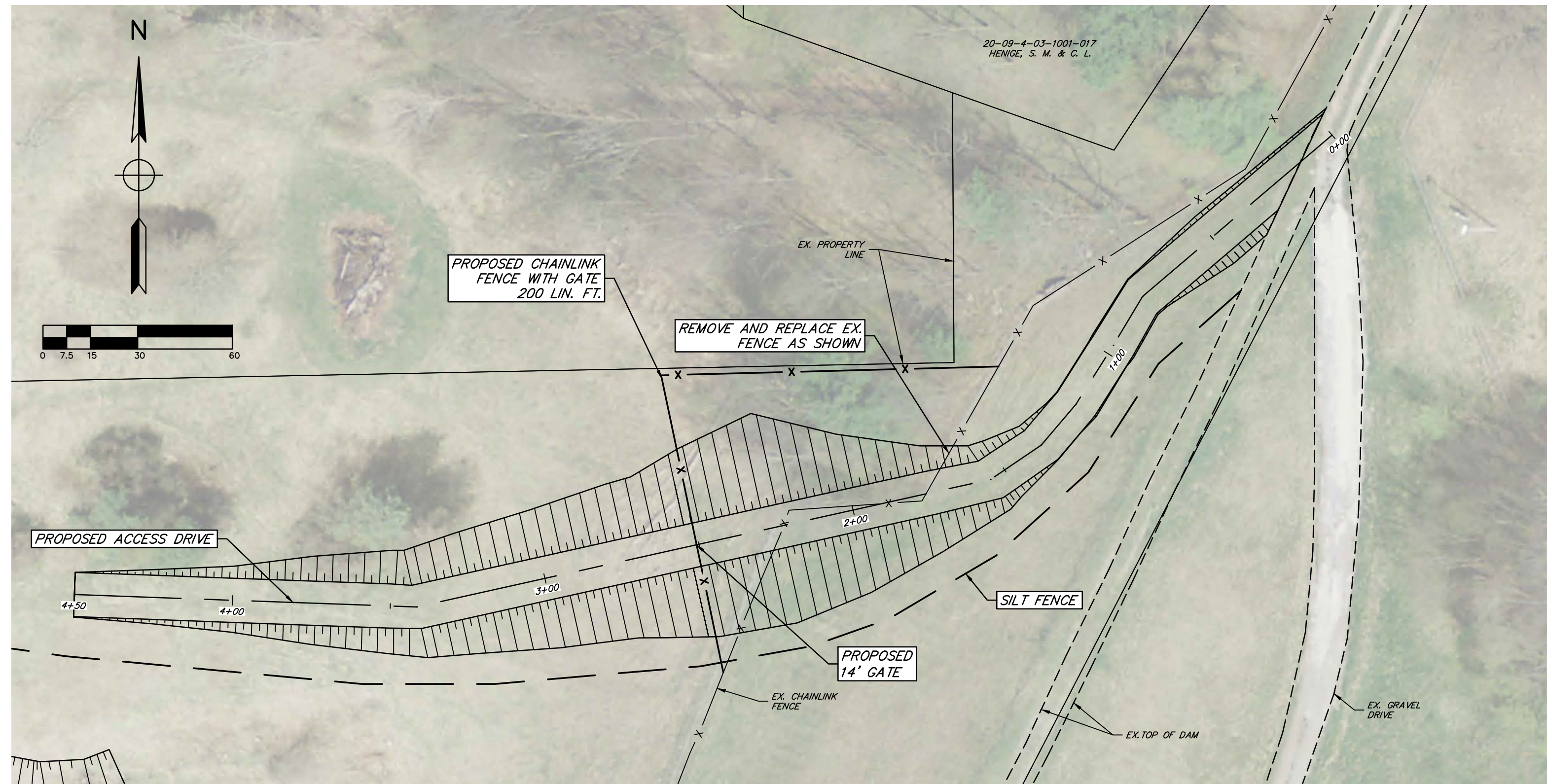


BY	MARK	REVISIONS	DATE
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<b>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW, MICHIGAN</b>			
<b>STRUCTURE NO. 4 DAM CROSS SECTIONS STA. 701+56 TO STA. 706+35</b>			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY: LDO	CH. BY: NDC	PROJECT NO.	
DR. BY: LDO	APP. BY: RBH	118598SG2010	
STDS.	SHEET 63 OF 64	DIV	
DATE SCALE	APRIL, 2019 1" = 30'	FILE NO.	DR-3420-63
			3

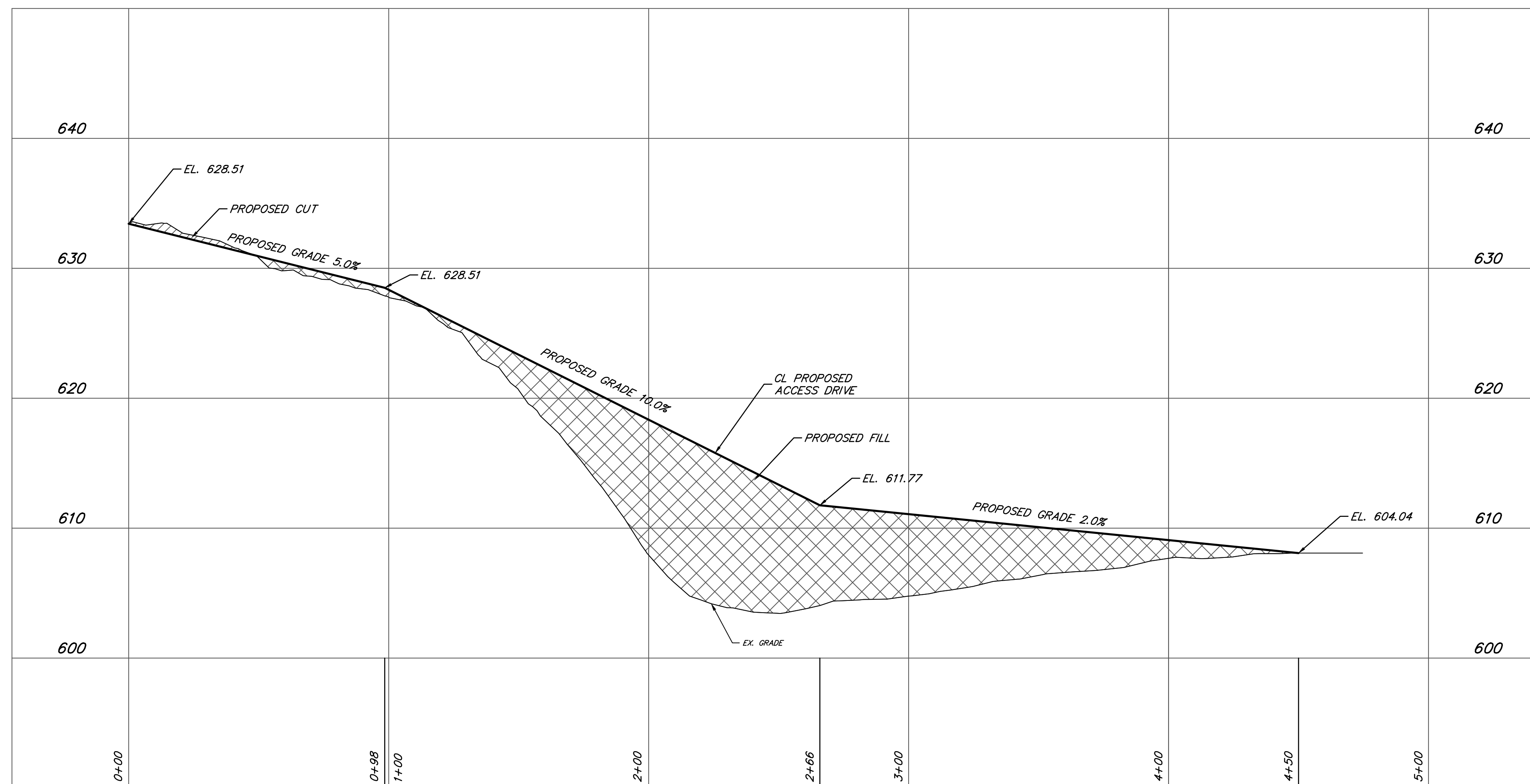
PLOTTING SCALE: RET. F.B. PG. ACAD FILE:

C:\p0210118598SG2010\Mistegway Creek Intercounty Drain\DR3420-63.dwg, DR: 2/26/19 12:47:57 PM, User: jennabrown, 4/26/2019 12:47:57 PM, Sheet: 63 of 64, 24.00 x 36.00 (inches), 1:1





**CROSS SECTIONS**  
SCALE: 1" = 20'



**ACCESS RAMP PROFILE**  
SCALE: H: 1" = 30' V: 1" = 5'

BY	MARK	REVISIONS	DATE
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<p>MISTEGUAY CREEK INTERCOUNTY DRAIN SAGINAW, MICHIGAN</p>			
<p><b>STRUCTURE NO. 4 DAM ACCESS RAMP DETAILS</b></p>			
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>	
DE. BY: LDO	CH. BY: NDC	PROJECT NO. 118598SG2010	
DR. BY: LDO	APP. BY: RBH	SHEET 64 OF 64	
STDS.	DATE: APRIL, 2019	FILE NO. DR-3420-64	DIV 3
SCALE: 1" = 30'			