

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	1
ILLINOIS CONTRACT NO. 78809				

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-5

PROPOSED HIGHWAY PLANS

FAP ROUTE 782 (IL. 1)
SECTION 113SLP-1

SLOPE STABILIZATION
GALLATIN COUNTY

C-99-083-20

TRAFFIC DATA

IL. 1 (FAP 782): MP 14.20 TO 14.70 2.5 MILES SE OF EQUALITY			
	2021	2024	2044
PV =	1,280	1,315	1,605
SU =	120	125	150
MU =	400	410	505
ADT =	1,800	1,850	2,260

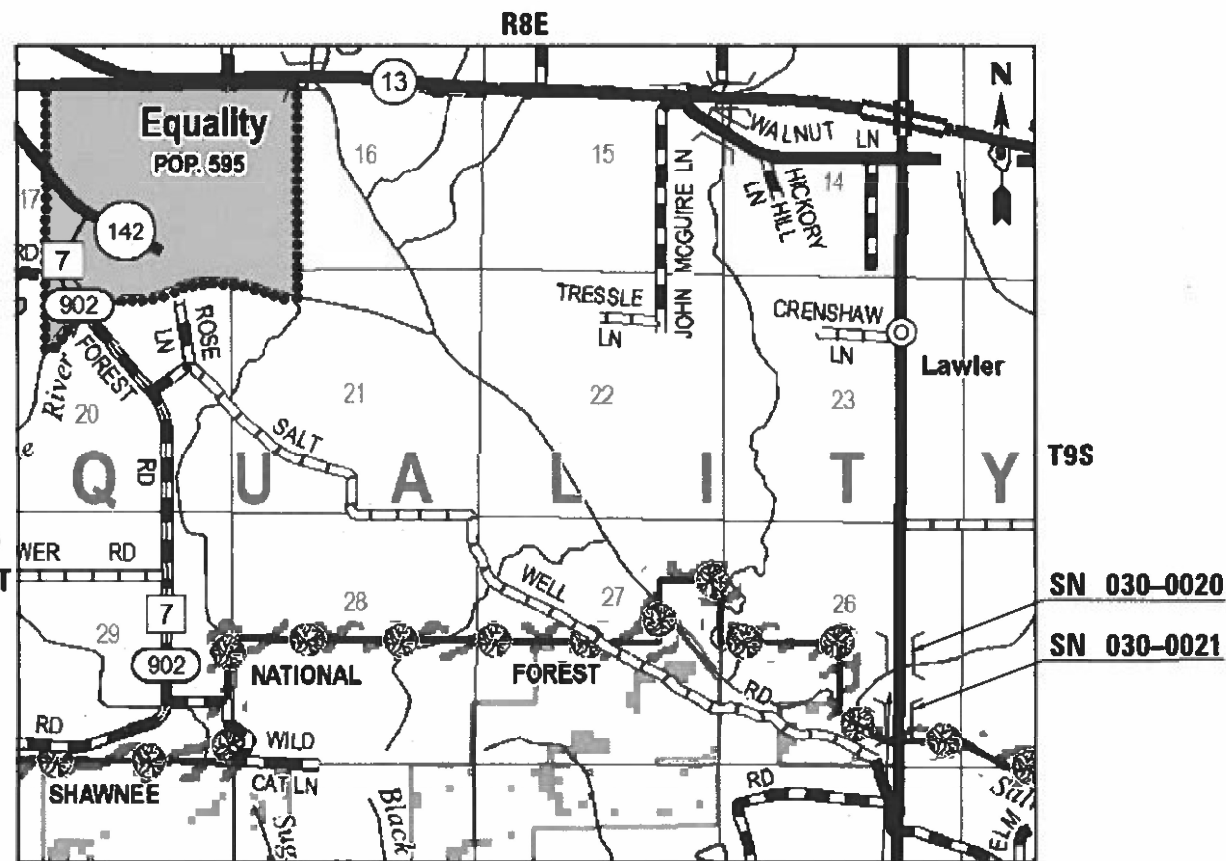
TOWNSHIPS EQUALITY

DESIGN DESIGNATION : NA
COORDINATE SYSTEM : NAD 1983 STATE PLANE ILLINOIS EAST
POSTED SPEED : 55 MPH

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: SUSAN POE
PROJECT DESIGNER: HUNTER ZEIGLER

CONTRACT NO. 78809



GROSS LENGTH = 475.2 FT. = 0.09 MILES
NET LENGTH = 475.2 FT. = 0.09 MILES

PROJECT BEGINS STA. 342 + 50
PROJECT ENDS STA. 344 + 92



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED May 17 2023
Kirk H. Brown
REGION FIVE ENGINEER

October 13, 2023
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

October 13, 2023
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL AGGREGATE 2.05 TONS/CU. YD.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 8% or 10%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

REMOVAL OF ABANDONED UTILITIES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION

COMMITMENTS: TREE REMOVAL WILL ONLY BE ALLOWED BETWEEN MARCH 1ST AND MARCH 31ST TO MINIMIZE ACCELERATION OF THE SLOPE FAILURE.

INDEX OF SHEETS

SHEET NO	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES, INDEX OF SHEETS, HIGHWAY STANDARDS, COMMITMENTS
4-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTIONS: IL 1
7	SCHEDULES
8	ALIGNMENT AND TIES
9	PLAN SHEET
10	TREE REMOVAL
11	EROSION CONTROL AND SEEDING
12	BORING LOCATIONS
13-16	BORING LOGS
17	PERMANENT SHEET PILE PROFILE AND GRADING DETAIL
18	DISTRICT STANDARDS
19-27	CROSS SECTIONS

HIGHWAY STANDARDS

- 000001-08_STANDARDSYMBOLSABBREVIATIONS-PATTERNS-001
- 001006_DECIMALOFINCH-FOOT
- 280001-07_TEMPEROSIONCNTRLSYSTEMS
- 630001-12_STEELPLATEBEAMGRDRAIL
- 701001-02_OFFRDOP-2L2W-15FTMINFROMEOP
- 701006-05_OFFRDOP-2L2W-15FTTOEOP
- 701011-04_OFFRDMOVINGOP-2L2W-DAYONLY
- 701201-05_LNCLOSURE2L2W-DAYONLY
- 701301-04_LNCLOSURE2L2W-SHORTTIMEOP
- 701316-13_LNCLOSURE2L2W-BRIDGEREPAIR45MPHORMORE
- 701901-08_TRAFCNTRLDEVICES
- 782006-01_GUARDRAILANDBARRIERWALLREFLECTORMOUNTINGDEATILS

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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -			782	113SLP-1	GALLATIN	27	3	
PLOT DATE = 5/25/2023	CHECKED -	REVISED -			CONTRACT NO. 78809					
	DATE -	REVISED -			SCALE:	SHEET 3	OF 27	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES

COUNTY:	GALLATIN
ROUTE:	IL. 1
FUNDING:	100% STATE
LOCATION:	RURAL
	ROADWAY
	0006

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	
20100500	TREE REMOVAL, ACRES	ACRE	0.25	0.25
20200100	EARTH EXCAVATION	CU YD	530	530
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25
25000350	SEEDING, CLASS 7	ACRE	0.25	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.6	0.6
25100115	MULCH, METHOD 2	ACRE	0.25	0.25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	75	75
28000400	PERIMETER EROSION BARRIER	FOOT	244	244
48100100	AGGREGATE SHOULDERS, TYPE A	TON	59	59
52200015	PERMANENT SHEET PILING	SQ FT	8,382	8,382
* 63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	238	238

* SPECIALTY ITEM

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PLOT DATE = 5/2/2023	DATE -	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NO SCALE SHEET 4 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	4
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES - CONT

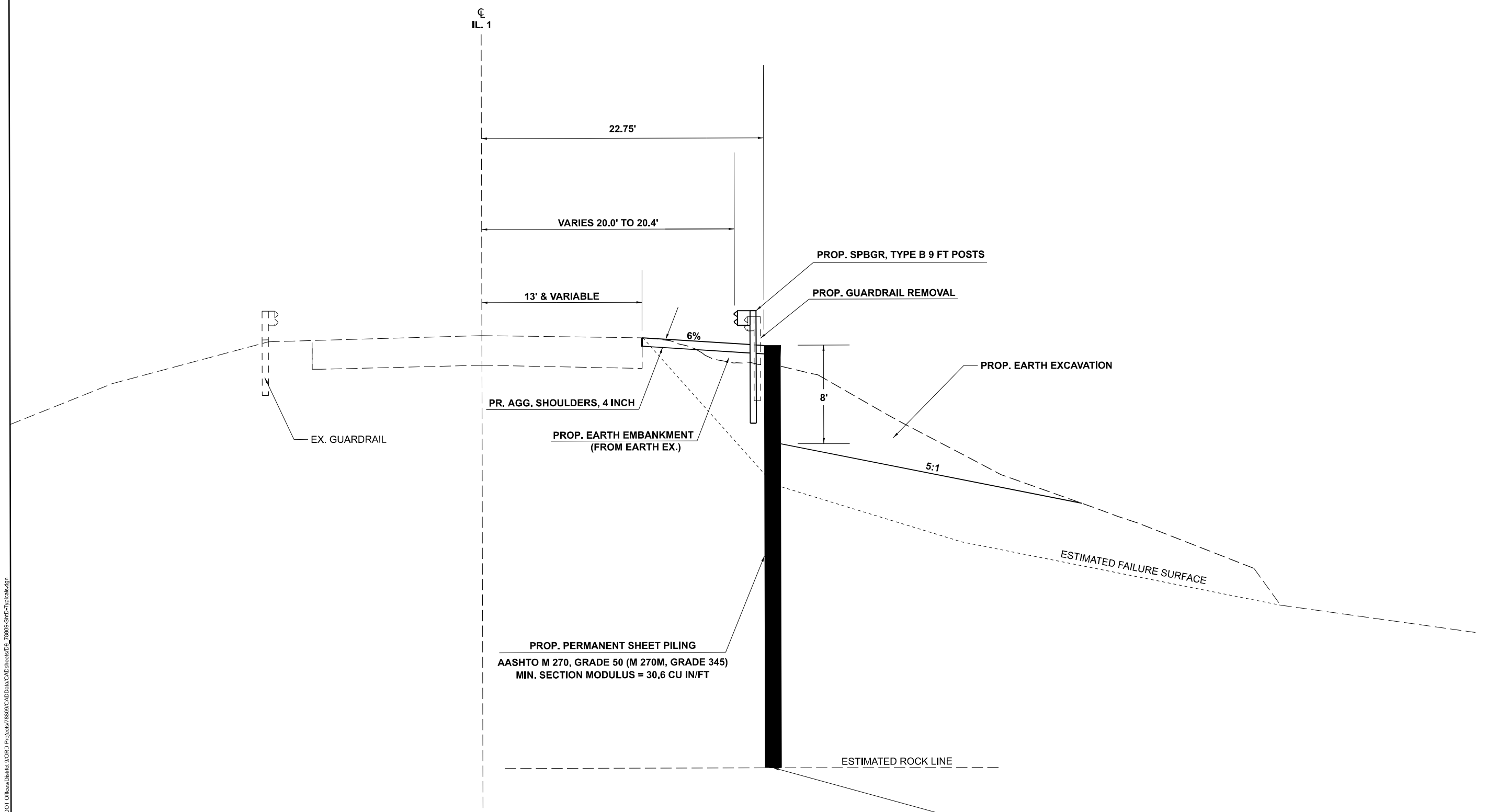
COUNTY:	GALLATIN
ROUTE:	IL. 1
FUNDING:	100% STATE
LOCATION:	RURAL
TOTAL QUANTITY	ROADWAY 0006

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0006
63200310	GUARDRAIL REMOVAL	FOOT	238	238
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67100100	MOBILIZATION	L SUM	1	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	5	5

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																					
782	113SLP-1	GALLATIN	27	5																					
CONTRACT NO. 78809																									
ILLINOIS FED. AID PROJECT																									

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TYPICAL SECTION

STA. 342+60 TO STA. 344+80

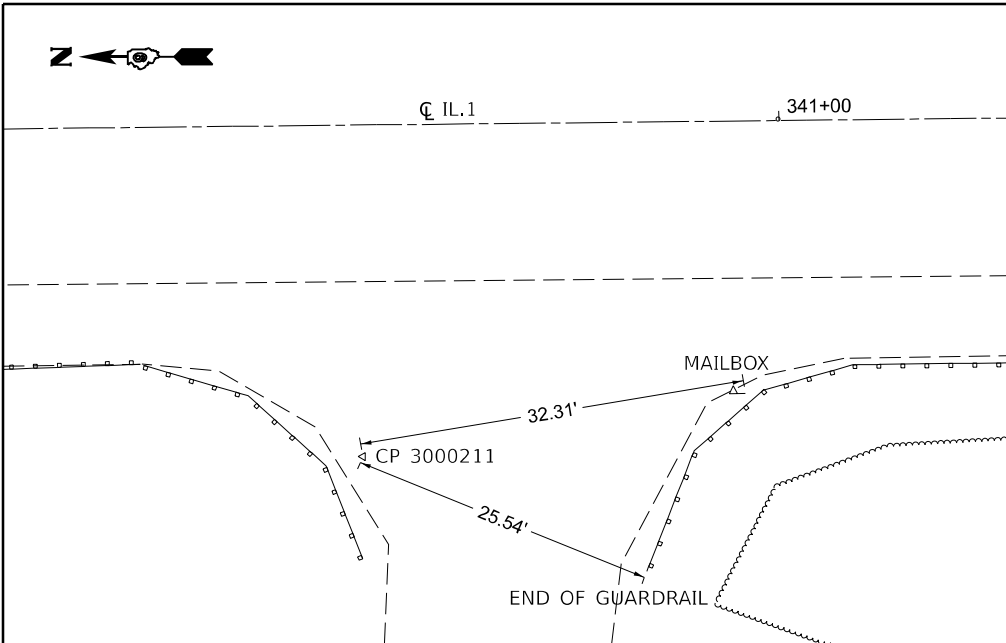
SEE PERMANENT SHEET PILE PROFILE DETAIL (SHEET 17)
 MINIMUM TIP ELEVATION VARIES

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DRAWN -	REVISED -	REVISED -
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PLOT DATE = 5/2/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTION			
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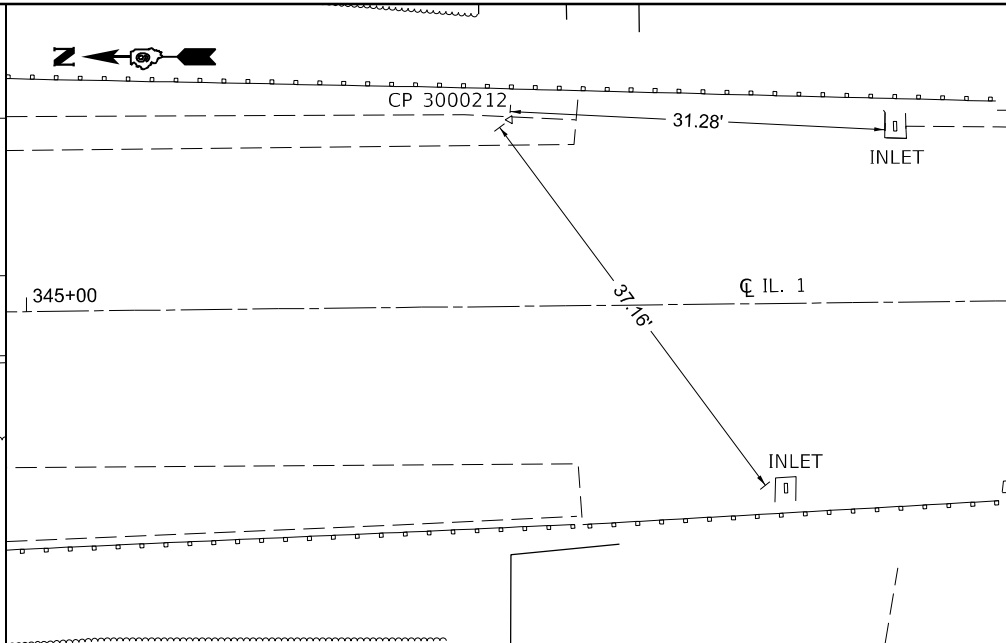
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782	113SLP-1	GALLATIN	27	6
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				



CONTROL POINT #3000211

STATION 340+65.02 , OFFSET 27.62' RT

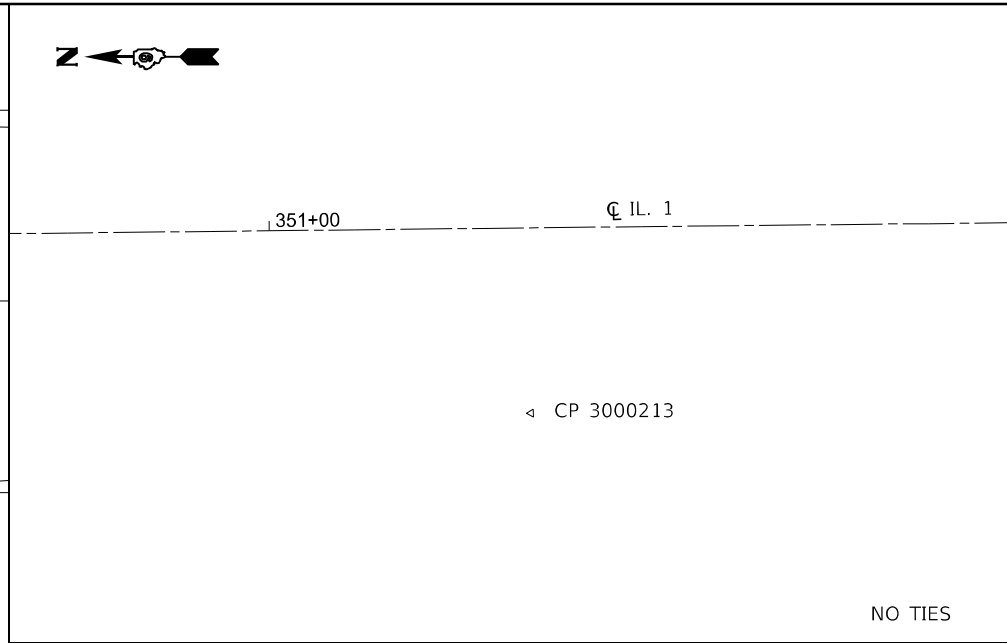
NORTHING: 378400.623
EASTING: 997896.599
ELEVATION: 380.235'



CONTROL POINT #3000212

STATION 345+40.43 , OFFSET 15.56' LT

NORTHING: 377924.912
EASTING: 997936.315
ELEVATION: 382.675'

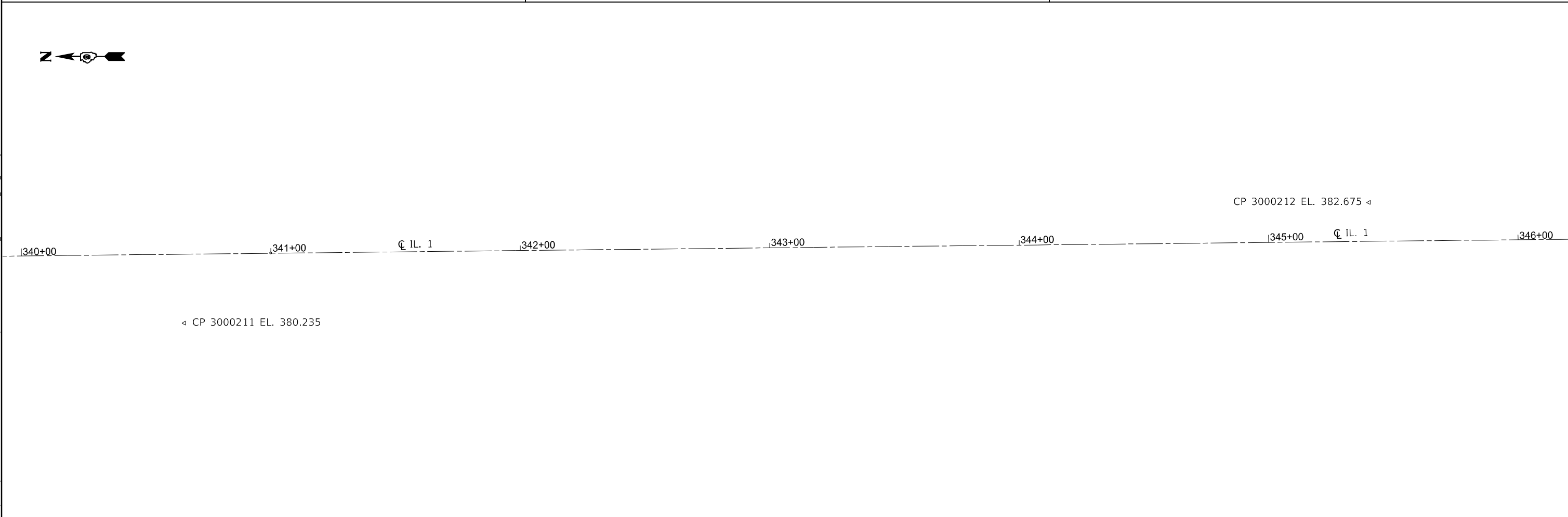


CONTROL POINT #3000213

STATION 351+21.65 , OFFSET 15.44' RT

NORTHING: 377343.925
EASTING: 997901.096
ELEVATION: 383.795'

NO TIES



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 USER: Hunter.Zeigler
 DATE: 4/18/2023

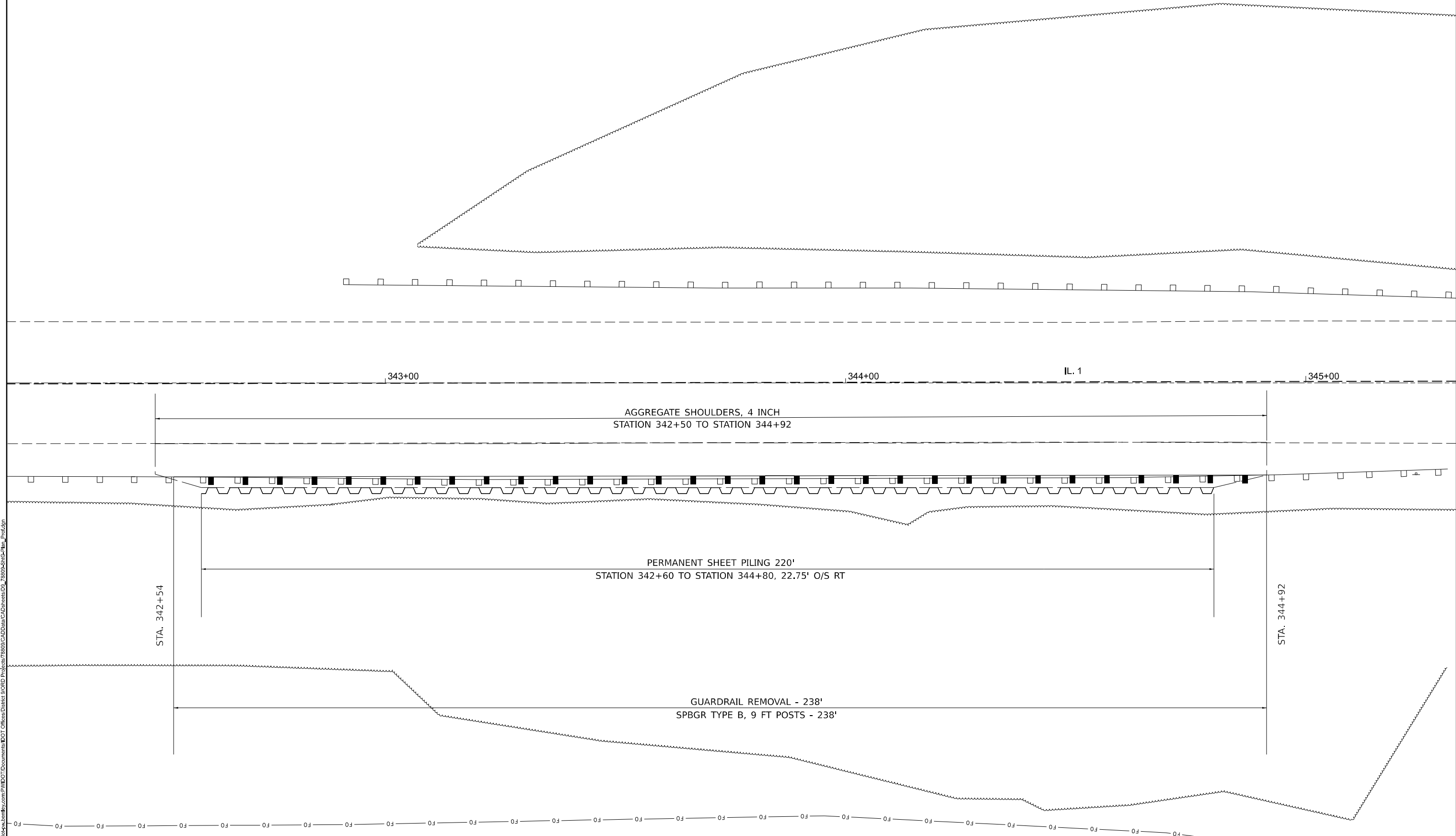
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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 4/18/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALIGNMENT & TIES

SCALE: NO SCALE SHEET 8 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	8
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				



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SCALE: 1"=10'						SHEET 9	OF 27 SHEETS		STA.	TO STA.			ILLINOIS FED. AID PROJECT CONTRACT NO. 78809								

LEGEND

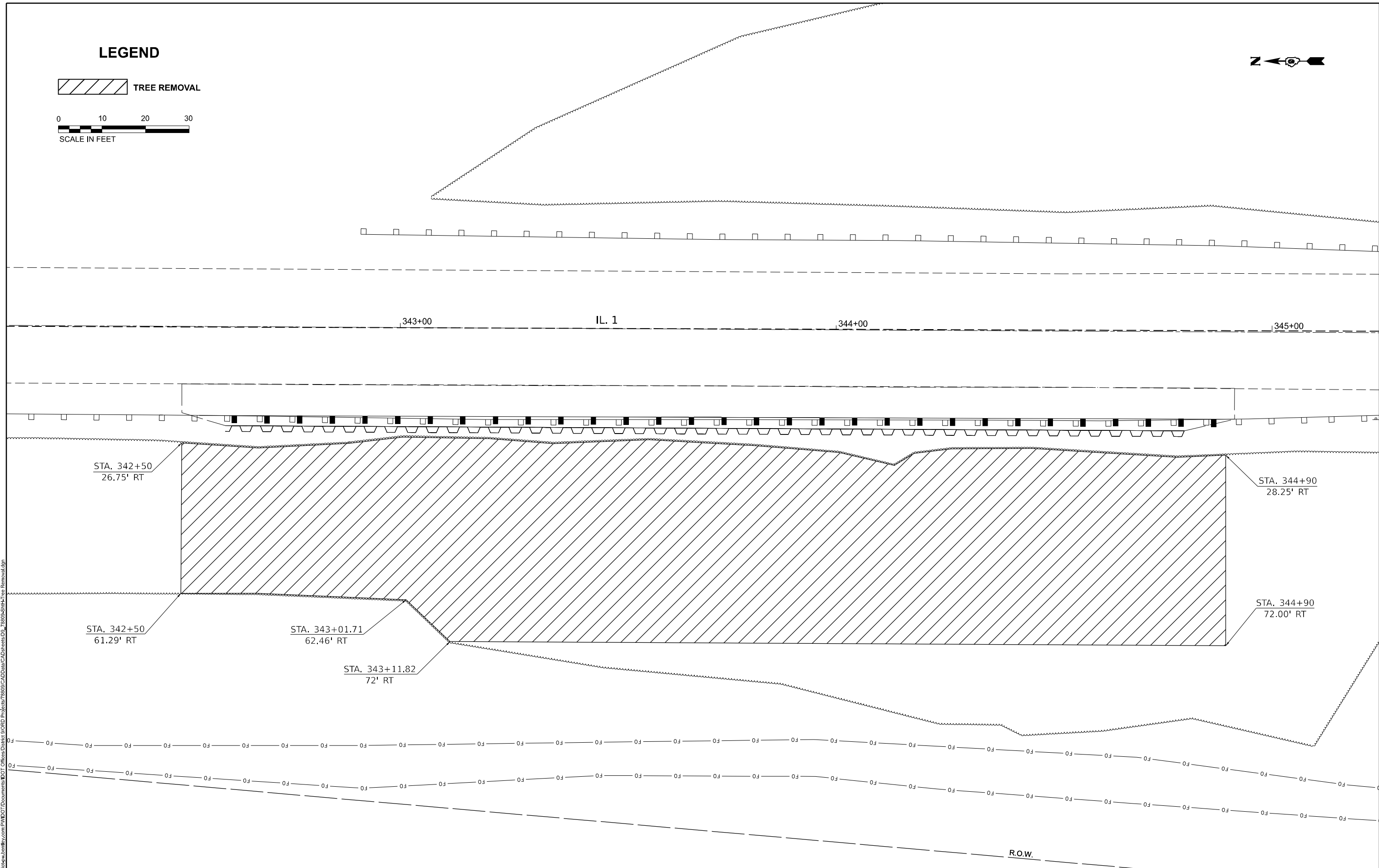


TREE REMOVAL

0 10 20 30



SCALE IN FEET



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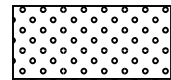
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DRAWN -	REVISED -	
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -
PLOT DATE = 4/26/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TREE REMOVAL
 SCALE: 1" = 10' SHEET 10 OF 27 SHEETS STA. TO STA.

F.A.P. RTE. 782	SECTION 113SLP-1	COUNTY GALLATIN	TOTAL SHEETS 27	SHEET NO. 10
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				

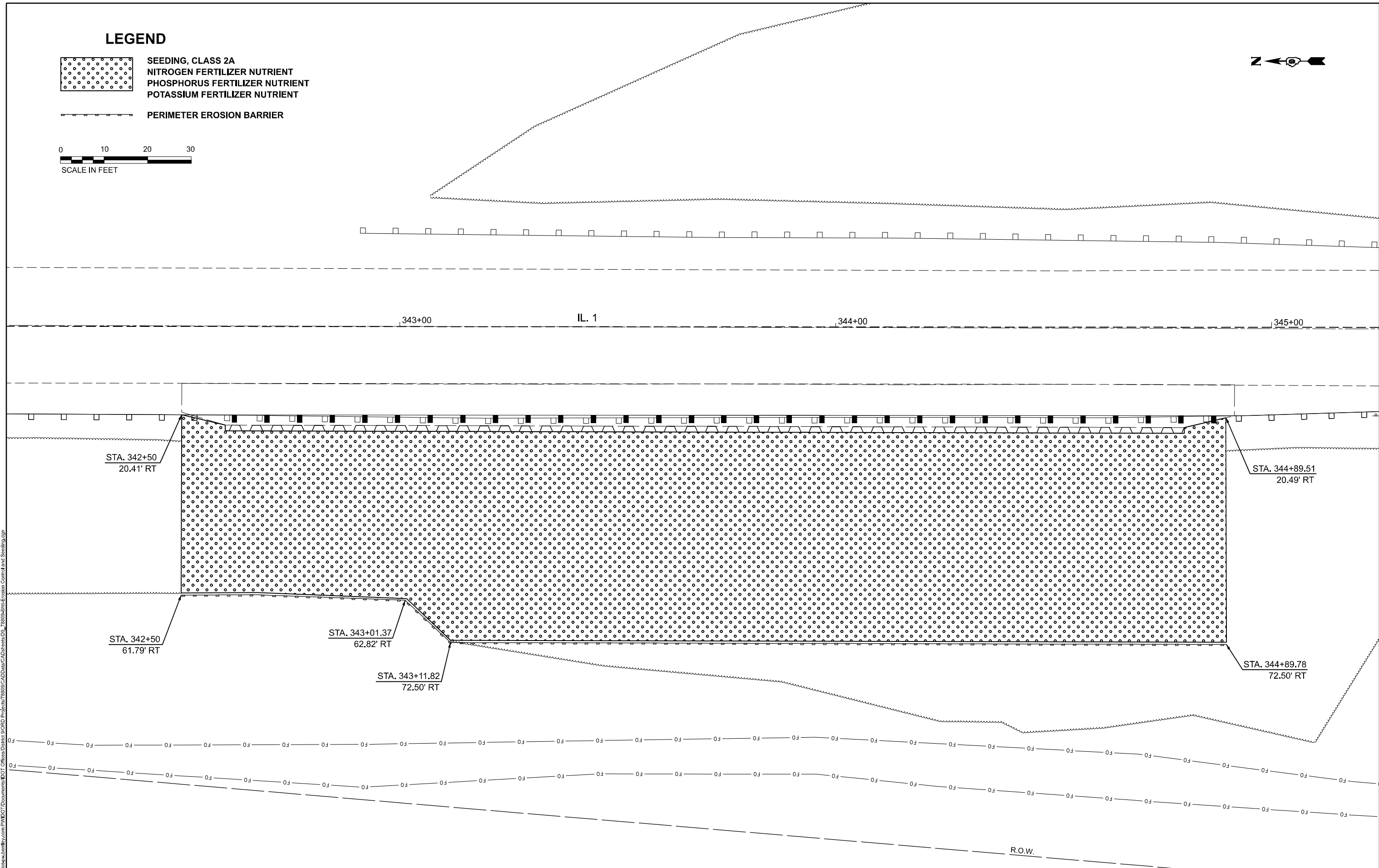
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SEEDING, CLASS 2A
 NITROGEN FERTILIZER NUTRIENT
 PHOSPHORUS FERTILIZER NUTRIENT
 POTASSIUM FERTILIZER NUTRIENT



PERIMETER EROSION BARRIER



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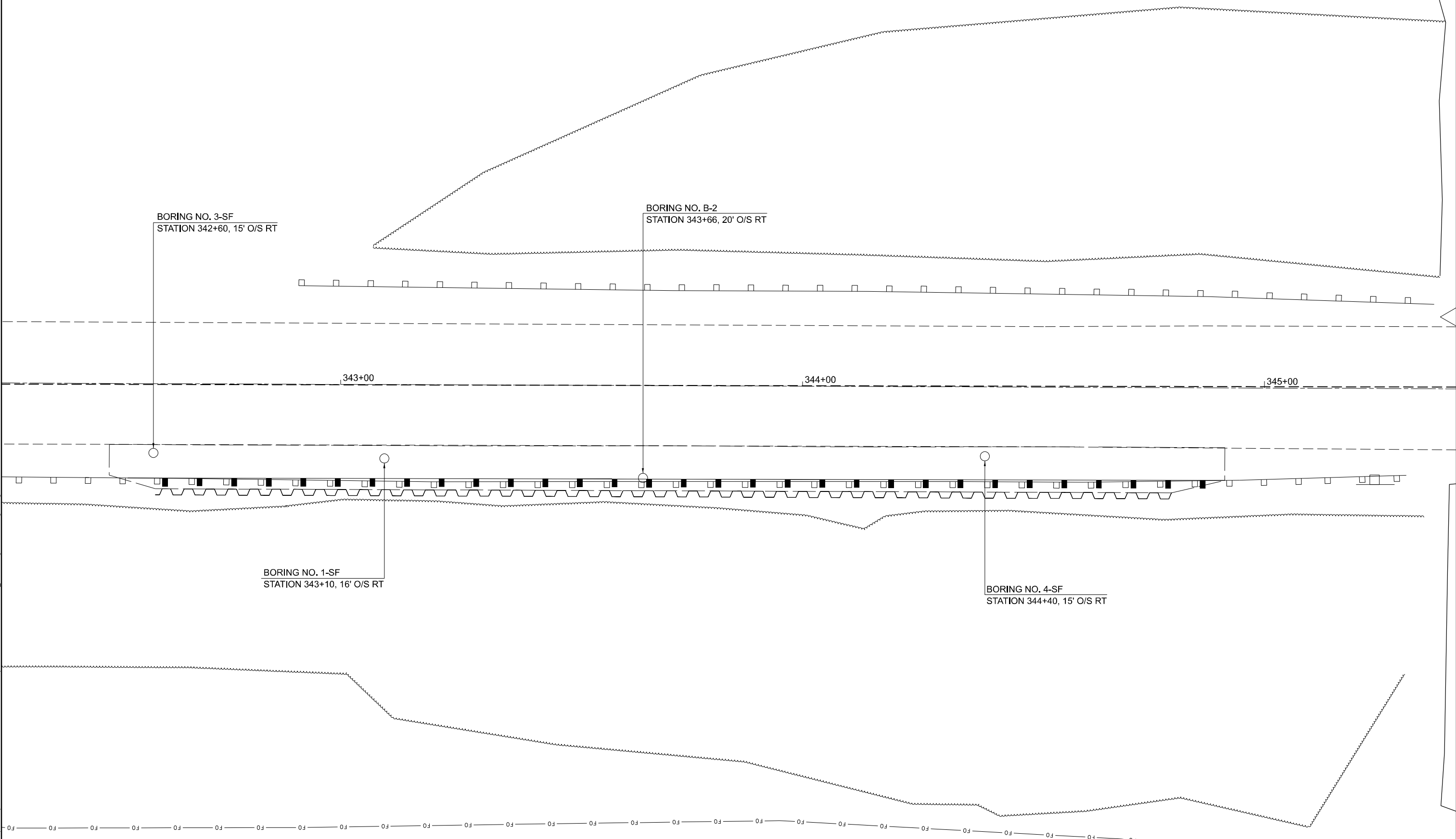
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PLOT DATE = 4/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL AND SEEDING

SCALE: 1" = 10' SHEET 11 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	11
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				



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PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 4/26/2023	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BORING LOCATIONS			
SCALE: 1"=10'	SHEET 12	OF 27 SHEETS	STA. TO STA.

F.A.P. RTE. 782	SECTION 113SLP-1	COUNTY GALLATIN	TOTAL SHEETS 27	SHEET NO. 12
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				



SOIL BORING LOG

ROUTE IL 1 DESCRIPTION Slope Failure - North Bridge approach over Saline River LOGGED BY L. Estel

SECTION 113SLP-1 LOCATION 2.5 mi. S of IL 13, SEC. 26, TWP. 9S, RNG. 8E, 3 PM

COUNTY Gallatin DRILLING METHOD Hollow stem auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lb

STRUCT. NO. Station	DEPTH H	BLOW S	UCS Qu	MOIST T	Surface Water Elev. Stream Bed Elev.	DEPTH H	BLOW S	UCS Qu	MOIST T
	(ft)	(tsf)	(%)		(ft)	(tsf)	(%)		
030-0021 348+30						4 5	4.1 B	19	
BORING NO. 4-SF Station 344+40 Offset 15.0ft Right					Groundwater Elev.: ▽ First Encounter 332.3 ft ▽ Upon Completion ▽ After _____ Hrs.				
377.80		2			Hard Brown and Grey and mottled Reddish Brown, Moist CLAY (continued)				
		3	1.8	20					
		3	B			2			
					360.30				
					Stiff Brown and Grey, Moist CLAY				
						3	1.6	22	
						4	B		
					377.80				
					V. Stiff Grey and Brown, Moist CLAY				
		1				1			
		2	1.4	23		3	3.5	22	
		2	B			3	B		
					375.30				
					V. Stiff Grey and mottled Brown, Moist CLAY				
		1				3			
		2	1.4	17		5	3.1	23	
		3	B			6	B		
					372.80				
					V. Stiff Brownish Grey, Moist CLAY				
		1				3			
		3	2.4	21		4	2.2	29	
		3	B			6	B		
					370.30				
					V. Stiff Brownish Grey with specks of Black, Moist CLAY				
		1				3			
		2	0.4	30		5	3.1	19	
		2	B			8	B		
					367.80				
					V. Stiff Brown and Grey with specks of Black, Moist CLAY				
		1				2			
		4	3.5	19		7	2.0	23	
		5	B			8	B		
					365.30				
					V. Stiff Brown and Grey with specks of Black and Red, Moist CLAY				
		2				1			
		4	2.6	23		2	1.9	33	
		5	B			4	S		
					362.80				
					Stiff Grey, Moist CLAY				
		1				3			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

ROUTE IL 1 DESCRIPTION Slope Failure - North Bridge approach over Saline River LOGGED BY L. Estel

SECTION 113SLP-1 LOCATION 2.5 mi. S of IL 13, SEC. 26, TWP. 9S, RNG. 8E, 3 PM

COUNTY Gallatin DRILLING METHOD Hollow stem auger (8" O.D., 3.25" I.D.) HAMMER TYPE Auto SPT 140 lb

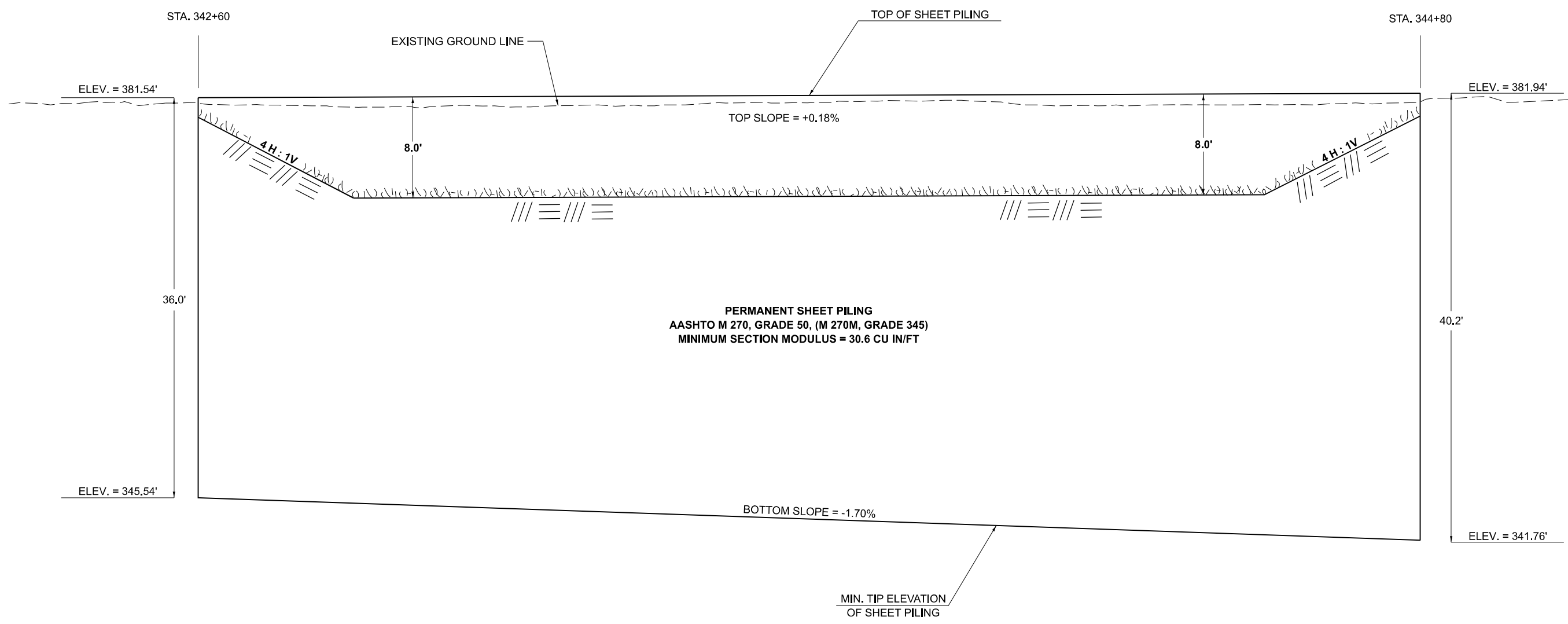
STRUCT. NO. Station	DEPTH H	BLOW S	UCS Qu	MOIST T	Surface Water Elev. Stream Bed Elev.	DEPTH H	BLOW S	UCS Qu	MOIST T
	(ft)	(tsf)	(%)		(ft)	(tsf)	(%)		
030-0021 348+30		5 10	1.9 S	27					
BORING NO. 4-SF Station 344+40 Offset 15.0ft Right					Groundwater Elev.: ▽ First Encounter 332.3 ft ▽ Upon Completion ▽ After _____ Hrs.				
338.30					Stiff Brown and Grey, Moist CLAY with Organics (continued)				
					338.30				
					Stiff Grey and Brown, Moist CLAY				
		1							
		6	1.6	15					
		10	S						
					336.80				
					Hard Grey and Brown, Dry weathered CLAY SHALE				
		1							
		27		11					
		30							
					331.80				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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PERMANENT SHEET PILING PROFILE AND GRADING DETAIL



MODEL: Sheet Piling Profile (Sheet)
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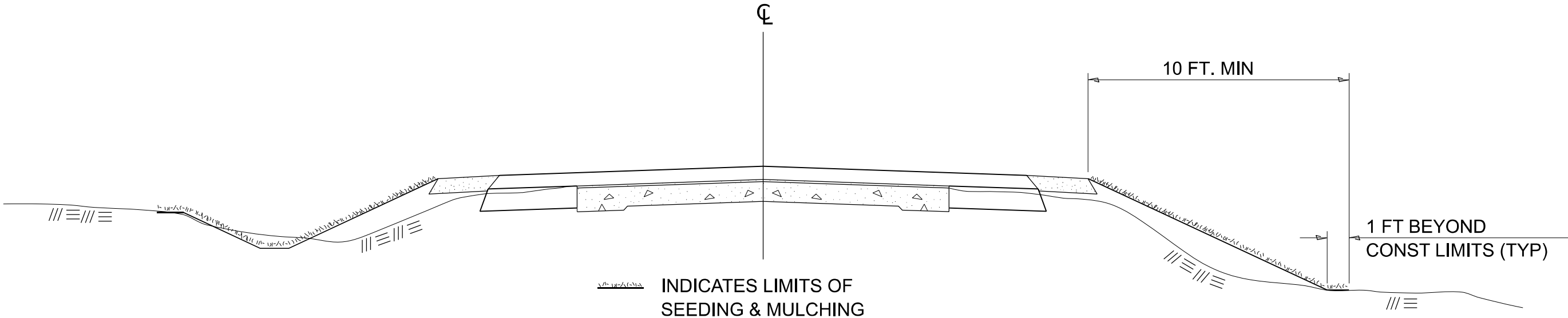
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	DRAWN -	REVISED -	
PLOT SCALE = 0.16666833' / in.	CHECKED -	REVISED -	
PLOT DATE = 4/18/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PERMANENT SHEET PILING & GRADING DETAIL
 SCALE: NO SCALE SHEET 17 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	17
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

ON DETOUR ROADS, SLOPES SHALL BE SEEDED IMMEDIATELY UPON COMPLETION OF ANY GIVEN STAGE GRADING. TEMPORARY SEEDING SHALL BE CLASS 7.

FERTILIZER NUTRIENTS SHALL BE APPLIED TO ALL SEEDED AREAS.
LIMESTONE SHALL BE APPLIED TO ALL AREAS OF FINAL SEEDING.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS FOR ROAD AND BRIDGE CONSTRUCTION.

SECTIONS 250 AND 251 SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

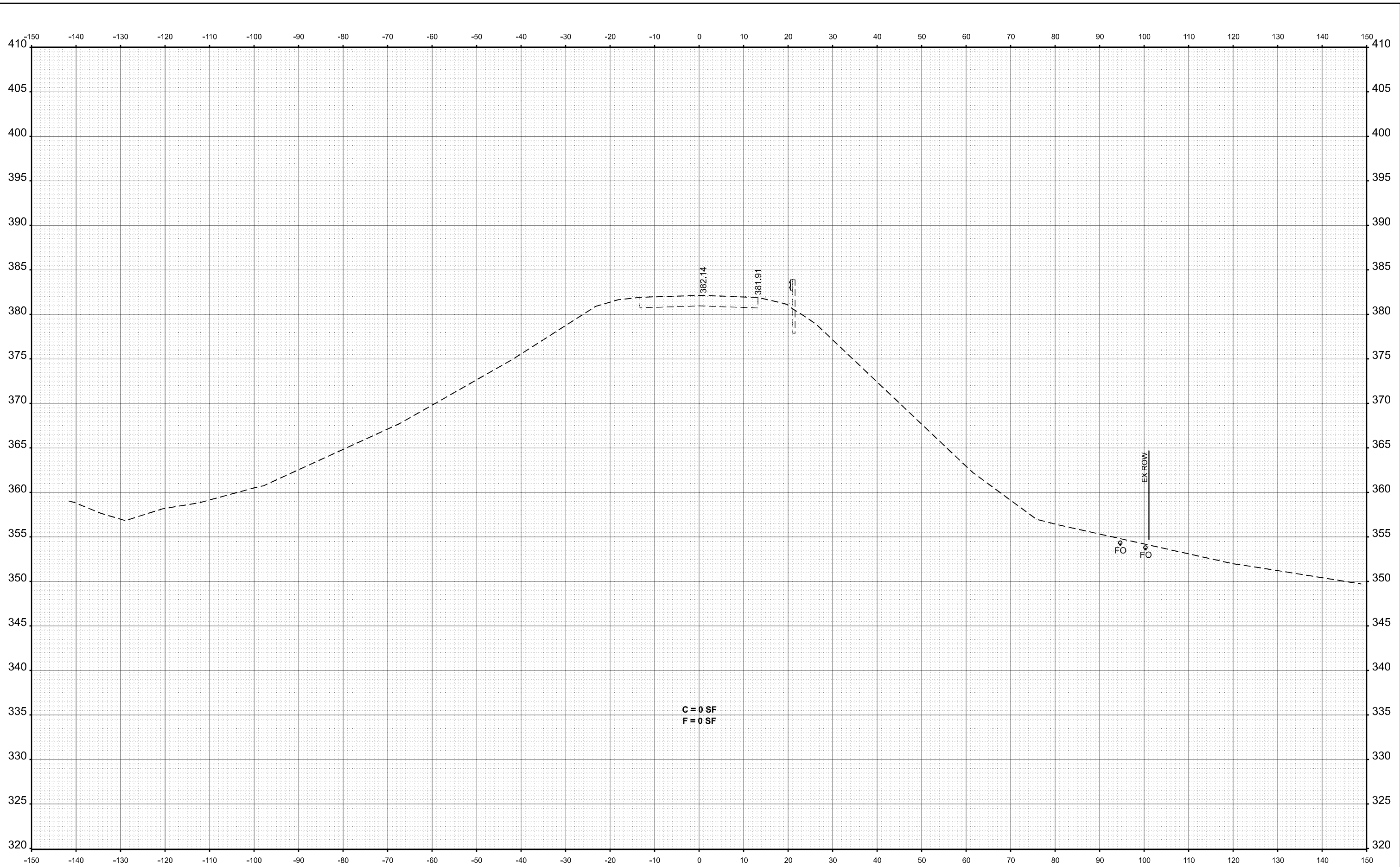
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STD. 9-19

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STA 342+00.00

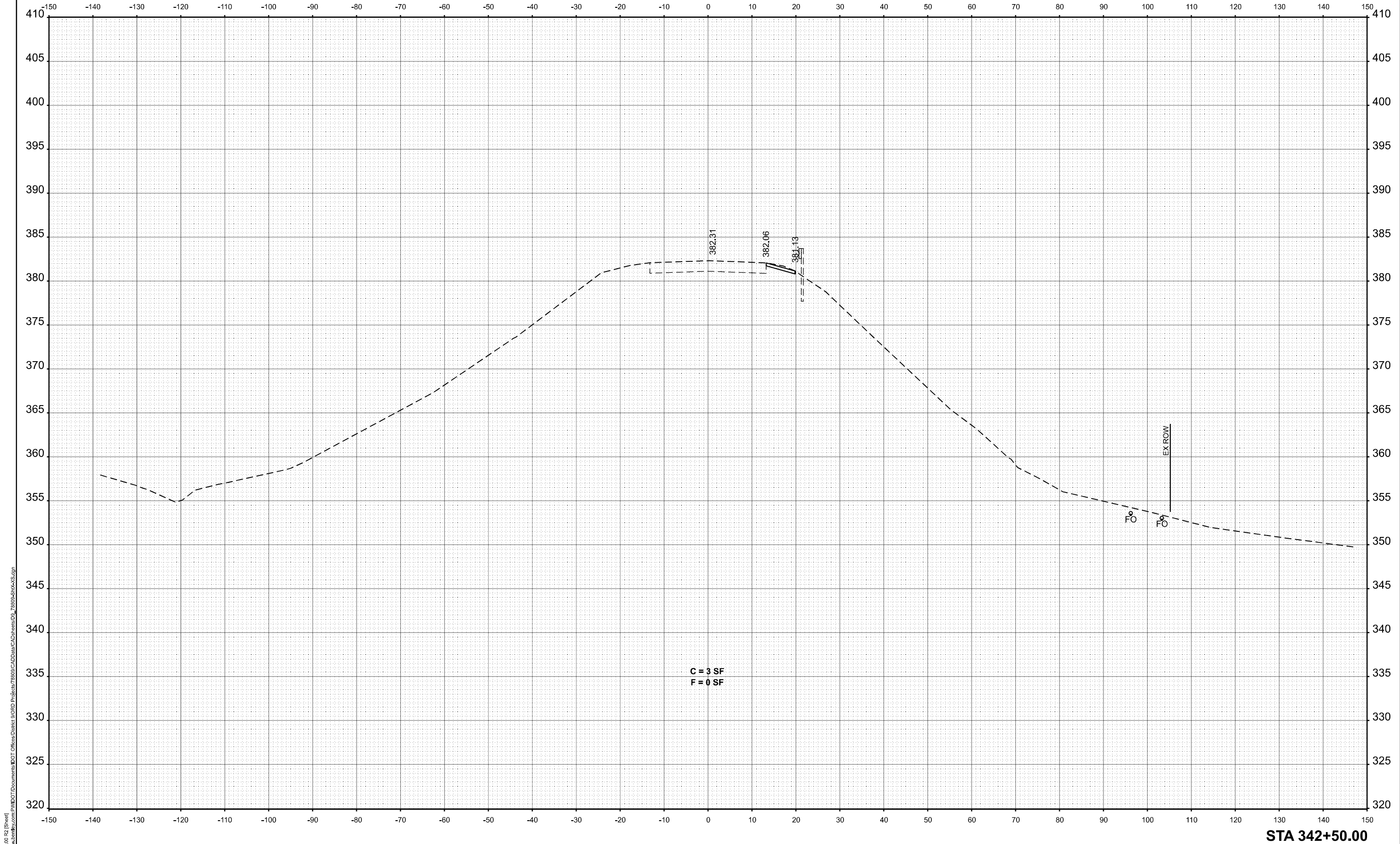
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 19 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	19
CONTRACT NO. 78809			ILLINOIS FED. AID PROJECT	



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PLOT DATE = 5/18/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

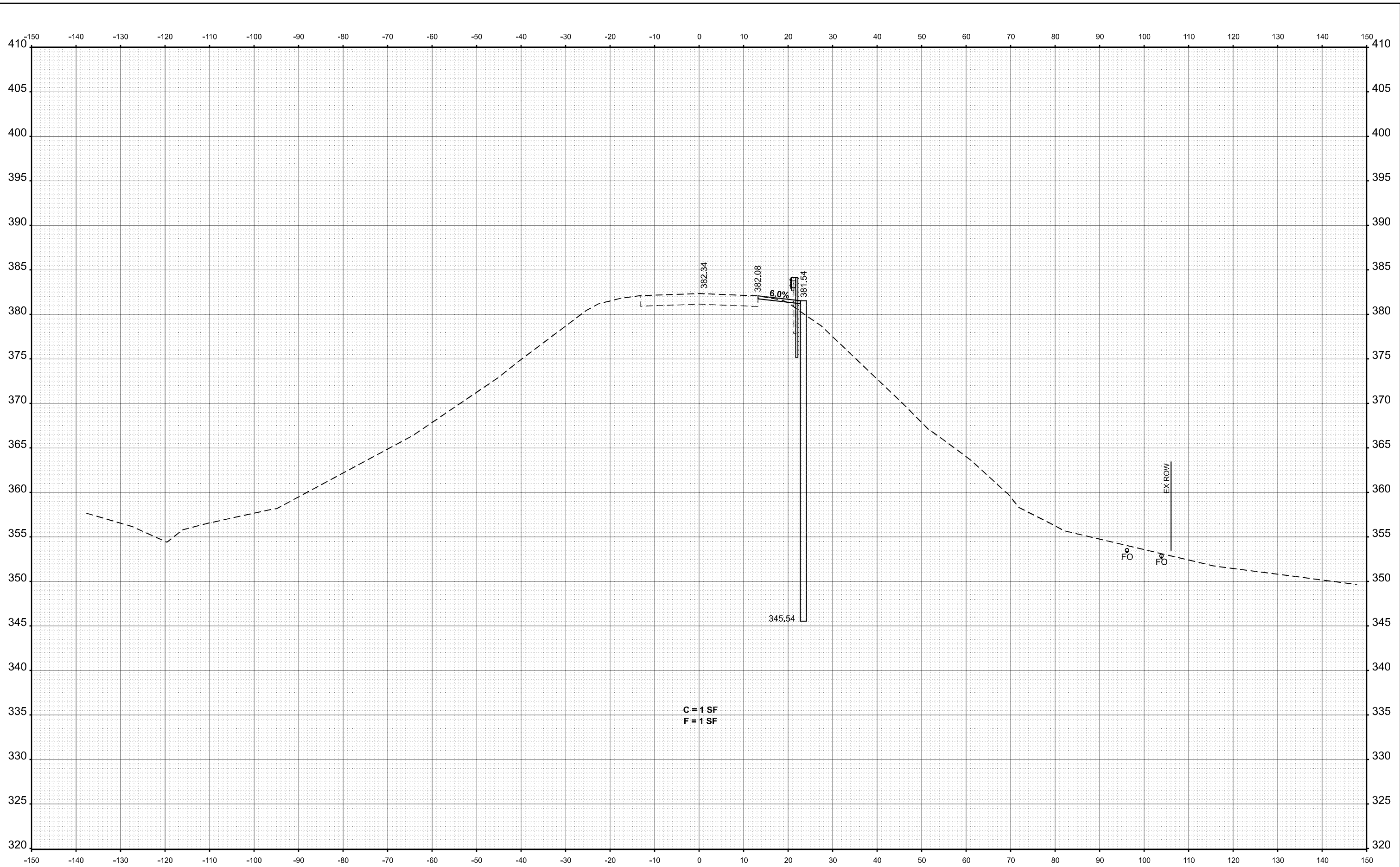
IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 20 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	20
CONTRACT NO. 78809			ILLINOIS FED. AID PROJECT	

STA 342+50.00

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C = 1 SF
F = 1 SF

STA 342+60.00

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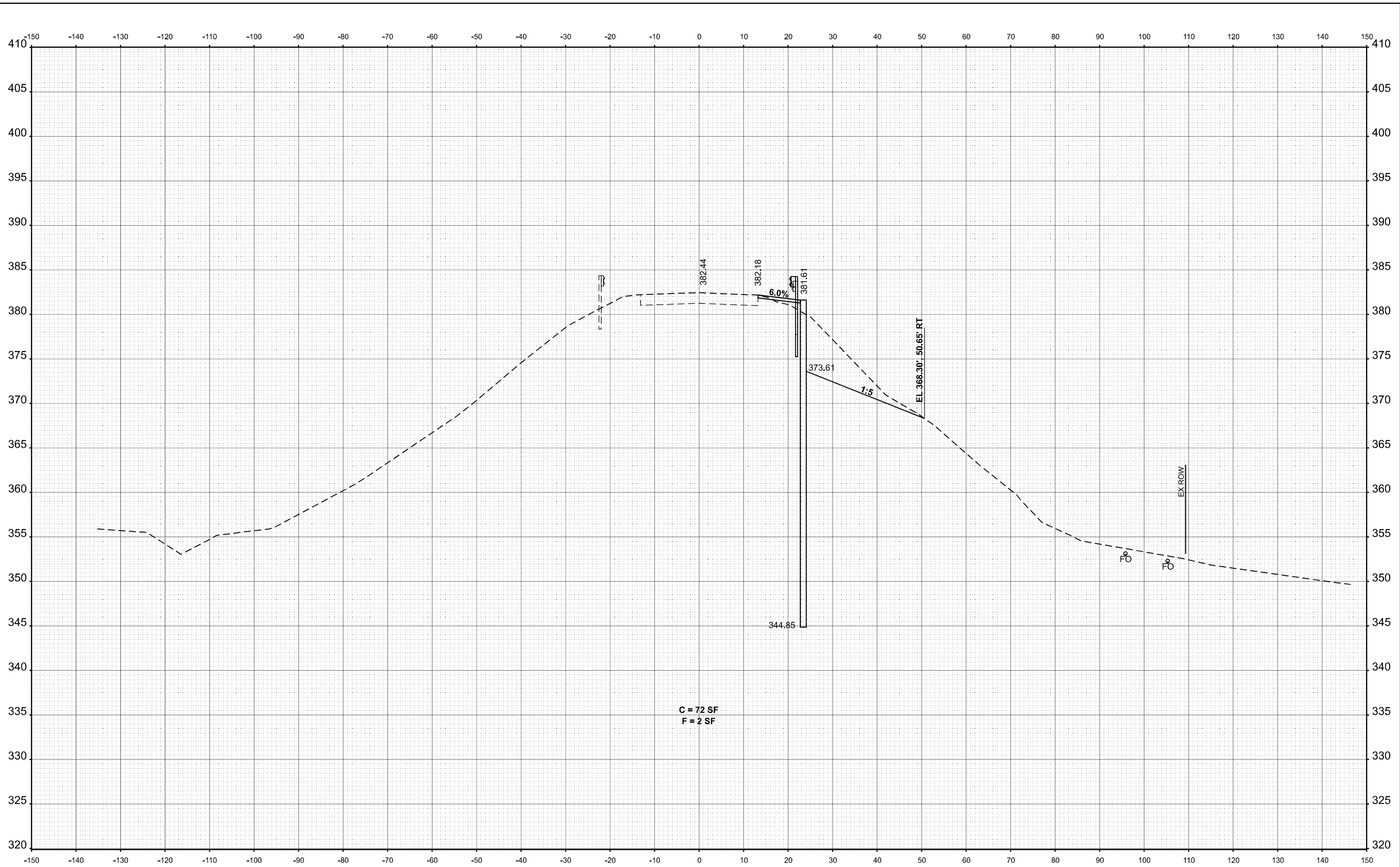
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 21 OF 27 SHEETS STA. TO STA.

F.A.P. RTE. 782	SECTION 113SLP-1	COUNTY GALLATIN	TOTAL SHEETS 27	SHEET NO. 21
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				

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STA 343+00.00

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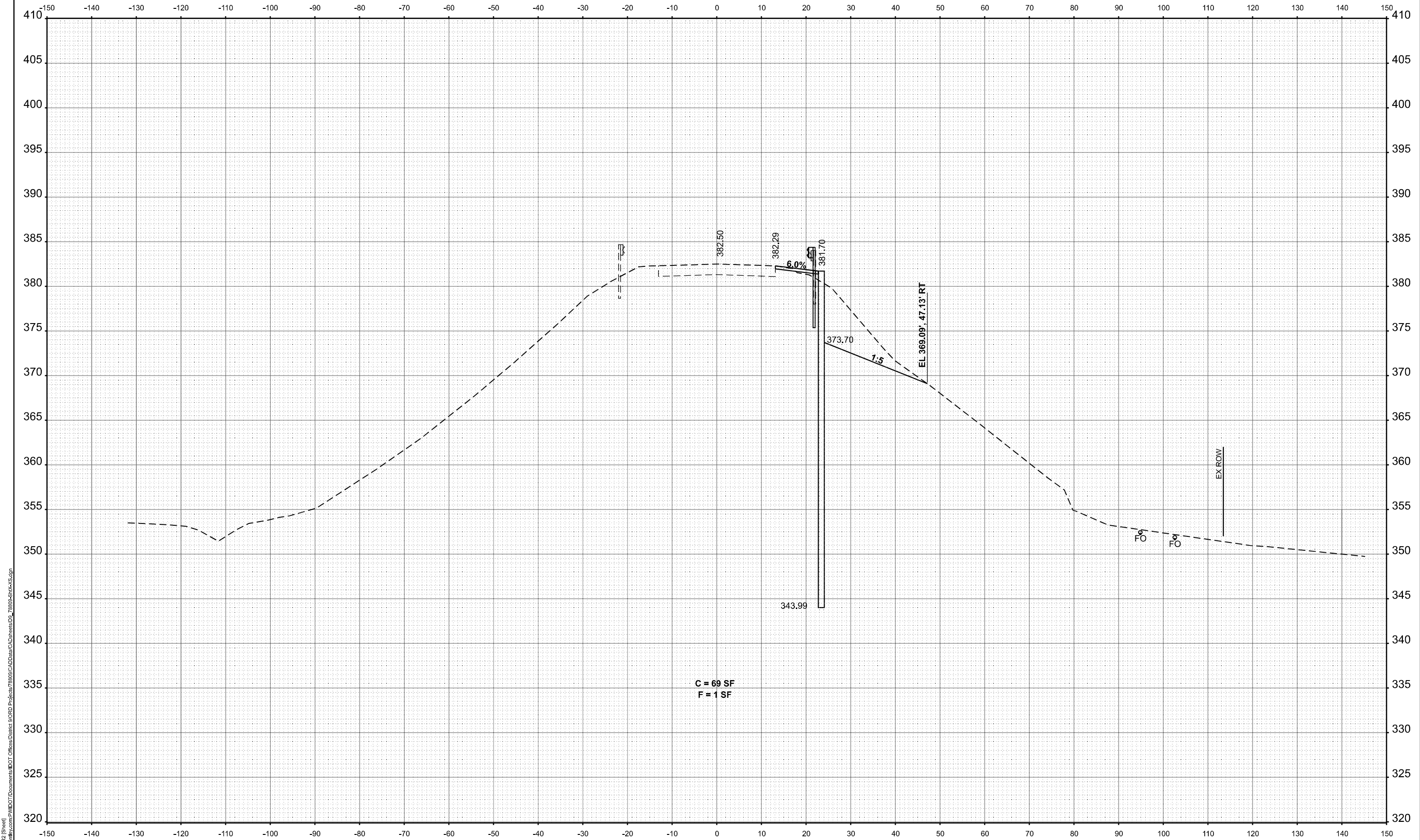
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 22 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	22
CONTRACT NO. 78809				

ILLINOIS FED. AID PROJECT



STA 343+50.00

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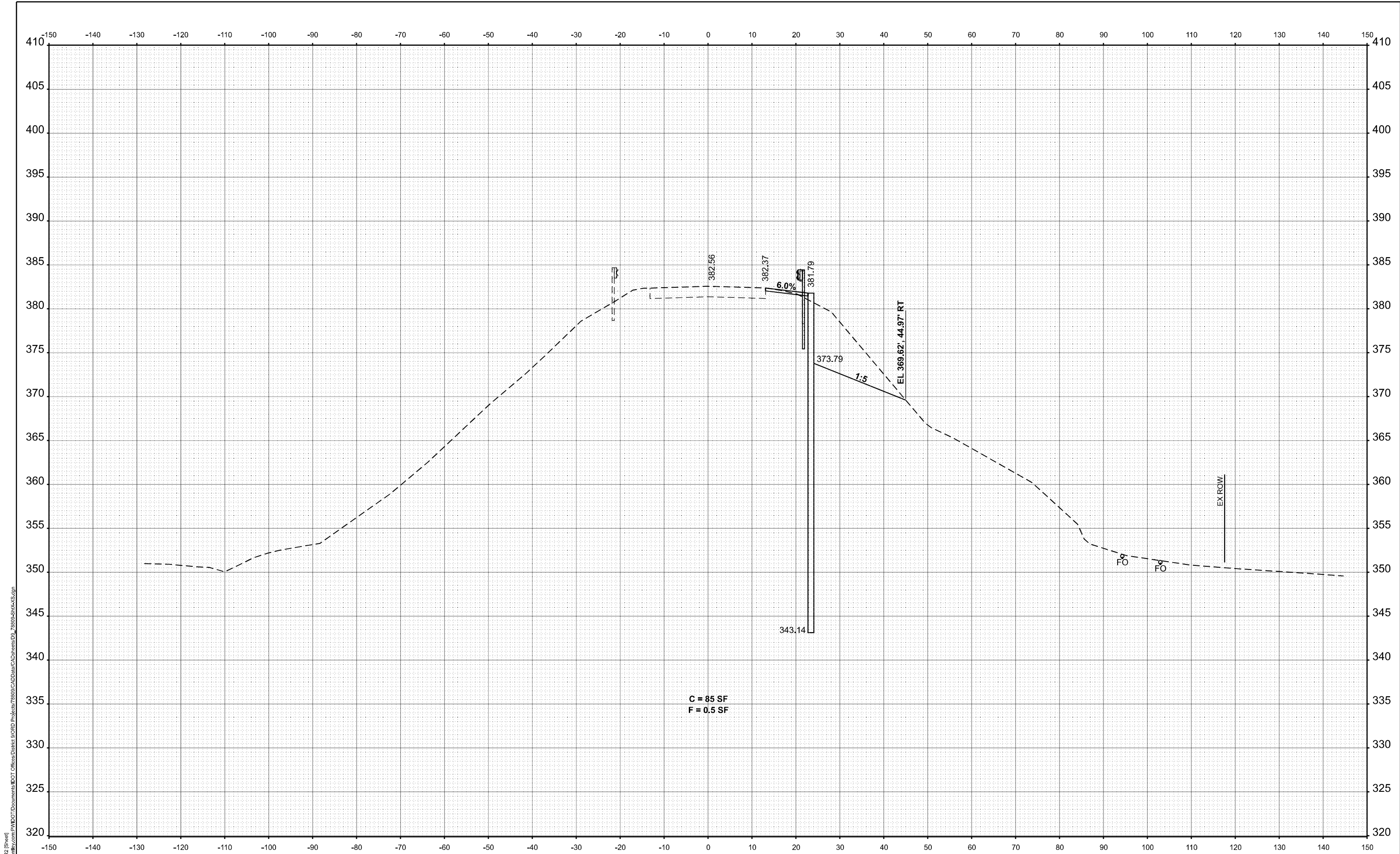
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	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 23 OF 27 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	23
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				



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STA 344+00.00

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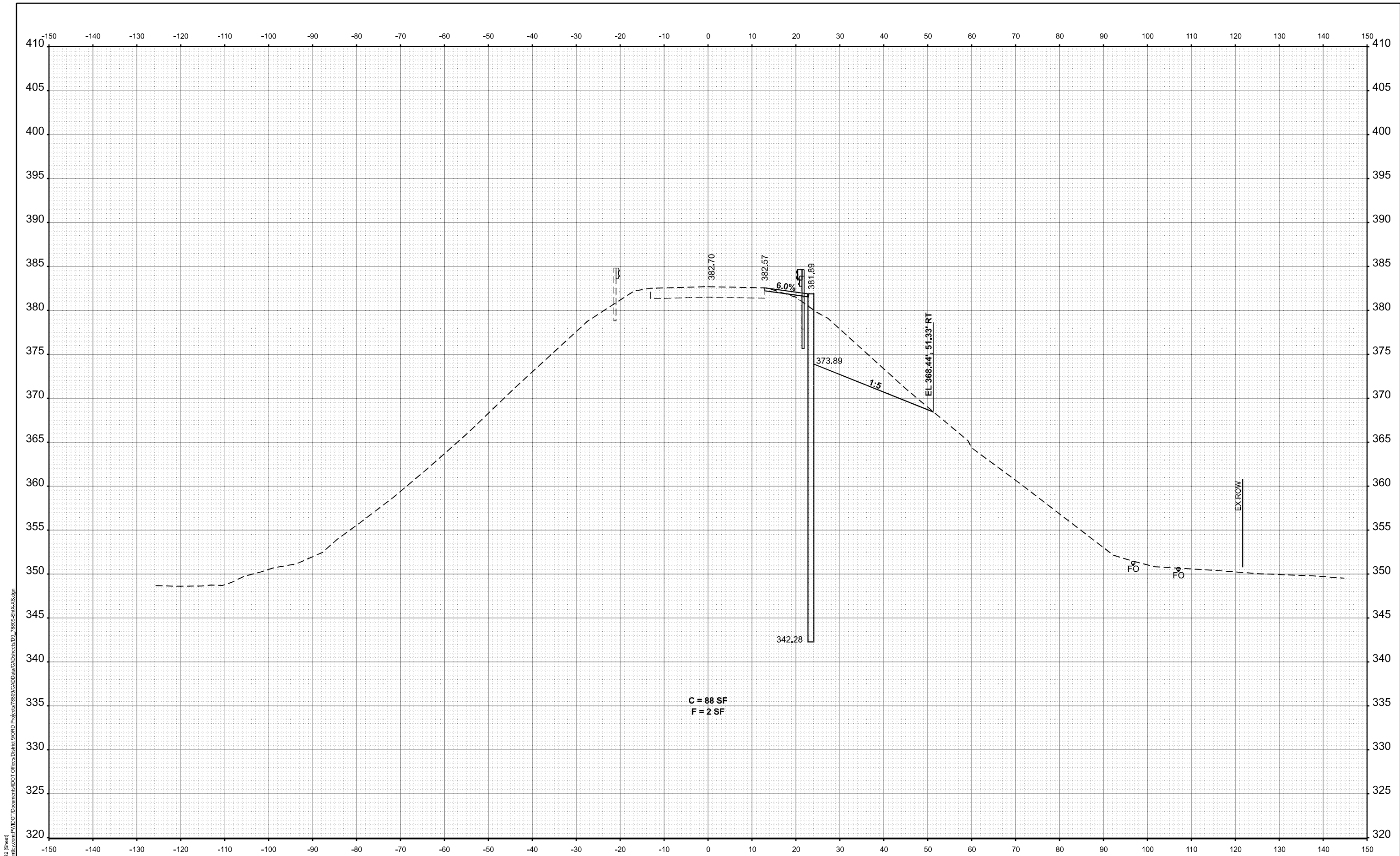
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 24 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	24
CONTRACT NO. 78809			ILLINOIS FED. AID PROJECT	



STA 344+50.00

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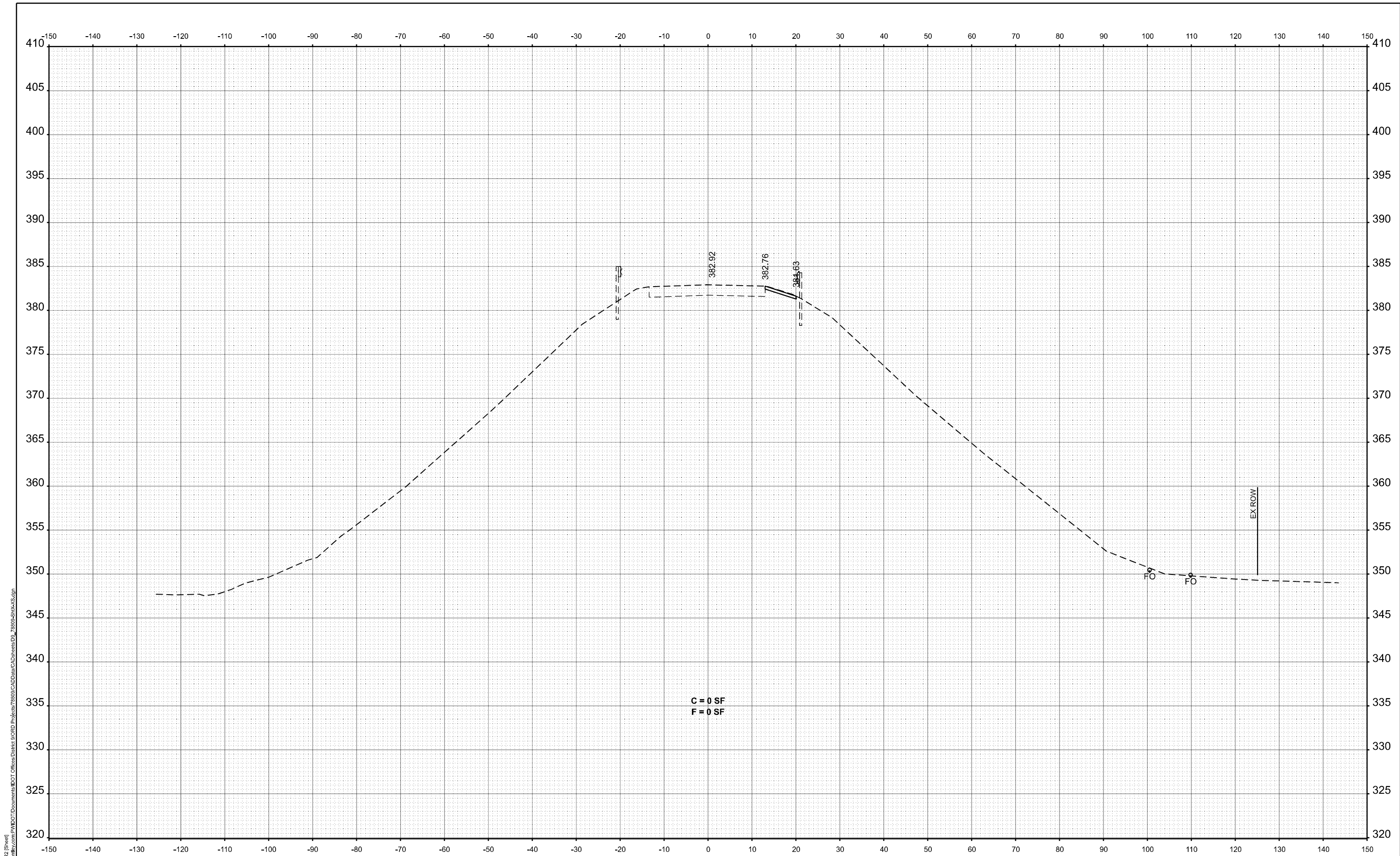
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PLOT DATE = 5/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 25 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	25
CONTRACT NO. 78809			ILLINOIS FED. AID PROJECT	



STA 344+91.50

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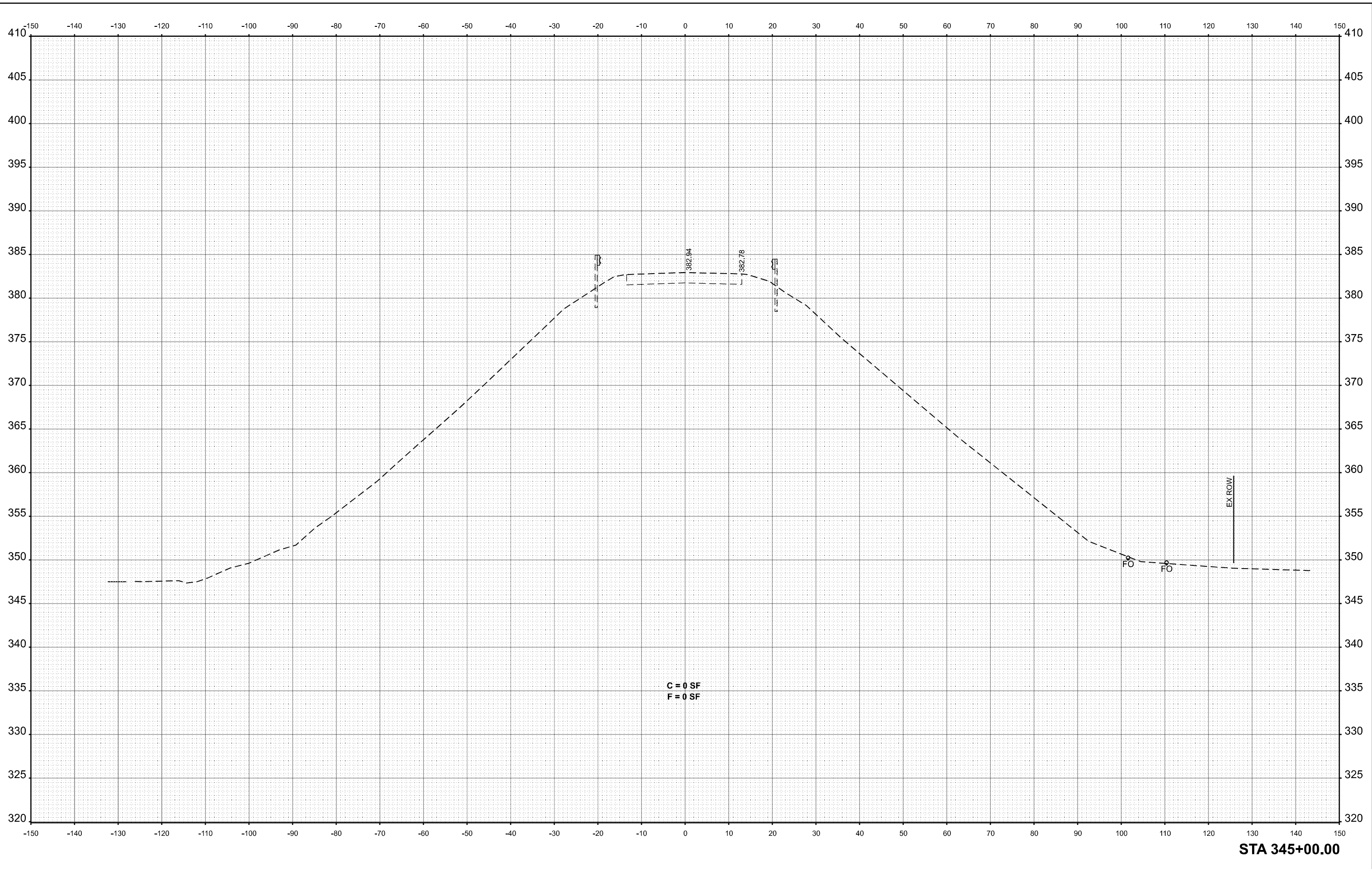
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 26 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	26
CONTRACT NO. 78809				
ILLINOIS FED. AID PROJECT				

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STA 345+00.00

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PLOT DATE = 5/18/2023	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL. 1 CROSS SECTIONS

SCALE: 1"=10' SHEET 27 OF 27 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	113SLP-1	GALLATIN	27	27
CONTRACT NO. 78809				

ILLINOIS FED. AID PROJECT