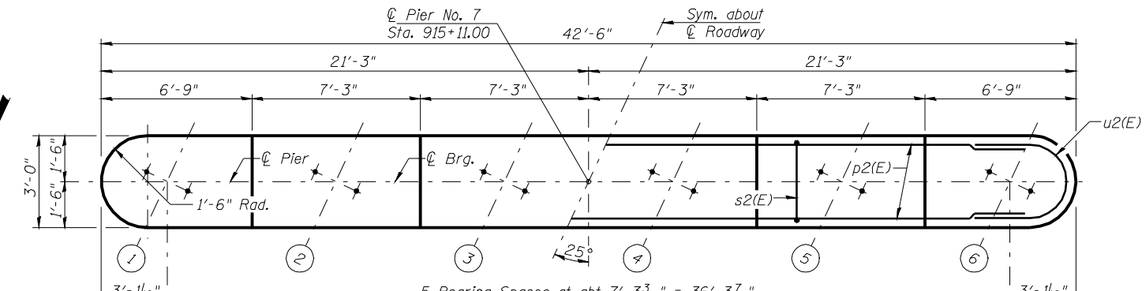
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles and concrete encasement, see sheet 71 of 86.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

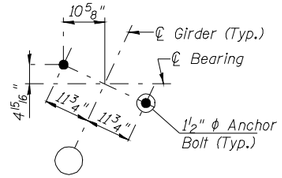
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	201
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 65
86 SHEETS

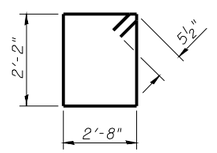
Contract #72A76



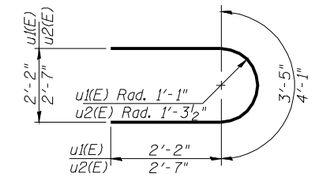
TOP PLAN



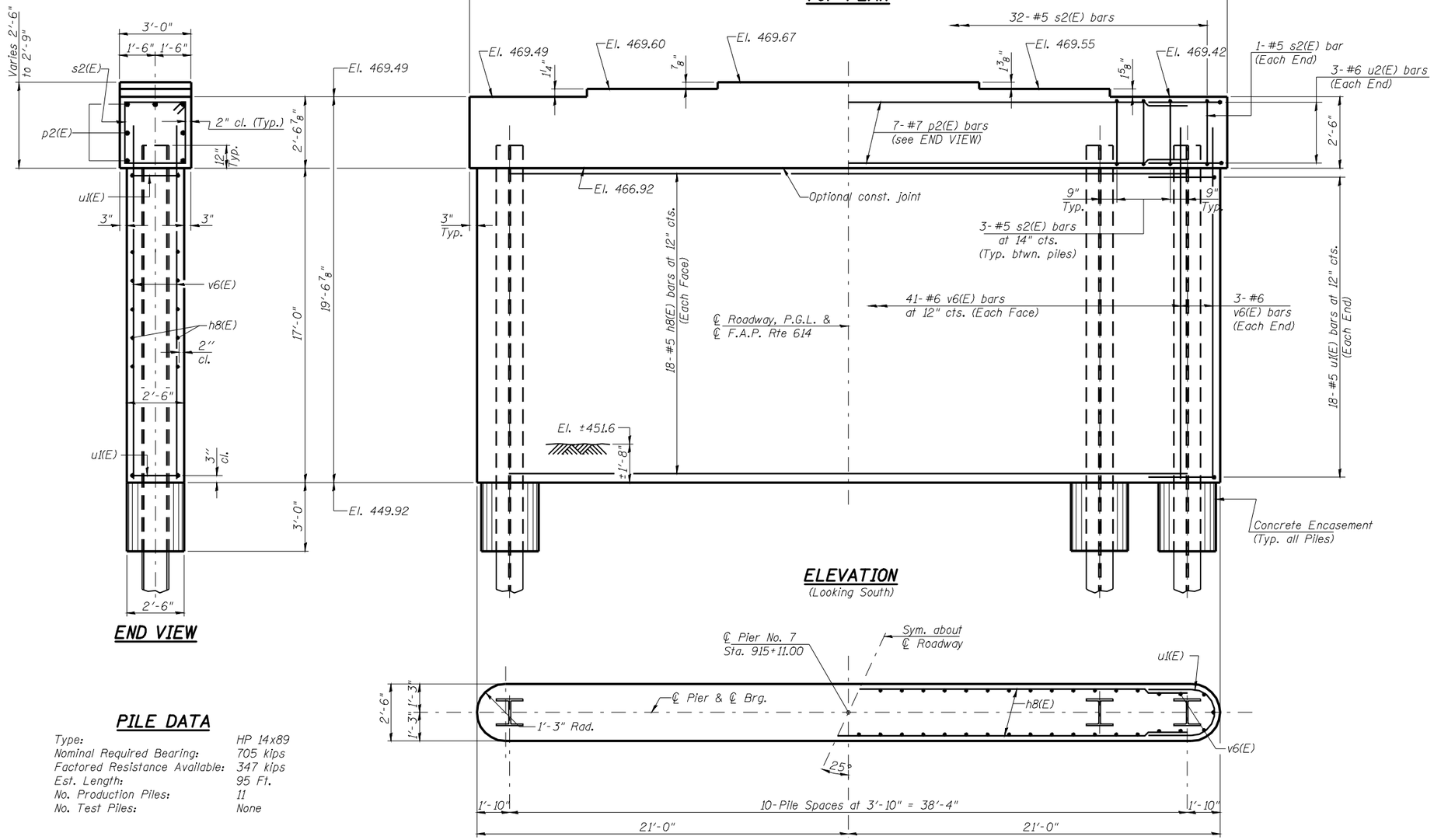
ANCHOR BOLT LAYOUT
(Typical all Girder Locations)



BAR s2(E)



BARS u1(E) & u2(E)



END VIEW

ELEVATION
(Looking South)

PILE DATA

Type:	HP 14x89
Nominal Required Bearing:	705 kips
Factored Resistance Available:	347 kips
Est. Length:	95 Ft.
No. Production Piles:	11
No. Test Piles:	None

FOOTING PLAN

BILL OF MATERIAL - PIER 7

Bar	No.	Size	Length	Shape
h8(E)	36	#5	39'-6"	——
p2(E)	7	#7	39'-6"	——
s2(E)	32	#5	10'-7"	□
u1(E)	36	#5	7'-9"	⊃
u2(E)	6	#6	9'-3"	⊃
v6(E)	88	#6	18'-6"	——
Structure Excavation		Cu. Yd.	19	
Concrete Structures		Cu. Yd.	77.6	
Reinforcement Bars, Epoxy Coated		Pound	5220	
Furnishing Steel Piles, HP 14x89		Foot	1045	
Driving Piles		Foot	1045	
Concrete Encasement		Cu. Yd.	6.0	
Pile Shoes		Each	11	

PIER 7 - DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

LAYOUT	VPT	09/12/08
DRAWN	Rad	09/30/08
REVIEWED	TEH	09/30/08

Mon 3/2009 08:03:55 AM
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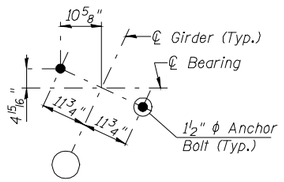
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
Buried timber piles may be encountered at Pier 8.
For details of piles, see sheet 71 of 86.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

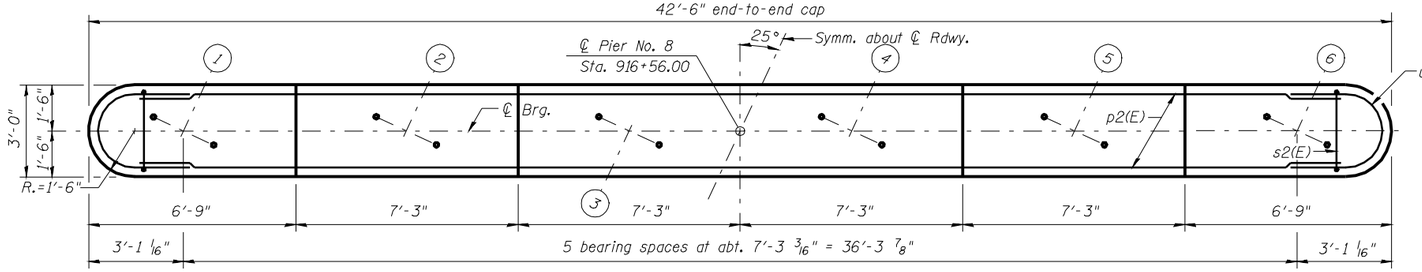
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	202
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 66
86 SHEETS

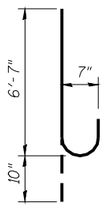
Contract #72A76



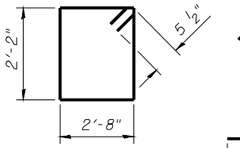
ANCHOR BOLT LAYOUT
(Typical all Girder Locations)



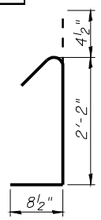
TOP PLAN



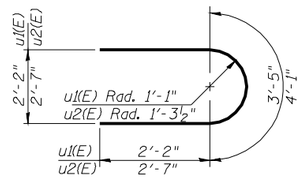
BAR n2(E)



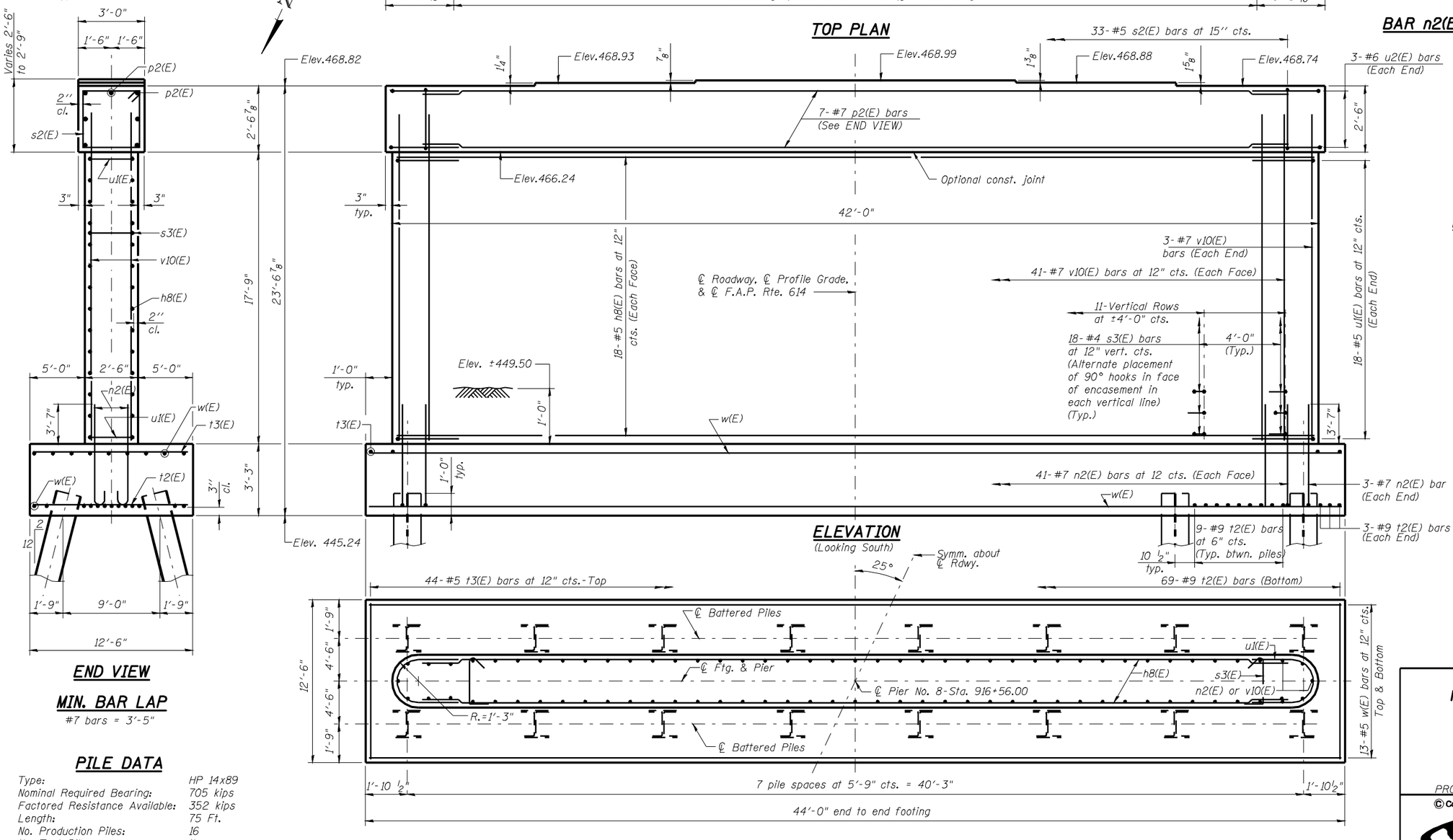
BAR s2(E)



BAR s3(E)



BARS u1(E) & u2(E)



ELEVATION
(Looking South)

END VIEW

MIN. BAR LAP
#7 bars = 3'-5"

FOOTING PLAN

PILE DATA

Type:	HP 14x89
Nominal Required Bearing:	705 kips
Factored Resistance Available:	352 kips
Length:	75 Ft.
No. Production Piles:	16
No. Test Piles:	None

BILL OF MATERIAL - PIER 8

Bar	No.	Size	Length	Shape
h8(E)	36	#5	39'-6"	
n2(E)	88	#7	7'-5"	
p2(E)	7	#7	39'-6"	
s2(E)	33	#5	10'-7"	
s3(E)	198	#4	3'-3"	
t2(E)	69	#9	12'-0"	
t3(E)	44	#5	12'-0"	
u1(E)	36	#5	7'-9"	
u2(E)	6	#6	9'-3"	
v10(E)	88	#7	19'-9"	
w(E)	26	#5	43'-6"	
Structure Excavation		Cu. Yd.	125	
Concrete Structures		Cu. Yd.	146.7	
Reinforcement Bars, Epoxy Coated		Pound	12650	
Furnishing Steel Piles, HP14x89		Foot	1200	
Driving Piles		Foot	1200	
Pile Shoes		Each	16	

PIER 8 - DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO. 07S2026
DATE 03/27/09

LAYOUT	VPT	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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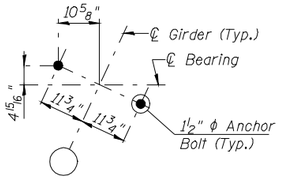
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 71 of 86.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	203
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

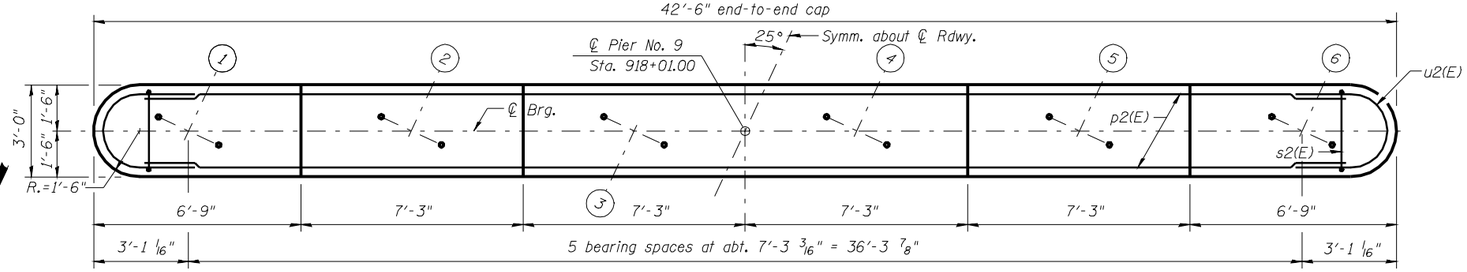
SHEET NO. 67
86 SHEETS

Contract #72A76

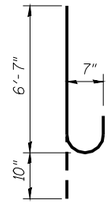
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



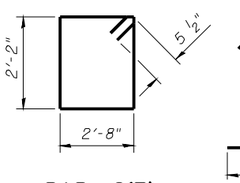
ANCHOR BOLT LAYOUT
(Typical all Girder Locations)



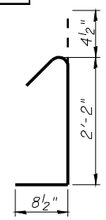
TOP PLAN



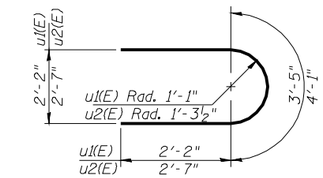
BAR n2(E)



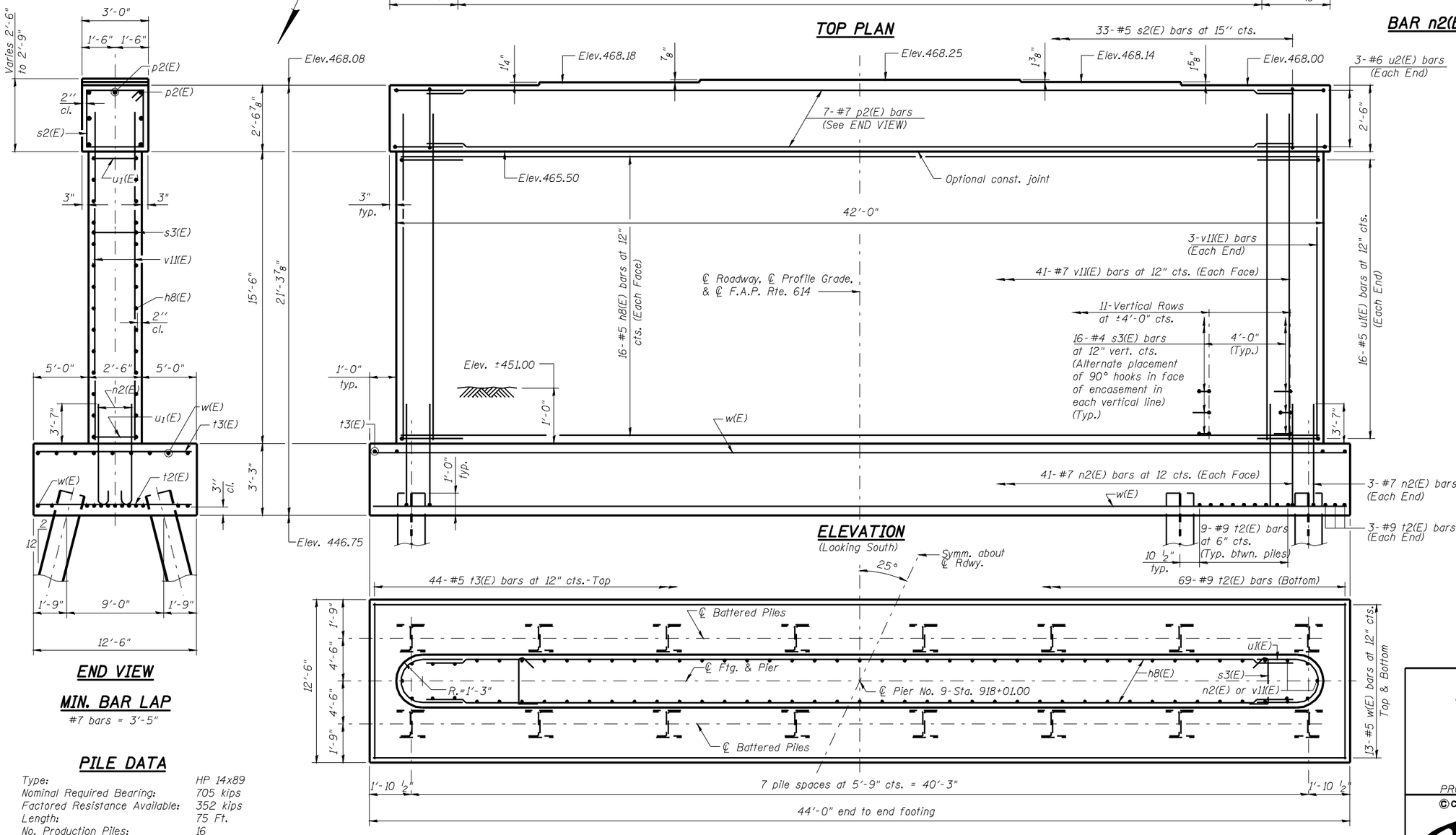
BAR s2(E)



BAR s3(E)



BARS u1(E) & u2(E)



END VIEW

MIN. BAR LAP
#7 bars = 3'-5"

ELEVATION
(Looking South)

FOOTING PLAN

PILE DATA

Type:	HP 14x89
Nominal Required Bearing:	705 kips
Factored Resistance Available:	352 kips
Length:	75 Ft.
No. Production Piles:	16
No. Test Piles:	None

BILL OF MATERIAL - PIER 9

Bar	No.	Size	Length	Shape
h8(E)	32	#5	39'-6"	
n2(E)	88	#7	7'-5"	
p2(E)	7	#7	39'-6"	
s2(E)	33	#5	10'-7"	
s3(E)	176	#4	3'-3"	
t2(E)	69	#9	12'-0"	
t3(E)	44	#5	12'-0"	
u1(E)	32	#5	7'-9"	
u2(E)	6	#6	9'-3"	
v11(E)	88	#7	17'-6"	
w(E)	26	#5	43'-6"	
Structure Excavation		Cu. Yd.	62	
Concrete Structures		Cu. Yd.	138.0	
Reinforcement Bars, Epoxy Coated		Pound	12000	
Furnishing Steel Piles, HP14x89		Foot	1200	
Driving Piles		Foot	1200	
Pile Shoes		Each	16	
Braced Excavation		Cu. Yd.	146	

PIER 9 - DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

LAYOUT	VPT	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

Mar-31-2009 09:04:01AM
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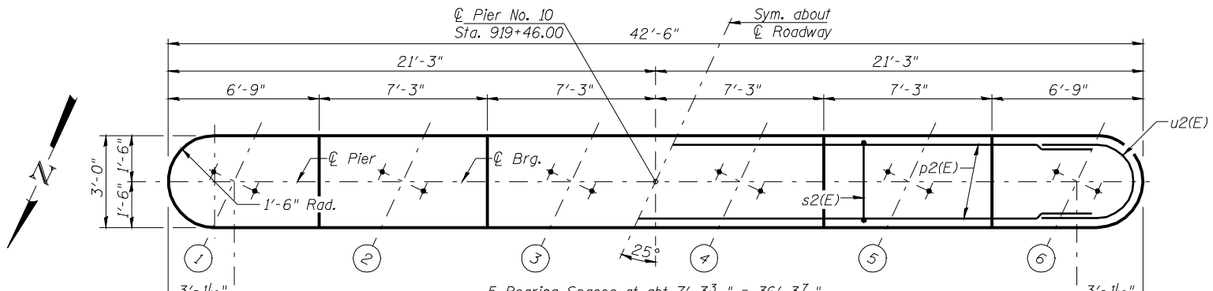
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles and concrete encasement, see sheet 71 of 86.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

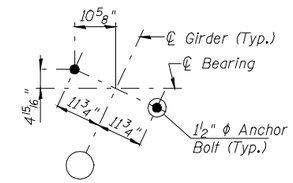
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	204
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 68
86 SHEETS

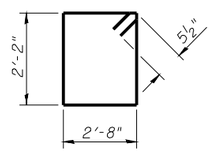
Contract #72A76



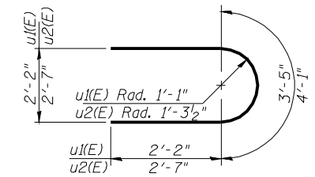
TOP PLAN



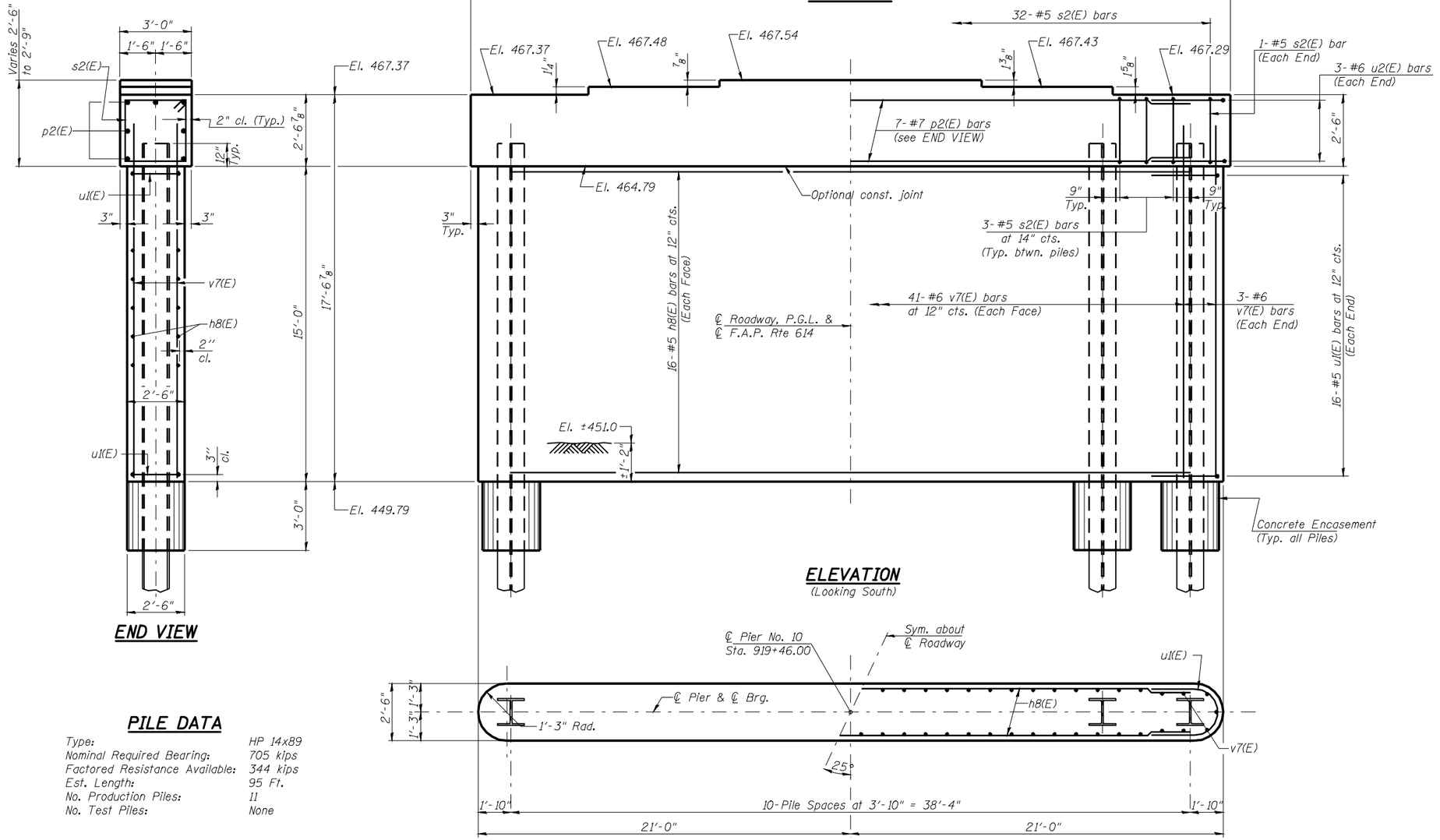
ANCHOR BOLT LAYOUT
(Typical all Girder Locations)



BAR s2(E)



BARS u1(E) & u2(E)



END VIEW

ELEVATION
(Looking South)

PILE DATA

Type:	HP 14x89
Nominal Required Bearing:	705 kips
Factored Resistance Available:	344 kips
Est. Length:	95 Ft.
No. Production Piles:	11
No. Test Piles:	None

FOOTING PLAN

BILL OF MATERIAL - PIER 10

Bar	No.	Size	Length	Shape
h8(E)	32	#5	39'-6"	——
p2(E)	7	#7	39'-6"	——
s2(E)	32	#5	10'-7"	□
u1(E)	32	#5	7'-9"	⊐
u2(E)	6	#6	9'-3"	⊐
v7(E)	88	#6	16'-6"	——
Structure Excavation		Cu. Yd.	10	
Concrete Structures		Cu. Yd.	69.9	
Reinforcement Bars, Epoxy Coated		Pound	4760	
Furnishing Steel Piles, HP 14x89		Foot	1045	
Driving Piles		Foot	1045	
Concrete Encasement		Cu. Yd.	6.0	
Pile Shoes		Each	11	
Braced Excavation		Cu. Yd.	39	

PIER 10 - DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510
PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

LAYOUT	VPT	09/12/08
DRAWN	Rad	09/30/08
REVIEWED	TEH	09/30/08

Mon 3/2009 08:04:04 AM
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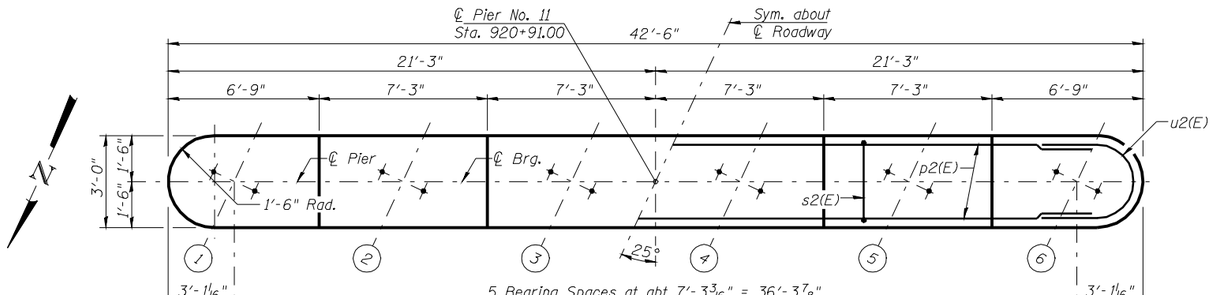
Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles and concrete encasement, see sheet 71 of 86.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

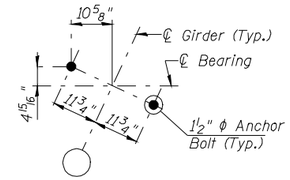
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	205
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 69
86 SHEETS

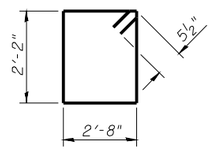
Contract #72A76



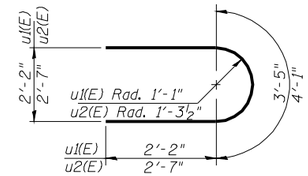
TOP PLAN



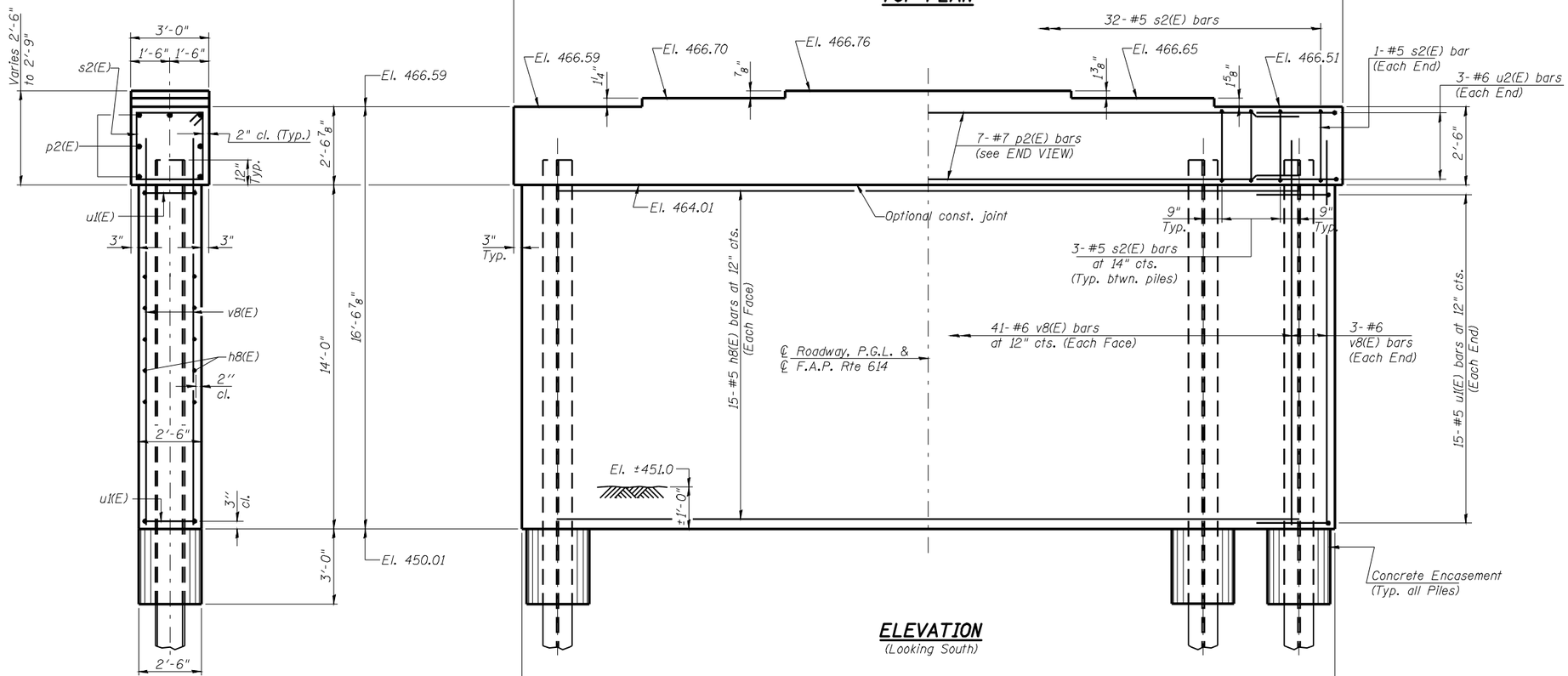
ANCHOR BOLT LAYOUT
(Typical all Girder Locations)



BAR s2(E)



BARS u1(E) & u2(E)

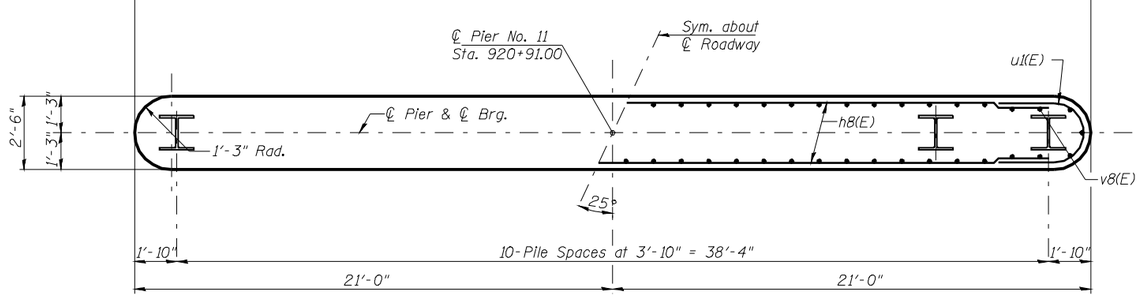


END VIEW

ELEVATION
(Looking South)

PILE DATA

Type:	HP 14x89
Nominal Required Bearing:	705 kips
Factored Resistance Available:	345 kips
Est. Length:	95 Ft.
No. Production Piles:	10
No. Test Piles:	1



FOOTING PLAN

BILL OF MATERIAL - PIER 11

Bar	No.	Size	Length	Shape
h8(E)	30	#5	39'-6"	——
p2(E)	7	#7	39'-6"	——
s2(E)	32	#5	10'-7"	□
u1(E)	30	#5	7'-9"	⊃
u2(E)	6	#6	9'-3"	⊃
v8(E)	88	#6	15'-6"	——

Structure Excavation	Cu. Yd.	6
Concrete Structures	Cu. Yd.	66.1
Reinforcement Bars, Epoxy Coated	Pound	4530
Furnishing Steel Piles, HP 14x89	Foot	950
Driving Piles	Foot	950
Test Pile, HP 14x89	Each	1
Concrete Encasement	Cu. Yd.	6.0
Pile Shoes	Each	11
Braced Excavation	Cu. Yd.	64

PIER 11 - DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510
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DATE 03/27/09

LAYOUT	VPT	09/12/08
DRAWN	Rod	09/30/08
REVIEWED	TEH	09/30/08

Mrr-3-2009 080407 AM
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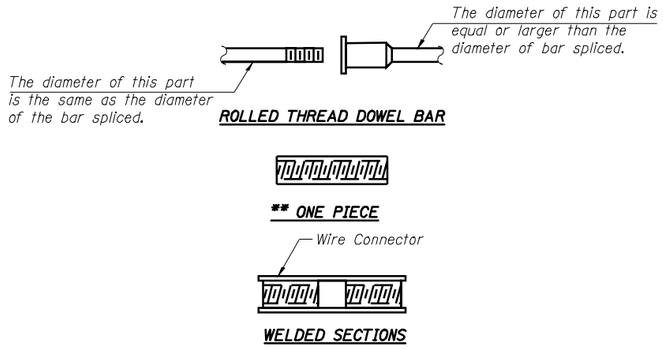
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	206
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 70
86 SHEETS

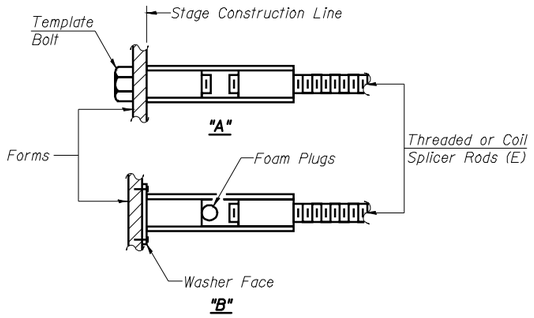
Contract #72A76

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

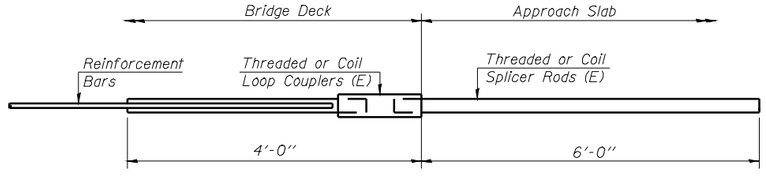
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

① Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times fy \times A_t$

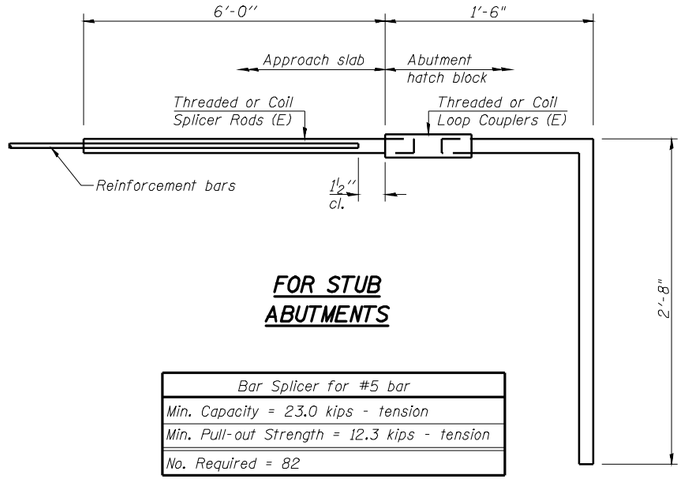
Where fy = Yield strength of lapped reinforcement bars in ksi.
A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements: Min. Capacity kips - tension	Strength Requirements: Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

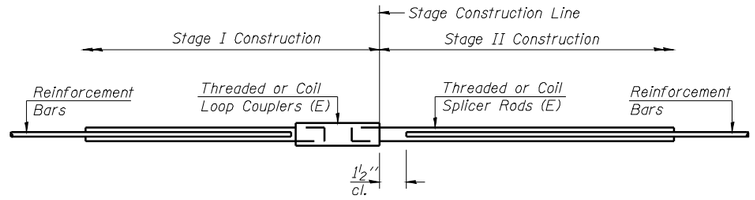
Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =



FOR STUB ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 82

Bar Size	No. Assemblies Required	Location
#5	41	No. Abut.
#5	41	So. Abut.



STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER - DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

BSD-1 5-16-08

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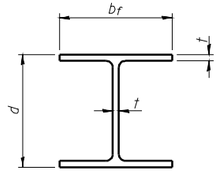
LAYOUT	MNM	09/12/08
DRAWN	Rod	09/30/08
REVIEWED	TEH	09/30/08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	207
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

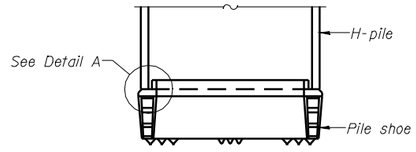
SHEET NO. 71
86 SHEETS

Contract #72A76

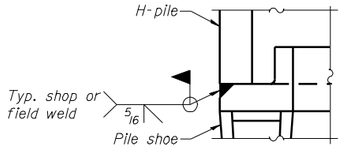


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

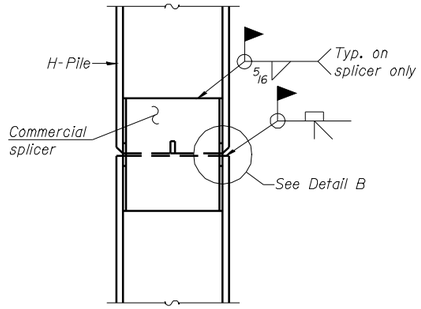


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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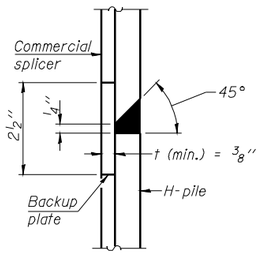
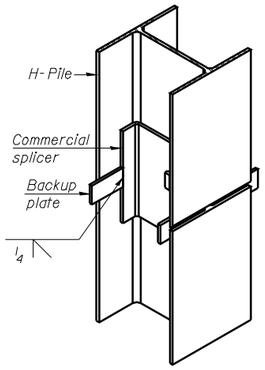
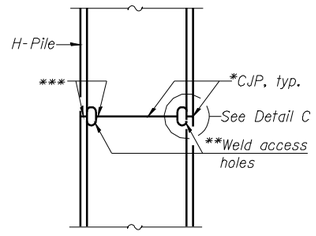


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



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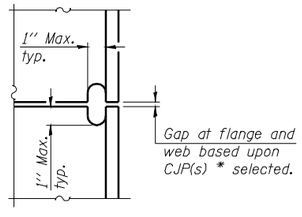


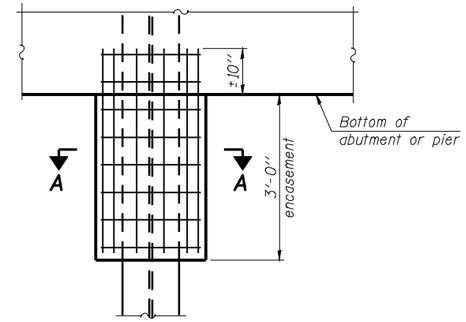
DETAIL C

COMPLETE PENETRATION WELD SPLICE

*Use joint conforming to Figure 3.4 in AWS D1.1. Structure Welding Code - Steel.

**Preparation per Fig. 5.2 in AWS D1.1. Structure Welding Code - Steel.

***Interrupt welds 1/4" from end of each pile.



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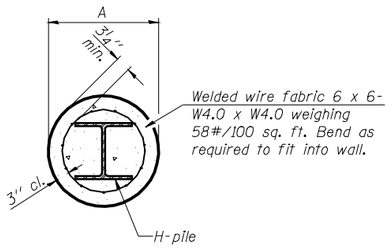
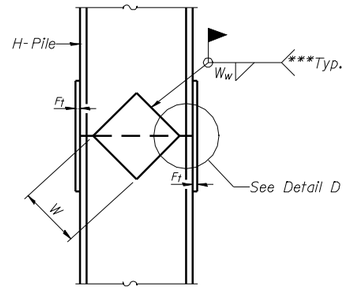


Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

PILE ENCASEMENT



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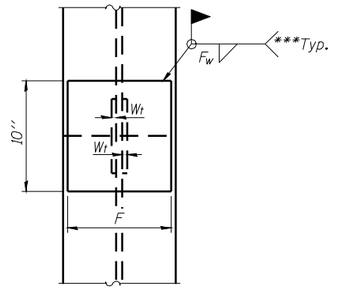
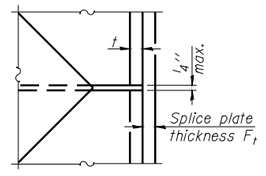


END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

STEEL H-PILE DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	MNM	09/12/08
DRAWN	Rod	09/30/08
REVIEWED	TEH	09/30/08

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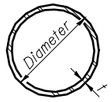
F-HP 5-16-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	208
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

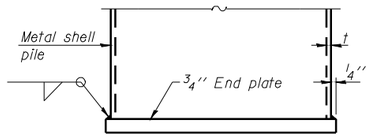
SHEET NO. 72
86 SHEETS

Contract #72A76

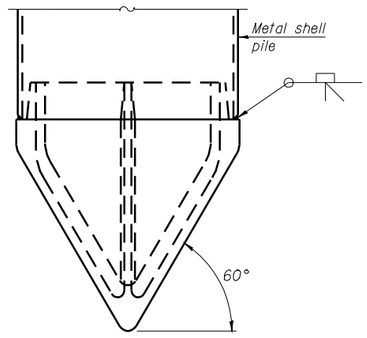


METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.³/ft.)
PP12	0.179''	22.60	0.0274
PP12	0.250''	31.37	0.0267
PP14	0.250''	36.71	0.0368
PP14	0.312''	45.61	0.0361



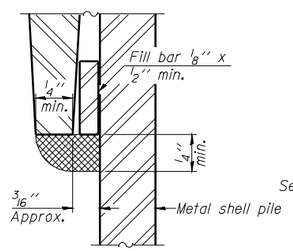
END PLATE ATTACHMENT



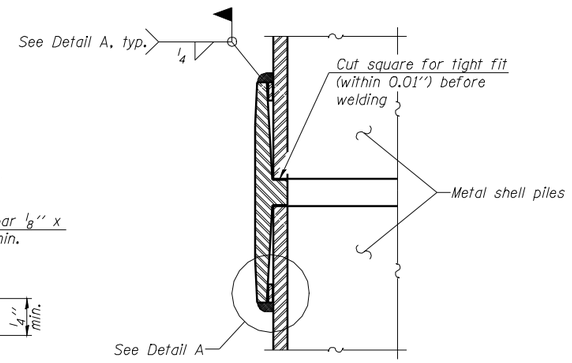
Note A:
When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

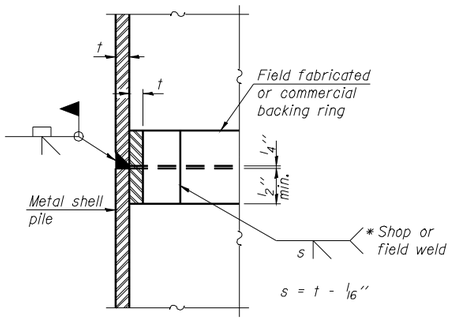


DETAIL A



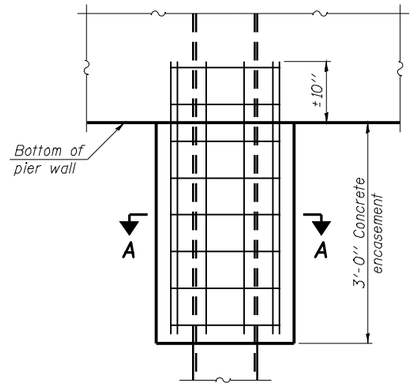
Notes:
The 1/8'' x 1/2'' min. fill bar may be constructed of 2 bars with a 1/8'' max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



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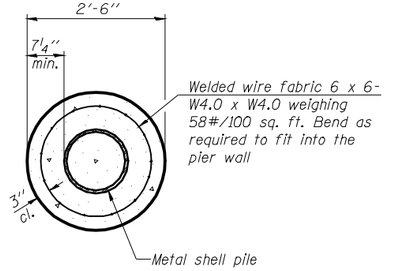
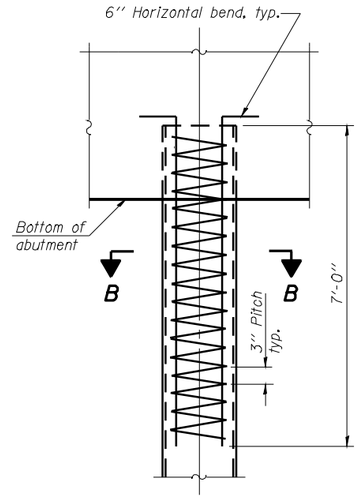


SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS



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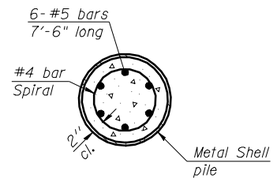

SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

Note:
The metal shell piles shall be according to ASTM A 252 Grade 3.

METAL SHELL PILE DETAILS
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

LAYOUT	TEH	02/03/09
DRAWN	BWC	02/03/09
REVIEWED	TEH	02/03/09

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F-MS 10-1-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	209
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 73
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 3

Date 12/13/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappen

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+18
BORING NO. 0510-N N. Abut.
Station 904+18
Offset 10.0ft RT
Ground Surface Elev. 462.1 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436± ft
Groundwater Elev.:
▽ First Encounter 443.1 ft
▽ Upon Completion N/A ft
▽ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	
				Grey and Brown Moist SILTY CLAY
	2			
-5	3	1.2	19	
456.60	5	S-12		
				Grey Moist SANDY CLAY LOAM
	2			CLASSIFICATION 0510-N-1
	3	1.0	16	42% Passing #200
	5	S-8		20% Clay /22% Silt/58% Sand
				LL = 21 PI=6
	1			
	2	0.7	19	
-10	2	P		
451.10				
	17			Fine to Medium SAND
	32			Broken Concrete with Tan
	5			Medium Sand
	1			
				Tan Moist Fine to Medium Sand
-15	1			
	2			
	1			
	1			
	2			
	0			
				Grey Wet Fine Sand
-20	1			Free Water
	1			

DEPTH (ft)	BLOWS /6"	
		Fine to Medium SAND (continued)
	0	
	1	Grey Wet Fine
	1	
	0	
	1	Grey Dirty Fine to Medium Sand
-35	2	
435.10		
		Grey Medium SAND
	2	
	2	Wood in Sampler
-30	3	(Washed)
	6	Grey Medium Sand
-35	7	Wood in Sampler
		(Washed)
	2	
	5	With some 1/2" Gravel
	8	Begin Rotary Mud Drilling
		Adjusted Sample Interval
-40		

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)

File Name S:\SOILS\DWT FILES\CASS\3_7R AT SANGAMON RIVER\DWT Date Template: DATEMPLT.DGT Date Printed: 9/2008
Latitude 40°08'58.8" Longitude 89°55'18.9" Datum: NAD83 Job Number: D-91-062-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 3

Date 12/13/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappen

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+18
BORING NO. 0510-N N. Abut.
Station 904+18
Offset 10.0ft RT
Ground Surface Elev. 462.1 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436± ft
Groundwater Elev.:
▽ First Encounter 443.1 ft
▽ Upon Completion N/A ft
▽ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	
				Grey Medium SAND (continued)
	4			
	7			With some 1/4" Gravel
	7			
417.10				
-45				Grey Fine SANDY GRAVEL
	3			
	6			
	8			
-50				
-55				
	9			
	9			Grey Fine SANDY GRAVEL
	8			
-60				

DEPTH (ft)	BLOWS /6"	
		Grey Fine SANDY GRAVEL (continued)
-65		Assumed 6" Cobble (Limestone Chips in Return Mud)
	8	
	12	Grey Fine SANDY GRAVEL
	14	
-70		
-75		
	7	
	14	Grey Fine SANDY GRAVEL
	12	
-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)

File Name S:\SOILS\DWT FILES\CASS\3_7R AT SANGAMON RIVER\DWT Date Template: DATEMPLT.DGT Date Printed: 9/2008
Latitude 40°08'58.8" Longitude 89°55'18.9" Datum: NAD83 Job Number: D-91-062-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 3 of 3

Date 12/13/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappen

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+18
BORING NO. 0510-N N. Abut.
Station 904+18
Offset 10.0ft RT
Ground Surface Elev. 462.1 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436± ft
Groundwater Elev.:
▽ First Encounter 443.1 ft
▽ Upon Completion N/A ft
▽ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	
				Grey Fine SANDY GRAVEL (continued)
380.10				
				Light Grey Very Well Indurated Charty LIMESTONE
				Rotary Drilled 2.1 ft in 15 minutes.
				Very Hard Drilling
377.60	100/1"			
-85				Boring Complete
-90				
-95				
-100				

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)

File Name S:\SOILS\DWT FILES\CASS\3_7R AT SANGAMON RIVER\DWT Date Template: DATEMPLT.DGT Date Printed: 9/2008
Latitude 40°08'58.8" Longitude 89°55'18.9" Datum: NAD83 Job Number: D-91-062-07

BORINGS (SHEET 1)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	210
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 74
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 3

Date 11-27-07
11-28-07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr
009-0005 Ex
Station 913+16

BORING NO. 0510-P1 Pier 1
Station 905+66
Offset 10.0R RT
Ground Surface Elev. 461.5 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 438* ft

Groundwater Elev.:
▽ First Encounter 445.0 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey & Brown Moist CLAY LOAM Ref Class P2-1			
	0		
	12	1.5	12
-5 Concrete *See Note*	100/1"	P	
455.50			
Fine SAND	1		
Brown Fine Moist GRADATION P1-G1	1		
	2		
	1		
w/Coarse Gravel & Concrete	2		
-10	36		
	2		
Tan Fine Moist Sand	5		
	6		
	12		
	32		
-15	20		
▽	0		
Grey Fine Wet Sand	1		
Free Water	1		
	0		
-20	1		
Fine SAND (continued)			
Grey Fine Wet Sand (Washed)	0		
	2		
	3		
(Washed)	4		
-25	3		
	5		
434.00			
Grey Medium to Coarse SAND (Washed) GRADATION P1-G2	1		
-30	5		
	7		
Begin Mud Rotary Drilling Adjusted Sample Interval	13		
	18		
	18		
-35			
Grey Medium SAND	8		
GRADATION P1-G3	10		
	8		
-40			

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)

File Name S:\DGN\LGNF FILES\CAD\IL 78 AT SANGAMON RIVER\GEN Date Template: DATE\MAY\2007 Date Printed: 6/9/08
Lithonia 40*0'53.8284" Longitude 89*58'53.1776" Datum NAD83 Job Number D-88-008-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 3

Date 11-27-07
11-28-07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr
009-0005 Ex
Station 913+16

BORING NO. 0510-P1 Pier 1
Station 905+66
Offset 10.0R RT
Ground Surface Elev. 461.5 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 438* ft

Groundwater Elev.:
▽ First Encounter 445.0 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Medium SAND (continued)			
Begin 11-28-07	4		
Grey Medium Sand w/Some 1/4"	10		
to 1/2" Gravel	19		
-45			
415.50			
Grey Fine to Medium SANDY GRAVEL			
	2		
	4		
GRADATION P1-G4	7		
-50			
407.50			
Grey Medium to Coarse SAND			
-55			
w/Some 1/4"Gravel	7		
GRADATION P1-G5	10		
	12		
-60			
Grey Medium to Coarse SAND (continued)			
397.50			
Grey Fine SAND			
-65			
GRADATION P1-G6	4		
	4		
	7		
-70			
-75			
	10		
	9		
Grey Fine Sand	10		
-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)

File Name S:\DGN\LGNF FILES\CAD\IL 78 AT SANGAMON RIVER\GEN Date Template: DATE\MAY\2007 Date Printed: 6/9/08
Lithonia 40*0'53.8284" Longitude 89*58'53.1776" Datum NAD83 Job Number D-88-008-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 3 of 3

Date 11-27-07
11-28-07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr
009-0005 Ex
Station 913+16

BORING NO. 0510-P1 Pier 1
Station 905+66
Offset 10.0R RT
Ground Surface Elev. 461.5 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 438* ft

Groundwater Elev.:
▽ First Encounter 445.0 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Fine SAND (continued)			
380.50			
Grey Well Indurated Crystalline LIMESTONE Rotary Drilled 1.2 ft in 13 Minutes			
378.50	100/2"		
Boring Completed			
*Concrete Note: Hit concrete on centerline. Likely side slope concrete wall on existing embankment. Moved boring to 3 ft RT and 5 ft RT and hit concrete that could not be penetrated with the auger. Moved boring to 10 ft RT and encountered some broken concrete as noted on the log.			
-85			
-90			
-95			
-100			

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)

File Name S:\DGN\LGNF FILES\CAD\IL 78 AT SANGAMON RIVER\GEN Date Template: DATE\MAY\2007 Date Printed: 6/9/08
Lithonia 40*0'53.8284" Longitude 89*58'53.1776" Datum NAD83 Job Number D-88-008-07

BORINGS (SHEET 2)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	211
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 75
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 3

Date 11/1907

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0610 Pr 009-0005 Ex
Station 913+26

BORING NO. 0610-P2 Pier 2
Station 907+16
Offset 0.0ft
Ground Surface Elev. 457.6 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
First Encounter 441.1 ft
Upon Completion N/A ft
After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Grey Moist CLAY LOAM CLASSIFICATION P2-1 71% Passing #200 26% Clay /46% Silt/28% Sand LL = 34 PI=16	1		
	3 6	1.7	24 B
	1		
Brown and Very Dark Grey	2 3	1.3	19 B
-5 452.10			
Grey Moist CLAY LOAM CLASSIFICATION P2-2*	1		
	2 2	0.8	29 B
450.10			
SAND	1		
Tan Fine Moist	2 3		
-10			
	0		
Brown and Grey Fine Moist w/2" Grey Loam Seam	0 1		
	1		
Tan Medium Moist	2 4		
-15			
	0		
Grey Fine to Medium Free Water	1 2		
	0		
Grey Medium to Coarse	1 1		
-20			

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SAND (continued)			
	0		
Grey Fine (Washed)	0 1		
	2		
Grey Medium Sand (Washed)	2 3		
-25			
	5		
Grey Medium Sandy Gravel (Washed)	6 7		
-30			
	7		
Grey Medium Sand w/some 14" Pea Gravel Begin Mud Rotary Drilling Adjusted Sample Interval	8 6		
	5		
Grey Fine Sandy Gravel	6 6		
-40			

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)

File Name S:\SOILBORT FILES\CASS\L 78 AT SANGAMON RIVER\BORT Date Template DISTRICT.DGT Date Printed 9/2/08
Latitude 40°12.6288 Longitude 89°56.1790 Datum NAD83 Job Number P-91-106-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 3

Date 11/1907

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0610 Pr 009-0005 Ex
Station 913+26

BORING NO. 0610-P2 Pier 2
Station 907+16
Offset 0.0ft
Ground Surface Elev. 457.6 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
First Encounter 441.1 ft
Upon Completion N/A ft
After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SAND (continued)			
	5		
Grey Medium to Coarse Sand	6 8		
-45 412.10			
Grey Fine SANDY GRAVEL	7		
	7 7		
-50			
404.60			
Grey Medium SAND			
-55			
	6		
Grey Medium Sand w/some 14" to 1/2" Pea Gravel	8 8		
-60			

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Medium SAND (continued)			
-65			
	16		
Grey Medium Sand w/some 14" Pea Gravel	30 30		
-70			
	17		
Grey Medium Sand	29 45		
378.10			
LIMESTONE			
-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)

File Name S:\SOILBORT FILES\CASS\L 78 AT SANGAMON RIVER\BORT Date Template DISTRICT.DGT Date Printed 9/2/08
Latitude 40°12.6288 Longitude 89°56.1790 Datum NAD83 Job Number P-91-106-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 3 of 3

Date 11/1907

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0610 Pr 009-0005 Ex
Station 913+26

BORING NO. 0610-P2 Pier 2
Station 907+16
Offset 0.0ft
Ground Surface Elev. 457.6 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
First Encounter 441.1 ft
Upon Completion N/A ft
After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
LIMESTONE (continued) Light Grey Well Indurated Crystalline (Started Drilling Hard and Crunchy at 79.5 ft)			
376.10	100/1"		
Boring Completed			
*CLASSIFICATION P2-2 76% Passing #200 26% Clay /49% Silt/24% Sand LL = 33 PI =15			
-85			
-90			
-95			
-100			

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)

File Name S:\SOILBORT FILES\CASS\L 78 AT SANGAMON RIVER\BORT Date Template DISTRICT.DGT Date Printed 9/2/08
Latitude 40°12.6288 Longitude 89°56.1790 Datum NAD83 Job Number P-91-106-07

BORINGS (SHEET 3)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	212
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 76
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 4

Date 11-20-07
08-20-08

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr
009-0005 Ex
Station 913+16

BORING NO. 0610-P3 Pier 3
Station 908+66
Offset 0.0ft
Ground Surface Elev. 451.9 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
First Encounter 437.9 ft
Upon Completion N/A ft
After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Dark Grey Moist CLAY LOAM			
Ref Class P2-1	1		
	2	1.6	15
	3	S-12	
448.40			
Brown and Grey Moist CLAY	1		
LOAM	2	1.2	21
Ref Class P2-2	2	B	
-5			
	1		
	1	0.8	26
	1	B	
443.90			
Brown & Dark Grey Moist CLAY			
CLASSIFICATION P3-1	1		
94% Passing #200	1	1.0	34
47% Clay /47% Silt/6% Sand	2	B	
LL=59 PI=34 -10			
441.40			
Grey Wet CLAY LOAM			
CLASSIFICATION P3-2	0		
64% Passing #200	1	0.2	52
22% Clay /42% Silt/36% Sand	1	B	
LL=30 PI=11			
▽ 437.90	1		
Grey Medium SAND	1		
Free Water	1		
GRADATION P3-G1 -15			
436.40			
Grey Medium to Coarse SAND	0		
(Washed Very Poor Recovery)	1		
	1		
433.90			
Grey Fine SAND			
	1		
GRADATION P3-G2	2		
-20	4		

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Fine SAND (continued)	1		
	3		
428.90	4		
Grey Fine SAND w/Some 1/4"			
Pea Gravel	1		
(Washed)	3		
-25	3		
	2		
(Washed)	3		
-30	6		
Begin Mud Rotary Drilling	4		
Adjust Sample Interval	7		
	8		
-35			
415.90			
Grey Medium SAND w/Some			
Small Pea Gravel	4		
	8		
GRADATION P3-G4	10		
-40			

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)

File Name S:\DOL\DGN\T FILES\CAD\SL_78 AT SANGAMON RIVER\SLP1 Data Template SMITSMA\T.DGT Date Printed 03/09/09
Latitude 40°04'28.76" Longitude 89°56'43.70" Datum: NAD83 Job Number D-98-026-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 4

Date 11-20-07
08-20-08

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr
009-0005 Ex
Station 913+16

BORING NO. 0610-P3 Pier 3
Station 908+66
Offset 0.0ft
Ground Surface Elev. 451.9 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
First Encounter 437.9 ft
Upon Completion N/A ft
After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Medium SAND w/Some			
Small Pea Gravel (continued)			
409.90			
Grey Medium to Coarse SAND w/	3		
Some 1/4" Pea Gravel	5		
GRADATION P3-G5	7		
-45			
405.90			
Tan Fine SAND			
GRADATION P3-G6	2		
	3		
	5		
-55			
398.90			
Grey Fine SAND to Grey Medium			
SANDY GRAVEL			
	3		
GRADATION P3-G7	4		
	5		
-80			

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Fine SAND to Grey Medium			
SANDY GRAVEL (continued)			
	1		
	2		
GRADATION P3-G8	4		
-70			
380.90			
Grey Medium SANDY GRAVEL			
(Poor Recovery)			
378.99	17		
Borehole continued with rock	100/3"		
coring.			
-75			
-90			

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)

File Name S:\DOL\DGN\T FILES\CAD\SL_78 AT SANGAMON RIVER\SLP1 Data Template SMITSMA\T.DGT Date Printed 03/09/09
Latitude 40°04'28.76" Longitude 89°56'43.70" Datum: NAD83 Job Number D-98-026-07

BORINGS (SHEET 4)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	213
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 77
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

ROCK CORE LOG

Date 11-20-07
08-20-08

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason CORING METHOD Super Gel X /Super Pac Drilling Fluid

STRUCT. NO. 009-0510 Pr
009-0005 Ex
Station 913+16

CORING BARREL TYPE & SIZE NQ2WL
Core Diameter 1.9 in
Top of Rock Elev. 378.90 ft
Begin Core Elev. 378.90 ft

BORING NO. 0510-P3 Pier 3
Station 908+66
Offset 0.0ft
Ground Surface Elev. 461.9 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
ROCK CORE DATA OBTAINED 8/2008	378.90	1	94	48		
Grey Very Well Indurated Cherty LIMESTONE. Very Fractured with Open Irregularly Shape Spherical Voids						1639
	-75					
Open Joints Filled with Grey Weathered Clayey Limetone Residuum						846
	-80					
(Broken Limetone Plugged Core Barrel - Pulled and Cleaned Barrel)			96	67		
						533
	-85					
	382.90					
Grey Very Well Indurated Crystalline LIMESTONE with Micritic limestone clasts			96	85		879
	381.90	-90				1183
Grey Very Well Indurated Crystalline LIMESTONE Closed Joints Spaced 1 to 3 ft						
						1345

Color pictures of the cores Yes, On File
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BBS, form 138 (Rev. 8-99)

ROCK CORE IL 78 AT SANGAMON RIVER(LEFT) DATUM:LIGHT ######

Illinois Department of Transportation
Division of Highways
District 6

ROCK CORE LOG

Date 11-20-07
08-20-08

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason CORING METHOD Super Gel X /Super Pac Drilling Fluid

STRUCT. NO. 009-0510 Pr
009-0005 Ex
Station 913+16

CORING BARREL TYPE & SIZE NQ2WL
Core Diameter 1.9 in
Top of Rock Elev. 378.90 ft
Begin Core Elev. 378.90 ft

BORING NO. 0510-P3 Pier 3
Station 908+66
Offset 0.0ft
Ground Surface Elev. 461.9 ft

	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Grey Very Well Indurated Crystalline LIMESTONE Closed Joints Spaced 1 to 3 ft (continued)	357.90					
Boring Competed	-95					
	-100					
	-105					
	-110					

Color pictures of the cores Yes, On File
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BBS, form 138 (Rev. 8-99)

ROCK CORE IL 78 AT SANGAMON RIVER(RIGHT) DATUM:LIGHT ######

BORINGS (SHEET 5)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	214
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 78
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 3

Date 12/1907

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr 009-0005 Ex
Station 913+16

BORING NO. 0510-P4 Pier 4
Station 909+61
Offset 18.0ft RT
Ground Surface Elev. 447.7 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436° ft

Groundwater Elev.:
▽ First Encounter 439.7 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Brown and Dark Grey Moist SILTY CLAY (Temporary fill placed to facilitate drilling)			
	0		
-5	1	0.6	32
	2	B	
441.70			
Brown and Grey Very Moist CLAY LOAM Refer Class P2-1	0		
	1	0.5	25
▽ 439.70	1	B	
Grey Wet Medium SAND Free Water	0		
GRADATION P4-G1	1		
-10	1		
	0		
(Washed)	1		
	3		
	1		
w/Some Coarse Sand (Washed)	6		
-15	7		
432.20			
Grey Fine SANDY GRAVEL GRADATION P4-G2	1		
	3		
	5		
429.70			
Grey Medium to Coarse SAND	2		
GRADATION P4-G3	5		
-20	7		

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Medium to Coarse SAND (continued) 427.20			
Grey Medium SANDY GRAVEL	3		
Poor Recovery GRADATION P4-G4	4		
	7		
424.70			
Grey Medium to Coarse SAND	4		
GRADATION P4-G5	4		
-25	5		
	3		
	5		
Begin Mud Rotary Drilling Adjusted Sample Interval	5		
	6		
412.20			
Grey Medium to Coarse SAND with some 1/4" Gravel	3		
GRADATION P4-G6	6		
-40	6		

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)

File Name E:\SOILS\DIST 7\LOS\CAM\IL 78 AT SANGAMON RIVER\LOG Date Template DOTSAM1.DOT Date Printed 03/26/09
Latitude 40°06.283N Longitude 89°56.157W Datum NAD83 Job Number D-88-088-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 3

Date 12/1907

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr 009-0005 Ex
Station 913+16

BORING NO. 0510-P4 Pier 4
Station 909+61
Offset 18.0ft RT
Ground Surface Elev. 447.7 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436° ft

Groundwater Elev.:
▽ First Encounter 439.7 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Medium to Coarse SAND with some 1/4" Gravel (continued)			
	2		
	3		
-45	4		
402.20			
Grey Medium SAND with some 1/4" Pea Gravel	2		
GRADATION P4-G7	4		
-50	4		
394.20			
Grey Coarse SAND	1		
GRADATION P4-G8	3		
-60	3		

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Coarse SAND (continued)			
-65			
	2		
Grey Coarse SAND Borehole repeatedly collapsed. Sand plugged drill pipes.	5		
	7		
377.70 -70			
Light Grey Well Indurated Cherty LIMESTONE Limestone chips in return mud Rotary Drilled 2.0 ft in 16 minutes			
375.70			
Borehole continued with rock coring.			
-75			
-80			
-85			
-90			

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)

File Name E:\SOILS\DIST 7\LOS\CAM\IL 78 AT SANGAMON RIVER\LOG Date Template DOTSAM1.DOT Date Printed 03/26/09
Latitude 40°06.283N Longitude 89°56.157W Datum NAD83 Job Number D-88-088-07

Illinois Department of Transportation
Division of Highways
District 6

ROCK CORE LOG

Page 3 of 3

Date 12/1907

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9W, 3 PM

COUNTY Cass and Mason CORING METHOD Double Barrel - Drilling Mud Flush

STRUCT. NO. 009-0510 Pr 009-0005 Ex
Station 913+16

CORING BARREL TYPE & SIZE BWD4
Core Diameter 1.61 in
Top of Rock Elev. 377.70 ft
Begin Core Elev. 375.70 ft

BORING NO. 0510-P4 Pier 4
Station 909+51
Offset 18.0ft RT
Ground Surface Elev. 447.7 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Grey Very Well Indurated Cherty LIMESTONE					
Open Joints Spaced 2" to 12"					
Grey Poorly Indurated Clayey Shale Seam 72.4 to 72.6 ft					
375.70	1	100	49		
-75					501
372.20					
Short Run – Barrel Plugged					
Could not keep borehole open due to hydraulic pressure.					
Abandoned Hole					
-80					
-85					
-90					

Color pictures of the cores None
Cores will be stored for examination until None
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BBS, form 138 (Rev. 8-99)

ROCK CORE IL 78 AT SANGAMON RIVER.DGN DOTSAM1.DOT 03/26/09

BORINGS (SHEET 6)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	215
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 79
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 5

SOIL BORING LOG

Page 1 of 2

Date 10/25/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P5 Pier 5
Station 912+12
Offset 0.0ft
Ground Surface Elev. 442.8 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter No Data ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Fine to Medium SAND			
	2		
-5	3		
GRADATION P5-G1	2		
	1		
Medium Sand	1		
Begin Mud Rotary Drilling	1		
434.10			
Grey Medium to Coarse SAND			
GRADATION P5-G2	1		
-10	1		
	1		
431.60			
Grey SANDY GRAVEL			
Fine	2		
GRADATION P5-G3	2		
	2		
	1		
Fine to Medium	2		
-15	4		
	1		
Medium Sandy Gravel	2		
	2		
	1		
-20	2		
Grey SANDY GRAVEL (continued)			
	2		
	5		
-25	5		
Grey Medium Sandy Gravel	6		
Hole Collapsing – Resume HSA Drilling with Mud			
415.10			
Grey Fine to Medium SAND w/ Some Psa Gravel			
	5		
-30	5		
GRADATION P5-G4	6		
410.10			
Grey Fine SANDY GRAVEL			
	8		
-35	9		
GRADATION P5-G5	10		
	4		
-40	7		

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)

File Name S:\SOILS\DWF FILES\CADD\S_30_R7_SANGAMON RIVER\SBV1.Dan Template SYTEMPLT.DGT Date Printed 8/29/08
Lattitude 40°12'48.65" Longitude 89°56'58.69" Datum WGS84 Job Number D-96-058-07

Illinois Department of Transportation
Division of Highways
District 5

SOIL BORING LOG

Page 2 of 2

Date 10/25/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P5 Pier 5
Station 912+12
Offset 0.0ft
Ground Surface Elev. 442.8 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter No Data ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Grey Fine SANDY GRAVEL (continued)			
	7		
-45			
	4		
Grey Fine Sandy Gravel	5		
-50	6		
388.60			
Grey Medium SANDY GRAVEL (Washed)	100/2"		
w/Broken Weathered Limestone			
-55			
387.10			
Auger Refusal – Boring Completed			
-60			

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)

File Name S:\SOILS\DWF FILES\CADD\S_30_R7_SANGAMON RIVER\SBV2.Dan Template SYTEMPLT.DGT Date Printed 8/29/08
Lattitude 40°12'48.65" Longitude 89°56'58.69" Datum WGS84 Job Number D-96-058-07

BORINGS (SHEET 7)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

Mon 31-2009 080450AM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	216
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 80
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 3

Date 11-29-07
11-30-07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P6 Pier 6
Station 914+17
Offset 8.0ft LT
Ground Surface Elev. 453.4 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encountar No Data ft
▽ Upon Completion N/A ft
▼ After ___ Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	
				Grey & Brown Dry CLAY Ref Class P7-1
	6			
	8	2.7	14	
	8	S-11		
	2			
-5	3	1.6	26	Very Dark Grey Moist
	3	B		
	3			
	3	2.0	19	Dark Grey
	4	B		
	3			
-10	4	1.8	16	Grey
	6	B		
441.90				
	2			
	5			Grey Wet Medium SAND GRADATION P6-G1
	3			
440.40				
				Grey Medium to Coarse SAND
	1			
	1			GRADATION P6-G2
-15	1			
	1			
	3			
	3			
	2			(Washed)
-20	3			

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	
				Grey Medium to Coarse SAND (continued)
	6			
	4			(Washed)
	4			
	5			
-25	4			(Washed)
	5			
	6			Grey Medium to Coarse Sand (Washed)
-30	6			
	18			
	20			Begin Mud Rotary Drilling Adjusted Sample Interval
	22			
-35				
417.40				
	6			Grey Medium SAND w/Some 14" to 1/2" Gravel
	9			GRADATION P6-G3
	11			
-40				

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)

Latitude 40°05.555N Longitude 89°53.888W Datum NAD83 Job Number 2-08-059-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 3

Date 11-29-07
11-30-07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P6 Pier 6
Station 914+17
Offset 8.0ft LT
Ground Surface Elev. 453.4 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encountar No Data ft
▽ Upon Completion N/A ft
▼ After ___ Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	
412.40				Grey Medium SAND w/Some 14" to 1/2" Gravel (continued)
				Grey Coarse SAND w/Some 14" Gravel
	5			
	8			GRADATION P6-G4
	10			
-45				
407.40				
	8			Begin 11-30-07 Tan Fine SAND w/Some 12" Gravel
	12			GRADATION P6-G5
	13			
-50				
399.40				
				Grey Medium SANDY GRAVEL
-55				
	7			
	8			GRADATION P6-G6
	6			
-60				

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	
				Grey Medium SANDY GRAVEL (continued)
389.40				
				Grey Fine SAND
-65				
	10			
	12			GRADATION P6-G7
	19			
-70				
381.40				
380.90				LIMESTONE
				Borehole continued with rock coring.
-75				
-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)

File Name S:\DOCUMENT FILES\CAMPS & TR AT SANGAMON RIVER\BORI Date Template DOT2MAT1.DGN Date Printed 9/29/08
Latitude 40°05.555N Longitude 89°53.888W Datum NAD83 Job Number 2-08-059-07

Illinois Department of Transportation
Division of Highways
District 6

ROCK CORE LOG

Page 3 of 3

Date 11-29-07
11-30-07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason CORING METHOD Double Barrel – Drilling Mud Flush

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

CORING BARREL TYPE & SIZE BWD4
Core Diameter 1.61 in
Top of Rock Elev. 381.40 ft
Begin Core Elev. 380.90 ft

BORING NO. 0510-P6 Pier 6
Station 914+17
Offset 8.0ft LT
Ground Surface Elev. 453.4 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)	
380.90						Light Grey Crystalline LIMESTONE
	1	98	57		668	w/Some 1" Chert Seams Open Joints Spaced 2" to 12"
-75						
	2	100	92		410	
					518	
373.90						
373.70						Light Blue Grey Very Poorly Indurated Clayey SHALE (Core Barrel Plugged – Pulled and Cleaned Barrel)
-80	3	79	100			Light Grey Crystalline LIMESTONE Open Joints Spaced 1 ft to 3 ft
					535	
-85	4	100	21		879	
367.60						Grey Well Indurated Crystalline LIMESTONE with 1/2" to 8" Grey Moderately Indurated Blocky Chert Seams Closed Joints Spaced 1" to 3" Filled with Weathered Limestone Residue and Chert (Chert seams are heavily fractured possibly due to coring action.)
354.10						
-90						

Color pictures of the cores Yes, On File
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run

BBS, form 138 (Rev. 8-99)

ROCK CORE IL 78 AT SANGAMON RIVER\BORI DOT2MAT1.DGN Date Printed 9/29/08

BORINGS (SHEET 8)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

Mon 3/2009 09:04:54 AM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	217
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 81
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 10/19/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr 009-0005 Ex
Station 913+16

BORING NO. 0510-P7 Pier 7
Station 915+11
Offset 0.0ft
Ground Surface Elev. 451.6 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 441.6 ft
▽ Upon Completion N/A ft
▽ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
	0		
-5	3 3	2.0 B	33
	1		
	2 5	2.7 S-12	22
	1		
	2 3	2.0 B	24
	1		
-10	1 3	1.4 B	30
	0		
	1 1		
	0		
-15	0 0		
	1		
	1 1		
	1		
-20	1 2		

Very Dark Grey Moist CLAY
CLASSIFICATION P7-1
89% Passing #200
46% Clay /43% Silt/11% Sand
LL=53 PI=31

Light Brown and Dark Grey

Brown and Grey

▽ 441.60

Grey Fine to Medium SAND
Free Water

Tan Fine

Grey Fine to Medium
(Washed)

433.60

Grey SANDY GRAVEL

Fine (Washed)

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
	1		
-25	2 5		
	1		
-30	3 5		
	0		
-35	0 0		
	1		
-40	1 2		

Grey SANDY GRAVEL
(continued)

Fine (Washed)

Fine (Washed)

Fine Sandy Gravel
(Washed)

Grey Medium Sandy Gravel
(Washed)

Medium Sandy Gravel w/Grey
Fine Sand
(Washed)

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
	1		
	2 4		
	1 5		
	2 5		
-45	4 4		
	5		
-50	4 5		
	6		
-55	5 6		
	15		
-60	16 19		

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)

File Name S:\DOS\Eight FILES\CASS\L 78 AT SANGAMON RIVER\BH\ Data Template DATSAVE1.DOT Data Points 05/08
Latitude 40°08'33.00N Longitude 89°55.88W Datum NAD83 Job Number D-95-005-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 10/19/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr 009-0005 Ex
Station 913+16

BORING NO. 0510-P7 Pier 7
Station 915+11
Offset 0.0ft
Ground Surface Elev. 451.6 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 441.6 ft
▽ Upon Completion N/A ft
▽ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
	8		
-65	4 4		
	40		
-70	100/2"		
-75	3 3		
-80	4 4		

Grey SANDY GRAVEL
(continued)

Grey Medium (Washed)

(Washed)

Grey Fine Sandy Gravel
(Washed)

Grey Medium Sandy Gravel
(Washed)

w/Light Brown Cherty Limestone 382.10

Drilled "Crunchy" Assumed
Broken LIMESTONE
380.60

Drilled Very Stiff
Sheared Augers at 40* ft Last 6
Sections
379.10

Abandoned Hole – Boring
Completed

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)

File Name S:\DOS\Eight FILES\CASS\L 78 AT SANGAMON RIVER\BH\ Data Template DATSAVE1.DOT Data Points 05/08
Latitude 40°08'33.00N Longitude 89°55.88W Datum NAD83 Job Number D-95-005-07

BORINGS (SHEET 9)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

Mon 31 2009 08:04:59 AM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	218
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 82
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 10/30/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr 009-0005 Ex
Station 913+16

BORING NO. 0510-P8 Pier 8
Station 916+56
Offset 0.0ft
Ground Surface Elev. 449.5 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 440.5 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				Brown and Very Dark Grey Moist CLAY (Refer Class P7-1)
	2			
	3	1.4	29	
	2	S-10		
	2			
-5	4	3.5	23	
	5	B		
	1			
	2	1.7	26	Brown and Grey
	3	B		
440.50 ▽				
	1			Grey Medium SAND
-10	2			Free Water
	3			
	1			
	2			
	2			
	5			
-15	3			Medium to Coarse (Washed)
	2			
	1			
	2			Medium Sand (Washed)
	3			
	0			
-20	2			(Washed)
	2			Grey Medium Sand (continued)
	5			
	3			Medium to Coarse (Washed)
	2			
	2			
-25	7			Medium to Coarse Sand (Washed)
	8			
	2			
	5			Fine to Medium Sand
	9			Begin Rotary Mud Drilling
				Adjusted Sample Interval
-30				
	7			
	13			Medium Sand w/Some Sandy Gravel
415.50	16			
				Grey SANDY GRAVEL
-35				
	3			
	6			Fine Sandy Gravel
	9			
-40				

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)

File Name: S:\SOILS\SURF FILES\CASS\IL 78 AT SANGAMON RIVER\SR1 Date Template: 09TEMPLT.DGN Date Printed: 10/30/08
Latitude: 40°02.376'N Longitude: 89°55.626'W Datum: NAD83 Job Number: P-98-056-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 10/30/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr 009-0005 Ex
Station 913+16

BORING NO. 0510-P8 Pier 8
Station 916+56
Offset 0.0ft
Ground Surface Elev. 449.5 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 440.5 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)	Description
				Grey SANDY GRAVEL (continued)
	7			
	6			Medium Sandy Gravel
	6			
-45				
403.50				Grey Fine to Medium SAND
	20			
	29			
	44			
-50				
	3			
	6			
	6			
-60				
				Grey Medium SANDY GRAVEL (continued)
-65				
				Grey Medium to Coarse Sand w/ Greyish Brown Crystalline Limestone
381.50	8			
	100/1"			Grey Crystalline LIMESTONE (chips)
-70				
377.50	100/1"			
				Boring Completed
-75				
-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)

File Name: S:\SOILS\SURF FILES\CASS\IL 78 AT SANGAMON RIVER\SR2 Date Template: 09TEMPLT.DGN Date Printed: 10/30/08
Latitude: 40°02.376'N Longitude: 89°55.626'W Datum: NAD83 Job Number: P-98-056-07

BORINGS (SHEET 10)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	219
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 83
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 11/6/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P9 Pier 9
Station 918+01
Offset 0.0ft
Ground Surface Elev. 451.6 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 441.6 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Grey Moist CLAY Refer Class P7-1			
	1		
	2	1.6	31
	3	B	
	1		
	2	2.0	27
-5	4	B	
	1		
Light Brown and Grey	2	1.5	27
	3	B	
	1		
▽ 441.60	2	1.0	29
-10	3	B	
Grey SAND Free Water	0		
Coarse	1		
	1		
	1		
Medium	2		
-15	2		
	0		
Fine Sand (Washed)	1		
	2		
	1		
Medium (Washed)	4		
-20	4		

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey SAND (continued)			
	5		
Medium Sand w/Some Pea Gravel (Washed)	4		
	3		
	9		
Medium (Washed)	7		
-25	8		
425.60			
Grey Medium SANDY GRAVEL			
	5		
Begin Mud Rotary Drilling Adjusted Sample Interval	4		
	6		
-30			
	4		
	12		
	10		
	9		
-35			
	3		
Grey Medium Sandy Gravel With Some 1" Gravel	5		
	7		
411.60 -40			

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)

File Name S:\DOS\LOGS\FLEX\CASS9_19 AT SANGAMON RIVER.GPJ Date Template ENTERA.7.GDT Date Printed 10/30/08
Latitude 40°02'28N Longitude 89°56'28W Datum NAD83 Job Number P-96-045-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 11/6/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P9 Pier 9
Station 918+01
Offset 0.0ft
Ground Surface Elev. 451.6 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 441.6 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SAND			
	5		
Grey Fine to Medium Sand	9		
	10		
-45			
	12		
Light Brown Fine to Medium Sand	8		
	7		
-50			
-55			
	12		
Grey Medium to Coarse Sand With Some 1" Gravel	8		
	7		
-60			

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SAND (continued)			
388.60			
Grey Medium SANDY GRAVEL			
-65			
	10		
	4		
	7		
382.60			
Light Grey Well Indurated Crystalline LIMESTONE Rotary Drilled *0.7' in 20 minutes. 381.60 -70	100/1"		
Boring Completed			
-75			
-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)

File Name S:\DOS\LOGS\FLEX\CASS9_19 AT SANGAMON RIVER.GPJ Date Template ENTERA.7.GDT Date Printed 10/30/08
Latitude 40°02'28N Longitude 89°56'28W Datum NAD83 Job Number P-96-045-07

BORINGS (SHEET 11)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

Mon 3/2009 09:05:09 AM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	220
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 84
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 11/9/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P10 Pier 10
Station 919+46
Offset 0.0ft
Ground Surface Elev. 451.9 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 440.9 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Grey Moist CLAY			
Refer Class P7-1			
	1		
	2	3.1	25
	4	B	
	2		
With Concrete	100/3"	1.8	28
-5		B	
	2		
Very Dark Gry Moist Clay	2	1.3	28
	3	B	
	2		
Grey Moist Clay w/Orange	2	1.0	29
Oxidation Spots	2	B	
-10			
▽ 440.90			
Grey Very Moist CLAY LOAM	1		
CLASSIFICATION P10-1*	1	0.5	25
Free Water	1	B	
439.40			
Grey SAND			
	1		
Fine	1		
-15	1		
	1		
Medium (Washed)	1		
	2		
	1		
432.90			
Grey Very Moist SILTY CLAY	0	0.1	32
-20	0	P	

DEPTH (ft)	BLOWS /6"
Grey Very Moist SILTY CLAY	
(continued)	
431.40	
Grey SAND	
	3
Coarse w/Some 1/4" Pea Gravel	5
(Washed)	6
	1
Medium (Washed)	2
-25	3
	6
Grey Fine Sandy Gravel	5
Begin Rotary Mud Drilling	9
Adjusted Sample Interval	
-30	
	7
Grey Medium to Coarse Sand	7
w/Some 1/4" Pea Gravel	9
-35	
	4
Grey Medium to Coarse Sand w/	6
Some 1/4" Pea Gravel	8
-40	

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)

File Name S:\SOILSCONT FILES\CASS\IL 78 AT SANGAMON RIVER\LOG Data Template DISTSAM1.DGT Date Printed 11/9/07
Latitude 40°02'00" Longitude 89°54'00" Datum NAD83 Job Number D-48-306-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 11/9/07

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P10 Pier 10
Station 919+46
Offset 0.0ft
Ground Surface Elev. 451.9 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 440.9 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey SAND (continued)			
	4		
Grey Fine to Medium Sand	11		
	16		
-45			
405.90			
Grey Moist SILT			
	31		
	13	1.4	24
	10	B	
401.90			
-50			
Grey SAND			
-55			
	4		
Coarse Sand with Some 1/4" Pea	11		
Gravel	10		
-60			

DEPTH (ft)	BLOWS /6"
Grey SAND (continued)	
Assumed Limestone Cobble	
-65	
	2
Medium Sand	5
	8
-70	
380.40	
Light Grey Well Indurated	
Crystalline LIMESTONE	100/1"
(Poor Recovery – Light Grey	
Crystalline Chips in Return Mud)	
Rotary Drilled 0.4 ft in 17 minutes	
Boring Completed	
*CLASSIFICATION P10-1	
65% Passing #200	
20% Clay /45% Silt/35% Sand	
LL=25 PI=9	
-75	
-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)

File Name S:\SOILSCONT FILES\CASS\IL 78 AT SANGAMON RIVER\LOG Data Template DISTSAM1.DGT Date Printed 11/9/07
Latitude 40°02'00" Longitude 89°54'00" Datum NAD83 Job Number D-48-306-07

BORINGS (SHEET 12)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

Mon 3/2009 08:05:54 AM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	221
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 85
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 111507

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P11 Pier 11
Station 920+91
Offset 0.0ft
Ground Surface Elev. 462.9 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 440.9 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
Very Dark Grey Moist CLAY			
Refer Class P7-1			
	1		
	2	1.7	36
	4	B	
	1		
-5 Brown and Grey	3	1.6	24
	4	B	
445.90	1		
SAND	2		
Tan Fine Moist	3		
	2		
-10 Tan and Grey Moist	2		
	2		
	1		
Grey Fine to Medium Sand	1		
Free Water	1		
	0		
-15	1		
	1		
	0		
Grey Medium to Coarse Sand	0		
(Washed)	1		
	5		
-20 (Washed)	4		

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
SAND (continued)	4		
	2		
Grey Coarse Sand (Washed)	7		
	10		
	17		
-25 Grey Coarse Sand (Washed)	45		
	545*		
	2		
Grey Medium Sandy Gravel	14		
Begin Mud Rotary Drilling	14		
Adjusted Sample Interval			
-30			
	3		
Grey Medium to Coarse Sand	5		
w/Some 1/4" Pea Gravel	9		
-35			
	3		
Grey Fine Sand	14		
	29		
-40			

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)

File Name S:\ENGLISH\ FILES\CASS\IL 78 AT SANGAMON RIVER\BRO Date Template: DOTSMT1.DOT Date Printed: 9/29/09
Latitude: 40°12'48.81" Longitude: 89°56'48.85" Datum: NAD83 Job Number: D-91-099-07

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 111507

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 14, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-P11 Pier 11
Station 920+91
Offset 0.0ft
Ground Surface Elev. 462.9 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 440.9 ft
▽ Upon Completion N/A ft
▼ After Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
SAND (continued)			
	6		
Grey Fine to Medium Sand	7		
	8		
-45			
408.90			
SANDY GRAVEL			
	4		
Grey Medium Sandy Gravel	7		
	8		
-50			
398.90			
SAND			
-55			
	2		
Grey Medium Sand	2		
	3		
-60			

DEPTH (ft)	BLOWS /6"	UCS Qu (taf)	MOIST (%)
SAND (continued)			
-65			
	4		
Grey Coarse Gravel	10		
Broke Adaptor Pipe – Adjusted	6		
Sample Interval			
382.90 -70			
Grey Very Well Indurated			
Crystalline LIMESTONE			
w/2" Grey Sandy Shale Seam			
Rotary Drilled 1.6' in 16 minutes			
380.90	100/3"		
Boring Completed			
-75			
-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)

File Name S:\ENGLISH\ FILES\CASS\IL 78 AT SANGAMON RIVER\BRO Date Template: DOTSMT1.DOT Date Printed: 9/29/09
Latitude: 40°12'48.81" Longitude: 89°56'48.85" Datum: NAD83 Job Number: D-91-099-07

BORINGS (SHEET 13)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP Rte 614	144(B-1)	Cass & Mason	351	222
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 86
86 SHEETS

Contract #72A76

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 2

Date 11/2007

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-S S. Abut.
Station 922+36
Offset 12.0ft RT
Ground Surface Elev. 452.3 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 443.3 ft
▽ Upon Completion N/A ft
▼ After ____ Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Very Dark Grey Moist CLAY Refer Class P7-1			
	2		
	3	1.7	35
	4	B	
	1		
Light Brown and Grey	2	1.1	22
-5	4	B	
446.30			
Tan and Grey Moist SAND LOAM	1		
	1	0.5	16
	2	S-12	
▽ 443.30	0		
SAND	1		
Free Water -10	1		
Brown Fine			
	0		
Brown Fine Sand	1		
	1		
	0		
Grey Medium Sand	0		
-15	1		
	1		
(Washed)	1		
	2		
	0		
Grey Fine Sand (Washed)	1		
-20	1		

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SAND (continued)			
	0		
Grey Medium Sand (Washed)	1		
	2		
	1		
(Washed)	2		
-35	5		
	6		
Grey Coarse Sand with Some Pea Gravel	6		
	8		
Begin Mud Rotary Drilling			
Adjusted Sample Interval			
-30			
	7		
Grey Medium Sand	15		
	10		
-35			
	4		
Grey Fine to Medium Sand	5		
	8		
-40			

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)

File Name S:\SOILS\SHT FILES\CASS\IL 78 AT SANGAMON RIVER.BGP Data Template DOTSAM.V.1.GDT Date Printed 9/29/08
Latitude 40°12'31.78" Longitude 89°52'14.64" Datum NAD83 Job Number 2-08-022-27

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 2 of 2

Date 11/2007

ROUTE FAP 614 (IL 78) DESCRIPTION IL 78 Over the Sangamon River LOGGED BY M. Tappan

SECTION 144(B-1) LOCATION SE 1/4, SEC. 30, TWP. 19 N, RNG. 9 W, 3 PM

COUNTY Cass and Mason DRILLING METHOD HSA/Rotary HAMMER TYPE Auto

STRUCT. NO. 009-0510 Pr / 009-0005 Ex
Station 913+16

BORING NO. 0510-S S. Abut.
Station 922+36
Offset 12.0ft RT
Ground Surface Elev. 452.3 ft

Surface Water Elev. 442.1 (Nov.) ft
Stream Bed Elev. 436* ft

Groundwater Elev.:
▽ First Encounter 443.3 ft
▽ Upon Completion N/A ft
▼ After ____ Hrs. Plugged ft

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
SAND (continued)			
	6		
Grey Fine Sandy Gravel	5		
	7		
-65			
	1		
Grey Medium Sand with Some 1/2" Pea Gravel	3		
	8		
-60			
▽ 387.30 -65			
Grey Medium SANDY GRAVEL			
	2		
	3		
	9		
-80			

DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
Grey Medium SANDY GRAVEL (continued)			
-85			
388.30			
Light Grey Well Indurated Crystalline LIMESTONE No Recovery in Last Sample – Light Grey Limestone Chips in Return Mud Rotary Drilled 1.2 ft in 16 Minutes Boring Completed	100/1"		
384.90			
-70			
-75			
-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)

File Name S:\SOILS\SHT FILES\CASS\IL 78 AT SANGAMON RIVER.BGP Data Template DOTSAM.V.1.GDT Date Printed 9/29/08
Latitude 40°12'31.78" Longitude 89°52'14.64" Datum NAD83 Job Number 2-08-022-27

BORINGS (SHEET 14)
F.A.P. 614 (IL 78) OVER SANGAMON RIVER
PUBLIC WATERS
CASS & MASON COUNTIES
SECTION 144 (B-1)
STA. 913+26.00
STRUCTURE NUMBER 009-0510

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026

DATE 03/27/09

LAYOUT	TEH	09/12/08
DRAWN	BWC	09/30/08
REVIEWED	TEH	09/30/08

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BM TJM, #4 : Set a chiseled "□" in top of N.W. Abut. Wing Wall of bridge #009-0006; on IL 78, 0.47 miles North of Illini St. in Chandlerville, Bridge over Sangamon River overflow, NAVD 88 Elev. = 464.94 Ft.

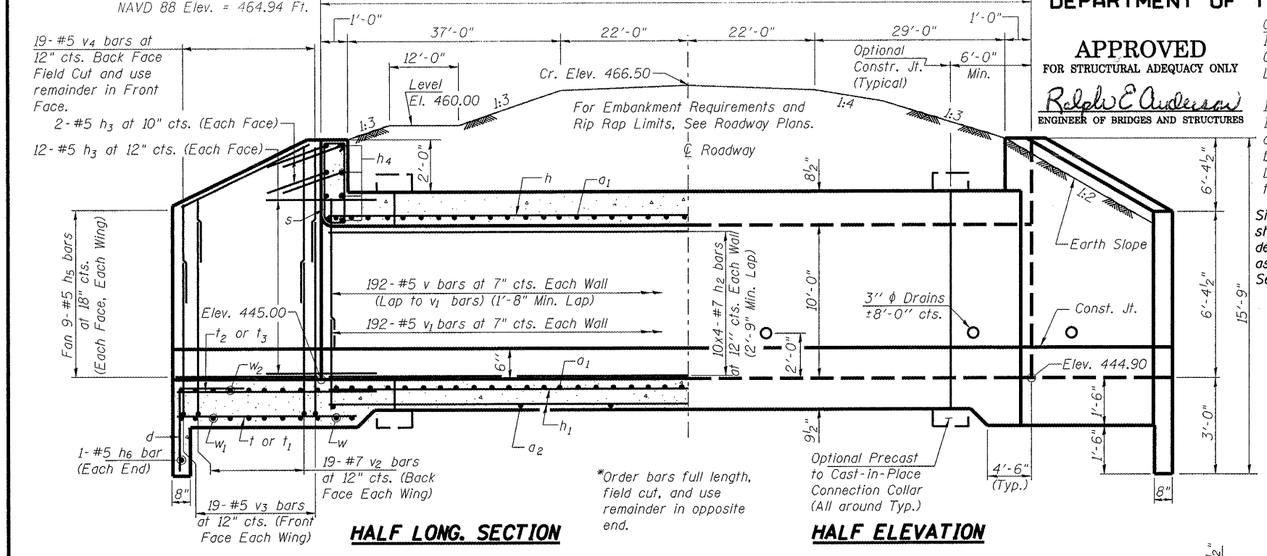
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E Anderson
ENGINEER OF BRIDGES AND STRUCTURES

Current Ratings (9/22/08) on File for Existing Structure No. 009-0006
Inventory: HS 6
Operating: HS 10
Live Load Restrictions: No

Inventory and Operating Ratings are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration using the load factor method. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and the Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equipment.

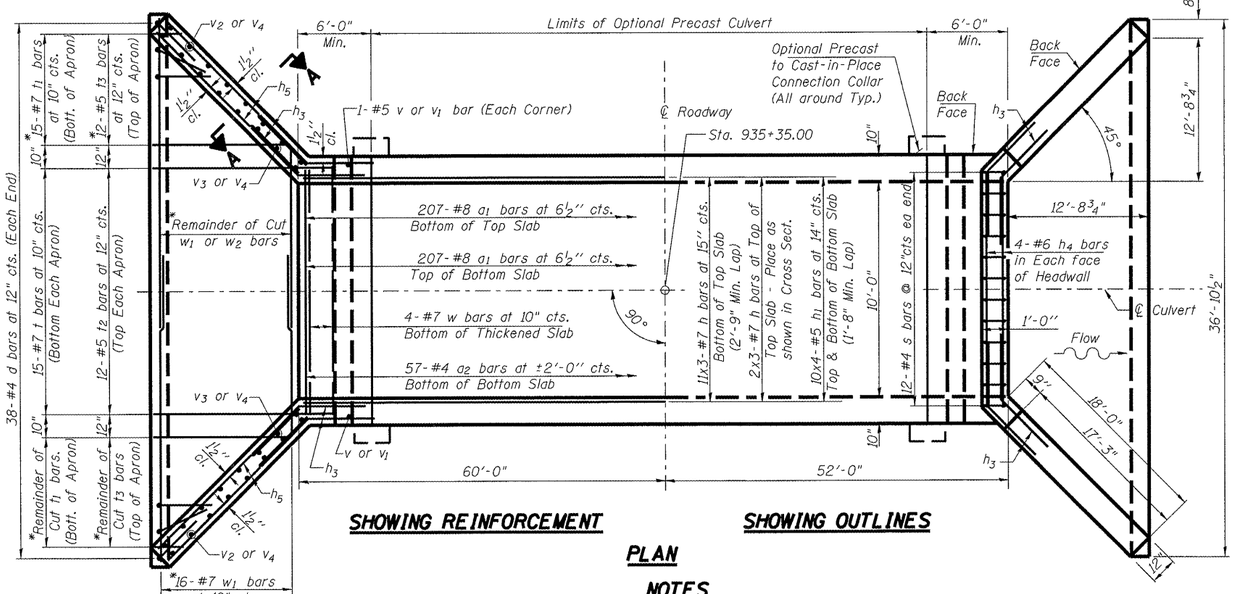
Since the above rating was calculated, a contract has been let to place shoring under the most severely deteriorated precast prestressed concrete deck beams. The Contractor shall submit Structural Assessment Report(s) as required for Contractor's means and methods of construction. See Special Provisions.



HALF LONG. SECTION

*Order bars full length, field cut, and use remainder in opposite end.

HALF ELEVATION



SHOWING REINFORCEMENT

SHOWING OUTLINES

PLAN

NOTES

Stage Construction of the culvert will not be allowed.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Reinforcement Bars shall conform to the requirements of ASTM A-706 Gr. 60. See Special Provisions.

Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

All construction joints shall be bonded.

All reinforcement bar quantities and lengths assume the Contractor will construct the Cast-in-Place Concrete Culvert. If the Precast Concrete Culvert option is chosen, the Contractor must revise the reinforcement quantities, including Precast to Cast-in-Place Connection Collars, at his own expense.

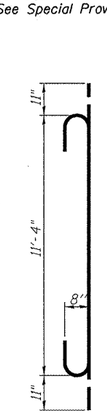
Removal and Replacement of weak soils with Rockfill-Foundation may be required beneath the culvert. The Engineer will determine the required depth following excavation to plan grade.

Fill around culvert should consist of unrestricted soil. See Roadway Plans.

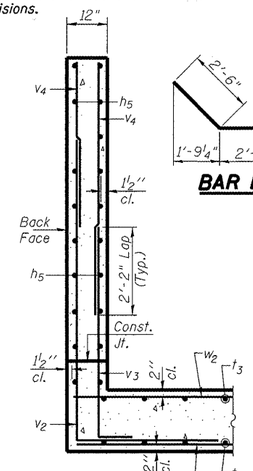
DESIGN STRESSES

fy = 60,000 psi
f'c = 3,500 psi

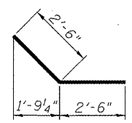
LOADING HS 20-44 & ALT.



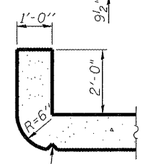
BAR a1



SECTION A-A

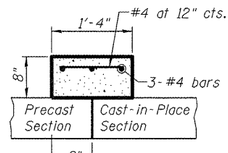


BAR h5



SECTION THRU HEADWALL

(Up Stream End Only)



OPTIONAL PRECAST TO CAST-IN-PLACE CONNECTION COLLAR

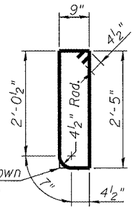
Bar	Number	'A'	'B'	'C'	'D'
t1	15	10"	12'-6"	12'-6"	10"
t3	12	1'-3"	12'-3"	12'-3"	1'-3"
v4	19	4'-5"	8'-7"	10'-9"	2'-3"
w1	16	7'-7"	20'-1"	20'-1"	7'-7"
w2	13	7'-6"	19'-6"	19'-6"	7'-6"

FIELD CUTTING DIAGRAM

Order t1, t3, v4, w1 or w2 full length. Cut as shown and use remainder of bars in opposite end.

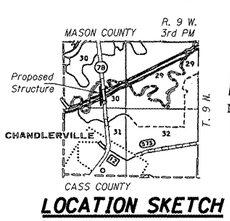
BARS d, v2 & v3

Bar	'E'	'F'
d	2'-8"	1'-9"
v2	7'-4"	3'-0"
v3	5'-2"	10"



BAR s

Upstream bar shown Downstream bars may have 4 90° corner bends.



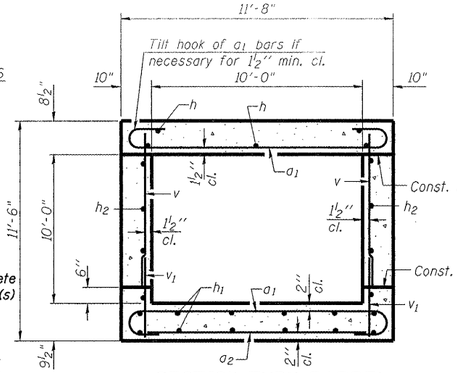
LOCATION SKETCH

THOMAS E. HANSON
061-004732
LICENSED STRUCTURAL ENGINEER OF
SPRINGFIELD
ILLINOIS

DATE SIGNED : 3/27/09
LIC. EXP. DATE : 11/30/2009

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a1	414	#8	13'-2"	
a2	57	#4	10'-10"	
d	76	#4	4'-5"	
h	39	#7	39'-3"	
h1	80	#5	29'-3"	
h2	80	#7	30'-0"	
h3	112	#5	5'-0"	
h4	16	#6	10'-8"	
h5	72	#5	17'-9"	
h6	2	#5	36'-6"	
s	24	#4	6'-11"	
t	30	#7	17'-0"	
t1	30	#7	13'-4"	
t2	24	#5	17'-0"	
t3	24	#5	13'-6"	
v	388	#5	10'-0"	
v1	388	#5	2'-10"	
v2	76	#7	10'-4"	
v3	76	#5	6'-0"	
v4	76	#5	13'-0"	
w	8	#7	11'-4"	
w1	32	#7	27'-8"	
w2	26	#5	27'-0"	
Removal of Existing Structure No. 3		Each	1	
Asbestos Bearing Pad Removal		Each	240	
Concrete Box Culverts		Cu. Yd.	210.4	
Reinforcement Bars		Pound	41680	
Rockfill-Foundation		Ton	300	



SECTION THRU BARREL

GENERAL PLAN
F.A.P. 614 (IL 78) OVER SANGAMON RIVER OVERFLOW
SECTION 144 (B-1)
CASS COUNTY
STA. 935+35.00
STRUCTURE NUMBER 009-2509

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO.	SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
07S2026	1	614	144(B-1)	Cass	351	223
DATE 03/27/09	4 SHEETS			CONTRACT NO. 72A76		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LAYOUT	TEH	01/06/09
DRAWN	Rod	01/12/09
REVIEWED	MNM	01/13/09

03/27/2009
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1
Date 11/14/07

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY M. Tappan

SECTION 144 (B-1) LOCATION SE 1/4, SEC. 30, TWP. 19N, RNG. 9W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.
Station

BORING NO. 926
Station 926+00
Offset 15.0ft RT
Ground Surface Elev. 453.9 ft

Surface Water Elev. N/A ft
Stream Bed Elev. N/A ft

Groundwater Elev.:
▽ First Encounter 443.8
▽ Upon Completion Washed
▼ After Hrs. Plugged
Boring Complete

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
V. Dark Gray Moist SILTY CLAY			2 3 6	1.8 B	36
V. Dark Gray to Brown and Gray Moist SILTY CLAY			1 2 3	0.7 B	21
Tan Moist Fine to Med SAND	447.40				
			1 3 3		
Brown Wet Med SAND ▽ Free Water			3 6 6		
Fine SAND			1 1 1		
Gray Med SAND			0 0 1		
Washed			1 2 4		
Gray Coarse SAND Washed	438.90		1 2 2		

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 127 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1
Date 12/4/08

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY M. Tappan

SECTION 144 (B-1) LOCATION SE 1/4, SEC. 30, TWP. 19N, RNG. 9W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 009-0006 (Rt) 009-2509 (Pr)
Station 926+35

BORING NO. 931+49
Station 931+49
Offset 20.0ft LT
Ground Surface Elev. 447.6 ft

Surface Water Elev. No Data
Stream Bed Elev. No Data

Groundwater Elev.:
▽ First Encounter 440.8
▽ Upon Completion Washed
▼ After Hrs. Plugged
Boring Complete

Description	Elev.	DEPTH (ft)	BLOWS /6"	UCS Qu (tsf)	MOIST (%)
V. Dark Gray Moist SILTY CLAY Rock in Sample, Poor Recovery			2 6 5		28
Dark Gray			3 3 3	1.1 B	25
Gray Med SAND ▽ Free Water	440.60		1 2 3		
w/Pea Gravel Washed			1 1 1		
			1 1 0		
			2 2 2		
Gray Med to Coarse SANDY GRAVEL			3 2 1		
			4 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 127 (Rev. 8-99)

BORINGS (Sheet 1 of 3)
F.A.P. 614 (IL 78) OVER
SANGAMON RIVER OVERFLOW
SECTION 144 (B-1)
CASS COUNTY
STA. 935+35.00
STRUCTURE NUMBER 009-2509

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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JOB NO.	SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
07S2026	2	614	144(B-1)	Cass	351	224
DATE 03/27/09	4 SHEETS			CONTRACT NO. 72A76		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LAYOUT	Rod	02-26-09
DRAWN	Rod	02-26-09
REVIEWED	TEH	02-26-09

Mar-31-2009 08:05:31AM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 1/22/79

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY D. Bruns

SECTION 144 (B-1) LOCATION SE 14, SEC. 30, TWP. 18N, RNG. 8W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Manual

STRUCT. NO. 009-0006
Station 935+35

BORING NO. 1979-1 S. Abut
Station 935+34
Offset 65.0ft. LT
Ground Surface Elev. 464.5 ft.

Surface Water Elev. No Data
Stream Bed Elev. No Data

Groundwater Elev.:
▽ First Encounter 441.5
▽ Upon Completion No Data
▼ After Hrs. No Data

DEPTH (ft)	BLOWS /ft	UCS Qu (tsf)	MOIST (%)
Yellow-Brown & Black SILTY CLAY (FILL) Moist (Hard)			
	15	4.5 P	20
Black SILTY CLAY (FILL) 459.50 -5 Moist (Very Stiff)			
	13	2.4 P	24
Yellow-Brown & Black SILTY CLAY (FILL) 454.00 Moist (Stiff)	15	1.5 B	22
	10	1.5 P	25
Gray & Black CLAY (FILL) 451.00 Moist (Medium)	11	1.0 B	29
Dark Gray CLAY 448.50 -15 Moist (Stiff)	10	1.0 S	26
Dark Gray CLAY 443.50 Moist (Medium)	10	1.0 S	25
			-30

DEPTH (ft)	BLOWS /ft	UCS Qu (tsf)	MOIST (%)
Dark Gray & Brown CLAY (TILL) 444.00 Moist (Stiff)	15	1.5 B	23
Free Water ▽ 441.50 Gray CLAY Wet (Soft) w/some Organic Material	8	0.5 P	34
	20		
Gray SILTY CLAY (Organic) 430.50 Very Moist (Soft) w/Sand Thru.	4	0.5 P	48
Brown and Gray SAND (Medium) 427.00 Wet (Medium)	15		
	20		
Gray	15		
	25		
Brown and Gray Auger Sample	19		
	30		
Auger Sample			
434.50 -40			

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) ESS, from 127 (Rev. 8-99)

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Date 1/22/79

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY D. Bruns

SECTION 144 (B-1) LOCATION SE 14, SEC. 30, TWP. 18N, RNG. 8W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Manual

STRUCT. NO. 009-0006
Station 935+35

BORING NO. 1979-1 S. Abut
Station 935+34
Offset 65.0ft. LT
Ground Surface Elev. 464.5 ft.

Surface Water Elev. No Data
Stream Bed Elev. No Data

Groundwater Elev.:
▽ First Encounter 441.5
▽ Upon Completion No Data
▼ After Hrs. No Data

DEPTH (ft)	BLOWS /ft	UCS Qu (tsf)	MOIST (%)
Brown SAND (Fine) Wet (Dense)			
	50		
Brown SAND (Fine) 431.50 Wet (Very Dense) Auger Sample			
	45		
	70		
Auger Sample			
	28		
413.00	99		
Boring Completed			
			-50

Note: BM#1 – Chiseled square on NW abutment of bridge located at approximately Station 939+02, Elev. 464.94

Note: Original boring offset adjusted to reflect 2009 realignment of IL. 78. No 1979 auger sample data is available.

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) ESS, from 127 (Rev. 8-99)

BORINGS (Sheet 2 of 3)
F.A.P. 614 (IL 78) OVER
SANGAMON RIVER OVERFLOW
SECTION 144 (B-1)
CASS COUNTY
STA. 935+35.00
STRUCTURE NUMBER 009-2509

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

SHEET NO. 3
4 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	Cass	351	225
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LAYOUT	Rod	02-26-09
DRAWN	Rod	02-26-09
REVIEWED	TEH	02-26-09

Mar-31-2009 09:05:35 AM
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Illinois Department of Transportation
Division of Highways
District 6

Page 1 of 2

SOIL BORING LOG

Date 2/4/79

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY D. Bruns

SECTION 144 (B-1) LOCATION SE 14, SEC. 30, TWP. 18N, RNG. 8W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Manual

STRUCT. NO. 009-0006
Station 935+35

BORING NO. 1979-3 N. Abut
Station 935+34
Offset 93.0ft. LT
Ground Surface Elev. 451.6 ft.

Surface Water Elev. No Data
Stream Bed Elev. No Data

Groundwater Elev.:
▽ First Encounter No Encounter
▽ Upon Completion No Data
▽ After Hrs. No Data

DEPTH (ft)	BLOWS /ft	UCS Qu (tsf)	MOIST (%)
Gray V. Moist SILTY CLAY			
	14	1.5 B	25
	15	1.5 P	30
Gray Moist CLAY 440.60	9	1.0 S	25
	13		
Gray Wet Fine SAND 440.60	15		
Gray Wet Fine SAND 426.60	9		
Gray Wet Fine SAND 426.10	13		
	15		
	20		

DEPTH (ft)	BLOWS /ft	UCS Qu (tsf)	MOIST (%)
Gray Wet Fine SAND (continued) 421.10			
Gray Wet Med. to Coarse SAND	9		
Gray Wet Med. to Coarse SAND 406.60 -45	26		
	30		
	21		
	25		
401.60 -49			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Ridge, 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) HSS, from 127 (Rev. 8-80)

Illinois Department of Transportation
Division of Highways
District 6

Page 2 of 2

SOIL BORING LOG

Date 2/4/79

ROUTE FAP 614 DESCRIPTION IL 78 over Big Lake LOGGED BY D. Bruns

SECTION 144 (B-1) LOCATION SE 14, SEC. 30, TWP. 18N, RNG. 8W, 3 PM

COUNTY Cass DRILLING METHOD HSA HAMMER TYPE 140# Manual

STRUCT. NO. 009-0006
Station 935+35

BORING NO. 1979-3 N. Abut
Station 935+34
Offset 93.0ft. LT
Ground Surface Elev. 451.6 ft.

Surface Water Elev. No Data
Stream Bed Elev. No Data

Groundwater Elev.:
▽ First Encounter No Encounter
▽ Upon Completion No Data
▽ After Hrs. No Data

DEPTH (ft)	BLOWS /ft	UCS Qu (tsf)	MOIST (%)
Brown Wet Fine SAND			
	23		
Brown Wet Fine SAND and GRAVEL 406.60 -45			
	64		
	75		
Boring Complete 400.10			
Offset Adjusted to Current Proposed Center Line			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Ridge, 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) HSS, from 127 (Rev. 8-80)

BORINGS (Sheet 3 of 3)
F.A.P. 614 (IL 78) OVER
SANGAMON RIVER OVERFLOW
SECTION 144 (B-1)
CASS COUNTY
STA. 935+35.00
STRUCTURE NUMBER 009-2509

PROFESSIONAL DESIGN FIRM LICENSE #184-001084

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HANSON
Hanson Professional Services Inc.

JOB NO. 07S2026
DATE 03/27/09

SHEET NO. 4
4 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	Cass	351	226
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LAYOUT	Rod	02-26-09
DRAWN	Rod	02-26-09
REVIEWED	TEH	02-26-09

Mon 3-2009 09:05:40AM
c:\dw...ww\KPW\DOT\JAG\HJWR\od\144B009-2509 Master Sheet F1.dgn

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

475
470

EX ROW

EX ROW

SD = 470.50

853 + 00.00

475
470

EX ROW

EX ROW

852 + 00.00

475
470

480
475
470

EX ROW

EX ROW

851 + 00.00

480
475
470

EX ROW

EX ROW

850 + 00.00

480
475
470

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

FINAL SURVEY
NOTE BOOK
NO.

ORIGINAL SURVEY
NOTE BOOK
NO.

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	PLOT DATE = Mar-31-2009 08:07:34AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 850+00.00 TO STA. 853+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	227
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

480 475 470 465

EX ROW

S-2

S-2
C = 25
F = 8

S-1

S-1
C = 17
F = 11

EX ROW

469.38 469.55 469.34

3.8 %

-1.50 %

-1.50 %

0.1 %

1:4 1:4

15" DIA
FL = 467.5

1:4 1:4

15" DIA
FL = 467.00

855 + 00.00

480 475 470 465

EX ROW

S-2

S-2
C = 24
F = 8

S-1

S-1
C = 16
F = 12

EX ROW

469.59 469.76 469.59

0.9 %

-1.50 %

-1.50 %

0.2 %

1:4 1:4

15" DIA
FL = 467.58

1:4 1:4

15" DIA
FL = 467.16

854 + 85.00

480 475 470 465

EX ROW

S-2

S-2
C = 30
F = 14

S-1

S-1
C = 19
F = 1

EX ROW

470.22 470.39 470.24

0.9 %

-1.50 %

-1.50 %

1:4 1:4

15" DIA
FL = 467.81

1:4 1:3

SD = 467.67

854 + 38.00

480 475 470 465

EX ROW

S-2

S-2
C = 21
F = 1

S-1

S-1
C = 1
F = 2

EX ROW

470.72 470.91 470.74

1:4 1:4

SD = 468.00

1:4

SD = 469.00

854 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY	NO.	BY	DATE
NOTE BOOK			
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			

ORIGINAL SURVEY	NO.	BY	DATE
NOTE BOOK			
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AREAS			
AREAS CHECKED			

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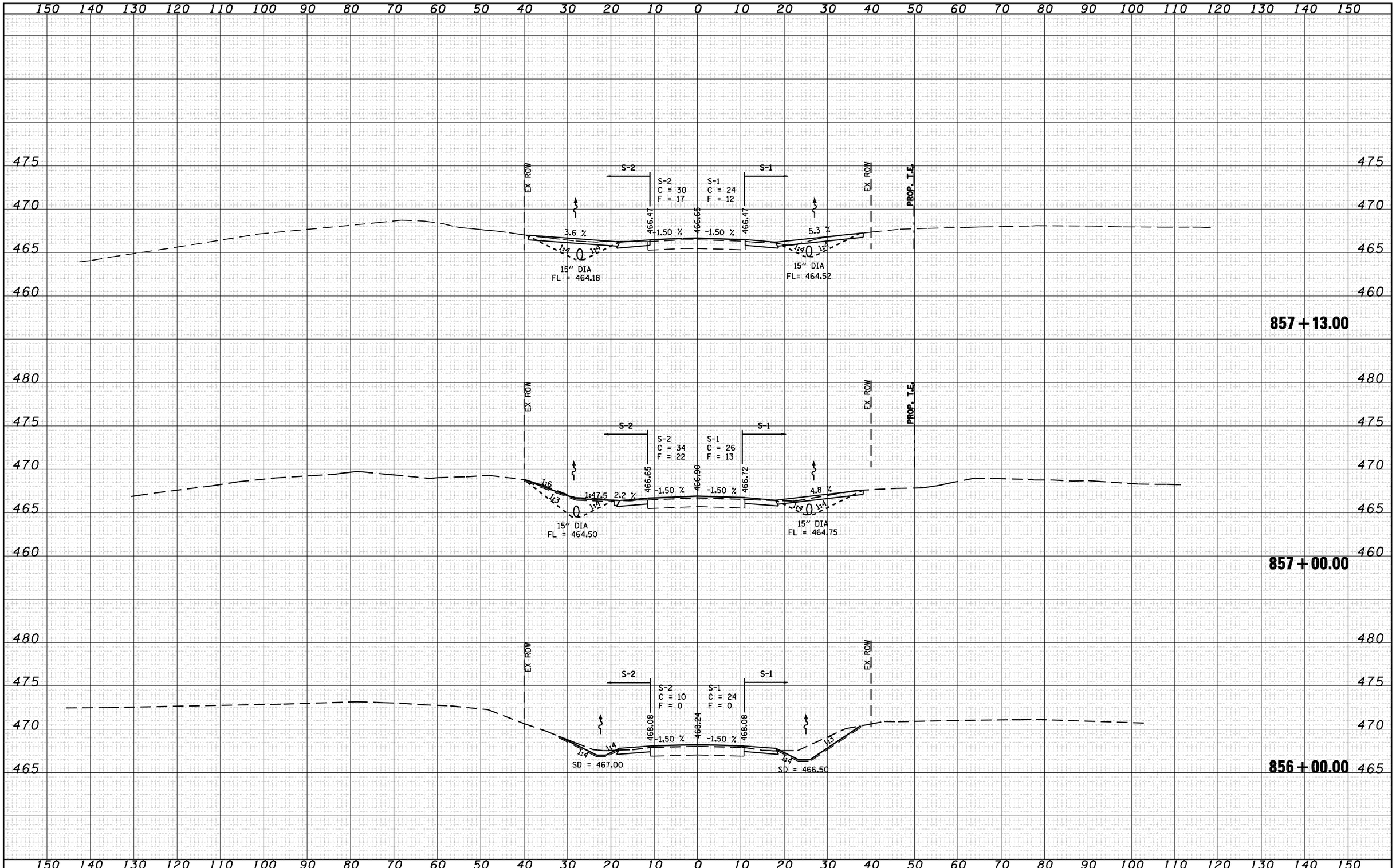
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 854+00.00 TO STA. 855+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	228
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE



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PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 856+00.00 TO STA. 857+13.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	229
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470 465 460 455 450 445

S-2
S-2
C = 36
F = 93
S-1
S-1
C = 60
F = 1
465.02
-1.50 %
465.21
-1.50 %
465.02
EX ROW
PROP. R.O.W.
PROP. R.O.W.
1:3
1:3
50.72' LT
EX ROW 455.00
62.72' LT
455.00
454.00
1:2
1:2
PR. ROCK FILL (S-1)
SD = 458.09
24" DIA
FL = 448.00

859 + 00.00

S-2
S-2
C = 23
F = 22
S-1
S-1
C = 40
F = 17
EX ROW
EX ROW
PROP. T.E.
465.53
-1.50 %
465.67
-1.50 %
465.49
3.21 %
1:14.366
1:3
1:2
1:4
1:4
15" DIA
FL= 462.00
15" DIA
FL = 463.00

858 + 00.00

S-2
C = 0
F = 0
S-1
C = 46
F = 19
EX ROW
PROP. T.E.
465.54
-1.50 %
465.36
C.E. 4.42%
1:4
1:4
15" DIA
FL = 463.17

857 + 90.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FINAL SURVEY
ORIGINAL SURVEY
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
NOTE BOOK
NO.
BY
DATE

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DESIGNED -
DRAWN -
CHECKED -
DATE -
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

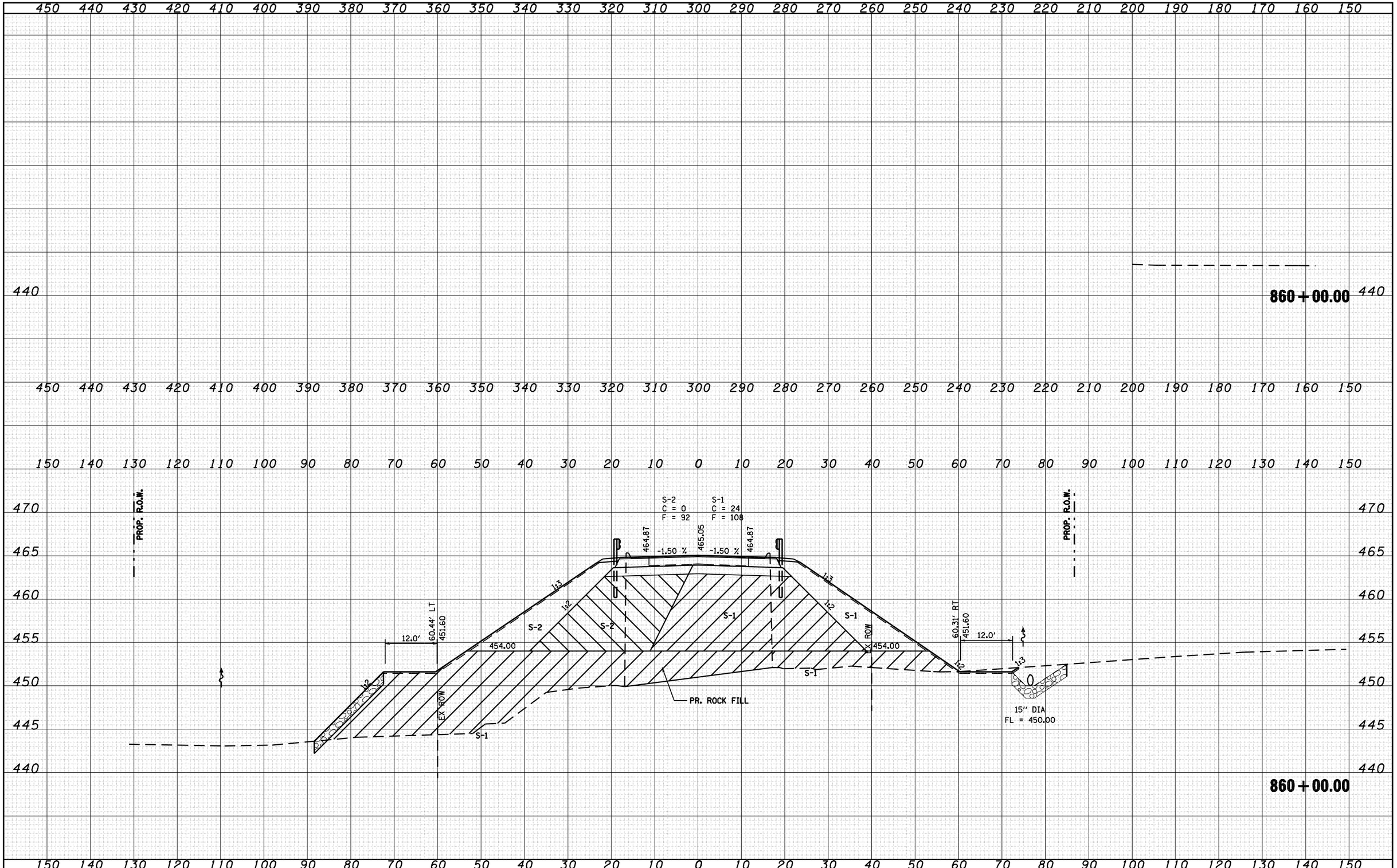
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 857+90.00 TO STA. 859+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	230
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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	PLOT SCALE = 20.0000 ' / IN.	DRAWN -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. 860+00.00 TO STA. 860+00.00
	PLOT DATE = Mar-31-2009 08:07:42AM	CHECKED -	REVISED -		
		DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	231
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

450 440 430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

440

861 + 00.00 440

450 440 430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470
465
460
455
450
445
440

PROP. R.O.W.

PROP. R.O.W.

464.62 464.80 464.62

2.00% -1.50 % -1.50 % -2.00%

EX ROW

EX ROW

PR. ROCK FILL

861 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

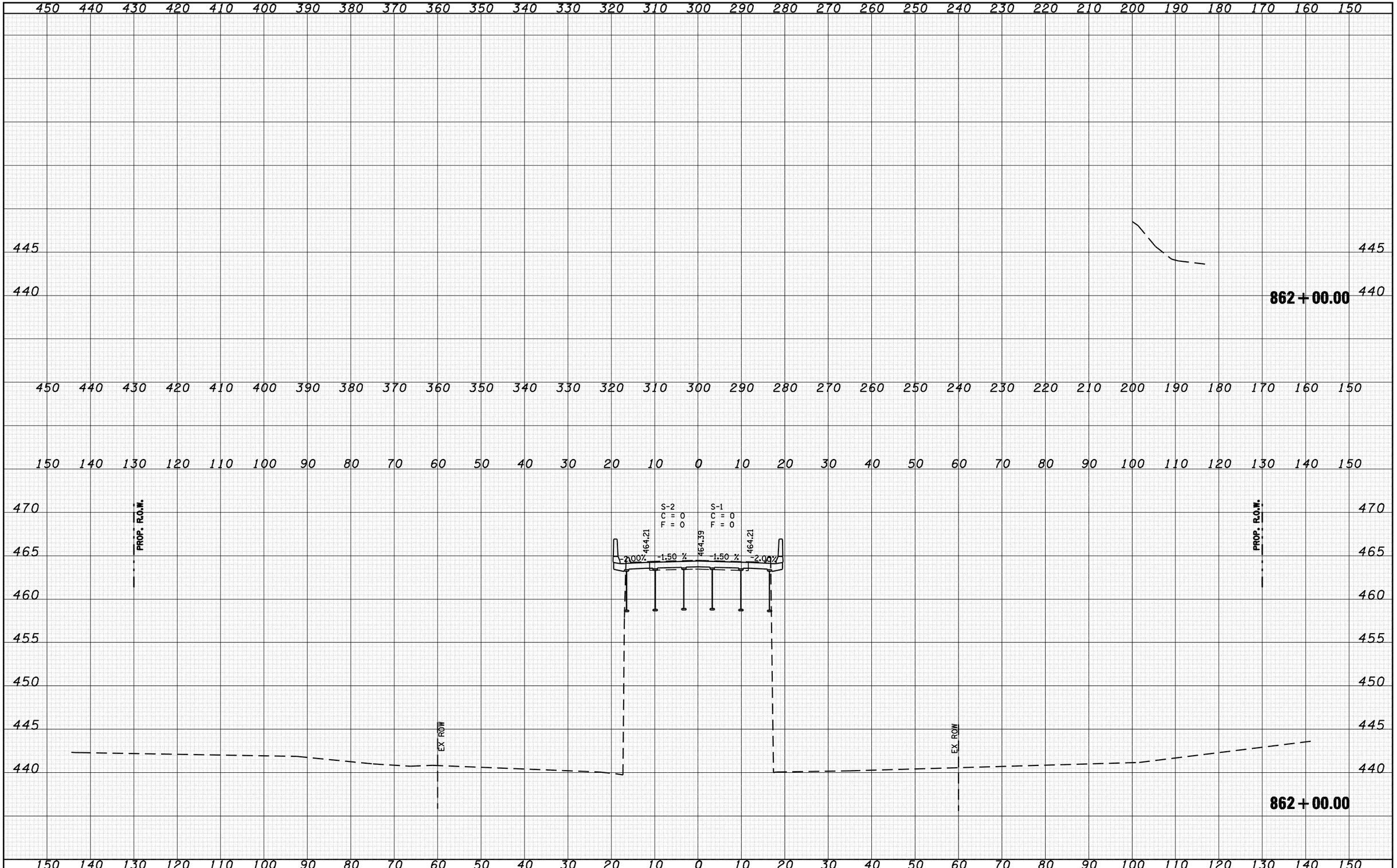
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 861+00.00 | TO STA. 861+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	232
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 862+00.00 TO STA. 862+00.00

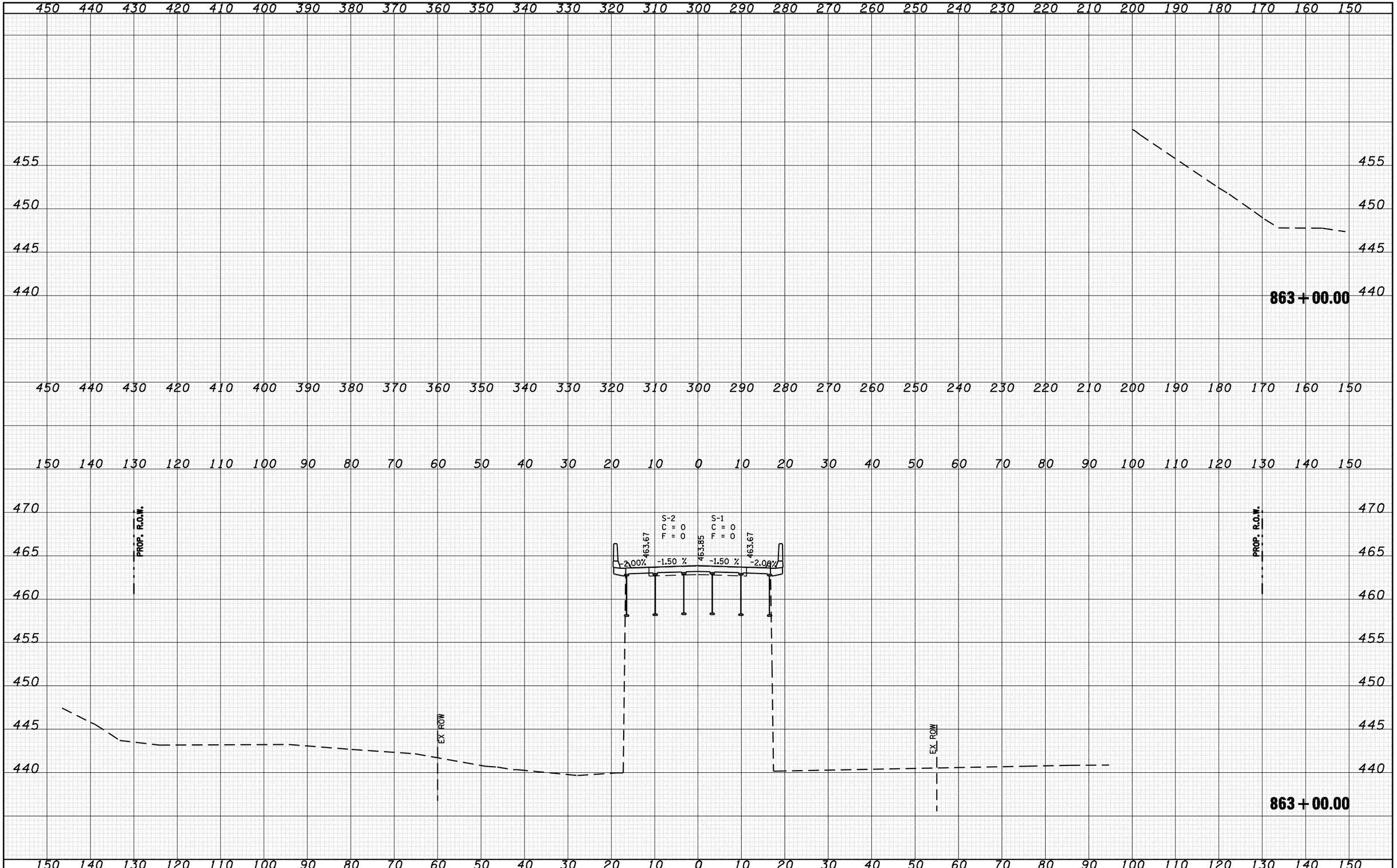
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	233
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE



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	PLOT DATE = Mar-31-2009 08:07:48AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 863+00.00 | TO STA. 863+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	234
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	PLOTTED	
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED	PLOTTED	
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470
465
460
455
450
445

PROP. R.O.W.

EX ROW

S-2
C = 131
T = 0

S-1
C = 88
T = 0

463.13
463.31
463.13

-2.00%
-1.50 %
-1.50 %
-2.00%

PROP. R.O.W.

EX ROW

864 + 00.00

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Mar-31-2009 08:07:50AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

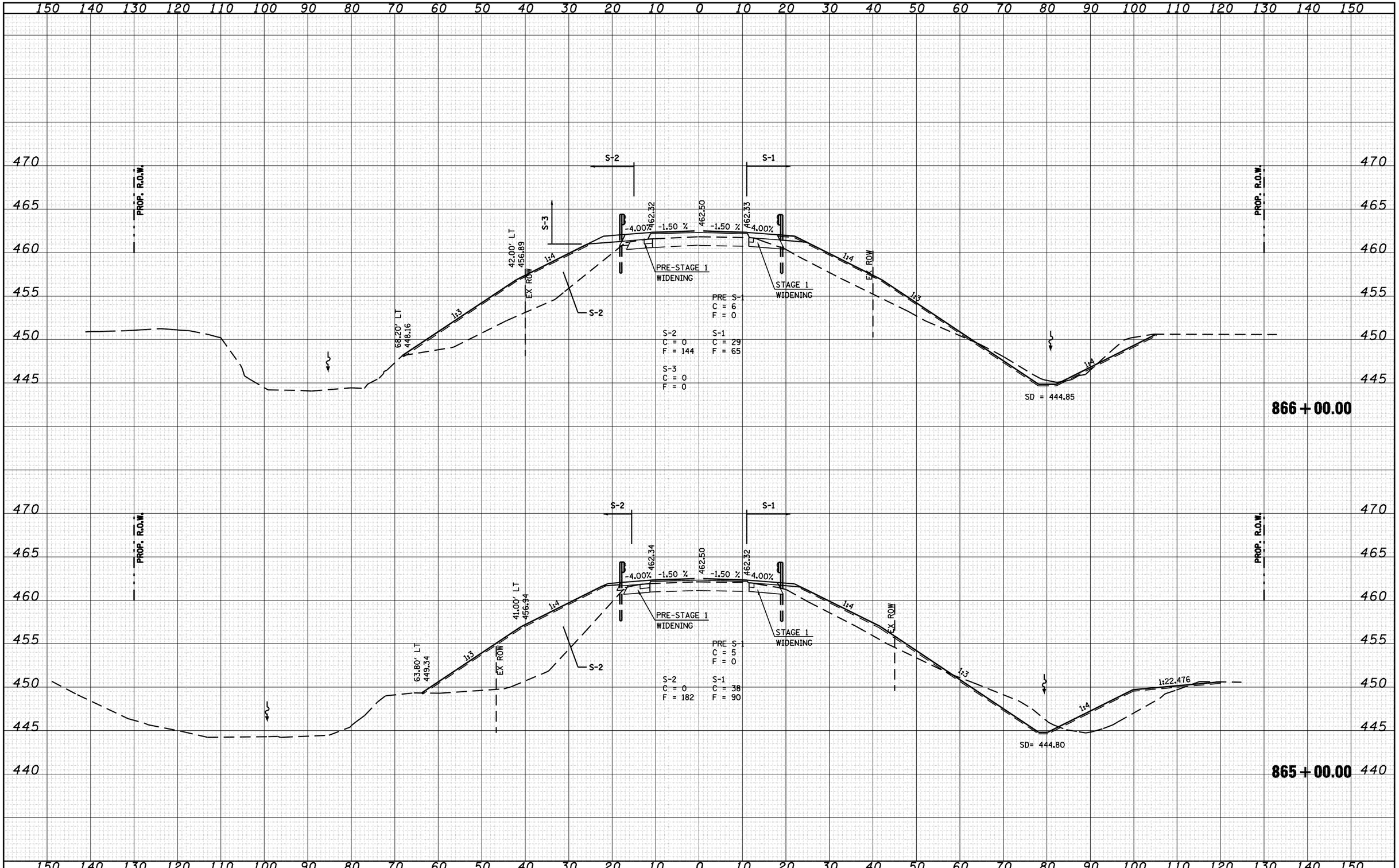
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 864+00.00 | TO STA. 864+10.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	235
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE



ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

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		DATE -	REVISED -

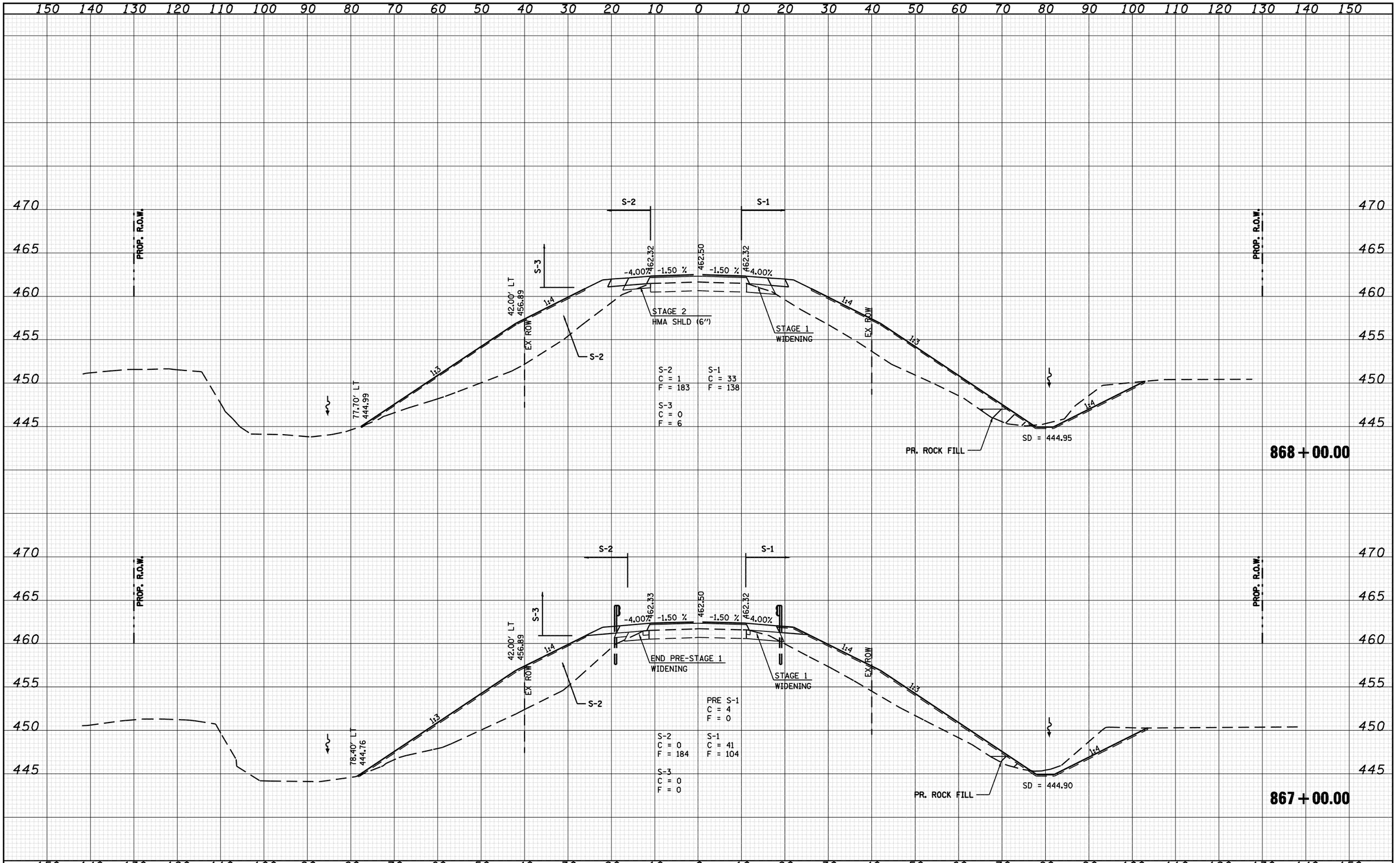
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 865+00.00 TO STA. 866+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	236
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				



ORIGINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				

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	PLOT DATE = Mar-31-2009 08:07:54AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 867+00.00 TO STA. 868+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	237
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
NO.								

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470 465 460 455 450 445 440

PROP. R.O.W.

S-2 S-1

S-3

EX ROW

462.33 462.50 462.33

-4.00% -1.50 % -1.50 % 4.00%

101.82' LT
453.91

1:10

STAGE 2
HMA SHLD (6")

STAGE 1
WIDENING

S-2

S-2
C = 2
F = 126

S-1
C = 364
F = 430

S-3
C = 0
F = 8

1:4

F.E. 10.00 %

42.00 RT
456.89

1:3 1:3

48" DIA.
FL = 445.01

869 + 20.00

PROP. R.O.W.

S-2 S-1

42.00 LT
457.63

S-3

EX ROW

462.33 462.50 462.33

-4.00% -1.50 % -1.50 % 4.00%

1:4

63.16 LT
452.64

1:3

STAGE 2
HMA SHLD (6")

STAGE 1
WIDENING

S-2

S-2
C = 1
F = 108

S-1
C = 135
F = 25

S-3
C = 0
F = 5

EX ROW

42.00 RT
456.89

1:3 1:3

48" DIA.
FL = 445.00

869 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

ORIGINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
NO.								

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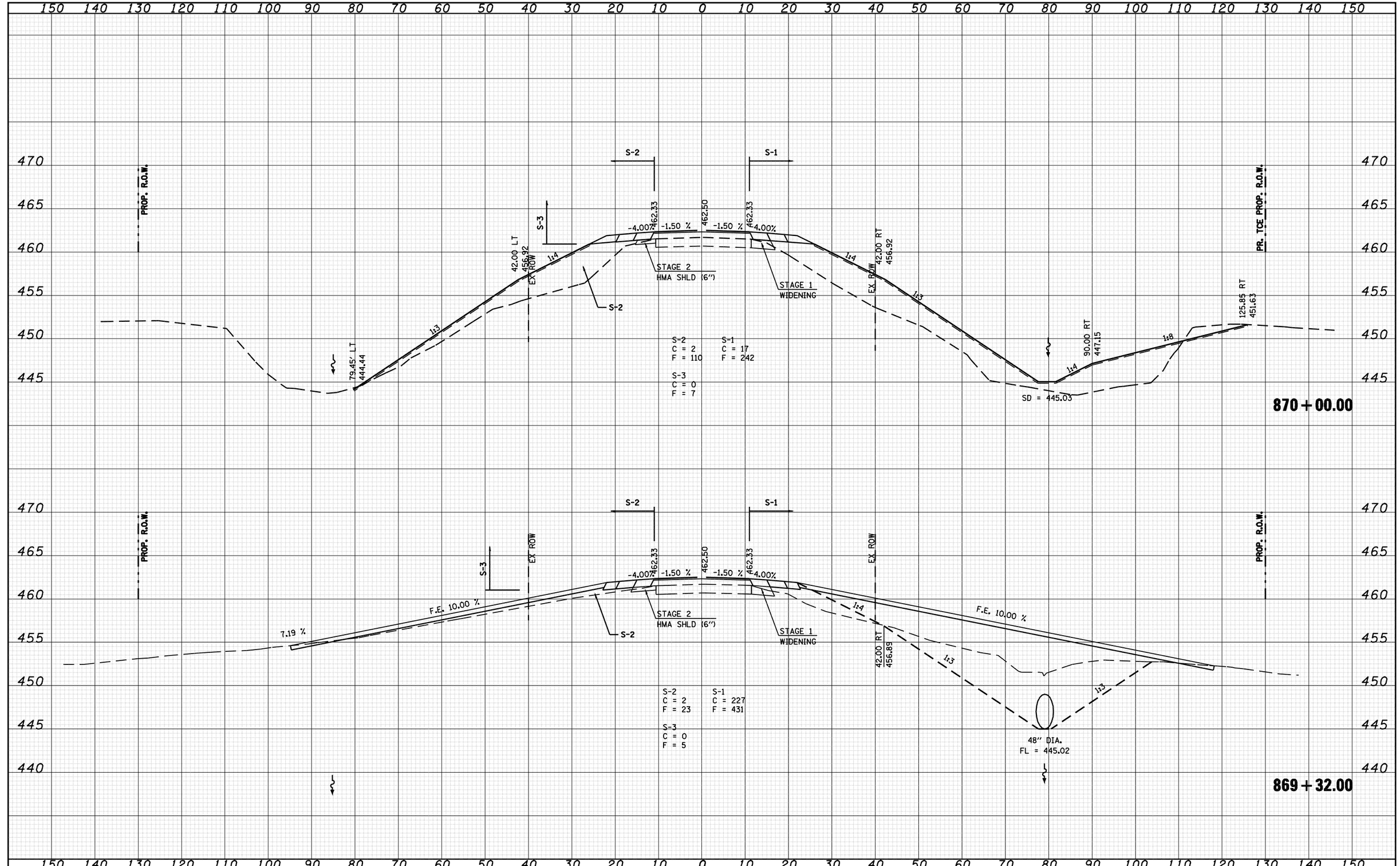
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 869+00.00 TO STA. 869+20.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	238
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	



ORIGINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 869+32.00 TO STA. 870+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	239
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470 465 460 455 450 445

PROP. R.O.W.

S-2 S-1

S-3

-4.00% -1.50 % -1.50 % 4.00%

462.33 462.50 462.33

42.00 LT
456.90
EX ROW

42.00 RT
456.89
EX ROW

1:4 1:3 1:4 1:3 1:4 1:8

STAGE 2
HMA SHLD (6")

STAGE 1
HMA SHLD (6")

STAGE 1
WIDENING

S-2

80.09' LT
444.20

S-2
C = 2
F = 149

S-1
C = 46
F = 174

S-3
C = 0
F = 7

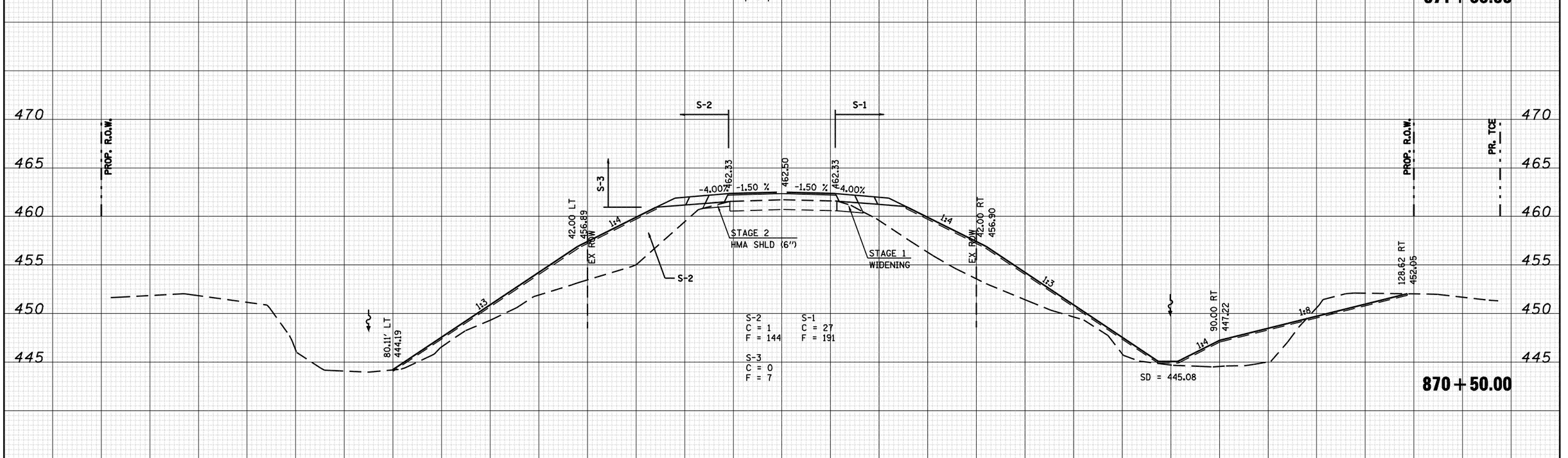
90.00 RT
447.25

SD = 445.10

129.39 RT
452.18

PROP. R.O.W.

871 + 00.00



870 + 50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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	PLOT DATE = Mar-31-2009 08:08:01AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

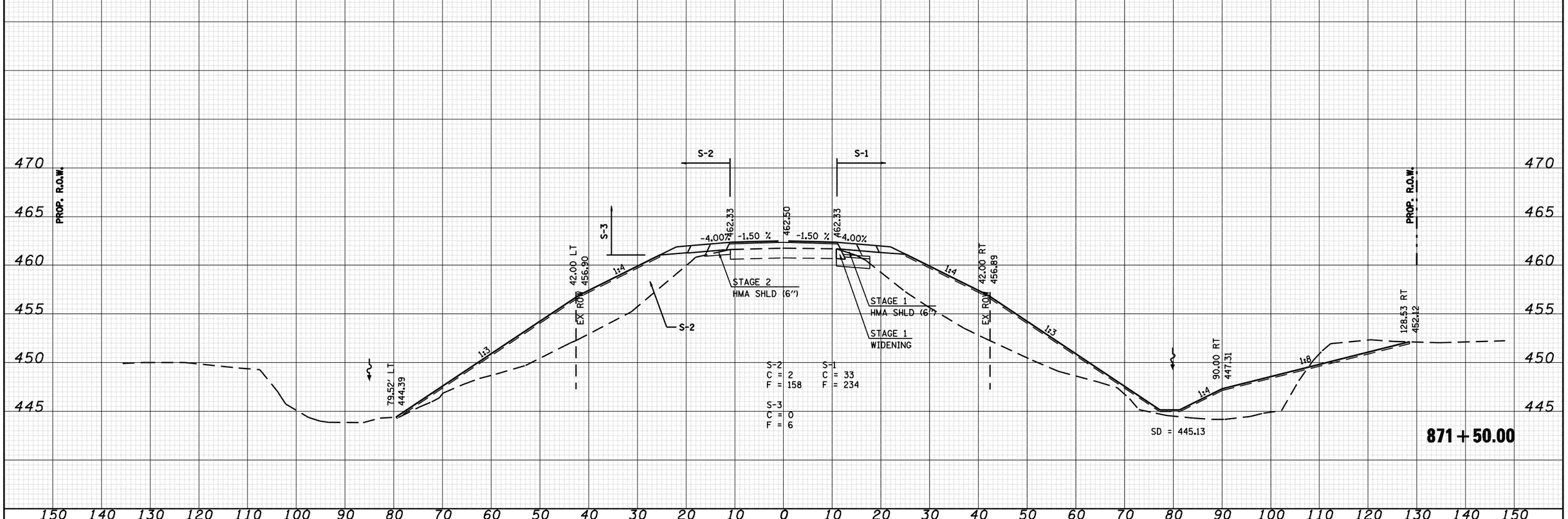
SCALE: | SHEET NO. OF SHEETS | STA. 870+50.00 TO STA. 871+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	240
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK	AREAS	
NO.	AREAS CHECKED	

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 871+50.00 | TO STA. 871+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	241
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

FINAL SURVEY / ORIGINAL SURVEY — NOTE BOOK — NO.

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450

470 465 460 455 450

PR. TCE

1:158.259

173.34 RT
452.29

872+00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PROP. R.O.W.

S-2 S-1 S-3

-4.00% -1.50 % -1.50 % 4.00%

462.33 462.50 462.33

42.00 LT
456.90

42.00 RT
456.89

EX ROW EX ROW

1:3 1:4 1:4 1:3

STAGE 2
HMA SHLD (6")

STAGE 1
HMA SHLD (6")

STAGE 1
WIDENING

S-2
C = 1
F = 189

S-1
C = 8
F = 565

S-3
C = 0
F = 7

79.95' LT
444.24

90.00 RT
447.34

1:8 1:4

127.27 RT
452.00

1:158.259

SD = 445.15

872+00.00

FILE NAME =	USER NAME = laughlinrl	DESIGNED -	REVISED -
c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001.dgn		DRAWN -	REVISED -
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	PLOT DATE = Mar-31-2009 08:08:05AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

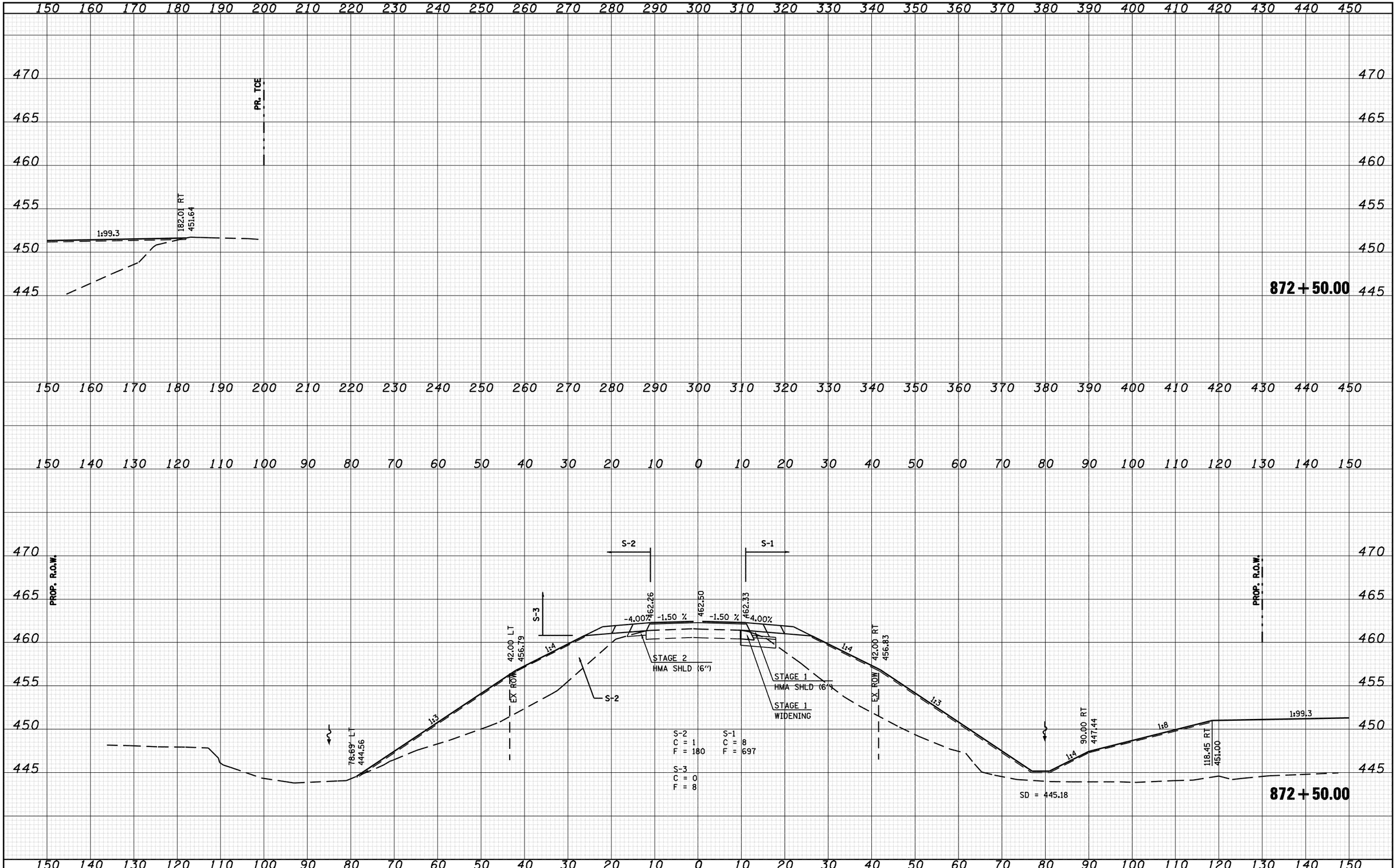
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 872+00.00 TO STA. 872+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	242
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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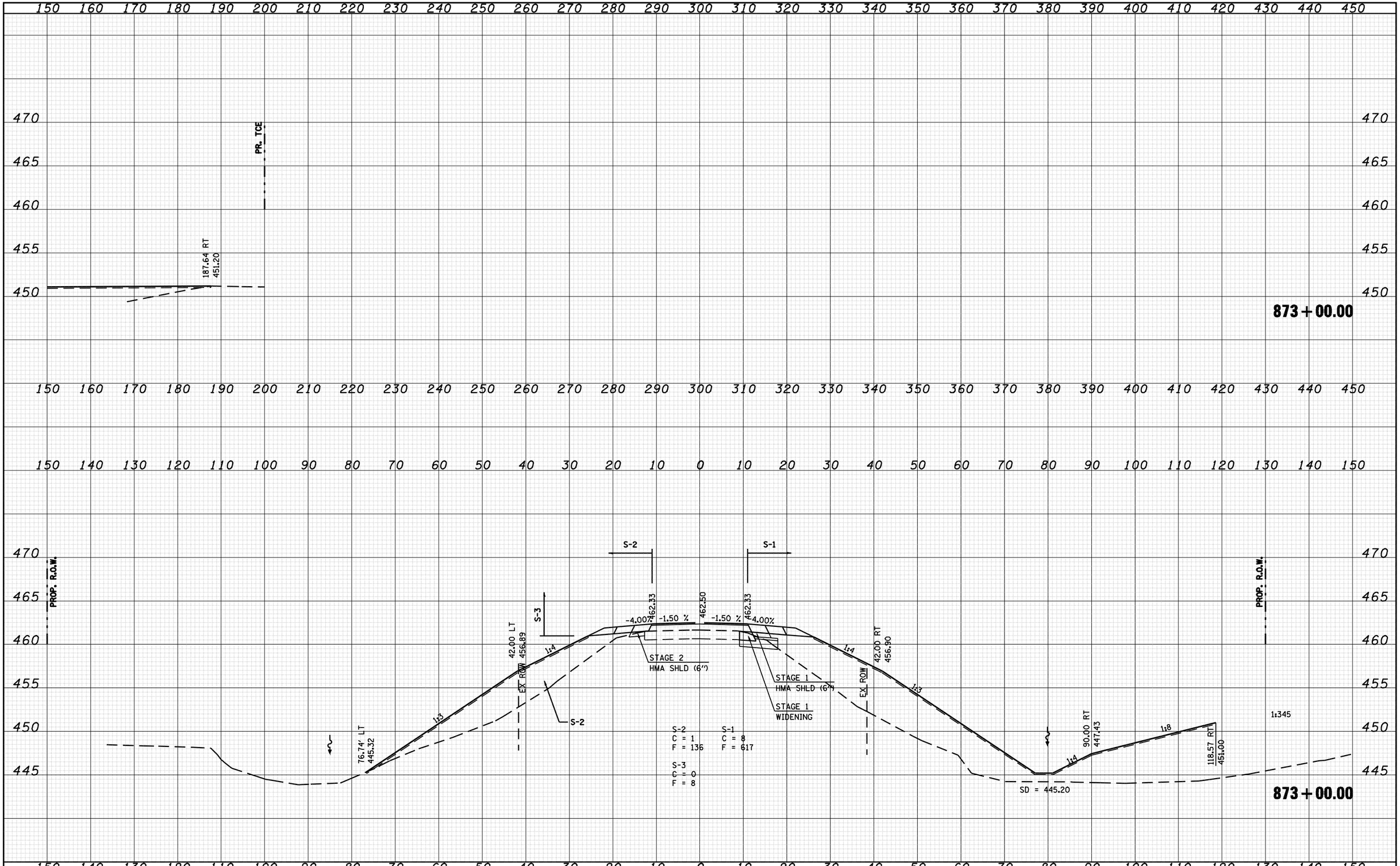
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 872+50.00 | TO STA. 872+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	243
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = Mar-31-2009 08:08:09AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 873+00.00 TO STA. 873+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	244
		CONTRACT NO. 72A76		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450

470
465
460
455
450

PR. TCE

194.30 RT
450.80

873 + 50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

PROP. R.O.W.

S-2

S-1

S-3

-4.00% -1.50 % 462.33 462.50 -1.50 % 462.33 4.00%

42.00 LT
456.89

EX ROW

1:4

1:3

71.69' LT
447.00

STAGE 2
HMA SHLD (6")

S-2

STAGE 1
HMA SHLD (6")

STAGE 1
WIDENING

42.00 RT
456.90

EX ROW

1:4

1:3

90.00 RT
447.48

1:8

114.15 RT
450.50

1:263.12

S-2
C = 1
F = 111

S-1
C = 9
F = 602

S-3
C = 0
F = 6

SD = 445.23

PROP. R.O.W.

873 + 50.00

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = Mar-31-2009 08:08:11AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

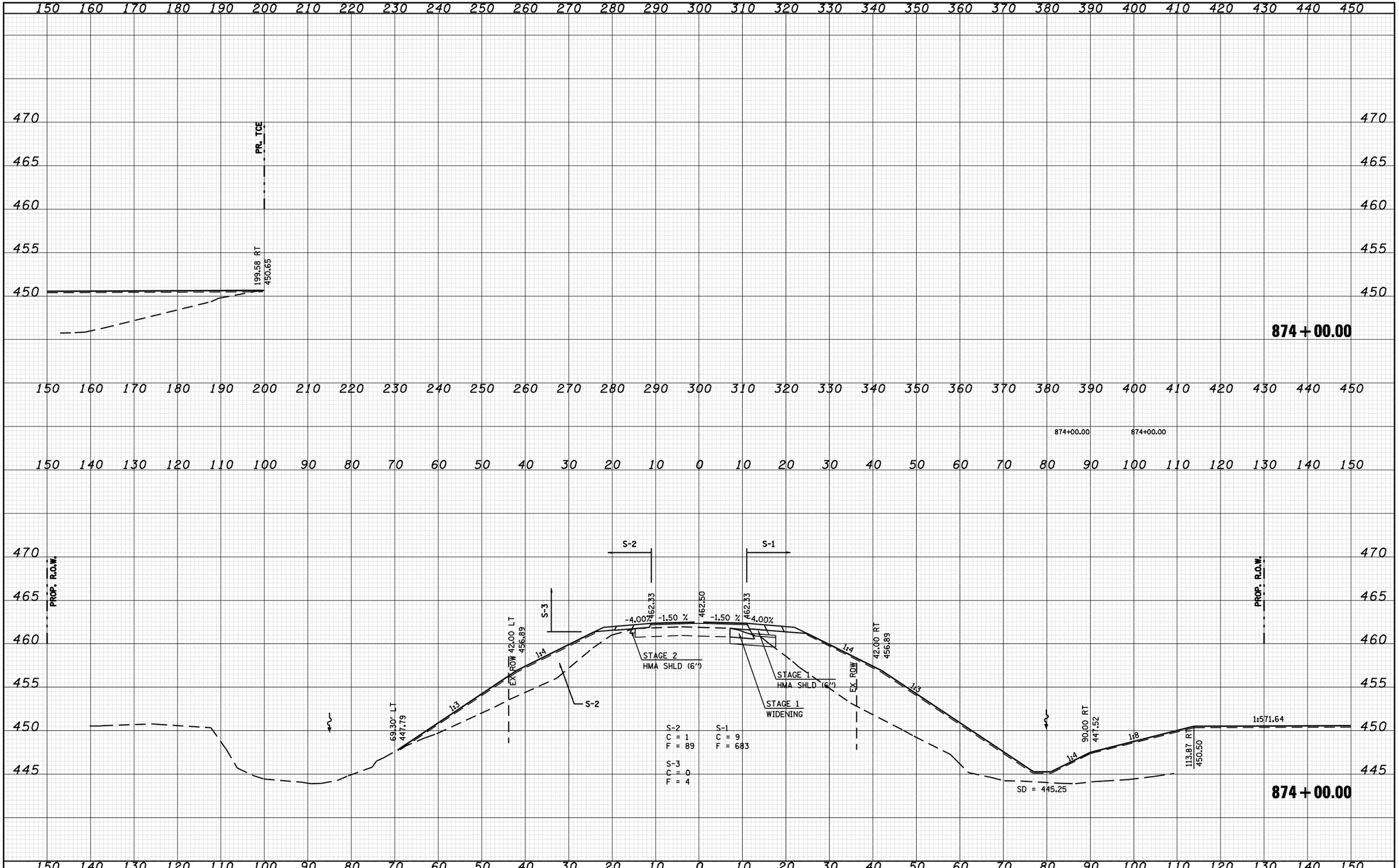
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 873+50.00 TO STA. 873+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	245
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE



ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = Mar-31-2009 08:08:13AM	DATE -	REVISED -

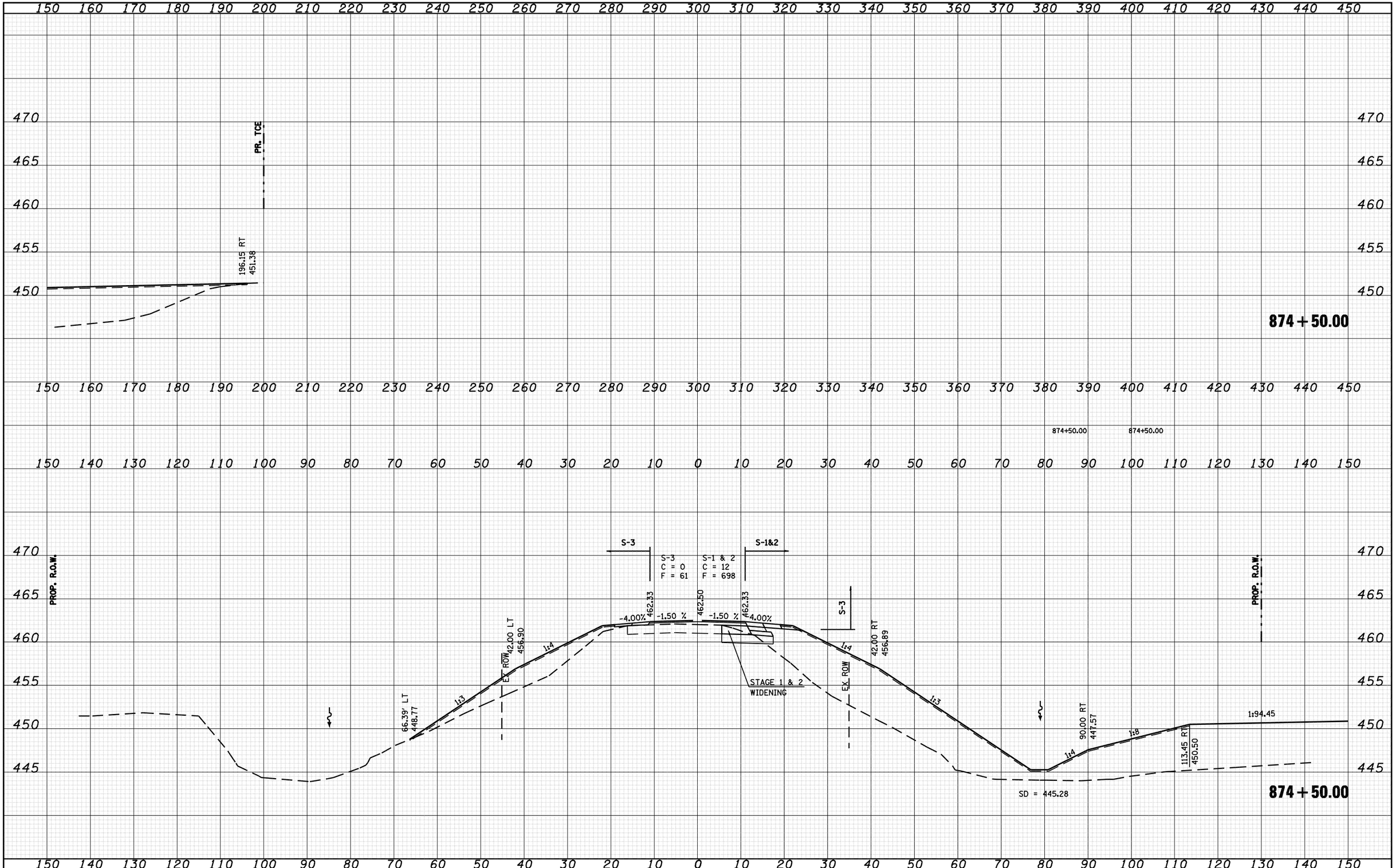
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 874+00.00 TO STA. 874+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	246
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



FILE NAME =	USER NAME = laughlinrl	DESIGNED -	REVISED -
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	PLOT DATE = Mar-31-2009 08:08:16AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 874+50.00 TO STA. 874+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	247
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450

470
465
460
455
450

PR. TCE

183.72 RT
452.27

875 + 00.00

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470
465
460
455
450
445

PROP. R.O.W.

S-3 S-1&2

-4.00% -1.50 % -1.50 % 4.00%

462.33 462.50 462.33

S-3

42.00 LT
456.30

EX ROW

1:4

1:3

64.83' LT
449.29

STAGE 1 & 2
WIDENING

S-3
C = 0
F = 40

S-1 & 2
C = 13
F = 673

42.00 RT
456.89

EX ROW

1:4

1:3

90.00 RT
447.60

1:8

1:39.872

183.72 RT
452.27

SD = 445.30

PROP. R.O.W.

875 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 875+00.00 TO STA. 875+00.00

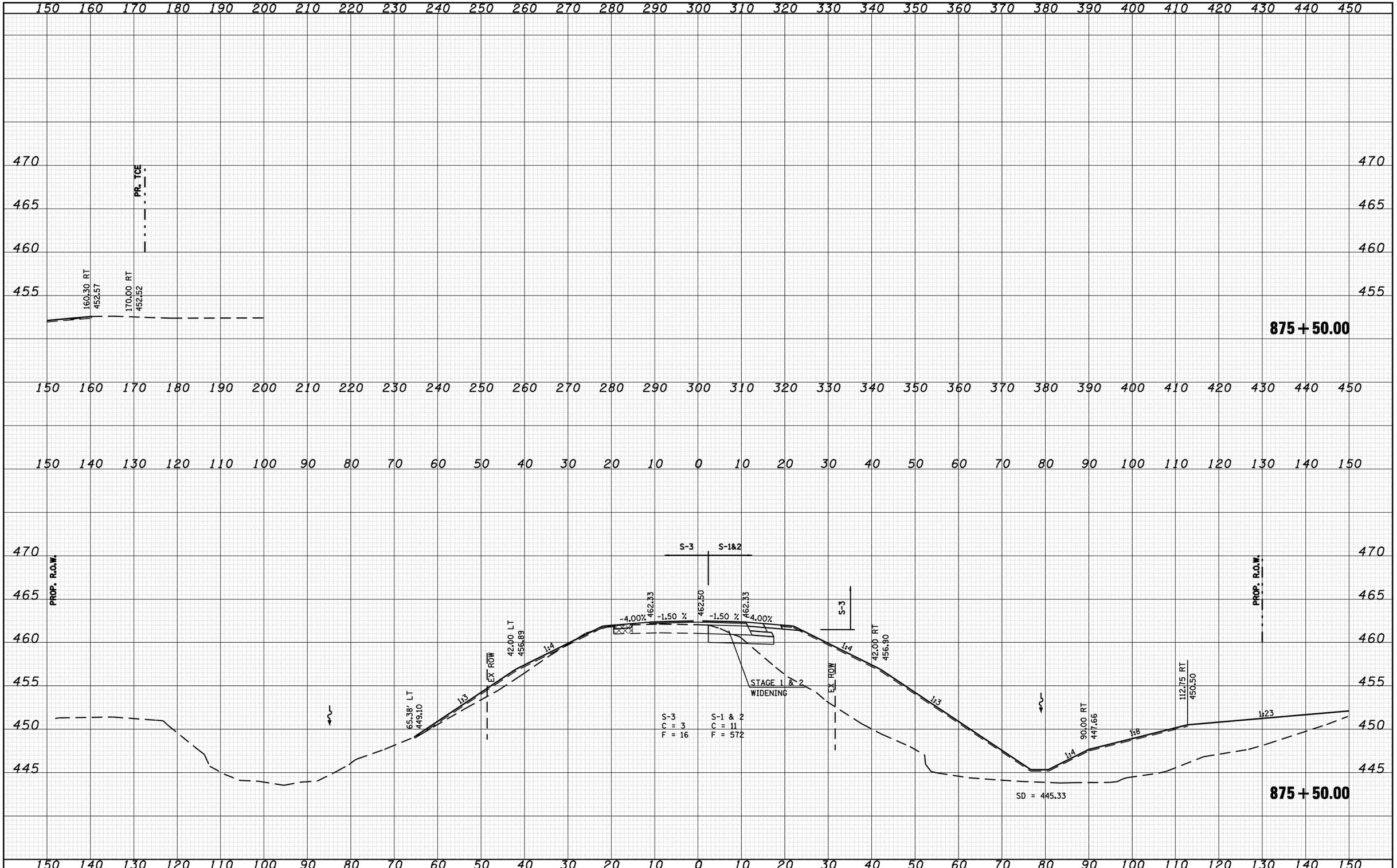
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	248
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 875+50.00 TO STA. 875+50.00

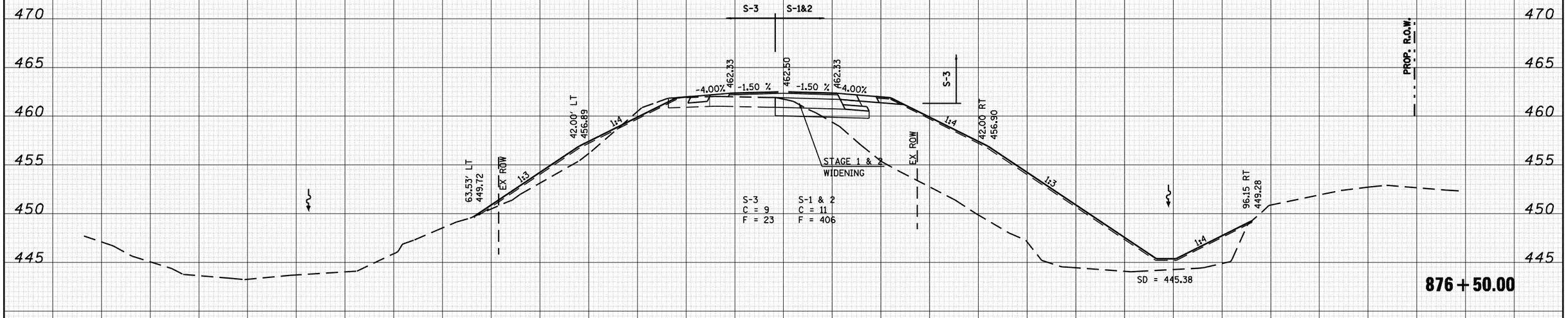
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	249
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY | DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470 465 460 455 450 445



ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY | DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 876+00.00 TO STA. 876+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	250
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
NO.								

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470 465 460 455 450 445

S-3 S-1&2

462.32 462.50 462.33

-4.00% -1.50 % -1.50 % 4.00%

S-3

1:4

57.93' LT
452.92

EX ROW

STAGE 1 & 2
WIDENING

EX ROW

S-3
C = 53
F = 1

S-1 & 2
C = 95
F = 405

1:4

42.00 RT
456.95

1:3

1:4

109.93 RT
452.77

PROP. R.O.W.

SD = 446.05

877 + 50.00

S-3 S-1&2

462.33 462.50 462.33

-4.00% -1.50 % -1.50 % 4.00%

S-3

1:4

40.84' LT
457.18

EX ROW

STAGE 1 & 2
WIDENING

EX ROW

S-3
C = 20
F = 2

S-1 & 2
C = 54
F = 378

1:4

42.00 RT
456.90

1:3

1:4

107.73 RT
452.21

PROP. R.O.W.

SD = 445.40

877 + 00.00

ORIGINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
NO.								

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

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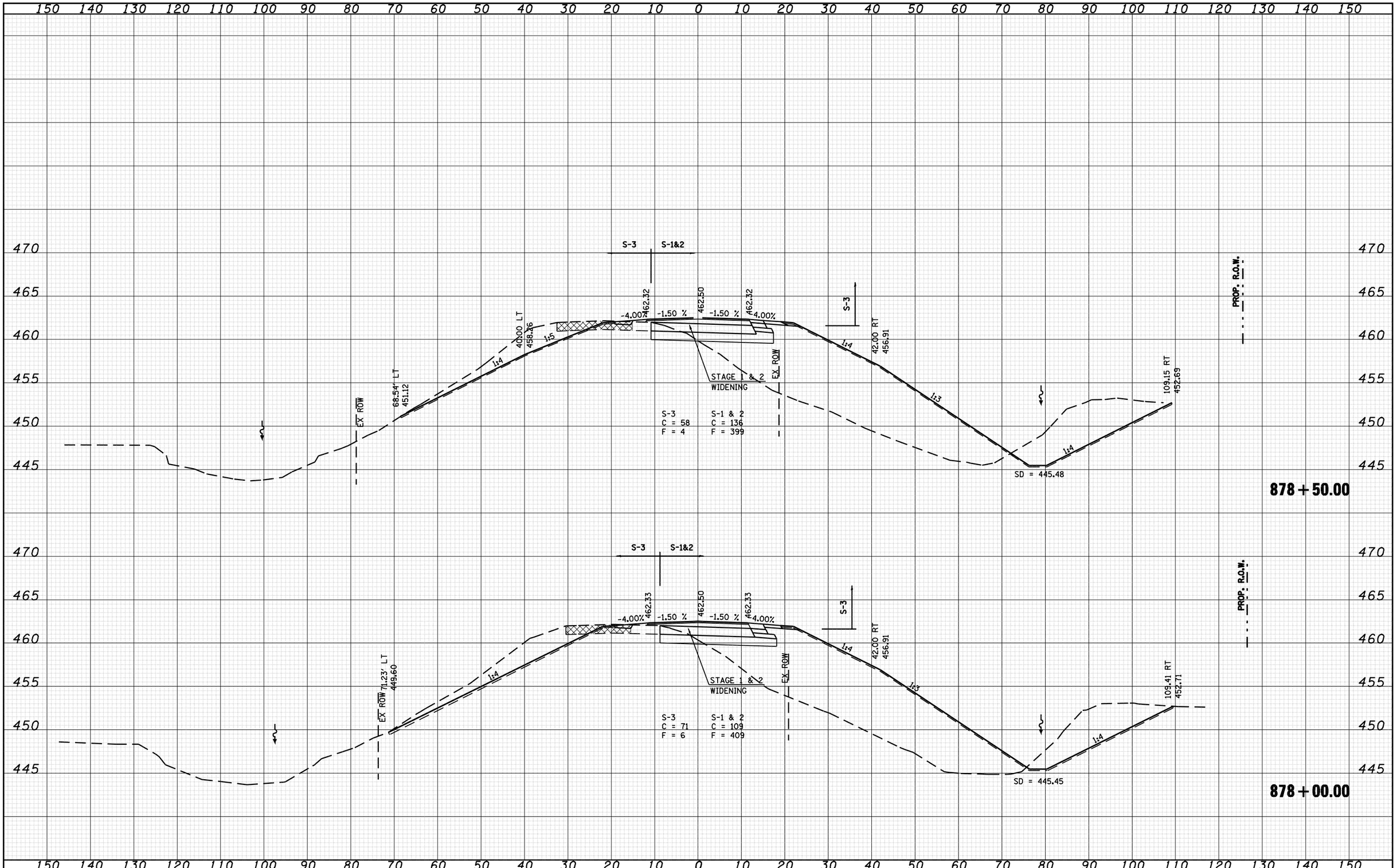
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 877+00.00 TO STA. 877+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	251
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
NO.								



ORIGINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
NO.								

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

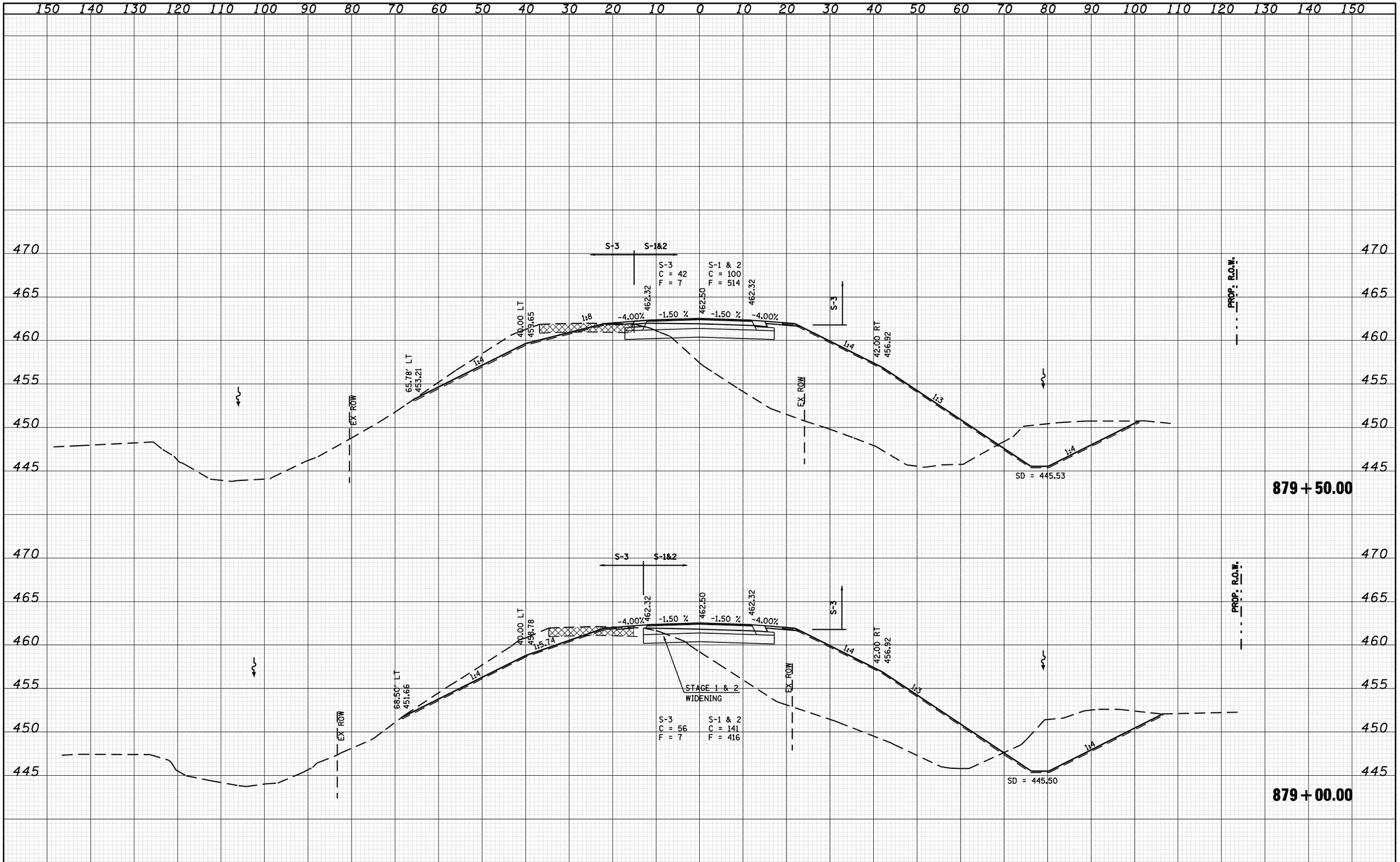
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 878+00.00 TO STA. 878+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	252
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	NO.	BY	DATE
NOTE BOOK			
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			

FINAL SURVEY	NO.	BY	DATE
NOTE BOOK			
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 879+00.00 TO STA. 879+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	253
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

470 465 460 455 450 445

S+3 S-1&2

S-3
C = 29
F = 10

S-1 & 2
C = 10
F = 664

S-3

64.93' LT
454.68

EX ROW

1:4

40.00 LT
460.92

1:18

462.32

-4.00%

-1.50 %

462.50

SD = 461.70

-1.50 %

462.32

-4.00%

S-3

1:4

42.00 RT
456.92

1:3

EX ROW

1:4

SD = 445.58

PROP. R.O.W.

880 + 50.00

S+3 S-1&2

S-3
C = 32
F = 8

S-1 & 2
C = 25
F = 619

S-3

71.12' LT
452.53

EX ROW

1:4

40.00 LT
460.30

1:11.144

462.32

-4.00%

-1.50 %

462.50

-1.50 %

462.32

-4.00%

S-3

1:4

42.00 RT
456.92

1:3

EX ROW

1:4

SD = 445.55

PROP. R.O.W.

880 + 00.00

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		DATE

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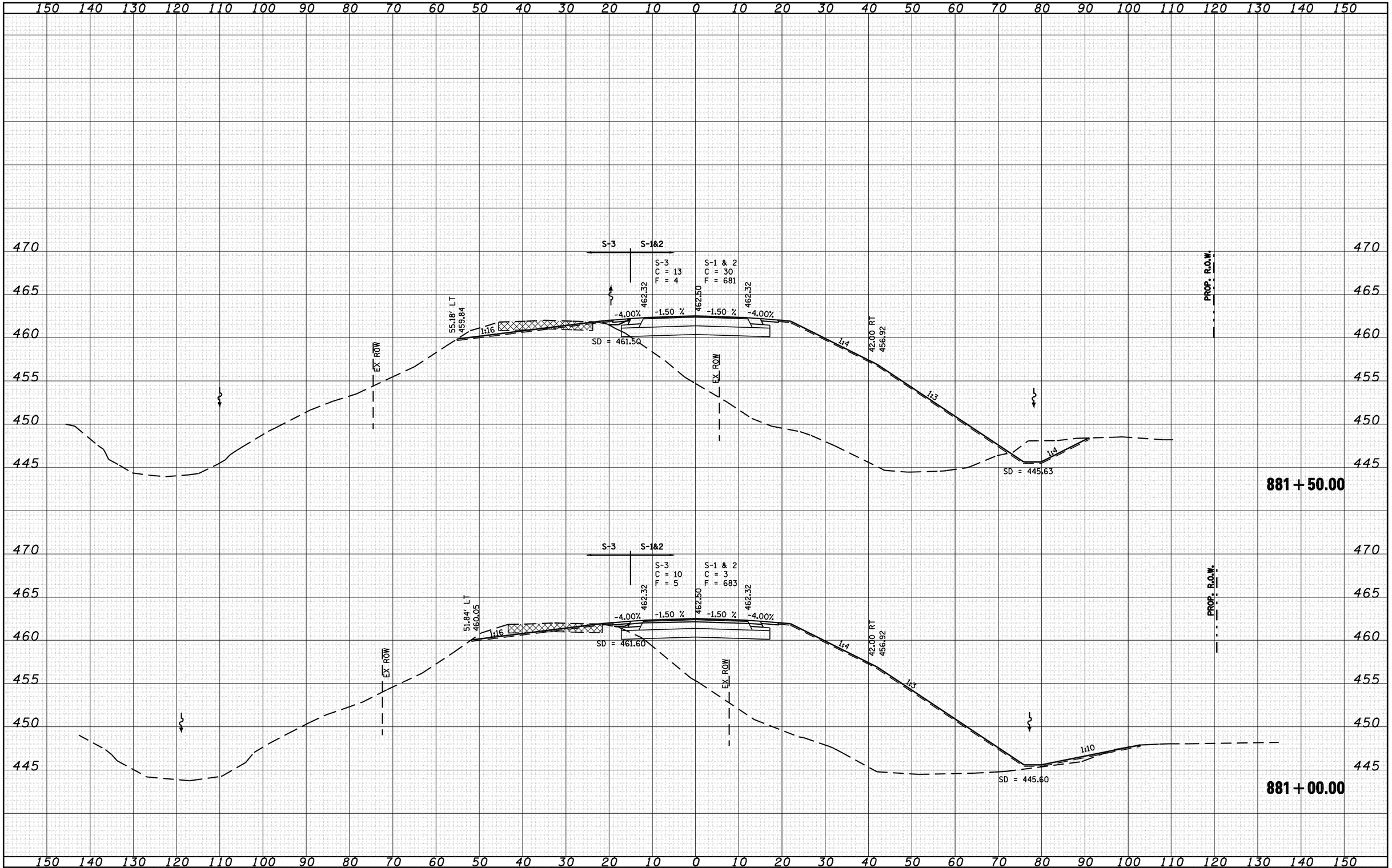
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 880+00.00 TO STA. 880+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	254
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
NO.								



ORIGINAL SURVEY	NOTE BOOK	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED	BY	DATE
NO.								

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	PLOT DATE = Mar-31-2009 08:08:32AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 881+00.00 TO STA. 881+50.00

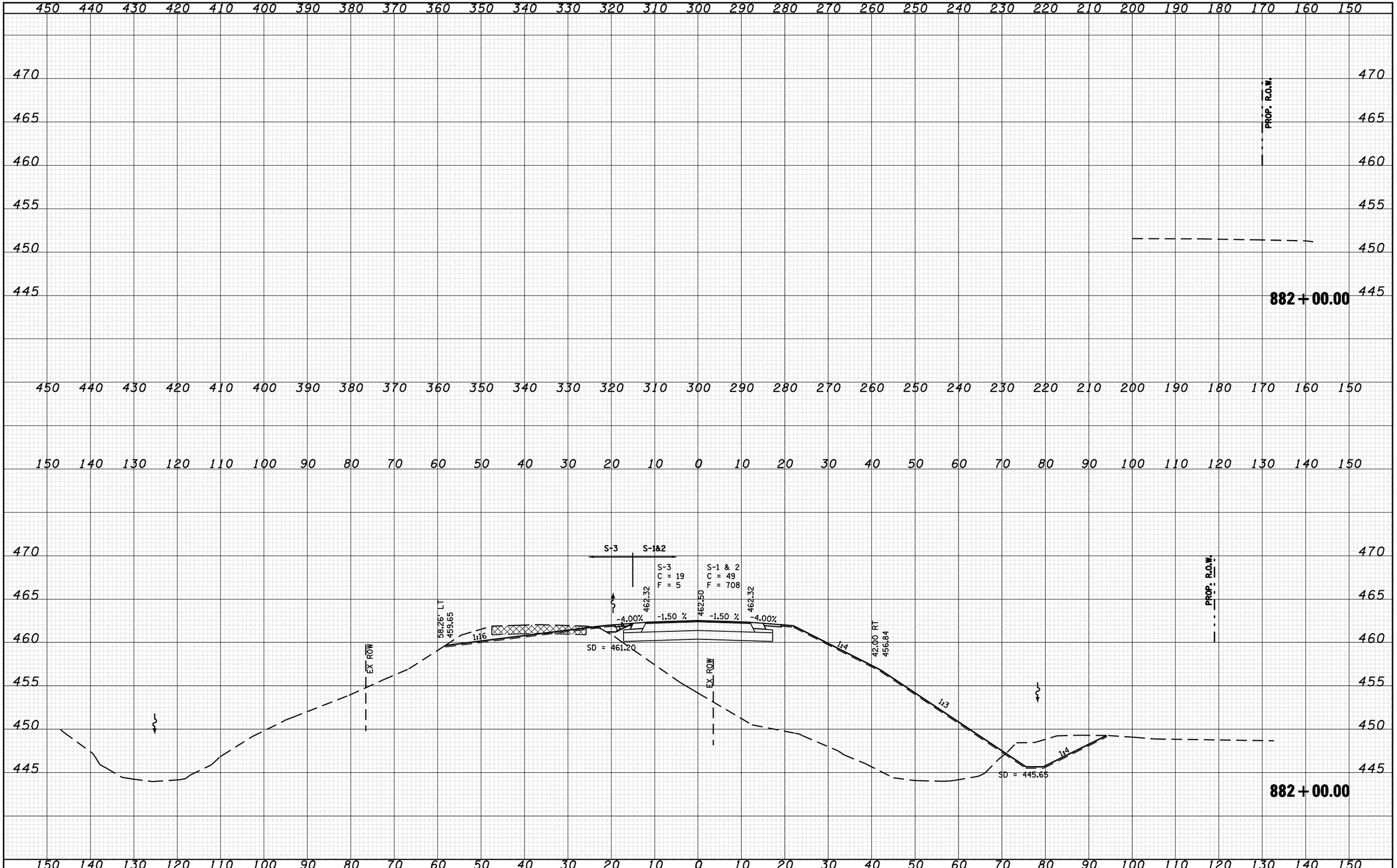
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	255
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE



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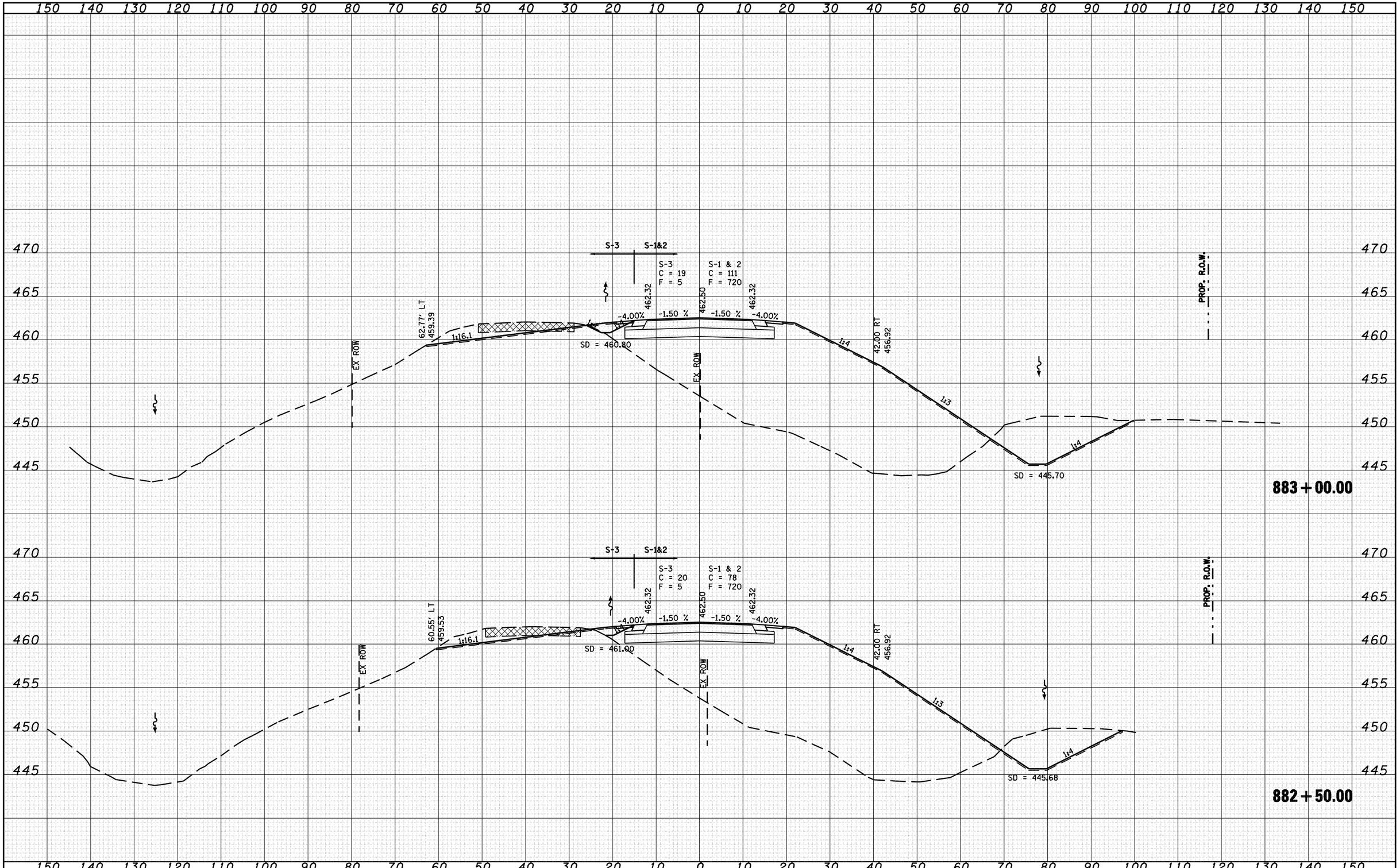
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 882+00.00 | TO STA. 882+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	256
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NO.	BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
NOTE BOOK			
AREAS			
AREAS CHECKED			



ORIGINAL SURVEY	NO.	BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
NOTE BOOK			
AREAS			
AREAS CHECKED			

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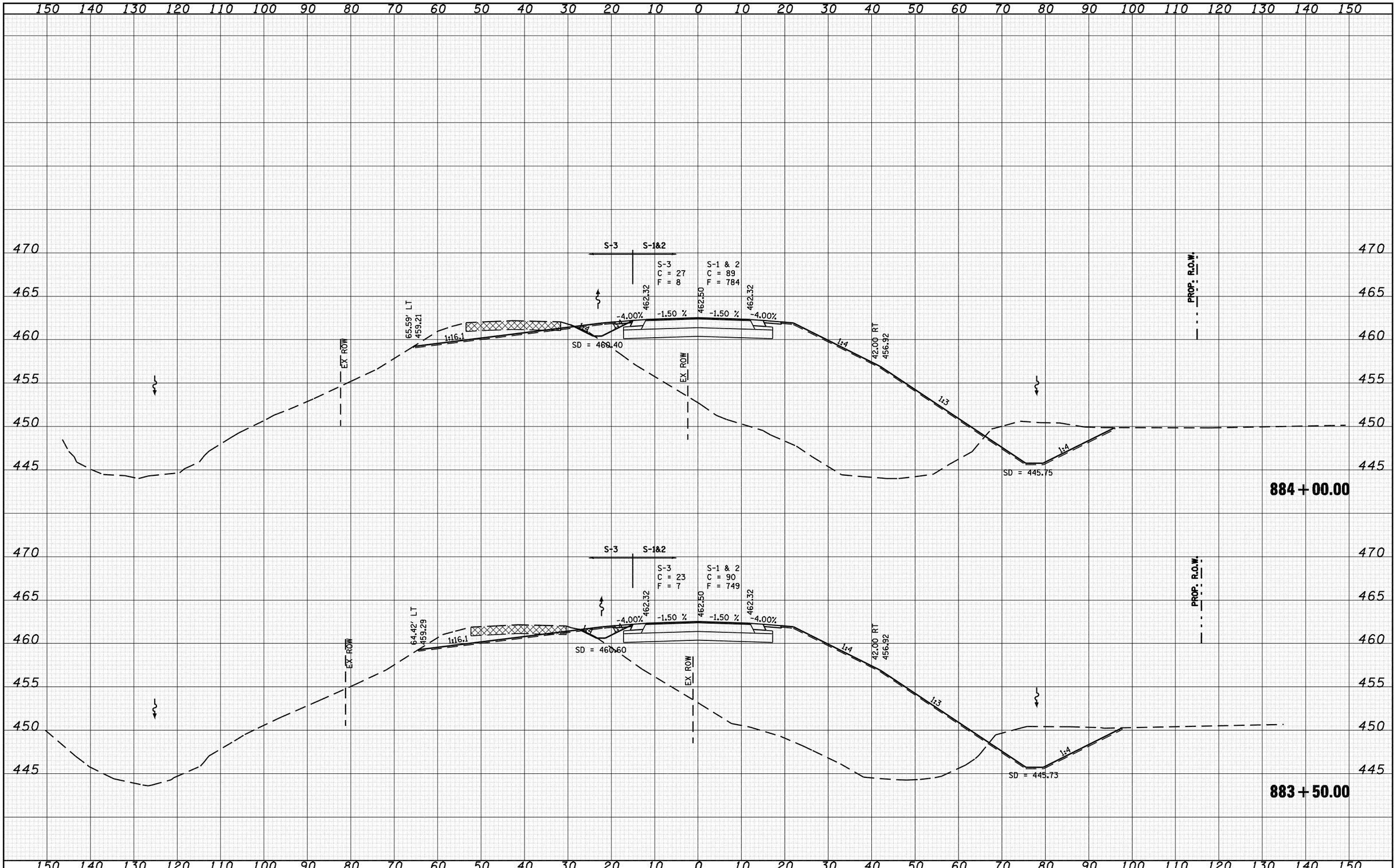
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. 882+50.00 TO STA. 883+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	257
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		



ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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	PLOT DATE = Mar-31-2009 08:08:38AM	DATE -	REVISED -

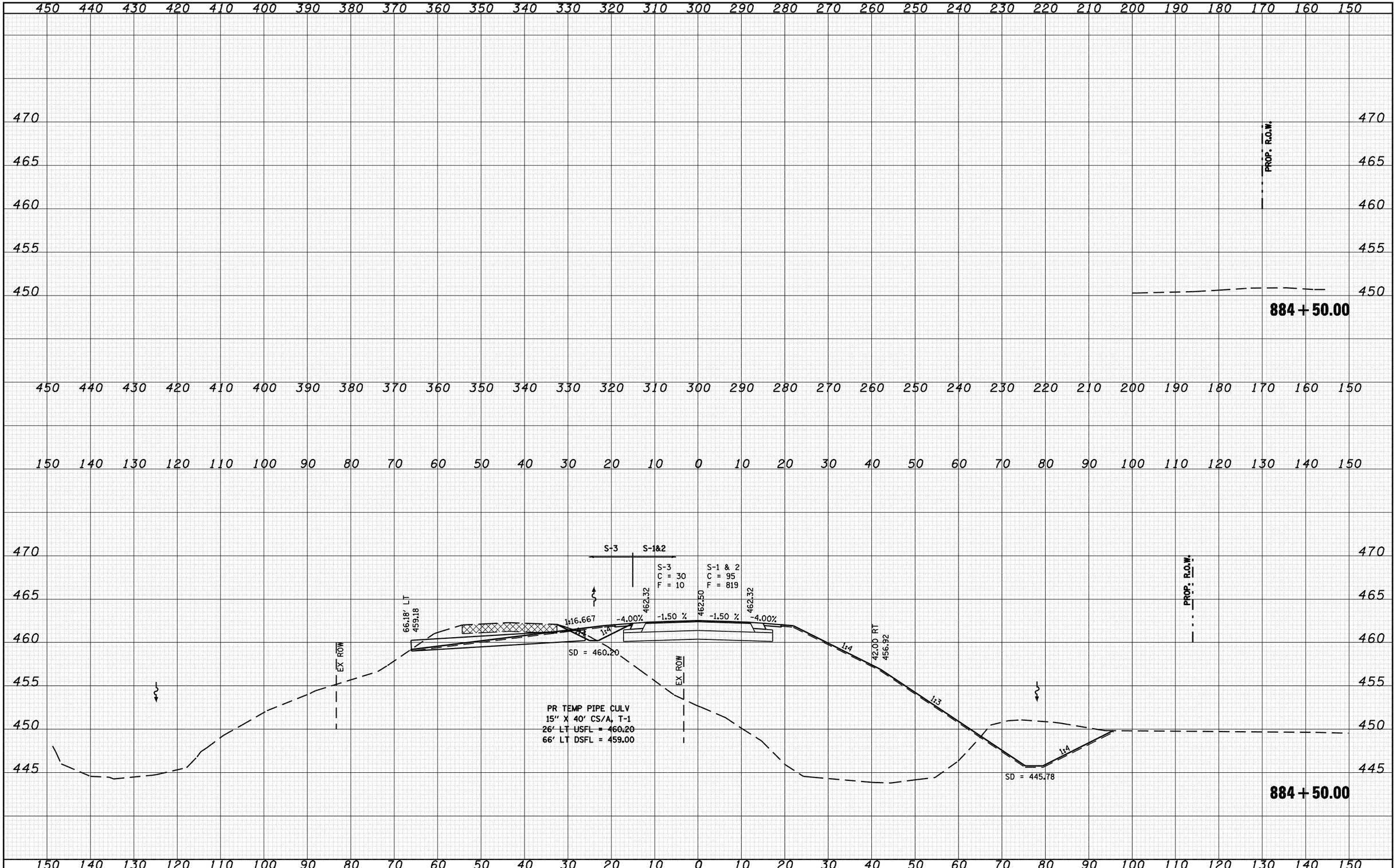
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 883+50.00 TO STA. 884+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	258
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

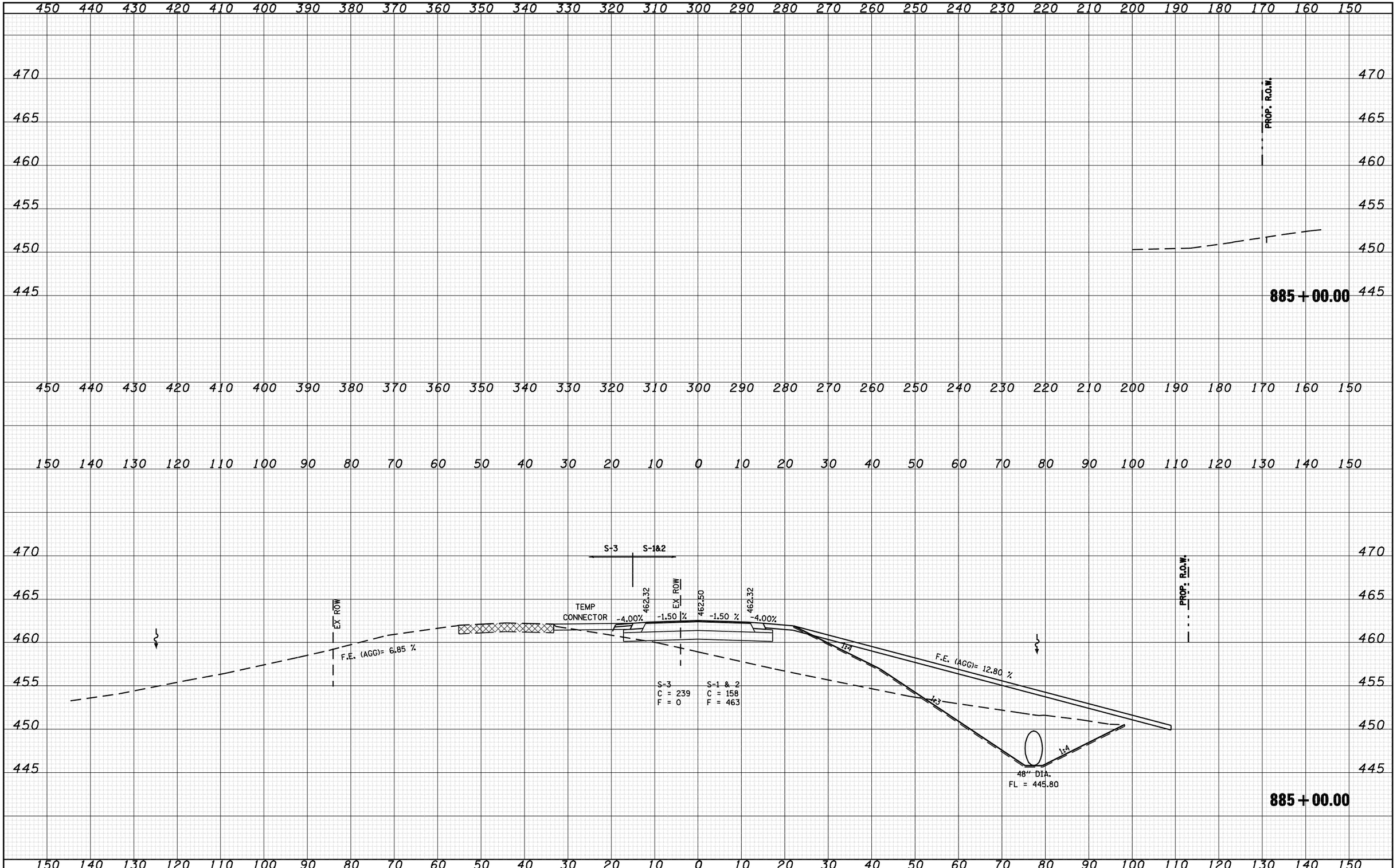
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 884+50.00 TO STA. 884+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	259
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	BY	DATE
FINAL SURVEY		
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED



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	PLOT DATE = Mar-31-2009 08:08:43AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

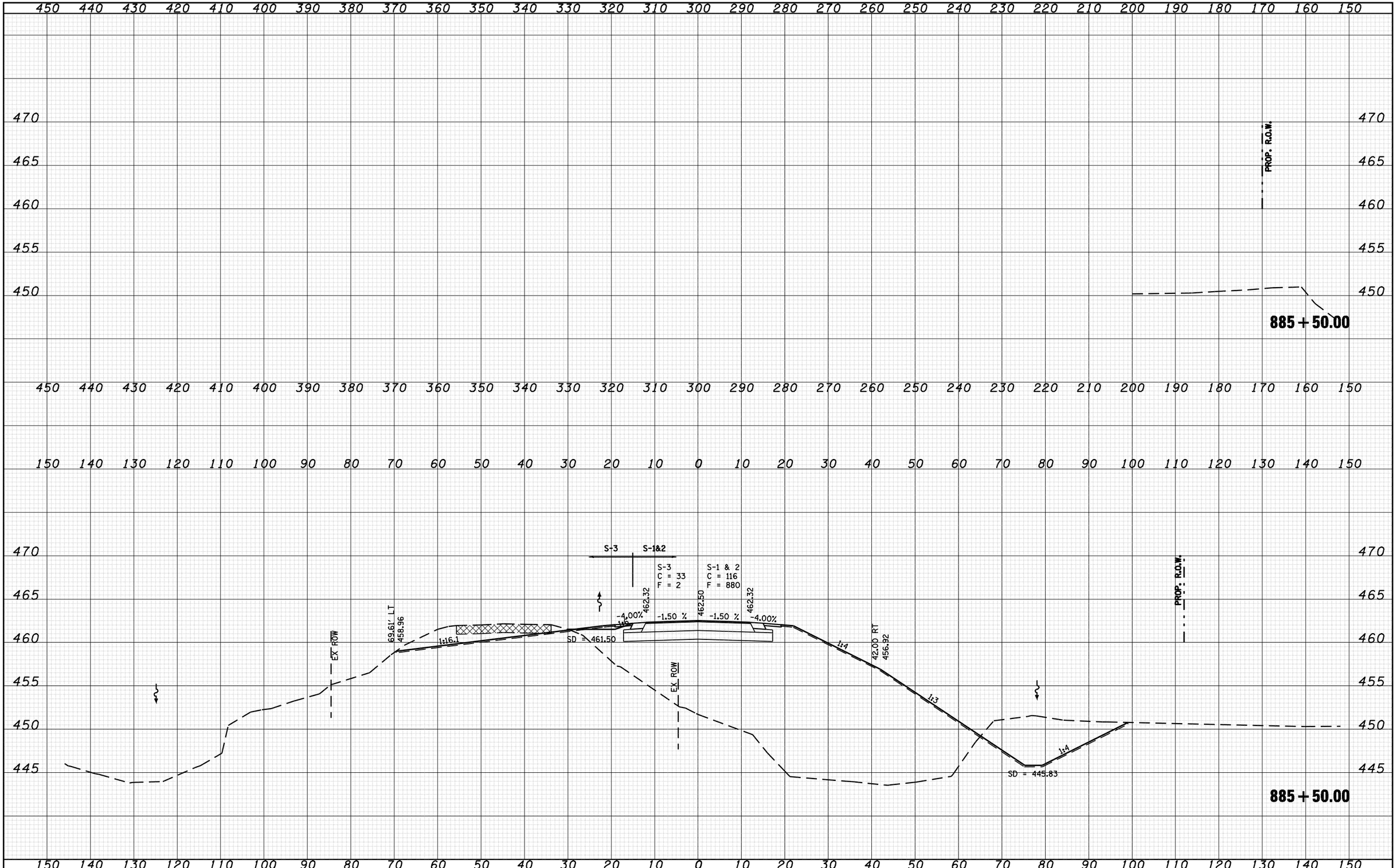
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 885+00.00 TO STA. 885+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	260
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE



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	PLOT DATE = Mar-31-2009 08:08:45AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

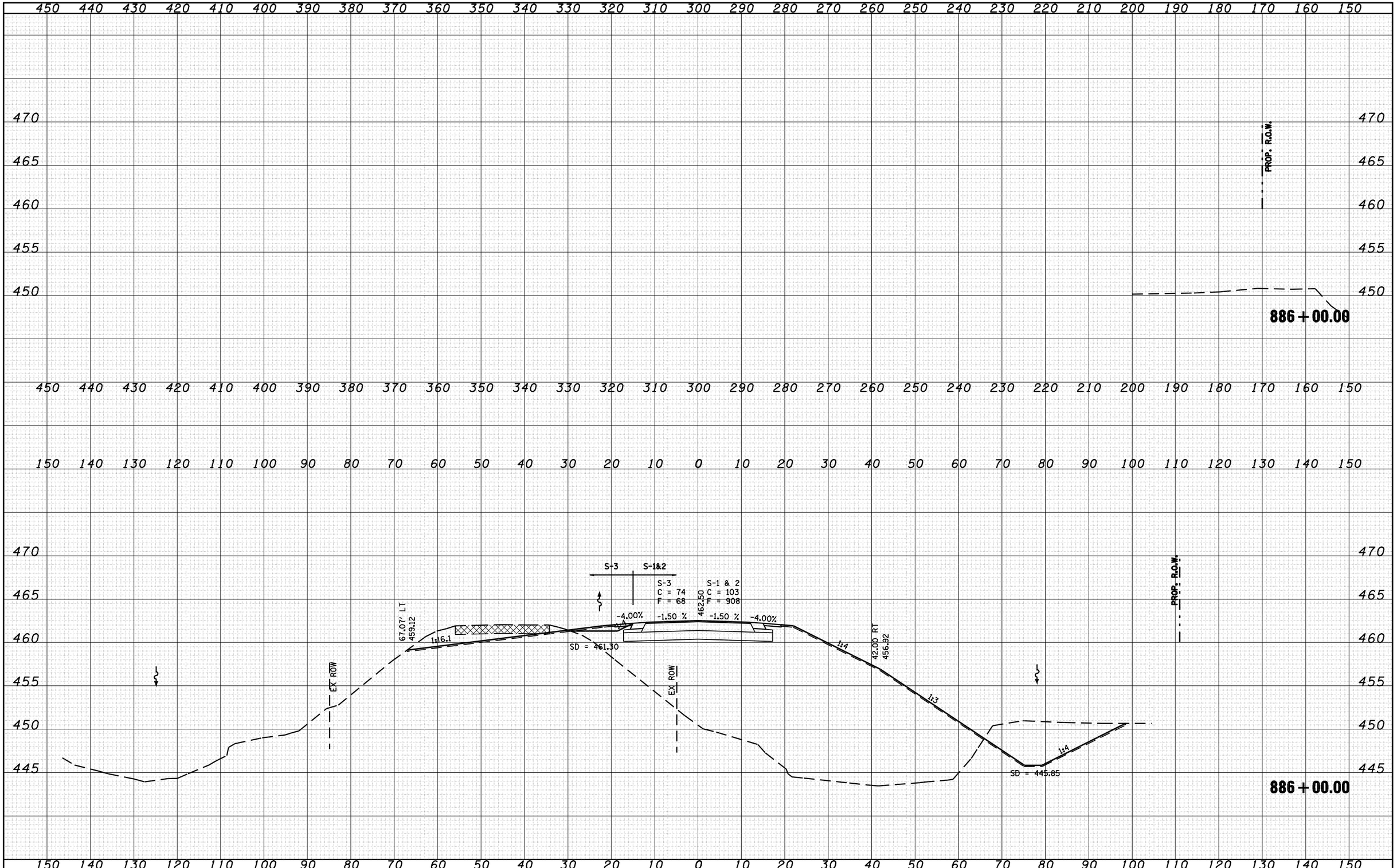
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 885+50.00 TO STA. 885+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	261
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE



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	PLOT DATE = Mar-31-2009 08:08:47AM	DATE -	REVISED -

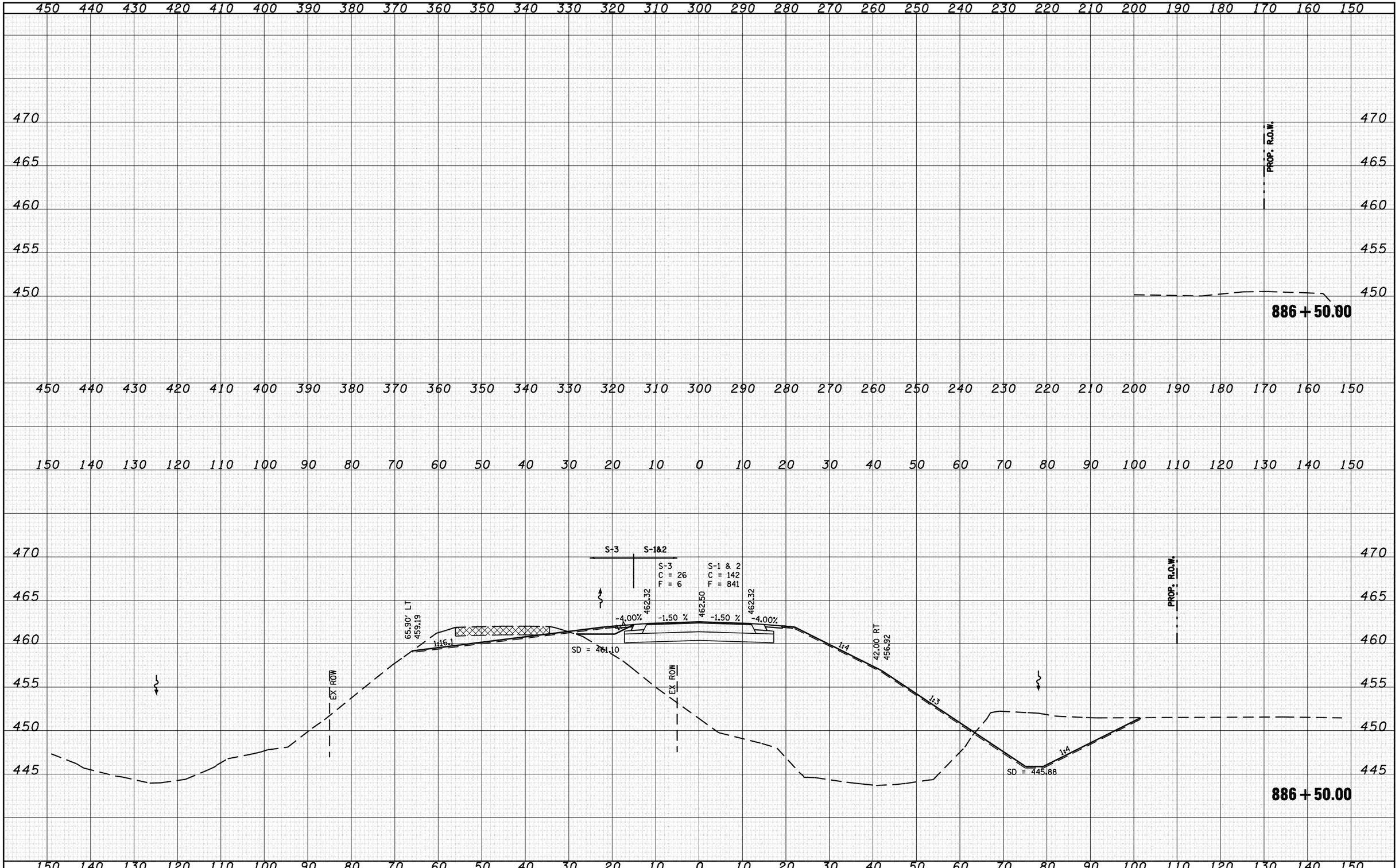
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 886+00.00 TO STA. 886+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	262
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE	BY
ORIGINAL SURVEY	SURVEYED	
	PLOTTED	
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	



ORIGINAL SURVEY	DATE	BY
	SURVEYED	
	PLOTTED	
NOTE BOOK	TEMPLATE	
	AREAS	
NO.	AREAS CHECKED	

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	PLOT DATE = Mar-31-2009 08:08:49AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

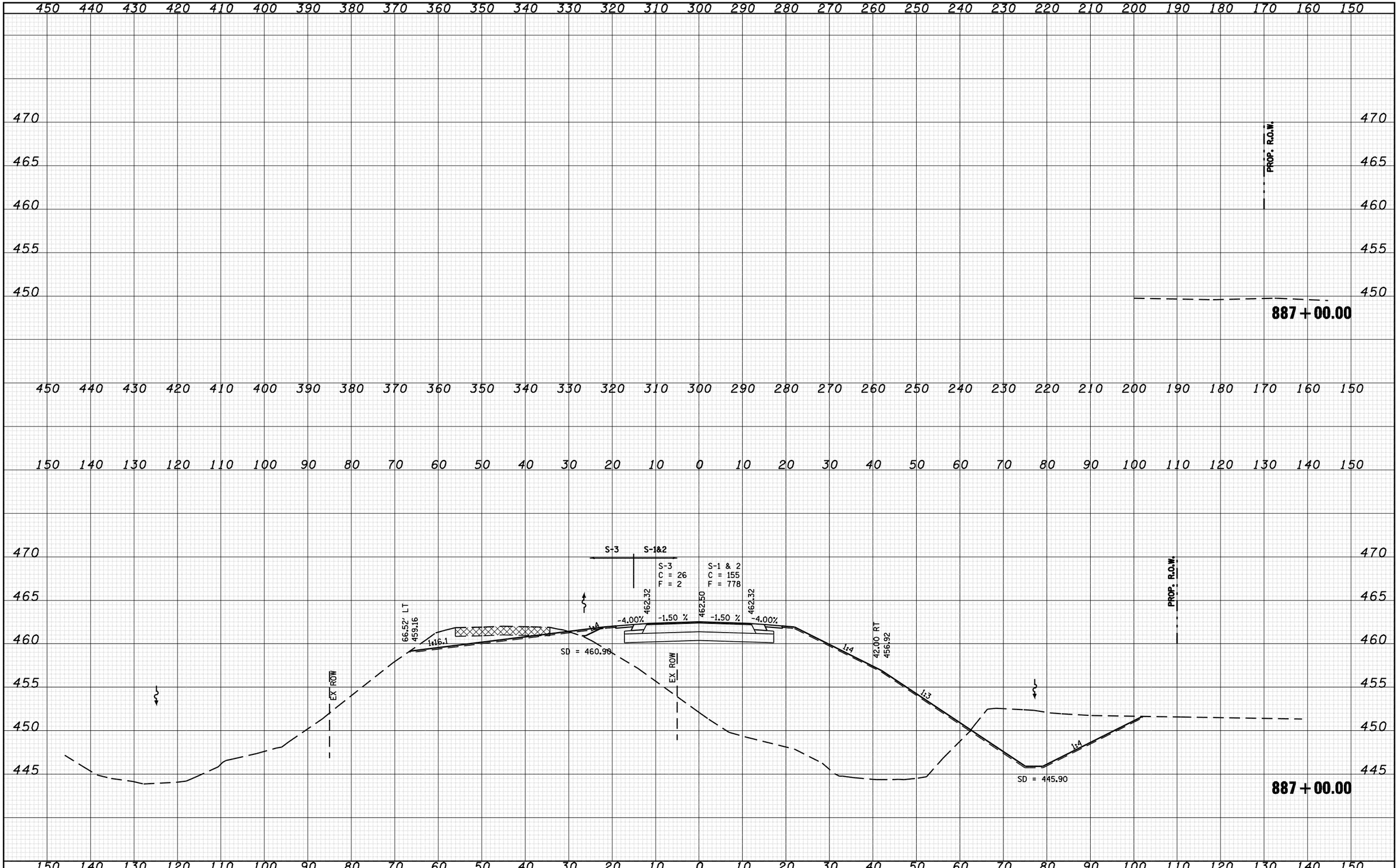
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 886+50.00 TO STA. 886+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	263
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	



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	PLOT DATE = Mar-31-2009 08:08:51AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

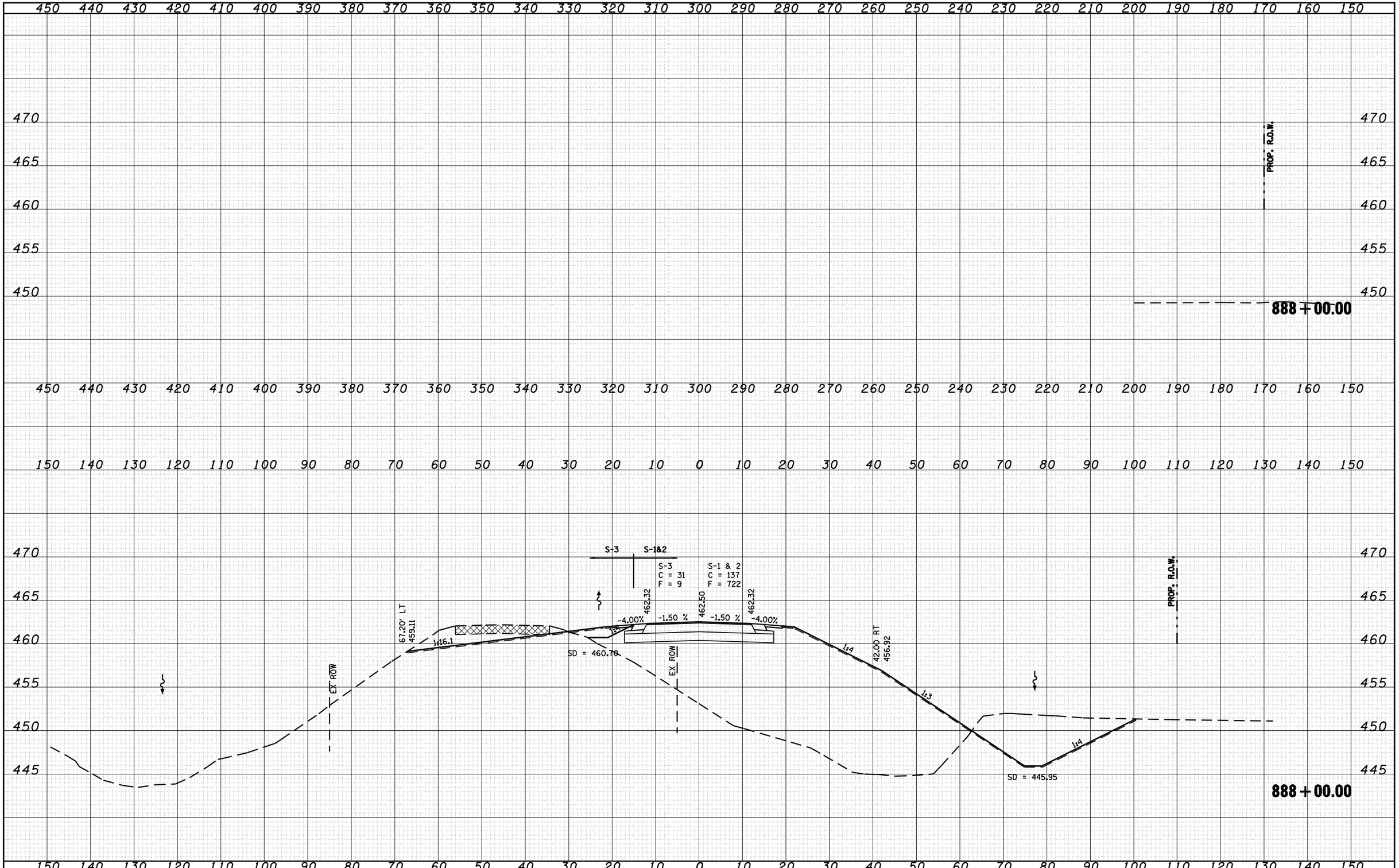
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 887+00.00 TO STA. 887+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	264
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

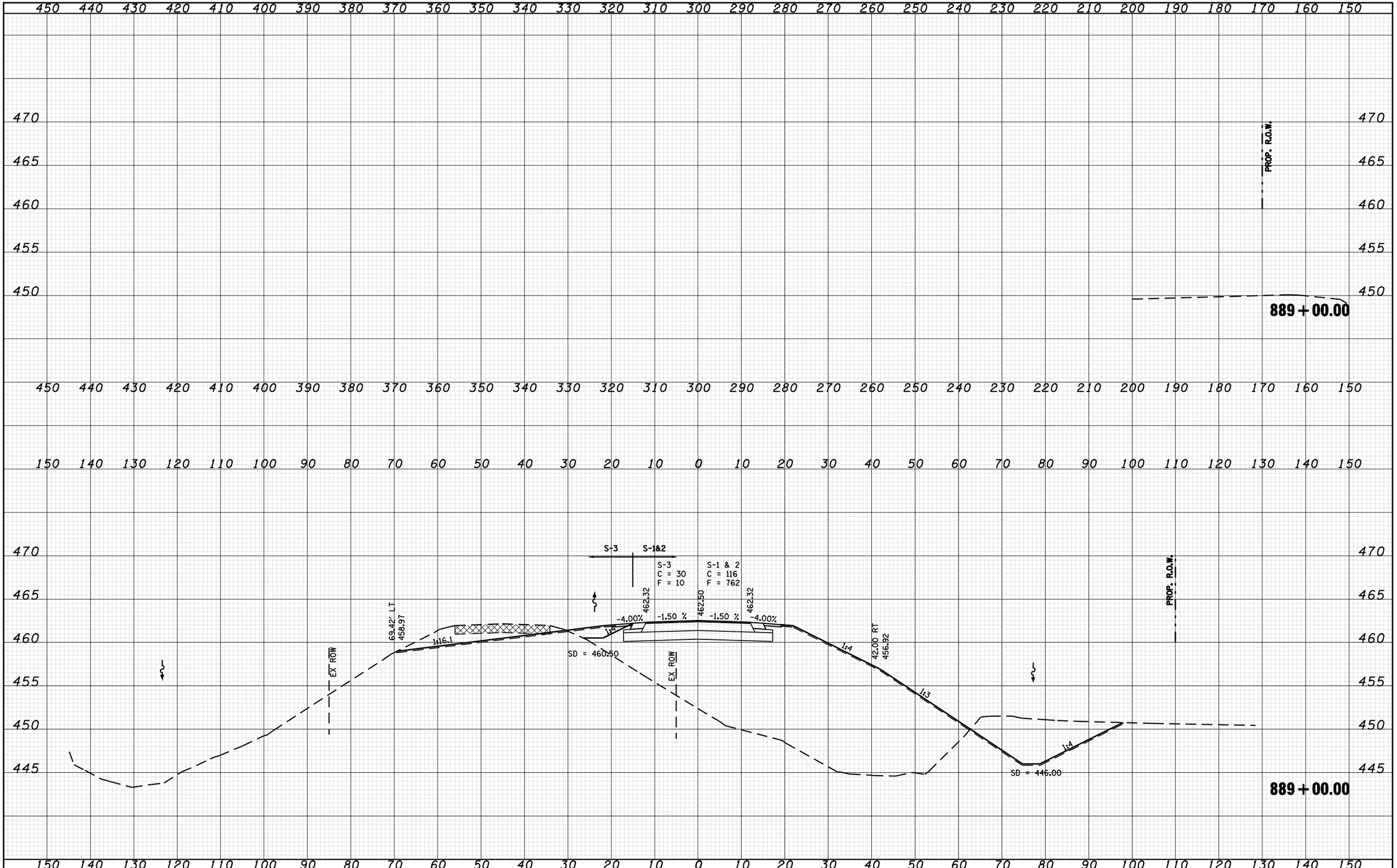
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 888+00.00 TO STA. 888+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	265
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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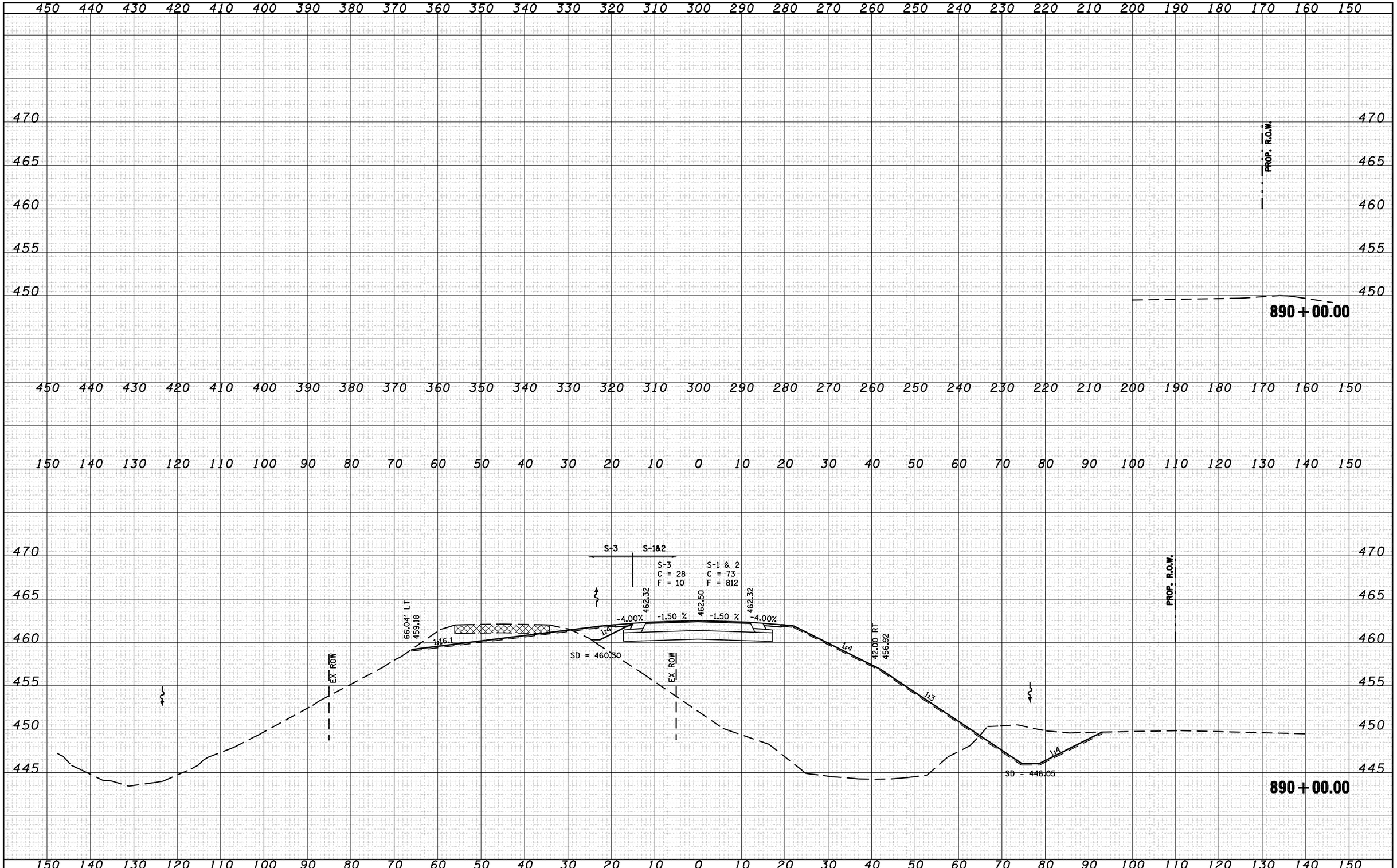
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 889+00.00 | TO STA. 889+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	266
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
	TEMPLATE		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

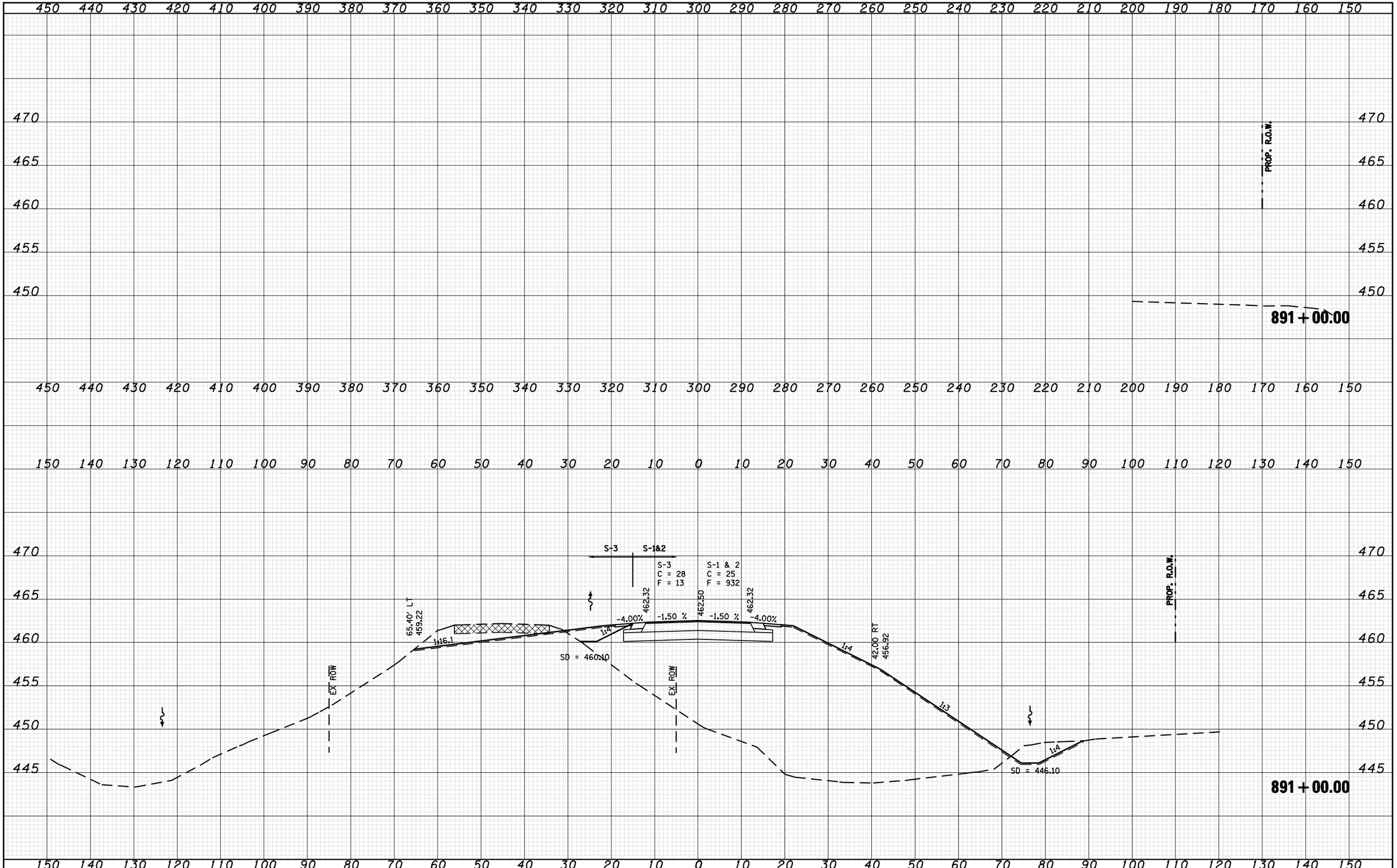
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 890+00.00 TO STA. 890+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	267
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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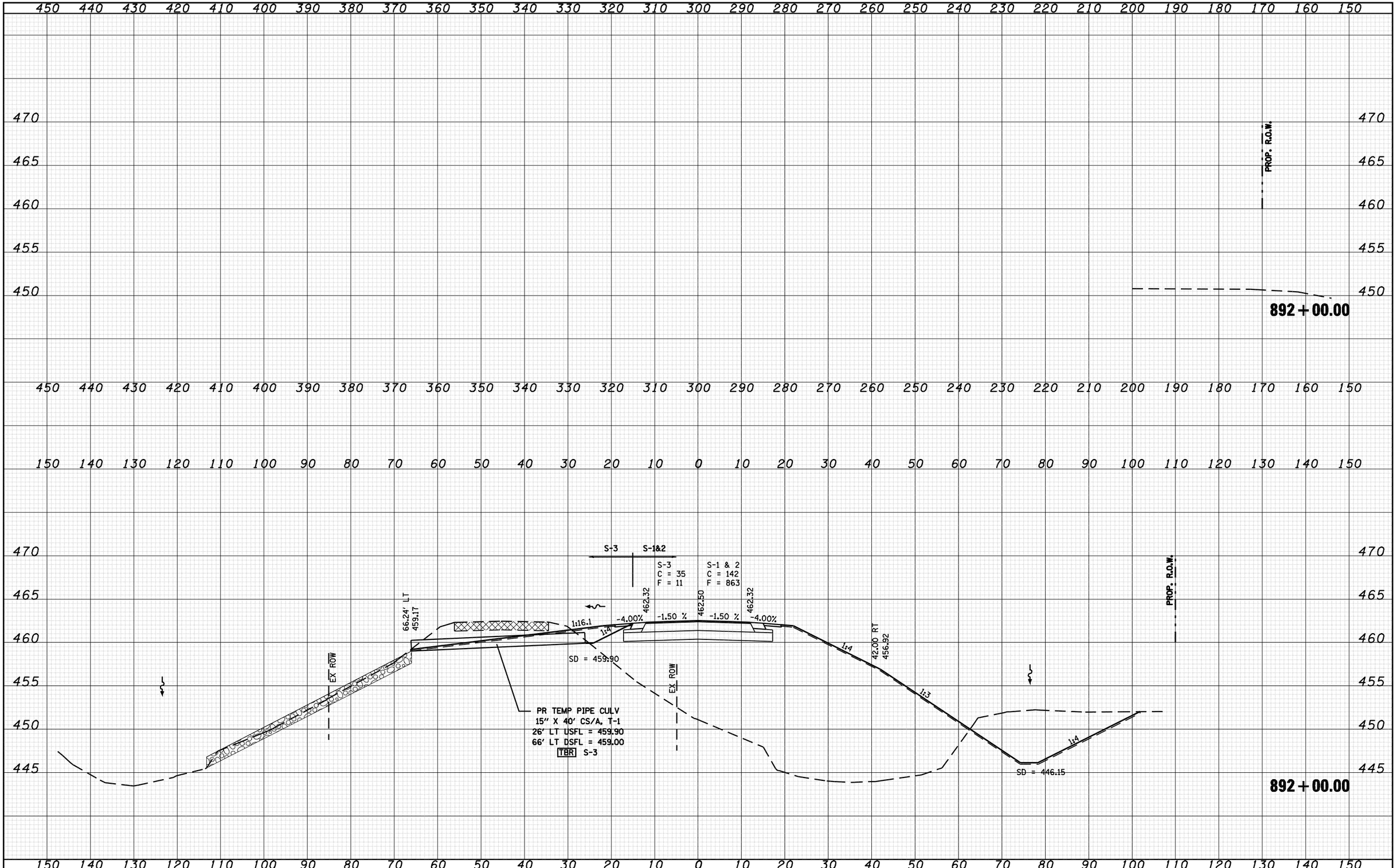
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 891+00.00 | TO STA. 891+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	268
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

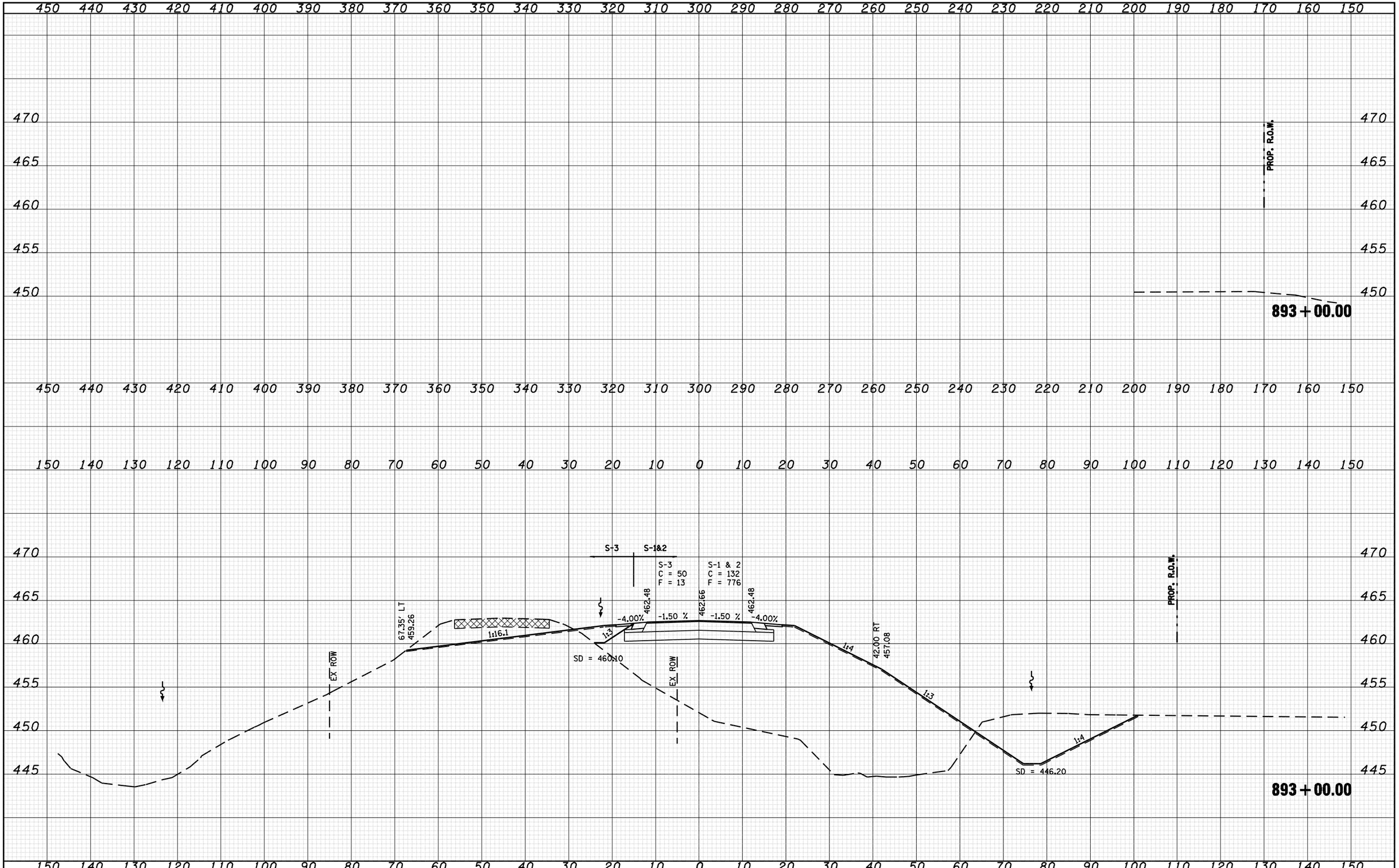
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 892+00.00 TO STA. 892+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	269
		CONTRACT NO. 72A76		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	



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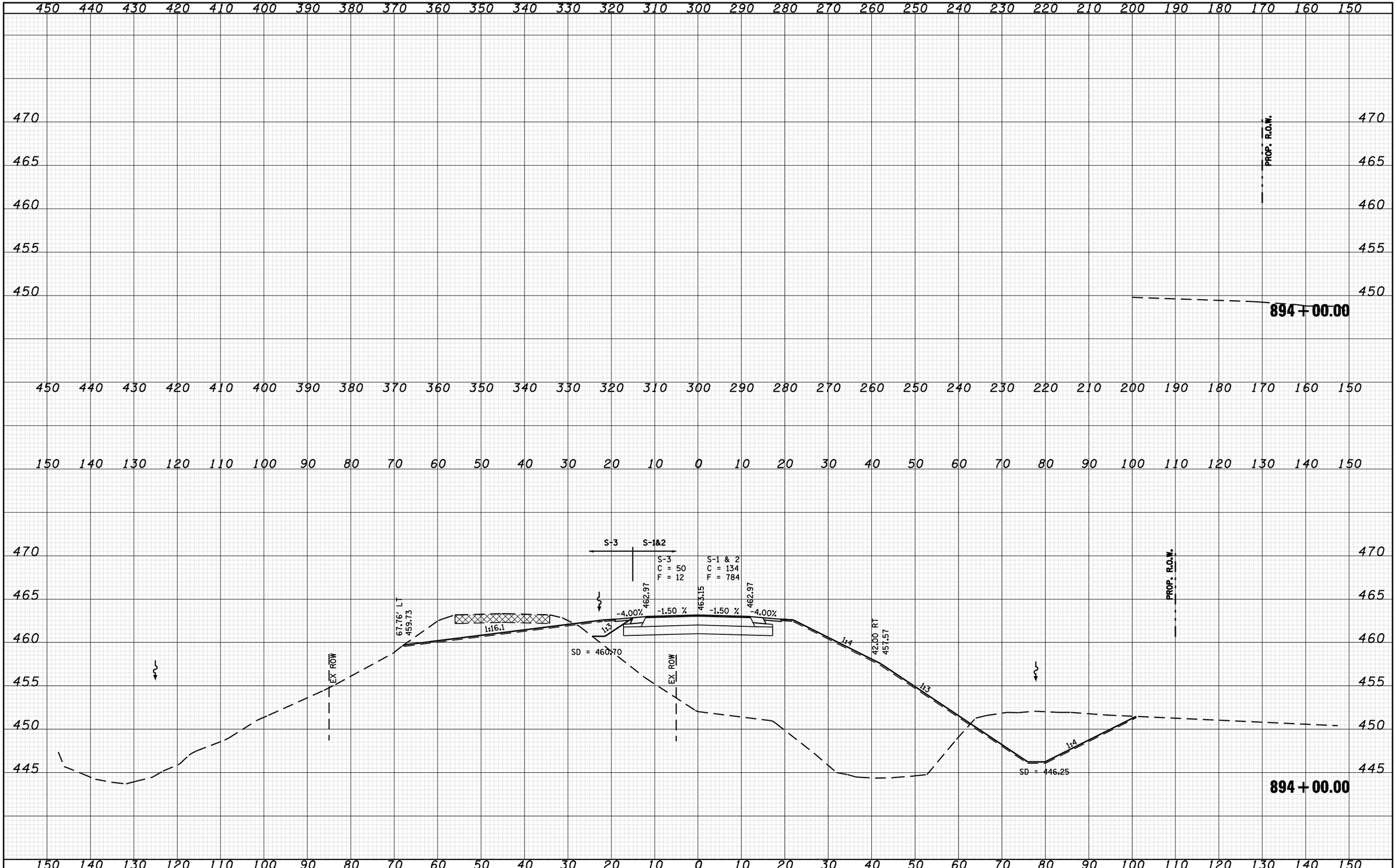
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 893+00.00 TO STA. 893+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	270
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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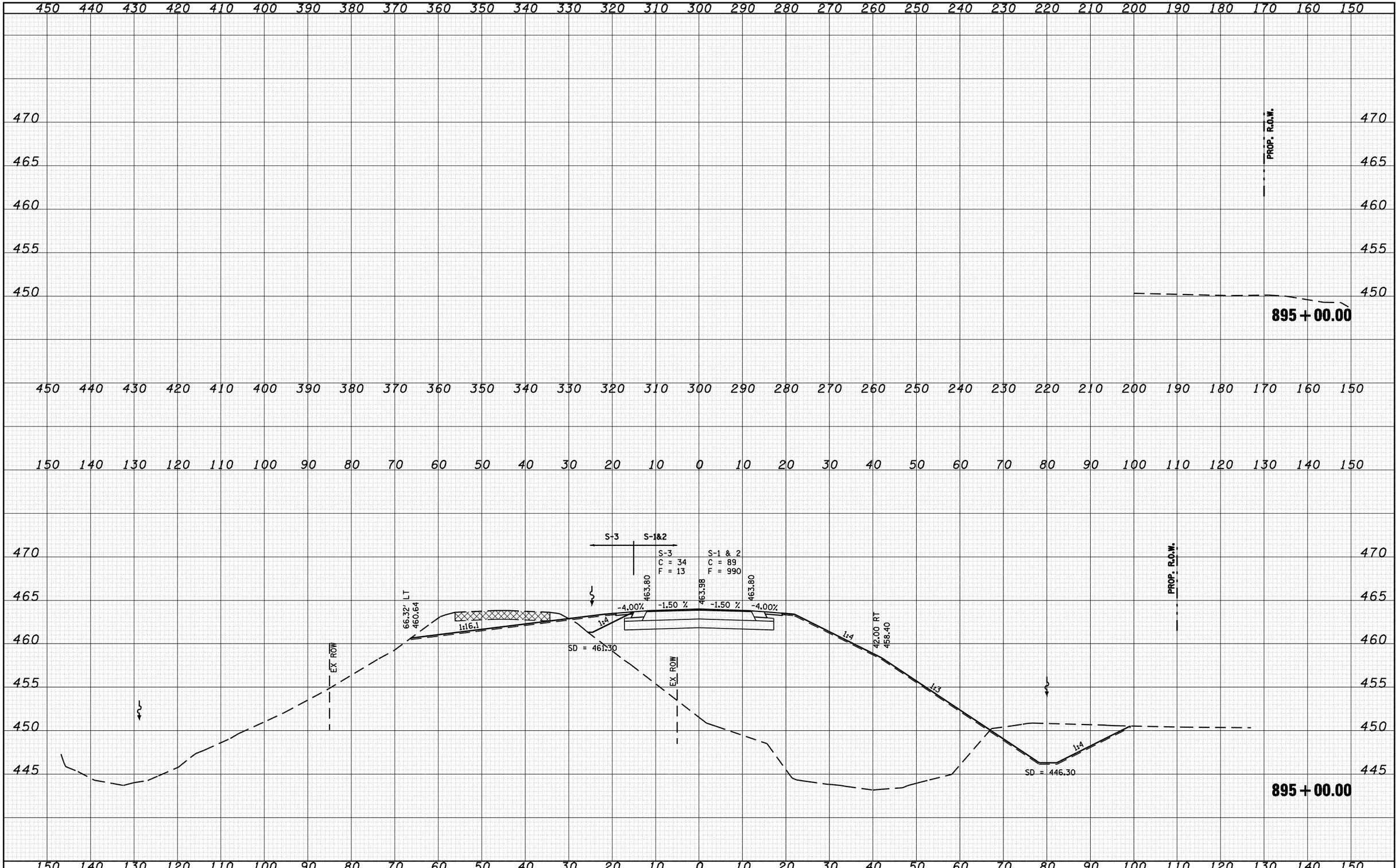
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 894+00.00 | TO STA. 894+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	271
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	



ORIGINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

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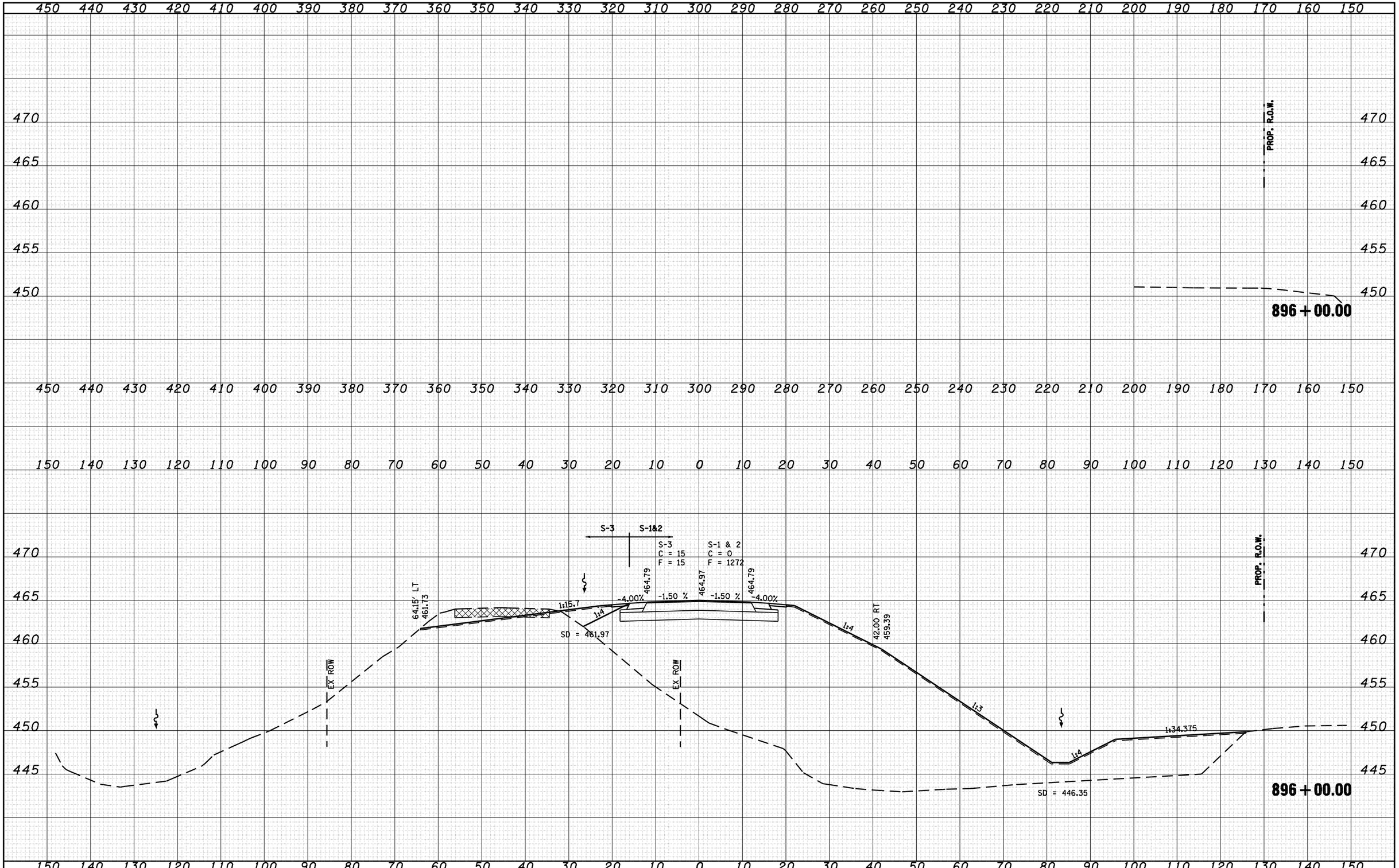
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 895+00.00 TO STA. 895+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	272
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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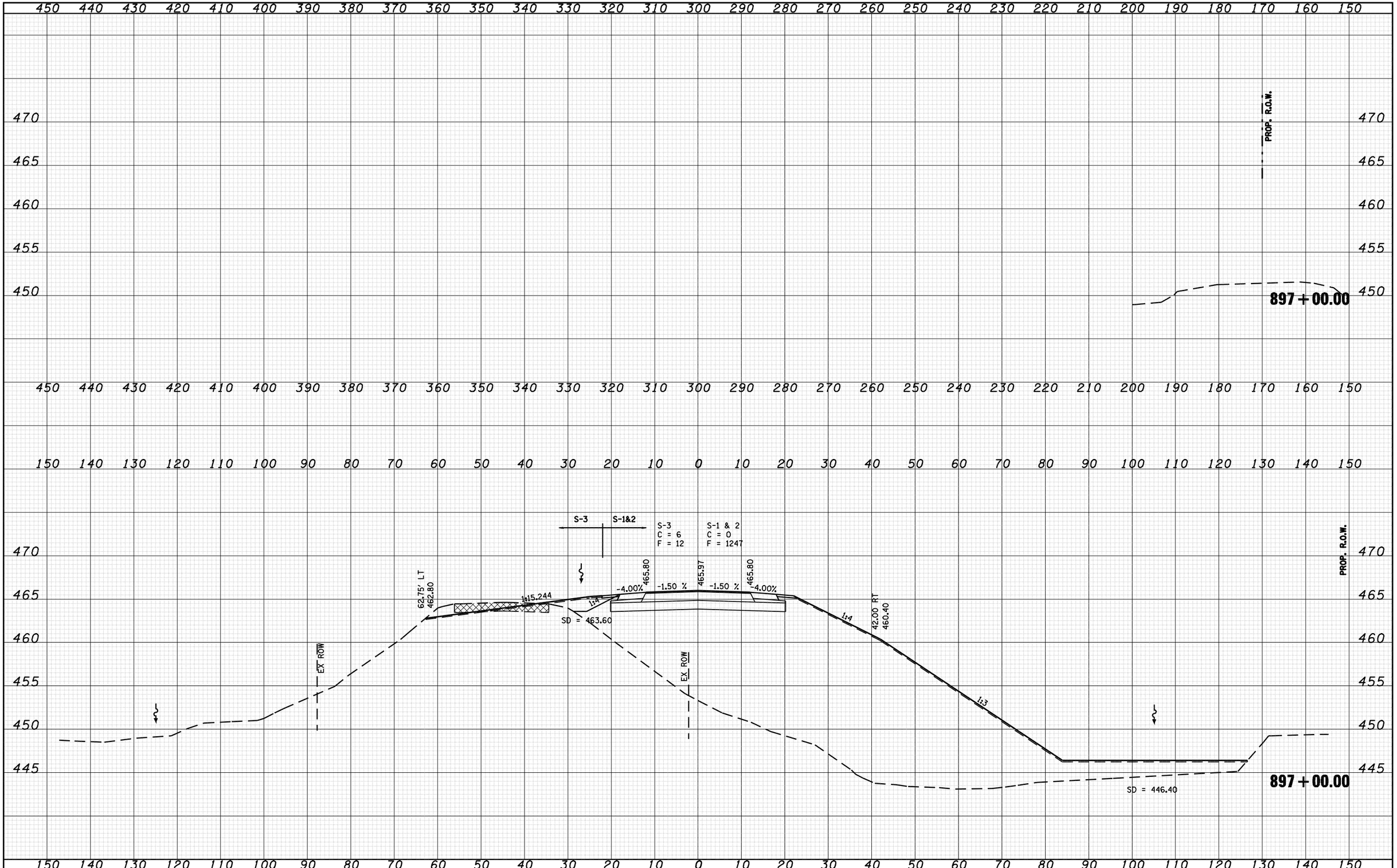
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 896+00.00 TO STA. 896+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	273
		CONTRACT NO. 72A76		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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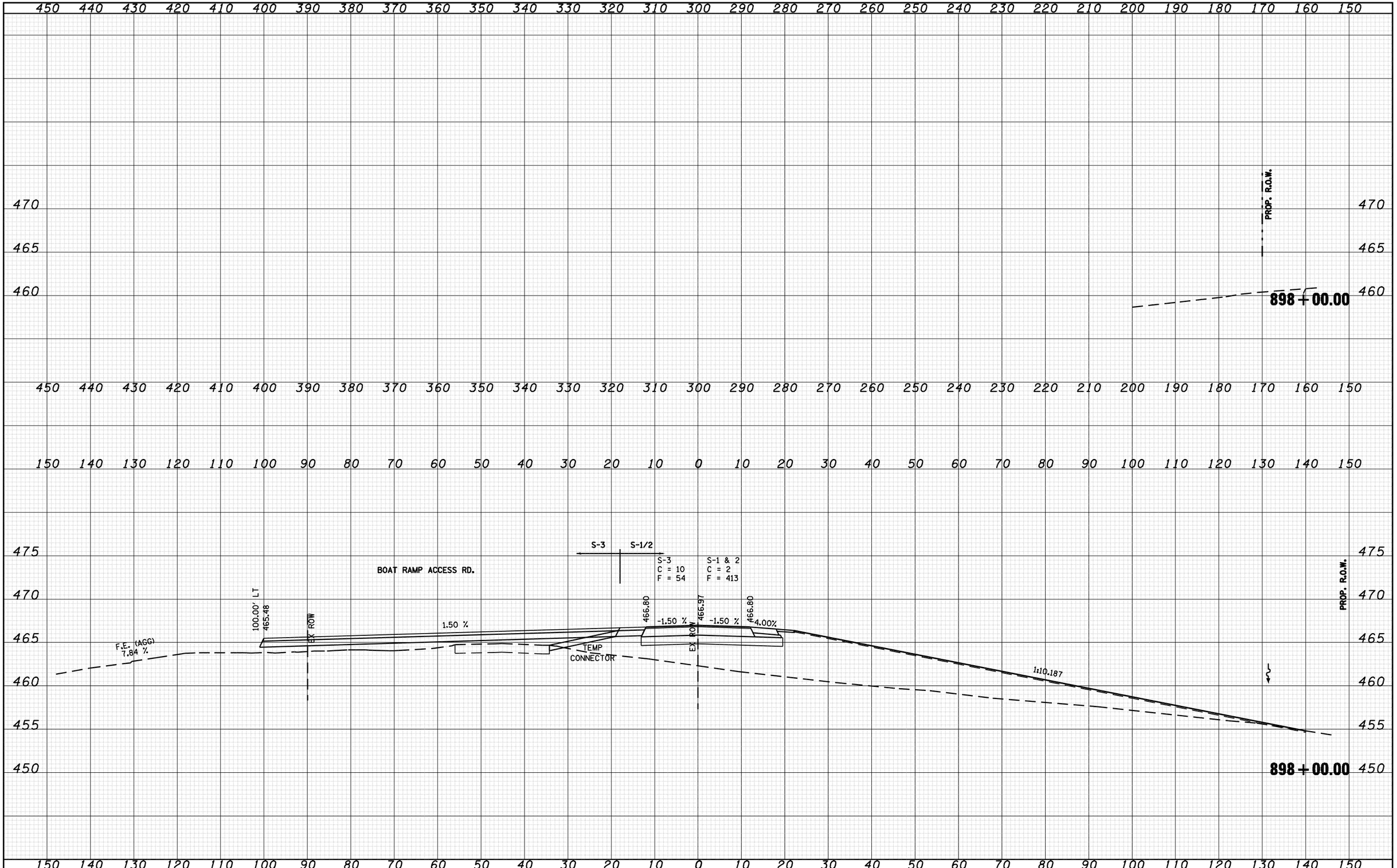
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 897+00.00 TO STA. 897+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	274
		CONTRACT NO. 72A76		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001altltmj-sheetsA.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

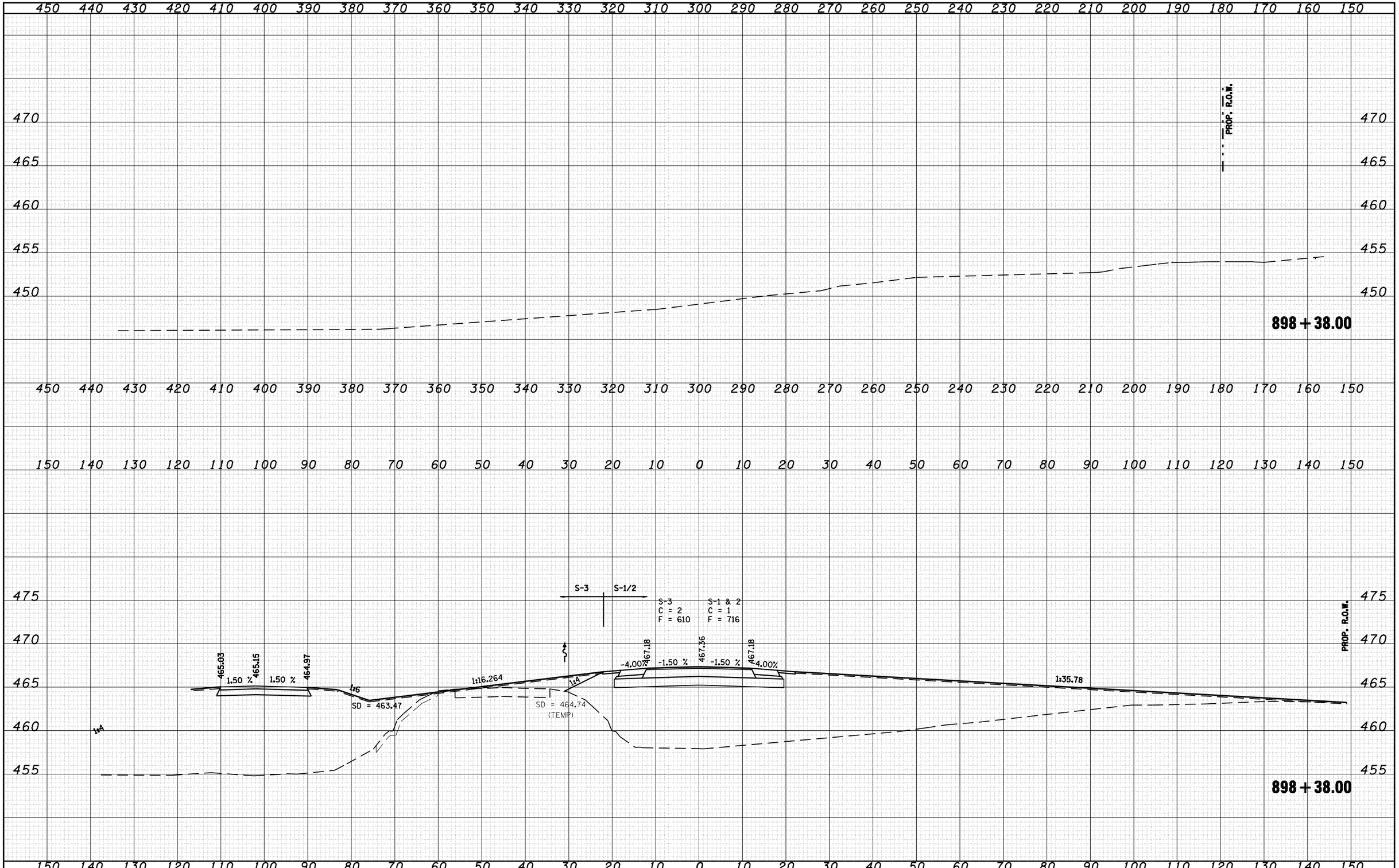
SCALE: | SHEET NO. OF SHEETS | STA. 898+00.00 TO STA. 898+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	275

CONTRACT NO. 72A76

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED	BY	DATE
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 898+38.00 | TO STA. 898+38.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	276
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

450 440 430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

470 465 460 455

PROP. R.O.W.

898 + 50.00

450 440 430 420 410 400 390 380 370 360 350 340 330 320 310 300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

475 470 465 460 455 450

S-3 S-1/2

S-3
C = 53
F = 462

S-1 & 2
C = 1
F = 1175

464.87 1.50 % 464.99 1.50 % 464.86 4.00 %

467.29 -4.00% -1.50 % 467.47 -1.50 % 467.29 4.00%

1:3 1:4 1:2 1:9 1:33

SD = 464.50
(TEMP)

PR PIPE CULVERT
15" x 45', CS/A, T-1
79' LT, USFL= 461.50
124' LT, DSFL= 461.00

EX ROW EX ROW

PROP. R.O.W.

898 + 50.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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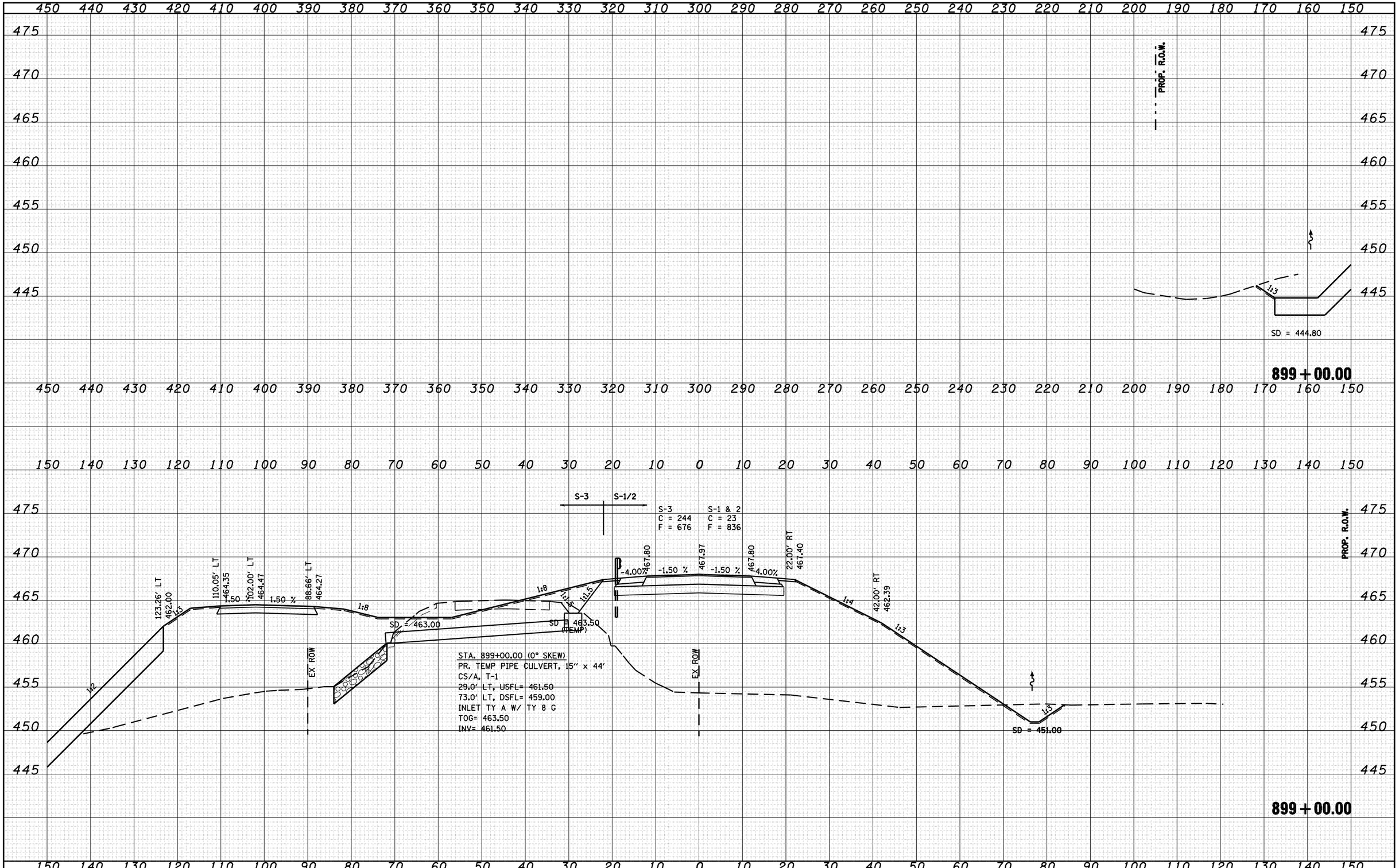
	PLOT DATE = Mar-31-2009 08:09:31AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 898+50.00 | TO STA. 898+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	277
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
NO.		

SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED

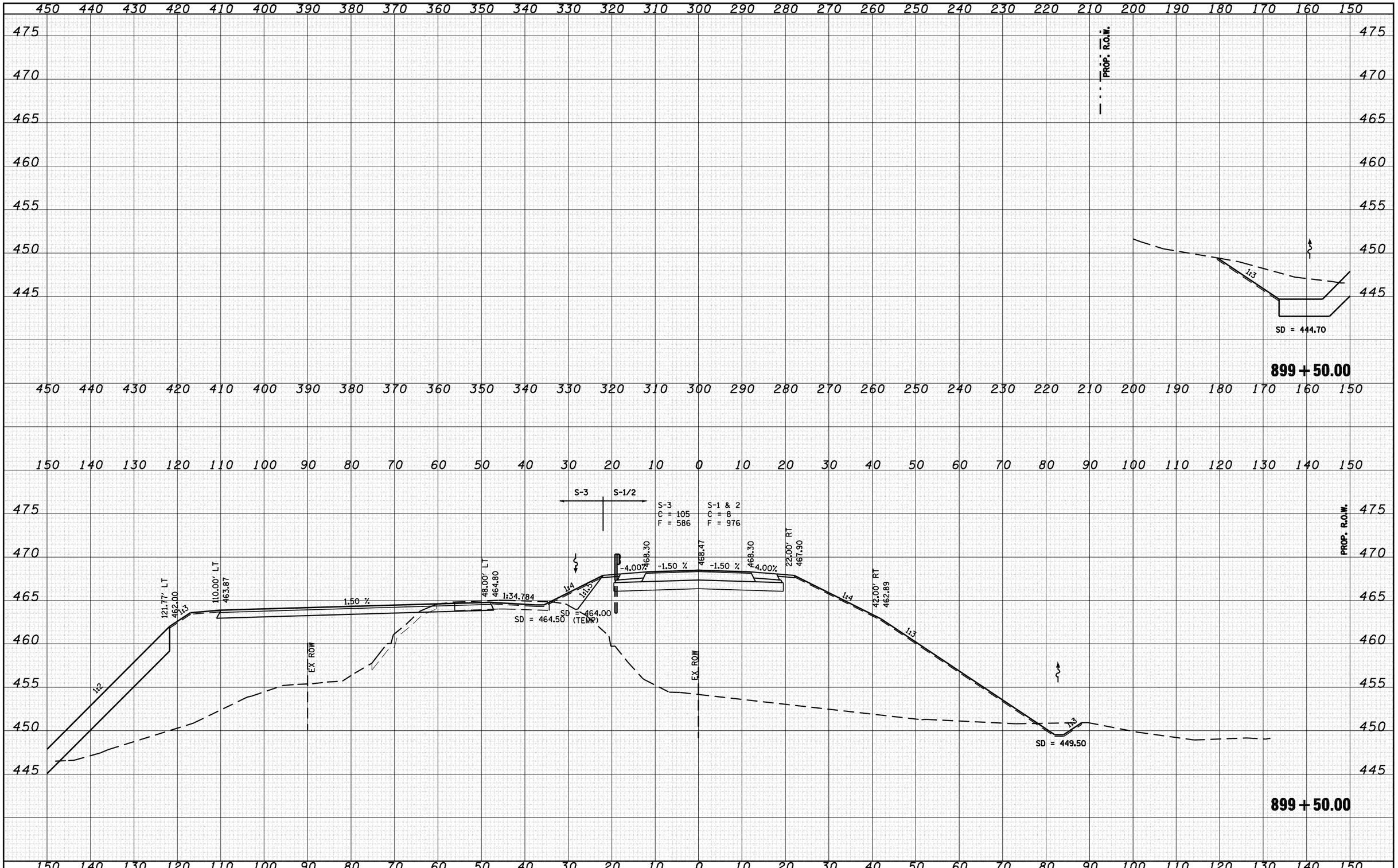
FILE NAME =	USER NAME = laughlinrl	DESIGNED -	REVISED -
c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = Mar-31-2009 08:09:33AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 899+00.00 TO STA. 899+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	278
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

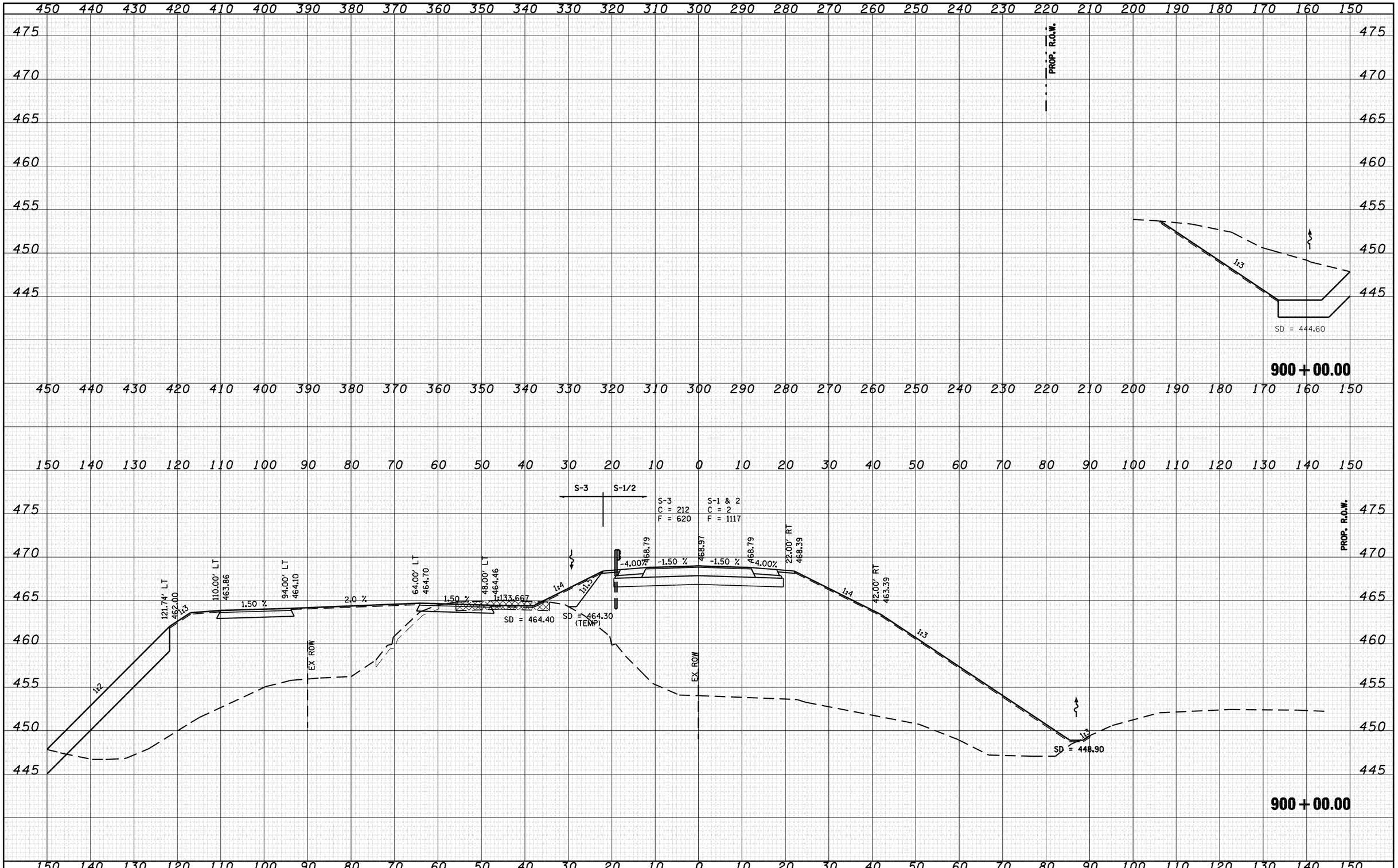
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 899+50.00 TO STA. 899+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	279
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	



FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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	PLOT DATE = Mar-31-2009 08:09:37AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

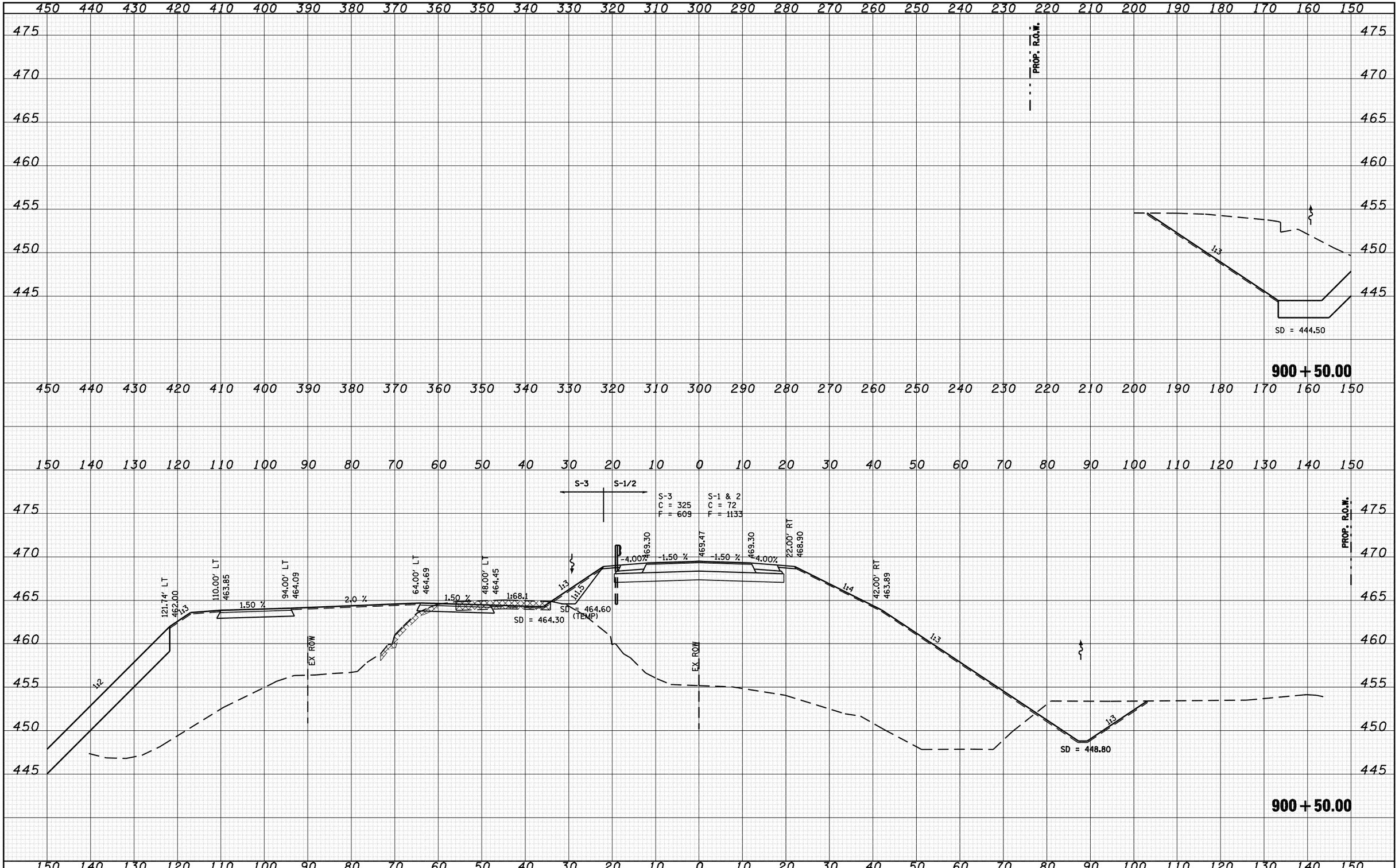
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 900+00.00 TO STA. 900+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	280
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	AREAS CHECKED

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
NO.	AREAS CHECKED



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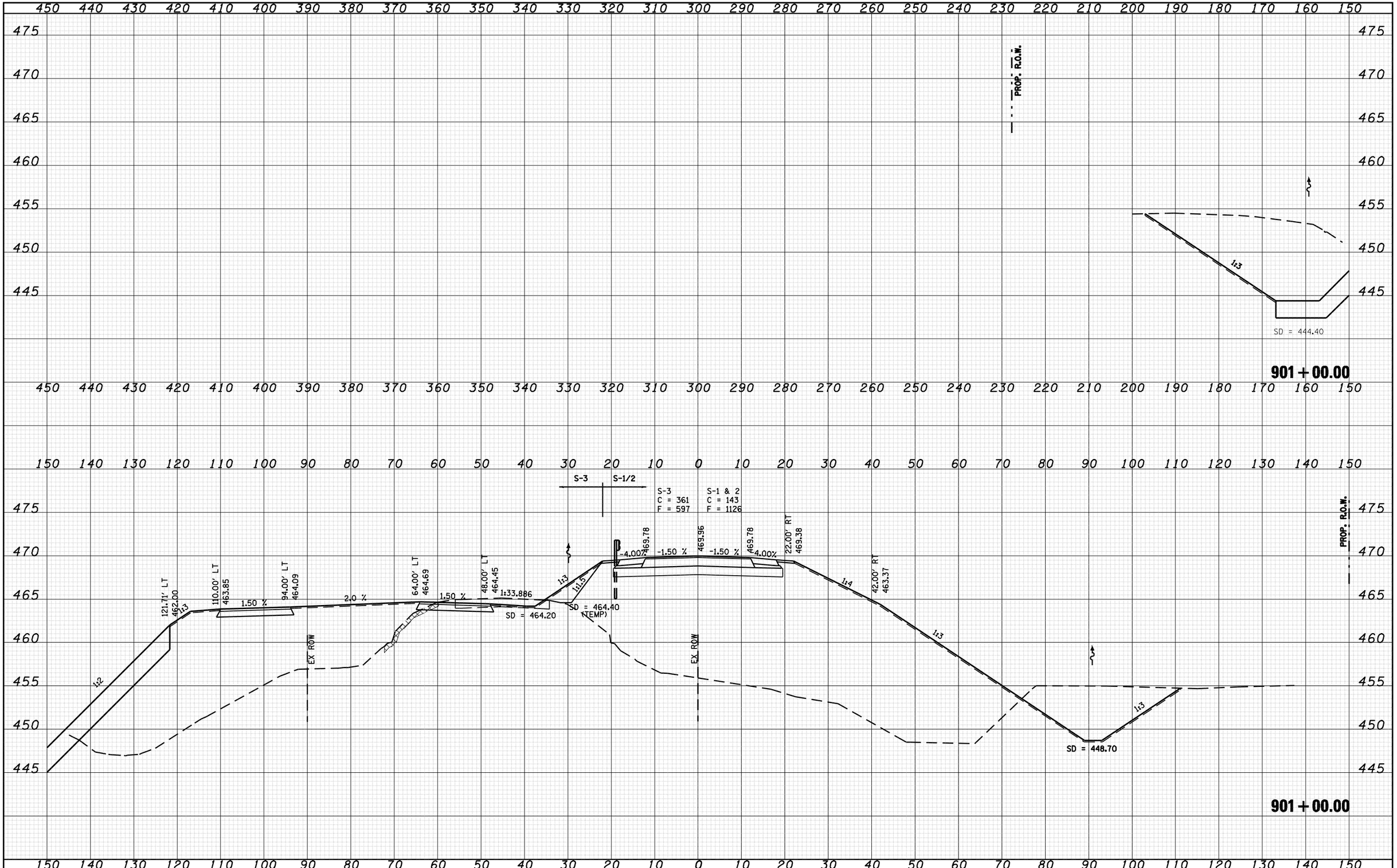
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 900+50.00 TO STA. 900+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	281
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED
	PLOTTED
	TEMPLATE
	AREAS
	AREAS CHECKED



ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED
	PLOTTED
	TEMPLATE
	AREAS
	AREAS CHECKED

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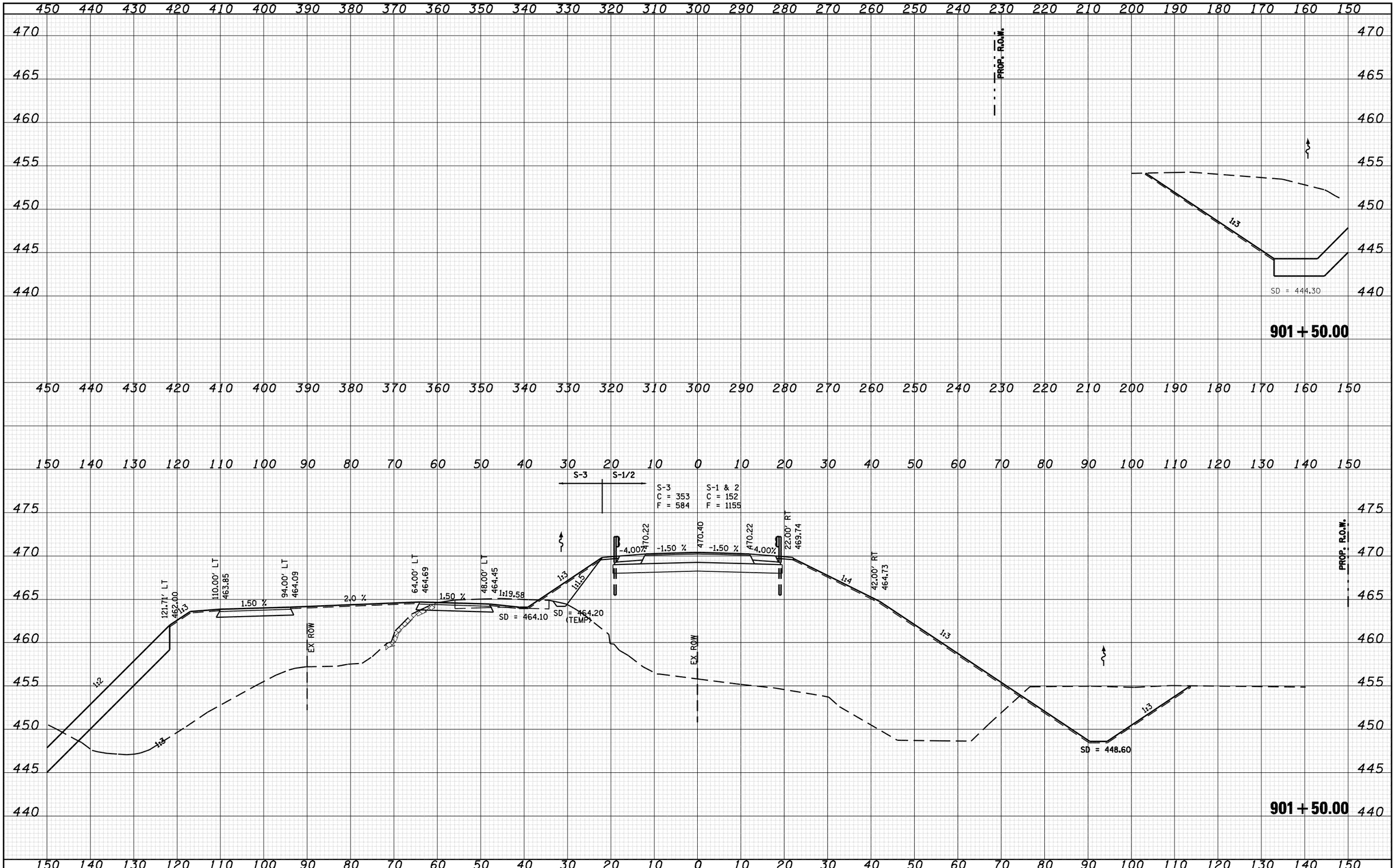
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 901+00.00 TO STA. 901+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	282
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	DATE
NOTE BOOK	BY
NO.	SURVEYED
	PLOTTED
	TEMPLATE
	AREAS
	AREAS CHECKED



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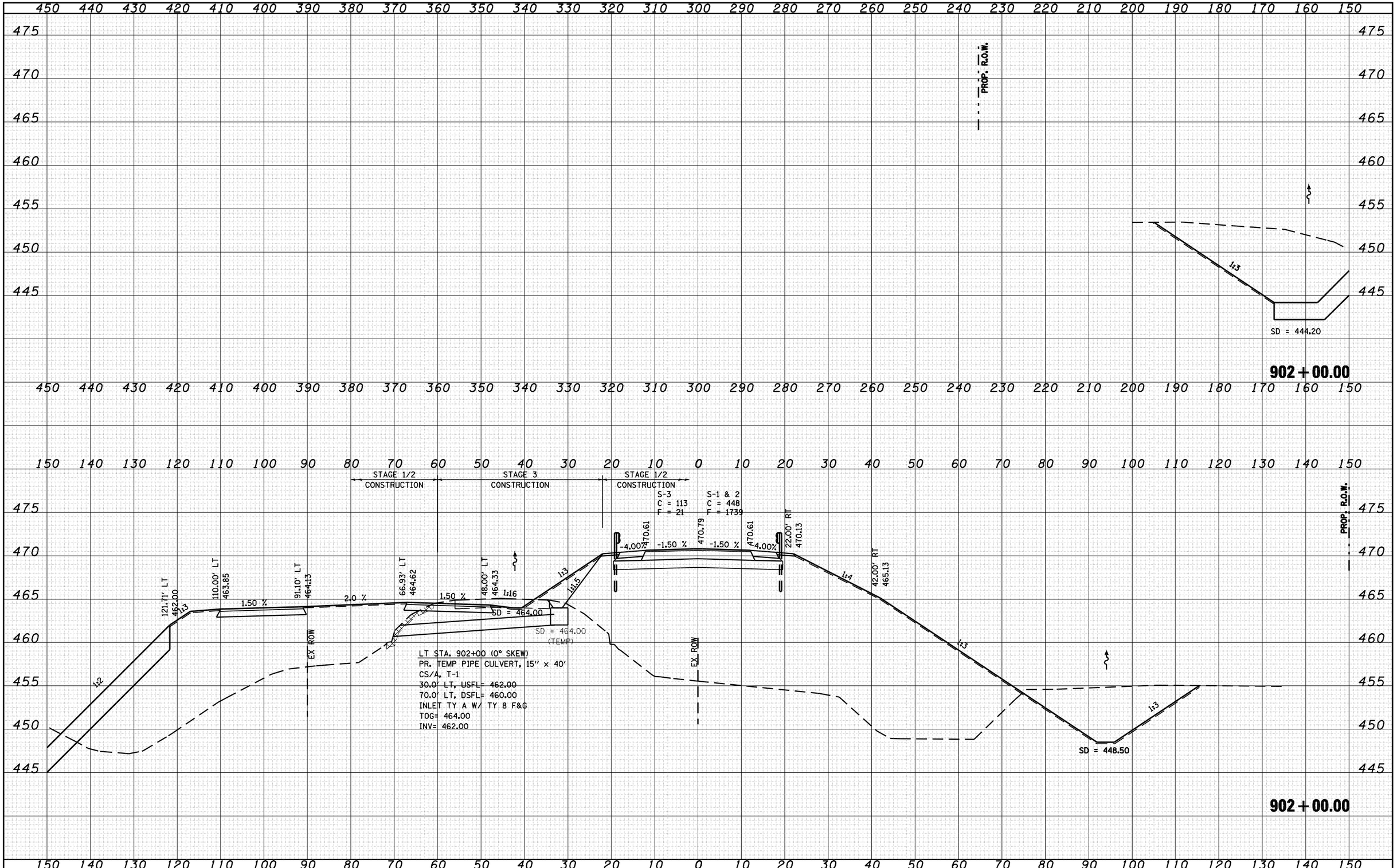
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 901+50.00 TO STA. 901+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	283
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	DATE
FINAL SURVEY	BY
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
NO.	AREAS CHECKED



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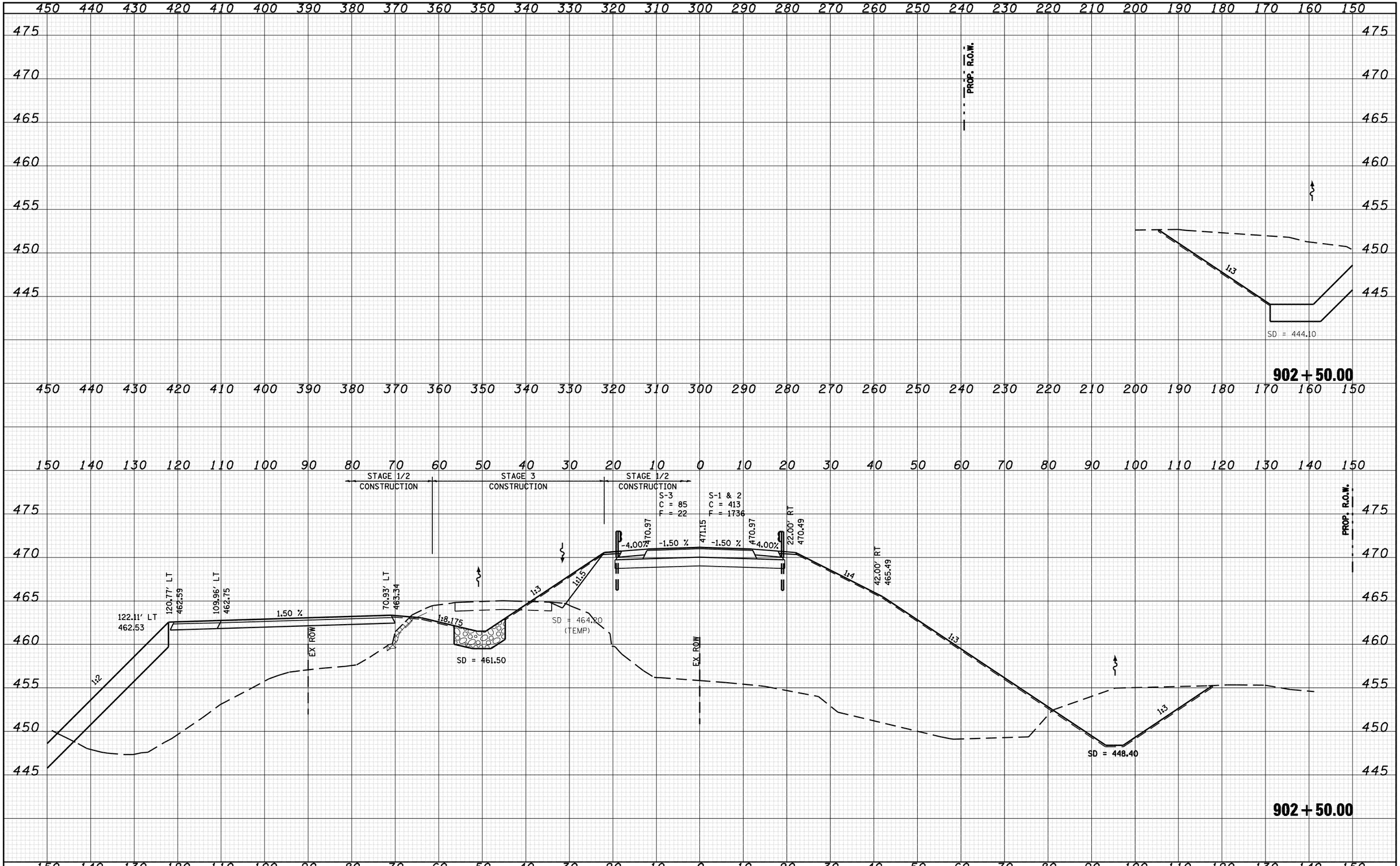
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 902+00.00 TO STA. 902+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	284
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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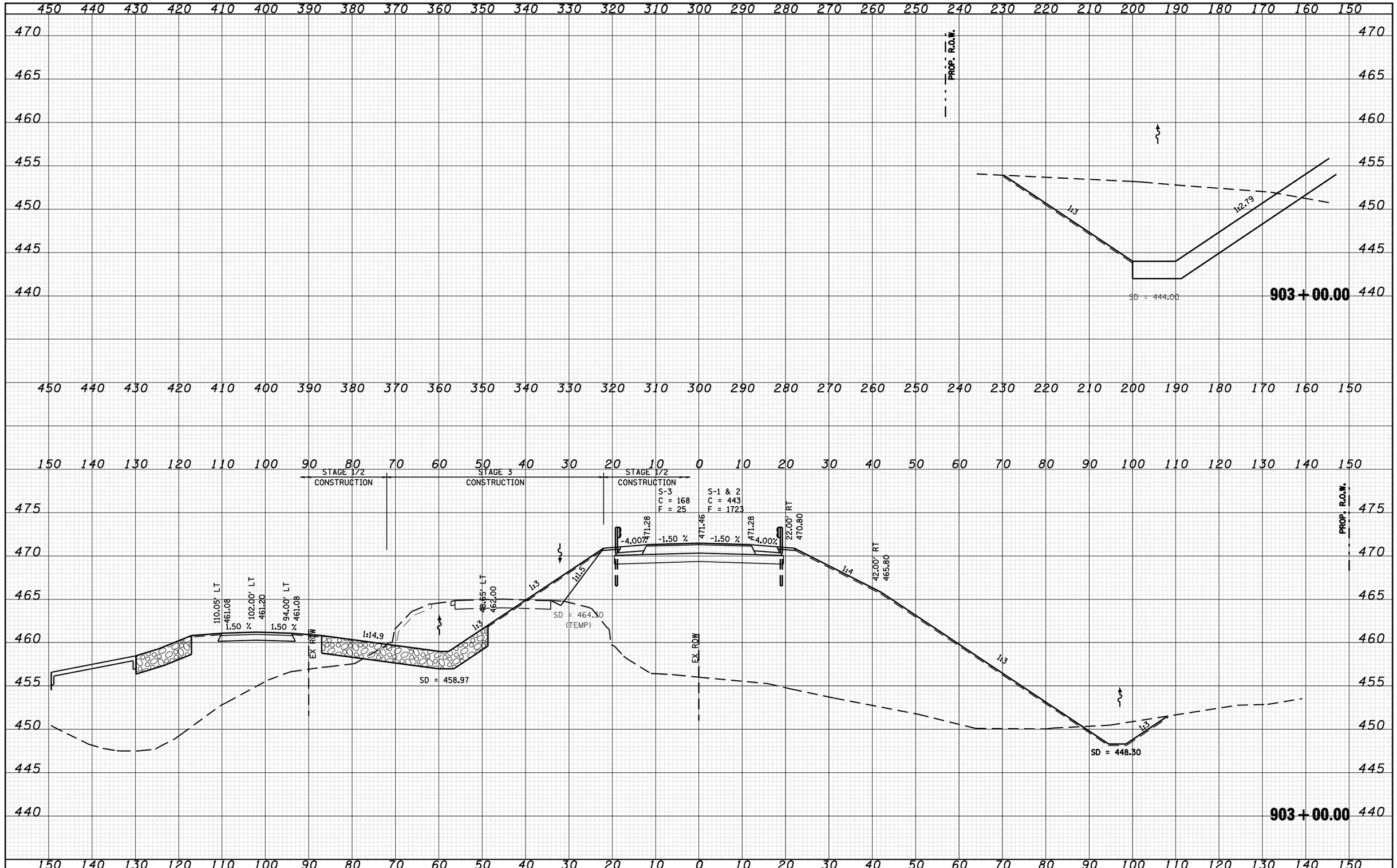
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 902+50.00 TO STA. 902+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	285
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 903+00.00 TO STA. 903+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	286
		CONTRACT NO. 72A76		

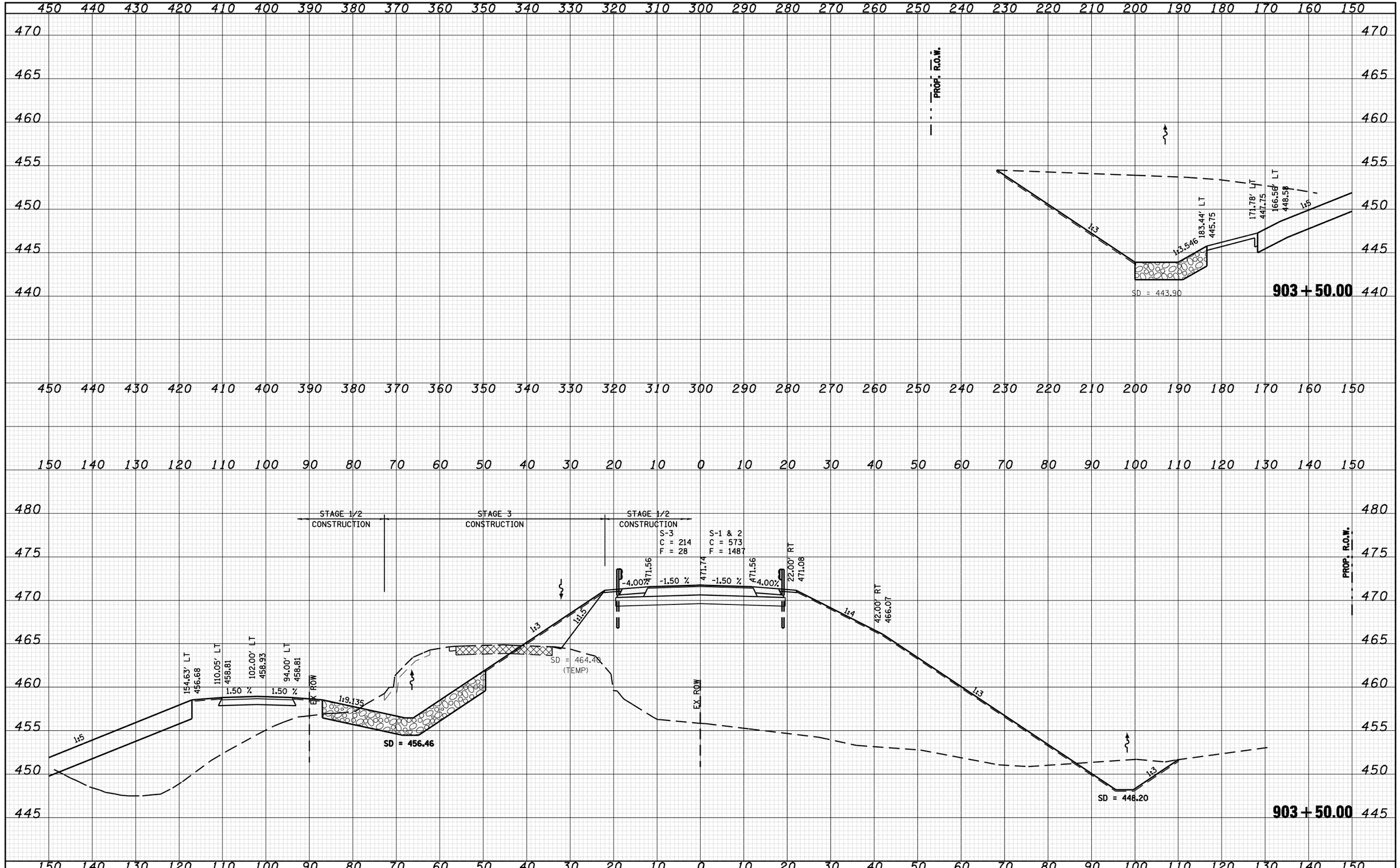
FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE



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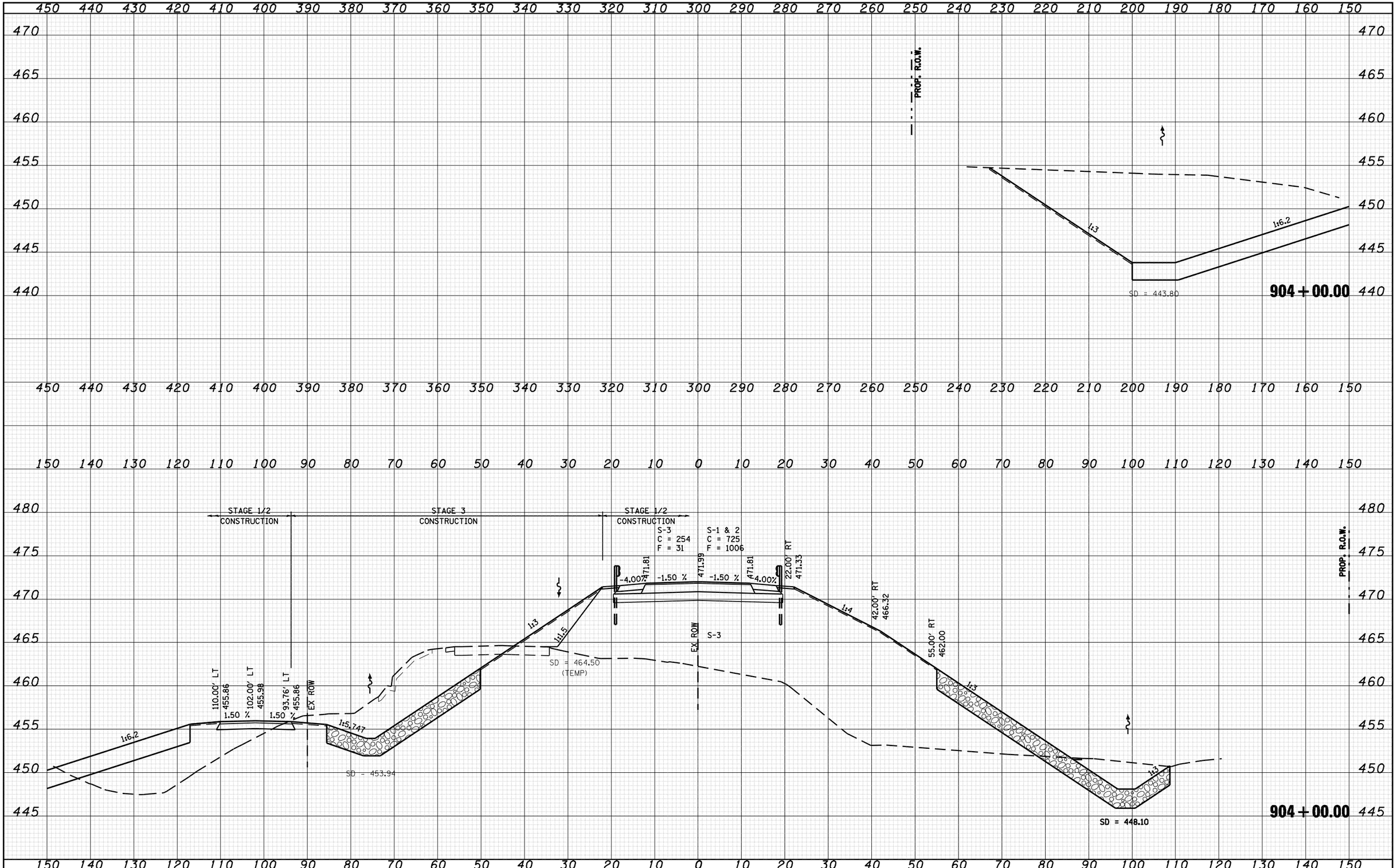
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 903+50.00 TO STA. 903+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	287
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

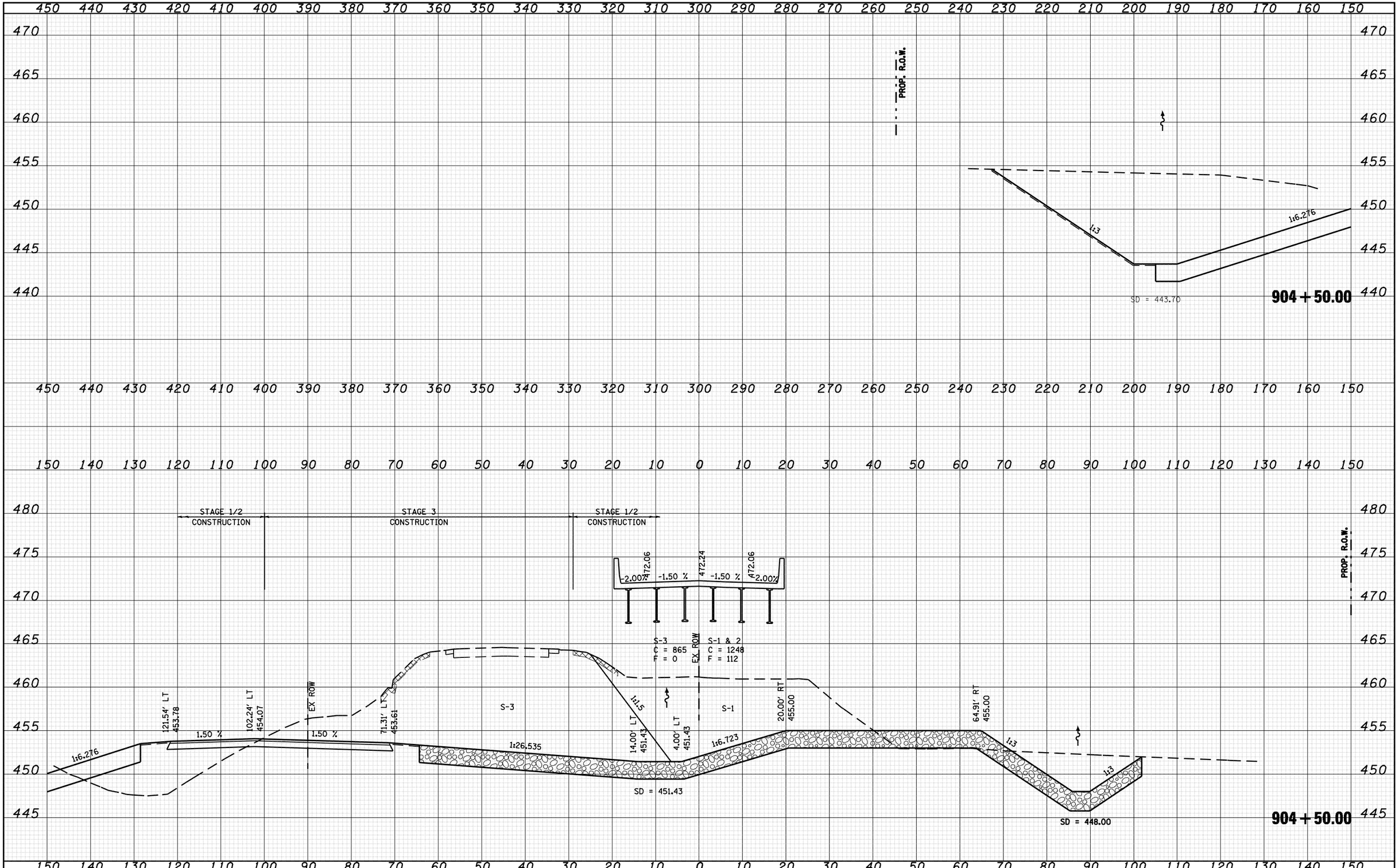
SCALE: | SHEET NO. OF SHEETS | STA. 904+00.00 TO STA. 904+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	288
		CONTRACT NO. 72A76		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

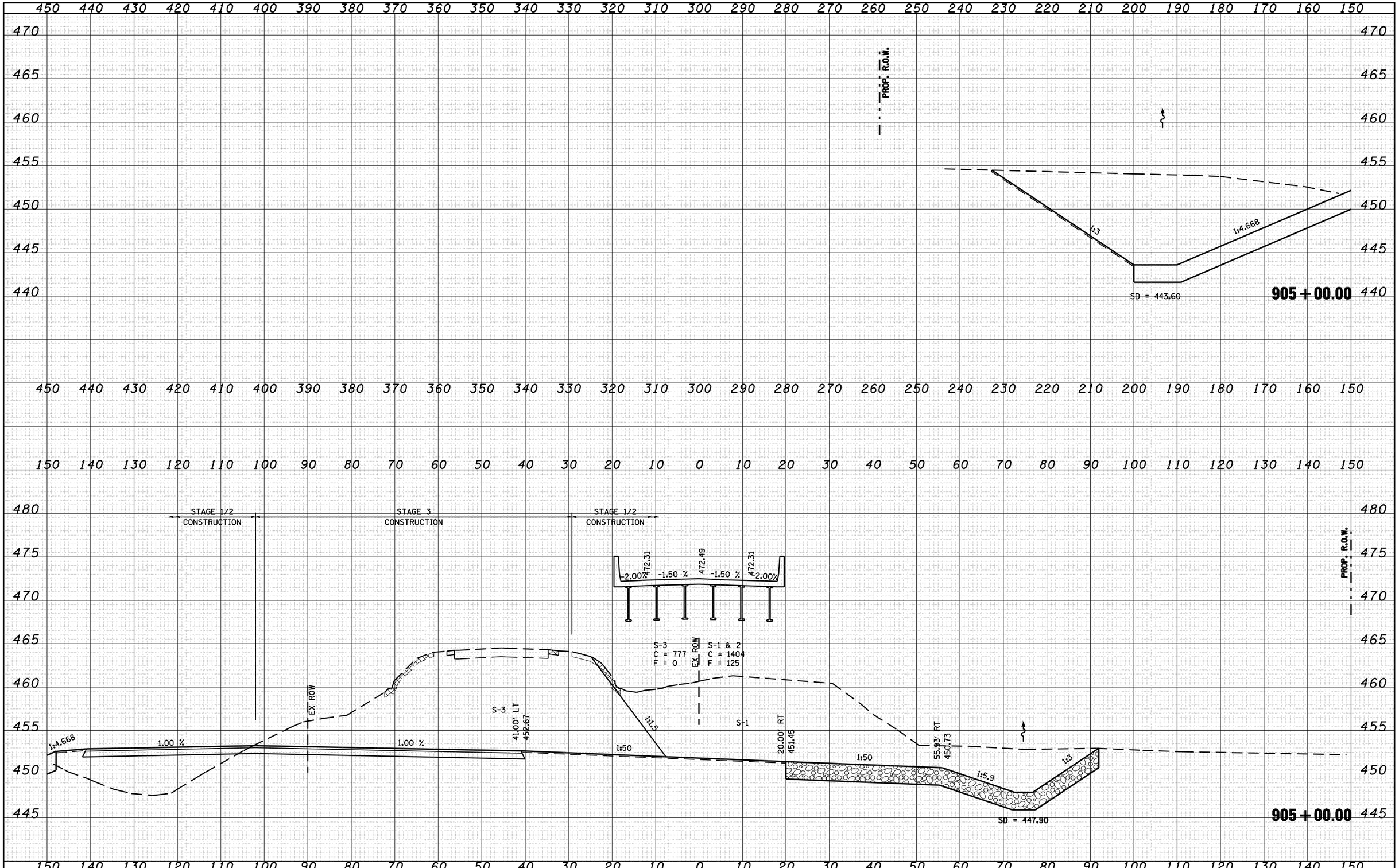
SCALE: | SHEET NO. OF SHEETS | STA. 904+50.00 TO STA. 904+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	289
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	NOTE BOOK	NO.

FINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
NOTE BOOK					
NO.					

BY	DATE



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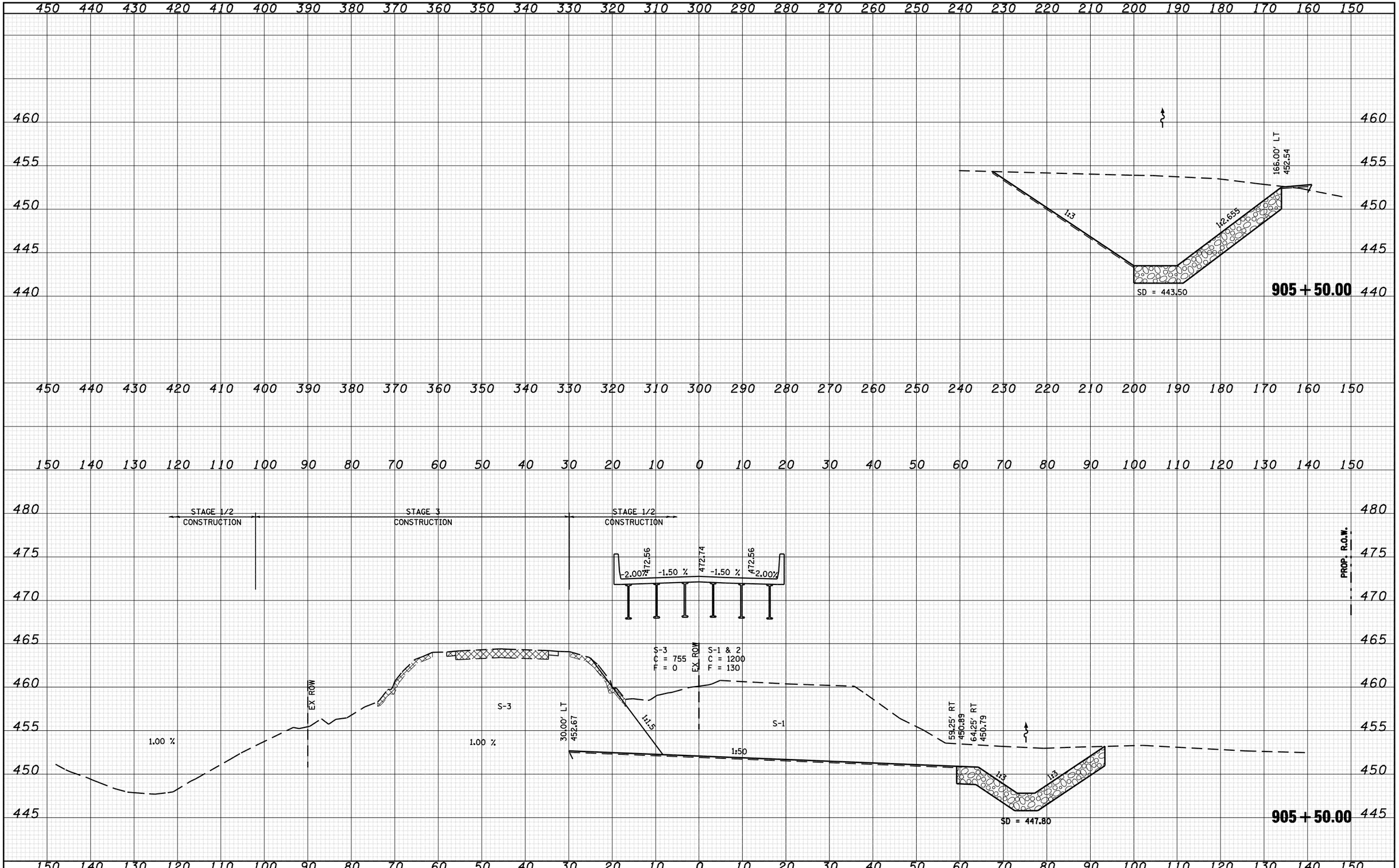
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 905+00.00 TO STA. 905+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	290
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				



ORIGINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

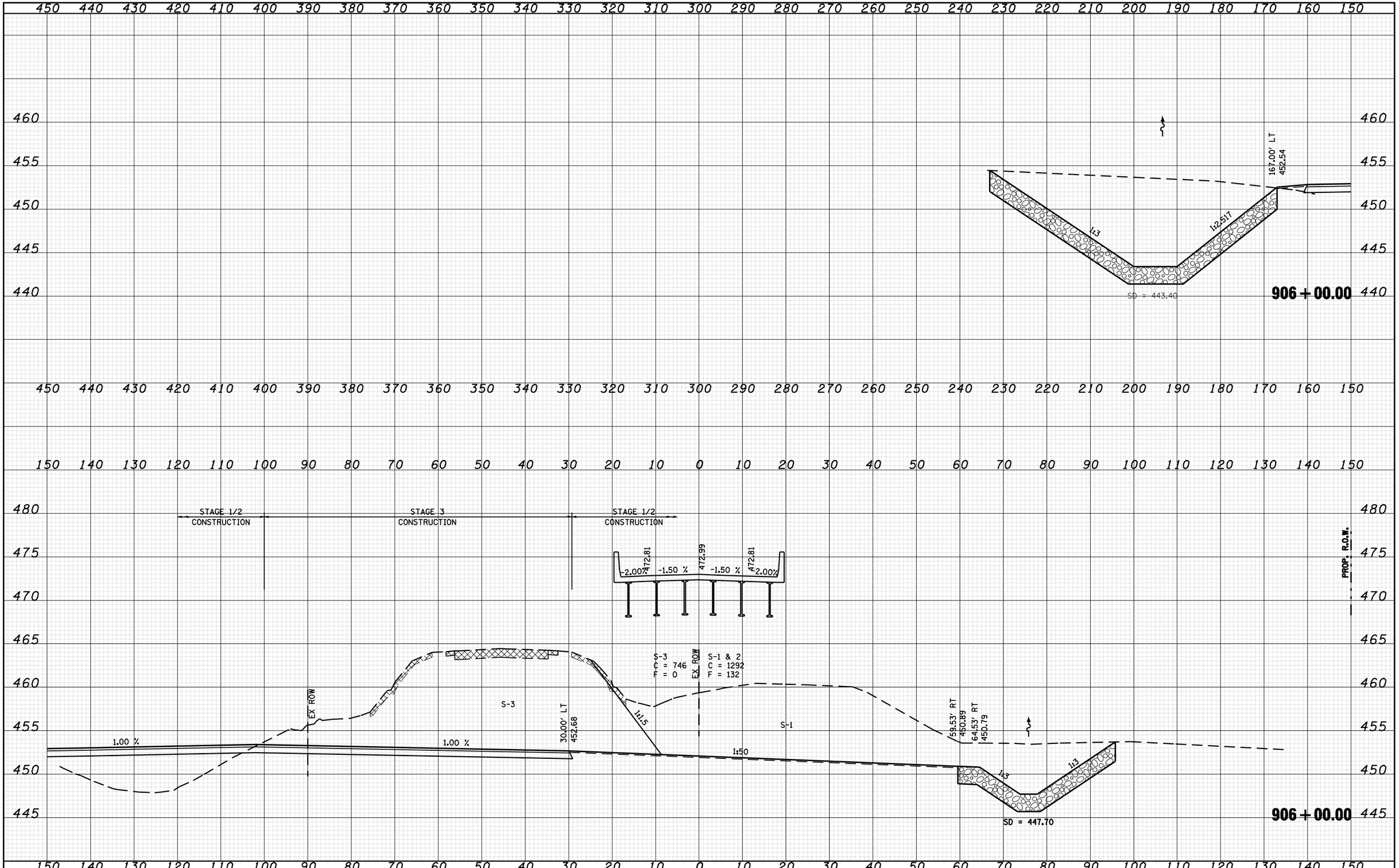
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 905+50.00 TO STA. 905+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	291
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
ORIGINAL SURVEY	NOTE BOOK	NO.

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		



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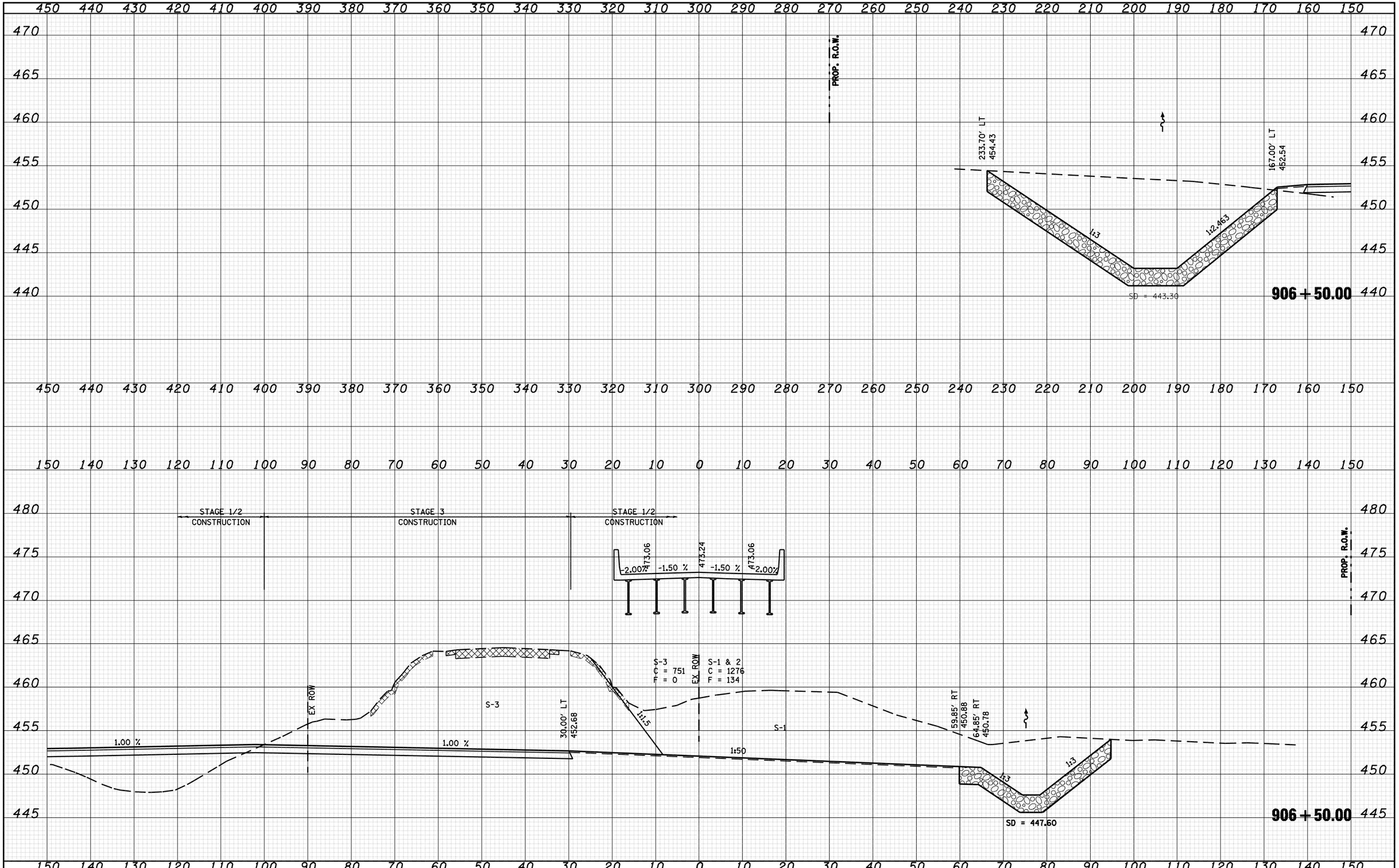
	PLOT DATE = Mar-31-2009 08:10:03AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 906+00.00 TO STA. 906+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	292
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

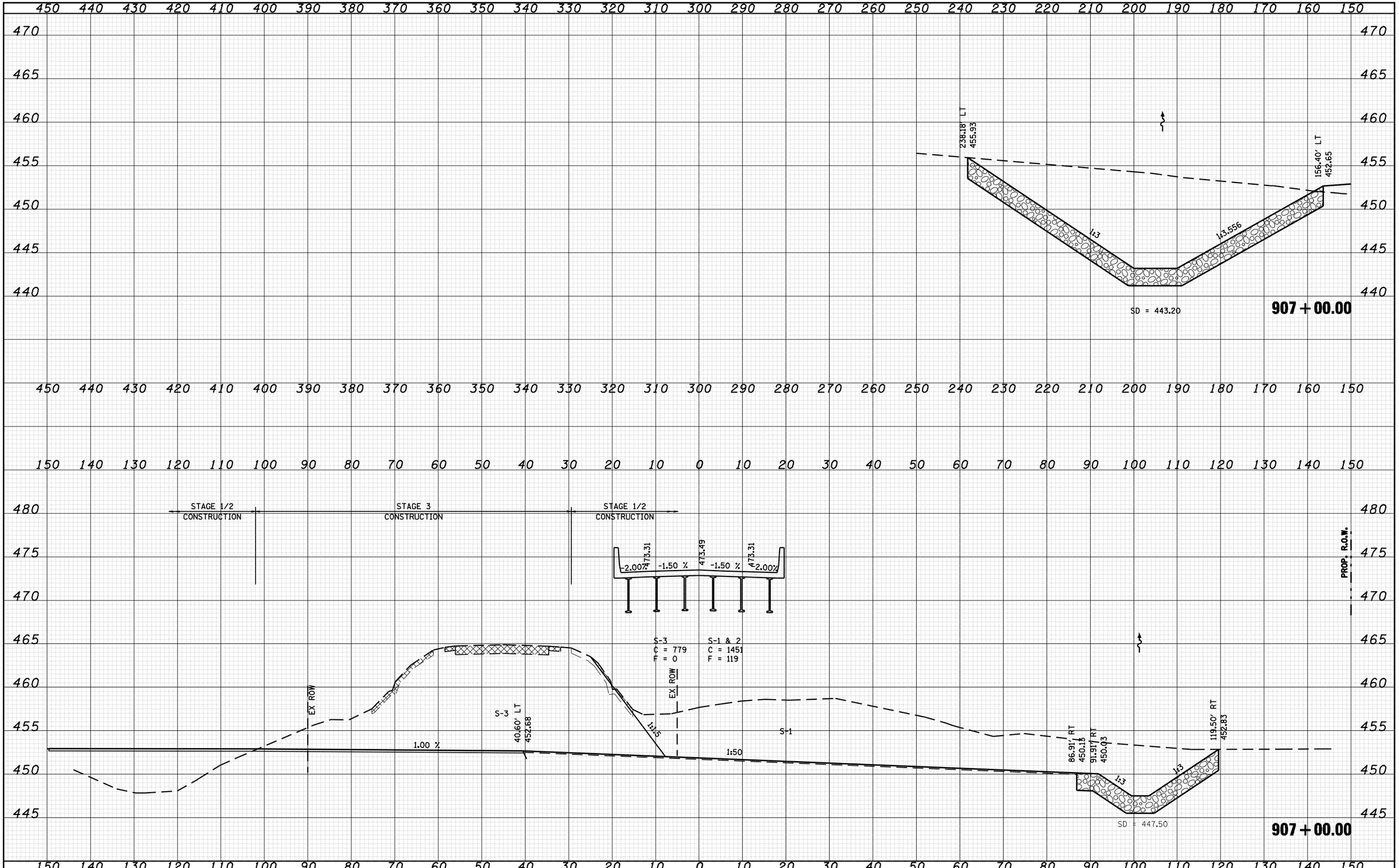
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 906+50.00 TO STA. 906+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	293
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
NO.	AREAS CHECKED

ORIGINAL SURVEY	BY
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
NO.	AREAS CHECKED



FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
NO.	AREAS CHECKED	

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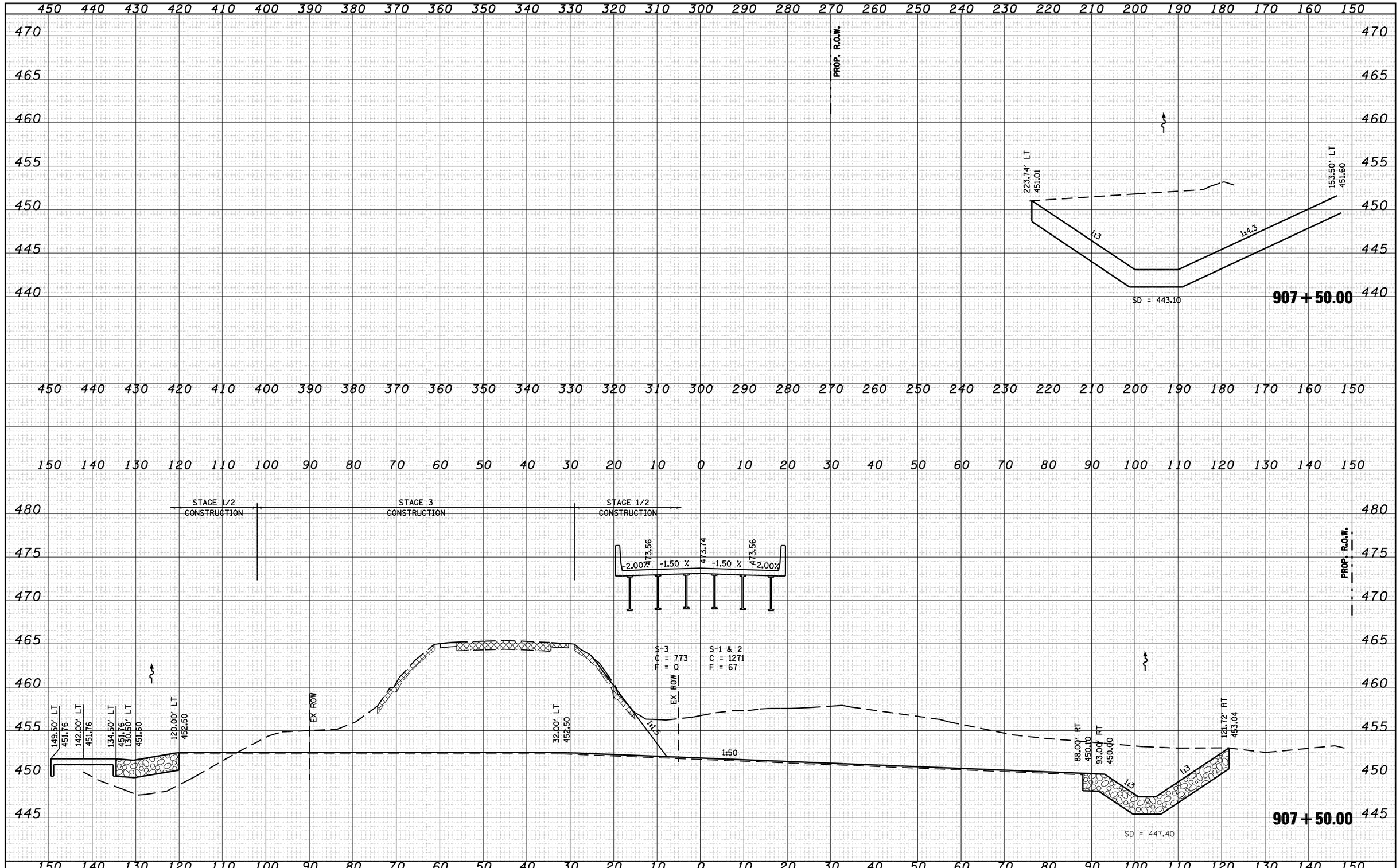
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 907+00.00 TO STA. 907+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	294
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOT DATE = Mar-31-2009 08:10:09AM	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

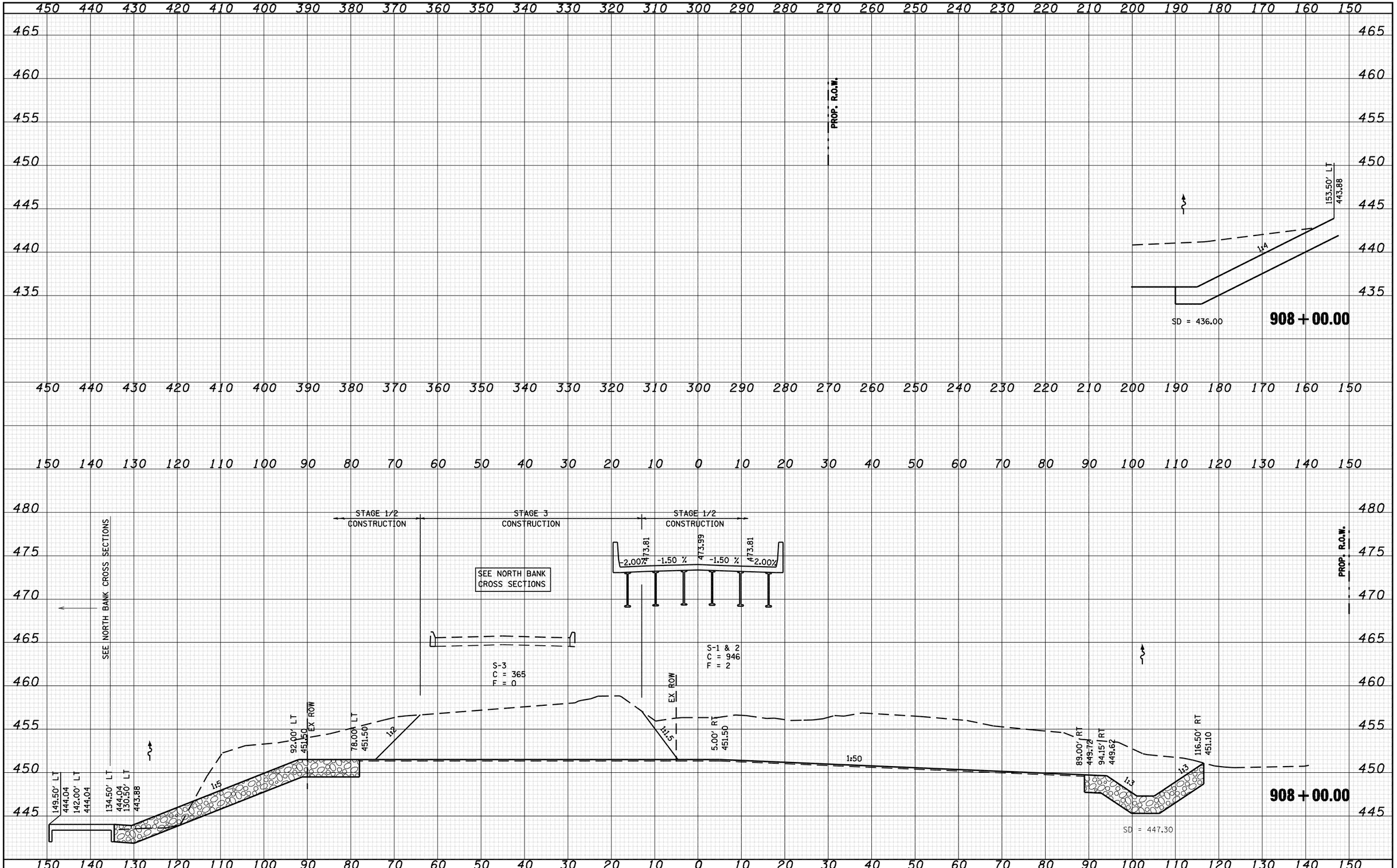
IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 907+50.00 TO STA. 907+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	295
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ORIGINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				

FINAL SURVEY	NOTE BOOK	NO.	BY	DATE
SURVEYED				
PLOTTED				
TEMPLATE				
AREAS				
AREAS CHECKED				



FILE NAME =	USER NAME = laughlinrl	DESIGNED -	REVISED -
c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001altltmj-sheetsB.dgn		DRAWN -	REVISED -
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	PLOT DATE = Mar-31-2009 08:10:11AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

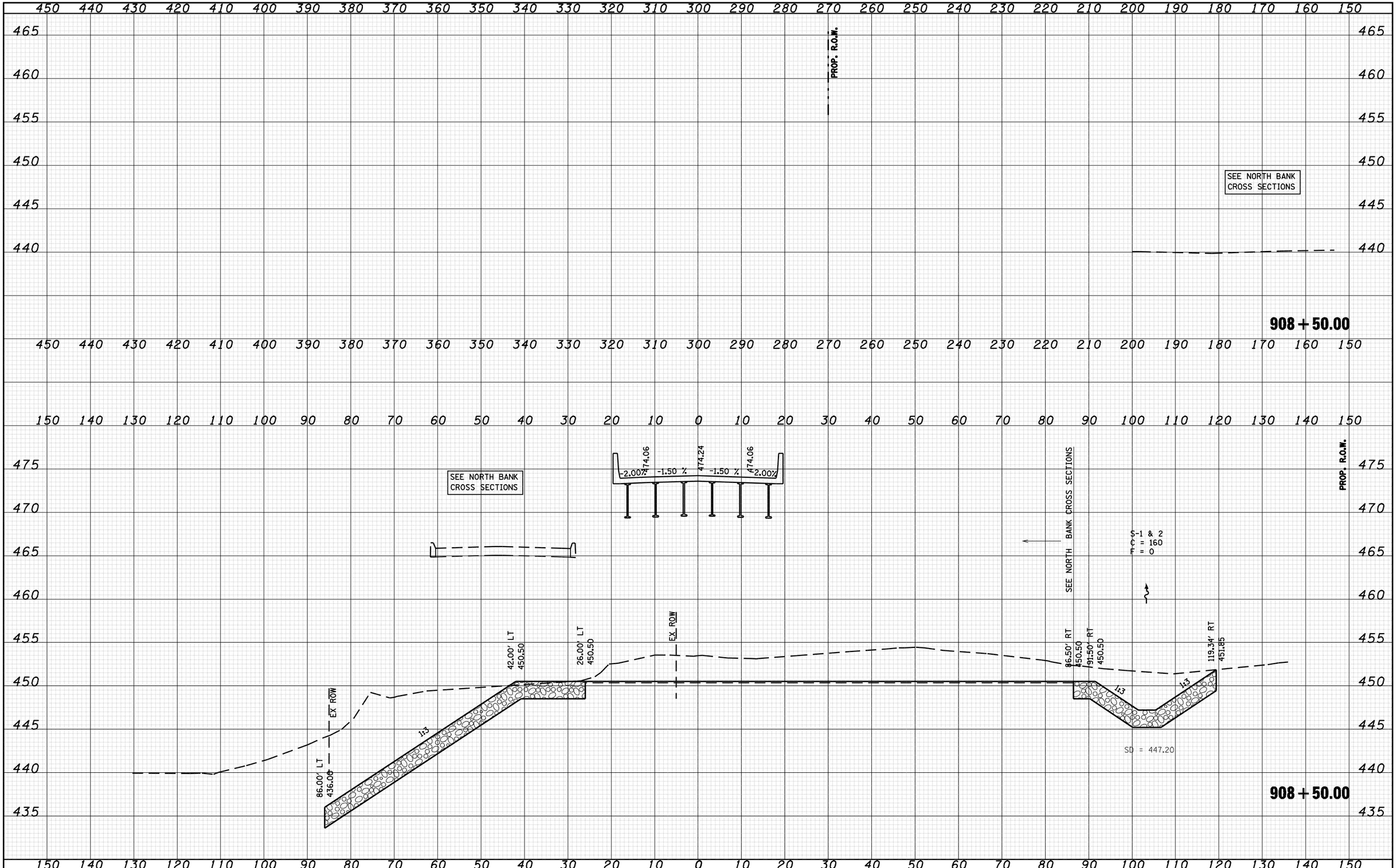
SCALE: | SHEET NO. OF SHEETS | STA. 908+00.00 TO STA. 908+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	296
		CONTRACT NO. 72A76		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FINAL SURVEY: NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY: NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE



FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001altltmj-sheetsB.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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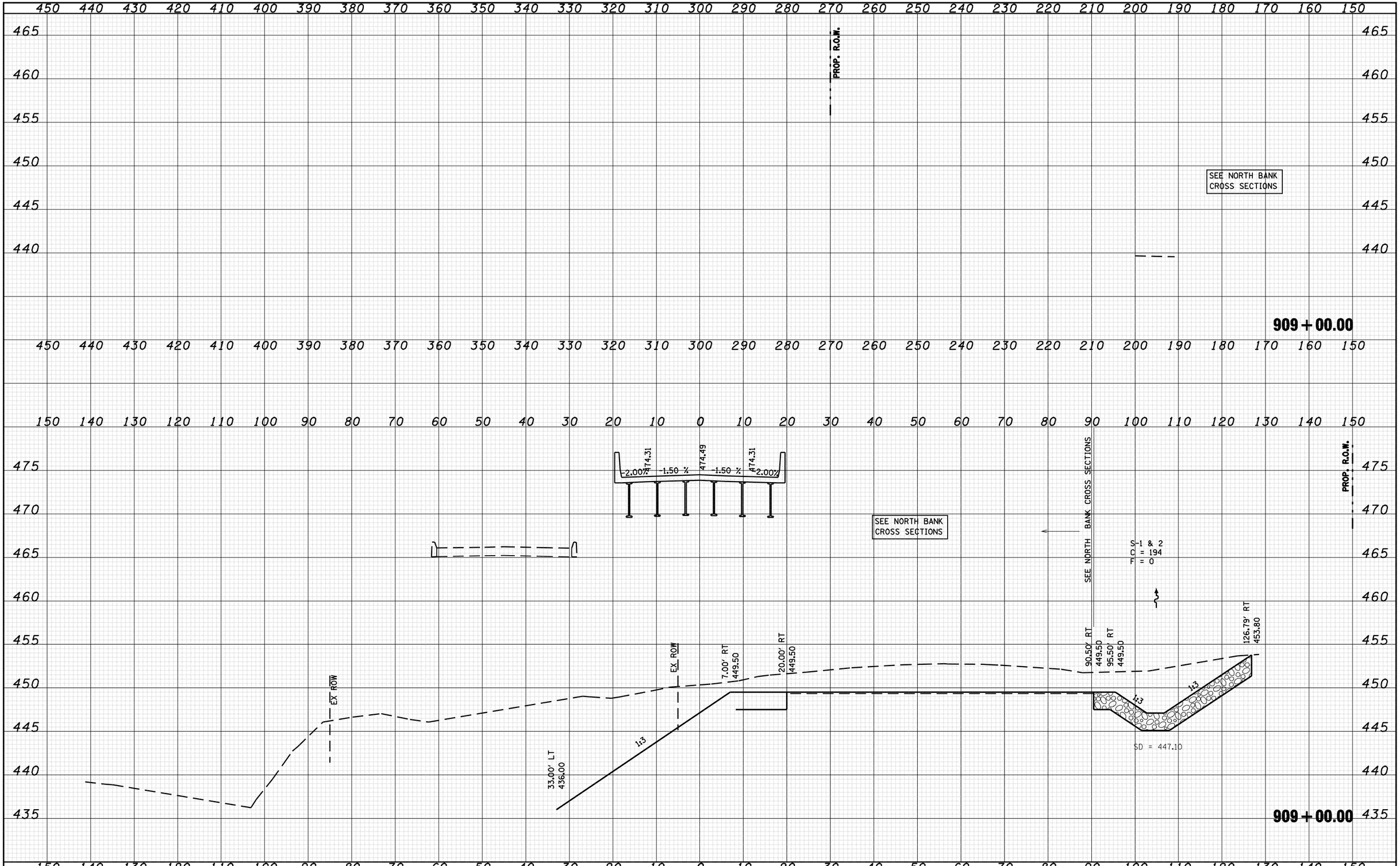
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 908+50.00 TO STA. 908+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	297
		CONTRACT NO. 72A76		

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT



FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001altltmj-sheetsB.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
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	PLOT DATE = Mar-31-2009 08:10:16AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 909+00.00 TO STA. 909+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	298

CONTRACT NO. 72A76

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

PROP. R.O.W.

909 + 50.00

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

474.56 | -2.00% | -1.50 % | 474.74 | -1.50 % | 474.56 | 2.00%

SEE NORTH BANK CROSS SECTIONS

SEE NORTH BANK CROSS SECTIONS

S-1 & 2
C = 0
F = 0

129.43' RT
454.81

53.00' RT
448.50

65.00' RT
448.50

102.00' RT
447.00

106.00' RT
447.00

1:3

1:24.667

SD = 447.00

1:3.12

14.00' RT
436.00

EX ROW

EX ROW

SEE NORTH BANK CROSS SECTIONS

909 + 50.00

FILE NAME =	USER NAME = laughlinrl	DESIGNED -	REVISED -
c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 909+50.00 | TO STA. 909+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	299
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		DATE
TEMPLATE		
AREAS		
AREAS CHECKED		

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450

460
455

155.00' RT
456.78

460
455

910 + 00.00

150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 380 390 400 410 420 430 440 450

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

475
470
465
460
455
450
445
440
435

474.81
-2.00%
-1.50 %
474.99
-1.50 %
474.81
2.00%

SEE NORTH BANK CROSS SECTIONS

SEE NORTH BANK CROSS SECTIONS

S-1 & 2
C = 628
F = 0

132.56' RT
456.78

1:2

72.00' RT
439.00

97.00' RT
439.00

EX ROW

1:19.3

EX ROW

910 + 00.00

150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		BY
PLOTTED		DATE
TEMPLATE		
AREAS		
AREAS CHECKED		

FILE NAME = c:\pw_work\PWIDOT\LAUGHLINRL\d0134498\xsprp001.dgn	USER NAME = laughlinrl	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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	PLOT DATE = Mar-31-2009 08:10:20AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 78 OVER SANGAMON RIVER

SCALE: | SHEET NO. OF SHEETS | STA. 910+00.00 | TO STA. 910+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
614	144(B-1)	CASS, MASON	351	300
		CONTRACT NO. 72A76		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		