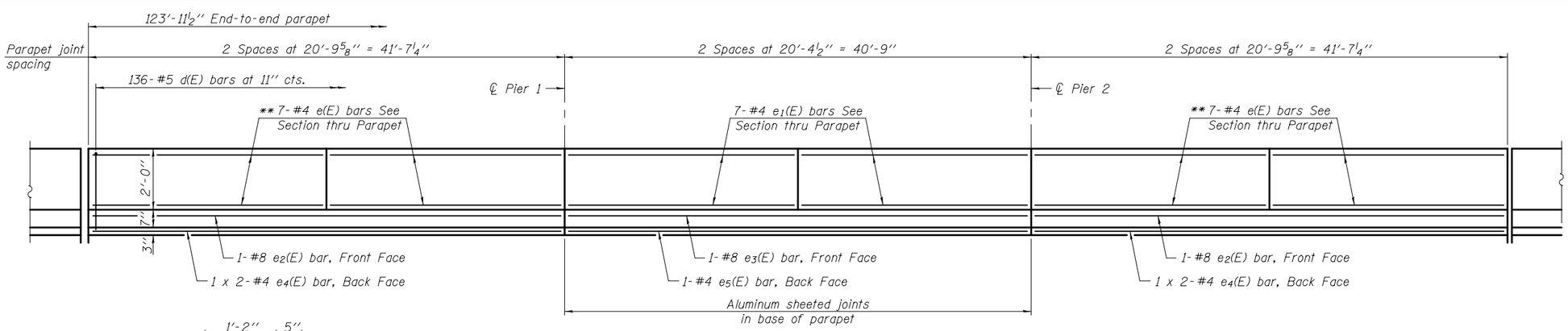
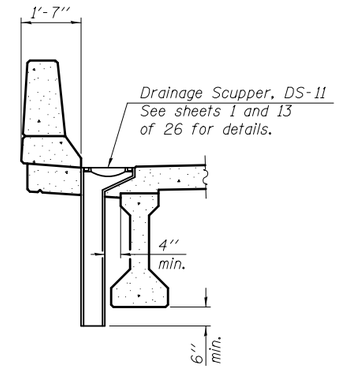


INSIDE ELEVATION OF PARAPET

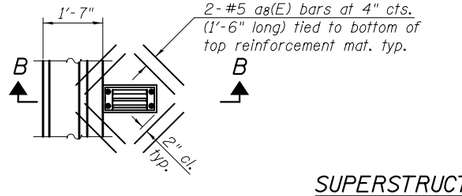
(North parapet shown, South parapet similar)



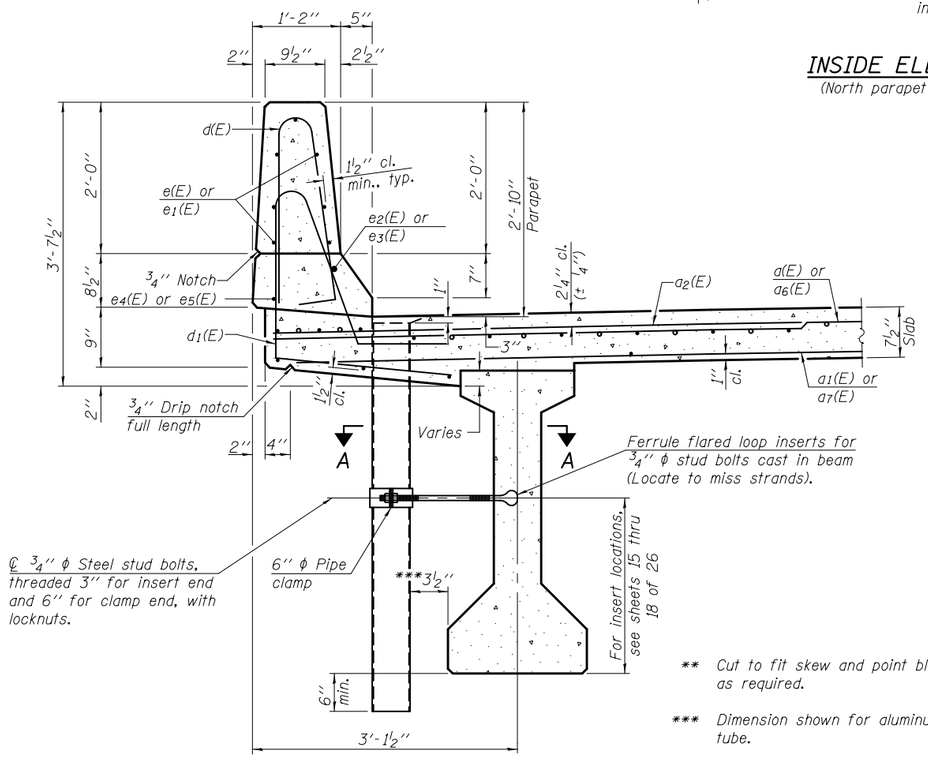
SECTION B-B

MINIMUM BAR LAP

#4 Bar = 2'-0"



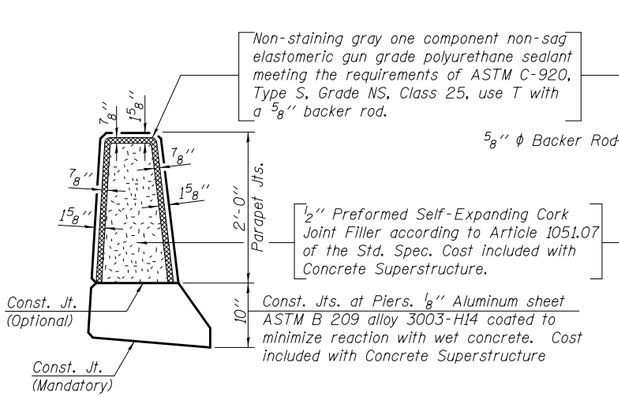
PLAN



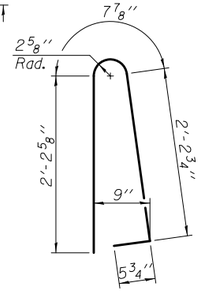
SECTION THRU PARAPET

** Cut to fit skew and point block as required.

*** Dimension shown for aluminum tube.



PARAPET JOINT DETAILS



BAR d(E)

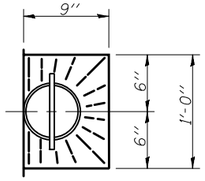
Notes:

Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

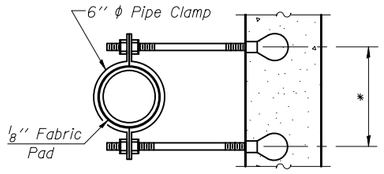
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete.

The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device and inserts included with Floor Drains.

Cut longitudinal reinforcement to clear drainage scuppers.

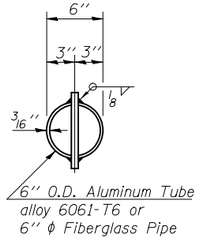


TOP PLAN



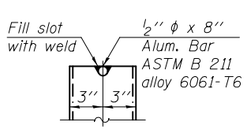
SECTION A-A

*Dimension as required by Pipe Clamp

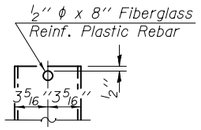


TOP PLAN

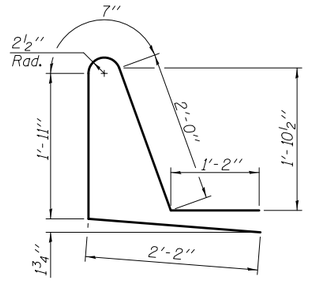
(Showing Aluminum Tube)



ALUMINUM TUBE



FIBERGLASS PIPE



BAR d1(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	161	#5	38'-7"	
a1(E)	116	#5	37'-4"	
a2(E)	232	#6	6'-6"	
a3(E)	30	#6	8'-2"	
a4(E)	4	#6	24'-3"	
a5(E)	16	#7	29'-4"	
a6(E)	66	#5	37'-0"	
a7(E)	47	#5	36'-5"	
a8(E)	16	#5	1'-6"	
b(E)	168	#5	32'-10"	
b1(E)	78	#6	16'-4"	
b2(E)	205	#5	26'-10"	
d(E)	272	#5	5'-7"	
d1(E)	272	#5	7'-10"	
e(E)	56	#4	20'-6"	
e1(E)	28	#4	20'-1"	
e2(E)	4	#8	41'-4"	
e3(E)	2	#8	40'-6"	
e4(E)	8	#4	21'-8"	
e5(E)	2	#4	40'-6"	
m(E)	40	#4	8'-4"	
m1(E)	20	#6	6'-11"	
m2(E)	12	#8	5'-6"	
s(E)	50	#4	11'-0"	
x(E)	60	#6	8'-1"	
x1(E)	70	#5	4'-1"	
Reinforcement Bars, Epoxy Coated			Lbs.	40,270
Concrete Superstructure			Cu. Yds.	191.0

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

DESIGNED -	MARK D. SHAFFER
CHECKED -	STEPHEN M. RYAN
DRAWN -	MICHAEL B. MOSSMAN
CHECKED -	F.T. / G.R.A.

EXAMINED — Wayne F. Shaffer, ACTING ENGINEER OF BRIDGE DESIGN

PASSED — A. Carl Preuss, ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 24, 2014

REVISED

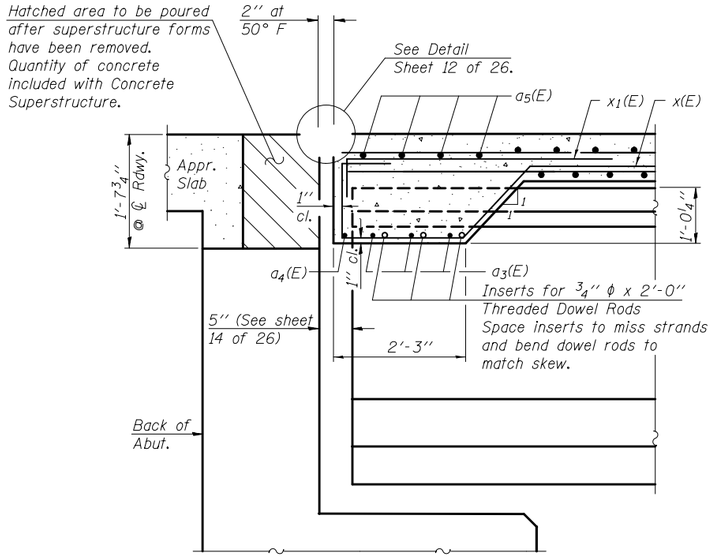
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

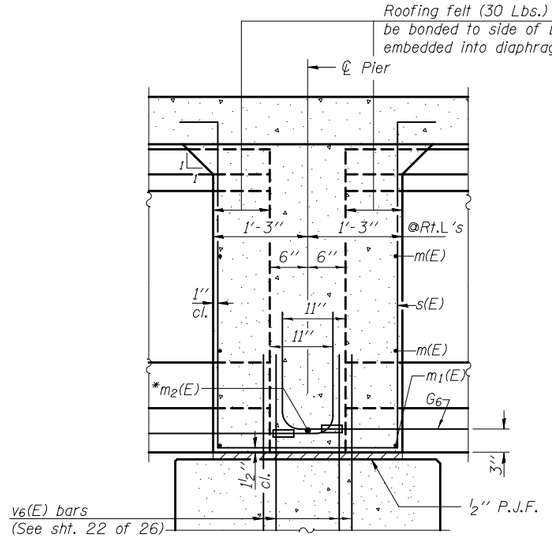
SUPERSTRUCTURE DETAILS
STRUCTURE NO. 100 – 0081

SHEET NO. 8 OF 26 SHEETS

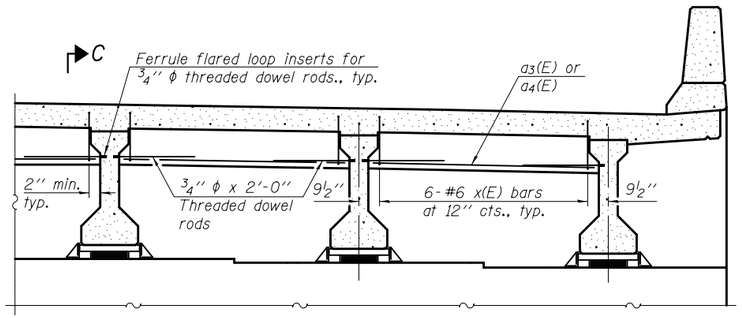
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	101
		CONTRACT NO. 78277		
		ILLINOIS FED. AID PROJECT		



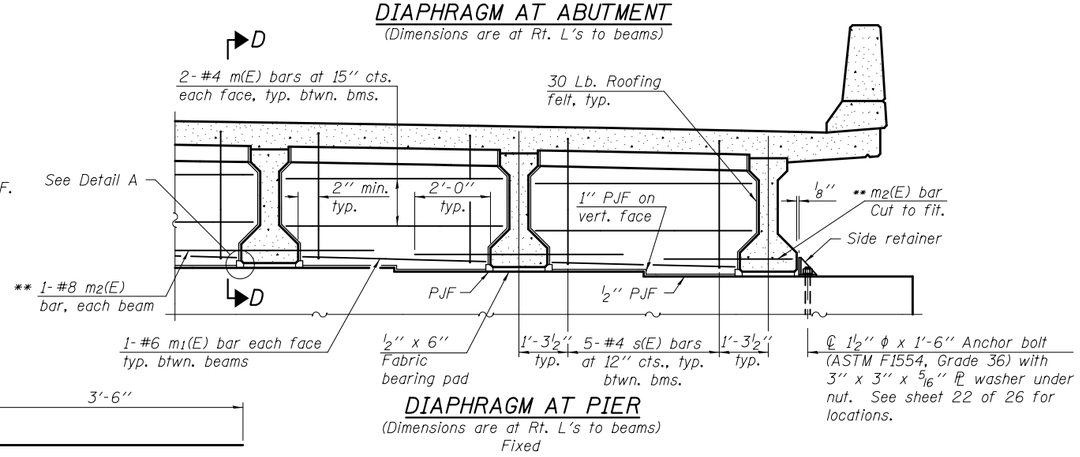
SECTION C-C
(at Rt. Ls)



SECTION D-D
(Fixed)



DIAPHRAGM AT ABUTMENT
(Dimensions are at Rt. L's to beams)



DIAPHRAGM AT PIER
(Dimensions are at Rt. L's to beams)
Fixed

* Tightly fasten the #8 bars together with No. 9 wire ties.

** See Detail B on sheet 14 of 26 for orientation of m_2(E) bar.

Notes:

Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 26.

Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 26.

The s(E) and x(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.

Horizontal dimensions for Sec. D-D are along ℄ of beam unless otherwise noted.

Cost of 30 Lb. roofing felt is included with Concrete Superstructure.

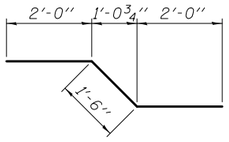
The side retainer shall be galvanized after shop fabrication according to AASHTO M 111. Cost of side retainers and anchor bolts shall be included with Concrete Structures.

Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.

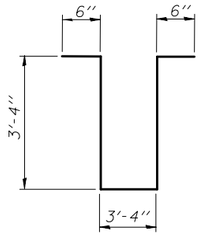
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be cast in place or installed in holes drilled after members are in place and prior to pouring the deck.

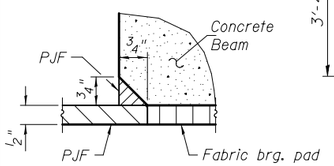
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.



BARS m_2(E)

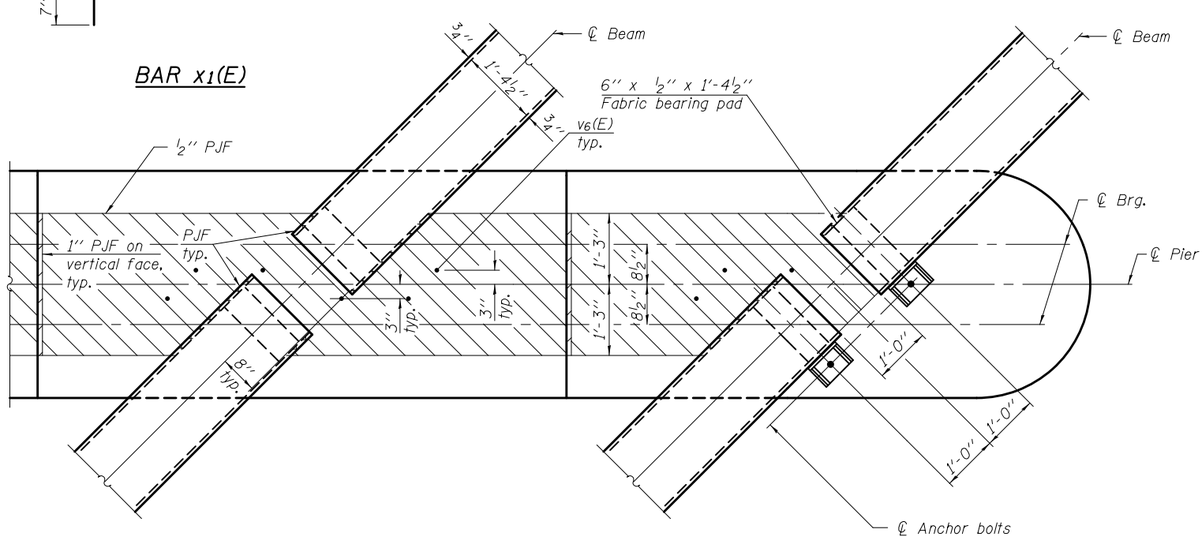


BARS s(E)

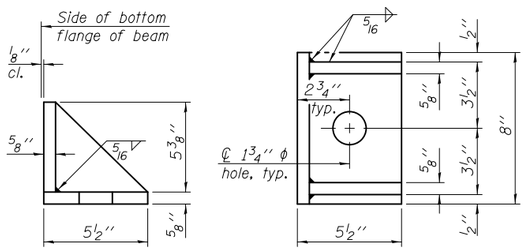


DETAIL 'A'

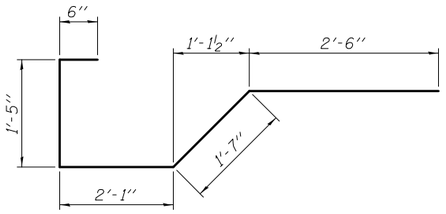
BAR x$_1$(E)



PLAN AT PIER
(Showing fabric bearing pads and PJF details)



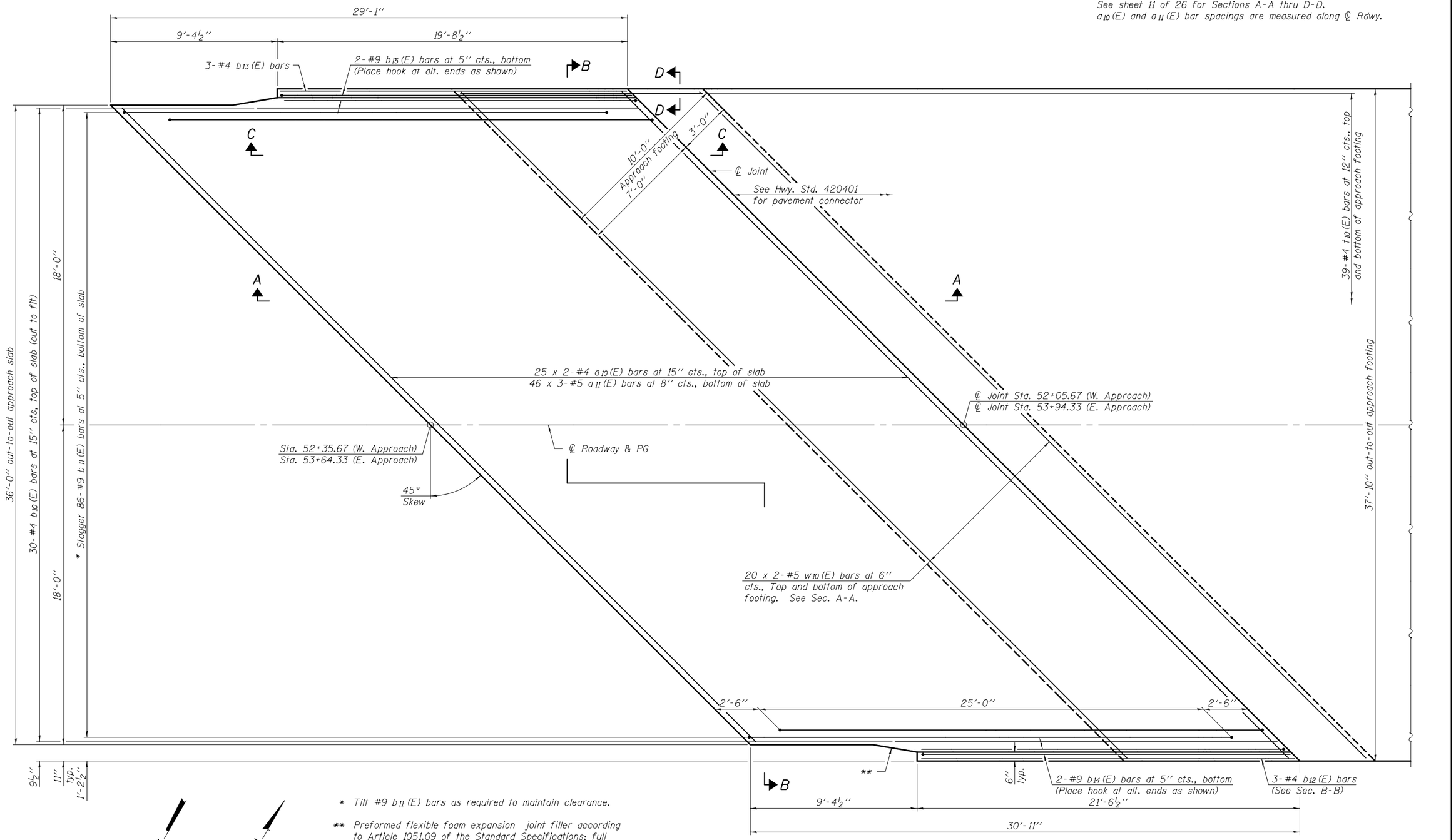
SIDE RETAINER
(2 required each side of pier).
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



BAR x(E)

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DIAPHRAGM DETAILS STRUCTURE NO. 100 – 0081**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN					9588	39B-2	WILLIAMSON	224	102
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED						CONTRACT NO. 78277	
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 9 OF 26 SHEETS			ILLINOIS	FED. AID PROJECT	

Notes:
See sheet 11 of 26 for Sections A-A thru D-D.
a_{10}(E) and a_{11}(E) bar spacings are measured along ℄ Rdwy.



* Tilt #9 b_{11}(E) bars as required to maintain clearance.

** Preformed flexible foam expansion joint filler according to Article 1051.09 of the Standard Specifications; full depth of slab, full length of parapet. Cost included with Concrete Superstructure. Typical each parapet.

(W. appr. slab) (E. appr. slab)

PLAN

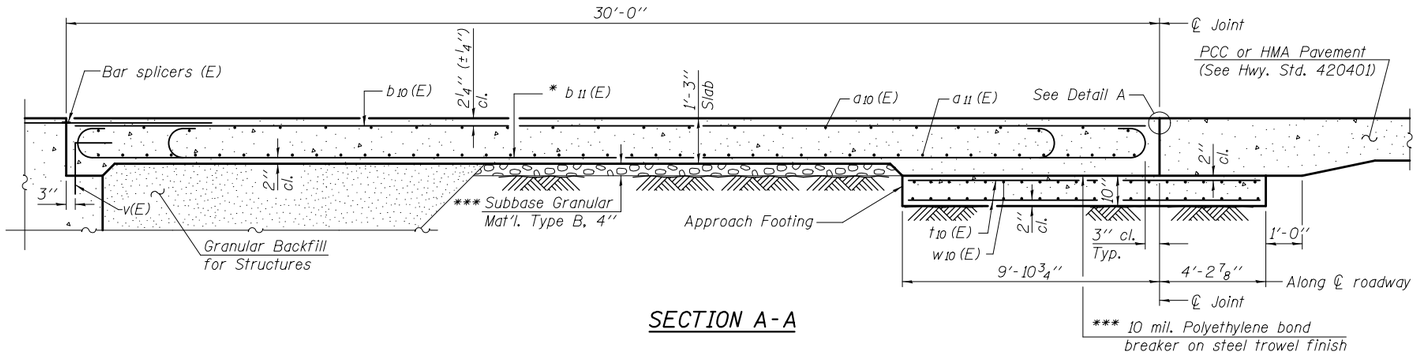
(East approach shown. West approach similar by rotation).

MINIMUM BAR LAP

#4 bar = 2'-1"
#5 bar = 2'-7"

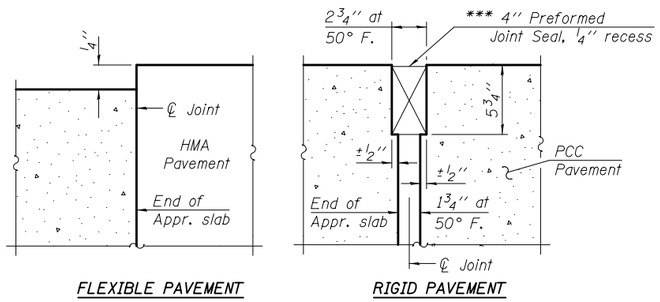
(Sheet 1 of 2)

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 100 – 0081	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN					9588	39B-2	WILLIAMSON	224	103
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED						CONTRACT NO. 78277	
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 10 OF 26 SHEETS			ILLINOIS FED. AID PROJECT		



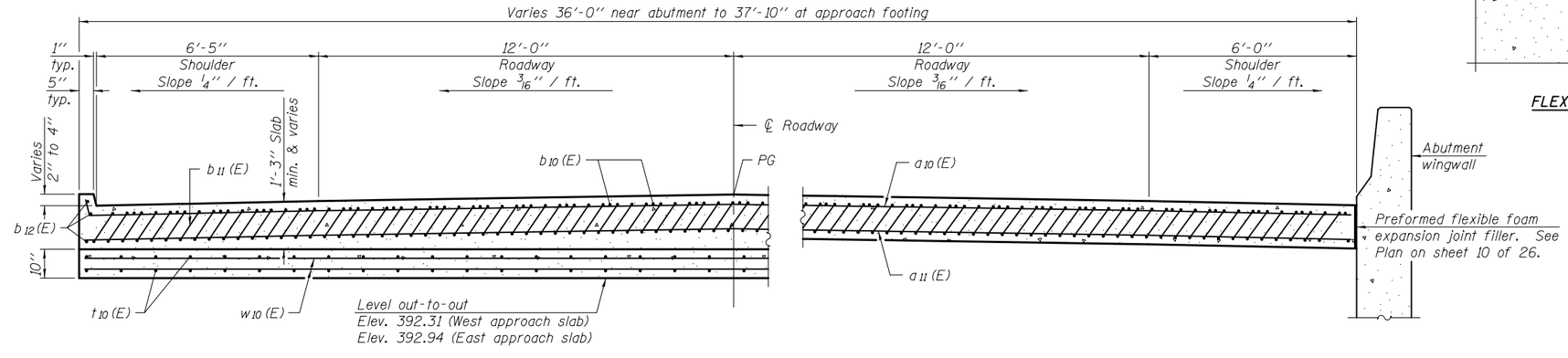
SECTION A-A

Notes:
- Approach slab concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v(E) bar details, see sheet 20 of 26.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- For bar splicer details, see sheet 25 of 26.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill and drainage treatment details, see sheet 2 of 26.

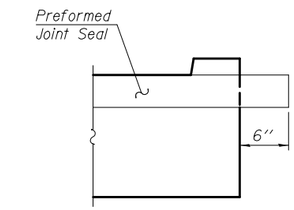


FLEXIBLE PAVEMENT — RIGID PAVEMENT

DETAIL A

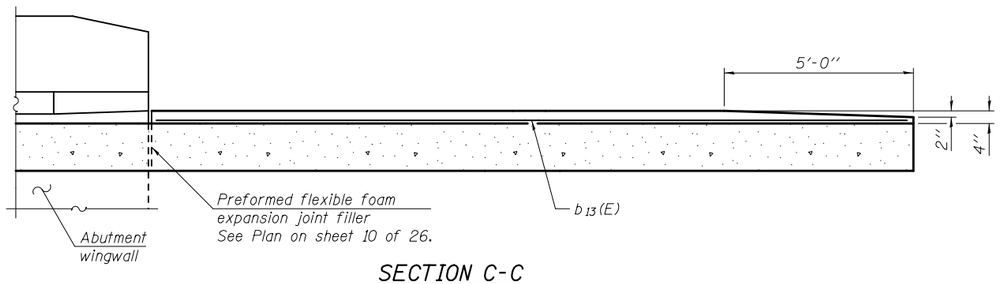


AT APPROACH FOOTING — NEAR ABUTMENT

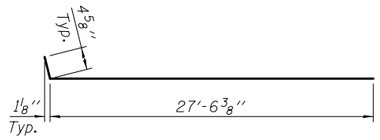


PREFORMED JOINT SEAL — VIEW D-D

SECTION B-B
(See Plan for dimensions not shown)



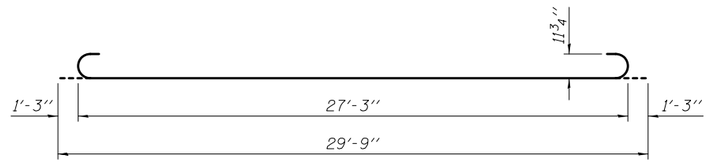
SECTION C-C



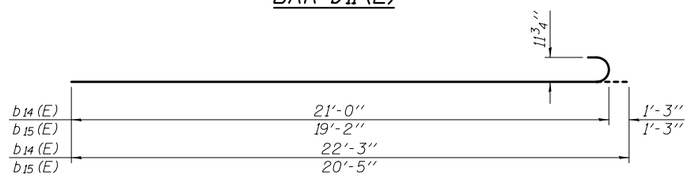
BAR a 10 (E)

* Tilt #9 b 11 (E) bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.



BAR b 11 (E)



BARS b 14 (E) & b 15 (E)

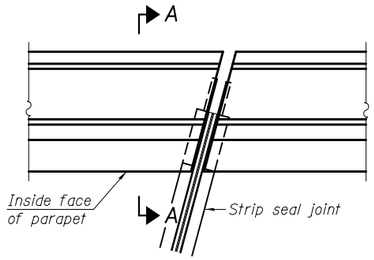
TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a 10 (E)	100	#4	27'-11"	
a 11 (E)	276	#5	19'-5"	
b 10 (E)	60	#4	29'-8"	
b 11 (E)	172	#9	29'-9"	
b 12 (E)	6	#4	21'-3"	
b 13 (E)	6	#4	19'-5"	
b 14 (E)	4	#9	22'-3"	
b 15 (E)	4	#9	20'-5"	
t 10 (E)	156	#4	13'-9"	
w 10 (E)	160	#5	27'-10"	
Concrete Superstructure			Cu. Yd.	113.7
Concrete Structures			Cu. Yd.	33.0
Reinforcement Bars, Epoxy Coated			Pound	32,860

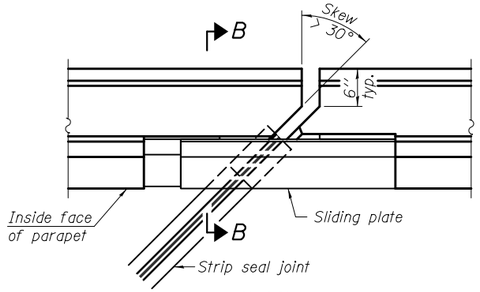
(Sheet 2 of 2)

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - STEPHEN M. RYAN	PASSED	REVISED	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 100 – 0081
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGE DESIGN	REVISED	SHEET NO. 11 OF 26 SHEETS
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGES AND STRUCTURES		

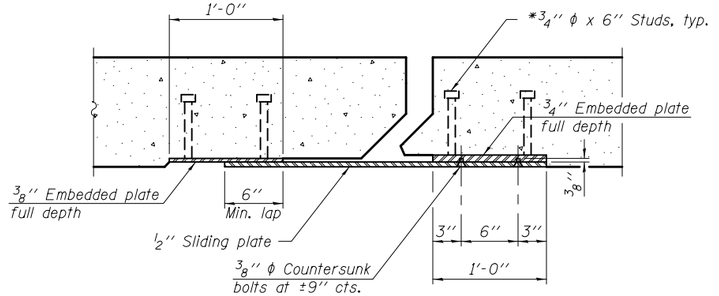
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	104
		CONTRACT NO. 78277		
		ILLINOIS FED. AID PROJECT		



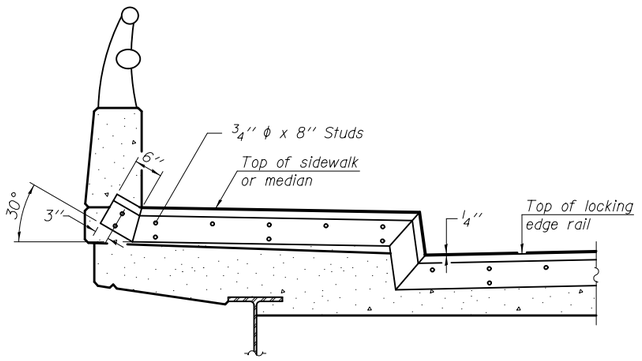
PLAN
(For skews ≤ 30°)



PLAN
(For skews > 30°)
Showing point block

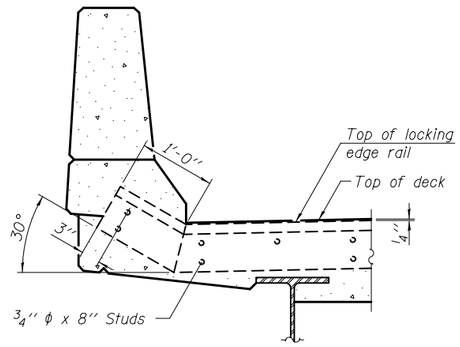


SECTION C-C

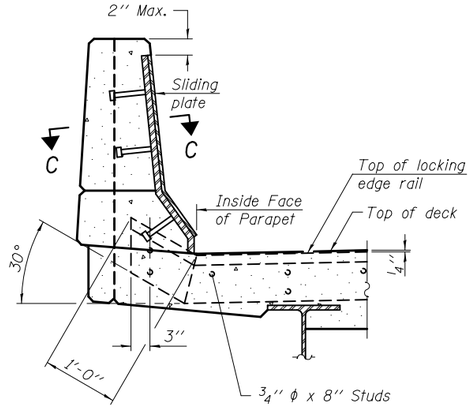


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

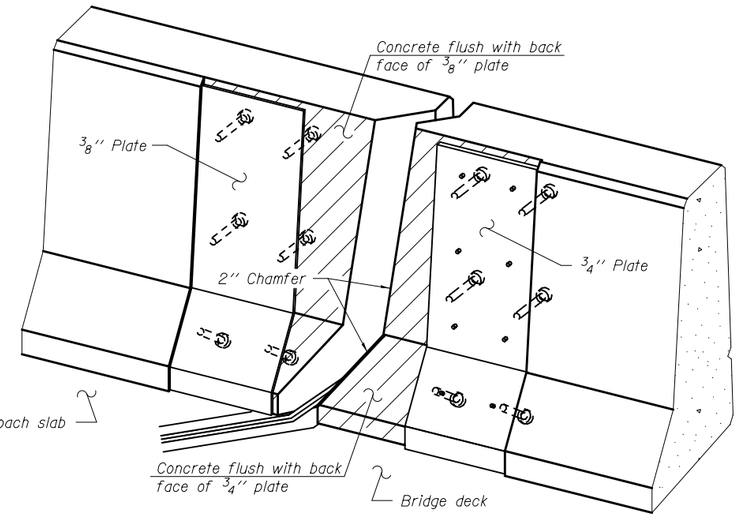
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

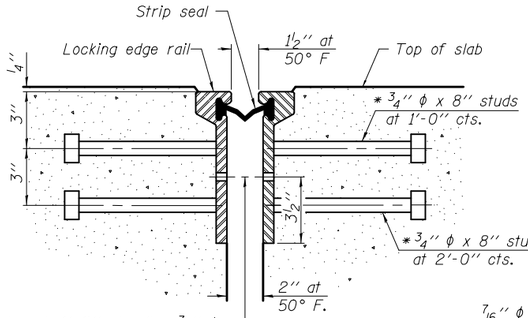
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

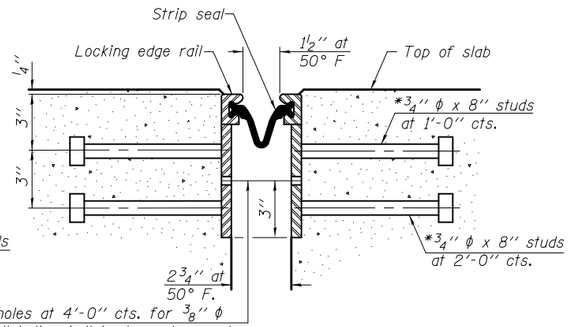
Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

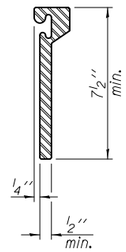
SECTION THRU ROLLED RAIL JOINT



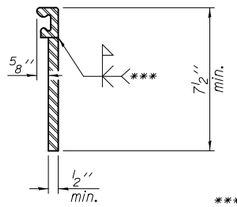
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

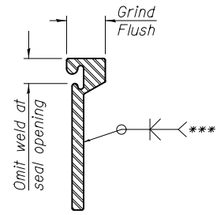
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

BILL OF MATERIAL

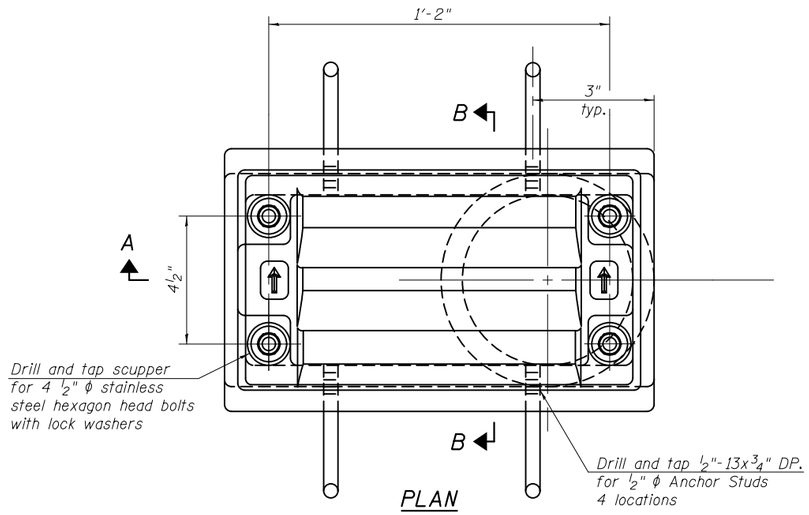
Item	Unit	Total
Preformed Joint Strip Seal	Foot	106

EJ-SSJ 1-27-12

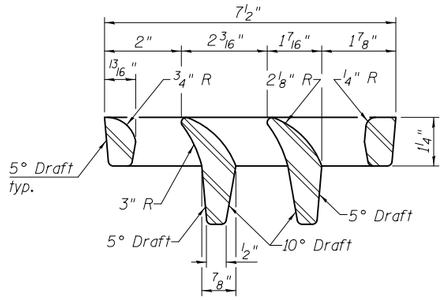
DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - STEPHEN M. RYAN			
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED	
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN / ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 100 – 0081
SHEET NO. 12 OF 26 SHEETS

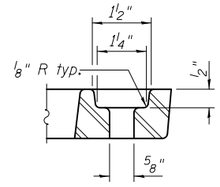
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	105
		CONTRACT NO. 78277		
	ILLINOIS FED. AID PROJECT			



PLAN



VANE GRATE DETAIL



BOLT HOLE DETAIL

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

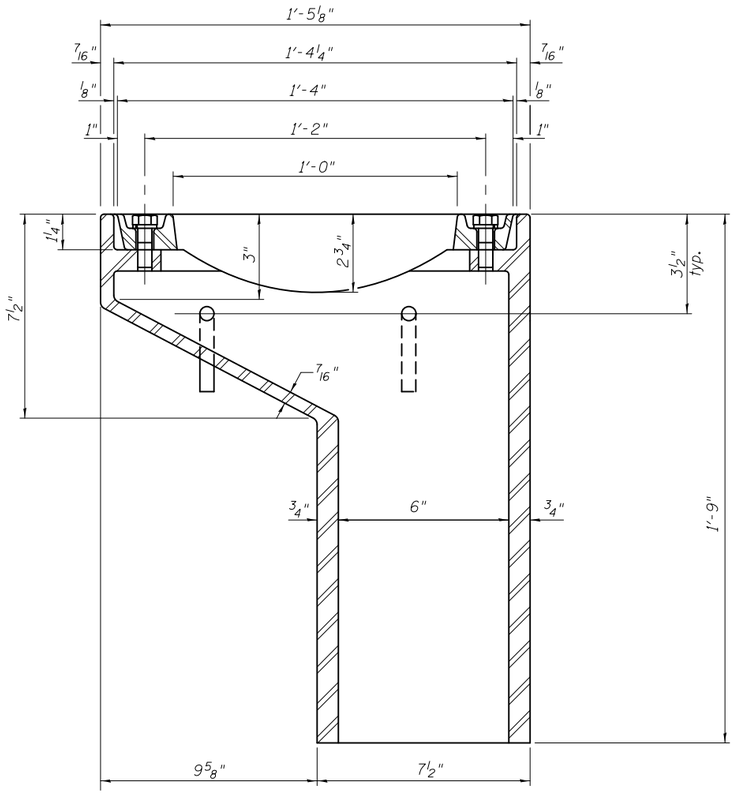
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

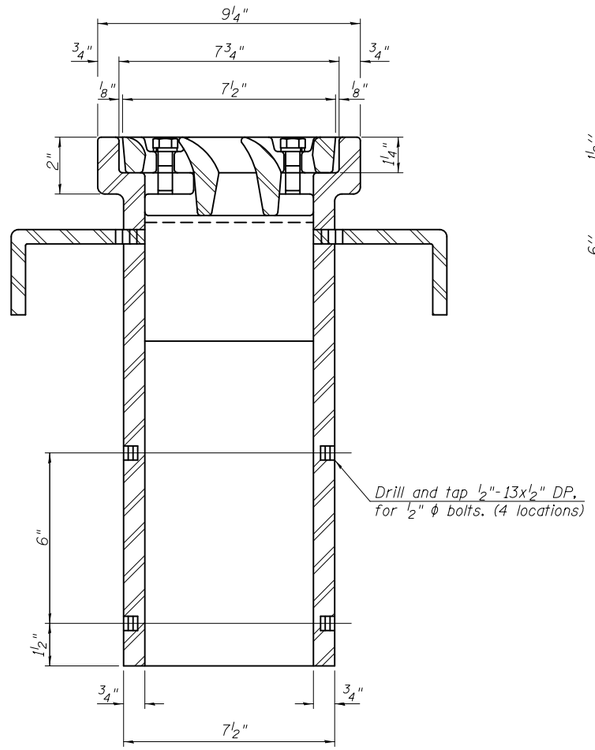
Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.

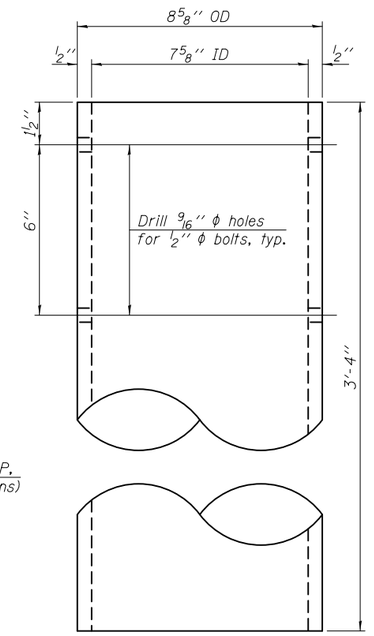


SECTION A-A

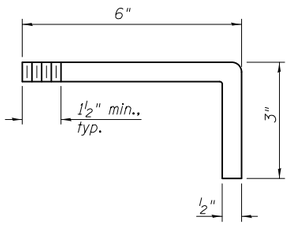
See sheet 8 of 26 for scupper location relative to parapet.



SECTION B-B



DOWNSPOUT



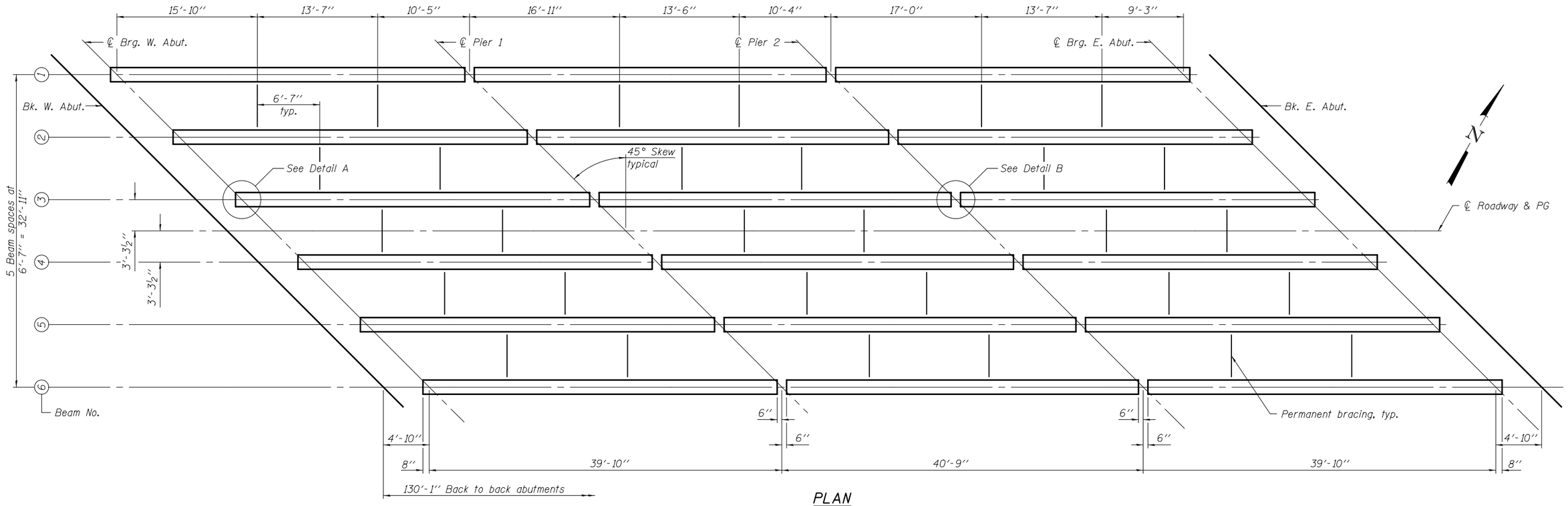
ANCHOR STUD DETAIL

BILL OF MATERIAL

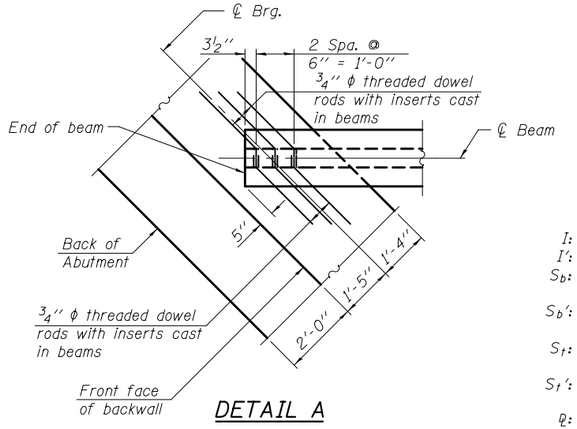
ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	2

DS-11 7-1-10

DESIGNED - MARK D. SHAFFER	EXAMINED		DATE - JANUARY 24, 2014	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**DRAINAGE SCUPPER, DS-11 STRUCTURE NO. 100 – 0081**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN						9588	39B-2	WILLIAMSON	224	106
DRAWN - MICHAEL B. MOSSMAN	PASSED	ACTING ENGINEER OF BRIDGE DESIGN	REVISED		SHEET NO. 13 OF 26 SHEETS			CONTRACT NO. 78277		
CHECKED - F.T. / G.R.A.		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED					ILLINOIS FED. AID PROJECT		



PLAN



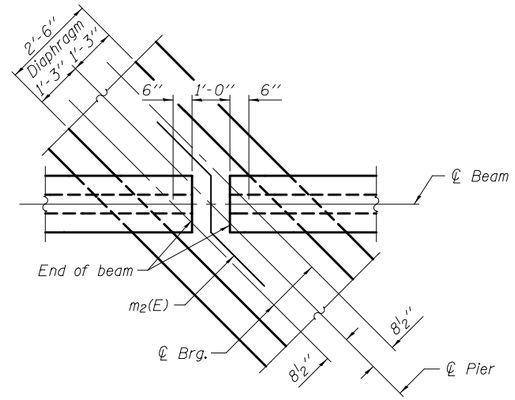
DETAIL A

INTERIOR BEAM MOMENT TABLE				
		0.4 Sp. 1 0.6 Sp. 3	Pier 1 or 2	0.5 Sp. #2
I	(in^4)	48647.6	-	48647.6
I'	(in^4)	171144	-	171144
S_b	(in^3)	3165.1	-	3165.1
S_b'	(in^3)	5863	-	5863
S_t	(in^3)	2358.1	-	2358.1
S_t'	(in^3)	25131	-	25131
$D\ell$	(k/')	1.022	-	1.022
$M\ell$	('k)	203	-	212
$s\ell$	(k/')	0.492	0.492	0.492
$Ms\ell$	('k)	62	80	22
M_L	('k)	218	158	180
M_I	('k)	65	47	54

I: Non-composite moment of inertia of beam section ($in.^4$).
I': Composite moment of inertia of beam section ($in.^4$).
S_b: Non-composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_b': Composite section modulus for the bottom fiber of the prestressed beam ($in.^3$).
S_t: Non-composite section modulus for the top fiber of the prestressed beam ($in.^3$).
S_t': Composite section modulus for the top fiber of the prestressed beam ($in.^3$).
$D\ell$: Un-factored non-composite dead load (kips/ft.).
$M\ell$: Un-factored moment due to non-composite dead load conservatively taken at 0.5 of the span (kip-ft.).
$s\ell$: Un-factored long-term composite (superimposed) dead load (kips/ft.).
$M_s\ell$: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
M_L: Un-factored live load moment on the composite section (kip-ft.).
M_I: Un-factored moment due to impact on the composite section (kip-ft.).

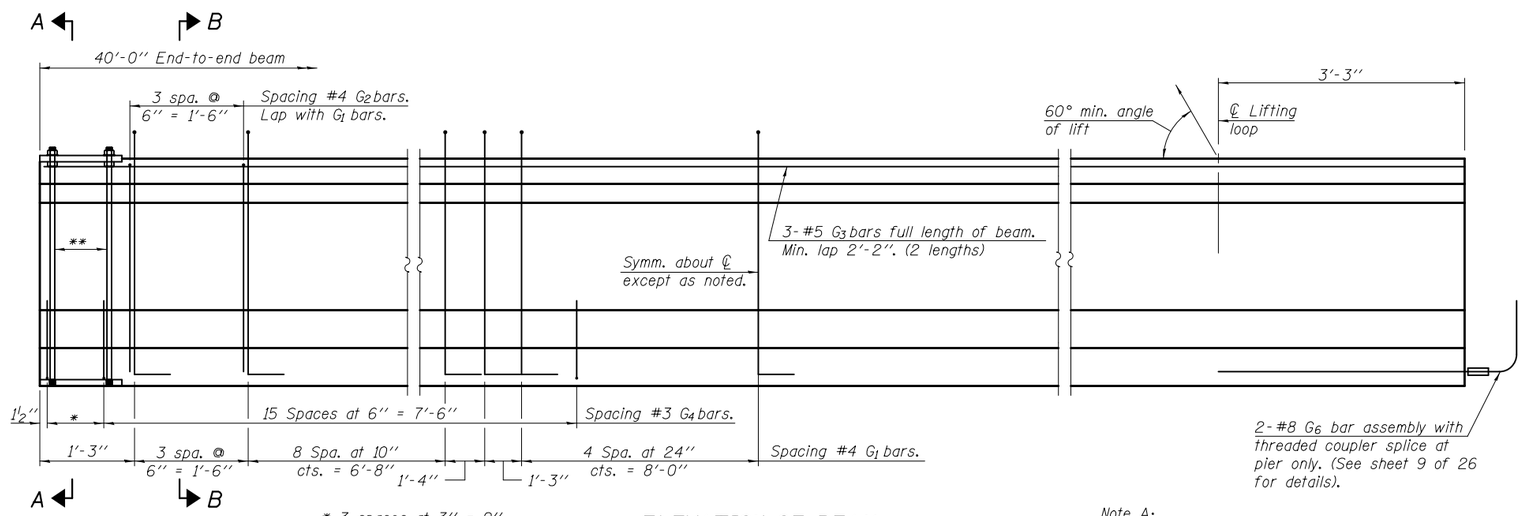
INTERIOR BEAM REACTION TABLE				
		Abut.	Pier 1 Span 1 Pier 2 Span 3	Pier 1 Span 2 Pier 2 Span 2
	$R\ell$ (k)	20.4	20.4	20.8
*	$Rs\ell$ (k)	7.8	10.9	10.9
*	R_L (k)	32.2	20.6	20.6
*	Imp. (k)	9.7	6.2	6.2
	R (Total) (k)	70.1	58.1	58.5

* At continuous piers, reactions from composite loads are assumed to be equally distributed to each bearing line.



DETAIL B

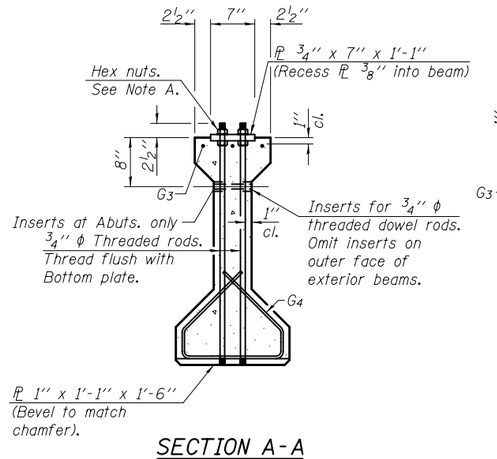
DESIGNED - MARK D. SHAFFER	EXAMINED	Joyce F. Schaffer ACTING ENGINEER OF BRIDGE DESIGN C. Carl Preuss ACTING ENGINEER OF BRIDGES AND STRUCTURES	DATE - JANUARY 24, 2014	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**FRAMING PLAN** **STRUCTURE NO. 100 – 0081**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN			REVISED			9588	39B-2	WILLIAMSON	224	107
DRAWN - MICHAEL B. MOSSMAN	PASSED		REVISED		SHEET NO. 14 OF 26 SHEETS			CONTRACT NO. 78277		
CHECKED - F.T. / G.R.A.								ILLINOIS FED. AID PROJECT		



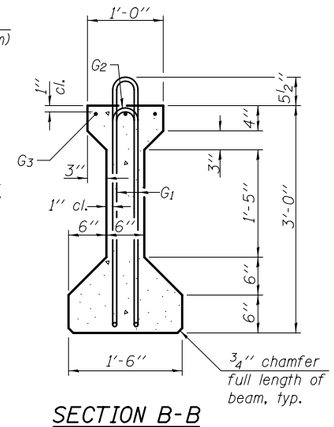
* 3 spaces at 3" = 9".
** 4-¾" ϕ threaded dowel rods at 3" cts., Each Face

ELEVATION OF BEAM
(Showing reinforcement & dimensions)

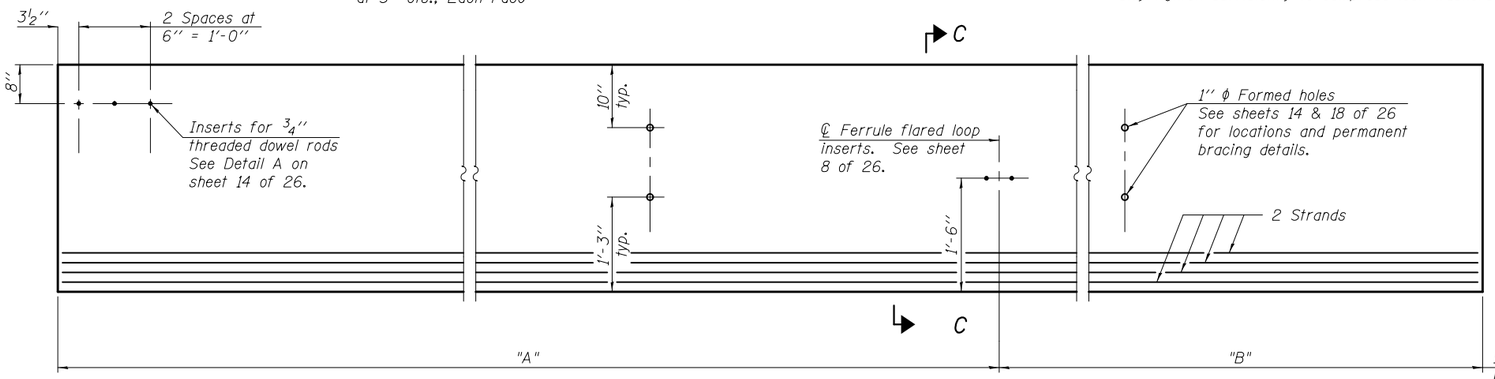
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



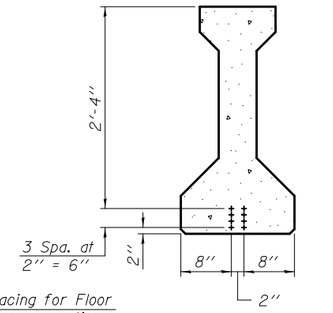
SECTION A-A



SECTION B-B



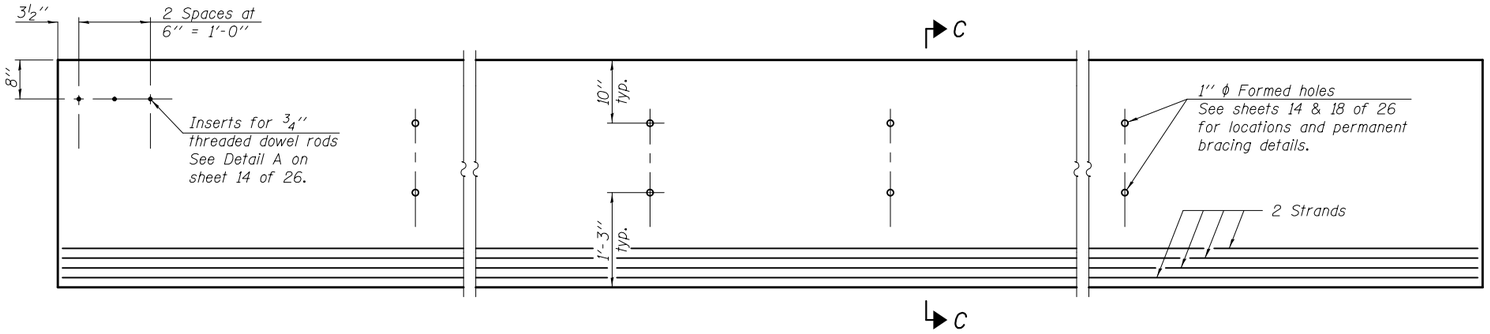
ELEVATION OF BEAMS 1 & 6
(Showing prestressing steel, inserts, and formed holes)



Insert spacing for Floor Drain clamp connections See table for dimensions

SECTION C-C

Location	"A"	"B"
Beam 1	24'-11½"	15'-0½"
Beam 6	28'-0½"	11'-11½"



ELEVATION OF BEAMS 2 THRU 5
(Showing prestressing steel, inserts, and formed holes)

***BAR LIST ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	35	#4	7'-7"	⊓L
G_2	8	#4	5'-8"	⊓
G_3	6	#5	20'-11"	—
G_4	38	#3	4'-1"	⌓
G_6	2	#8	6'-6"	⌒

***For information only

Notes:
See sheet 18 of 26 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.

PI-4-36 7-1-10

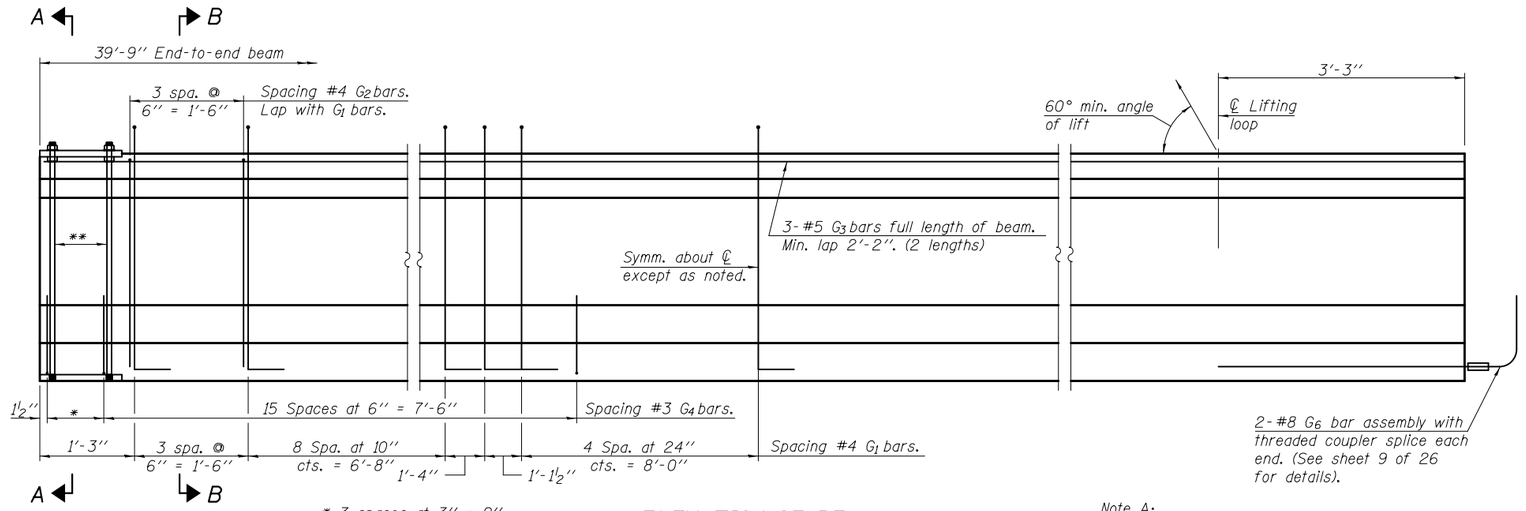
DESIGNED	-	MARK D. SHAFFER	
CHECKED	-	STEPHEN M. RYAN	
DRAWN	-	MICHAEL B. MOSSMAN	
CHECKED	-	F.T. / G.R.A.	

EXAMINED — Joyce F. Schaffe — ACTING ENGINEER OF BRIDGE DESIGN
PASSED — D. Carl Preuyer — ACTING ENGINEER OF BRIDGES AND STRUCTURES
DATE - JANUARY 24, 2014
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

36" PPC I-BEAM (SPAN 1)
STRUCTURE NO. 100 – 0081
SHEET NO. 15 OF 26 SHEETS

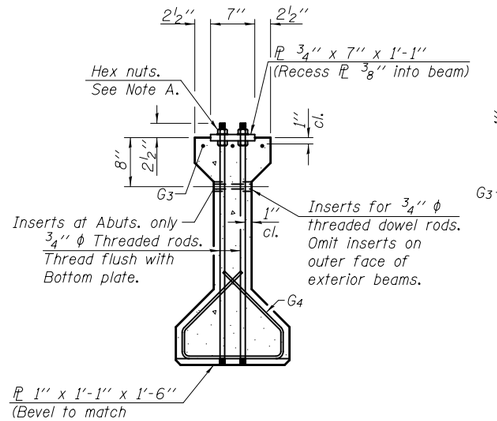
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	108
		CONTRACT NO. 78277		
	ILLINOIS FED. AID PROJECT			



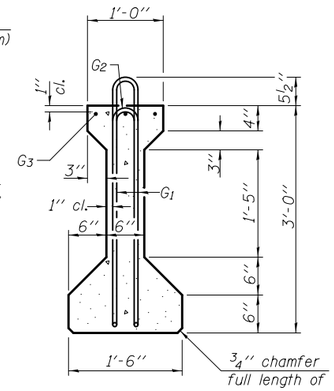
* 3 spaces at 3" = 9".
** 4-¾" ϕ threaded dowel rods at 3" cts., Each Face

ELEVATION OF BEAM
(Showing reinforcement & dimensions)

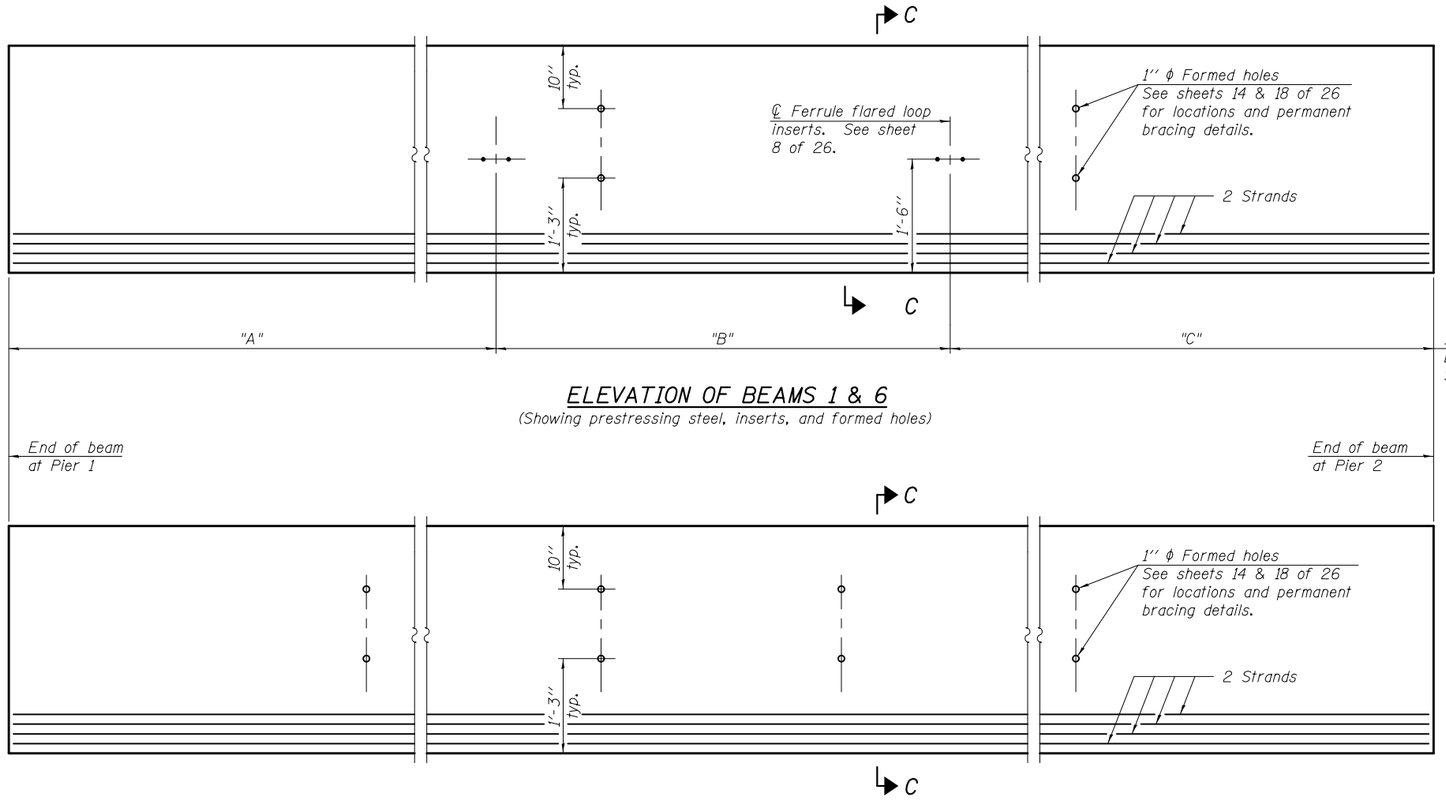
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



SECTION A-A

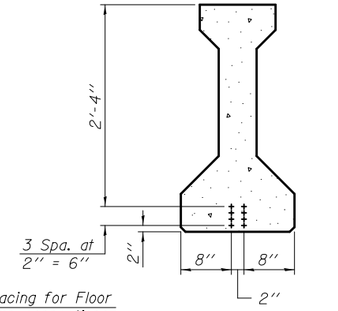


SECTION B-B



ELEVATION OF BEAMS 1 & 6
(Showing prestressing steel, inserts, and formed holes)

ELEVATION OF BEAMS 2 THRU 5
(Showing prestressing steel, inserts, and formed holes)



Insert spacing for Floor Drain clamp connections See table for dimensions

SECTION C-C

***BAR LIST
ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	35	#4	7'-7"	⊓L
G_2	8	#4	5'-8"	⊓
G_3	6	#5	20'-10"	—
G_4	38	#3	4'-1"	⌓
G_6	4	#8	6'-6"	⌒

***For information only

Location	"A"	"B"	"C"
Beam 1	11'-11½"	12'-9"	15'-0½"
Beam 6	15'-0½"	12'-9"	11'-11½"

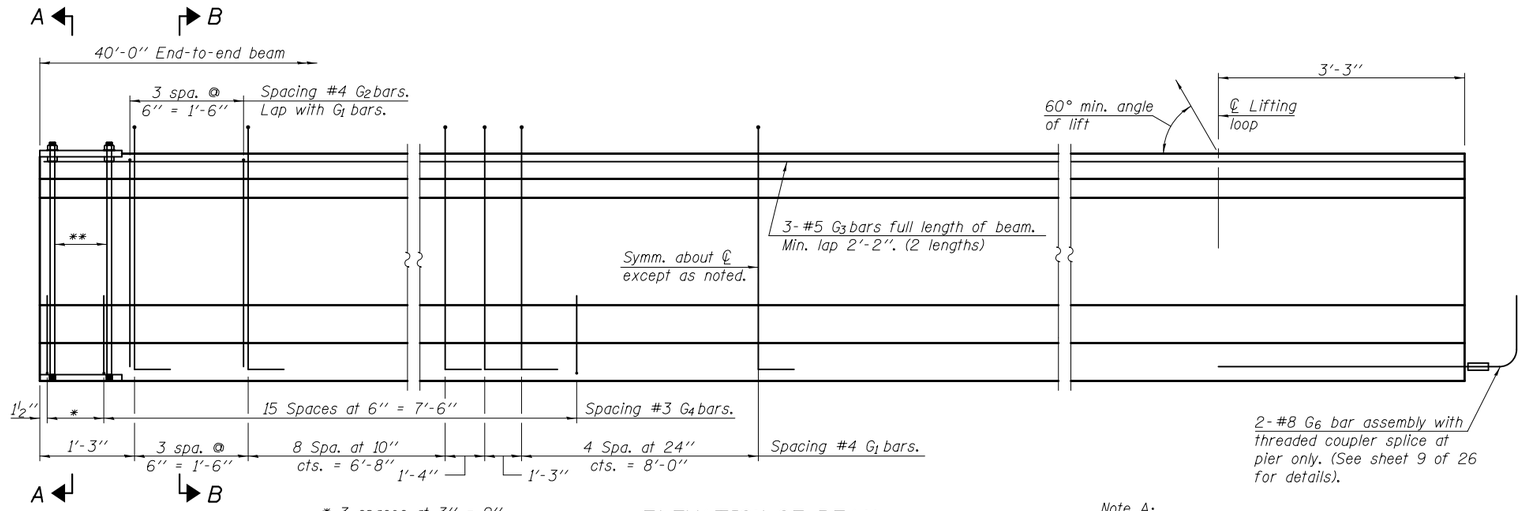
Notes:
See sheet 18 of 26 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.

PI-4-36 7-1-10

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - STEPHEN M. RYAN			
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED	
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN / ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

36" PPC I-BEAM (SPAN 2)
STRUCTURE NO. 100 – 0081
SHEET NO. 16 OF 26 SHEETS

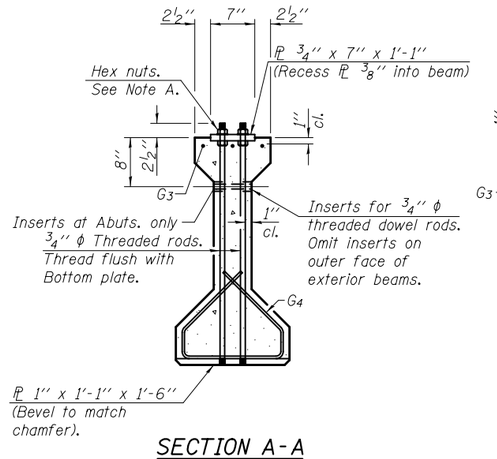
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	109
		CONTRACT NO. 78277		
	ILLINOIS FED. AID PROJECT			



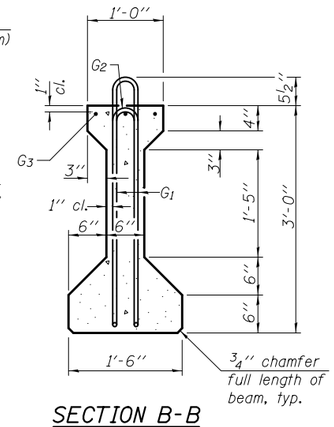
* 3 spaces at 3" = 9".
** 4-¾" ϕ threaded dowel rods at 3" cts., Each Face

ELEVATION OF BEAM
(Showing reinforcement & dimensions)

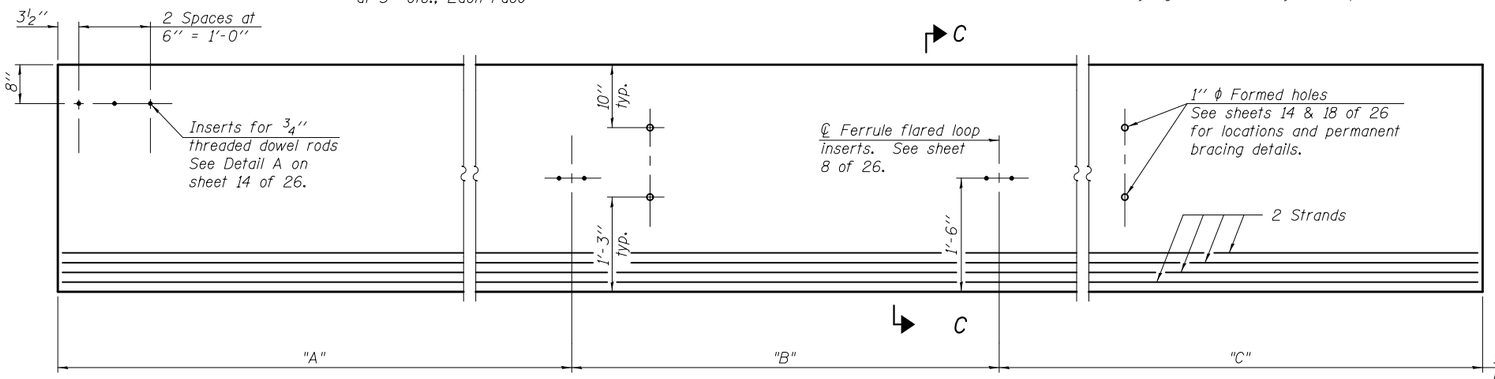
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



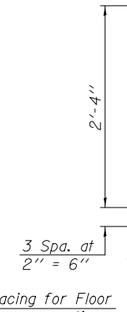
SECTION A-A



SECTION B-B



ELEVATION OF BEAMS 1 & 6
(Showing prestressing steel, inserts, and formed holes)



Insert spacing for Floor Drain clamp connections See table for dimensions

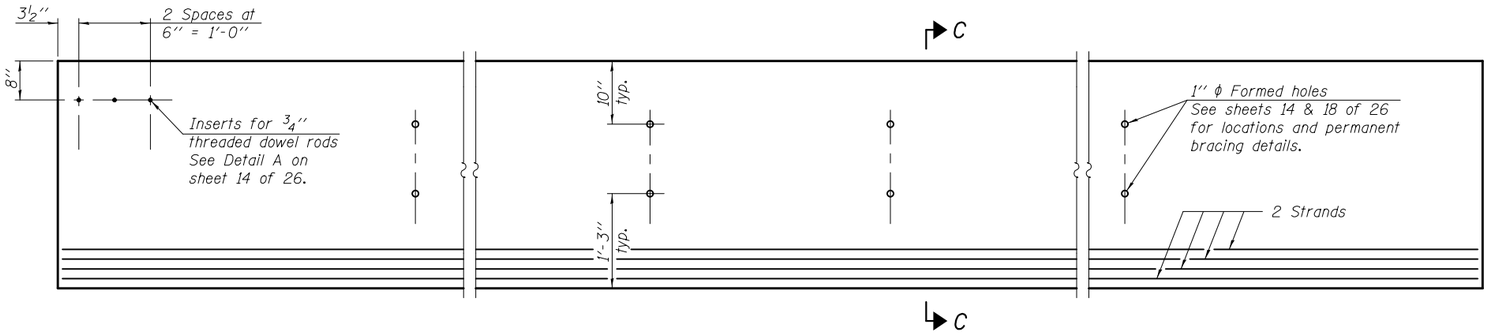
SECTION C-C

***BAR LIST ONE BEAM ONLY

Bar	No.	Size	Length	Shape
G_1	35	#4	7'-7"	⊓L
G_2	8	#4	5'-8"	⊓
G_3	6	#5	20'-11"	—
G_4	38	#3	4'-1"	⌓
G_6	2	#8	6'-6"	⌒

***For information only

Notes:
See sheet 18 of 26 for additional details and Bill of Material.
Required release strength, f'ci, shall be 5,000 psi.



ELEVATION OF BEAMS 2 THRU 5
(Showing prestressing steel, inserts, and formed holes)

Location	"A"	"B"	"C"
Beam 1	16'-0½"	12'-0"	11'-11½"
Beam 6	12'-11½"	12'-0"	15'-0½"

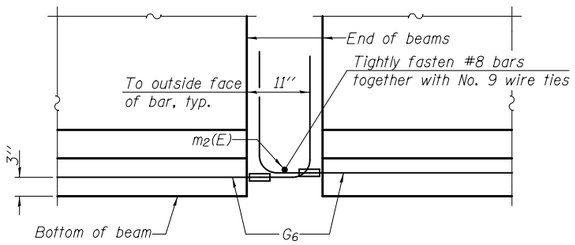
PI-4-36 7-1-10

DESIGNED -	MARK D. SHAFFER	EXAMINED	Wayne F. Schaffe, ACTING ENGINEER OF BRIDGE DESIGN
CHECKED -	STEPHEN M. RYAN	PASSED	D. Carl Tenpas, ACTING ENGINEER OF BRIDGES AND STRUCTURES
DRAWN -	MICHAEL B. MOSSMAN	DATE -	JANUARY 24, 2014
CHECKED -	F.T. / G.R.A.	REVISED	
		REVISED	

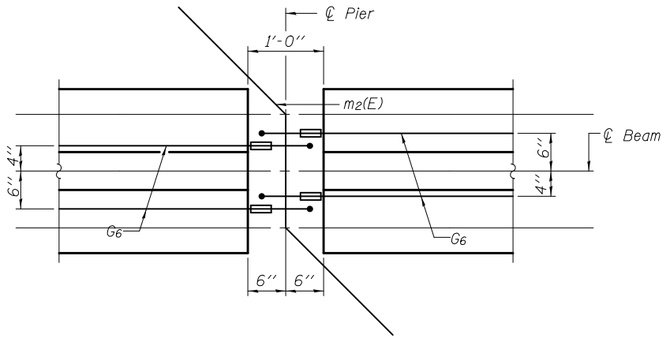
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

36" PPC I-BEAM (SPAN 3)
STRUCTURE NO. 100 – 0081
SHEET NO. 17 OF 26 SHEETS

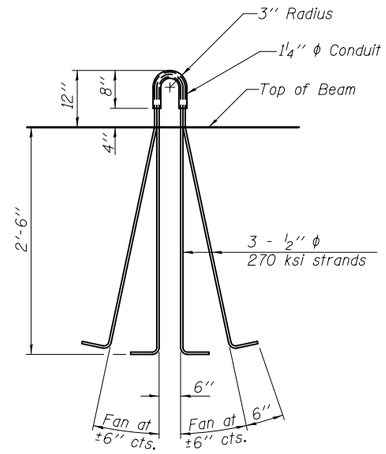
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	110
		CONTRACT NO. 78277		
	ILLINOIS FED. AID PROJECT			



ELEVATION OF BEAM AT PIER



PLAN OF BEAM AT PIER



LIFTING LOOP DETAIL

NOTES

Inserts for ¾'' ϕ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½'' and the nominal cross-sectional area shall be 0.153 sq. in.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

A minimum 2½'' ϕ lifting pin shall be used to engage the lifting loops during handling.

Tilt G_6 bars when necessary to maintain 1½'' clearance.

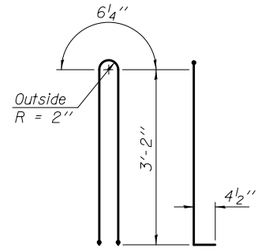
The top and bottom plates shall be AASHTO M270 Grade 50.

The bottom plates shall be galvanized according to AASHTO M111. Top plates and threaded rods need not be galvanized.

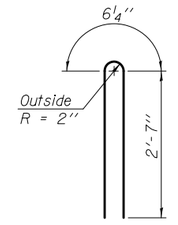
Threaded rods shall be ASTM F 1554 Grade 55.

The G_6 bar assembly shall be capable of developing 125 percent of the yield strength of the grade 60 reinforcement bar components. The assembly shall allow completion of the splice without turning of the hook bar. The hook bar shall be threaded such that the entire coupler can be threaded onto the hook bar.

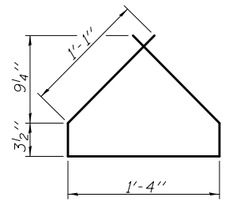
Beams requiring G_6 bar assemblies shall not be released from the fabricator until they have attained 45 days of age or older.



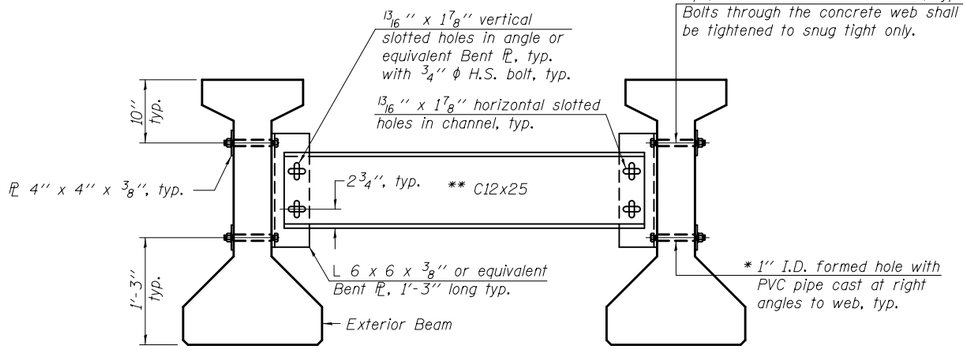
BAR G1

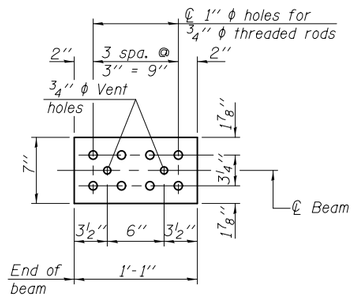


BAR G2

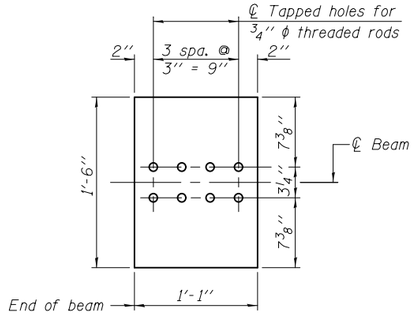


BAR G4





TOP PLATE



BOTTOM PLATE

See bearing details for pintle hole locations when required.

Notes:

All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.

Two hardened washers are required for each set of oversized holes.

All holes shall be 15/16''ϕ unless otherwise noted.

5/16'' x 3'' x 3'' plate washers are required over all slotted holes.

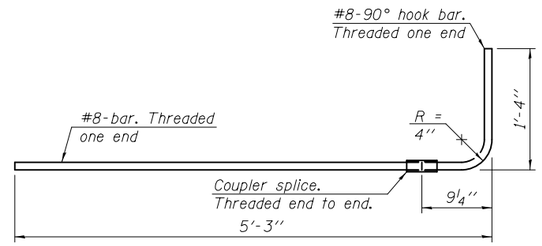
All bolts shall be galvanized according to AASHTO M232.

Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete I-Beams.

* Fabricator shall locate to miss strands within permissible tolerances.

** Alternate C12x30 channels are permitted to facilitate material acquisition.



G6 BAR ASSEMBLY

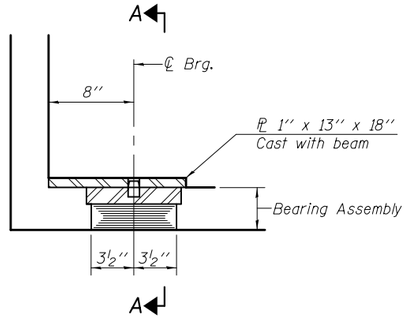
PERMANENT BRACING DETAILS
FOR 36'' PPC I-BEAMS

BILL OF MATERIAL

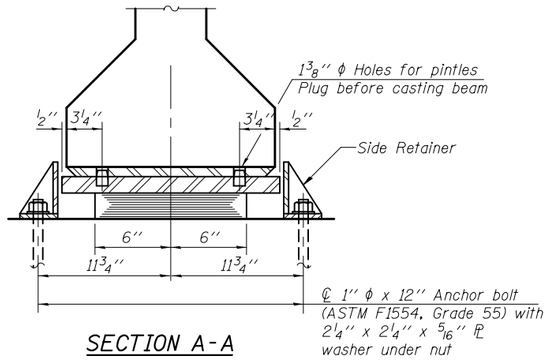
Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 36''	Ft.	718.5

PI-4-36D 1-28-11

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	36'' PPC I-BEAM DETAILS STRUCTURE NO. 100 – 0081	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN					9588	39B-2	WILLIAMSON	224	111
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED						CONTRACT NO. 78277	
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 18 OF 26 SHEETS			ILLINOIS	FED. AID PROJECT	

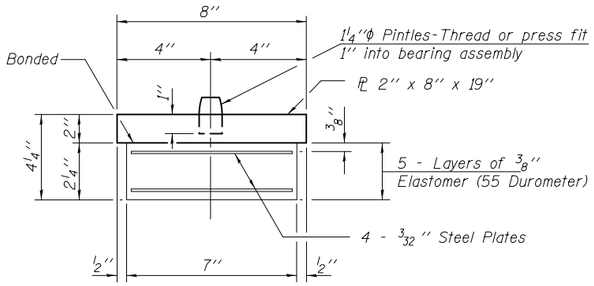


SECTION AT ABUT.

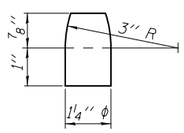


SECTION A-A

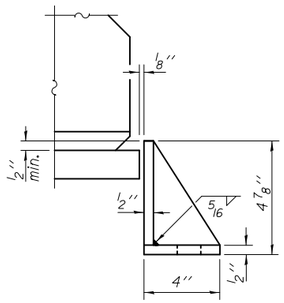
TYPE I ELASTOMERIC EXP. BRG.

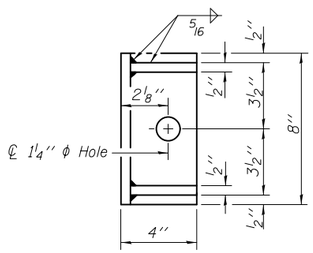


BEARING ASSEMBLY



PINTLE





SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

Notes:

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts for side retainers may be cast in place or installed in holes drilled after supporting members are in place and prior to pouring the deck.

Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The side retainers and the top elastomeric plates shall be galvanized after shop fabrication according to AASHTO M 111. Side retainers required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.

See sheet 18 of 26 for additional details of plate cast with beam.

The structural steel bearing plates of the bearing assembly shall conform to the requirements of AASHTO M 270, Grade 50.

All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

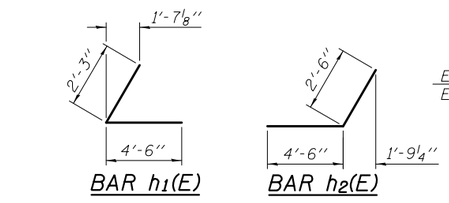
BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12
Anchor Bolts, 1''	Each	24

PI-2E-1 1-27-12

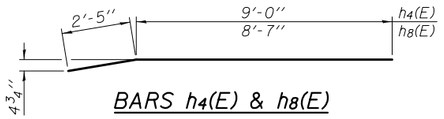
DESIGNED - MARK D. SHAFFER	EXAMINED	Joyce F. Shaffer ACTING ENGINEER OF BRIDGE DESIGN	DATE - JANUARY 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS STRUCTURE NO. 100 – 0081
CHECKED - STEPHEN M. RYAN					
DRAWN - MICHAEL B. MOSSMAN	PASSED	D. Carl Puzey ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 19 OF 26 SHEETS
CHECKED - F.T. / G.R.A.			REVISED		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	112
		CONTRACT NO. 78277		
	ILLINOIS	FED. AID PROJECT		

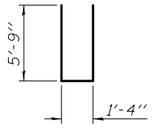


BAR $h_1(E)$

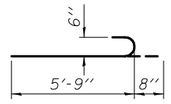
BAR $h_2(E)$



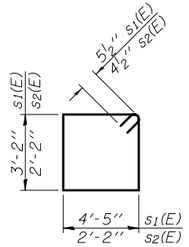
BARS $h_4(E)$ & $h_8(E)$



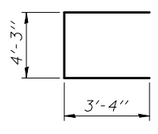
BAR n(E)



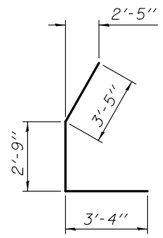
BAR $n_1(E)$



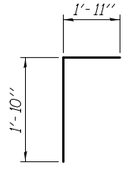
BARS $s_1(E)$ & $s_2(E)$



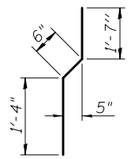
BAR u(E)



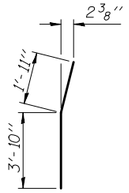
BAR $u_1(E)$



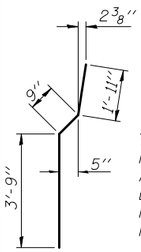
BAR v(E)



BAR $v_1(E)$



BAR $v_3(E)$



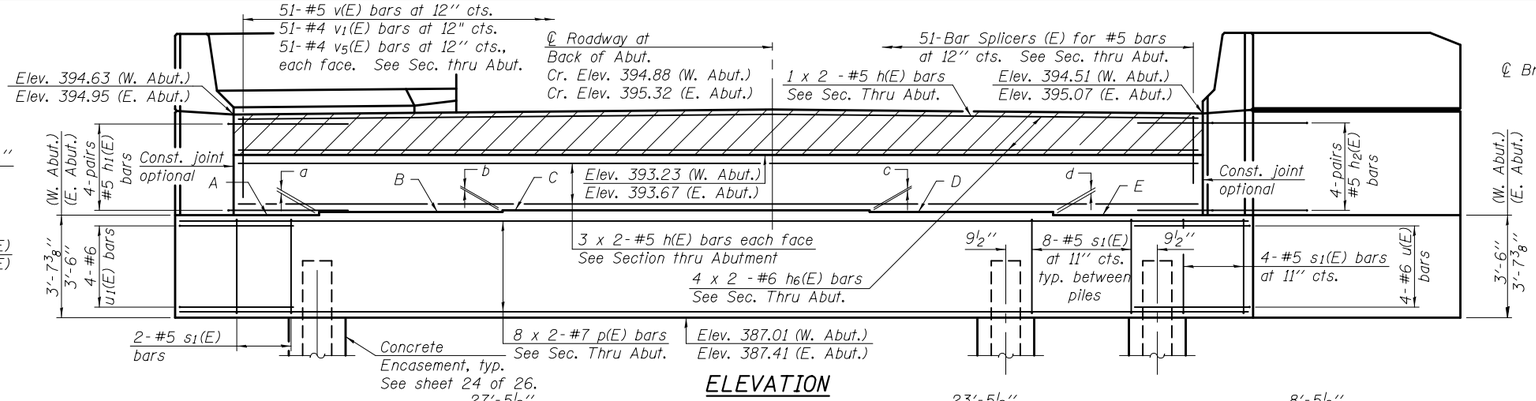
BAR $v_4(E)$

PILE DATA

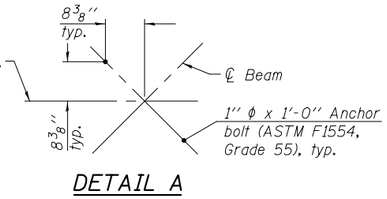
Type: Steel HP 12x74
Nominal Required Bearing: 589 Kips
Allowable Resistance Available: 196 Kips
Est. Length: 51'
No. Production Piles: 9 (E. Abut.); 8 (W. Abut.)
No. Test Piles: 1 (West abutment only)

MINIMUM BAR LAP

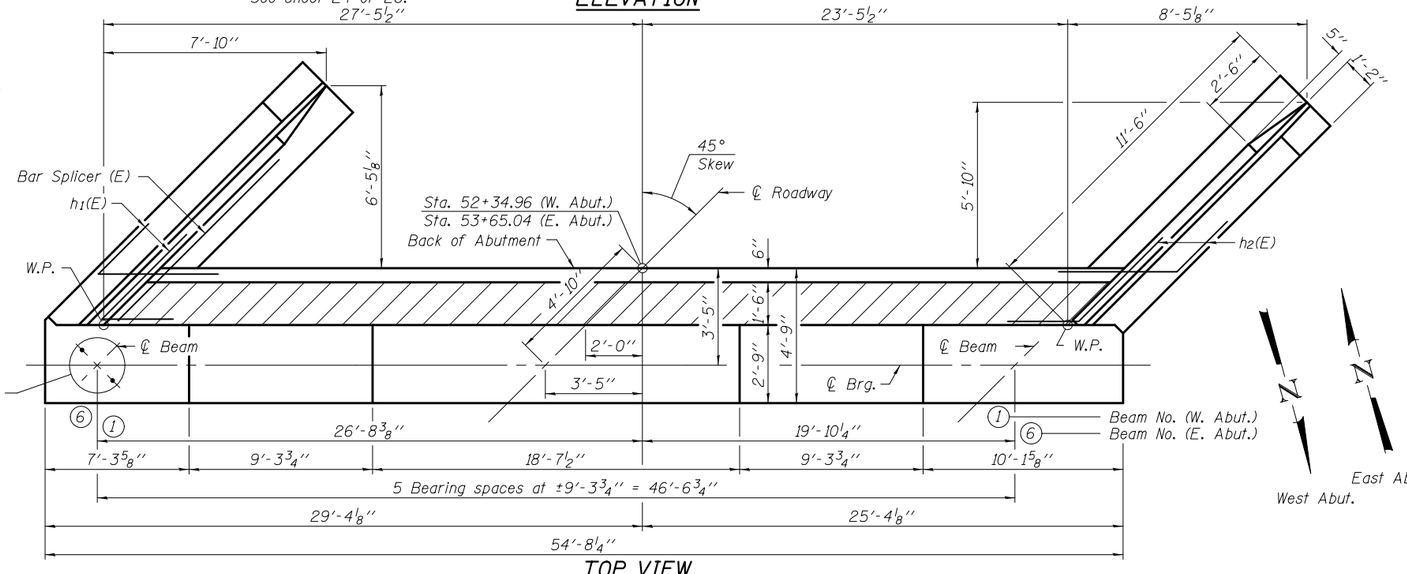
#5 bar = 2'-10"
#6 bar = 3'-4"
#7 bar = 4'-6"



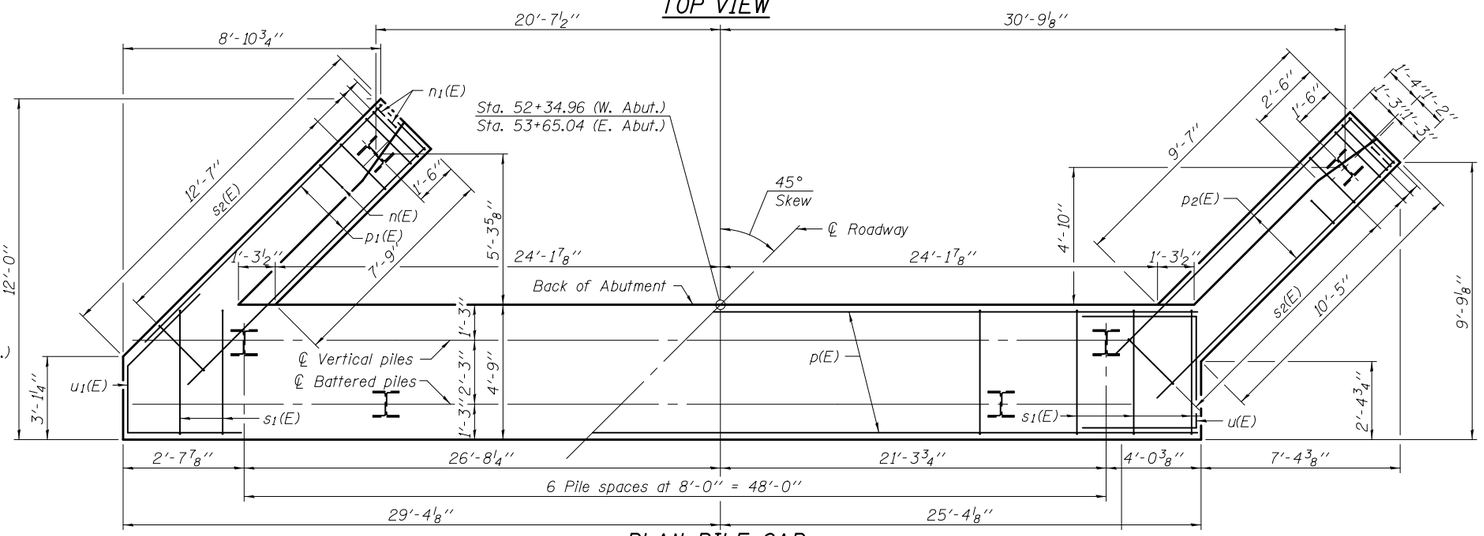
ELEVATION



DETAIL A



TOP VIEW



PLAN-PILE CAP

TWO ABUTMENTS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	28	#5	26'-9"	
$h_1(E)$	16	#5	6'-9"	
$h_2(E)$	16	#5	7'-0"	
$h_3(E)$	16	#4	12'-4"	
$h_4(E)$	12	#4	11'-5"	
$h_5(E)$	4	#4	12'-0"	
$h_6(E)$	16	#6	27'-0"	
$h_7(E)$	16	#4	10'-2"	
$h_8(E)$	12	#4	11'-0"	
$h_9(E)$	4	#4	10'-4"	
n(E)	34	#6	12'-10"	
$n_1(E)$	24	#6	6'-5"	
p(E)	32	#7	29'-6"	
$p_1(E)$	12	#7	12'-3"	
$p_2(E)$	12	#7	11'-0"	
$s_1(E)$	108	#5	16'-1"	
$s_2(E)$	52	#4	9'-5"	
u(E)	8	#6	10'-11"	
$u_1(E)$	8	#6	9'-6"	
v(E)	102	#5	3'-9"	
$v_1(E)$	102	#4	3'-5"	
$v_2(E)$	48	#6	6'-6"	
$v_3(E)$	12	#6	5'-9"	
$v_4(E)$	36	#6	6'-5"	
$v_5(E)$	204	#4	5'-0"	
Structure Excavation	Cu. Yd.		124.4	
Concrete Structures	Cu. Yd.		112.2	
Reinforcement Bars, Epoxy Coated	Pound		10,160	
Furnishing Steel Piles, HP 12x74	Foot		867	
Driving Piles	Foot		867	
Test Pile Steel HP 12x74	Each		1	
Concrete Encasement	Cu. Yd.		6.3	
Concrete Sealer	Sq. Ft.		301	

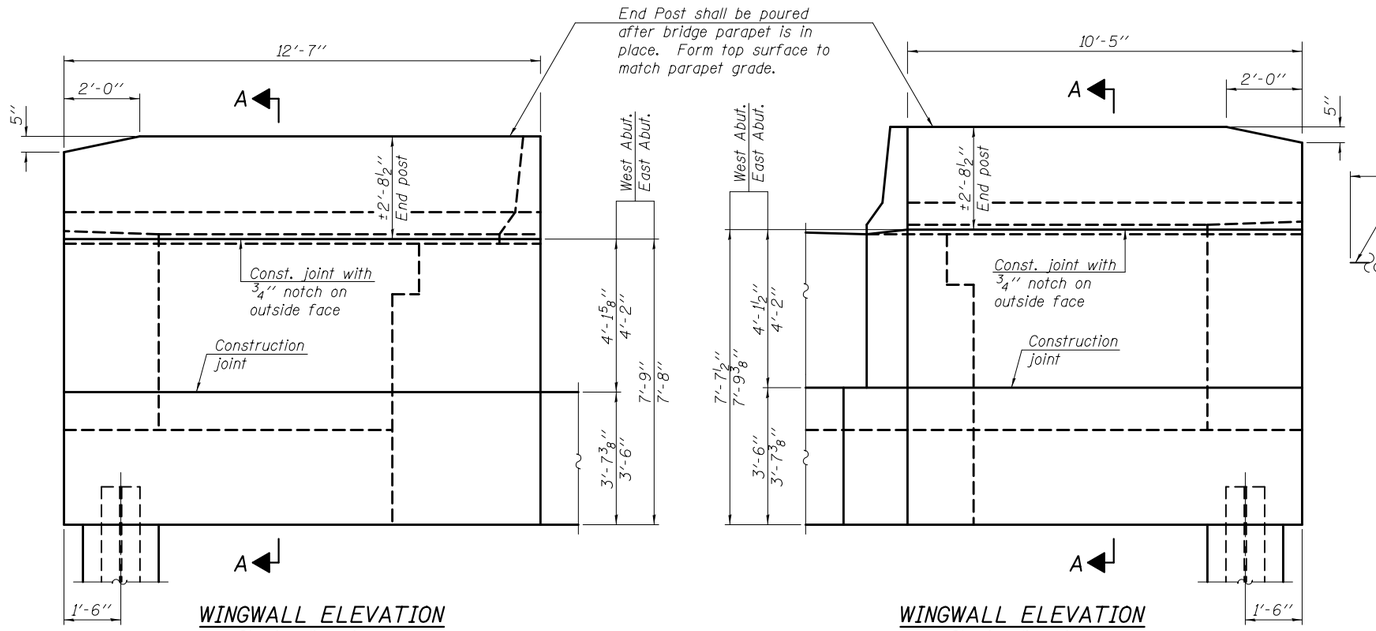
For details of Bar Splicers, see sheet 25 of 26.
Bars indicated thus 8 x 2-#7 etc. indicates 8 lines of bars with 2 lengths per line.
For Section thru Abutment, see sheet 21 of 26.

Dim./ Elev.	West Abutment	East Abutment
a	1 1/4"	1 3/4"
b	7/8"	1 1/2"
c	1 1/2"	7/8"
d	1 3/4"	1 1/4"
A	390.62	390.91
B	390.72	391.06
C	390.79	391.19
D	390.66	391.12
E	390.51	391.02

A-1-R (>30°) 1-27-12

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
CHECKED - STEPHEN M. RYAN	PASSED	REVISED	ABUTMENTS STRUCTURE NO. 100 – 0081
DRAWN - MICHAEL B. MOSSMAN	ACTING ENGINEER OF BRIDGE DESIGN	REVISED	SHEET NO. 20 OF 26 SHEETS
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGES AND STRUCTURES		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	113
		CONTRACT NO. 78277		
	ILLINOIS FED. AID PROJECT			



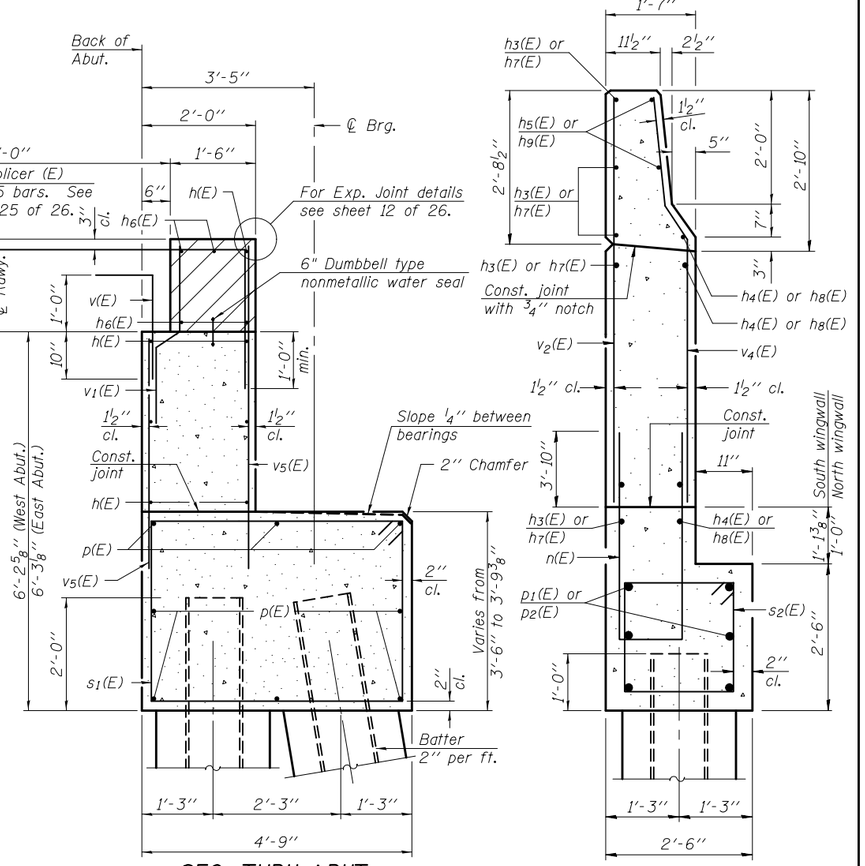
WINGWALL ELEVATION

Showing dimensions
(West Abutment - South wingwall)
(East Abutment - North wingwall)

WINGWALL ELEVATION

Showing dimensions
(West Abutment - North wingwall)
(East Abutment - South wingwall)

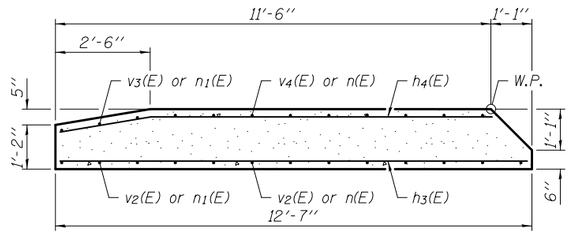
* Cut in field to fit taper.



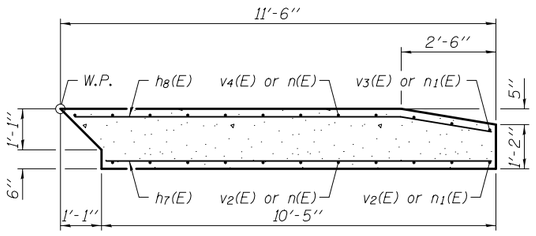
SEC. THRU ABUT.

(at Rt. L's to abutment)

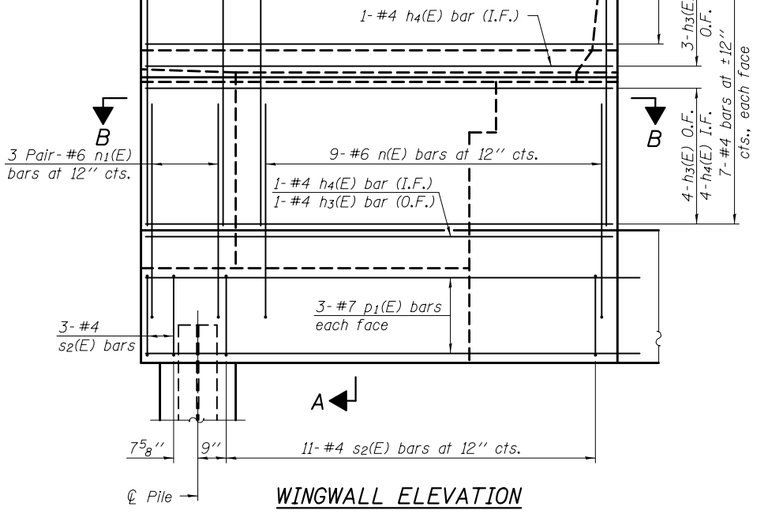
SECTION A-A



SECTION B-B

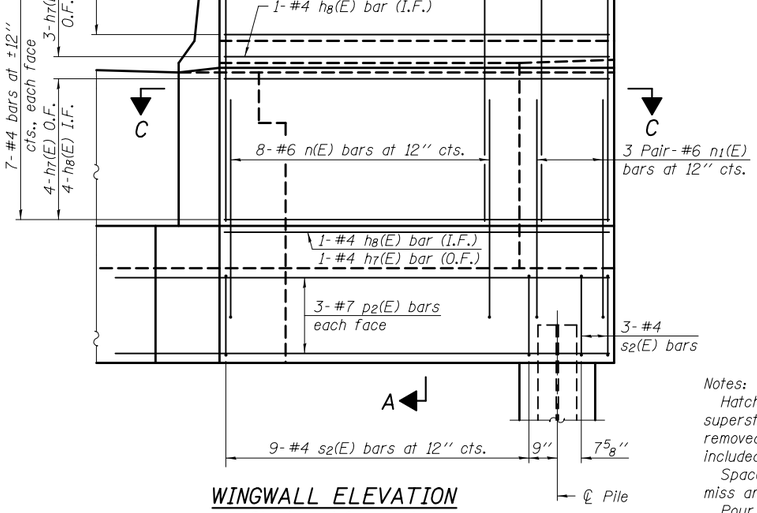


SECTION C-C



WINGWALL ELEVATION

Showing reinforcement
(West Abutment - South wingwall)
(East Abutment - North wingwall)



WINGWALL ELEVATION

Showing reinforcement
(West Abutment - North wingwall)
(East Abutment - South wingwall)

Notes:

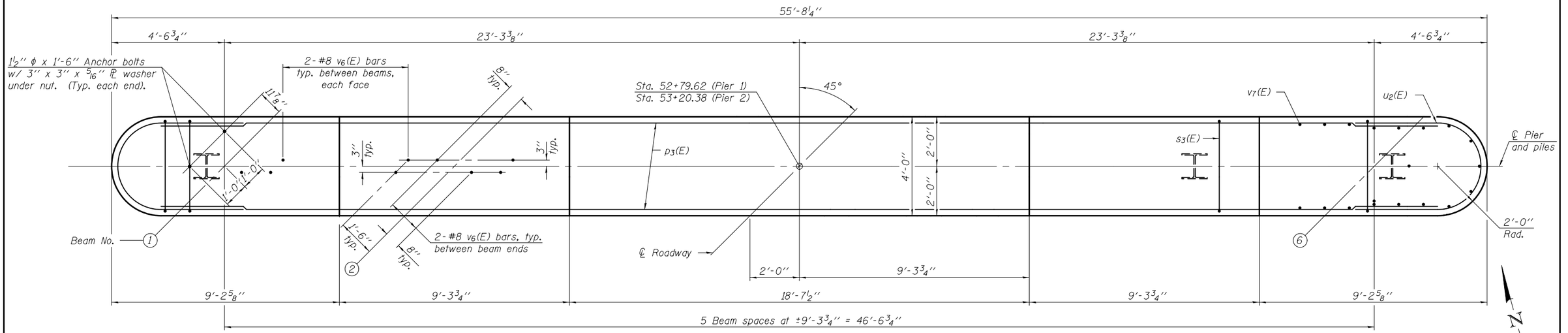
Hatched area to be poured after superstructure else work has been removed. Quantity of concrete included with Concrete Superstructure.

Space reinforcement in cap to miss anchor bolts.

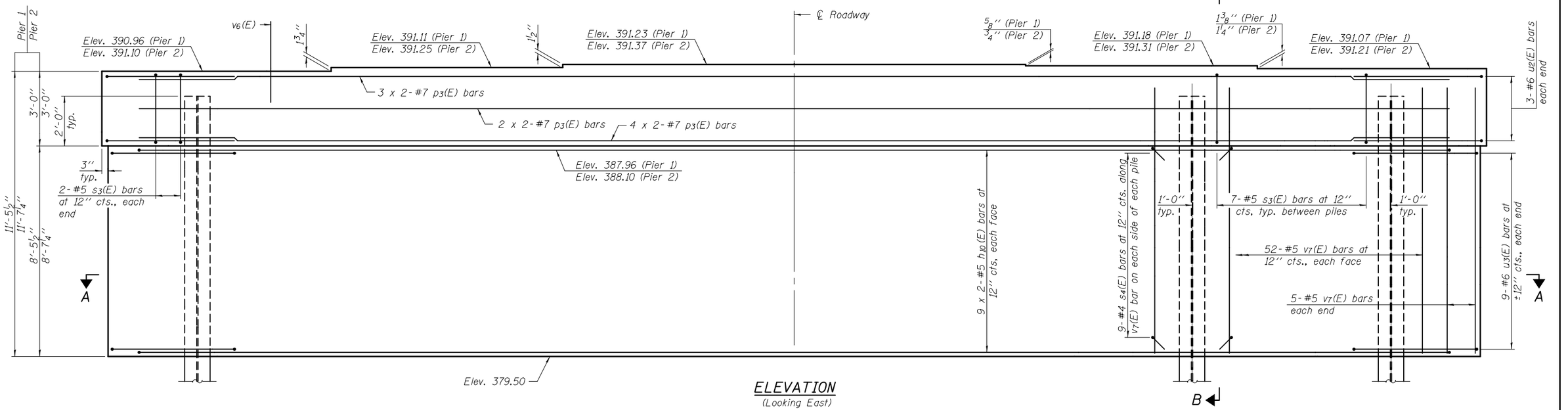
Pour steps monolithically with cap. Quantity of concrete in end post included with Concrete Superstructure on sheet 8 of 26.

For Concrete Encasement details, see sheet 24 of 26.

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**ABUTMENTS STRUCTURE NO. 100 – 0081**	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN					9588	39B-2	WILLIAMSON	224	114
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED					CONTRACT NO. 78277		
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		SHEET NO. 21 OF 26 SHEETS			ILLINOIS FED. AID PROJECT		



TOP PLAN



ELEVATION
(Looking East)

Notes:
Bars indicated thus 4 x 2-#7 etc. indicates 4 lines of bars with 2 lengths per line.
See sheet 23 of 26 for Sections A-A and B-B.

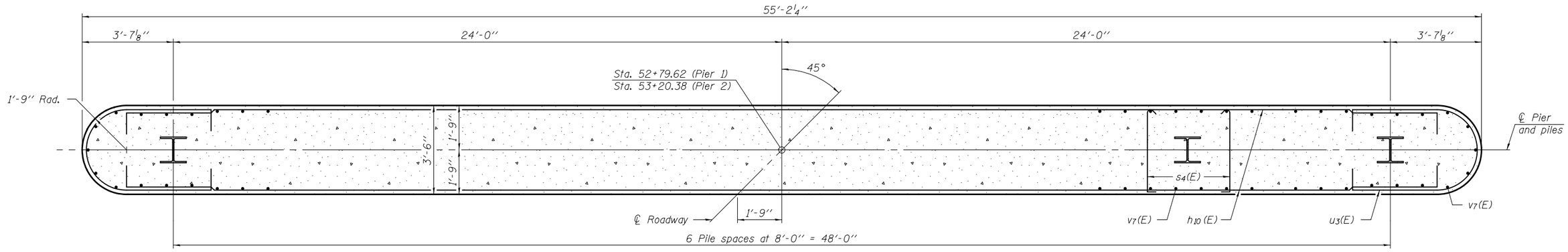
MINIMUM BAR LAP

#5 bar = 2'-10"
#6 bar = 3'-4"
#7 bar = 4'-6"

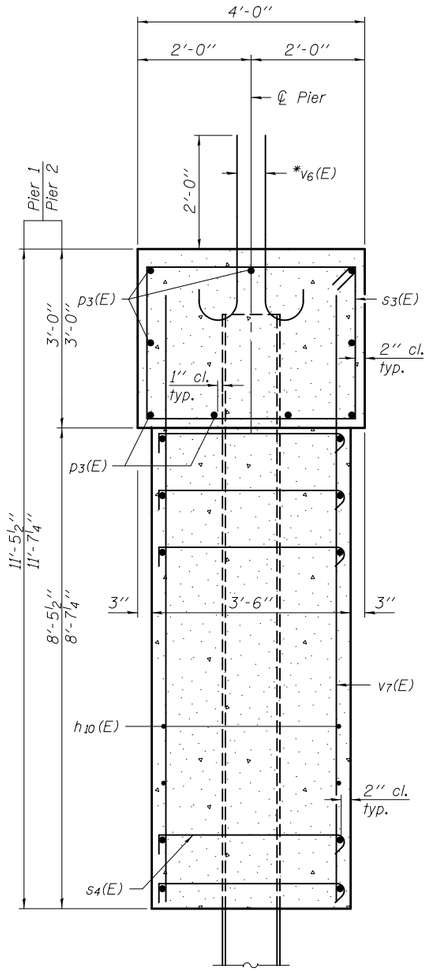
DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - STEPHEN M. RYAN		REVISED	
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED	
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES		

PIERS
STRUCTURE NO. 100 – 0081
SHEET NO. 22 OF 26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	115
		CONTRACT NO. 78277		
	ILLINOIS FED. AID PROJECT			



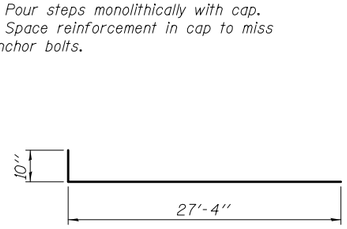
SECTION A-A



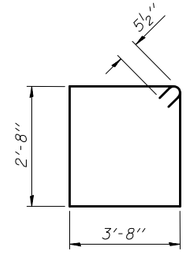
SECTION B-B

* Tilt #8 $v_6(E)$ bars as required to maintain clearance.

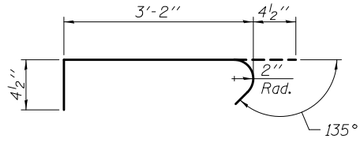
Notes:
Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.



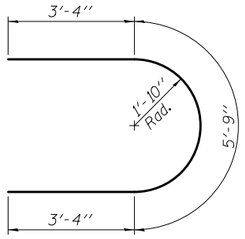
BAR $h_{10}(E)$



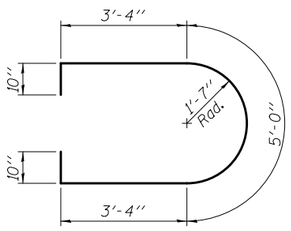
BAR $s_3(E)$



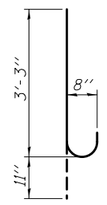
BAR $s_4(E)$



BAR $u_2(E)$



BAR $u_3(E)$



BAR $v_6(E)$

PILE DATA

Type: Steel HP 12x74
Nominal Required Bearing: 589 Kips
Allowable Resistance Available: 196 Kips
Est. Length: 58'
No. Production Piles: 7 (Each pier)
No. Test Piles: 0

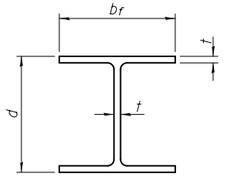
TWO PIERS BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$h_{10}(E)$	72	#5	28'-2"	
$p_3(E)$	36	#7	28'-2"	
$s_3(E)$	92	#5	13'-7"	
$s_4(E)$	252	#4	3'-11"	
$u_2(E)$	12	#6	12'-5"	
$u_3(E)$	36	#6	13'-4"	
$v_6(E)$	60	#8	4'-2"	
$v_7(E)$	228	#5	10'-9"	
Concrete Structures		Cu. Yd.	172.0	
Reinforcement Bars, Epoxy Coated		Pound	10,320	
Cofferdam Excavation		Cu. Yd.	215.4	
Furnishing Steel Piles HP 12x74		Foot	812	
Driving Piles		Foot	812	
Cofferdam (Type I) Location 1		Each	1	
Cofferdam (Type I) Location 2		Each	1	

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
CHECKED - STEPHEN M. RYAN			
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED	
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED	

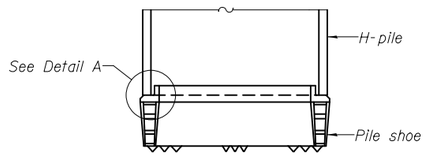
PIERS
STRUCTURE NO. 100 – 0081
SHEET NO. 23 OF 26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	116
		CONTRACT NO. 78277		
	ILLINOIS	FED. AID PROJECT		

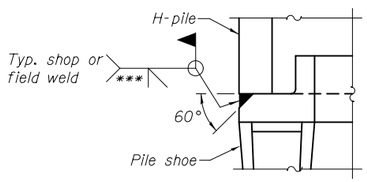


STEEL PILE TABLE

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"

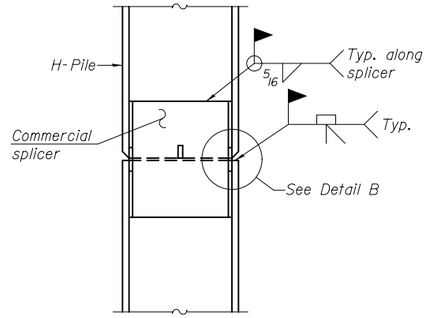


ELEVATION

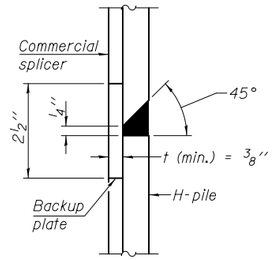


DETAIL A

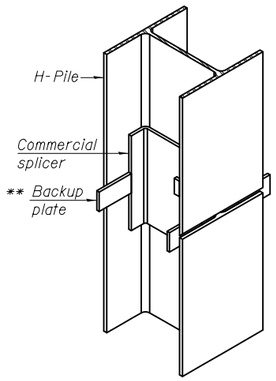
H-PILE SHOE ATTACHMENT



ELEVATION

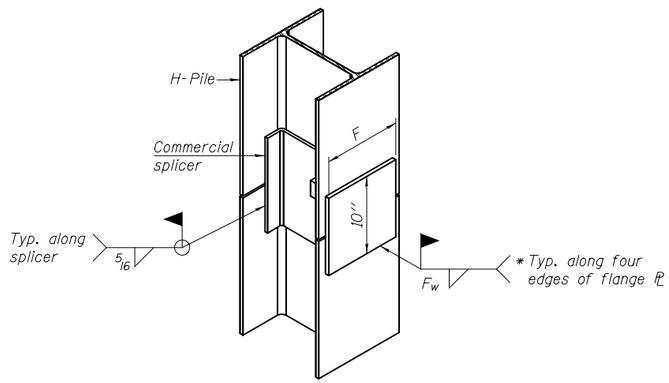


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



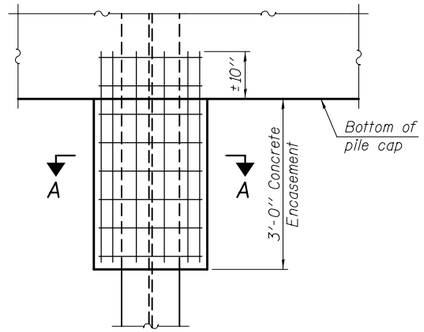
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

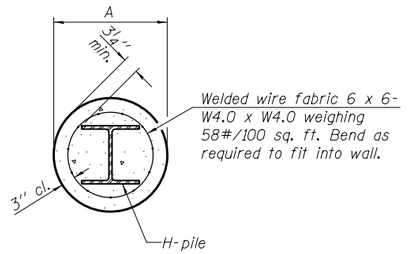
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



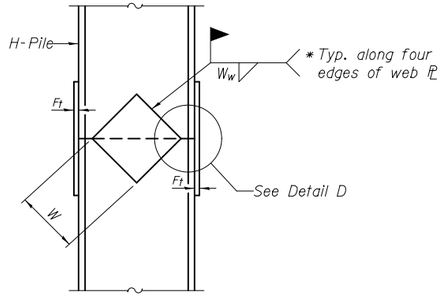
ELEVATION



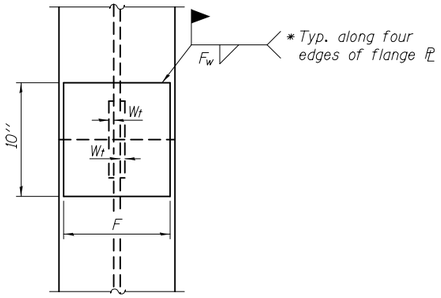
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

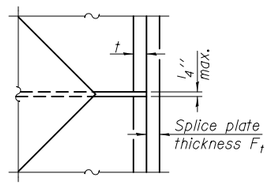
PILE ENCASEMENT



ELEVATION



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.

F-HP 1-27-12

DESIGNED	-	MARK D. SHAFFER	
CHECKED	-	STEPHEN M. RYAN	
DRAWN	-	MICHAEL B. MOSSMAN	
CHECKED	-	F.T. / G.R.A.	

EXAMINED

PASSED

Joyce F. Schiff
ACTING ENGINEER OF BRIDGE DESIGN
G. Carl Tennyson
ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 24, 2014

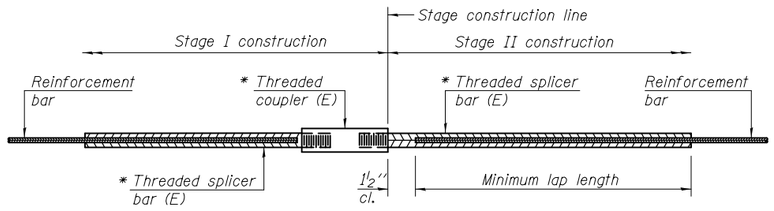
REVISED

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 100 – 0081
SHEET NO. 24 OF 26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	117
		CONTRACT NO. 78277		
		ILLINOIS FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

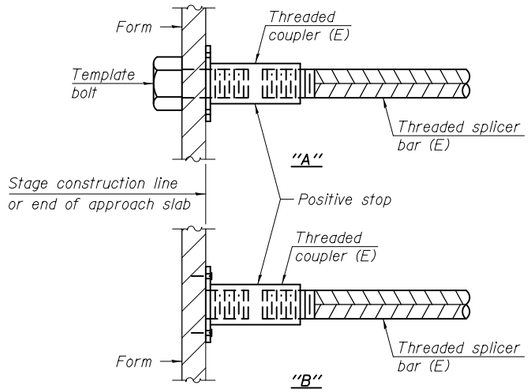
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C
Table 5: Epoxy bar, Class C
Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1½" + thread length

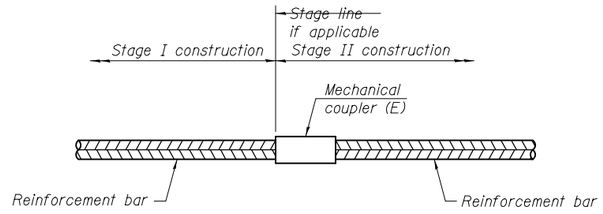
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



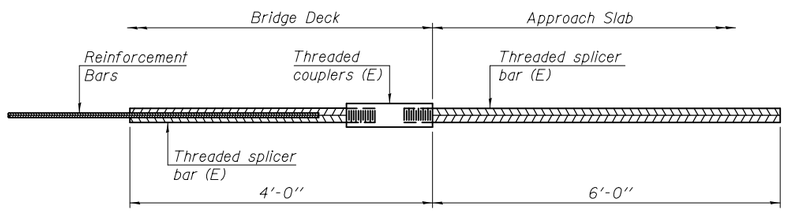
INSTALLATION AND SETTING METHODS

"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.



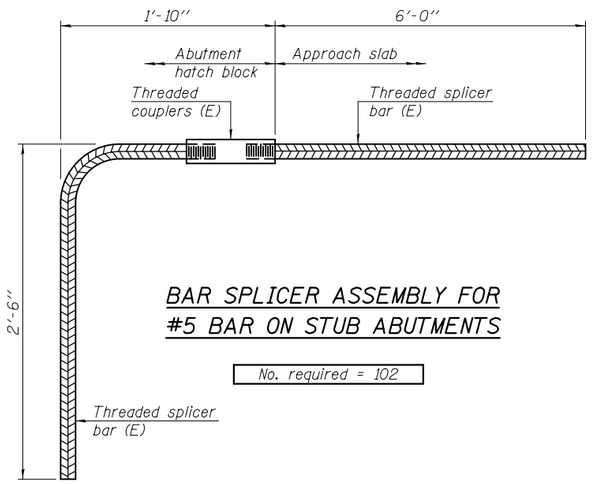
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required = 102

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

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

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 1-27-12

DESIGNED - MARK D. SHAFFER	EXAMINED	DATE - JANUARY 24, 2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 100 – 0081	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHECKED - STEPHEN M. RYAN					9588	39B-2	WILLIAMSON	224	118
DRAWN - MICHAEL B. MOSSMAN	PASSED	REVISED		SHEET NO. 25 OF 26 SHEETS			CONTRACT NO. 78277		
CHECKED - F.T. / G.R.A.	ACTING ENGINEER OF BRIDGE DESIGN ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED					ILLINOIS FED. AID PROJECT		

Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG

Date 8/2/03

ROUTE FAU 9588 DESCRIPTION FAU 9588 over Tributary to Pond Creek LOGGED BY Bryan Keller

SECTION 39Q(2B-1) LOCATION 1.0 mi. E. of Herrin, SEC. 21, TWP. 8 S, RNG. 2 E, 3 PM

COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0081
Station 53+00.00

BORING NO. 1-S
Station 53+55
Offset 1.00ft Rt.
Ground Surface Elev. 386.6 ft

Surface Water Elev. 91.9 ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 75.6 ft
Upon Completion 78.1 ft
After 72 Hrs. 92.5 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Medium, moist to very moist, brown, Silty Clay Loam A-6			
	WH		
	1	0.9	29
	1	S	
382.1			
Medium, very moist, brown mottled grey, Clay to Silty Clay A7-6	WH		
	WH	0.9	28
	1	B	
379.6			
Stiff, very moist, brown mottled grey, Clay to Silty Clay A7-6	WH		
	2	1.1	25
	1	B	
377.1			
Medium, moist, brown, Silty Clay Loam A-6	1		
	2	0.8	19
	2	S	
372.1			
Stiff, moist, brown, Sandy Clay to Sandy Clay Loam A-6	1		
	3	1.2	21
	4	S	
369.6			
Medium, very moist, brown, Silty Clay Loam A-6 with Sand and some Gravel Layers	1		
	1	0.8	19
	2	S	
367.1			
	WH		

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff, very moist, brown, Silty Clay Loam A-6 with Sand Layers (continued)	1	1.3	34
	1	S	
364.6			
Soft to medium, very moist, grey, Silty Clay Loam A-6	1		
	1	0.5	33
	2	S	
362.1			
Medium, very moist, grey, Silty Clay Loam A-6 with Sand Layers	1		
	2	0.9	21
	3	S	
359.6			
Stiff, very moist, grey, Silty Clay Loam A-6 with Silt Loam Seams	1		
	3	1.2	23
	4	S	
357.1			
Very stiff, moist, grey, Silty Clay A-6	1		
	3	3.3	18
	6	S	
354.6			
Very stiff, moist, grey, Clay Loam A-6	1		
	5	3.9	16
	8	S	
352.1			
Very stiff, moist, grey, Clay Loam to Silty Clay Loam A-6	1		
	3	2.5	17
	5	B	
349.6			
Very stiff, very moist, grey, Clay A7-6	1		
	2	2.4	35
	3	S	
347.1			
	1		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

Illinois Department of Transportation
Division of Highways
District Nine Materials

SOIL BORING LOG

Date 8/2/03

ROUTE FAU 9588 DESCRIPTION FAU 9588 over Tributary to Pond Creek LOGGED BY Bryan Keller

SECTION 39Q(2B-1) LOCATION 1.0 mi. E. of Herrin, SEC. 21, TWP. 8 S, RNG. 2 E, 3 PM

COUNTY Williamson DRILLING METHOD _____ HAMMER TYPE _____

STRUCT. NO. 100-0081
Station 53+00.00

BORING NO. 1-S
Station 53+55
Offset 1.00ft Rt.
Ground Surface Elev. 386.6 ft

Surface Water Elev. 91.9 ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter 75.6 ft
Upon Completion 78.1 ft
After 72 Hrs. 92.5 ft

DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Stiff, wet, brown, Silty Clay to Clay A7-6 (continued)	1	1.7	49
	2	S	
342.1			
Hard, dry, grey, Clay Shale	100/2"		
	100/2"		
331.6			
	100/2"		
Bottom of hole = 55.0 ft.			
Free water observed at 19.5 ft.			
Elevation referenced to CL of Existing Structure #100-3009 over East abutment; Assumed Elevation = 391.6 ft.			
To convert "N" values to "N60" values, multiply by 1.25.			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
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)

DESIGNED -	MARK D. SHAFFER	EXAMINED	
CHECKED -	STEPHEN M. RYAN		ACTING ENGINEER OF BRIDGE DESIGN
DRAWN -	MICHAEL B. MOSSMAN	PASSED	
CHECKED -	F.T. / G.R.A.		ACTING ENGINEER OF BRIDGES AND STRUCTURES

DATE - JANUARY 24, 2014
REVISED
REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

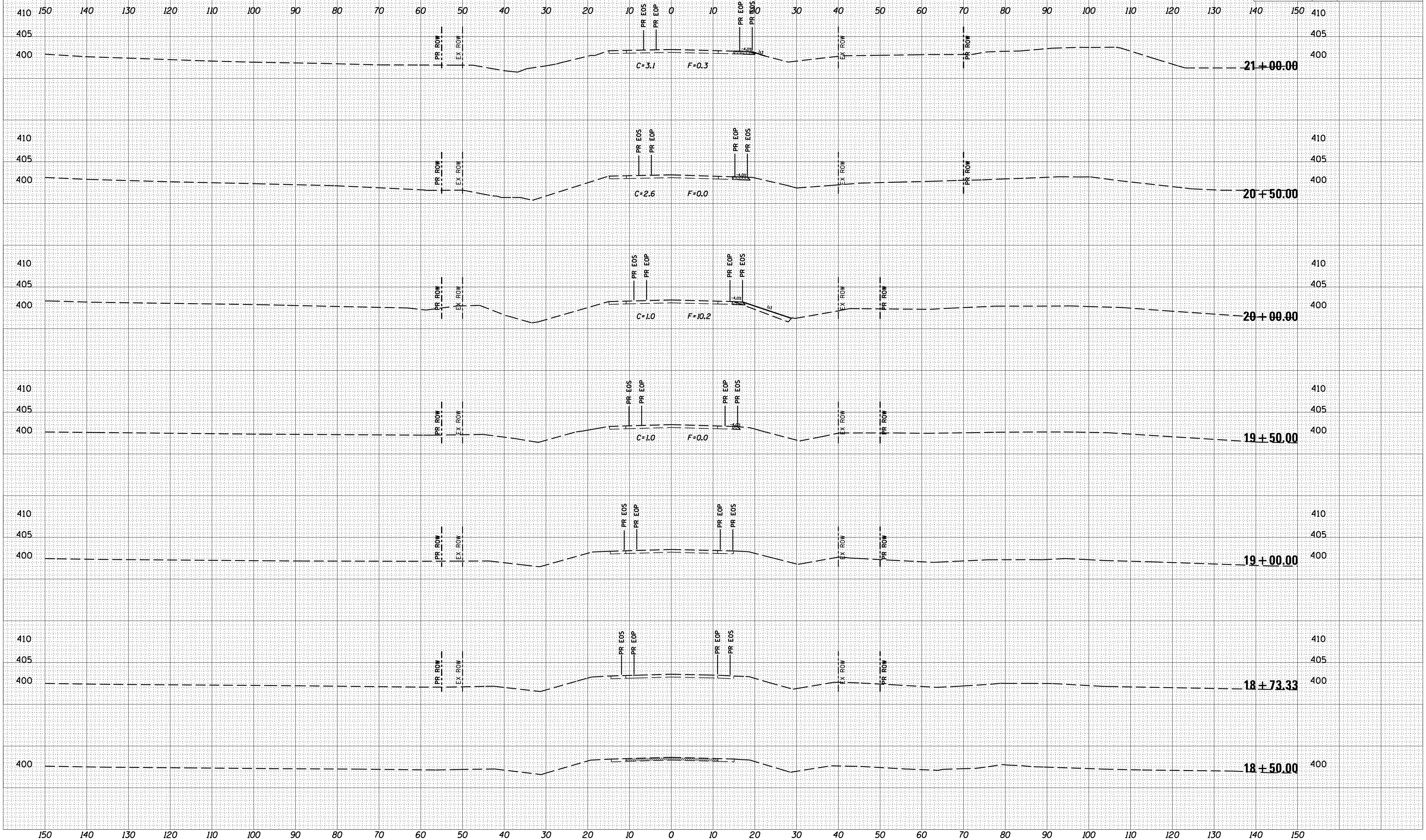
SOIL BORING LOGS
STRUCTURE NO. 100 - 0081
SHEET NO. 26 OF 26 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39B-2	WILLIAMSON	224	119
		CONTRACT NO. 78277		
		ILLINOIS FED. AID PROJECT		

• & FAS 903

CONTRACT NO. 78277

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	120
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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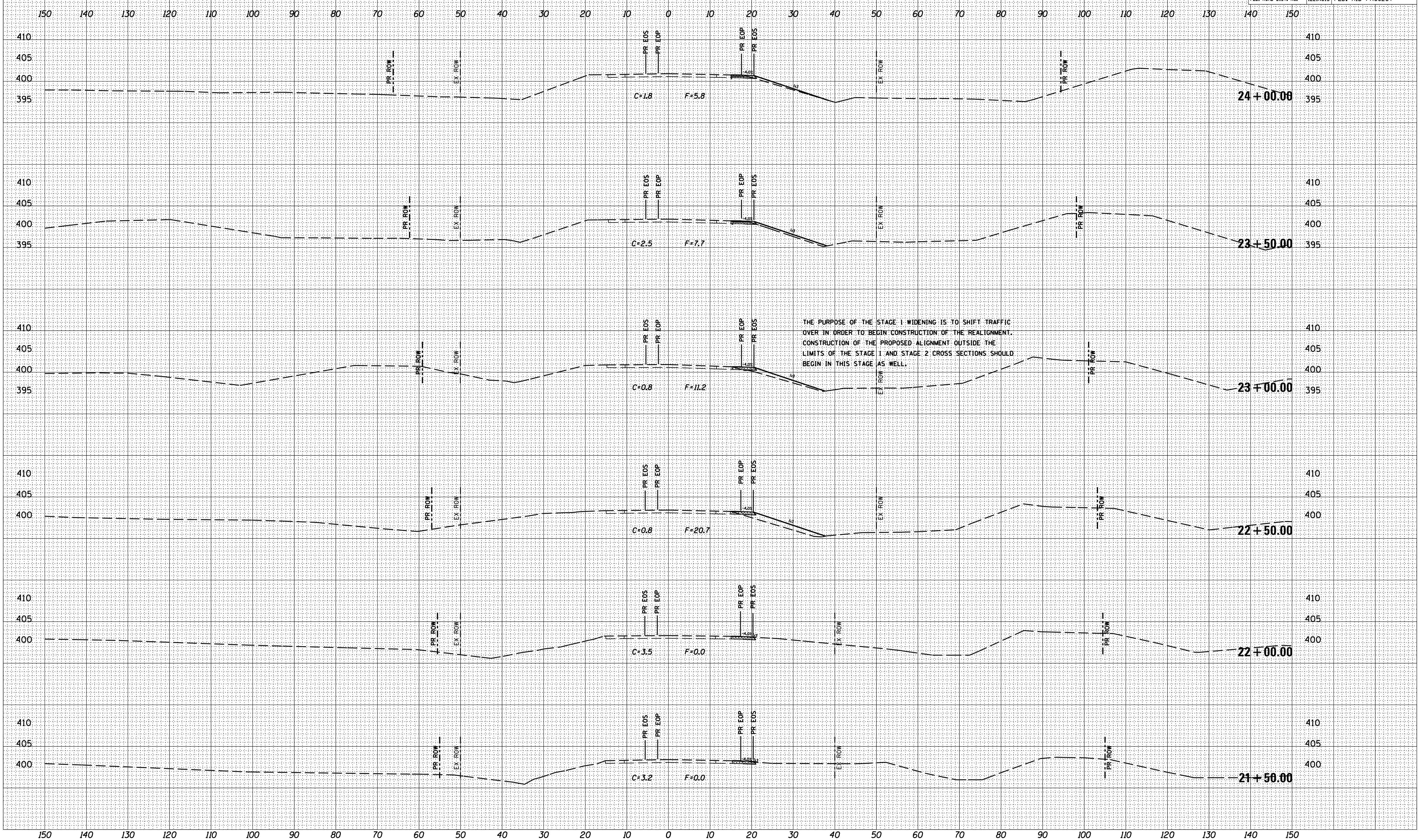
CROSS SECTIONS – STAGE 1

CONTRACT NO. 78277

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	121
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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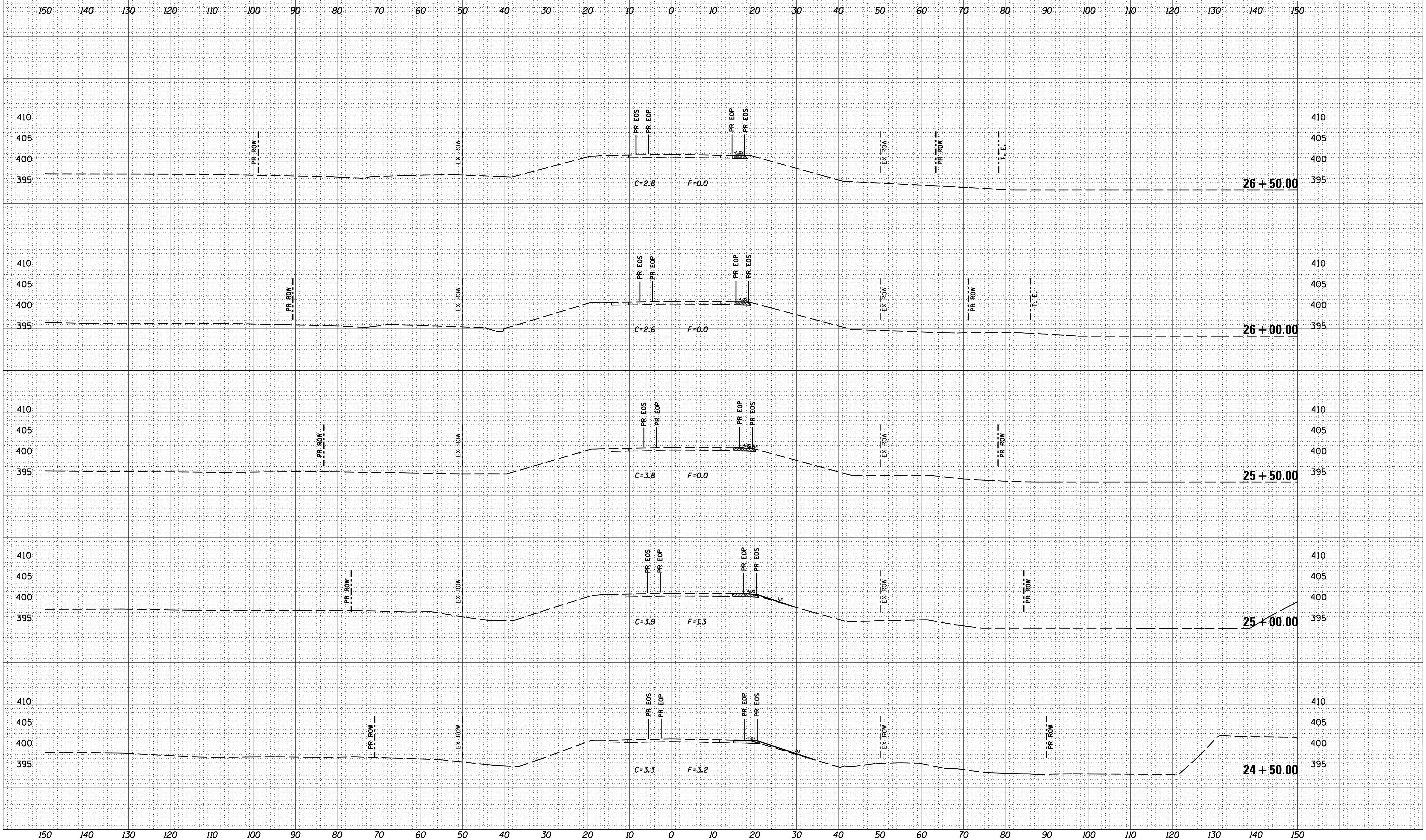
CROSS SECTIONS – STAGE 1

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	122
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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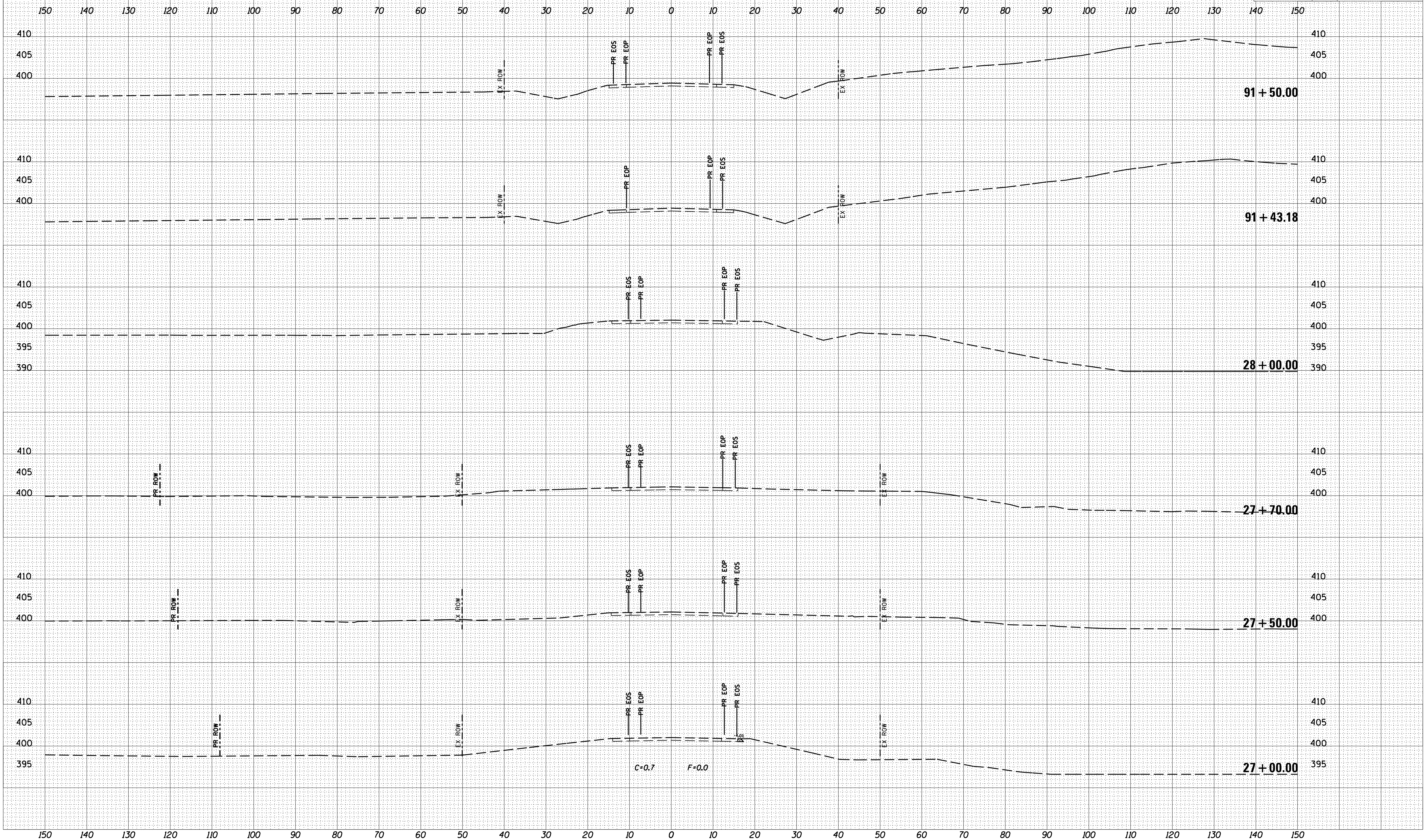
CROSS SECTIONS - STAGE 1

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	123
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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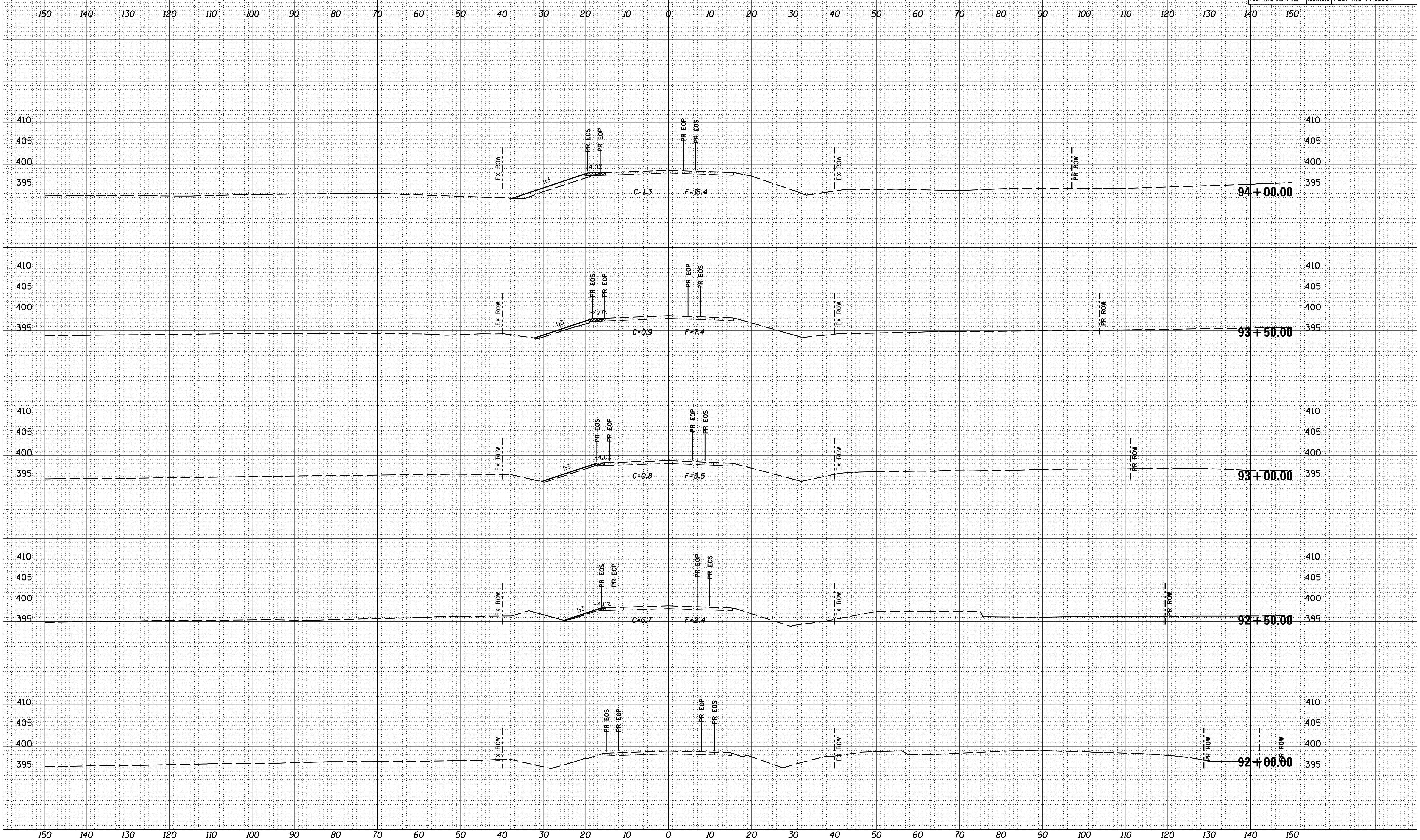
CROSS SECTIONS – STAGE 1

CONTRACT NO. 78277

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39(R-1,B-1,B-2)	WILLIAMSON	224	124
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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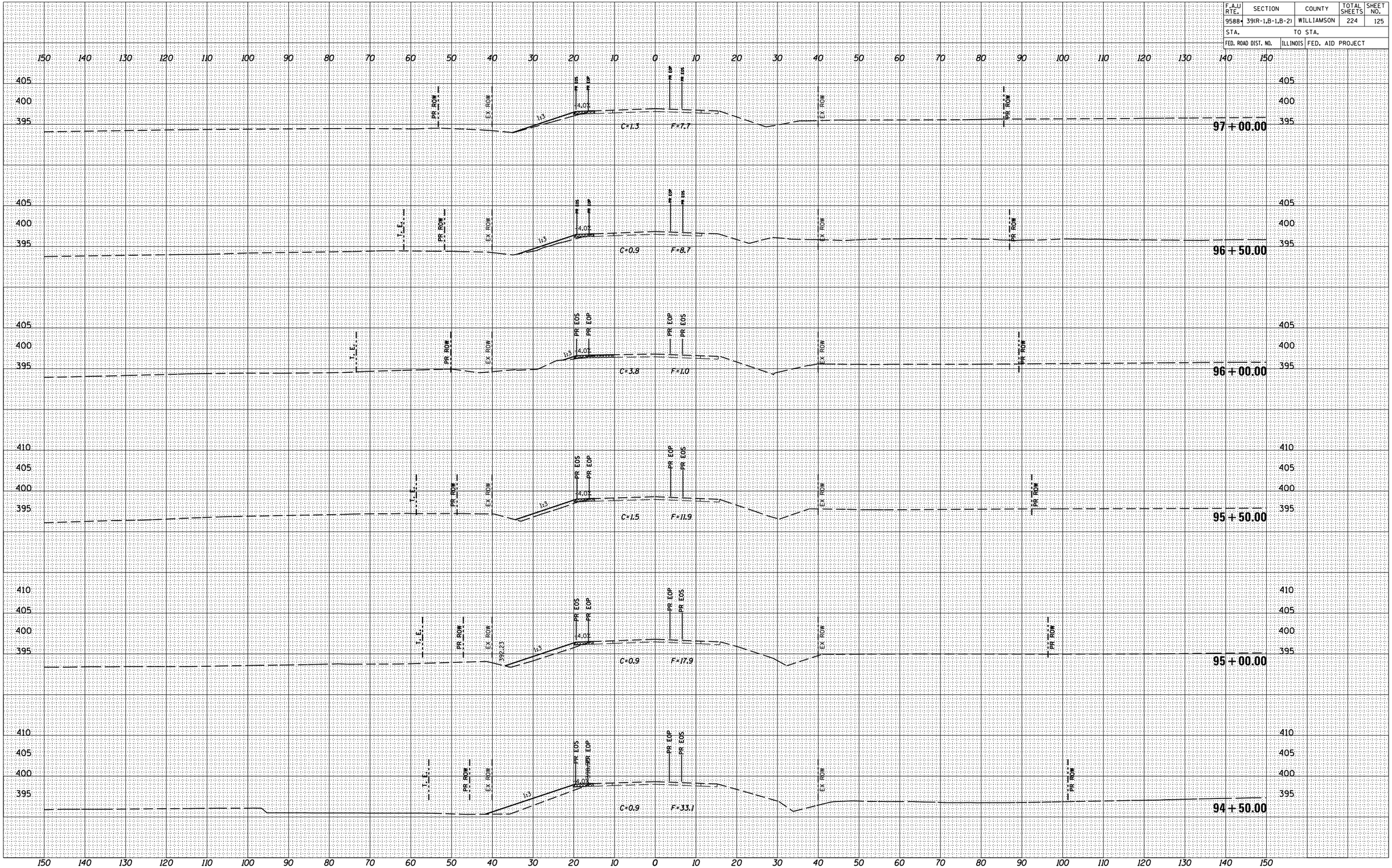
CROSS SECTIONS – STAGE 1

CONTRACT NO. 78277

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39(R-1,B-1,B-2)	WILLIAMSON	224	125
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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	PLOTTED	
	TURNED AT	
	AREAS	
	AREAS CHECKED	

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	SURVEYED	
	PLOTTED	
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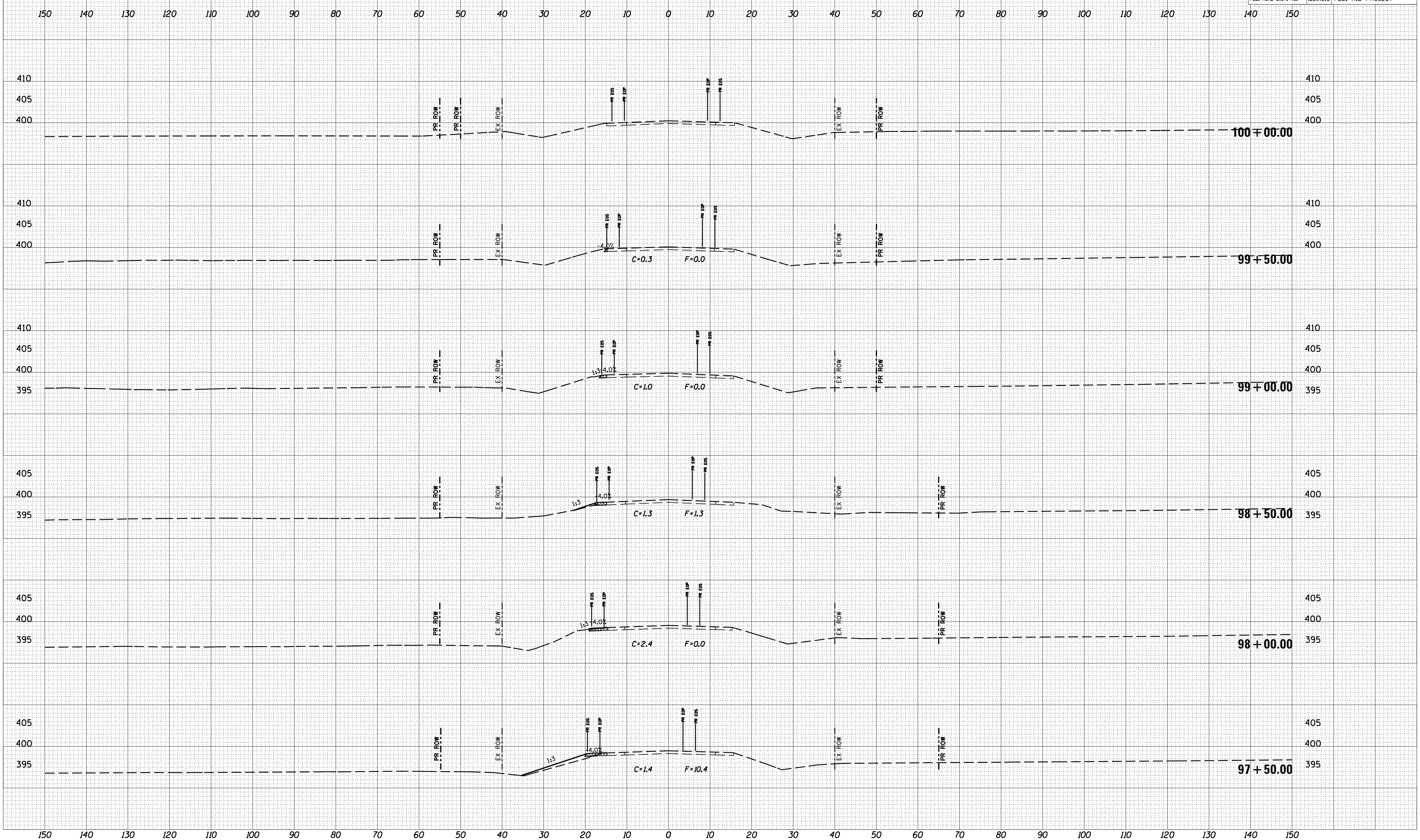
CROSS SECTIONS – STAGE 1

CONTRACT NO. 78277				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39(R-1,B-1,B-2)	WILLIAMSON	224	126
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS – STAGE 1

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39(R-1,B-1,B-2)	WILLIAMSON	224	127
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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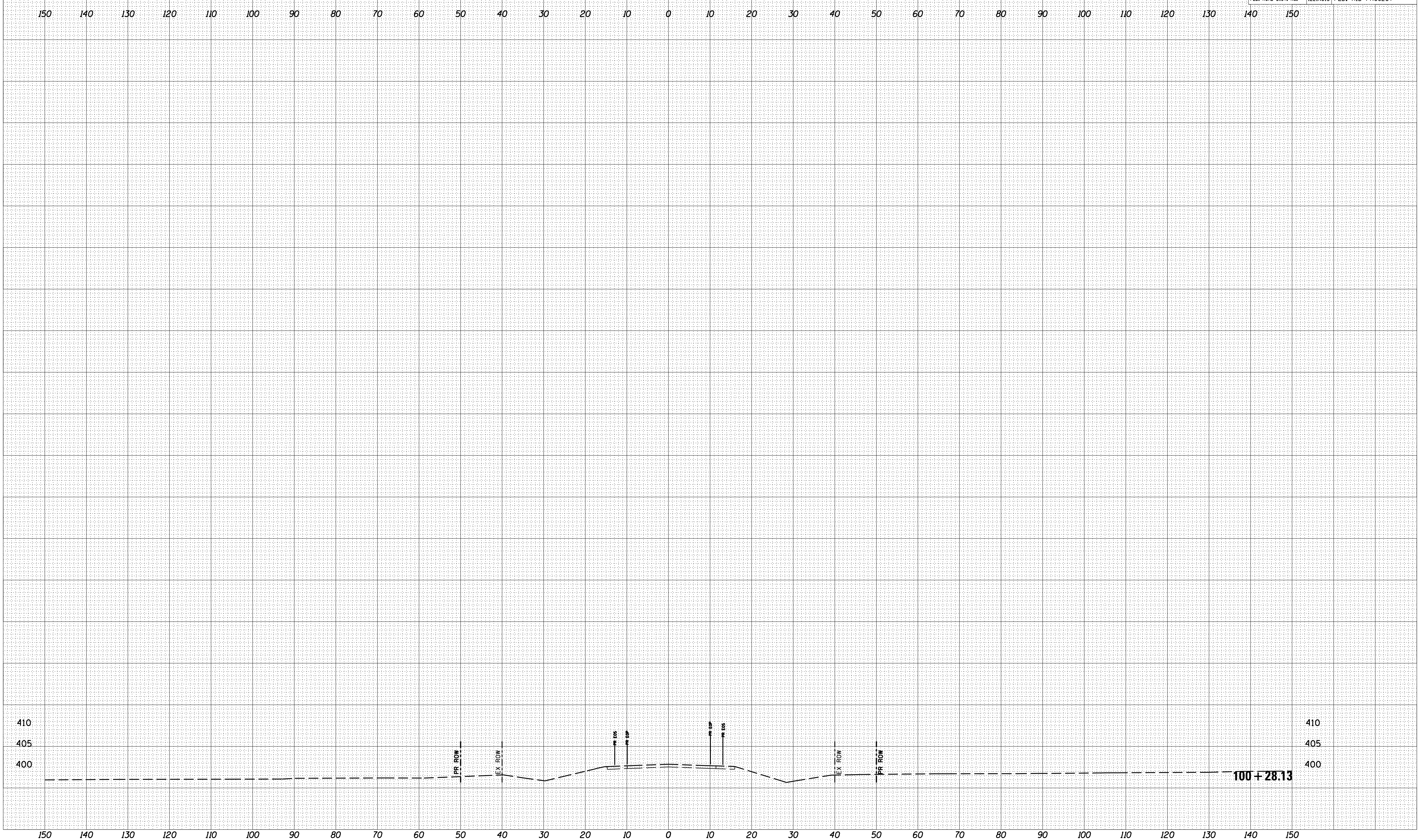

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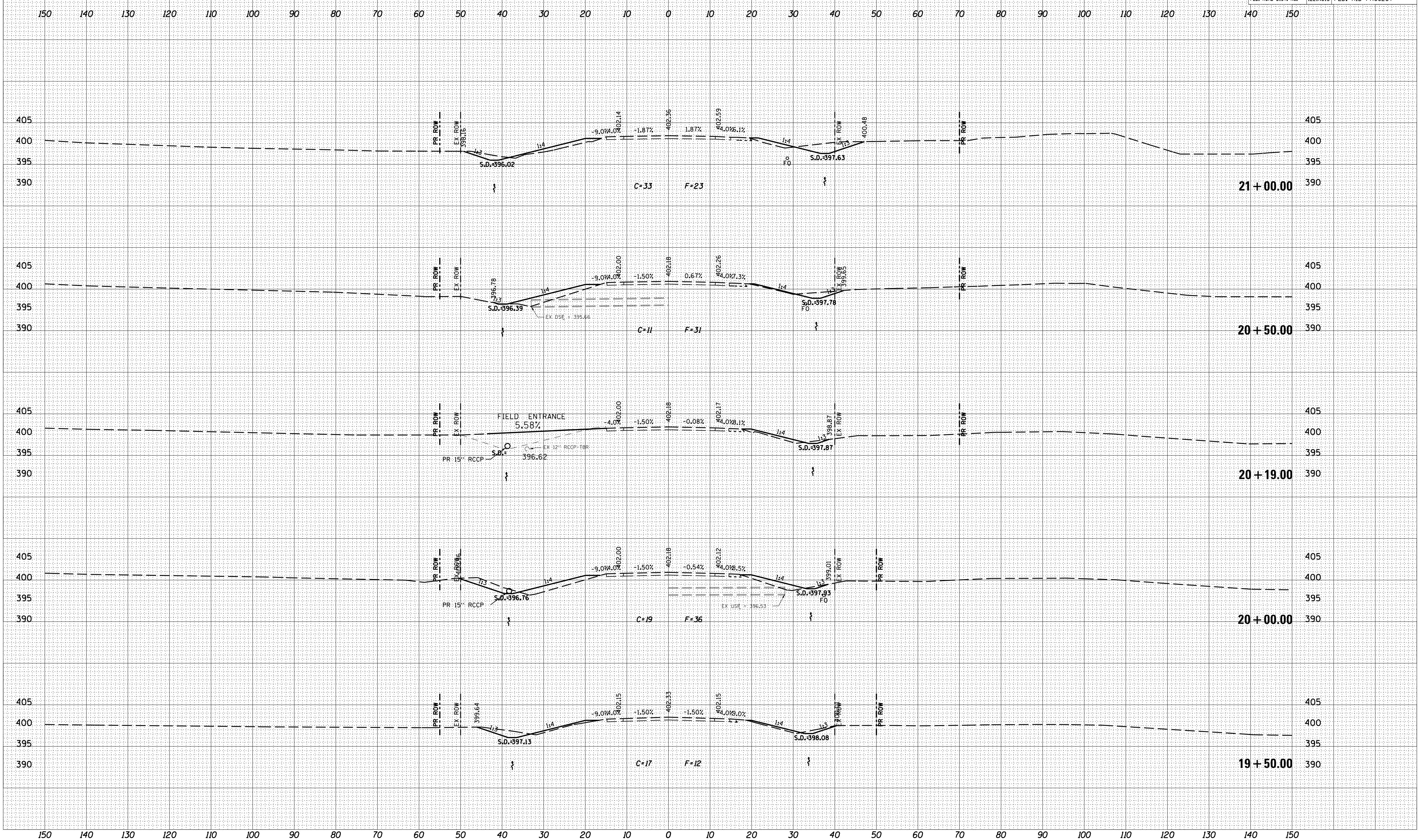
CROSS SECTIONS – STAGE 1

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39(R-1,B-1,B-2)	WILLIAMSON	224	128
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS – STAGE 2

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	129
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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MILLING REQUIRED IN ORDER TO MAINTAINE 3.75 INCH OVERLAY

22+45.70

PR ROW — EX ROW — PR ROW
S.D.=396.75
9.0%4.4% — 400.92 — 4.40% — 402.45 — 4.40% — 402.98 — 3.6%3.6%
FO
EX DSL = 395.14
PR DSL = 394.99
STONE DUMPED RIPRAP
EX ROW — PR ROW

22+00.00

PR ROW — EX ROW — PR ROW
S.D.=396.03
396.27
9.0%4.3% — 401.98 — 4.29% — 402.49 — 4.29% — 403.01 — 3.7%3.7%
EX USL = 395.44
FO
S.D.=396.17
396.95
EX ROW — PR ROW

PR 24" CL A, TY 2
LT 32.1', USFL = 395.59, STATION 21+81
RT 37.6', DSFL = 394.99, STATION 22+43

EX 30" CMP — TBR

21+71.80

PR ROW — EX ROW — PR ROW
S.D.=396.91
9.0%4.0% — 402.06 — 3.60% — 402.49 — 3.60% — 402.92 — 4.0%4.4%
400.39
FO
EX USL = 395.44
PR USL = 395.59
STONE DUMPED RIPRAP
EX ROW — PR ROW

21+50.00

PR ROW — EX ROW — PR ROW
S.D.=395.65
9.0%4.0% — 3.06% — 3.06% — 402.83 — 4.0%4.9%
401.15
FO
PR 15" CMP
S.D.=397.47
EX ROW — PR ROW
C=12 F=19

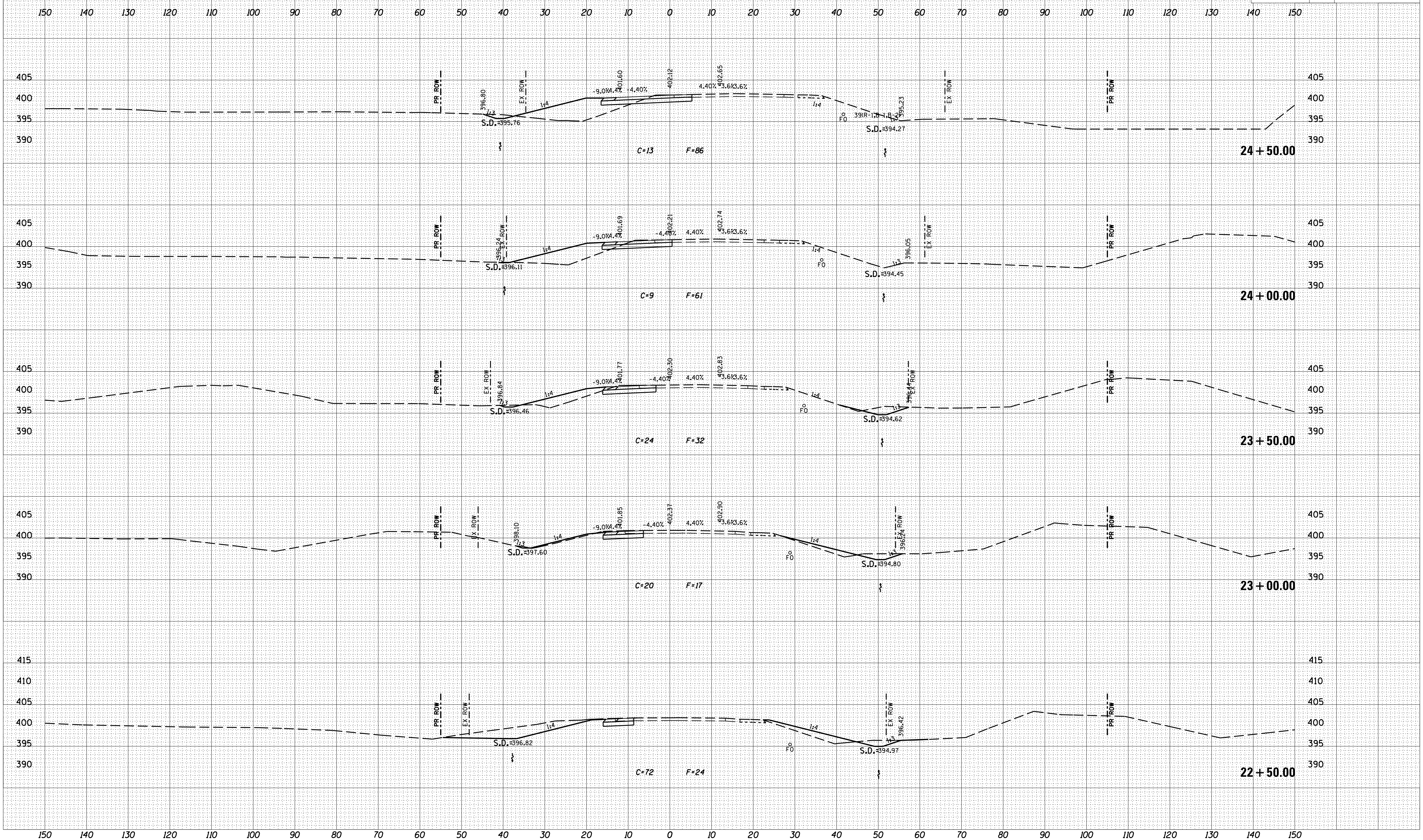
21+34.00

PR ROW — EX ROW — PR ROW
S.D.=395.77
9.0%4.0% — 402.12 — 2.68% — 402.44 — 2.68% — 402.76 — 4.0%
PRIVATE AGGREGATE ENTRANCE
6.61%
PR 15" CMP
EX ROW — PR ROW
C=11 F=10

CROSS SECTIONS – STAGE 2

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588	39(R-1,B-1,B-2)	WILLIAMSON	224	130
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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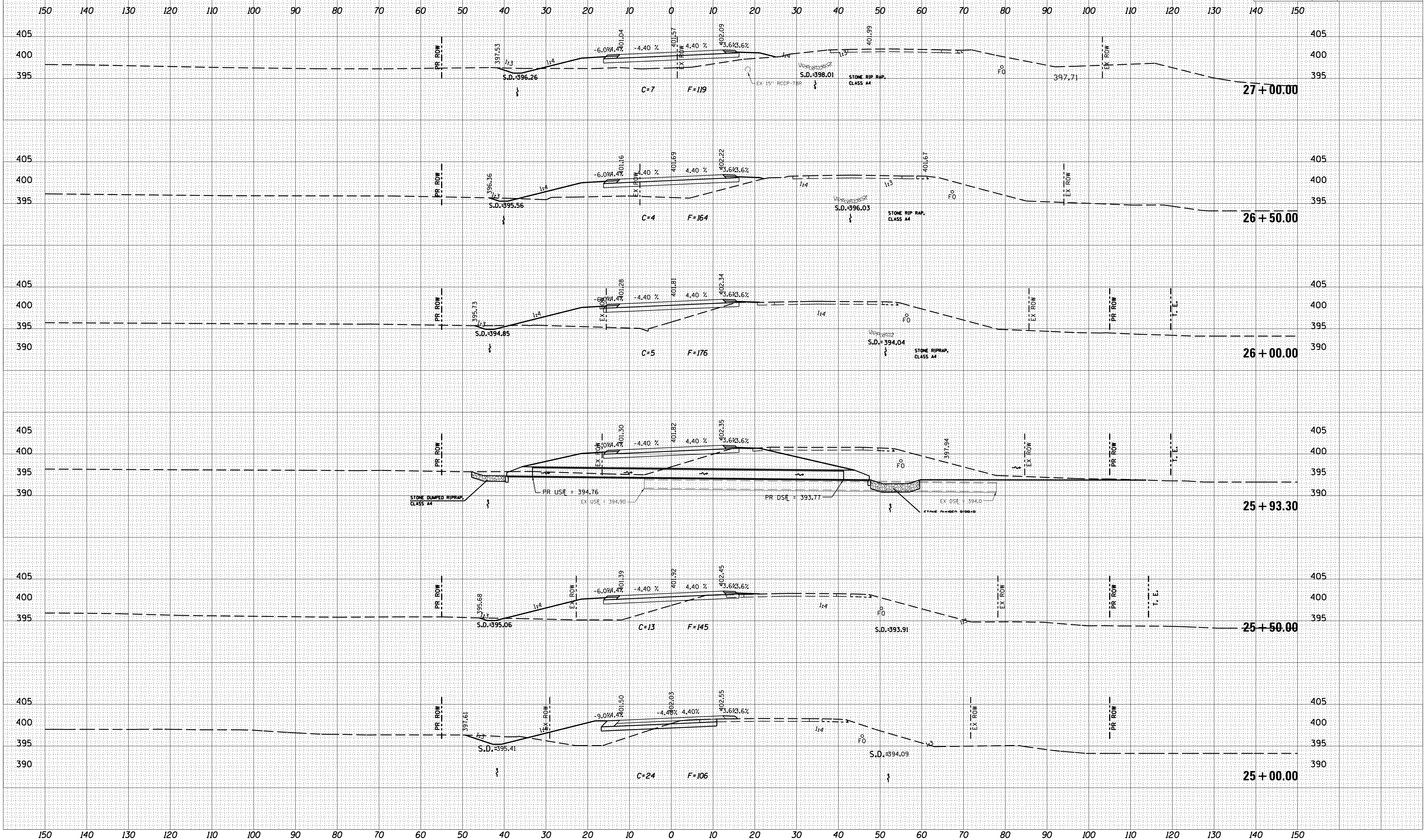
CROSS SECTIONS - STAGE 2

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	131
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	
NOTE BOOK	SURVEYED
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	TEMPLATE
	AREAS
	AREAS CHECKED

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

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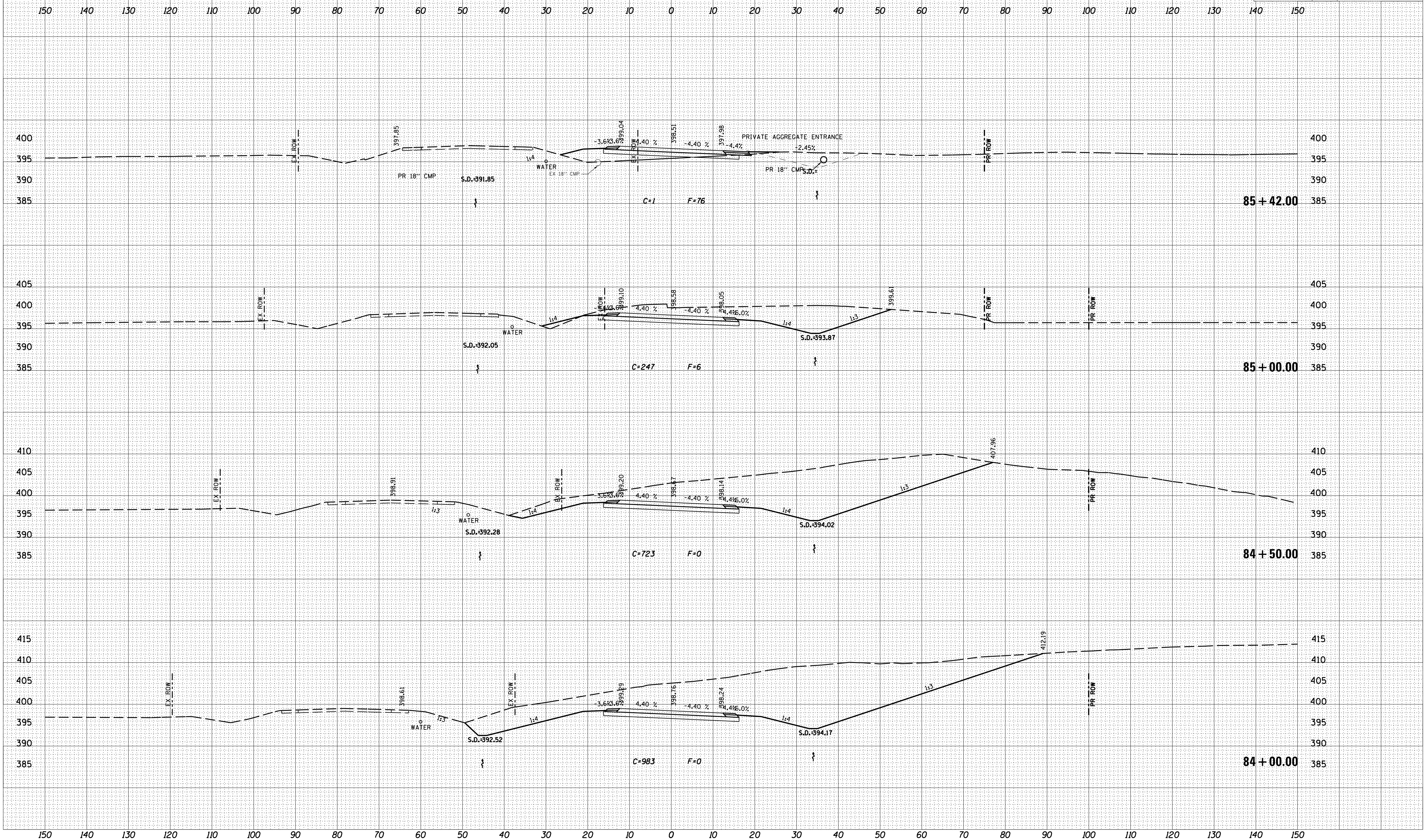
CROSS SECTIONS – STAGE 2

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	132
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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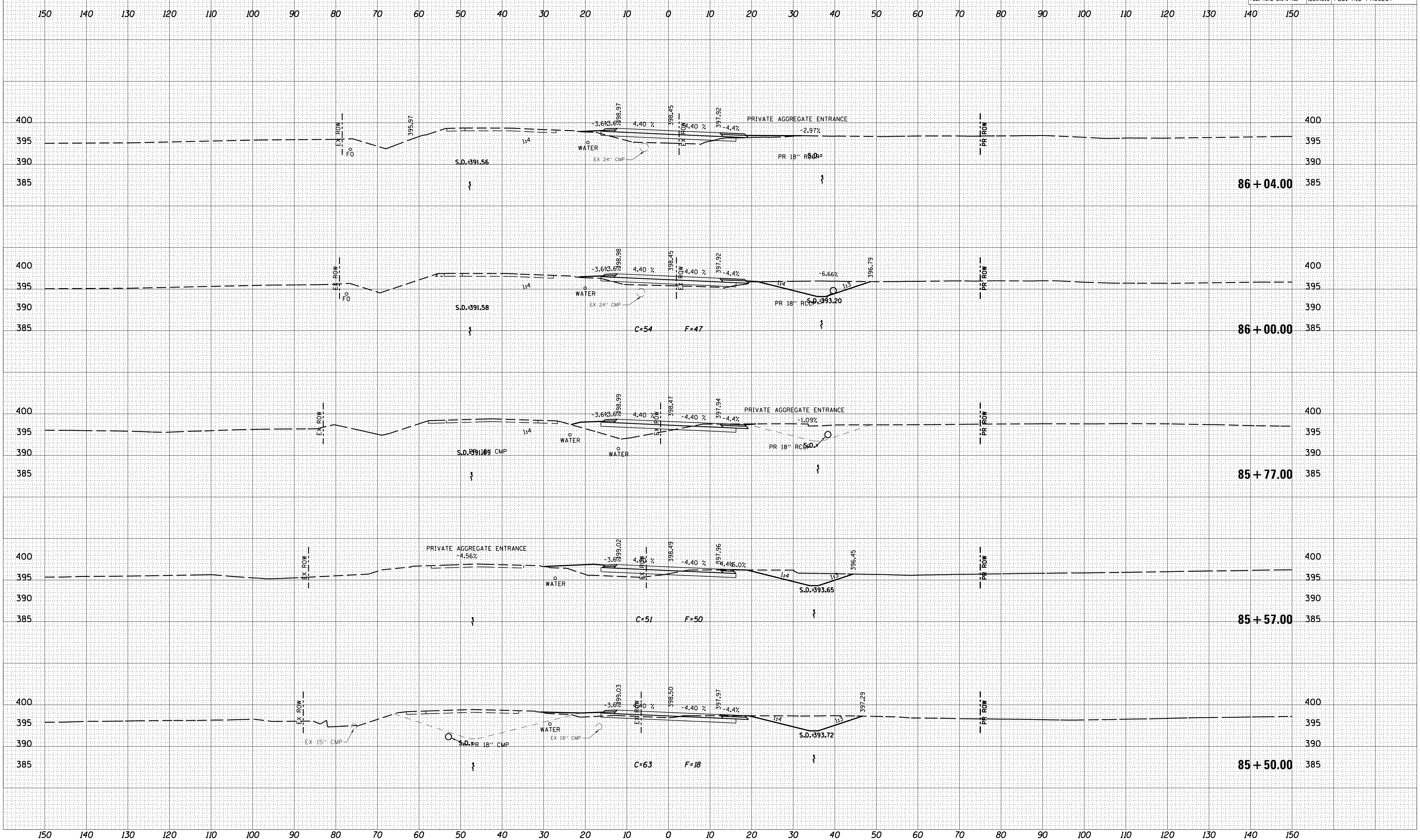
CROSS SECTIONS – STAGE 2

CONTRACT NO. 78277

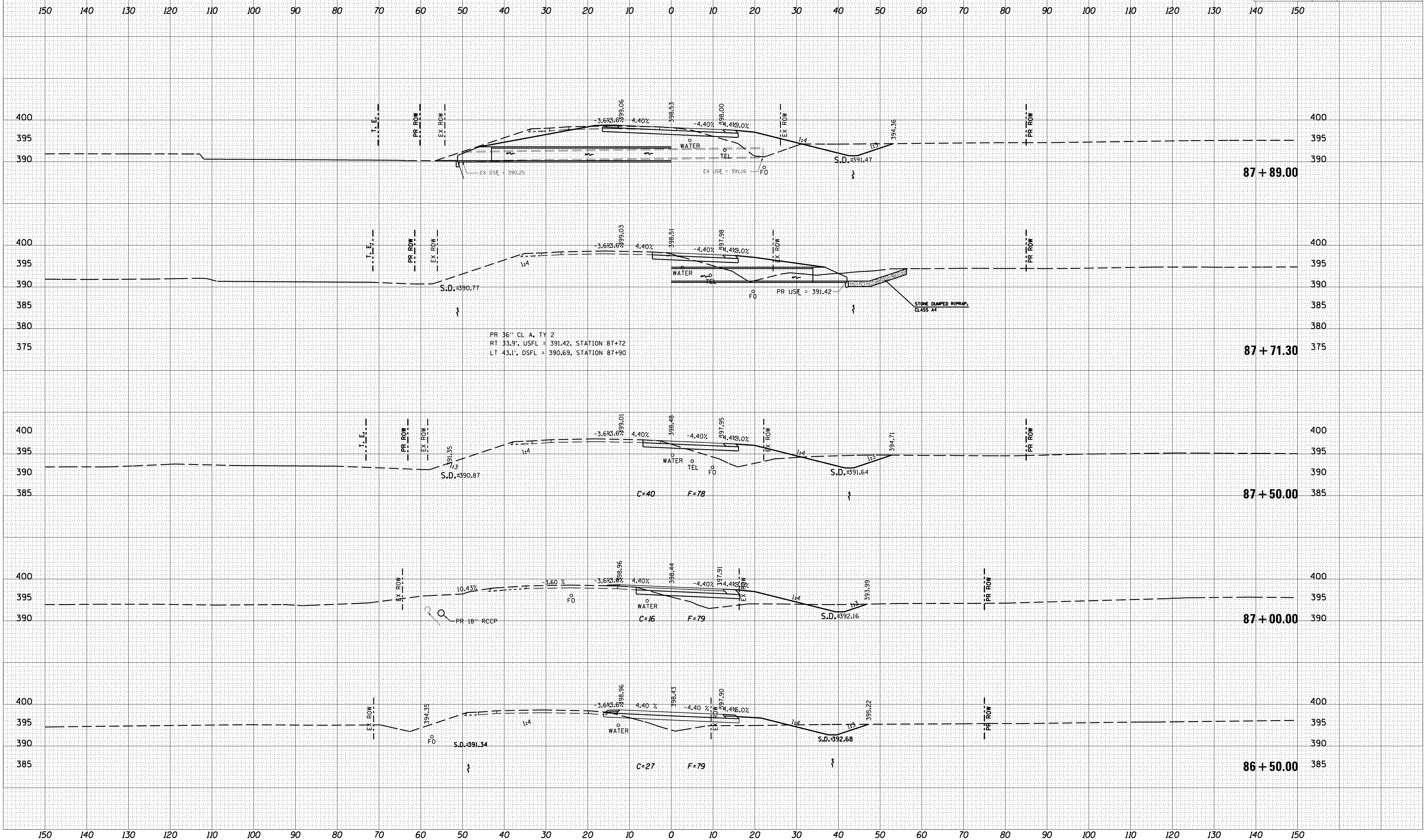
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588-	39(R-1,B-1,B-2)	WILLIAMSON	224	133
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CROSS SECTIONS – STAGE 2

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	134
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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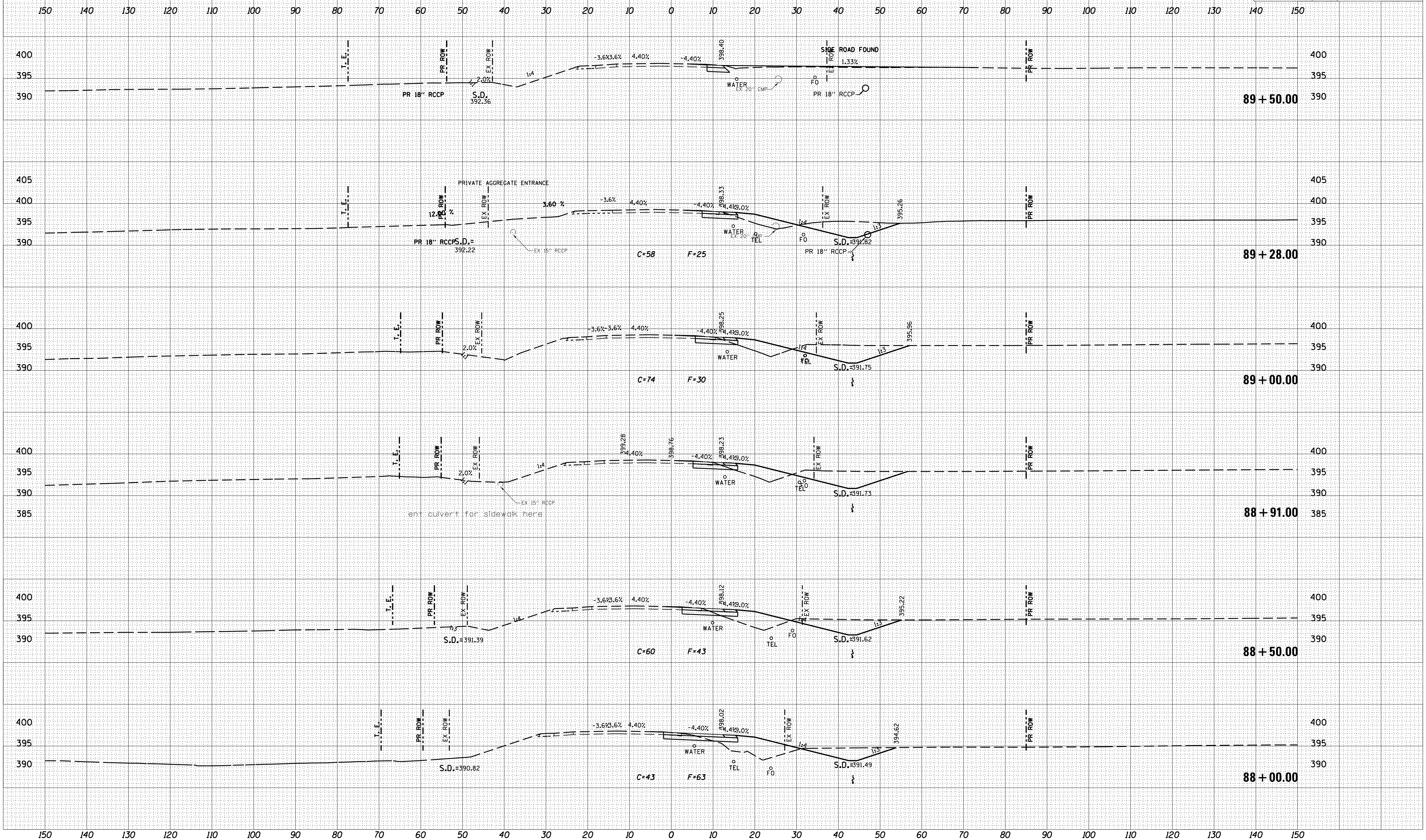
CROSS SECTIONS – STAGE 2

CONTRACT NO. 78277

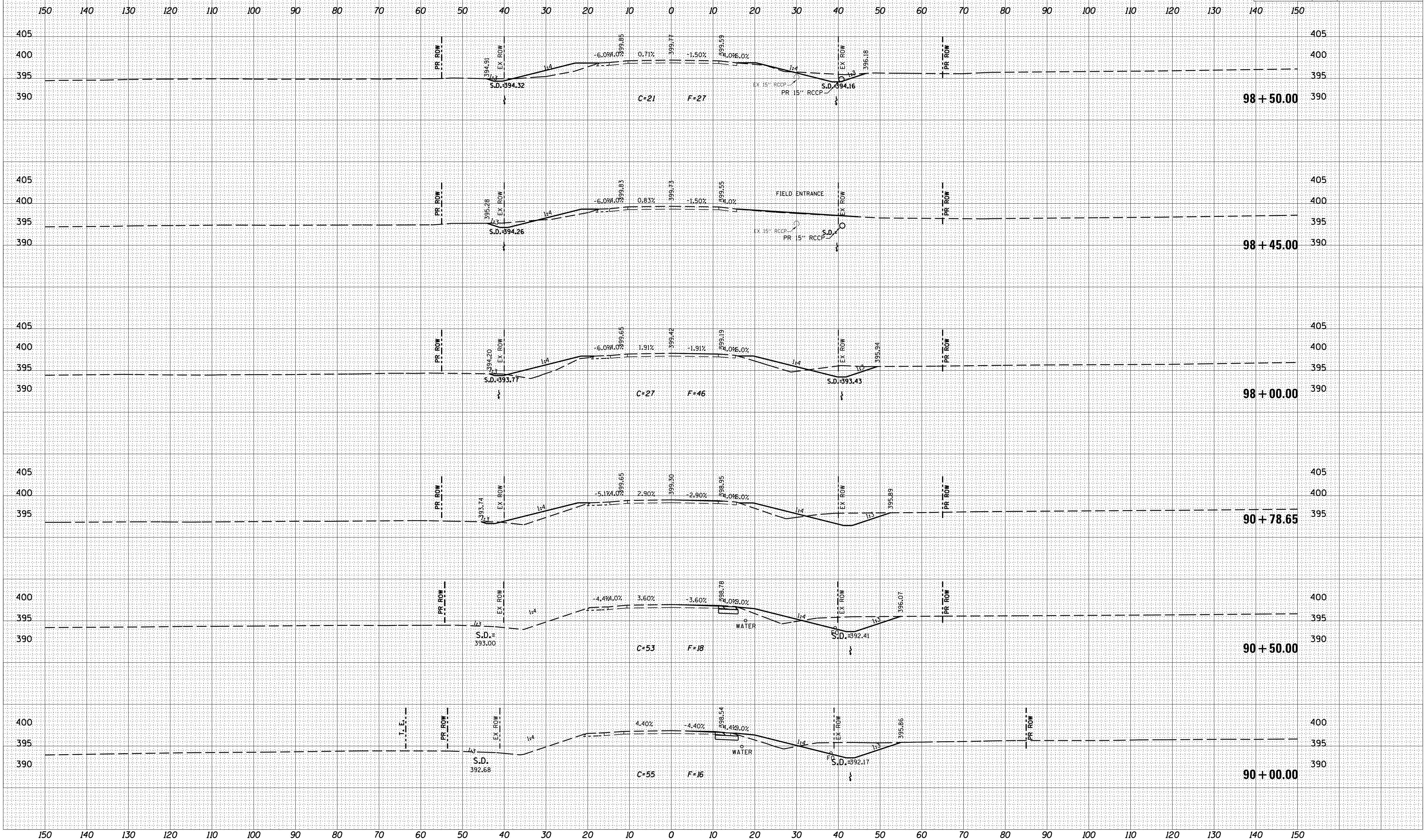
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	135
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CROSS SECTIONS - STAGE 2

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	136
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS - STAGE 2

CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	137
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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SURVEYED			
PLOTTED			
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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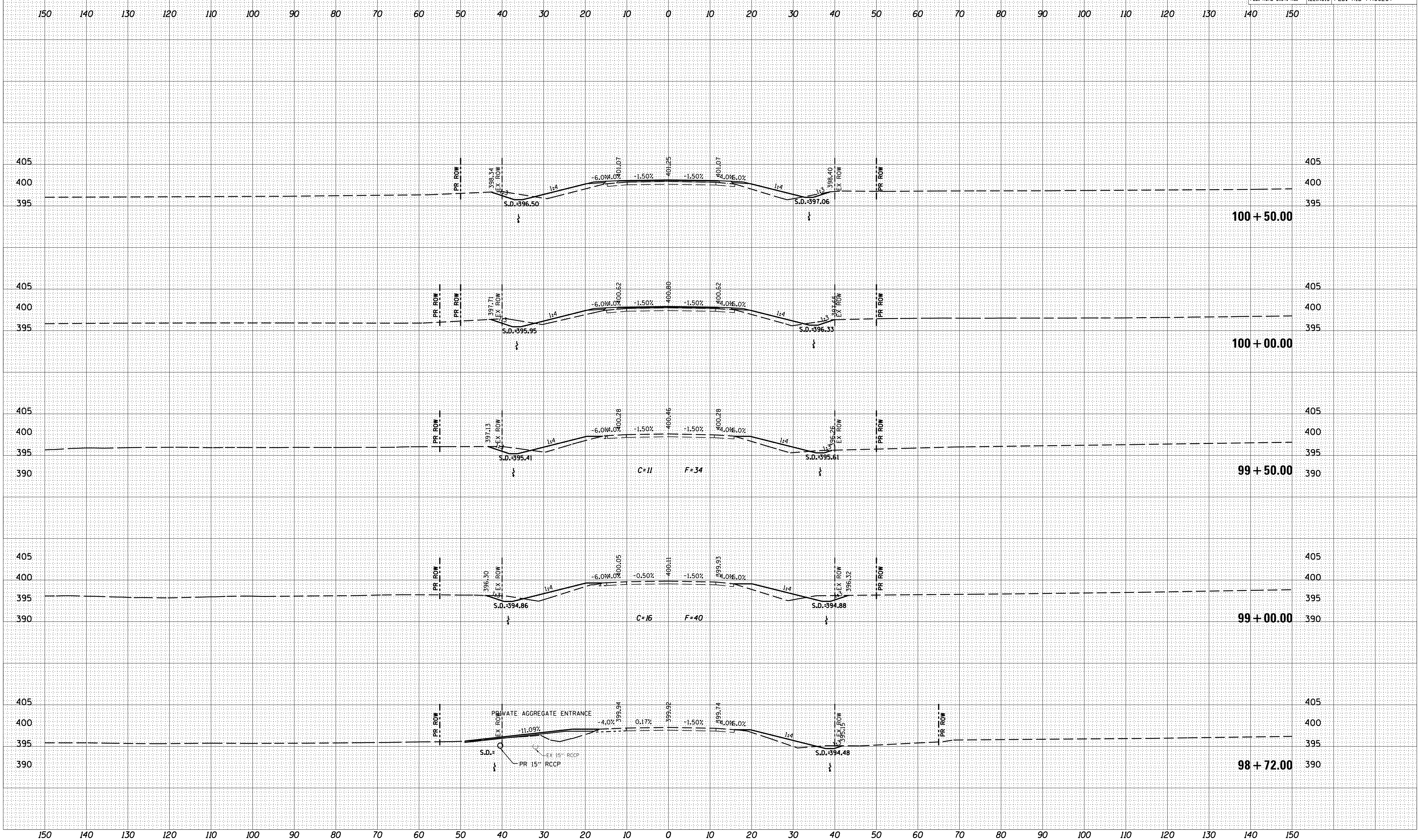
PLOTTED			
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



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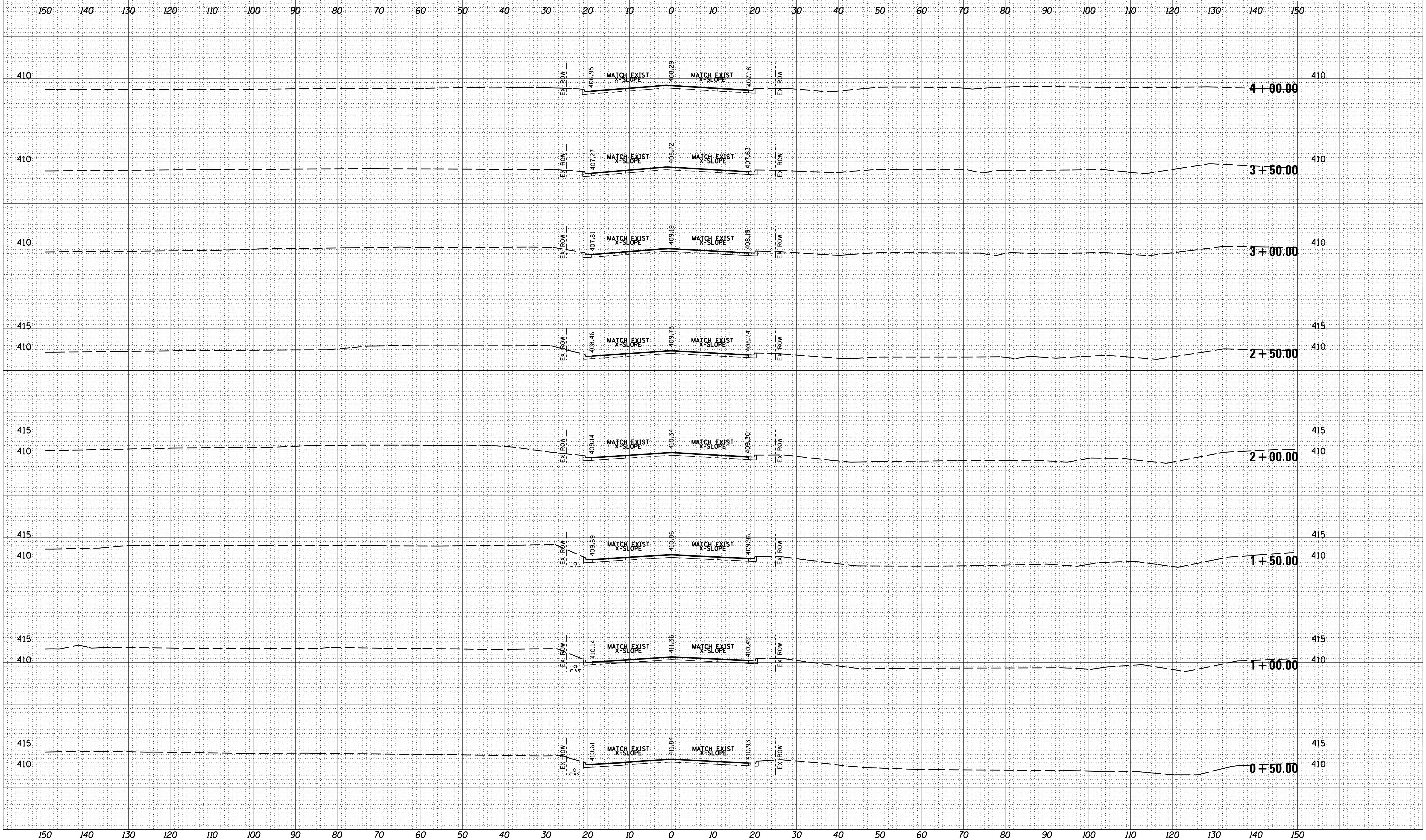
CROSS SECTIONS – STAGE 2

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	138
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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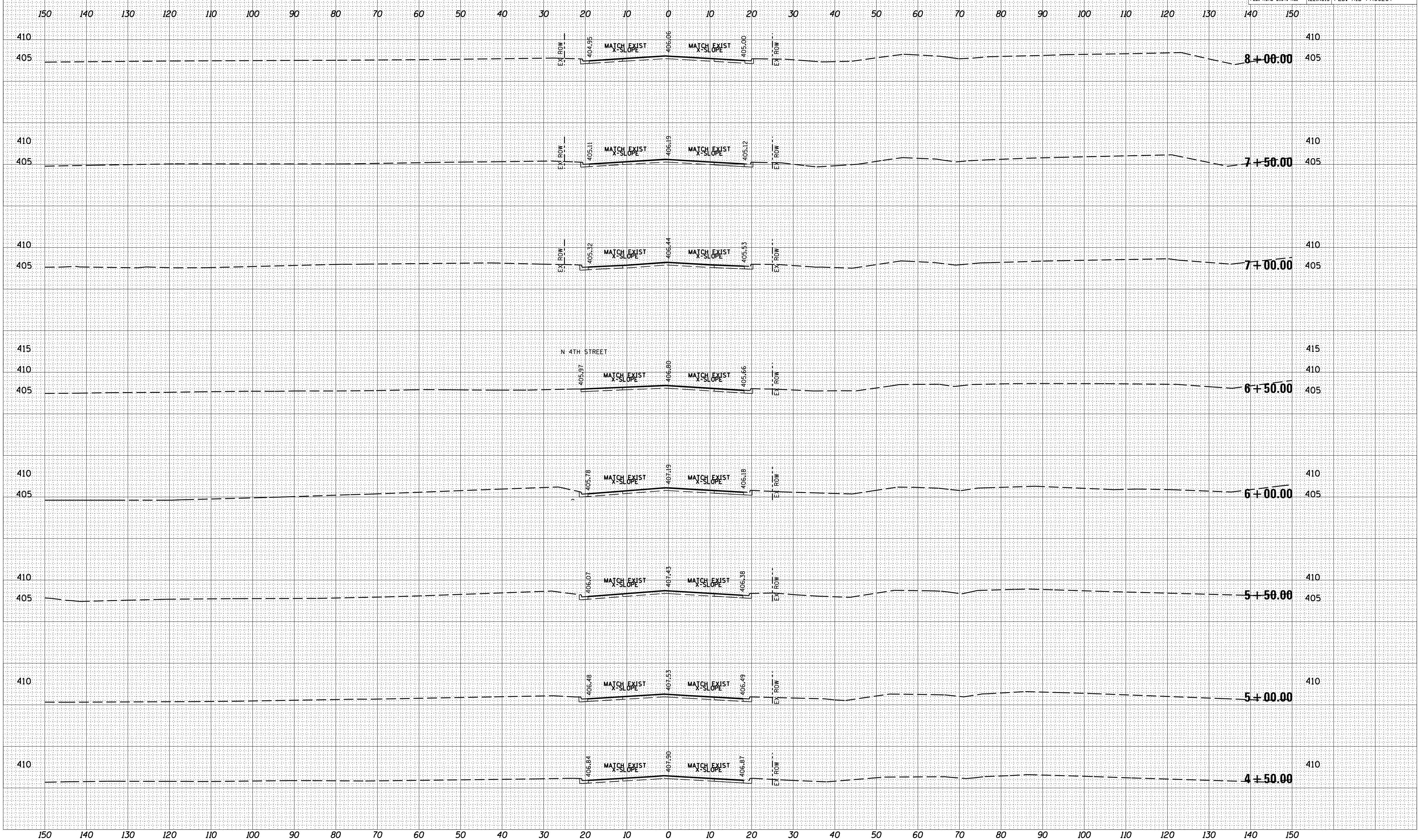
CROSS SECTIONS – FINAL

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	139
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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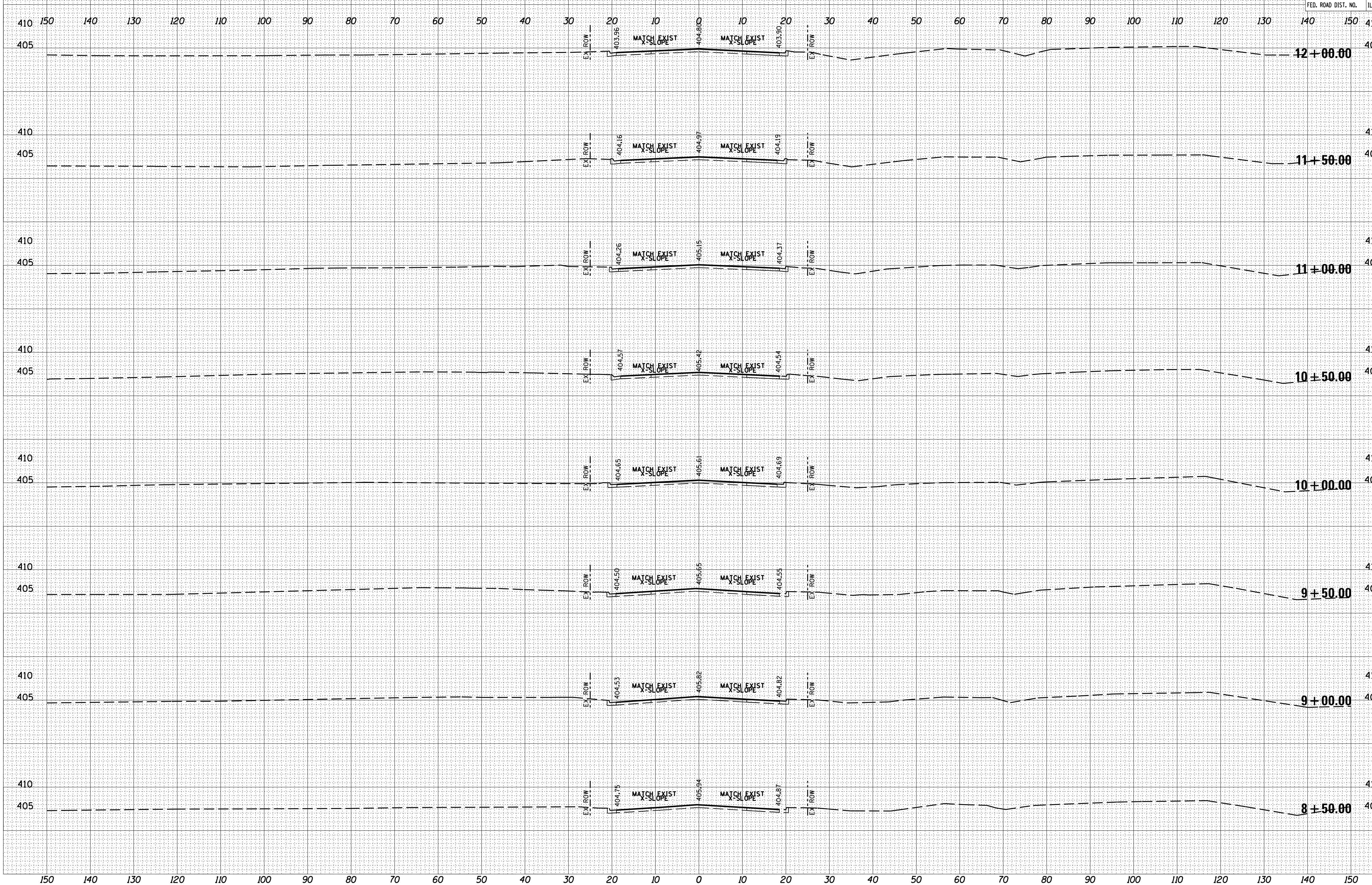
CROSS SECTIONS – FINAL

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	140
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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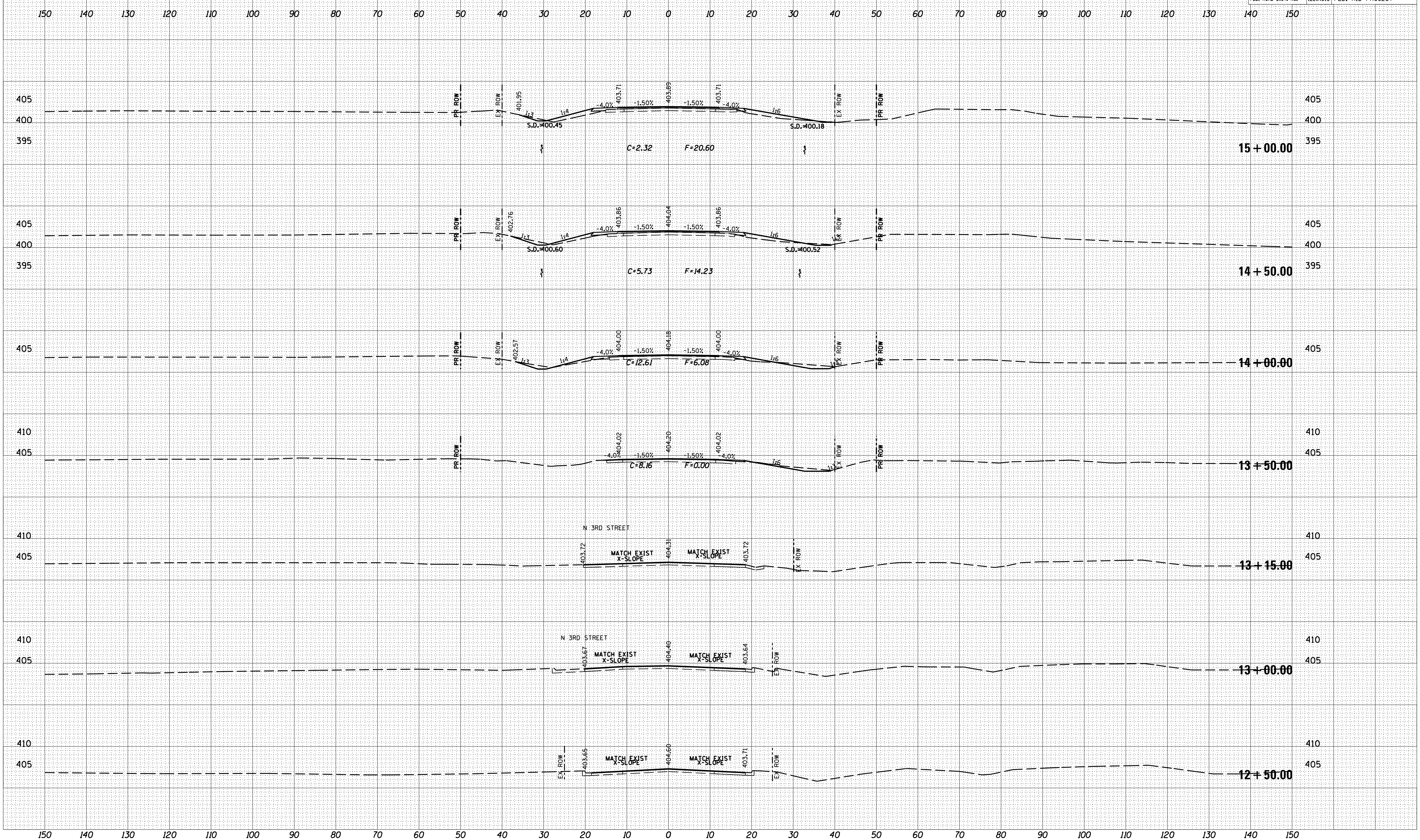
CROSS SECTIONS – FINAL

• & FAS 903 CONTRACT NO. 78277

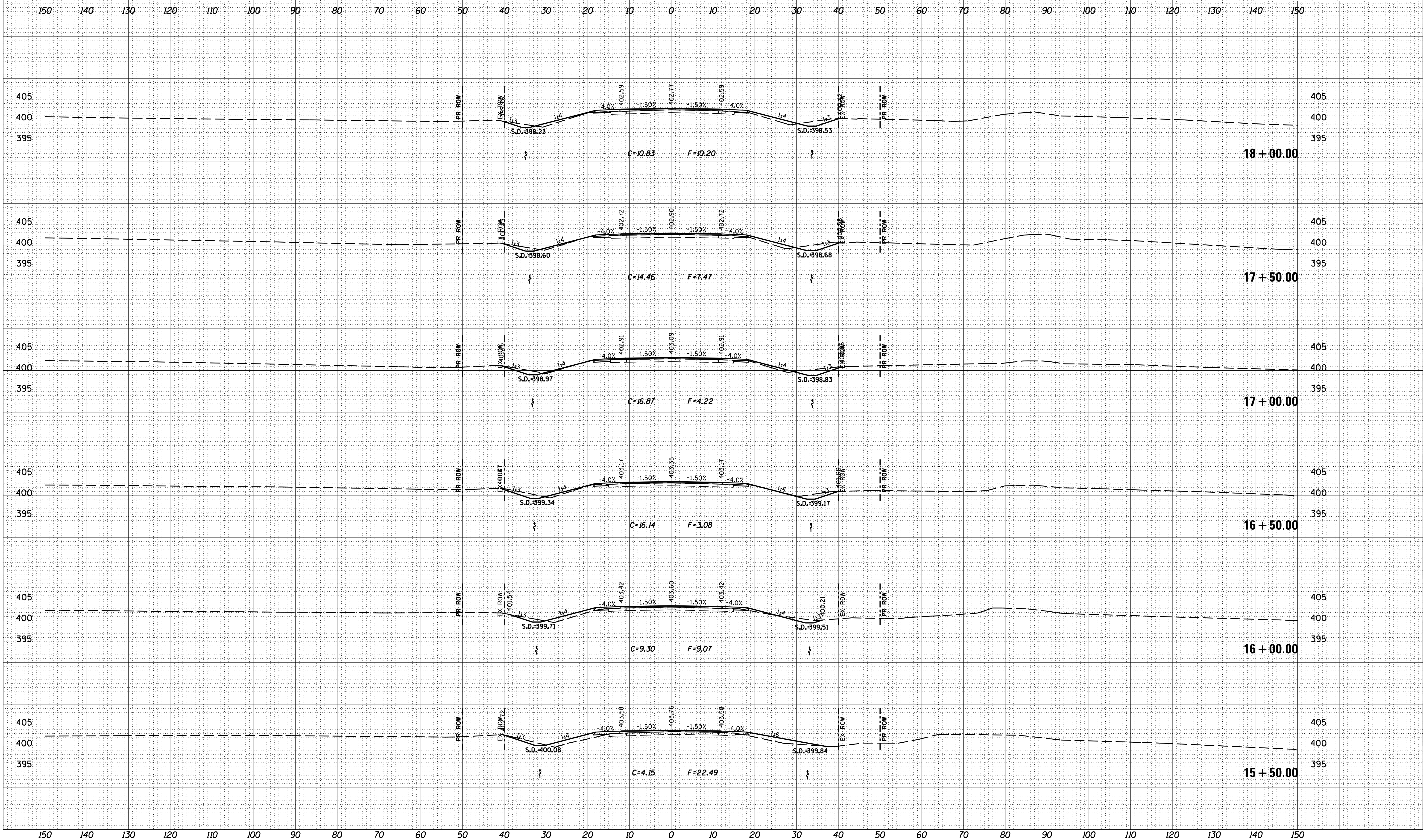
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	141
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CROSS SECTIONS – FINAL

* & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	142
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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CROSS SECTIONS – FINAL

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	143
STA.	TO STA.			
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

405 400 395 390

PR ROW — EX ROW — PR ROW

FIELD ENTRANCE 5.58%

-4.0% 402.00 -1.50% 402.18 -0.08% 402.17 -4.0%

EX 12" RCCP-TBR

PR 15" RCCP 396.62

S.D.-397.87 398.87

EARTHWORK CALCULATED IN STAGE 2

20 + 19.00

PR ROW — EX ROW — PR ROW

-4.0% 402.00 -1.50% 402.18 -0.54% 402.12 -4.0%

S.D.-396.76 S.D.-397.93 399.01

PR 15" RCCP

EX USR = 396.53

EARTHWORK CALCULATED IN STAGE 2

20 + 00.00

PR ROW — EX ROW — PR ROW

399.64

-4.0% 402.15 -1.50% 402.33 -1.50% 402.15 -4.0%

S.D.-397.13 S.D.-398.08

EARTHWORK CALCULATED IN STAGE 2

19 + 50.00

PR ROW — EX ROW — PR ROW

399.21

-4.0% 402.24 -1.50% 402.42 -1.50% 402.24 -4.0%

S.D.-397.50 S.D.-398.23

C=11.85 F=6.71

19 + 00.00

PR ROW — EX ROW — PR ROW

399.36

-4.0% 402.42 -1.50% 402.60 -1.50% 402.42 -4.0%

S.D.-397.87 S.D.-398.38

C=12.27 F=9.57

18 + 50.00

	BY	DATE
FINAL SURVEY	SURVEYED	
	PLOTTED	
NOTE BOOK	TYPING & CK	
	AREAS	
NO.	AREAS CHECKED	

	BY	DATE
ORIGINAL SURVEY	SURVEYED	
	PLOTTED	
NOTE BOOK	TYPING & CK	
	AREAS	
NO.	AREAS CHECKED	

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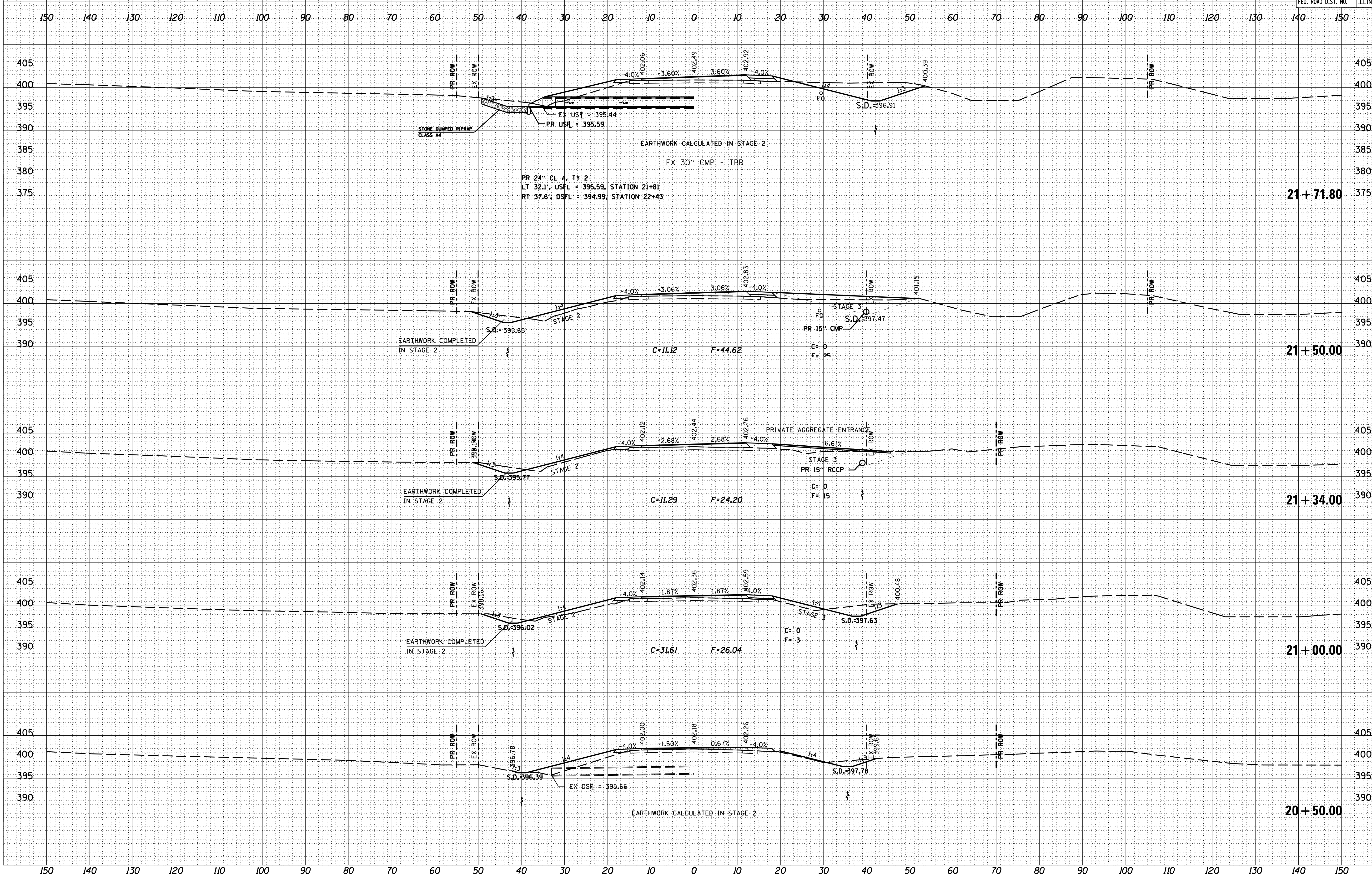
CROSS SECTIONS – FINAL

* & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	144
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY	NO.
SURVEYED	PLOTTED
AREAS	AREAS CHECKED

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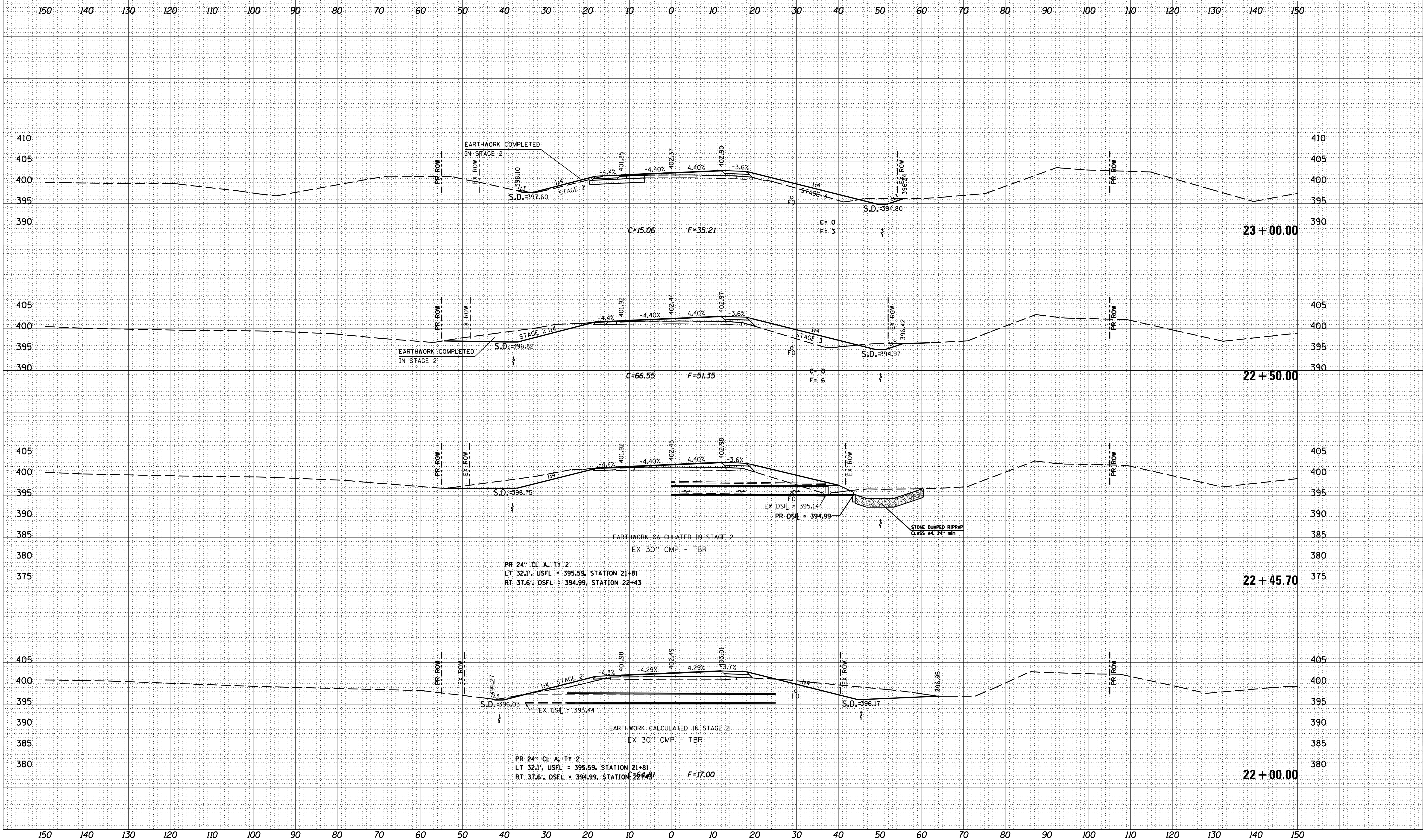
CROSS SECTIONS - FINAL

• & FAS 903		CONTRACT NO. 78277		
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	145
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY | NO. | SURVEYED | PLOTTED | AREAS | AREAS CHECKED | BY | DATE

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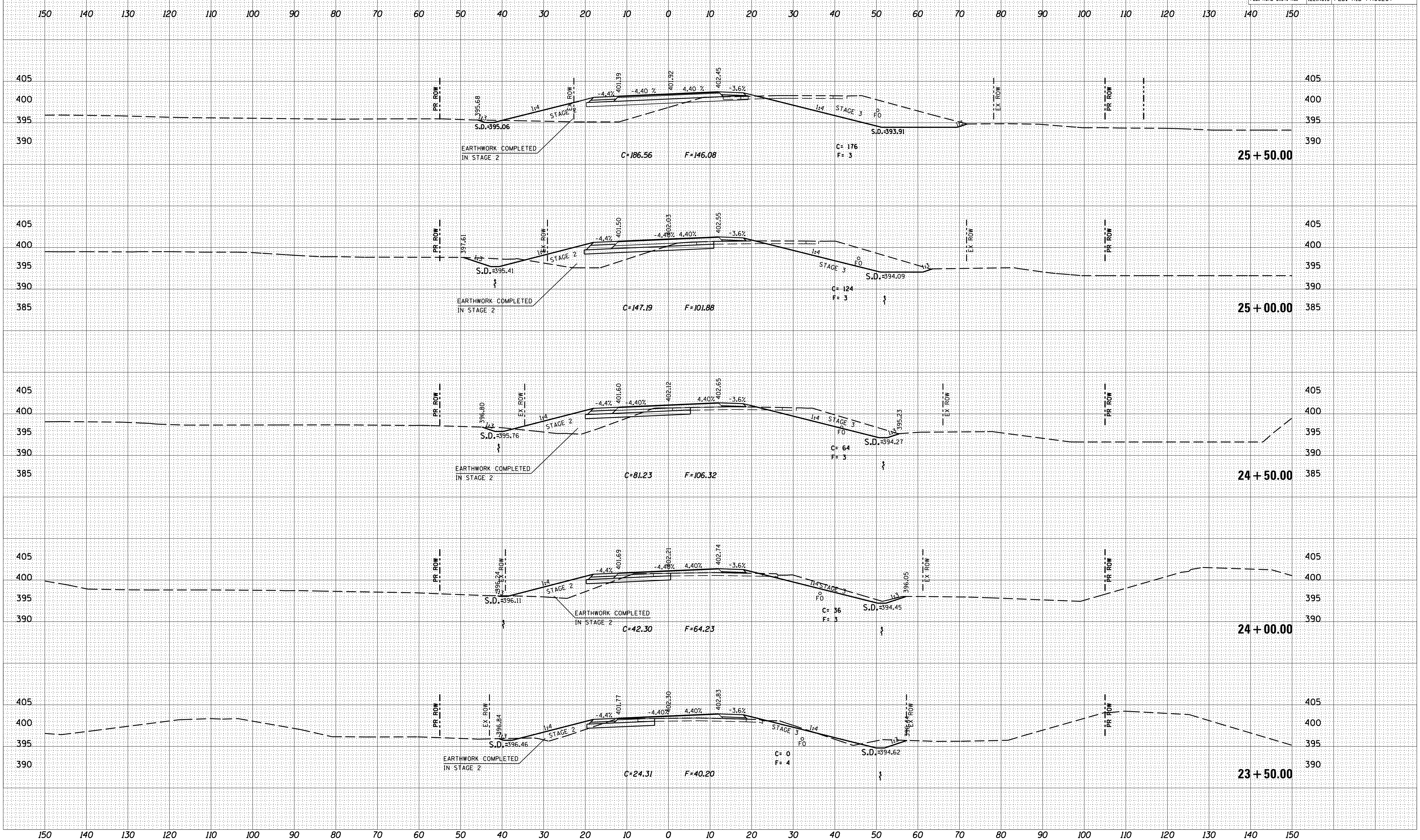
CROSS SECTIONS – FINAL

• & FAS 903 — CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	146

STA. TO STA.

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



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

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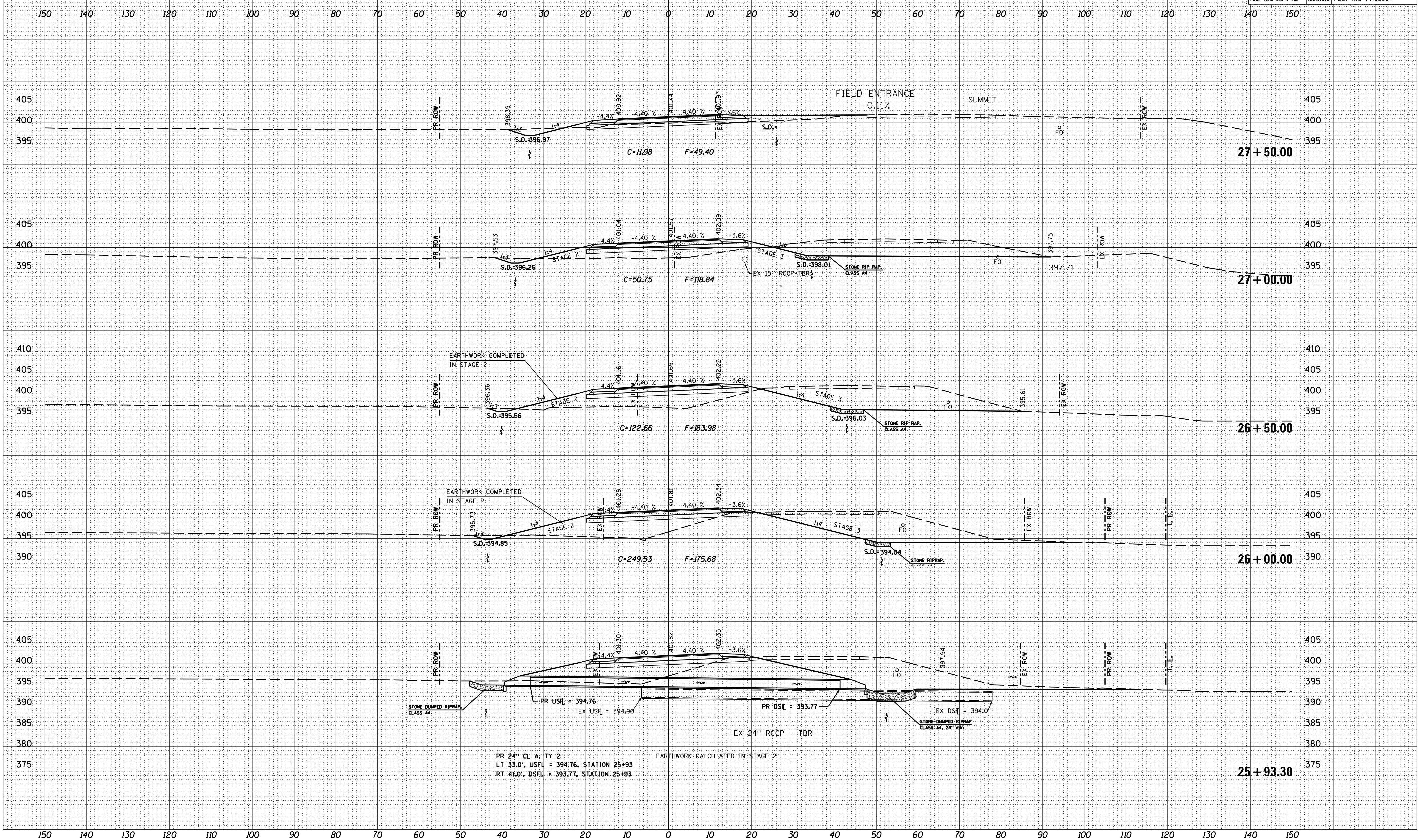
CROSS SECTIONS – FINAL

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	147
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS – FINAL

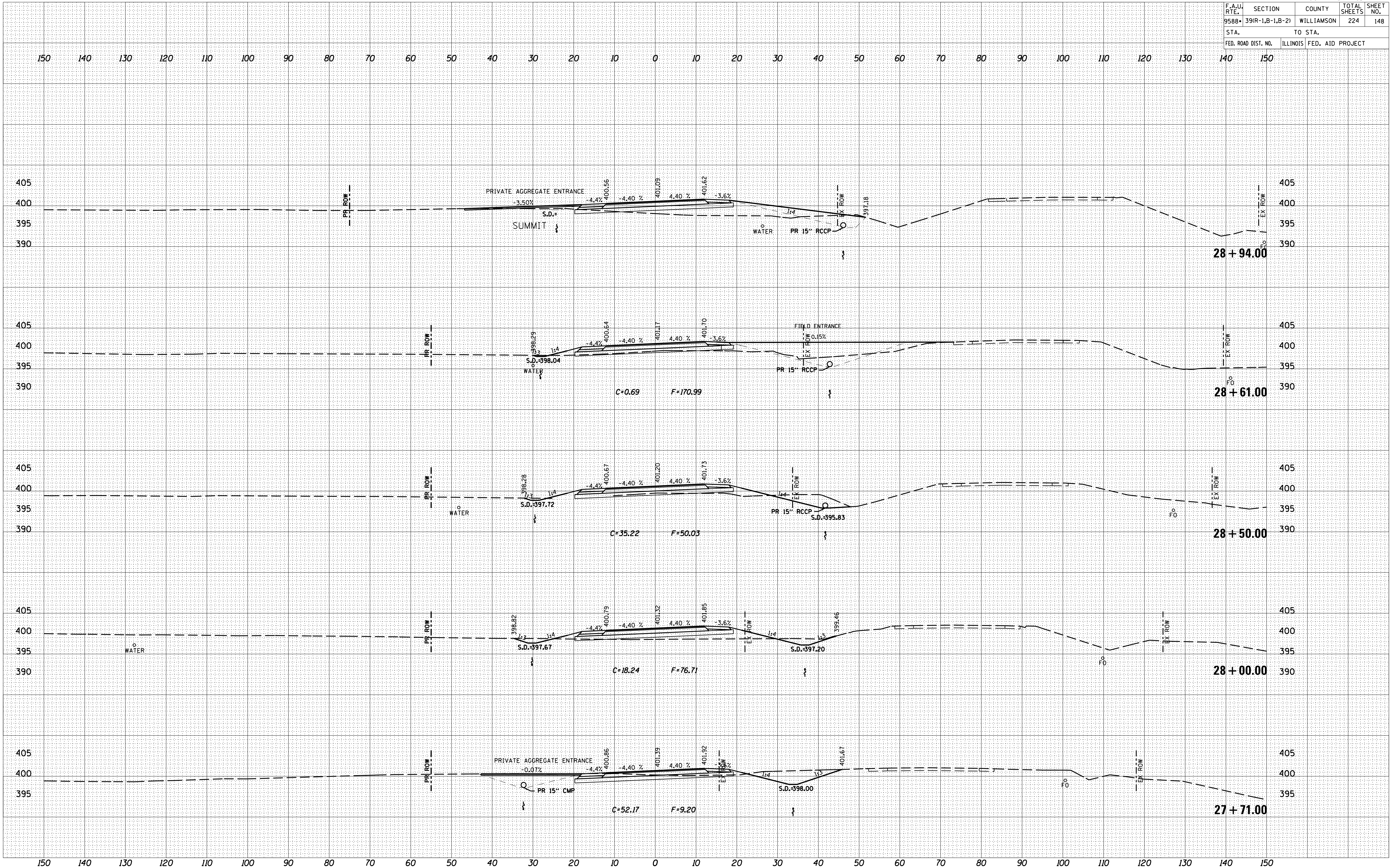
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	148

• & FAS 903

CONTRACT NO. 78277

STA. TO STA.

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



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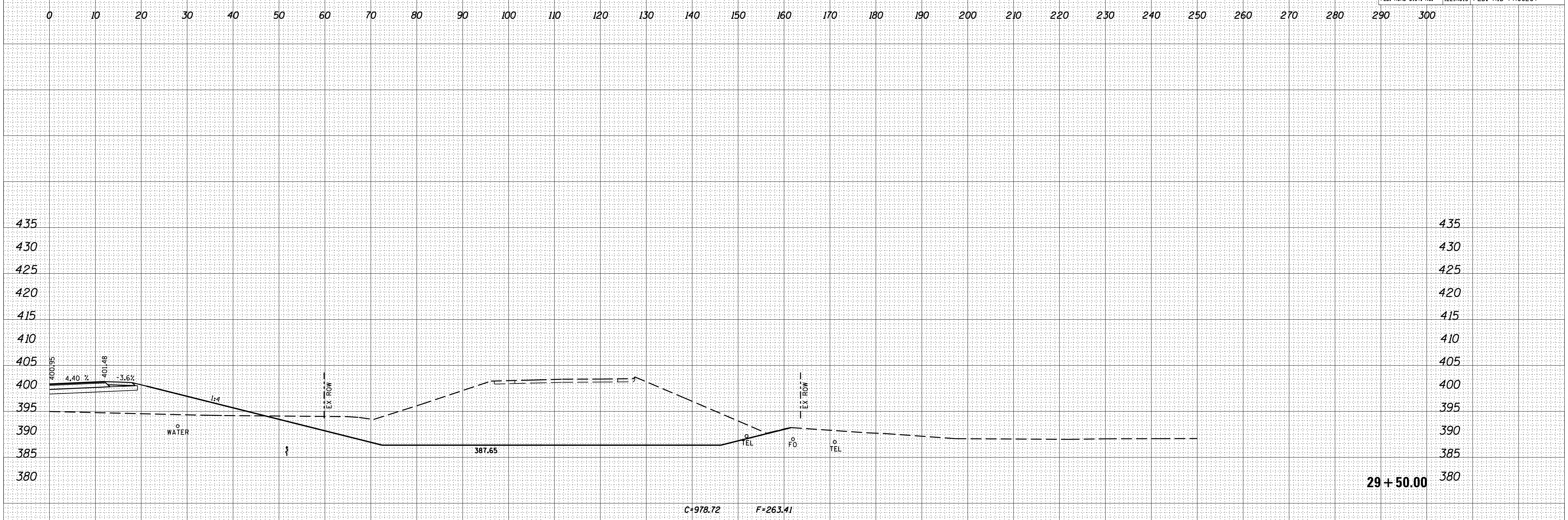
CROSS SECTIONS – FINAL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	149
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• & FAS 903

CONTRACT NO. 78277

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



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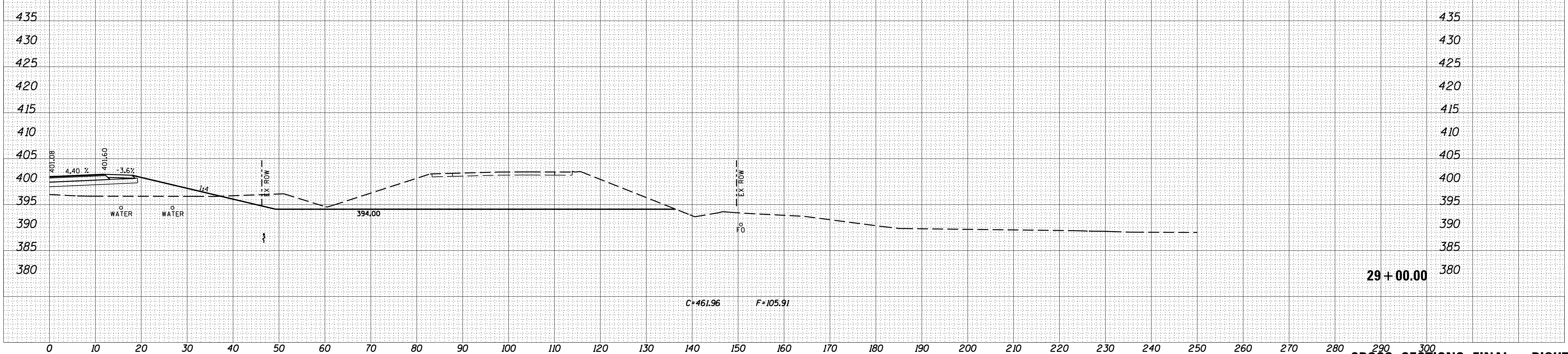
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NOTE BOOK NO.	
BY	
DATE	



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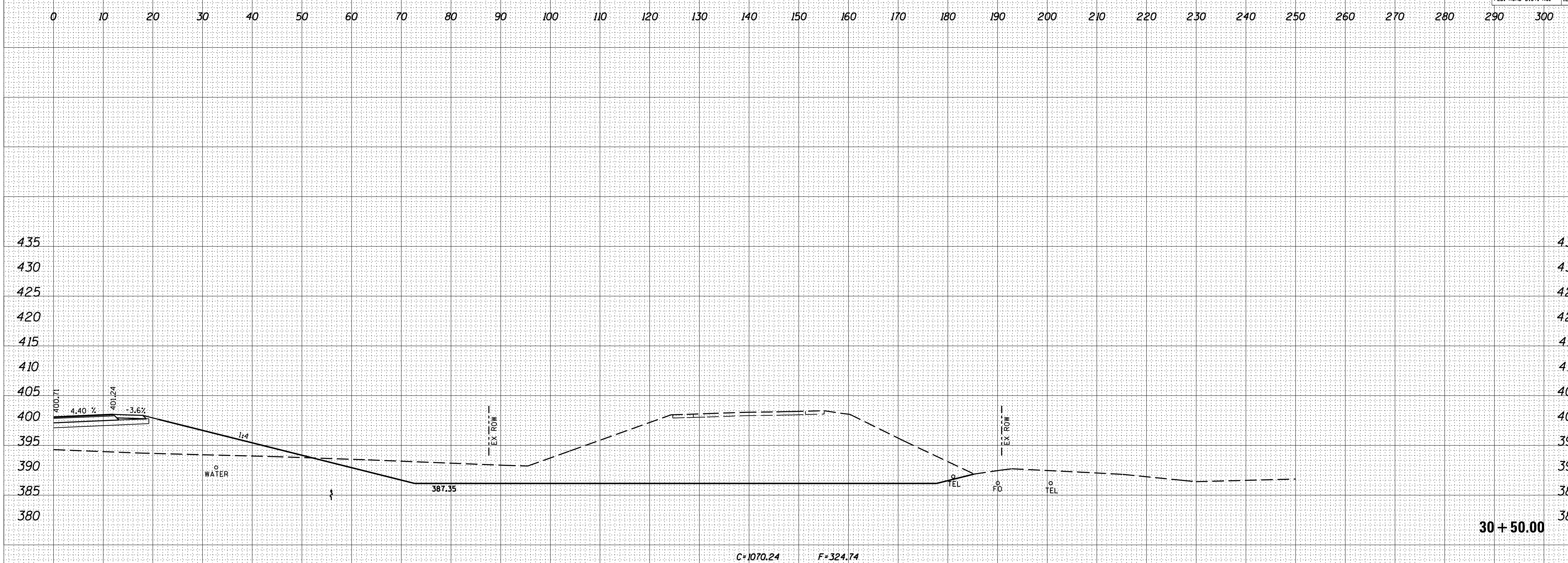
CROSS SECTIONS FINAL – RIGHT

• & FAS 903		CONTRACT NO. 78277		
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	150
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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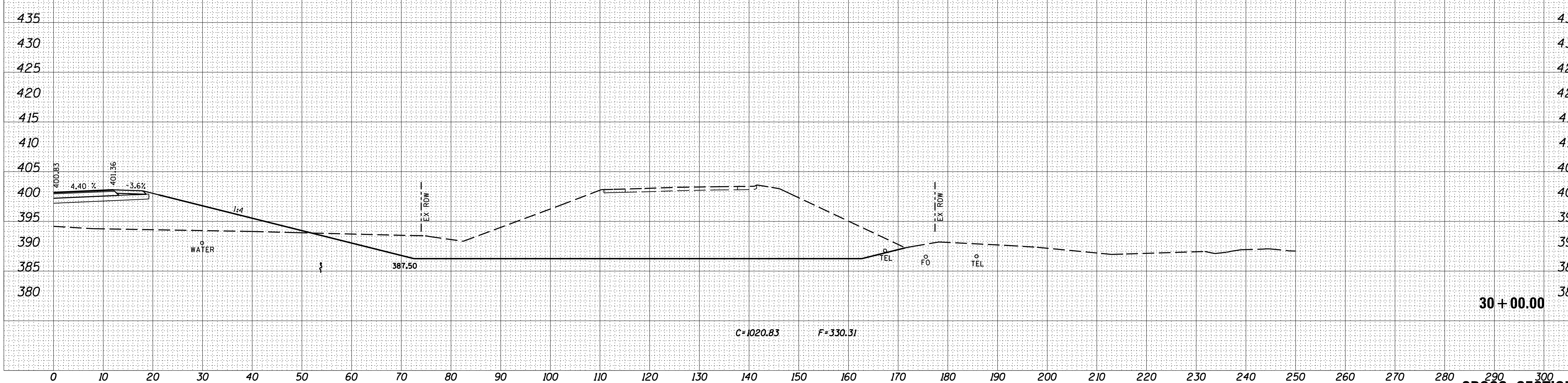

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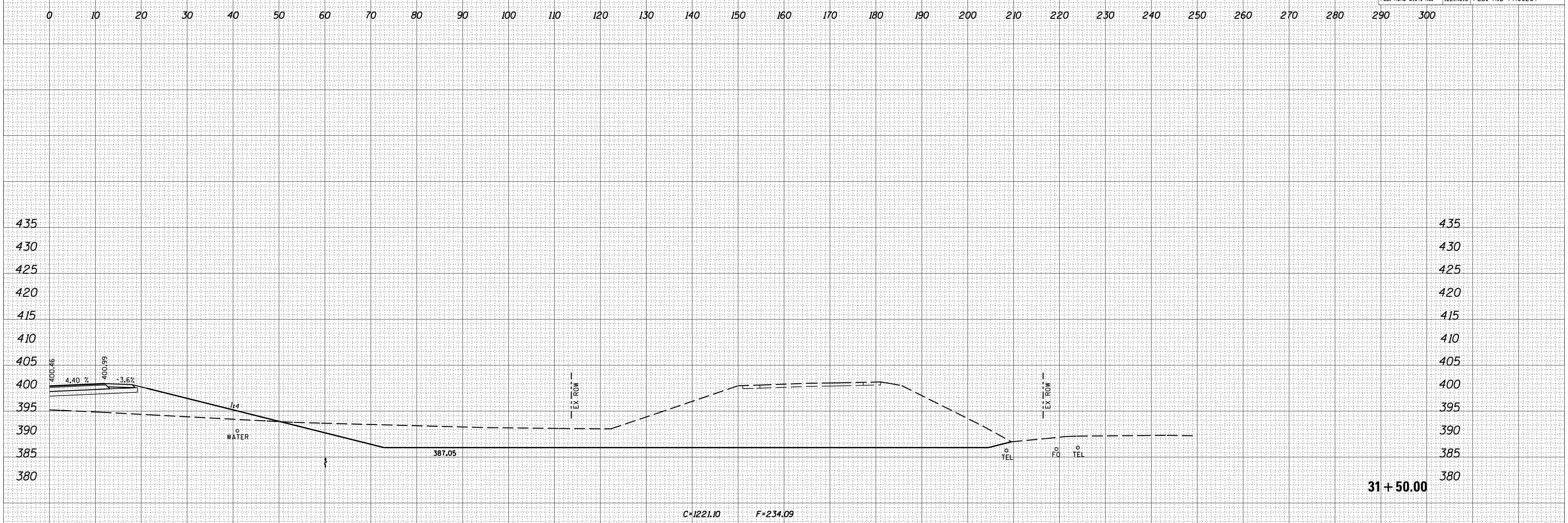
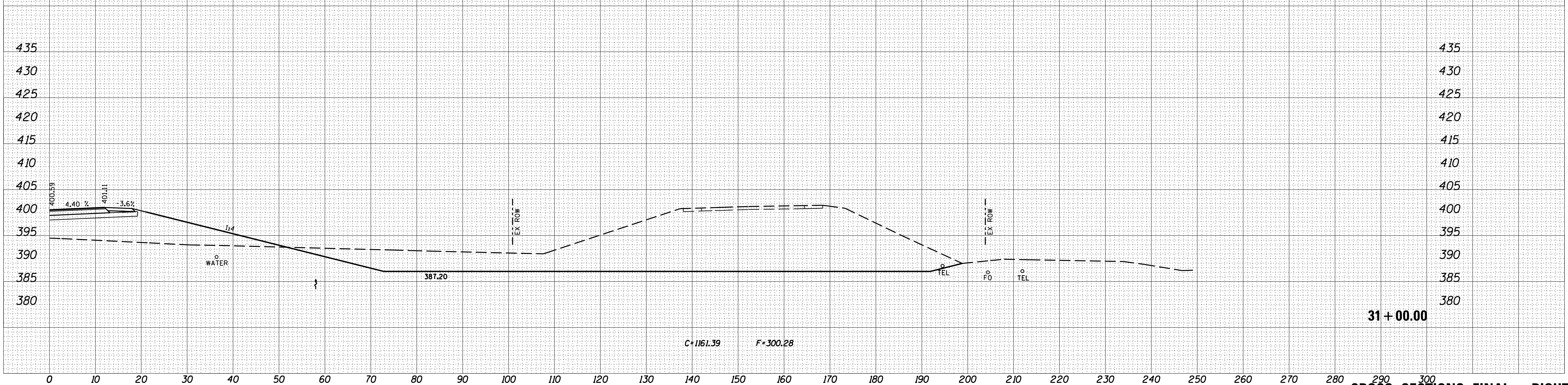
CROSS SECTIONS FINAL – RIGHT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	151
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		





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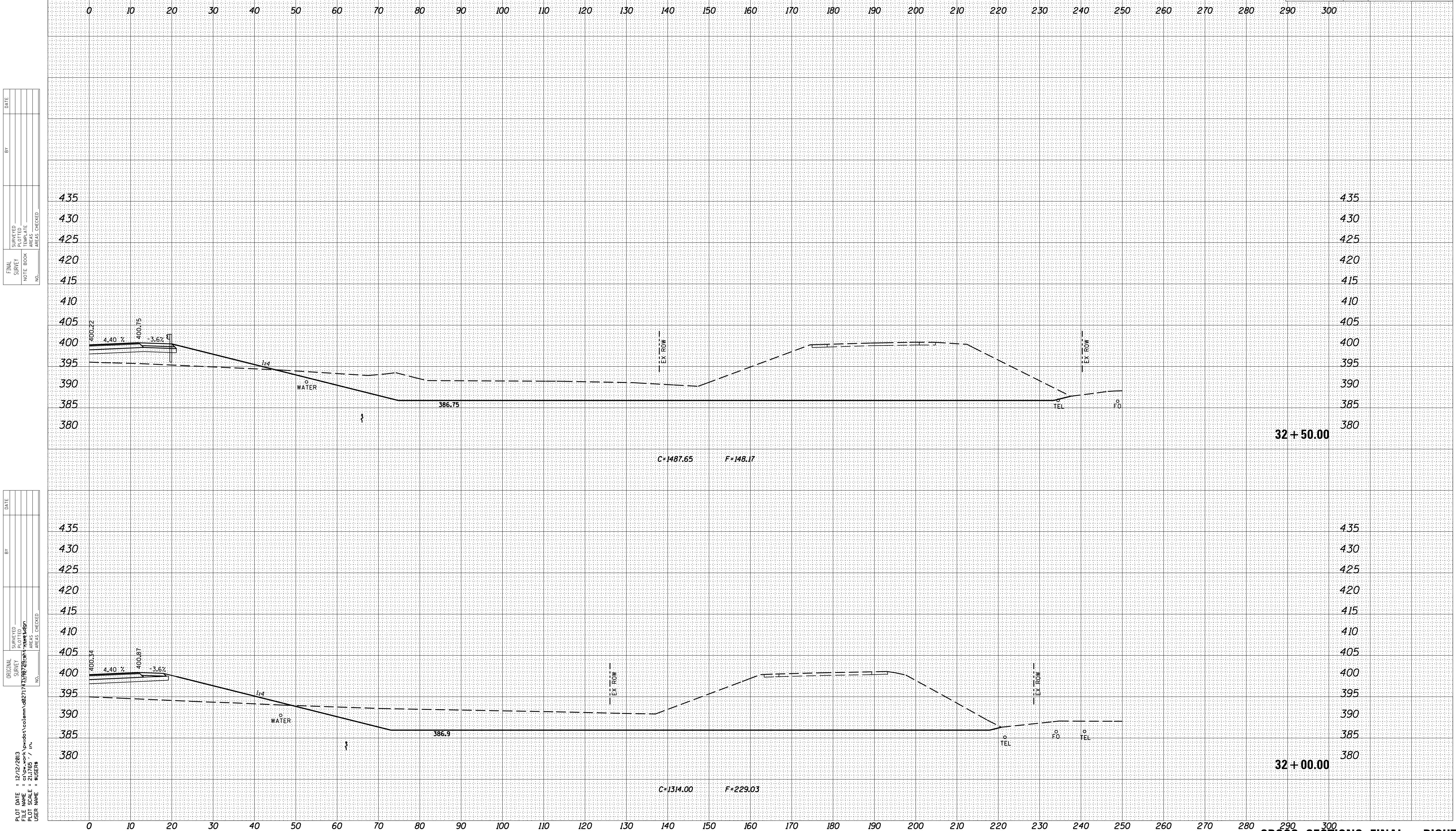
CROSS SECTIONS FINAL – RIGHT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	152
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS FINAL – RIGHT

• & FAS 903 **CONTRACT NO. 78277**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	153
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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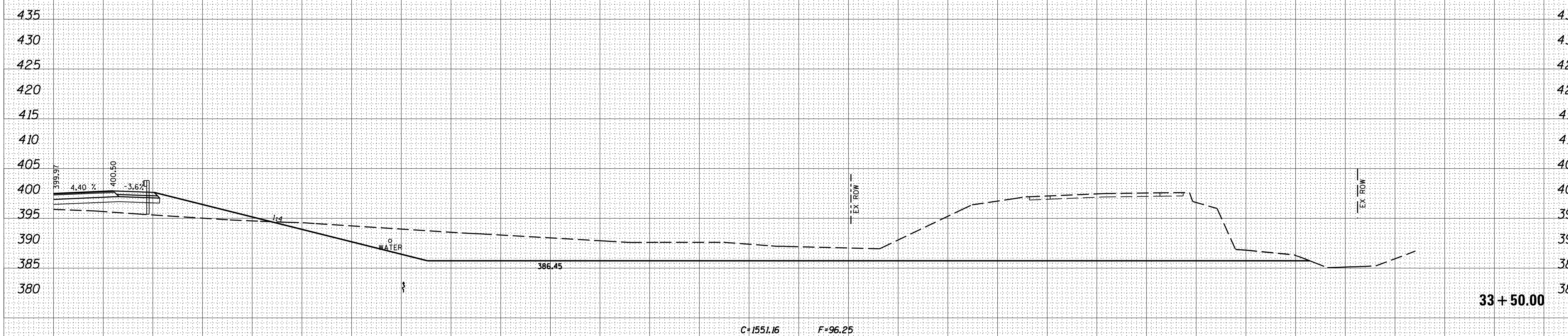

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NOTE BOOK	SURVEYED		
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	AREAS		
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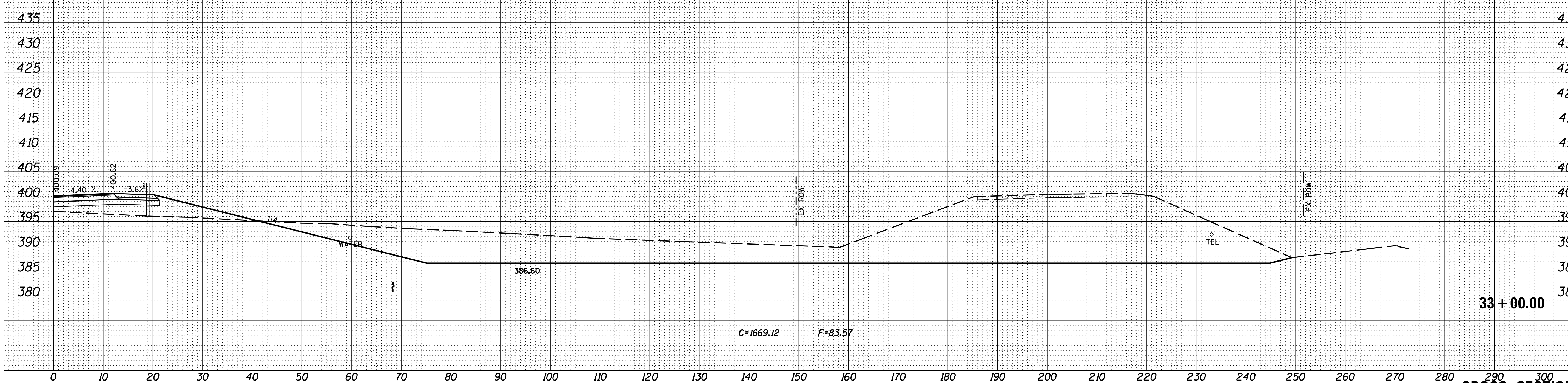

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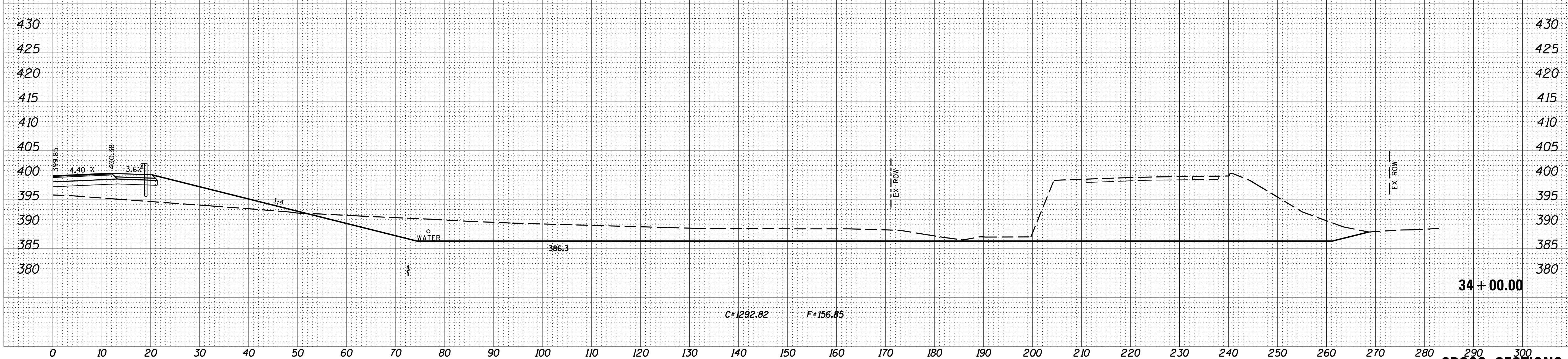
CROSS SECTIONS FINAL – RIGHT

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	154
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY | NO. | SURVEYED | PLOTTED | AREAS | AREAS CHECKED | BY | DATE

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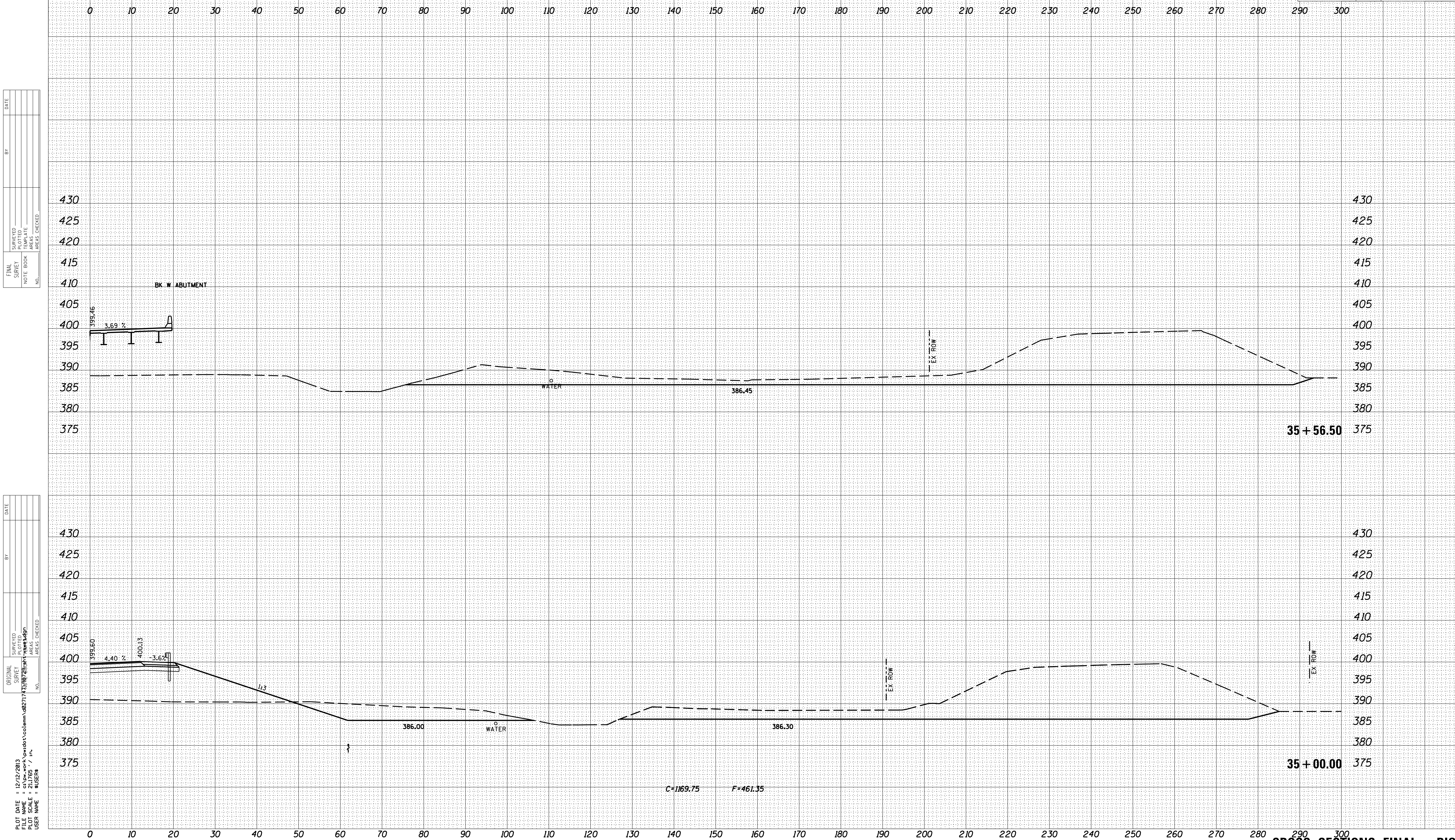
CROSS SECTIONS FINAL – RIGHT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	155
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS FINAL – RIGHT

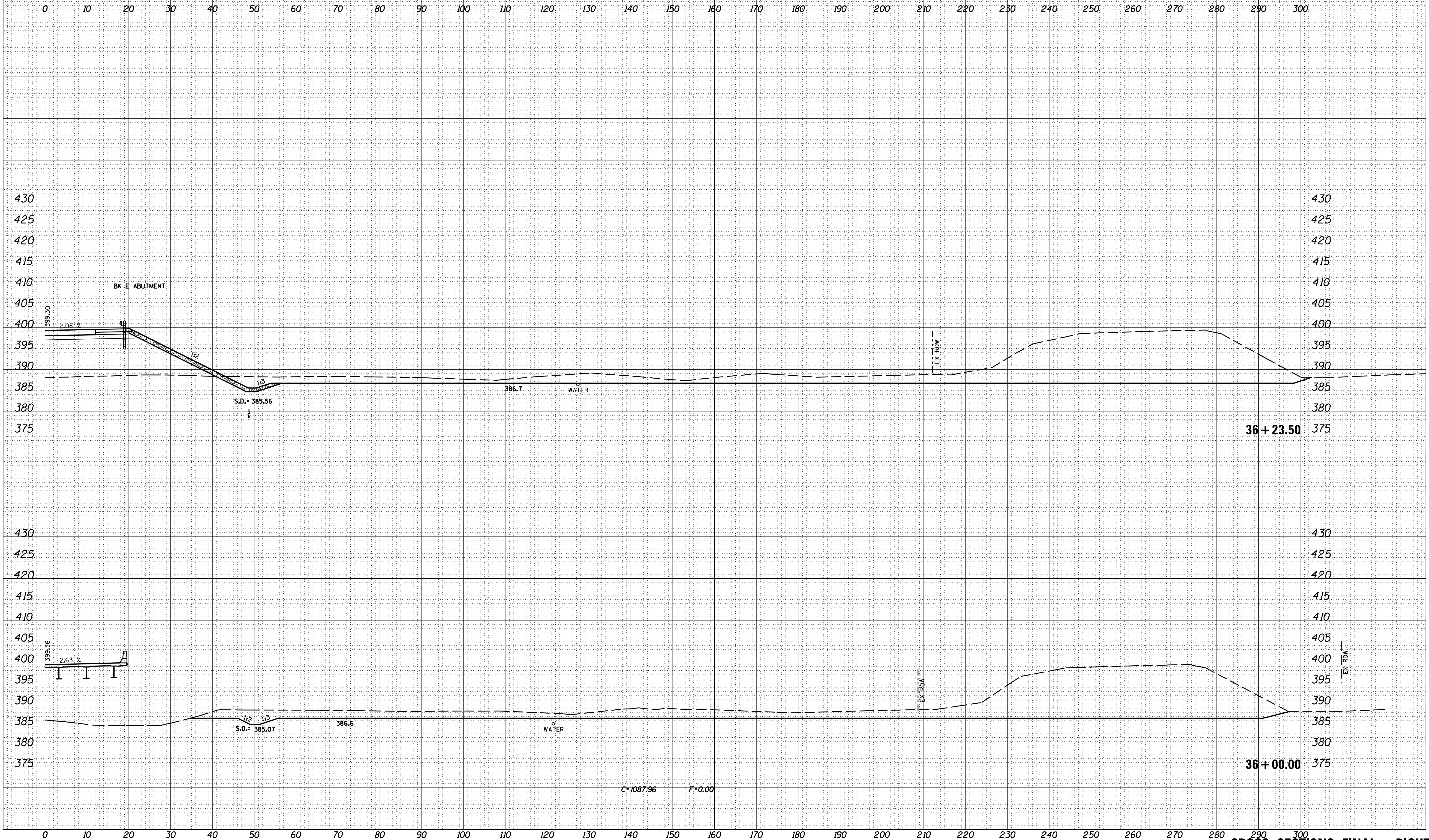
• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	156

STA. TO STA.

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



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

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

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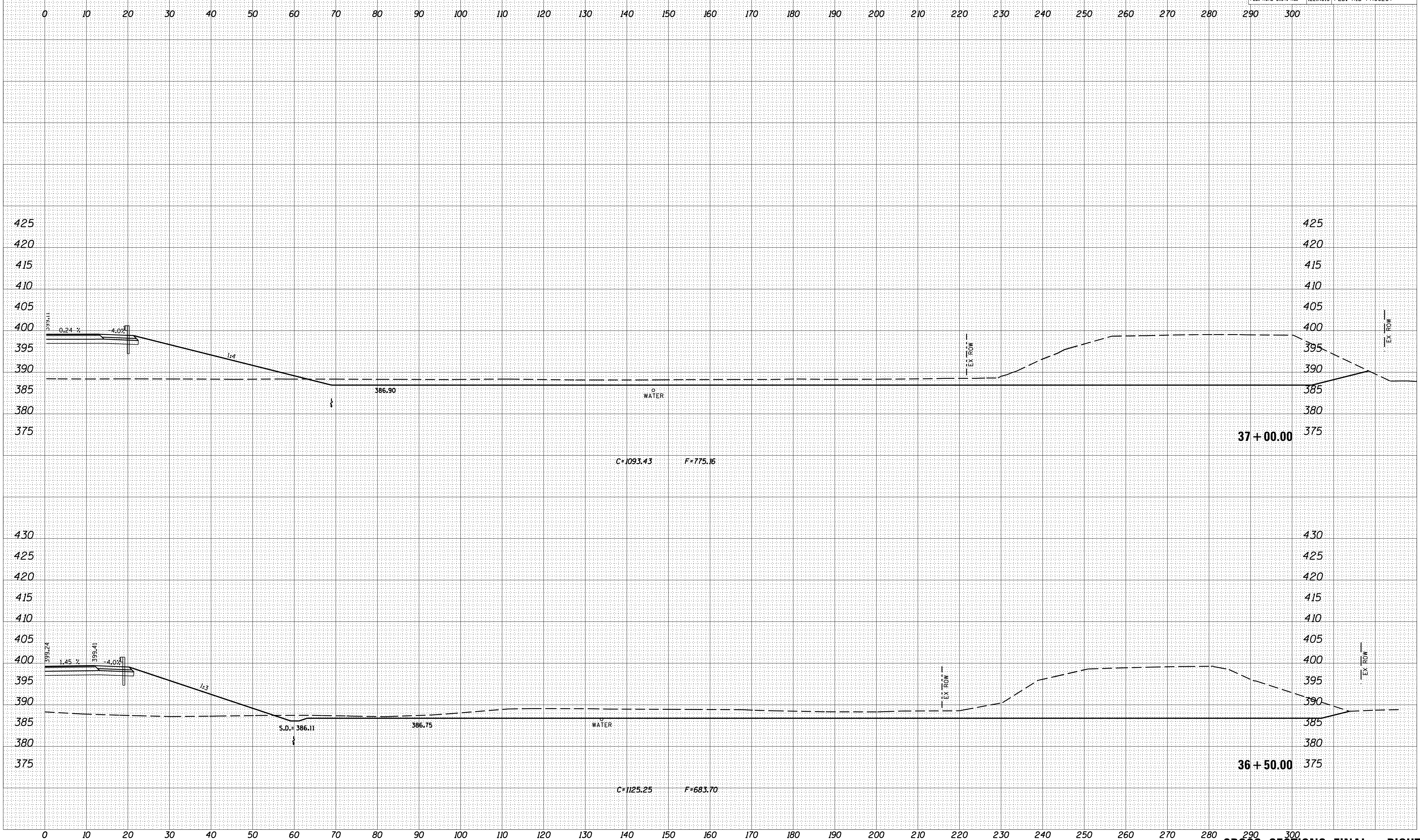
CROSS SECTIONS FINAL – RIGHT

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	157
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS FINAL – RIGHT

* & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	158
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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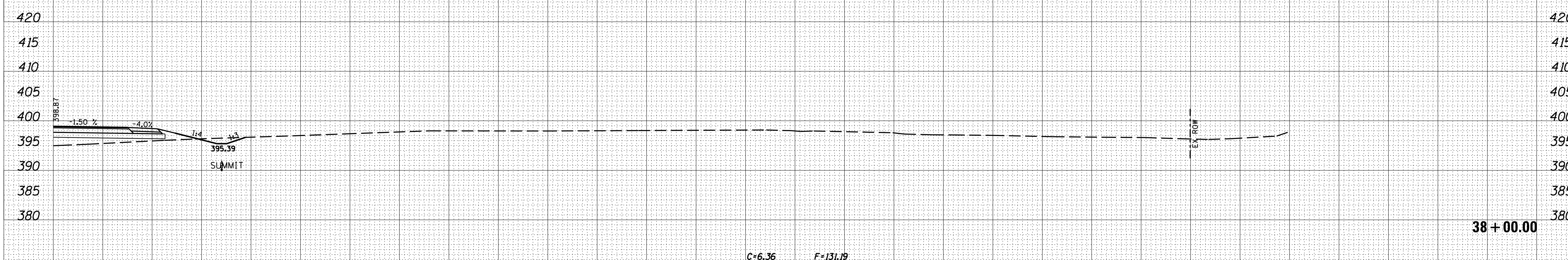

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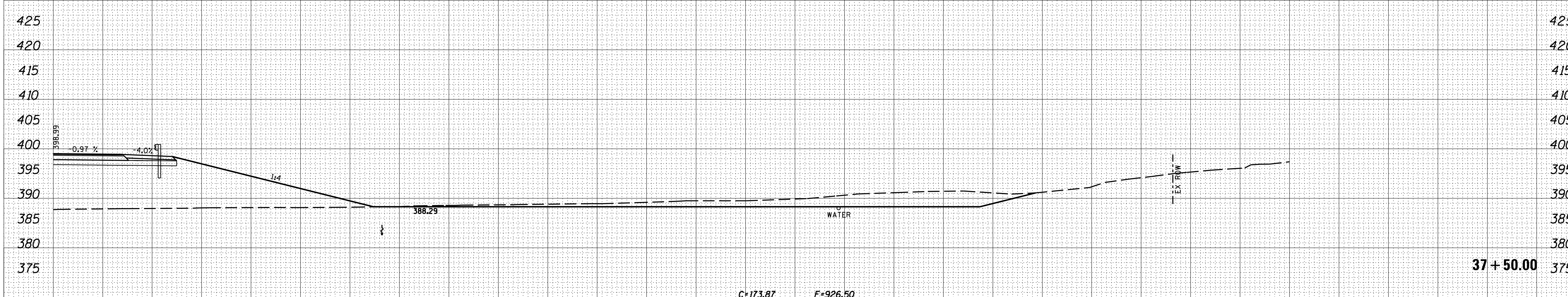

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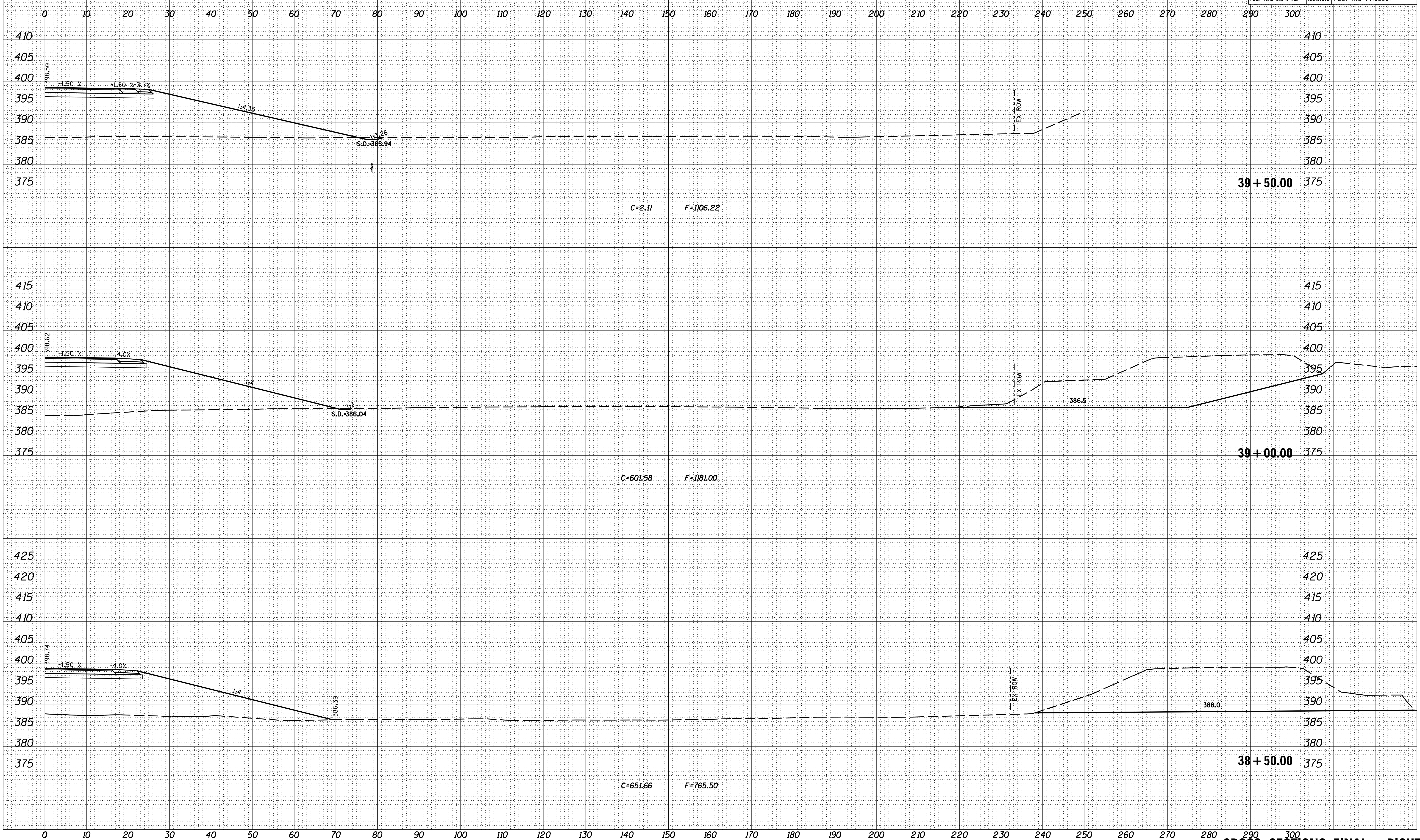
USER NAME = $USER$

CROSS SECTIONS FINAL – RIGHT

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	159
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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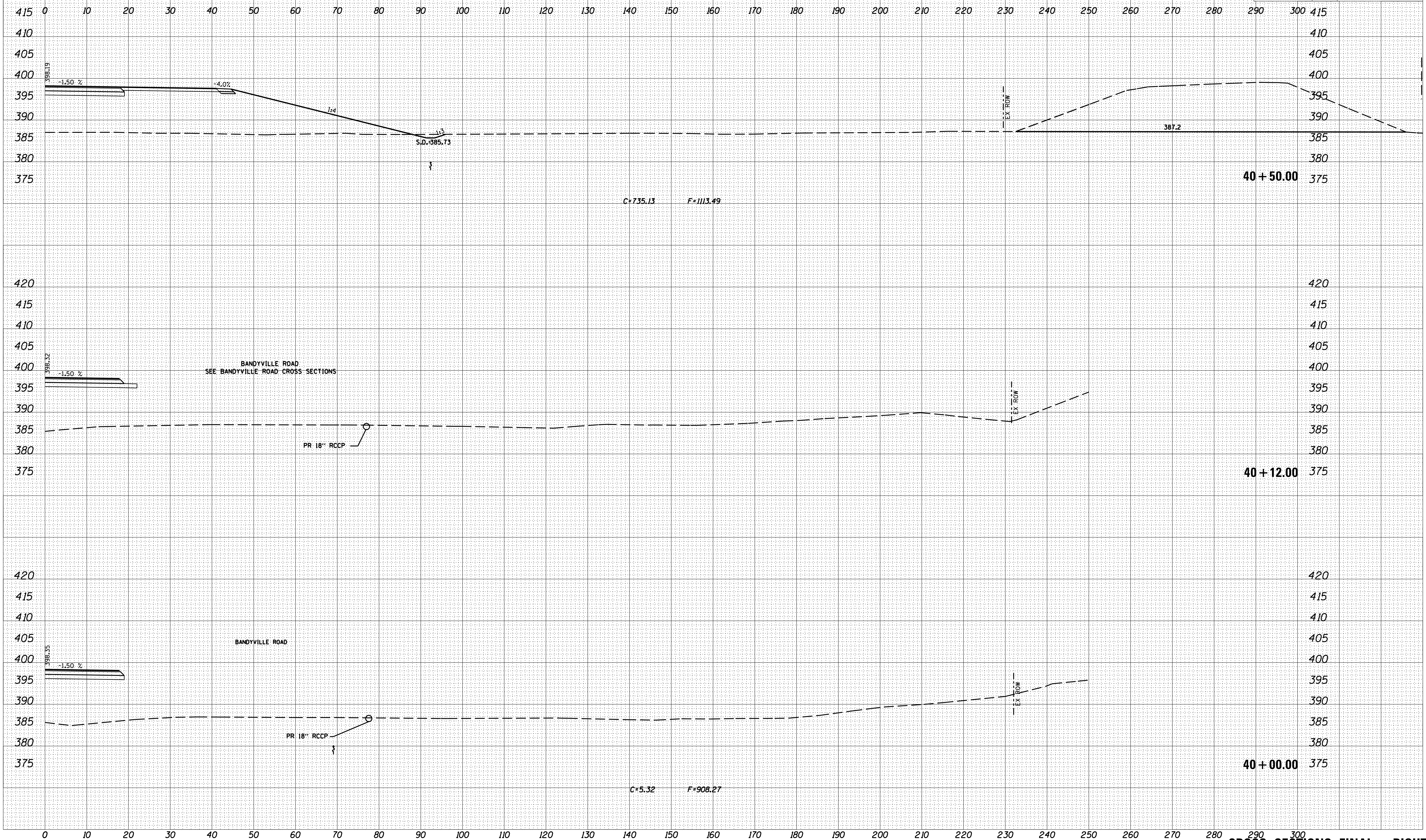
CROSS SECTIONS FINAL – RIGHT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	160
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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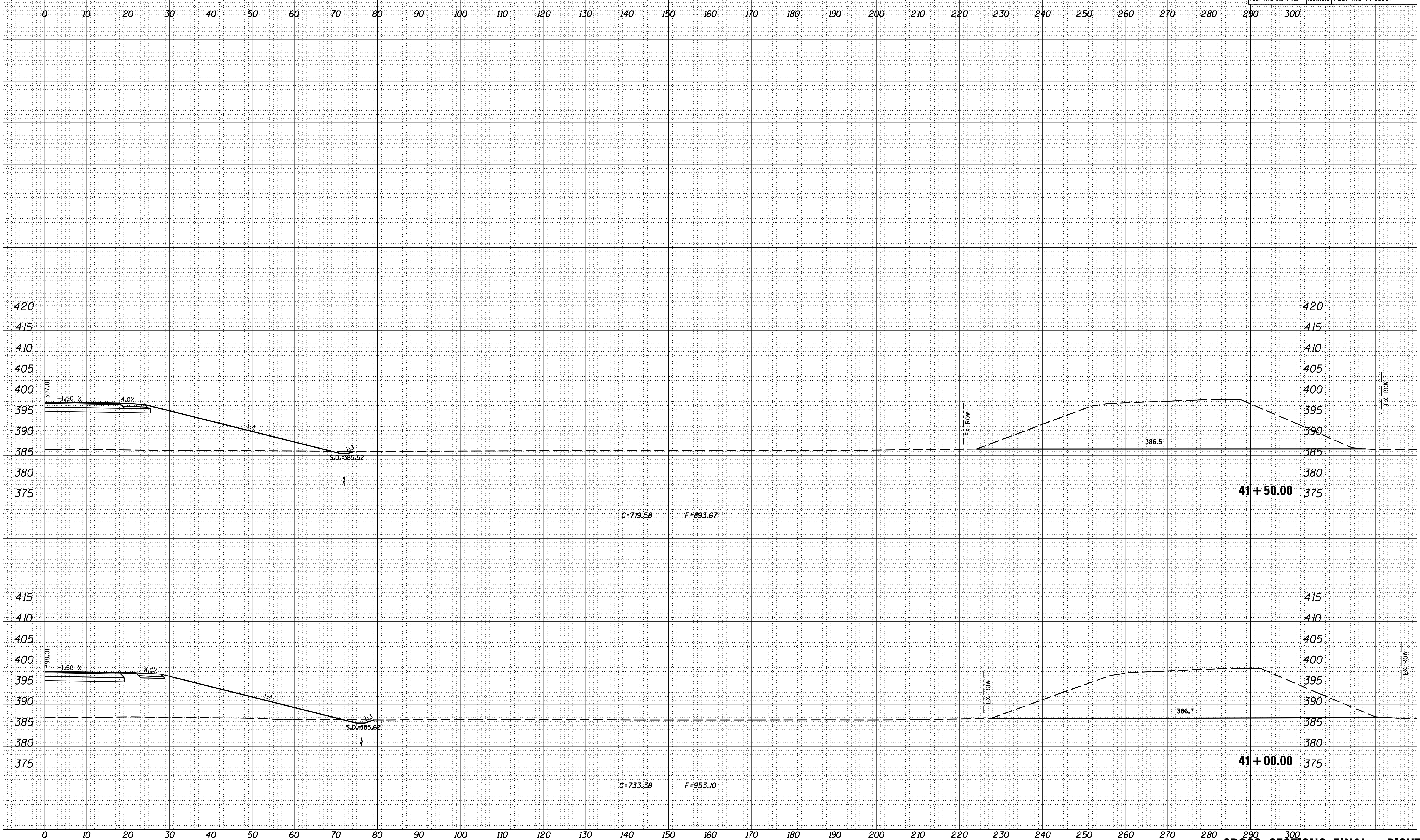
CROSS SECTIONS FINAL – RIGHT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	161
STA.		TO STA.		
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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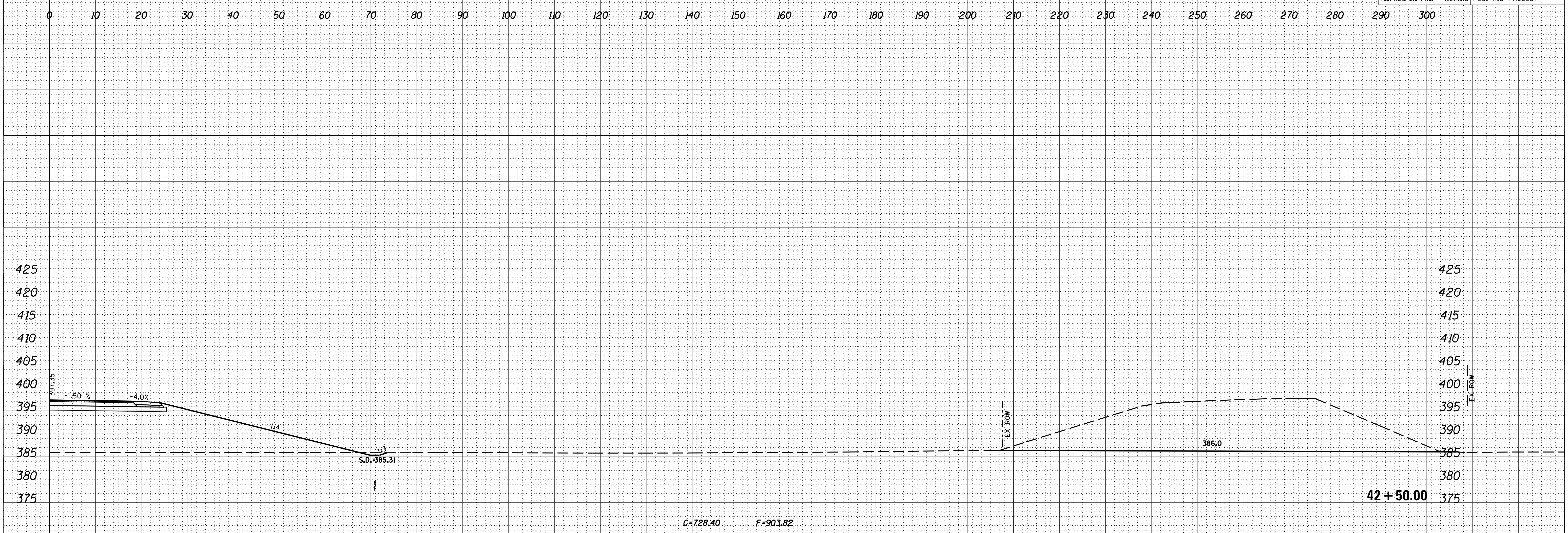
CROSS SECTIONS FINAL – RIGHT

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	162
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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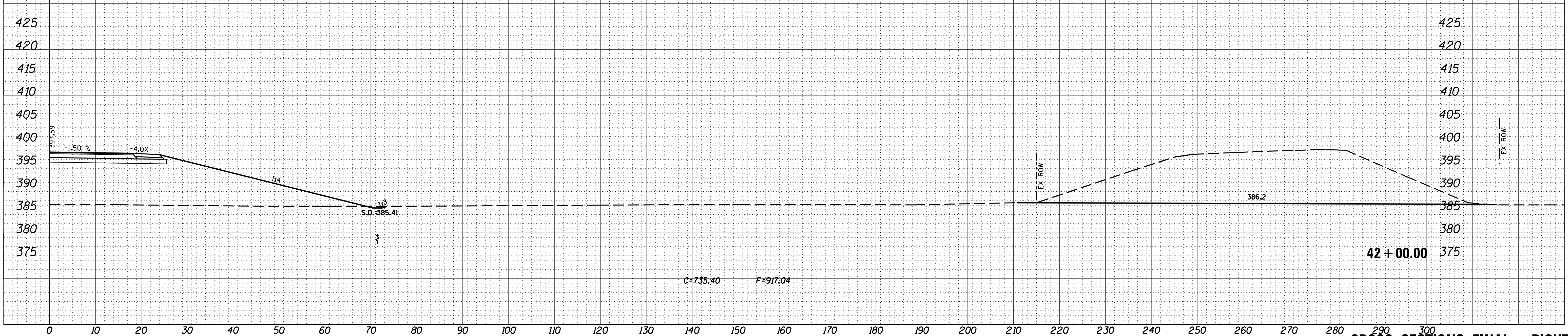

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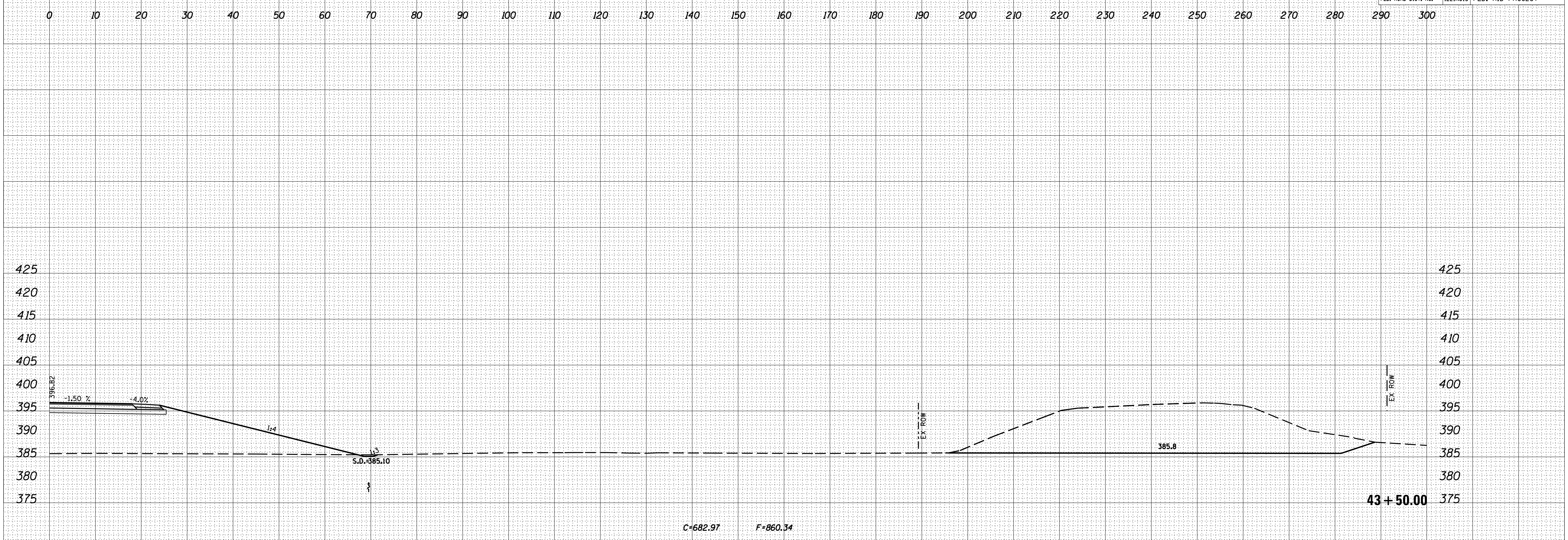
CROSS SECTIONS FINAL – RIGHT

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	163
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS FINAL – RIGHT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	164
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

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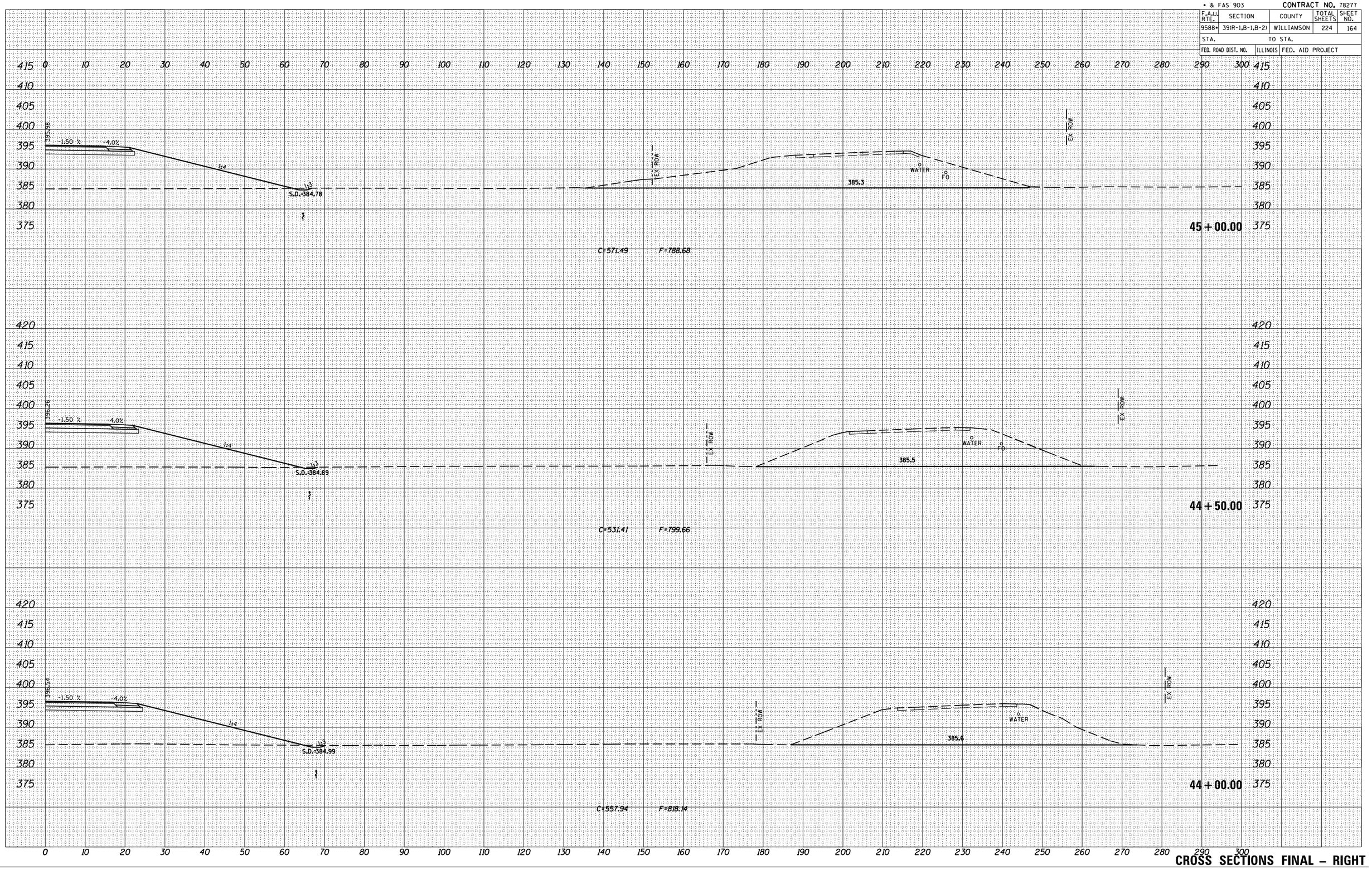
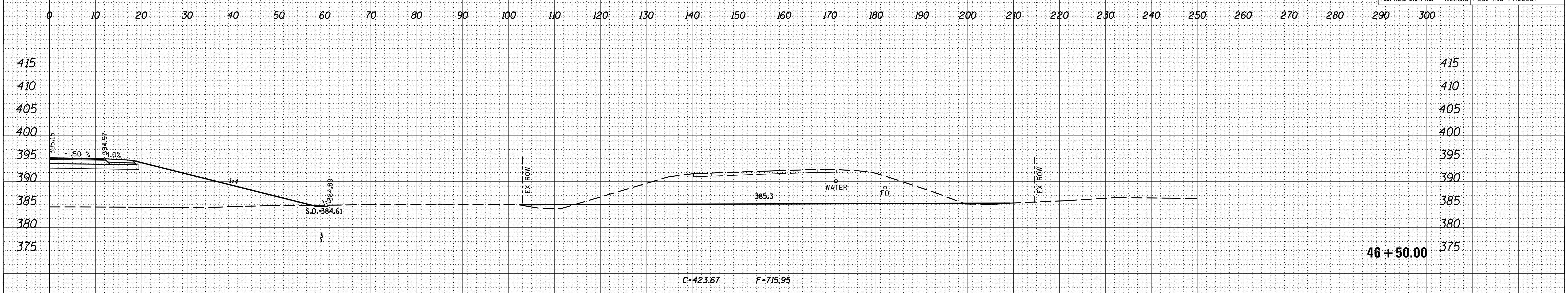
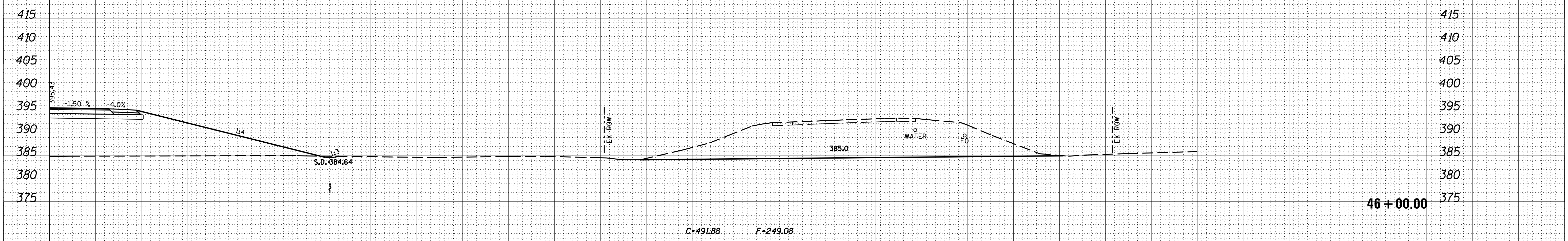


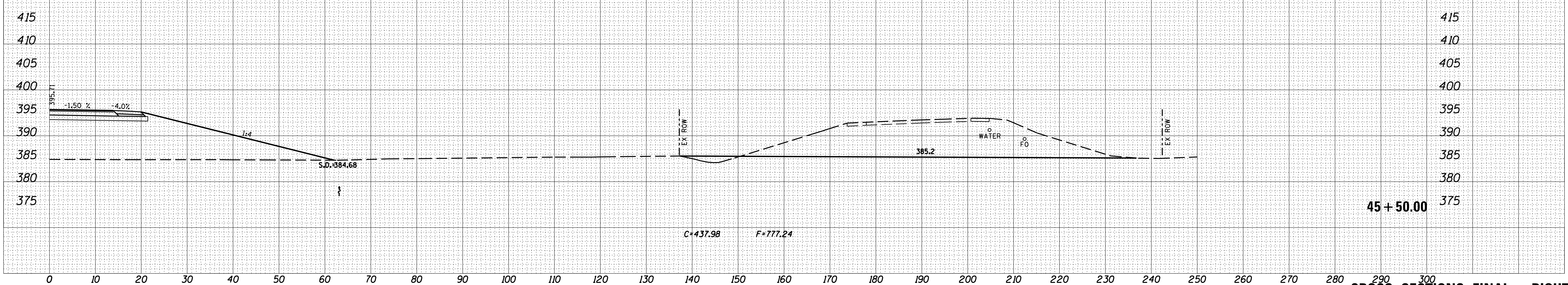
CROSS SECTIONS FINAL – RIGHT

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	165
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		







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

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

PLOT DATE = 12/12/2013
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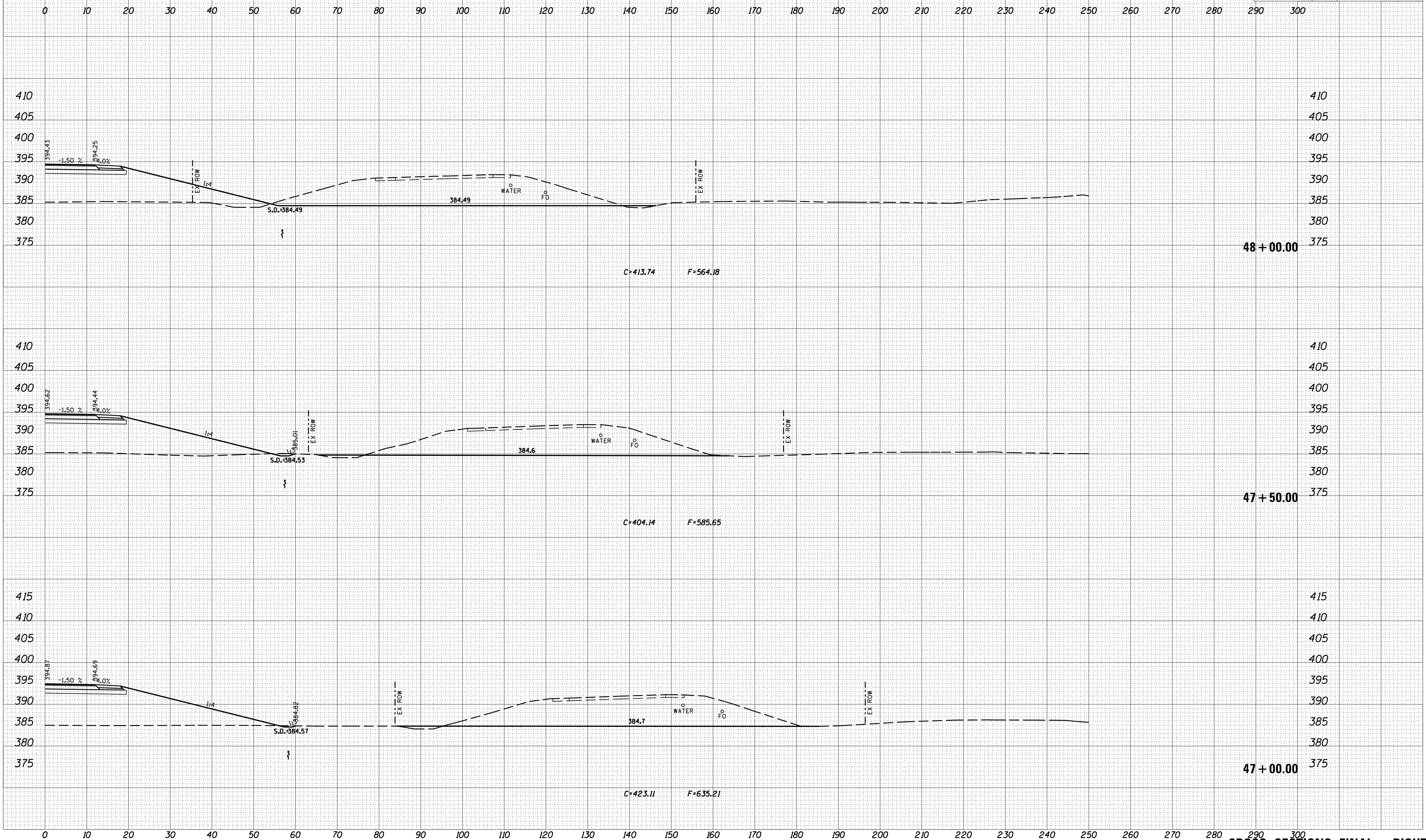
CROSS SECTIONS FINAL – RIGHT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	166
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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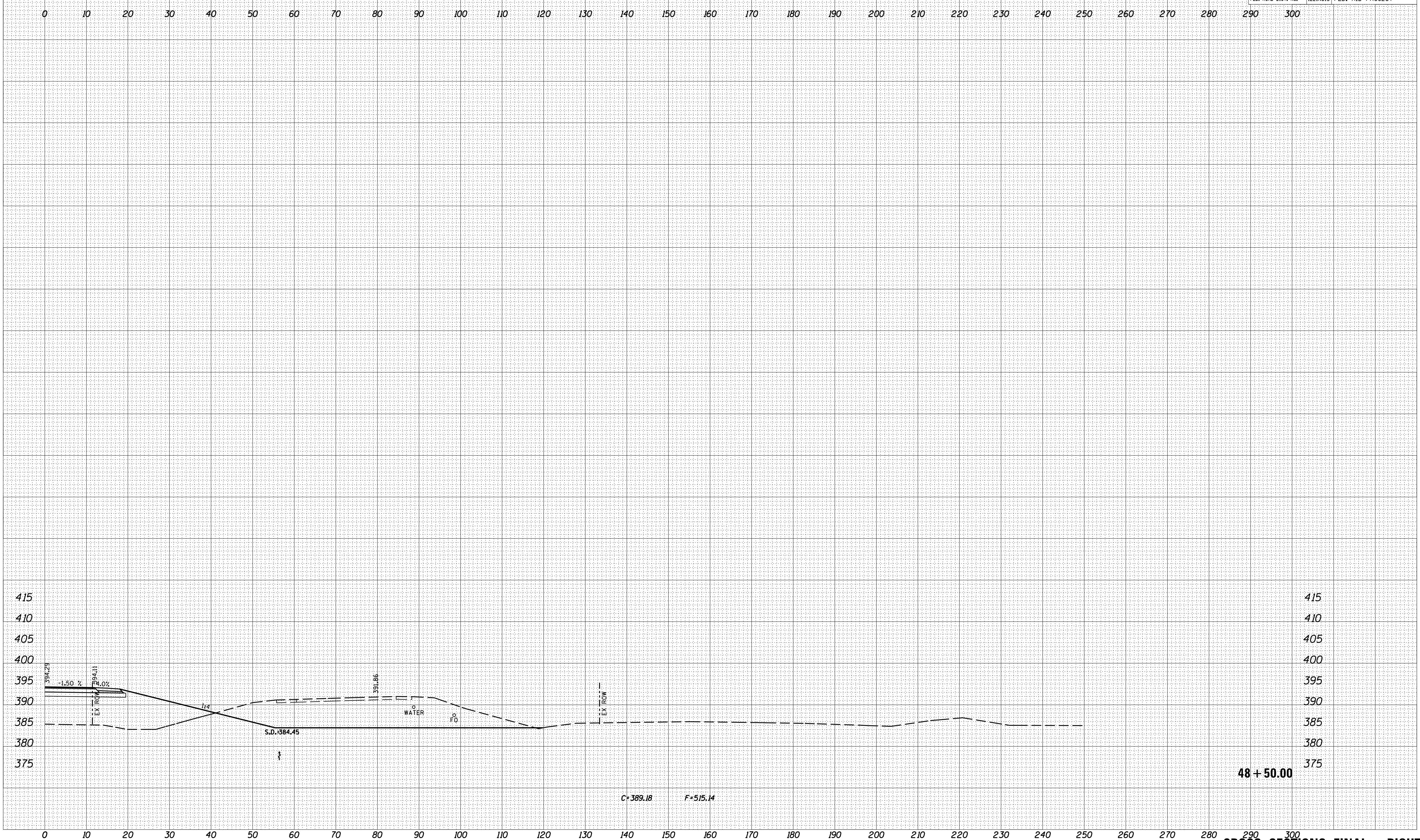
CROSS SECTIONS FINAL – RIGHT

• & FAS 903 CONTRACT NO. 78277

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	167
STA.		TO STA.		
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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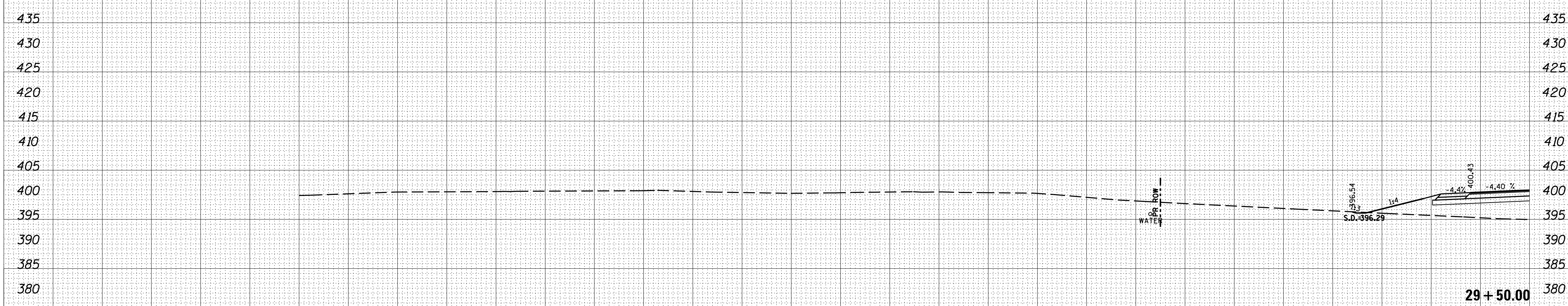
CROSS SECTIONS FINAL – RIGHT

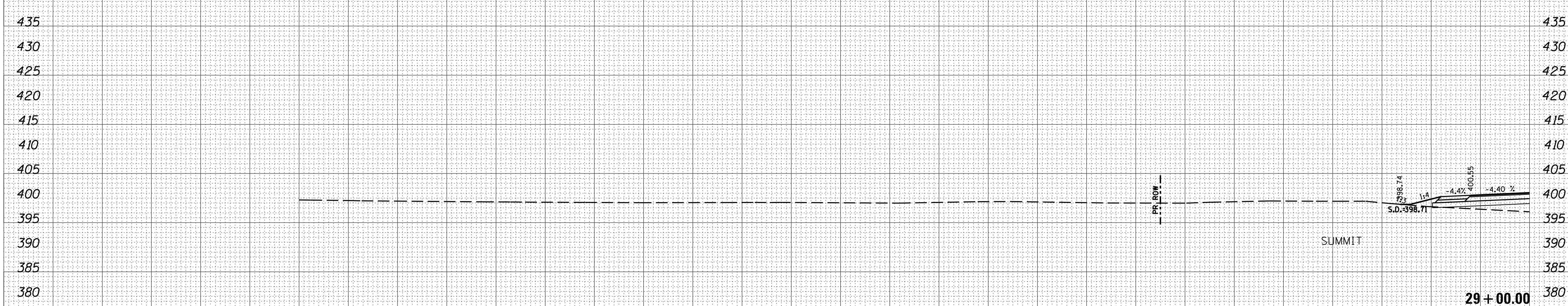
• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	168

STA.	TO STA.

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





300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0

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

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CROSS SECTIONS FINAL – LEFT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	169

STA. TO STA.

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

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

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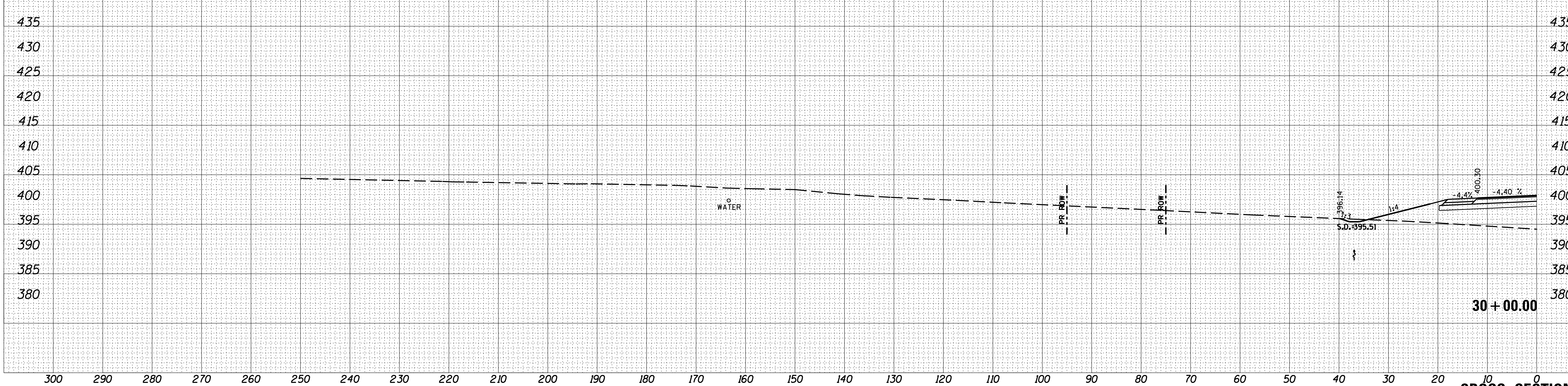

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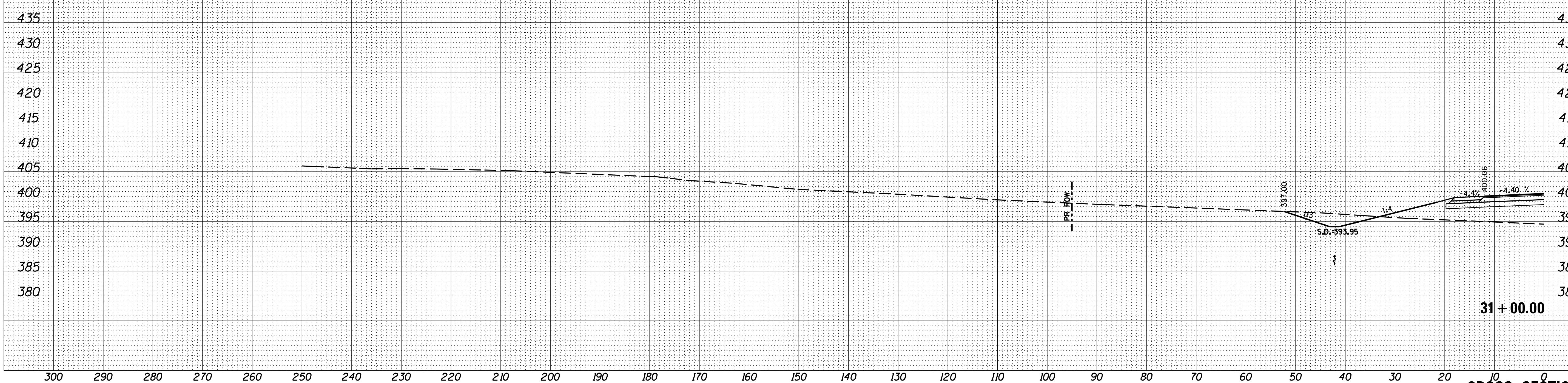
CROSS SECTIONS FINAL – LEFT

• & FAS 903			CONTRACT NO. 78277	
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	170
STA.		TO STA.		
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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CROSS SECTIONS FINAL – LEFT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	171
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0

435 430 425 420 415 410 405 400 395 390 385 380

PR ROW

398.62

1:3

S.D.=391.61

1:4

399.69

-4.47%

-4.40 %

32+50.00

398.79

1:3

S.D.=392.39

1:4

399.8

-4.47%

-4.40 %

32+00.00

CROSS SECTIONS FINAL – LEFT

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

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

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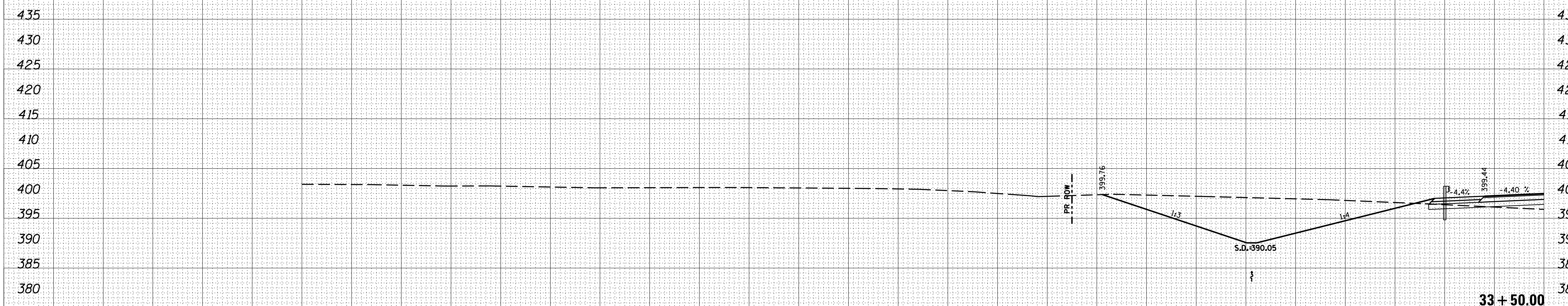
• & FAS 903

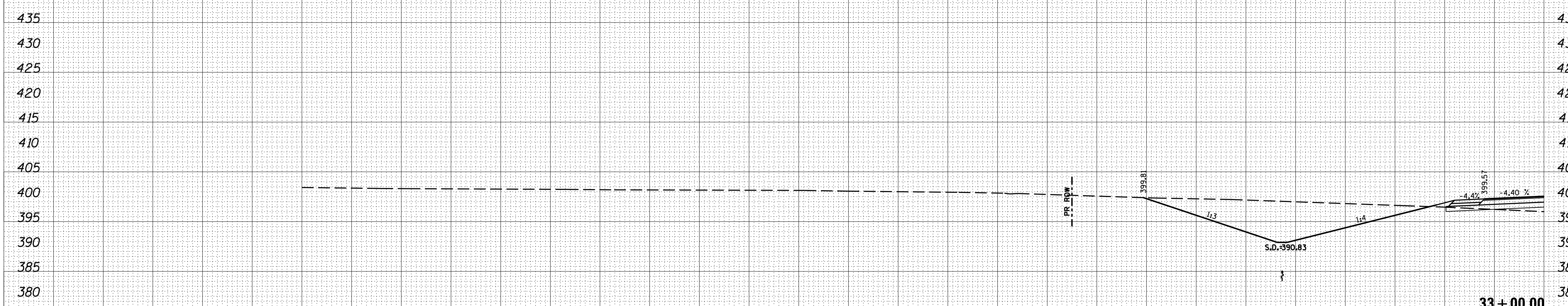
CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	172
STA.		TO STA.		
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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CROSS SECTIONS FINAL – LEFT

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	173
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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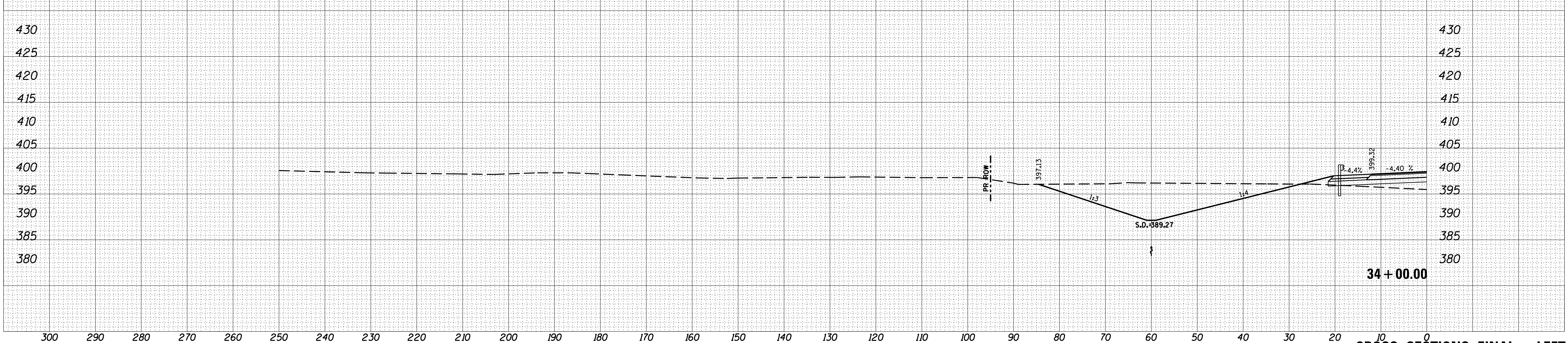

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CROSS SECTIONS FINAL – LEFT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	174
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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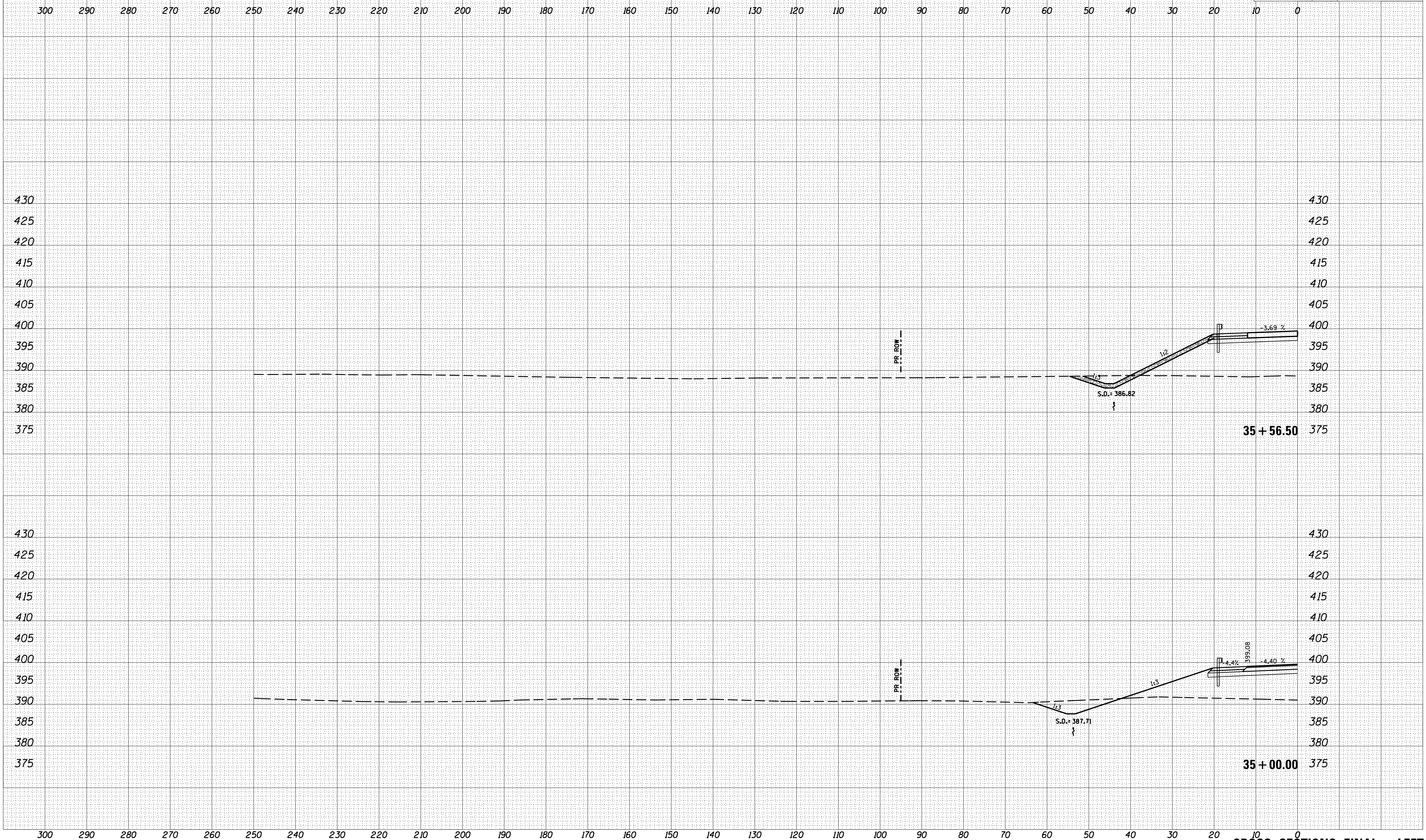

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CROSS SECTIONS FINAL – LEFT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	175
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0

430 425 420 415 410 405 400 395 390 385 380 375

PR ROW

-2.08 %

36 + 23.50

PR ROW

-2.63 %

S.D.= 386.09

36 + 00.00

CROSS SECTIONS FINAL – LEFT

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TYPING & CK		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TYPING & CK		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

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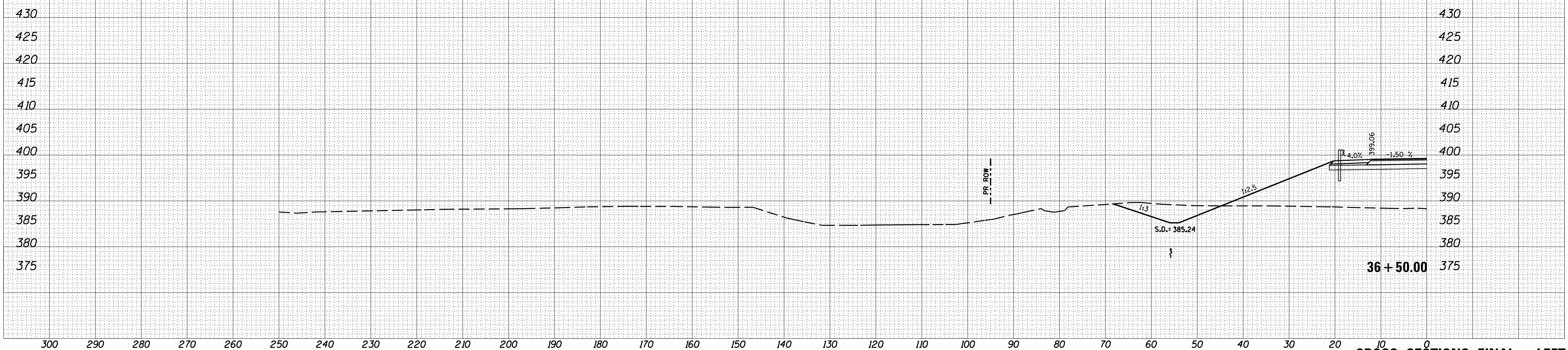
* & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	176
STA.	TO STA.			
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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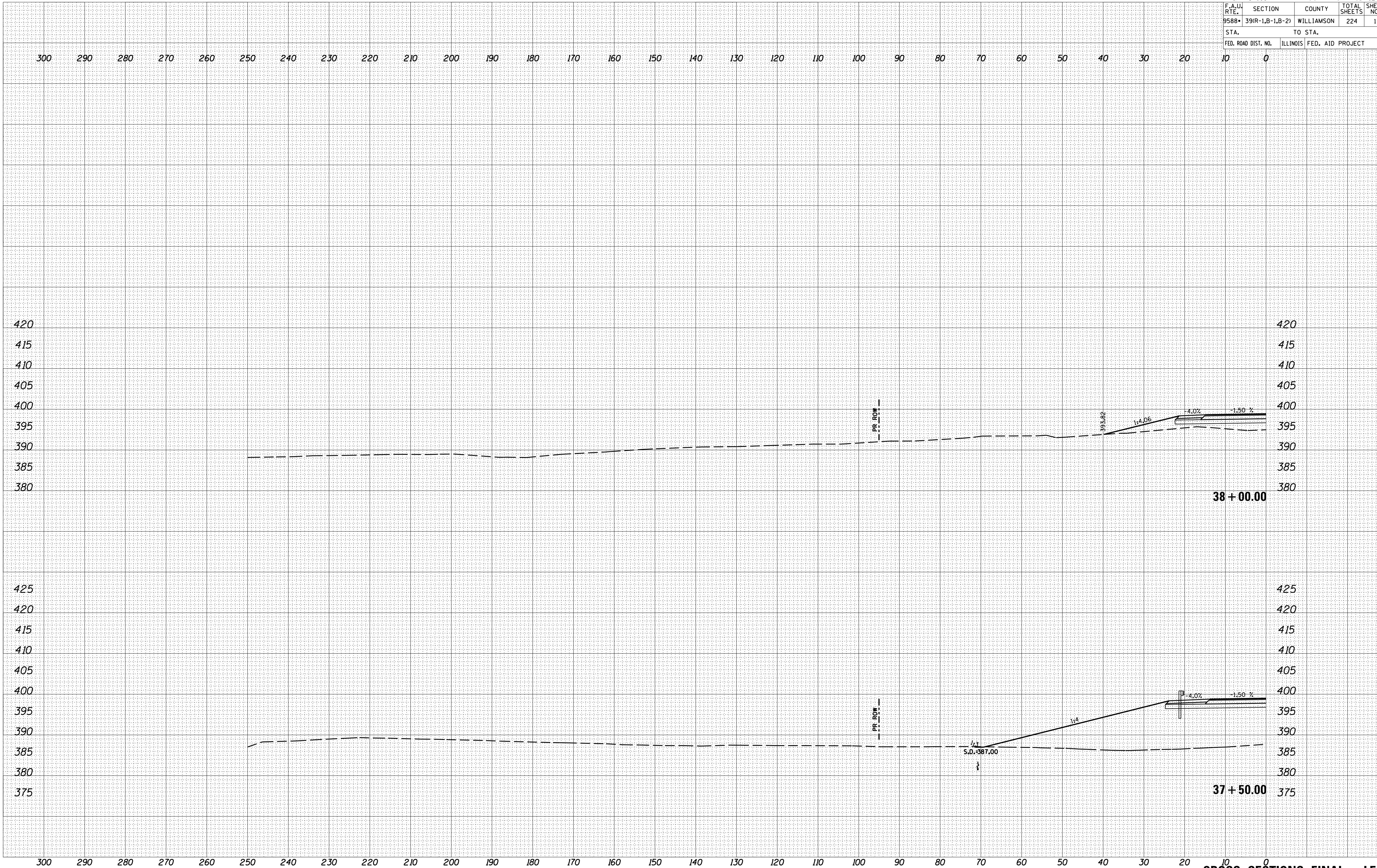
CROSS SECTIONS FINAL – LEFT

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	177
STA.		TO STA.		
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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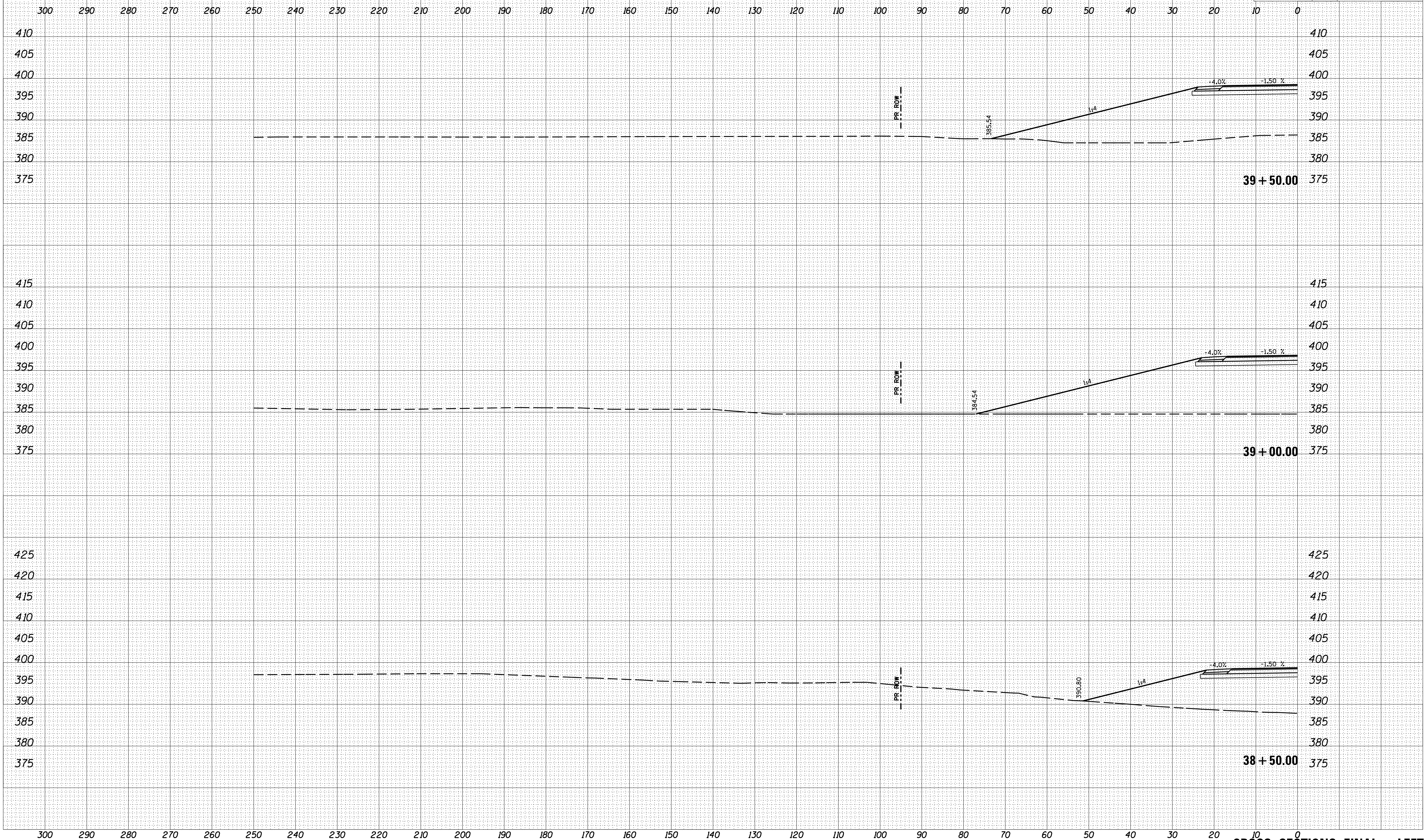
USER NAME = $USER$

CROSS SECTIONS FINAL – LEFT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	178
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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CROSS SECTIONS FINAL – LEFT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	179
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = 12/12/2013
FILE NAME = c:\pw_work\pwidot\coleman\d0217478\Sht 25.dgn
PLOT SCALE = 211765 / in.
USER NAME = #USER#

40 + 50.00

PR ROW

PR ROW

1:4

-4.0%

-1.50 %

FIELD ENTRANCE

40 + 12.00

PR ROW

1:5.5

-4.0%

-1.50 %

40 + 00.00

PR ROW

1:5.5

-4.0%

-1.50 %

415 410 405 400 395 390 385 380 375 420

300 290 280 270 260 250 240 230 220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0

CROSS SECTIONS FINAL – LEFT

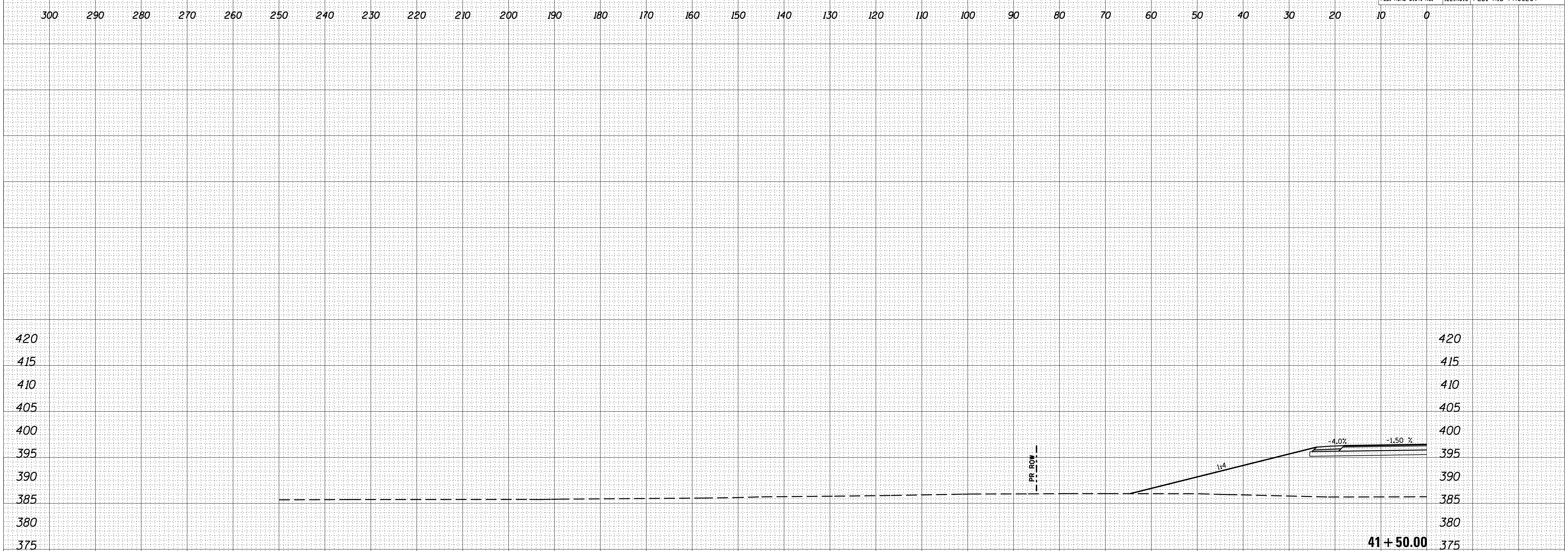
* & FAS 903

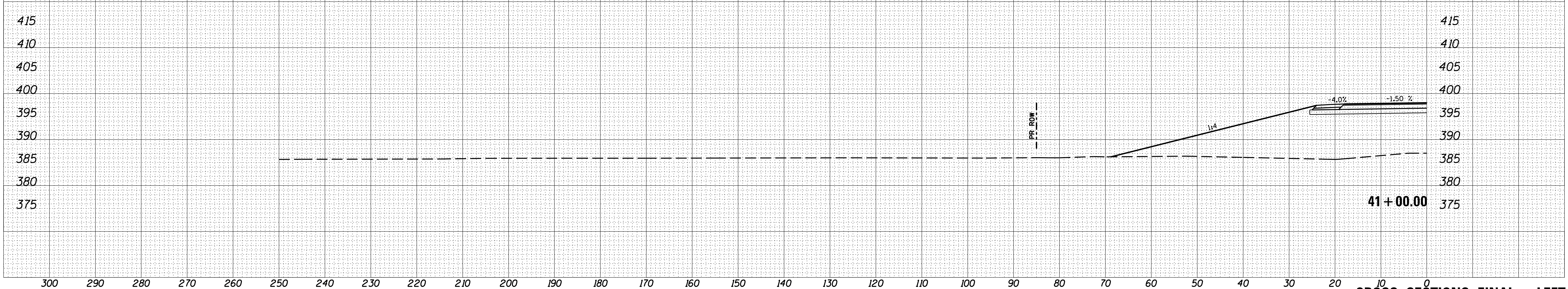
CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	180
STA.		TO STA.		
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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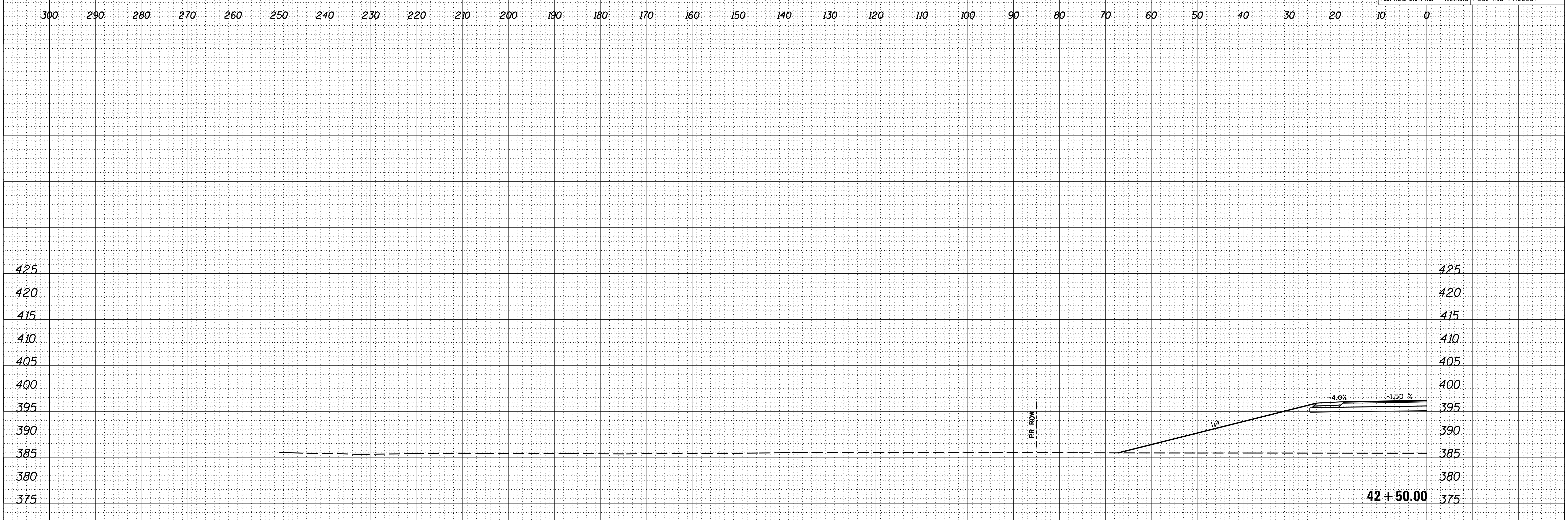
CROSS SECTIONS FINAL – LEFT

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	181
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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



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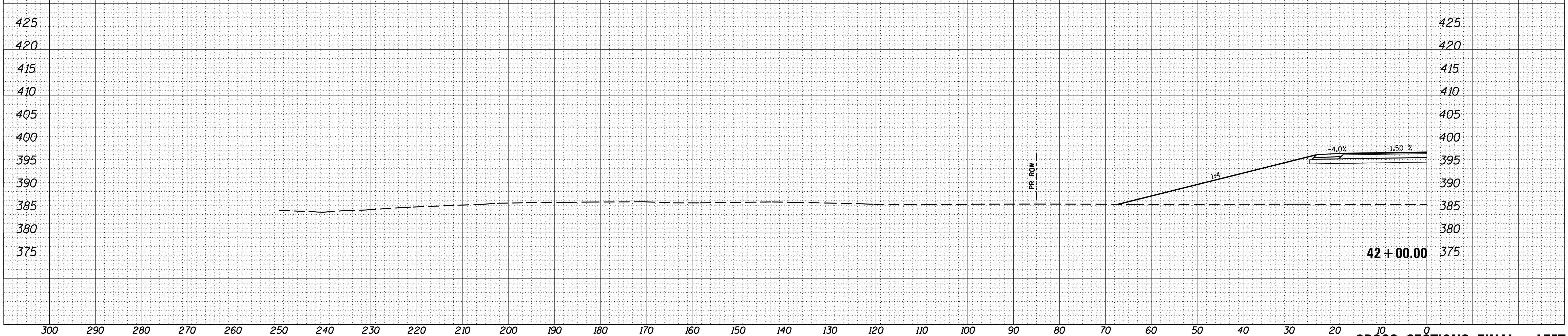

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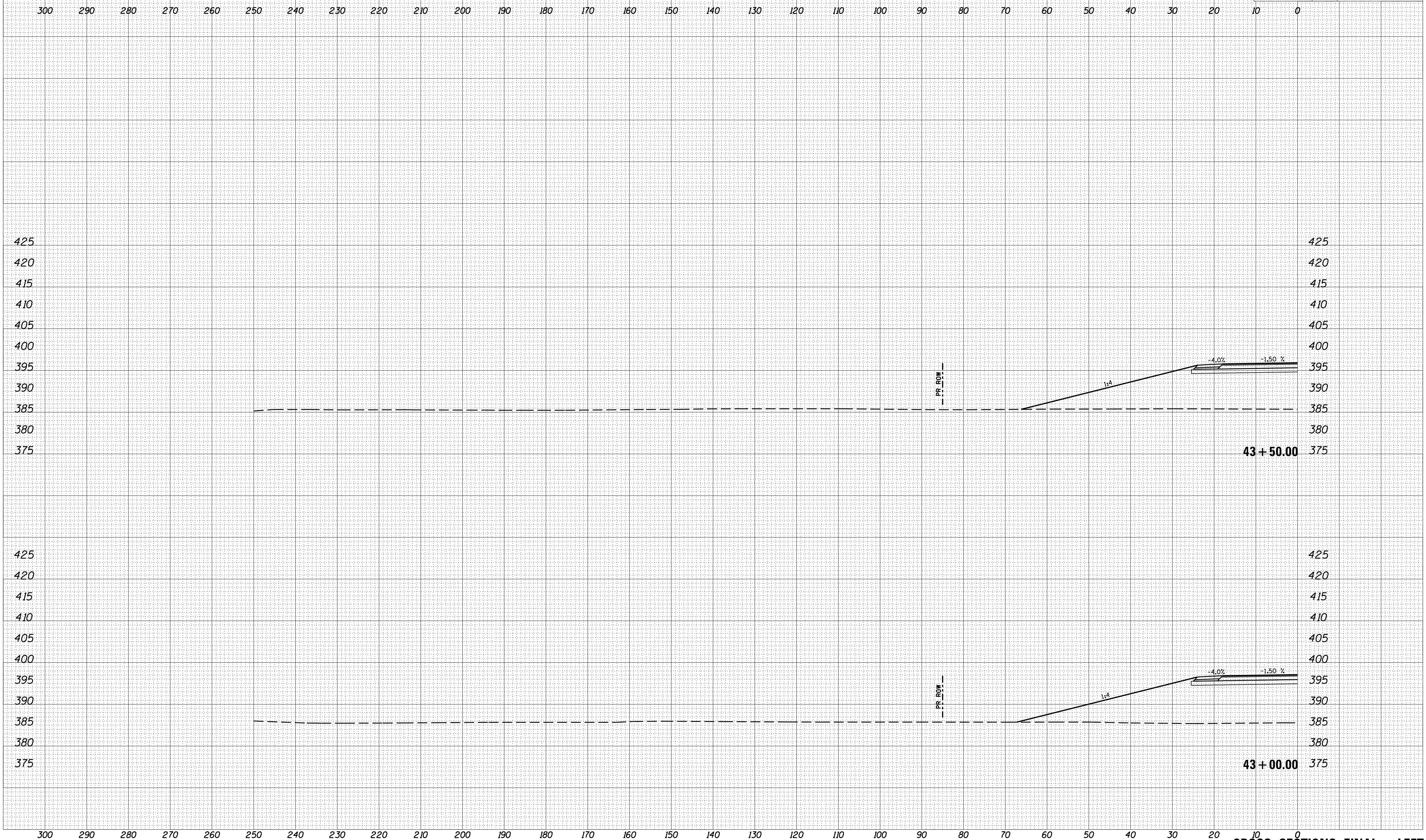
CROSS SECTIONS FINAL – LEFT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	182
STA.		TO STA.		
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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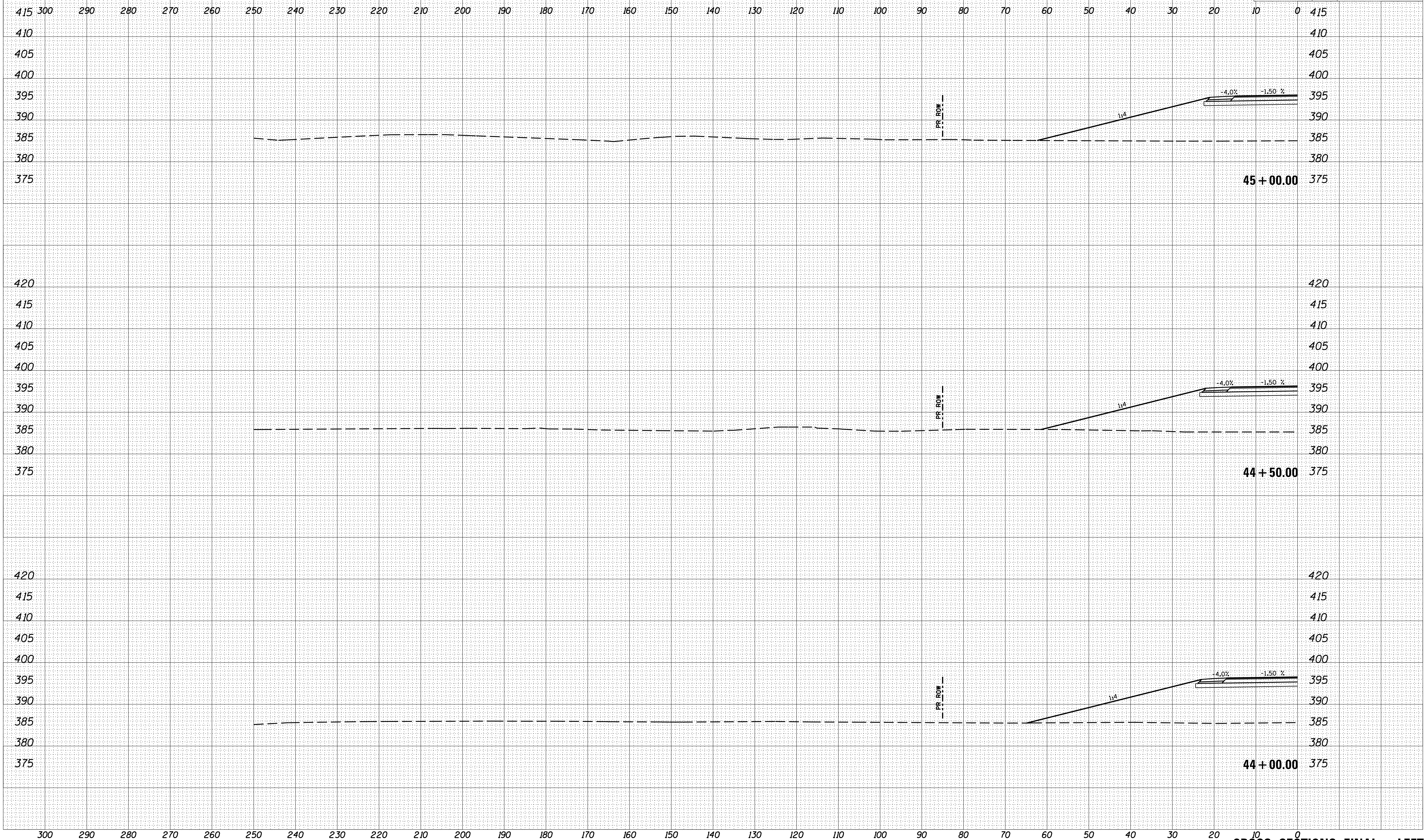
CROSS SECTIONS FINAL – LEFT

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	183
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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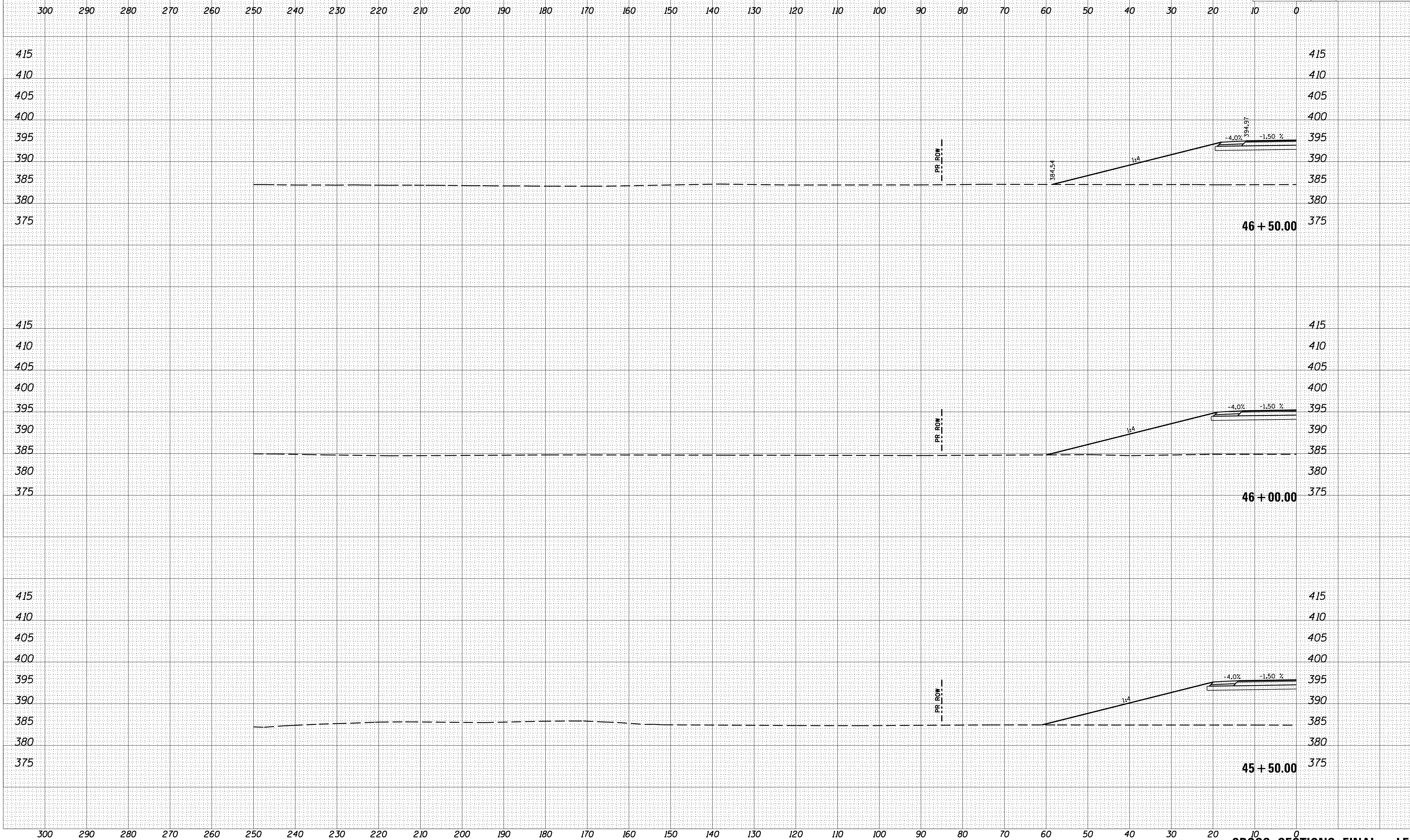
CROSS SECTIONS FINAL – LEFT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	184
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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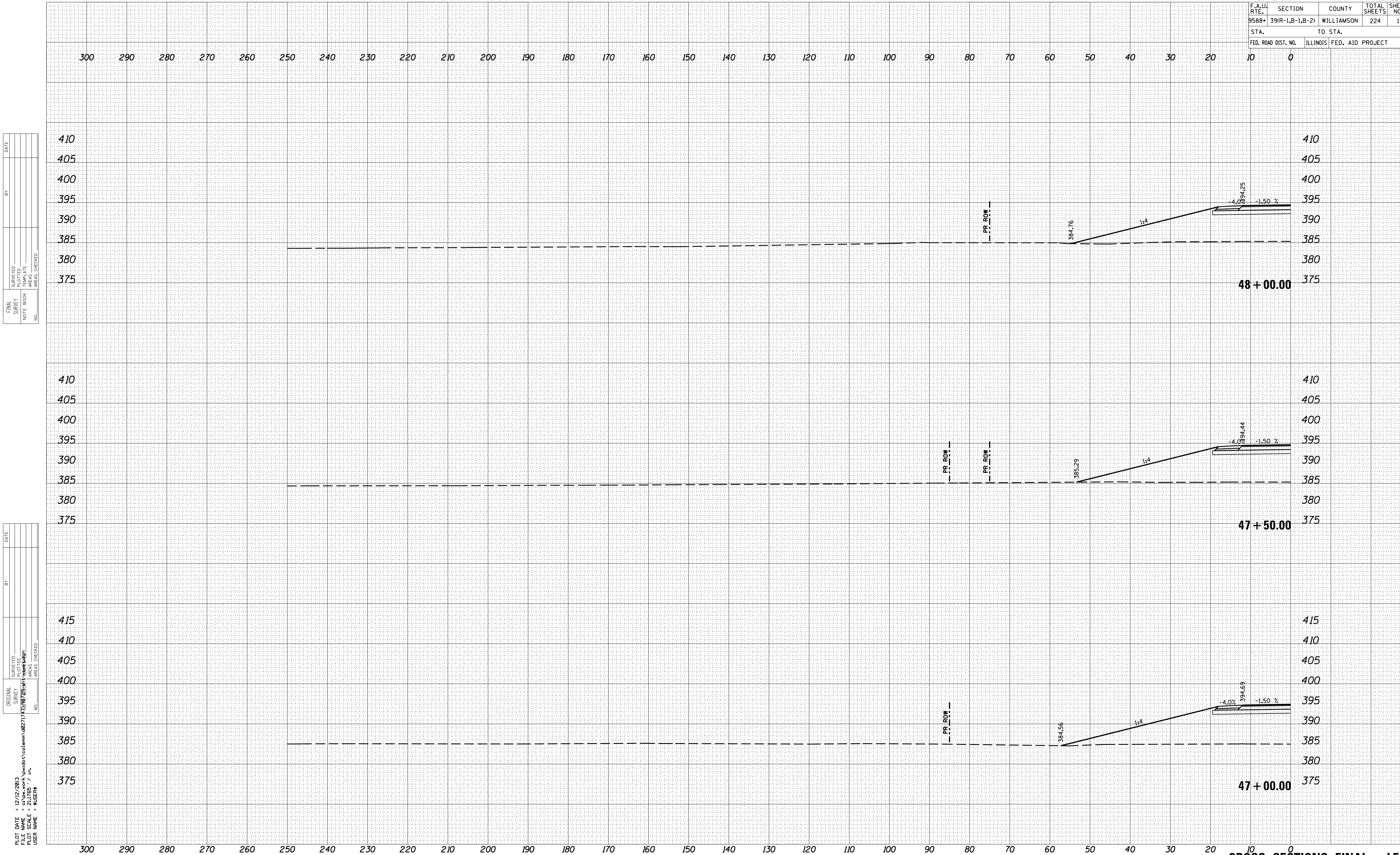
CROSS SECTIONS FINAL – LEFT

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	185
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CROSS SECTIONS FINAL – LEFT

* & FAS 903

CONTRACT NO. 78277

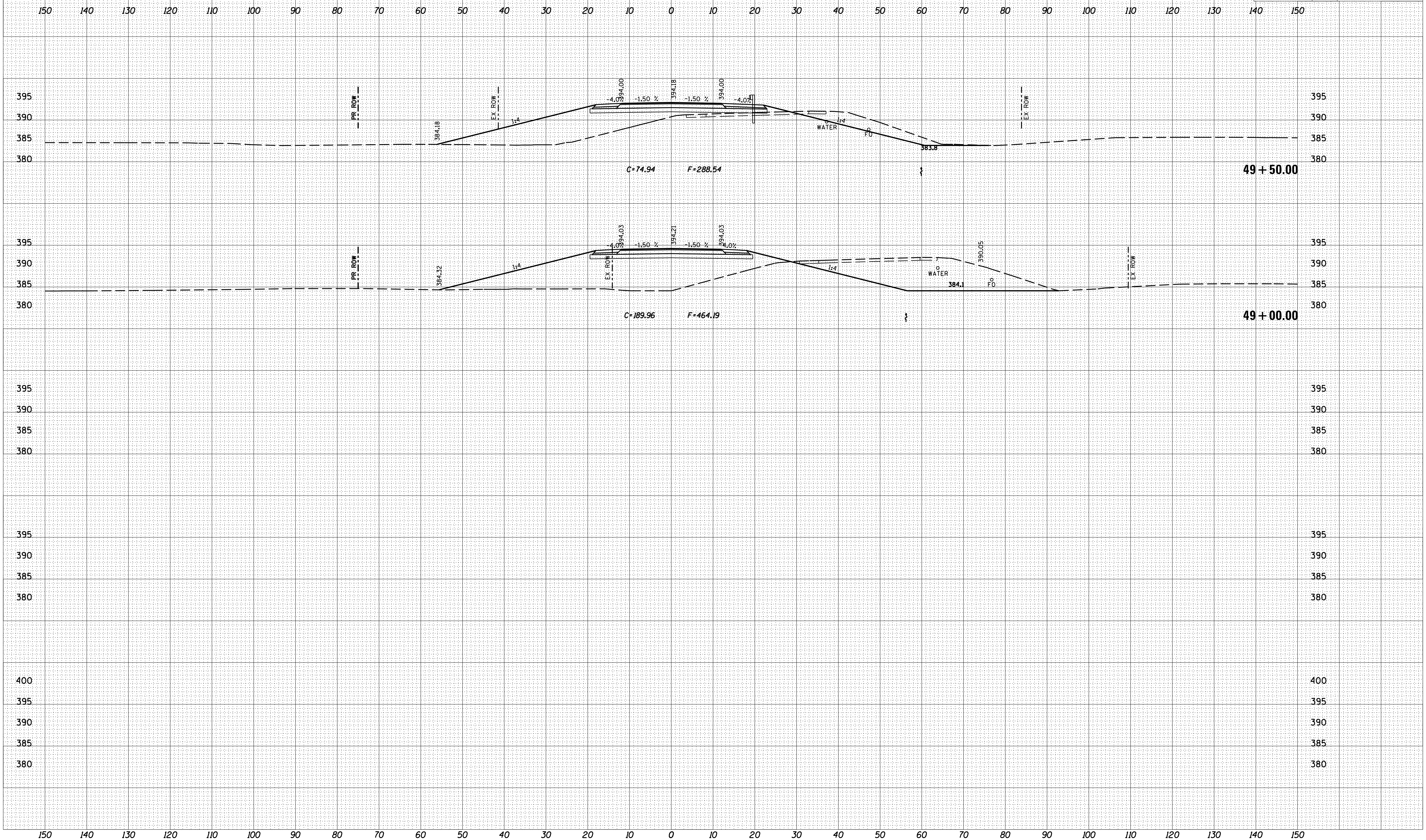
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	186
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CROSS SECTIONS FINAL – LEFT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	187
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

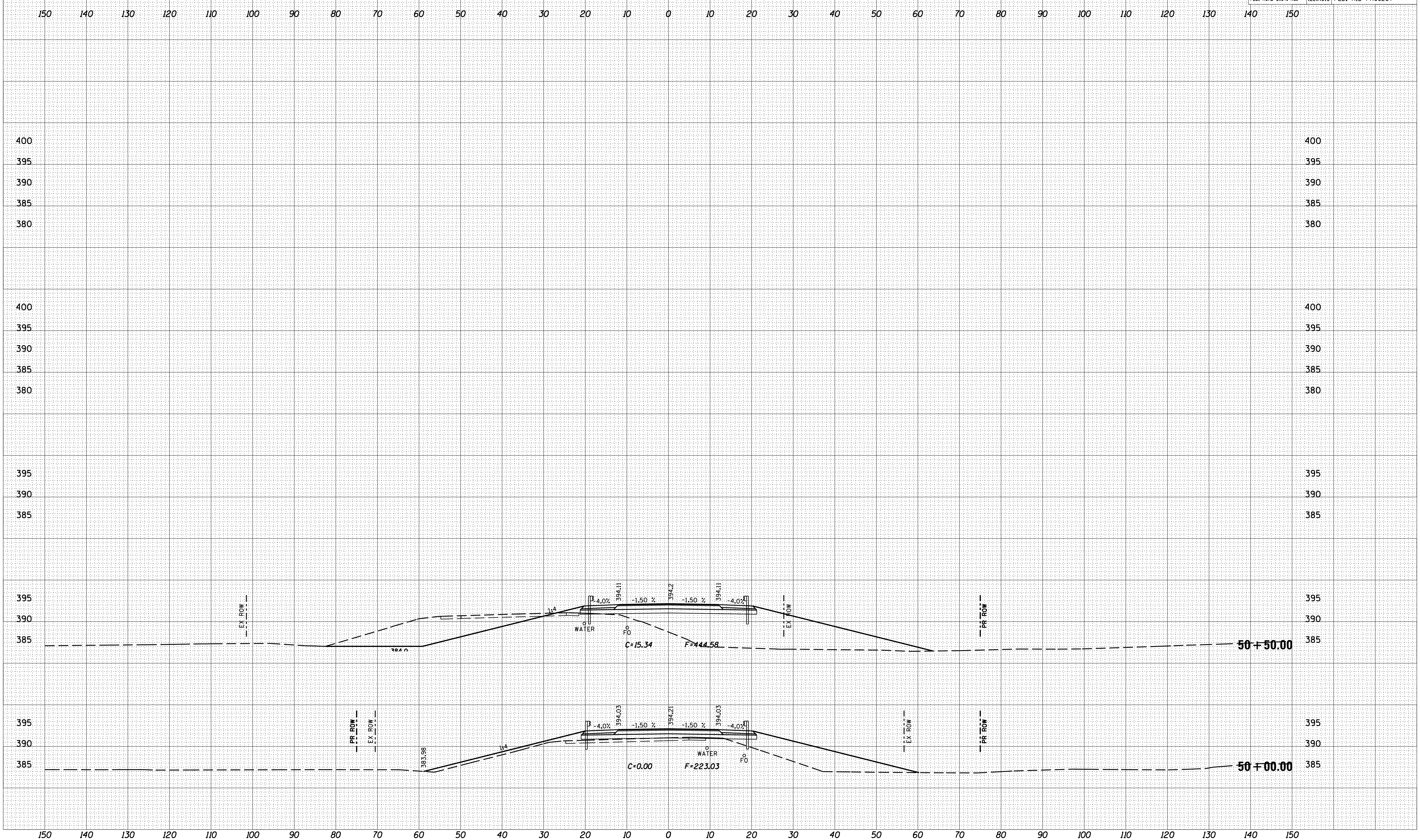


CROSS SECTIONS - FINAL

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	188
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* & FAS 903

CONTRACT NO. 78277



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

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

BY / DATE

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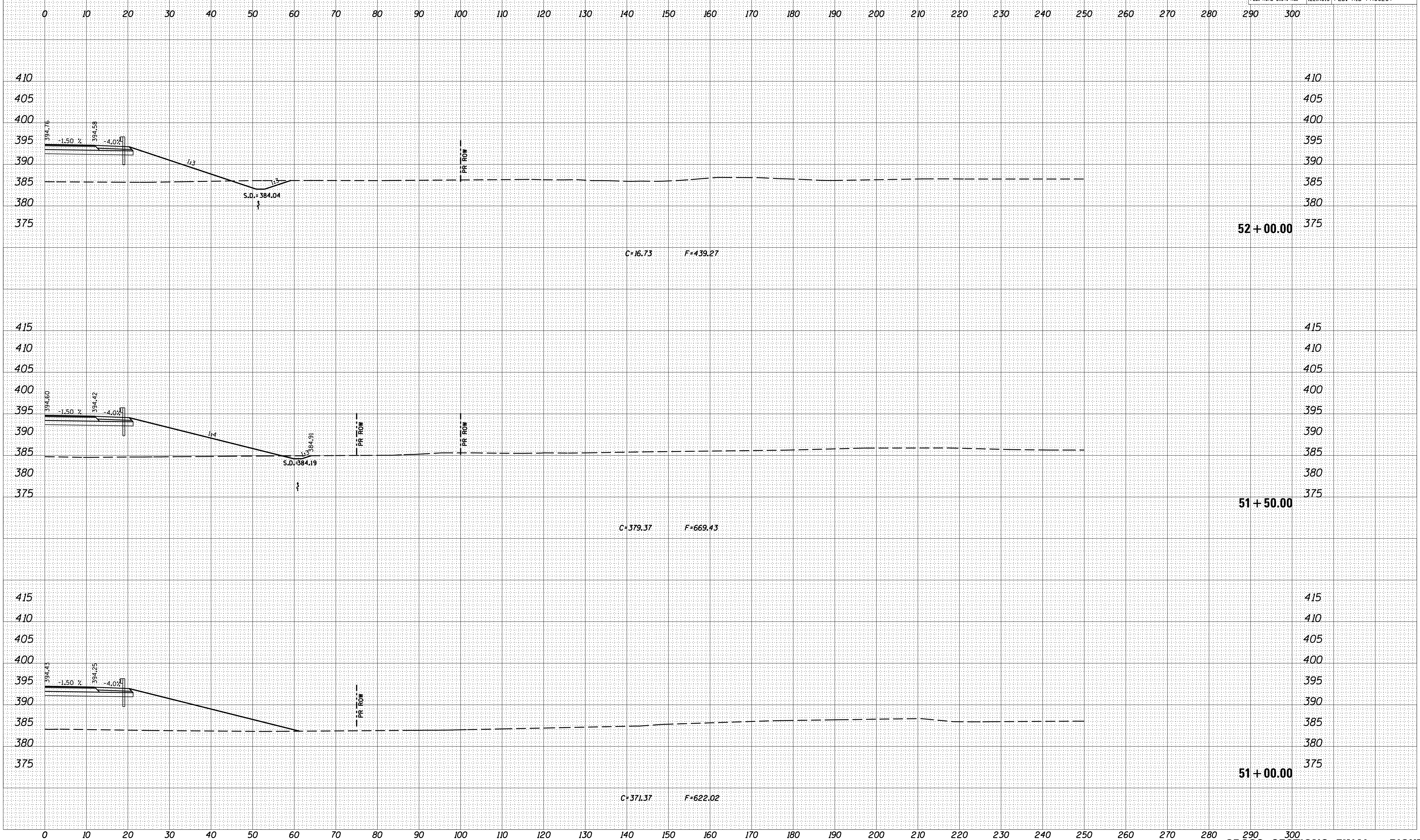
CROSS SECTIONS – FINAL

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	189
STA.		TO STA.		
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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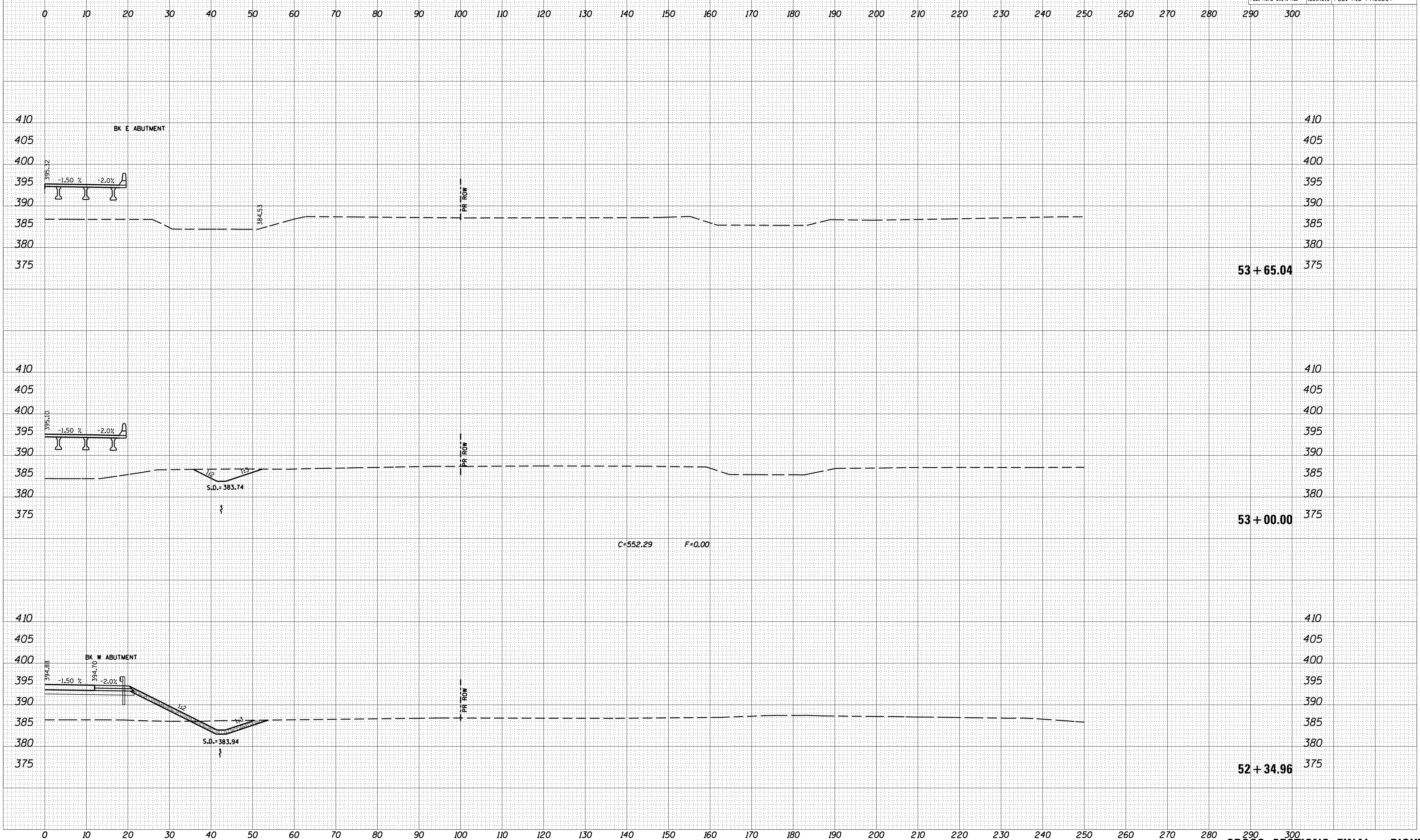
CROSS SECTIONS FINAL – RIGHT

• & FAS 903 | CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	190
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

ORIGINAL SURVEY | NO. | SURVEYED | PLOTTED | AREAS | AREAS CHECKED | BY | DATE

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CROSS SECTIONS FINAL – RIGHT

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	191
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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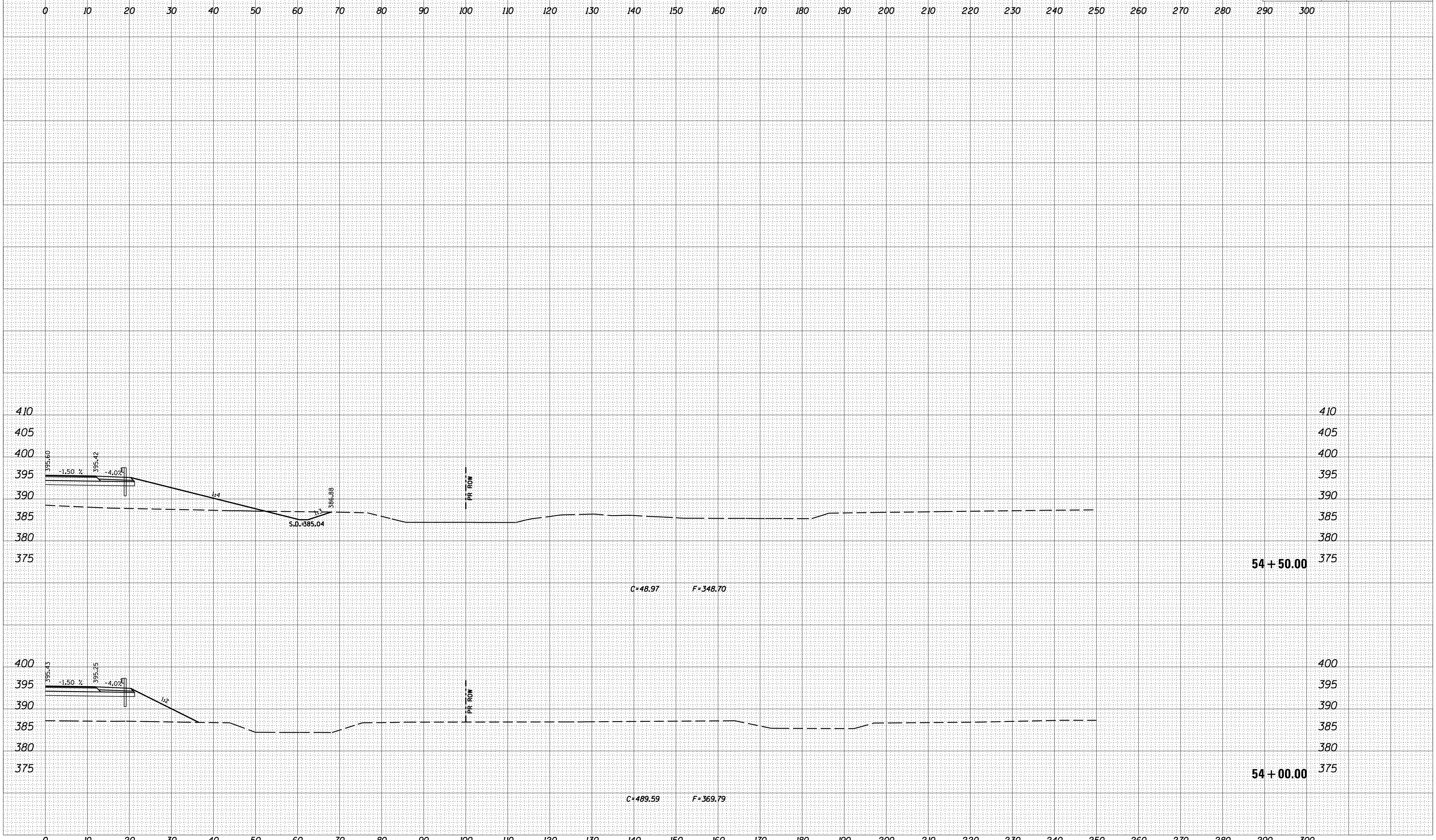

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CROSS SECTIONS FINAL – RIGHT

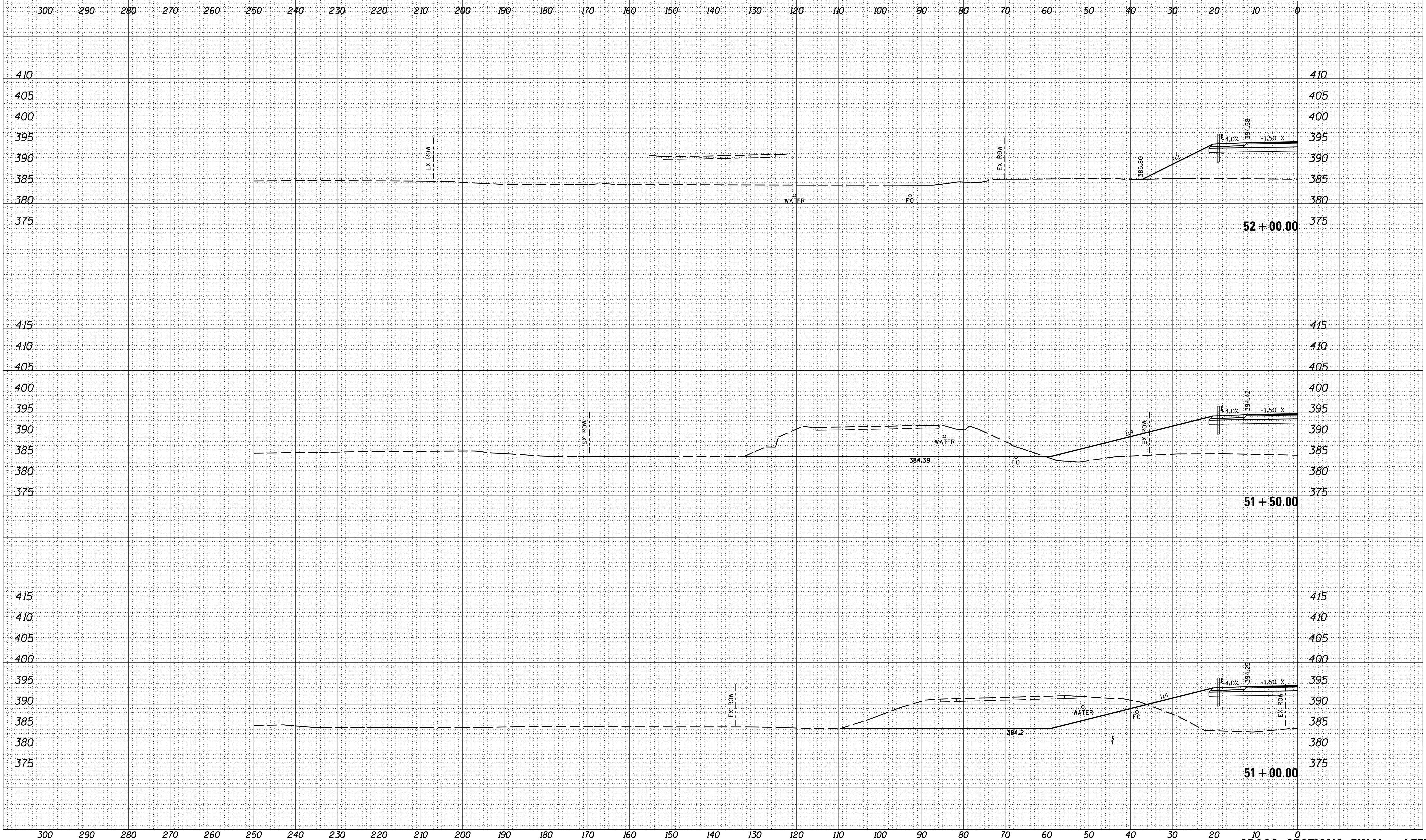
• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	192
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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



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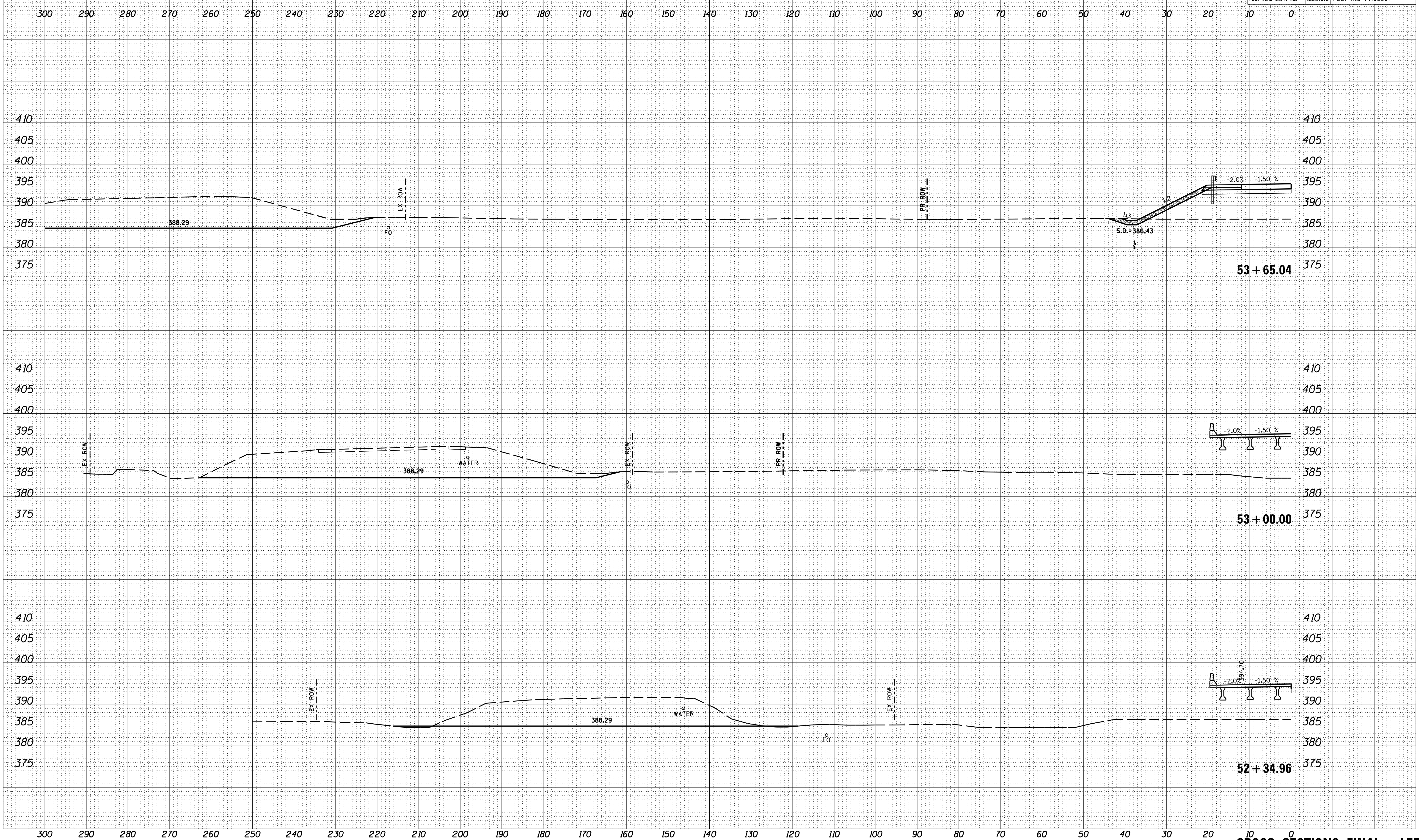
CROSS SECTIONS FINAL – LEFT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	193
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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

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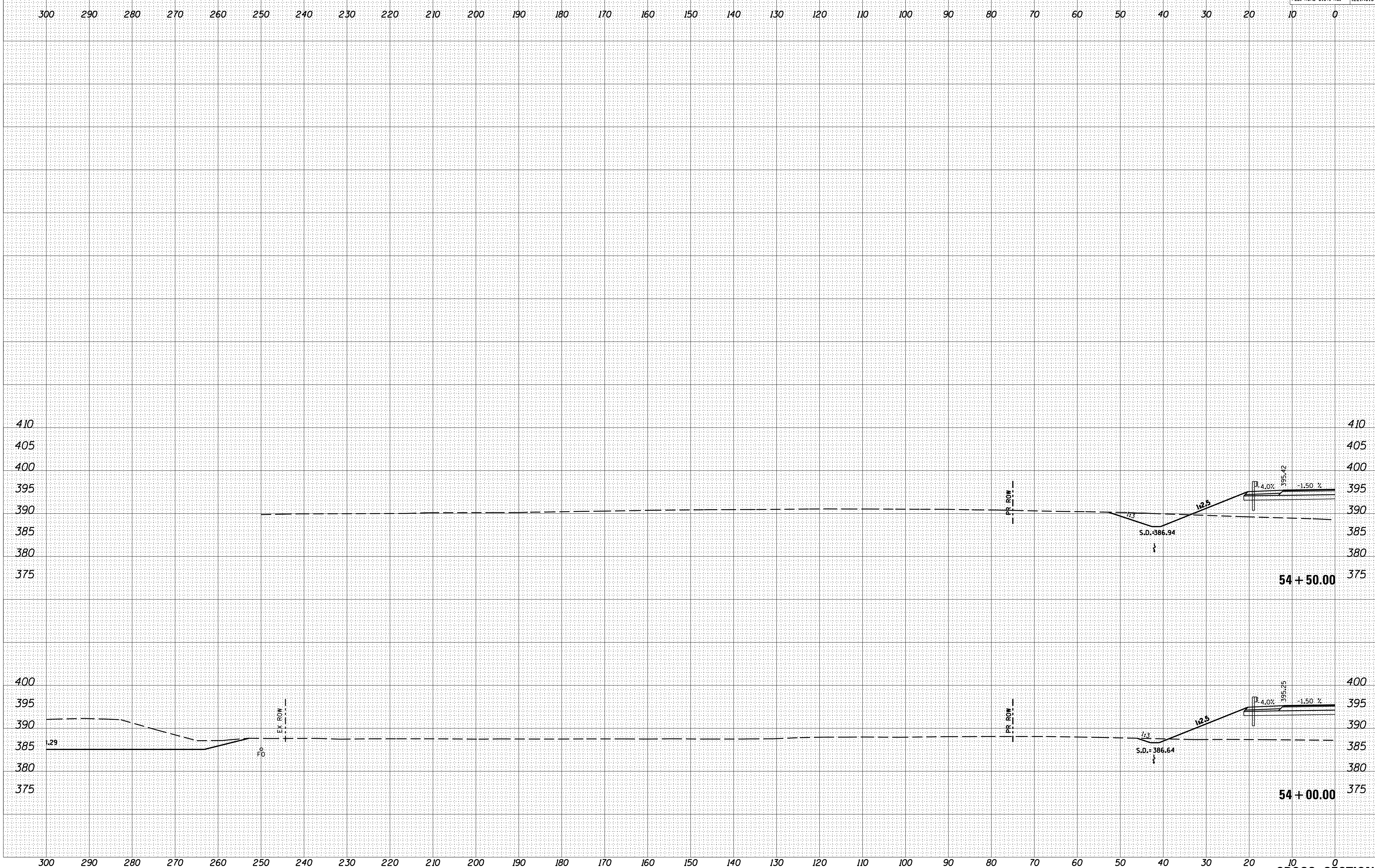
CROSS SECTIONS FINAL – LEFT

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	194
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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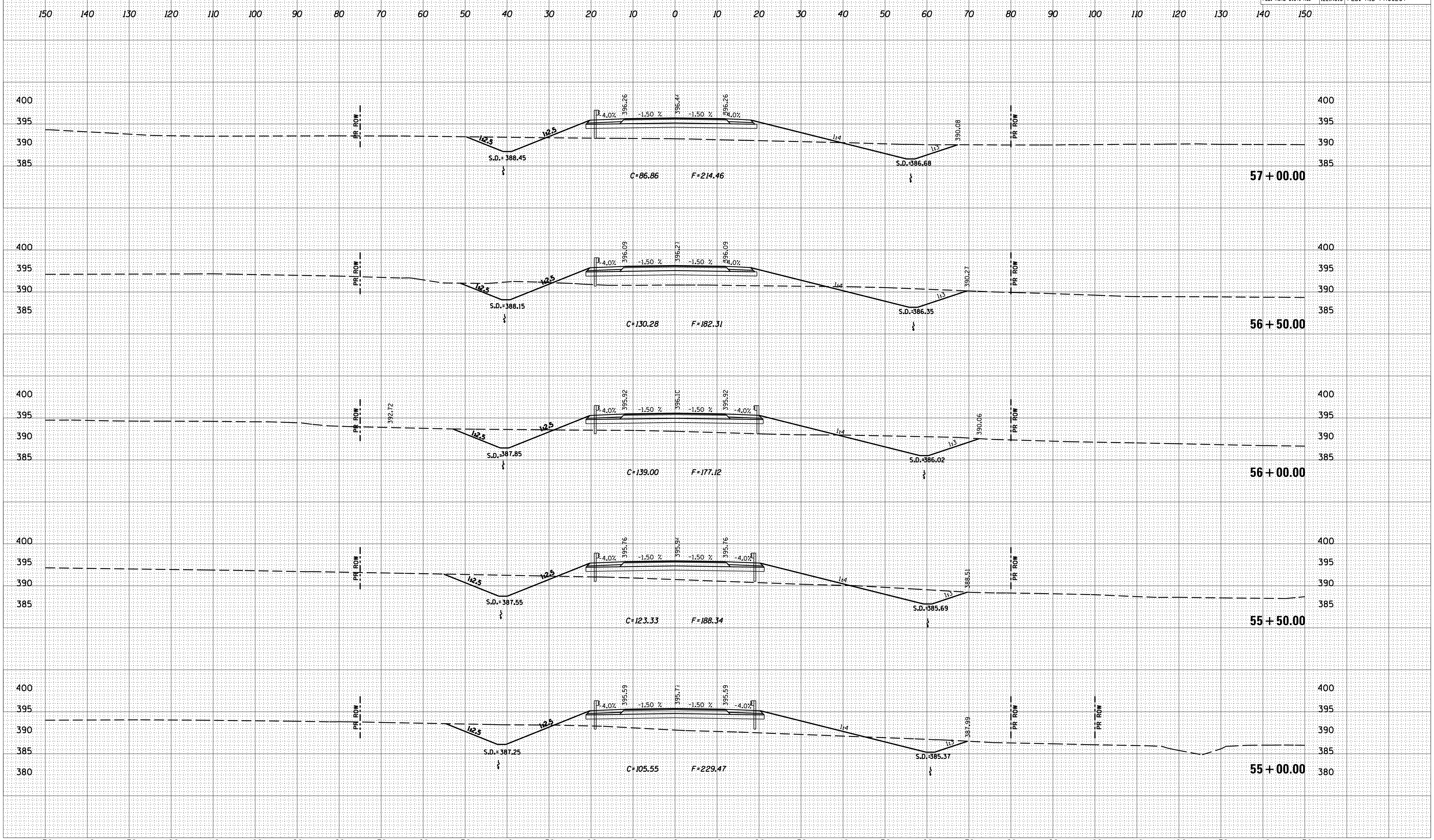
CROSS SECTIONS FINAL – LEFT

* & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588*	39(R-1,B-1,B-2)	WILLIAMSON	224	195
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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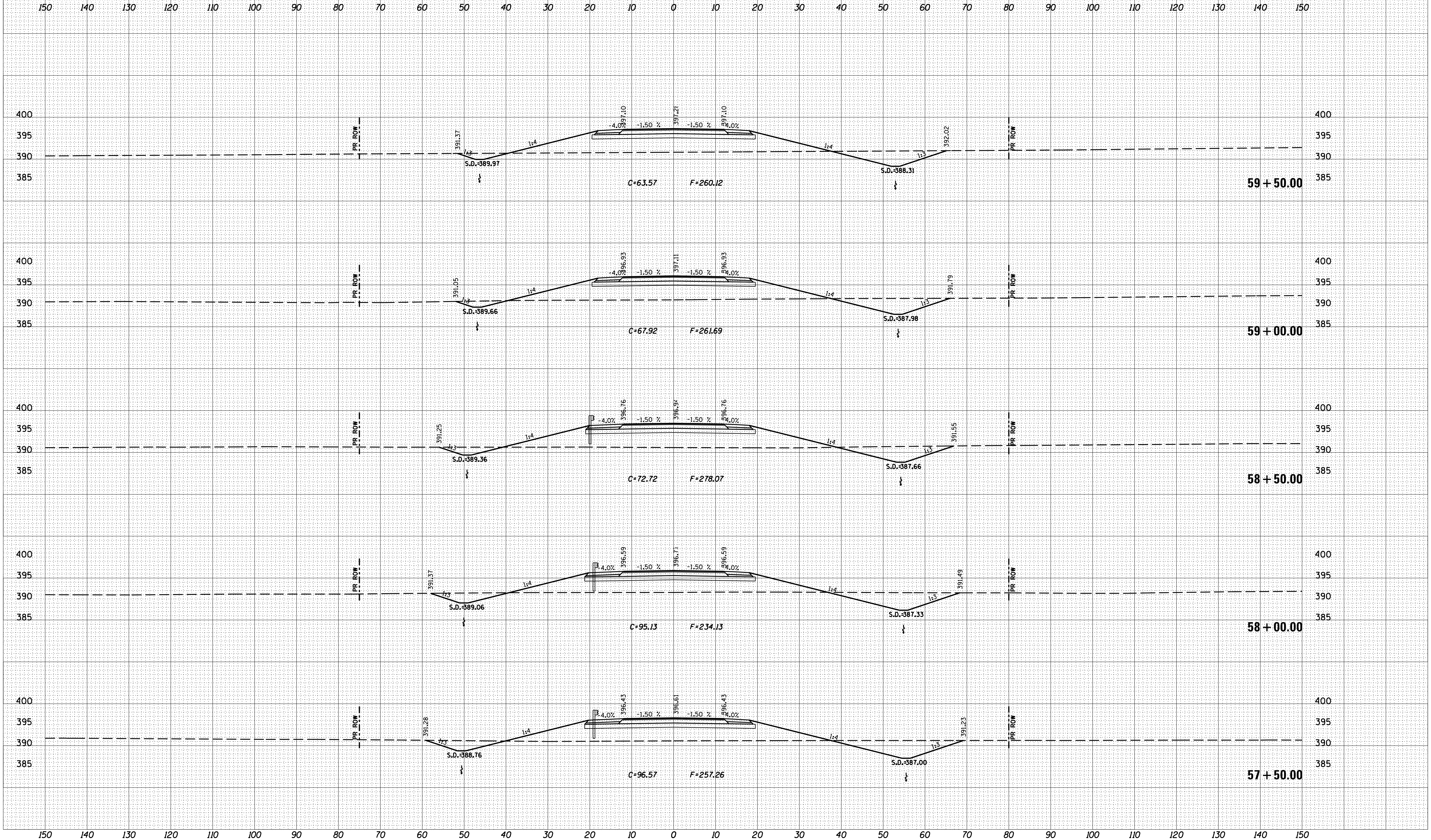
CROSS SECTIONS – FINAL

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	196
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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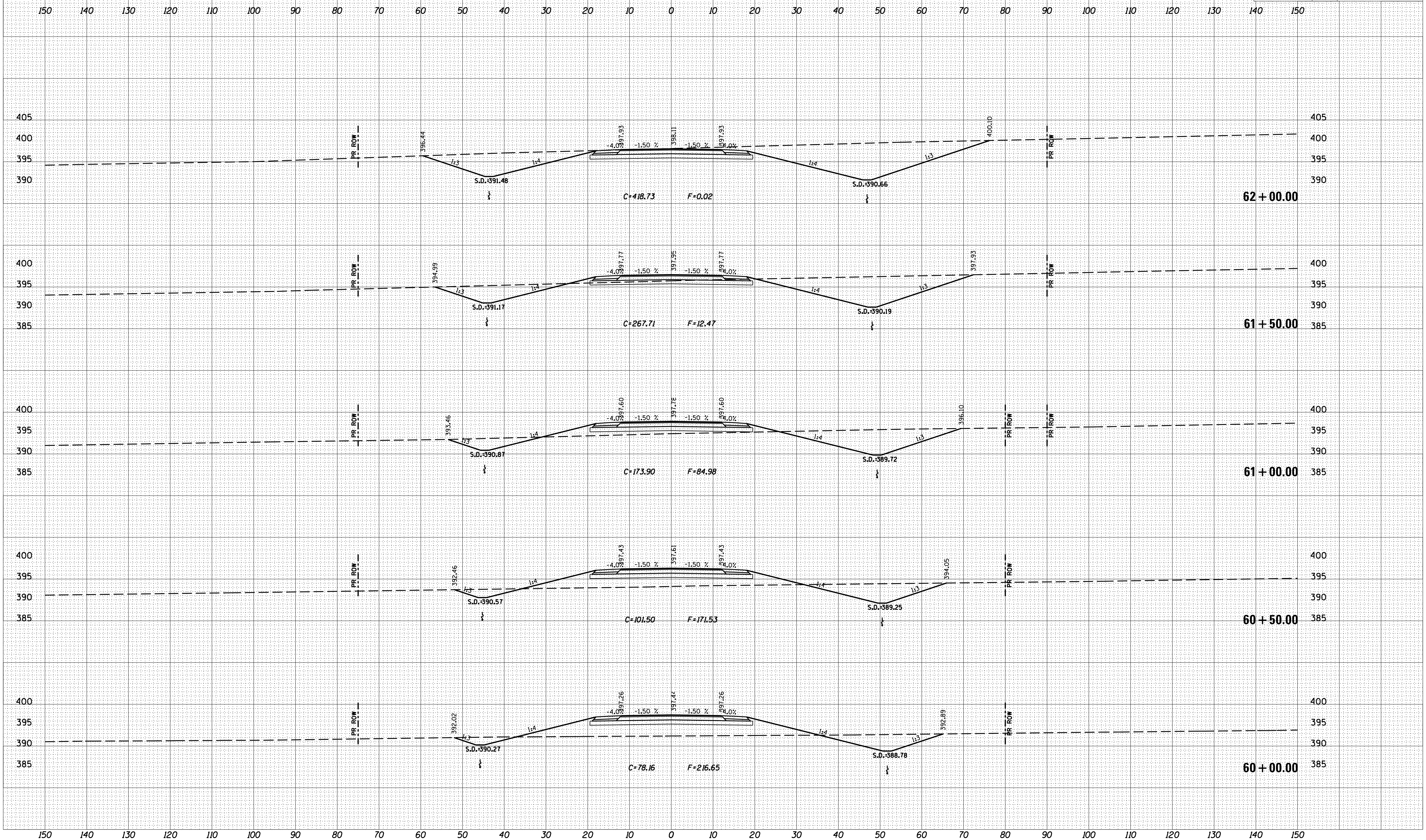
CROSS SECTIONS – FINAL

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	197
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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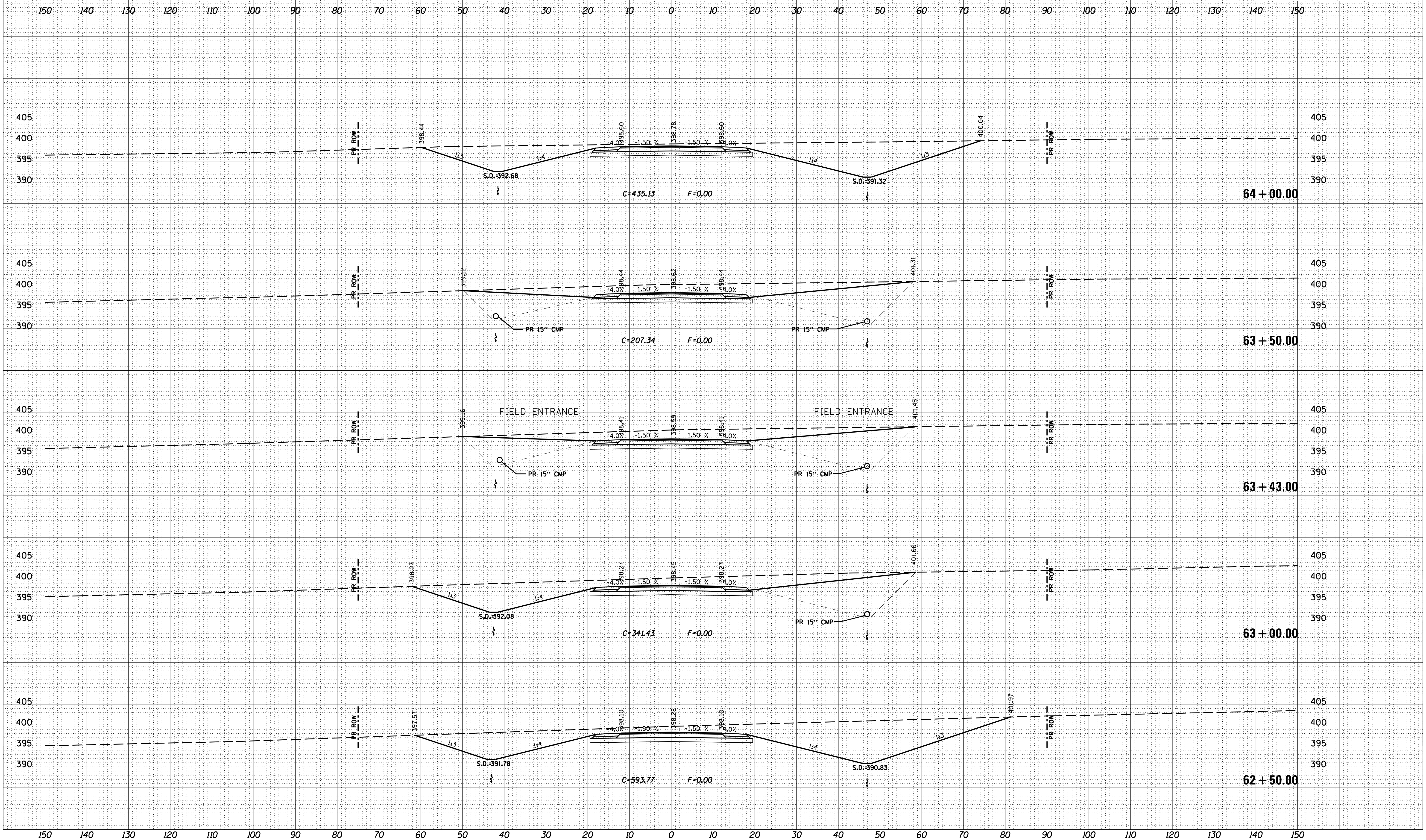
CROSS SECTIONS – FINAL

• & FAS 903 **CONTRACT NO.** 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	198
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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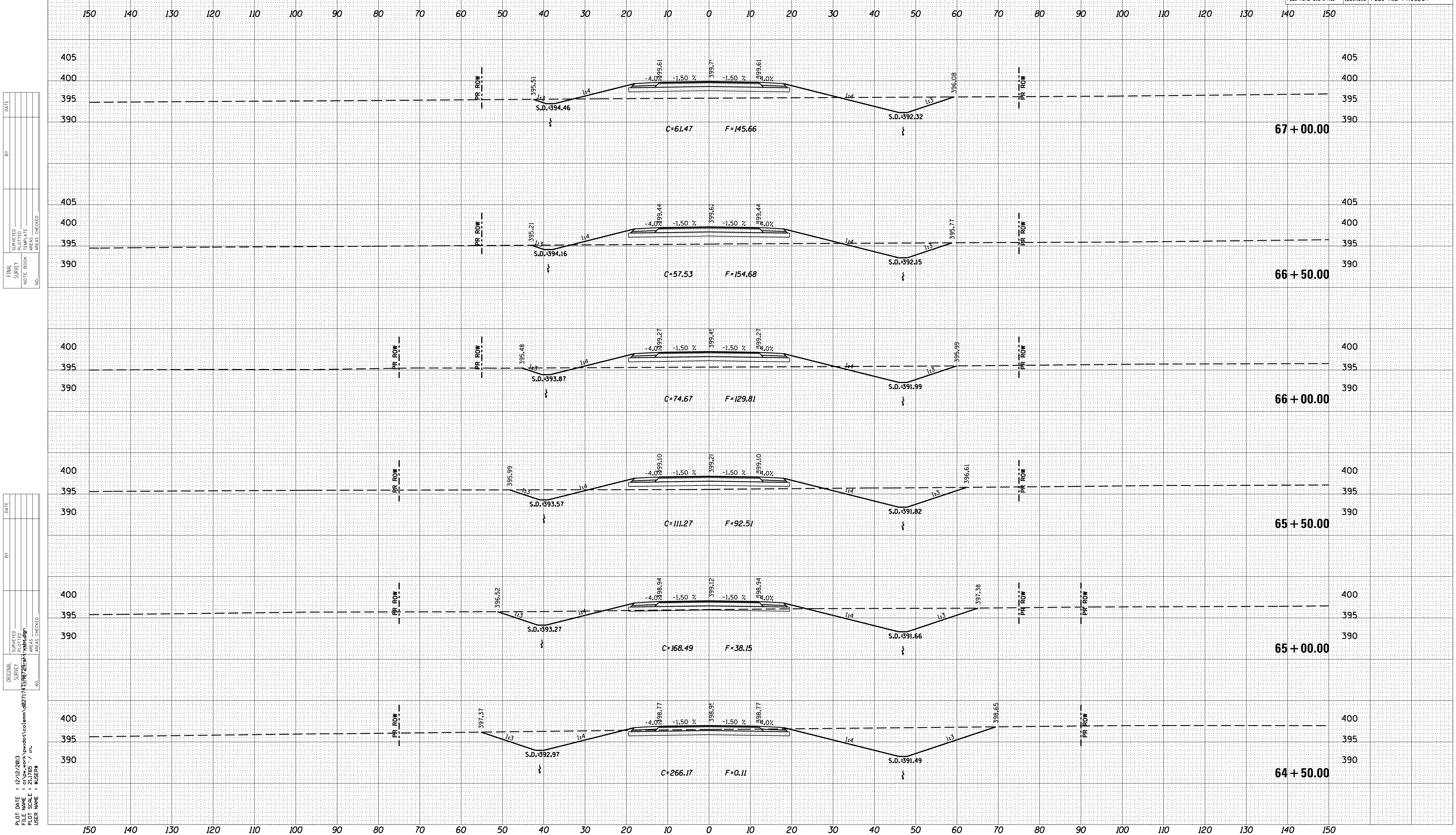
CROSS SECTIONS – FINAL

• & FAS 903

CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
9588•	39(R-1,B-1,B-2)	WILLIAMSON	224	199
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



CROSS SECTIONS – FINAL

• & FAS 903 CONTRACT NO. 78277

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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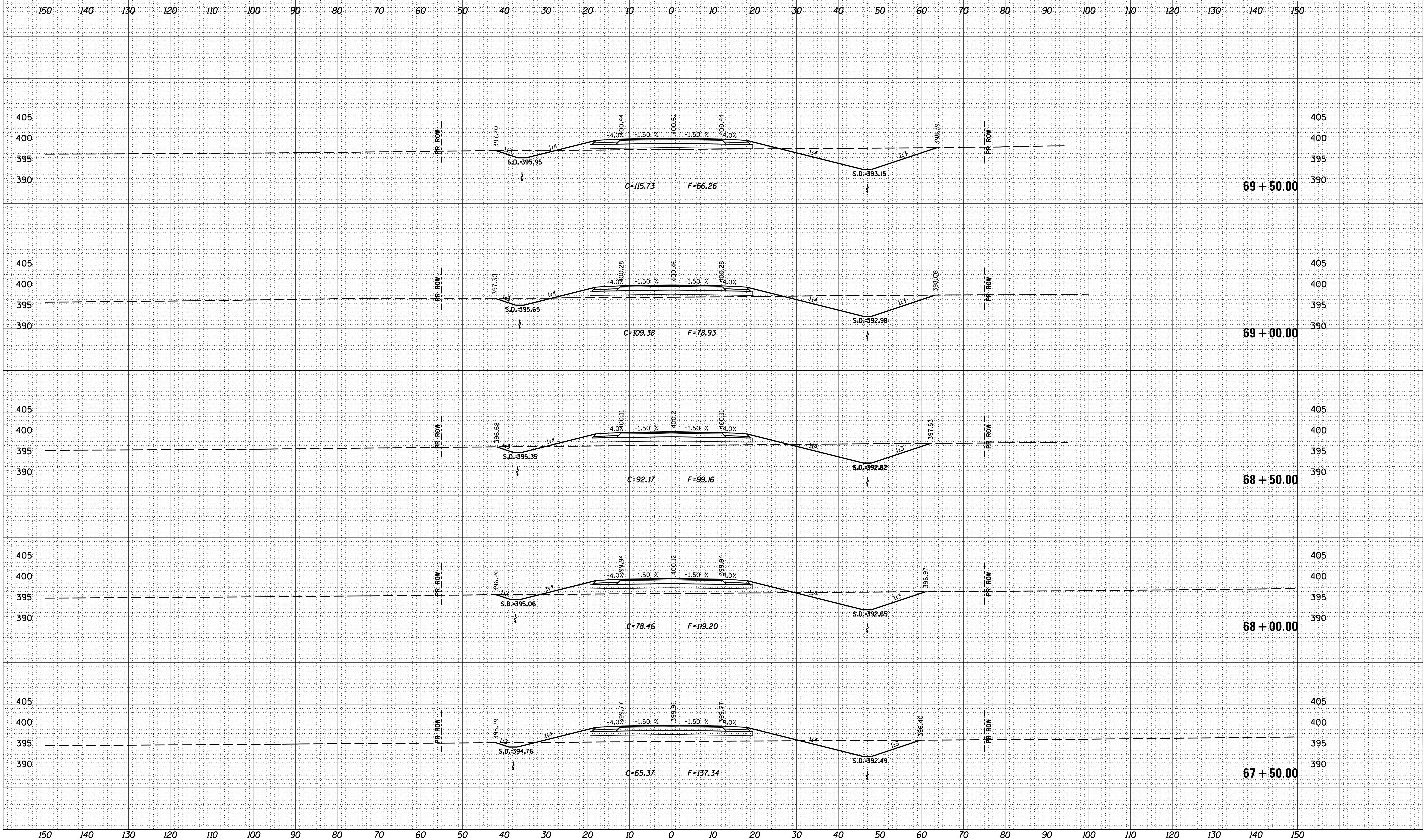
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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

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CROSS SECTIONS – FINAL