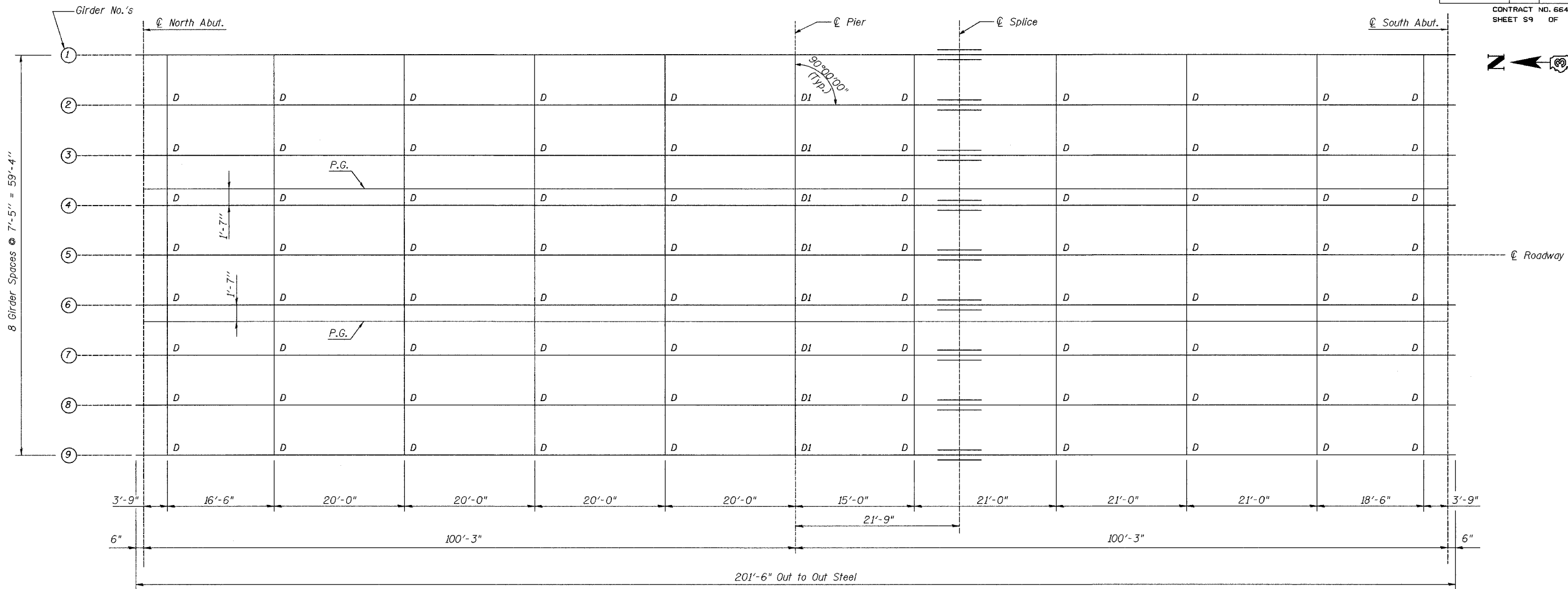
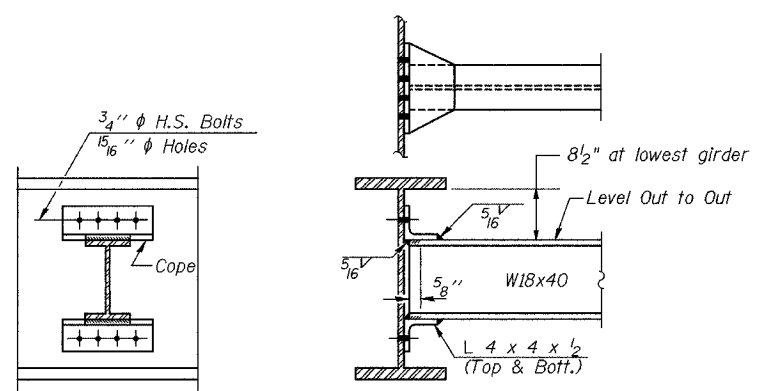


F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	32-2 HBR	GRUNDY	171	102
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 66412				
SHEET S9 OF S20				

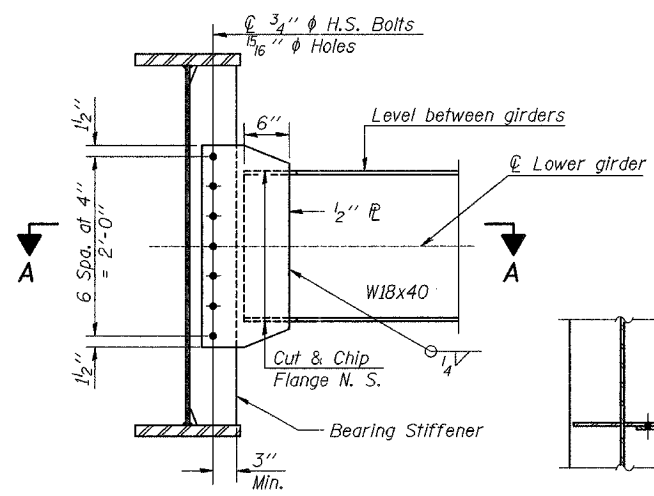


PLAN



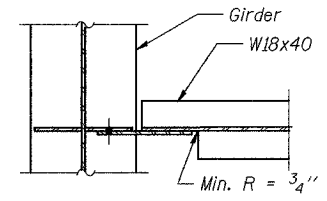
DIAPHRAGM D
80 Required

Note: Two hardened washers shall be required over all oversize holes for diaphragms.



DIAPHRAGM D1
8 Required

Note: Two hardened washers shall be required over all oversized holes.

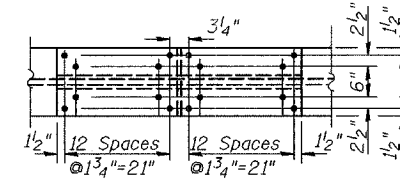
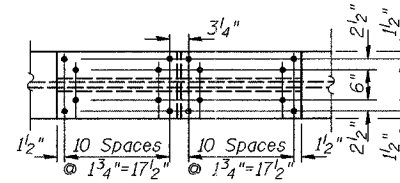
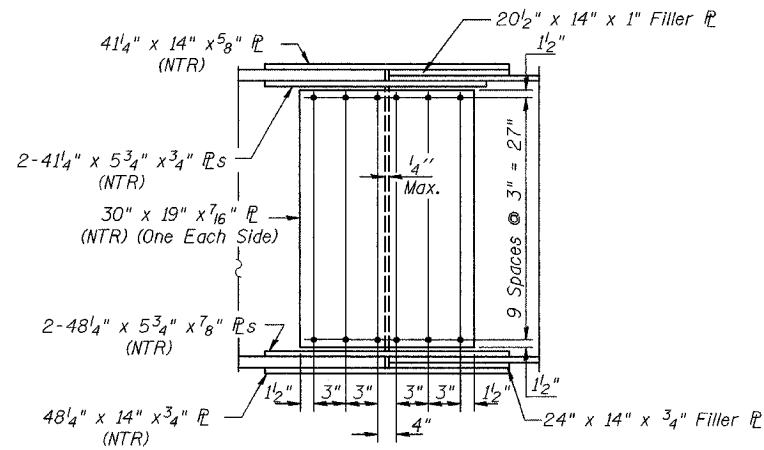
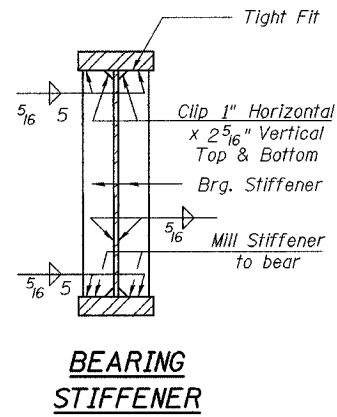


SECTION A-A

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
OVER F.A.I. 80
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
FRAMING PLAN
 SCALE: NONE
 DATE: OCTOBER, 2005
 DRAWN BY: NJH
 CHECKED BY: JLG

Louis Berger & Associates, Inc.
 1001 Elm Street, Suite 300
 Manchester, NH 03101



TOP OF WEB ELEVATIONS

For Fabrication Use Only

Beam Number	℄ Brg. N. Abut.	℄ Brg. Pier	℄ Splice	℄ Brg. S. Abut.
1	633.01	633.15	633.20	633.01
2	633.17	633.31	633.35	633.17
3	633.32	633.46	633.51	633.32
4	633.47	633.61	633.66	633.47
5	633.59	633.73	633.77	633.59
6	633.47	633.61	633.66	633.47
7	633.32	633.46	633.51	633.32
8	633.17	633.31	633.35	633.17
9	633.01	633.15	633.20	633.01

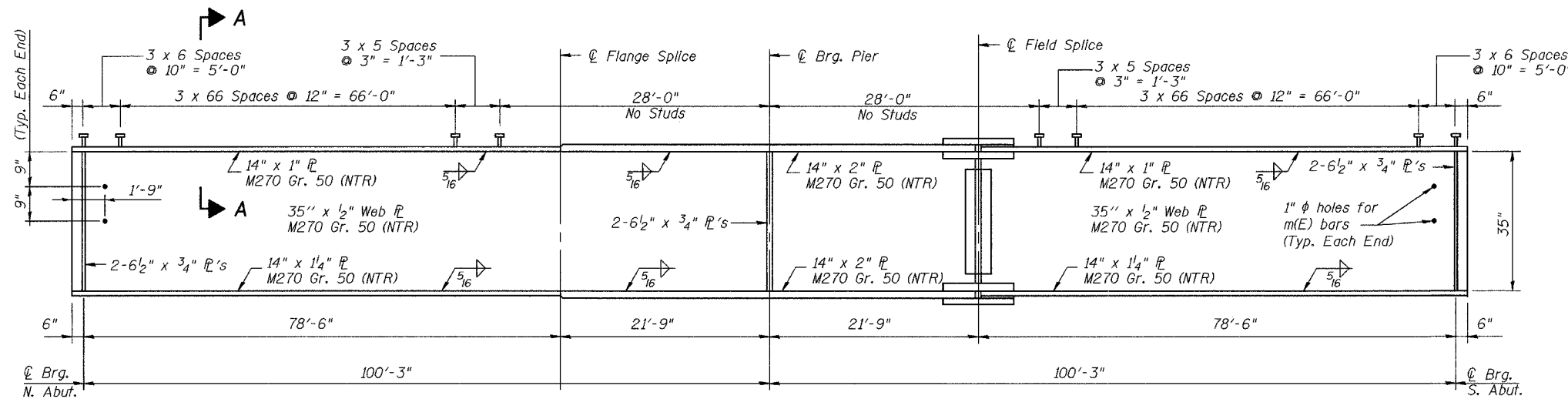
INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. #1	Pier
Is	(in ⁴) 11,988	20,971
Ic (n)	(in ⁴) 28,073	
Ic (3n)	(in ⁴) 21,092	
Ss	(in ³) 688	1,075
Sc (n)	(in ³) 889	
Sc (3n)	(in ³) 827	
Z	(in ³)	1,189
φ	(K/ft.) 0.907	1.464
M℄	(K) 572	1,950
s℄	(K/ft.) 0.465	
Ms℄	(K) 327	
M℄	(K) 851	717
M (Imp)	(K) 189	159
S ₃ (M℄+I)	(K) 1,734	1,460
Ma	(K) 3,424	4,432
Mu	(K) 4,408	5,013
fs℄ non-comp(k.s.i.)	10.0	21.8
fs℄ (comp) (k.s.i.)	4.7	
fs ⁵ / ₂ (℄+I) (k.s.i.)	23.4	16.3
fs (Overload) (k.s.i.)	38.1	38.0
fs (Total) (k.s.i.)	49.6	49.5
VR	(K) 49.0	

INTERIOR GIRDER REACTION TABLE

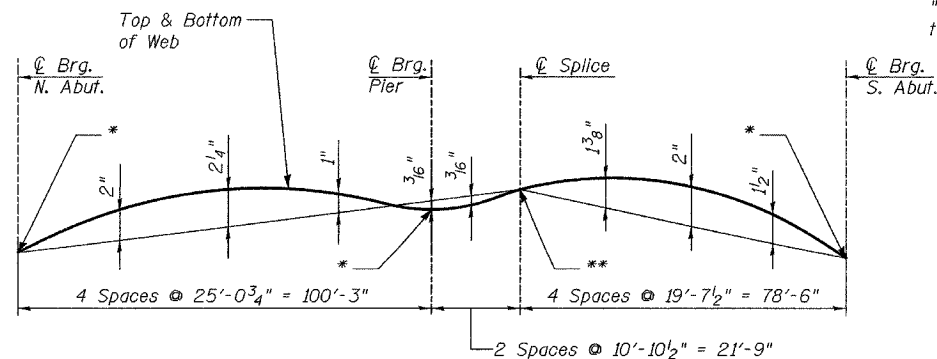
	Abut.	Pier
R℄	(K) 50.34	178.47
R℄	(K) 47.94	70.78
Imp.	(K) 10.64	15.71
R (Total)	(K) 108.92	264.96

* Compact, Braced Section.
Is and Ss are the moment of inertia and section modulus of the steel section used in computing fs (Total & Overload).
Ic (n) and Sc (n) are the moment of inertia and section modulus of the composite section used in computing stresses due to live load for fs (Total & Overload).
Ic (3n) and Sc (3n) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads for fs (Total and Overload).
VR is the maximum Live Load + Impact shear range in the composite portion of the span.
Z is the plastic section modulus used to determine the fully plastic moments in the non-composite areas.
Ma (Applied Moment) = 1.3[M℄ + Ms℄ + S₃(M℄ + I)].
Mu is the Full Plastic Moment Capacity for the section.
fs (Overload) is the sum of the stresses due to M℄ + Ms℄ + S₃(M℄ + I).
fs (Total) is the sum of the stresses due to 1.3[M℄ + Ms℄ + S₃(M℄ + I)].



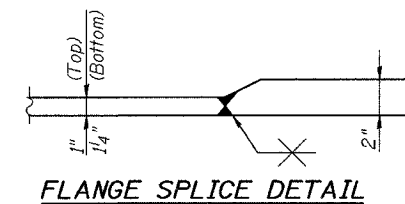
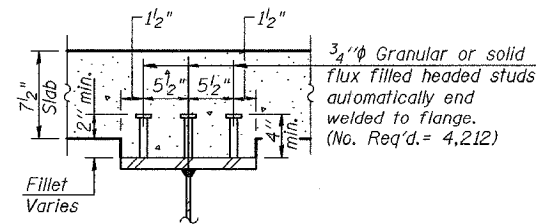
GIRDER ELEVATION

"NTR" denotes plates to which notch toughness requirements are applicable.



CAMBER DIAGRAM

* Final Top of Web Elevations
** Theoretical Elevations Before Dead Load Deflections



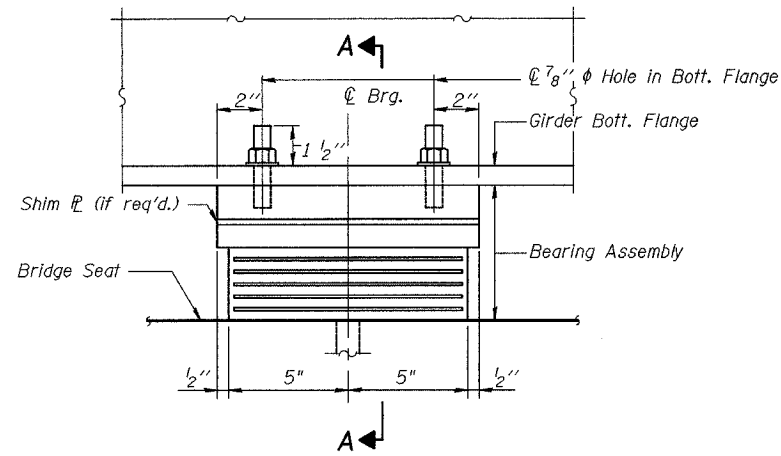
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1001 Elm Street, Suite 300
Manchester, NH 03101

REVISIONS	NAME	DATE

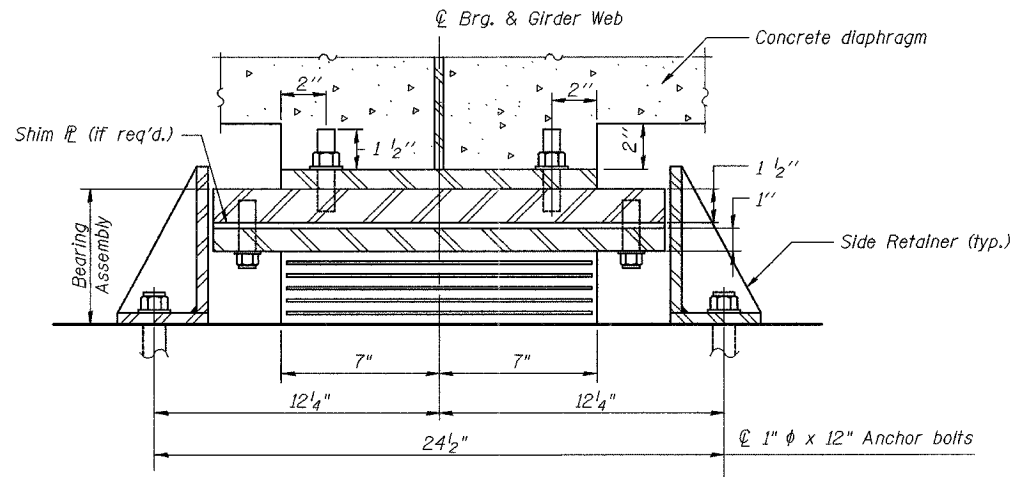
ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
OVER F.A.I. 80
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
BEAM DETAILS

SCALE: NONE
DATE: OCTOBER, 2005
DRAWN BY: NJH
CHECKED BY: JLG

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	32-2 HBR	GRUNDY	171	104
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 66412				
SHEET S11 OF S20				

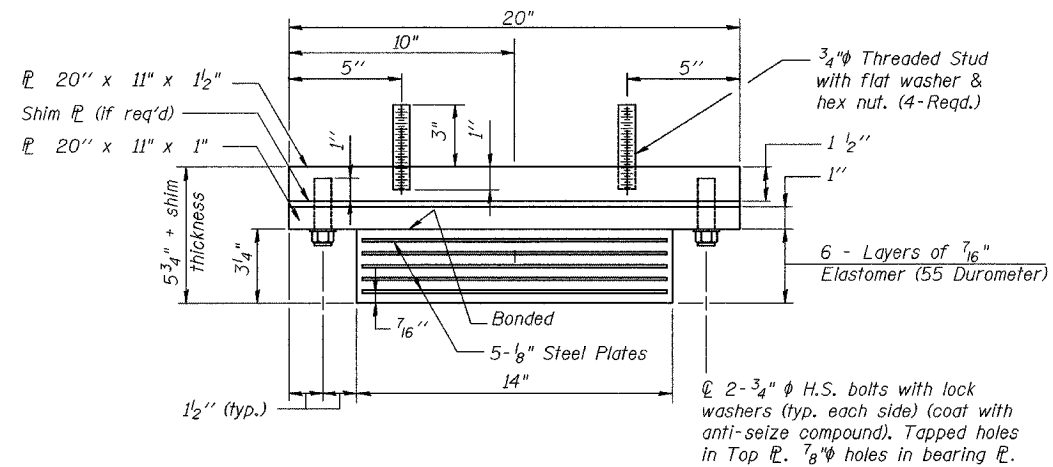


ELEVATION AT ABUTMENT



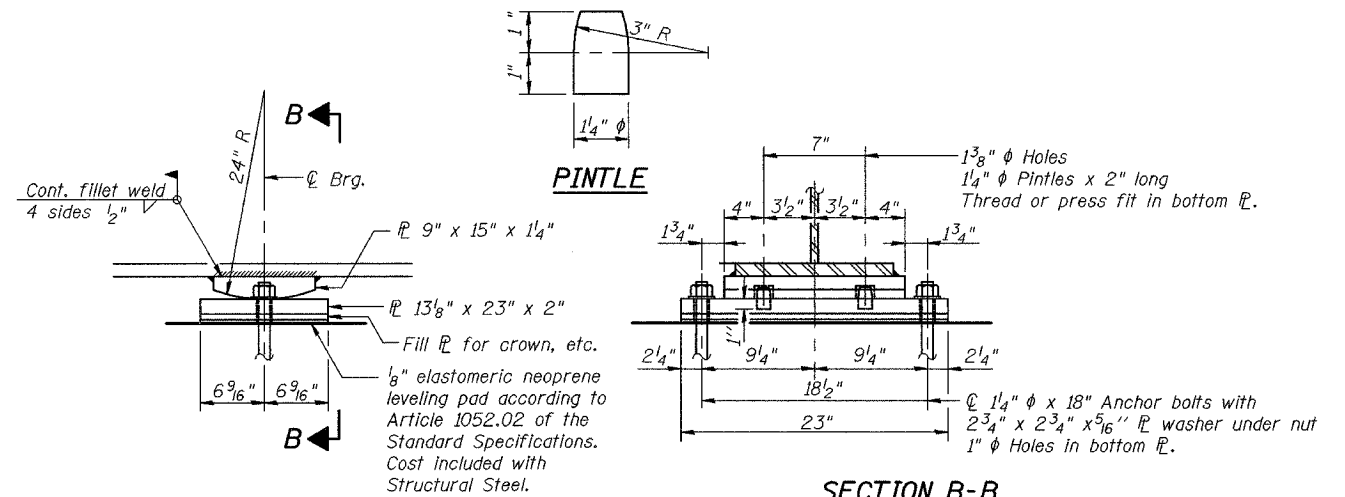
SECTION A-A

TYPE I ELASTOMERIC EXPANSION BEARING



BEARING ASSEMBLY

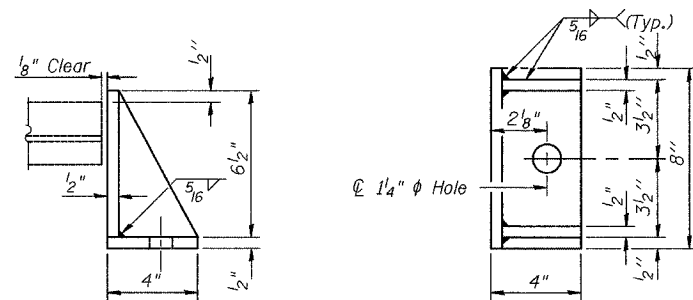
Note: Shim plates shall not be placed under Bearing Assembly.



ELEVATION AT PIER

FIXED BEARING

Notes: Anchor bolts at fixed bearings may be built into the masonry. See Sheet S12 for Anchor Bolt installation.



SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	18

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
OVER F.A.I. 80
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
BEARING DETAILS

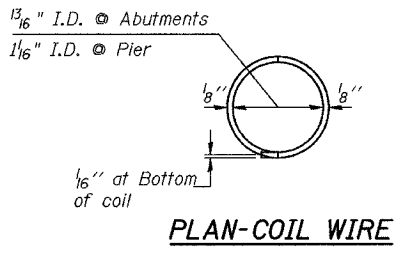
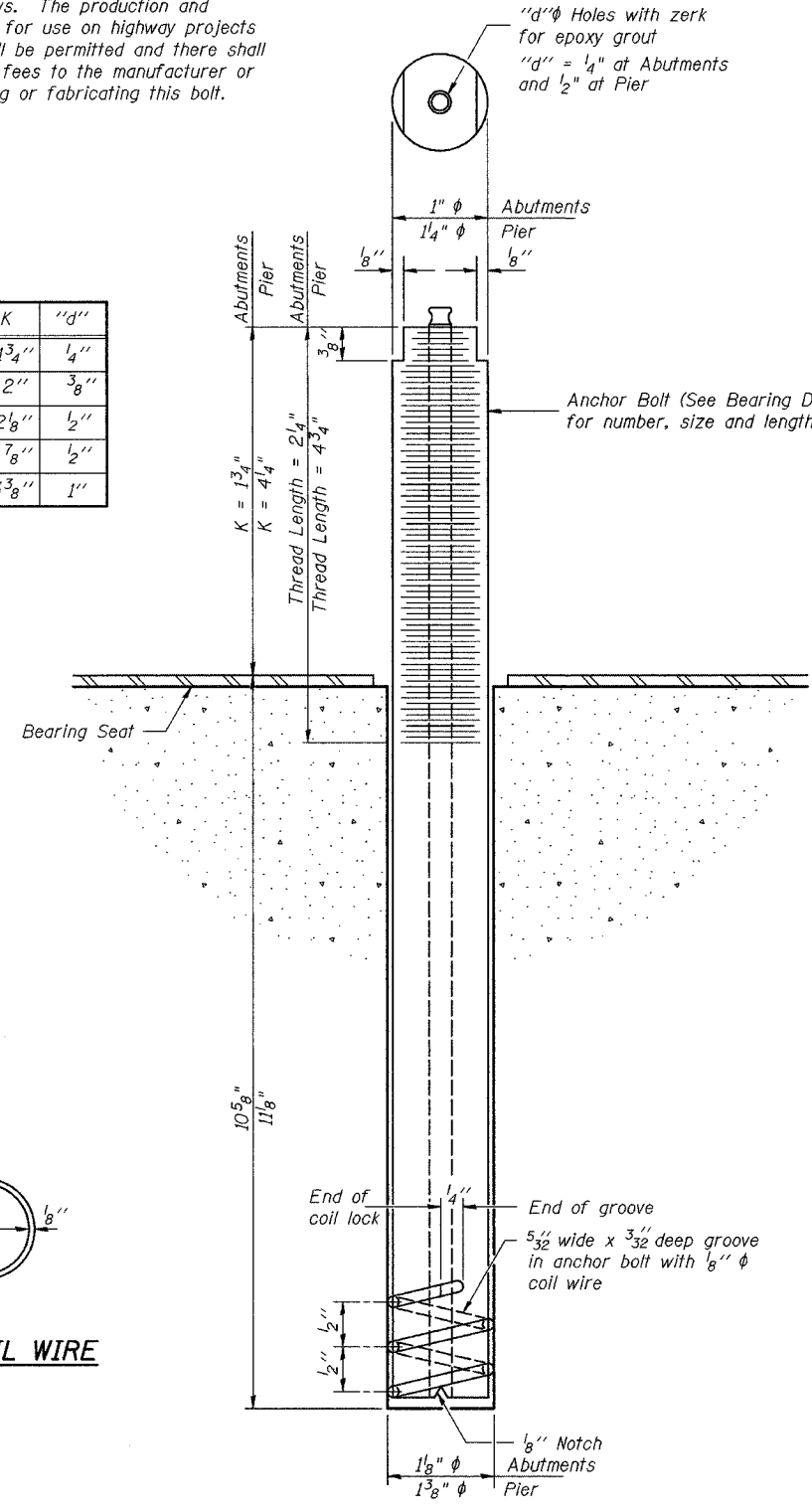
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 Manchester, NH 03101

SCALE: NONE
 DATE: OCTOBER, 2005
 DRAWN BY: NJH
 CHECKED BY: JLG

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	32-2 HBR	GRUNDY	171	105
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66412				
SHEET 512 OF 520				

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



ILLINOIS COIL-LOCK ANCHOR BOLT

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers. The coil wire shall be made of any suitable soft steel wire. The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed. The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade I and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:

1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
N. Abut.	A307
Pier	A307
S. Abut.	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted. Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming. The anchor bolts, furnished and installed including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.

REVISIONS	NAME	DATE

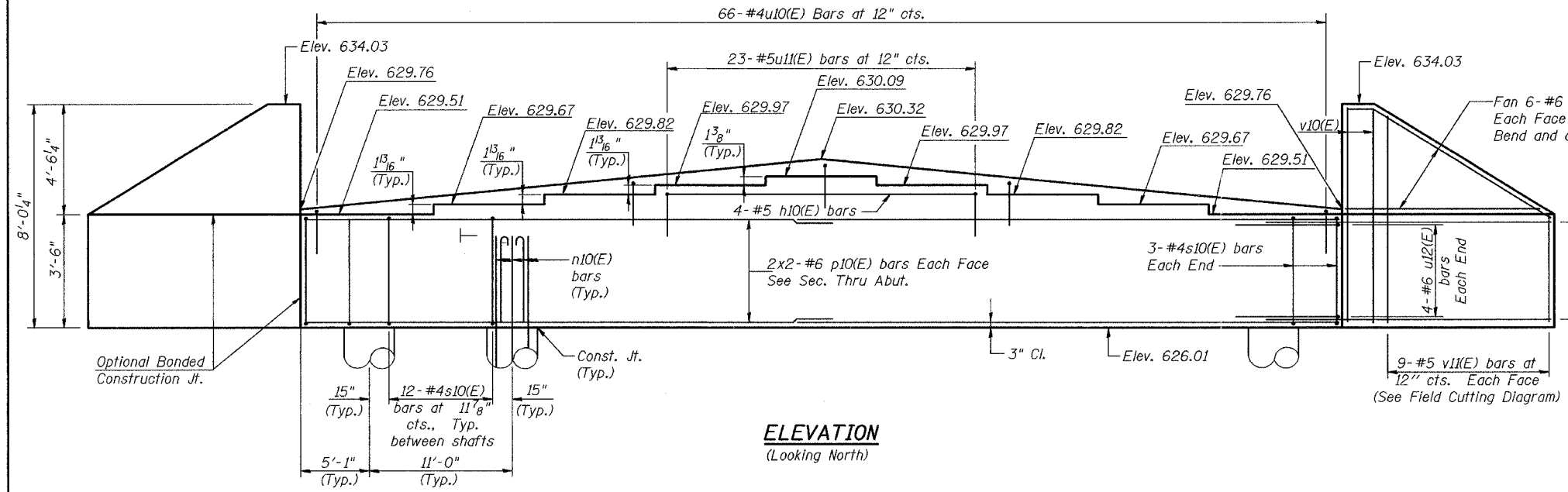
ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
OVER F.A.I. 80
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
ANCHOR BOLT DETAILS
FOR BEARINGS

SCALE: NONE
DATE: OCTOBER, 2005
DRAWN BY: NJH
CHECKED BY: JLG

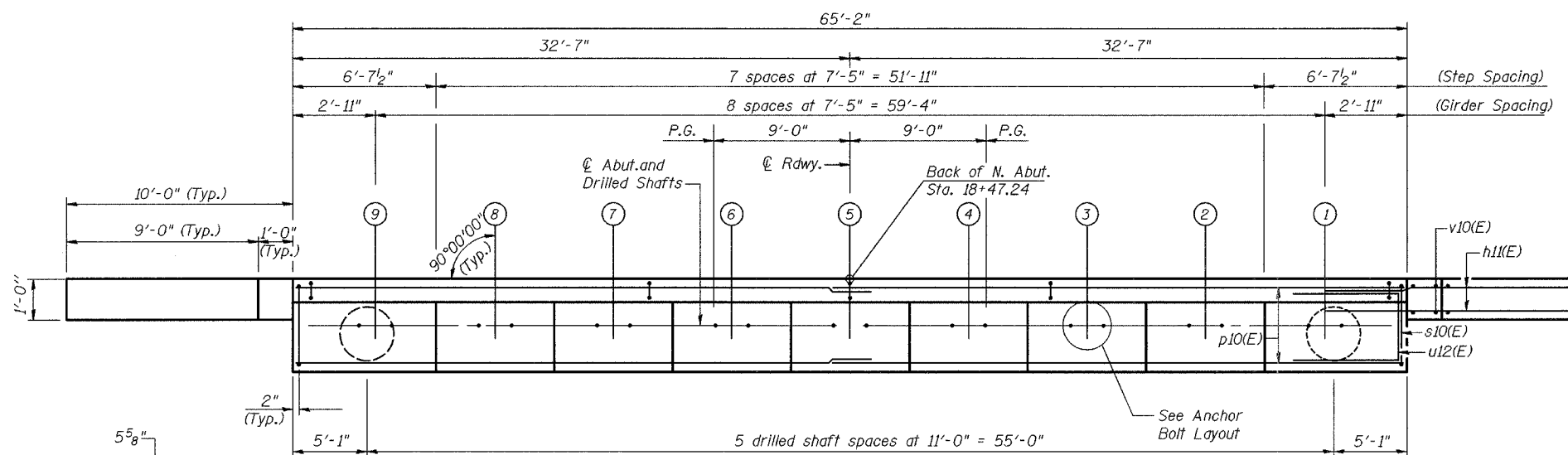
Louis Berger & Associates, Inc.
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Manchester, NH 03101

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	32-2 HBR	GRUNDY	171	106
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 66412				
SHEET 513 OF 520				

Notes: Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap. Bars indicated thus 2 x x # 5 etc., indicates 2 lines of bars, with two lengths per line. Reinforcement bars designated (E) shall be epoxy coated.

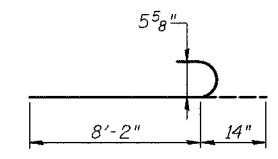


ELEVATION
(Looking North)

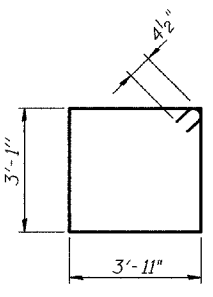


PLAN

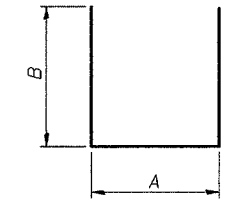
Note: Interior shafts not shown for clarity.



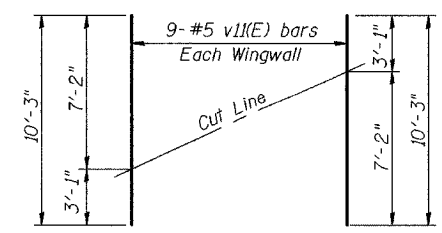
BAR n10(E)



BAR s10(E)

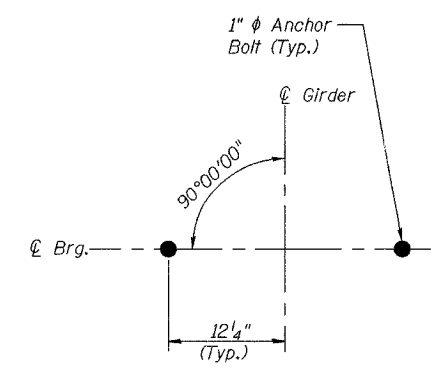


BARS u(E)

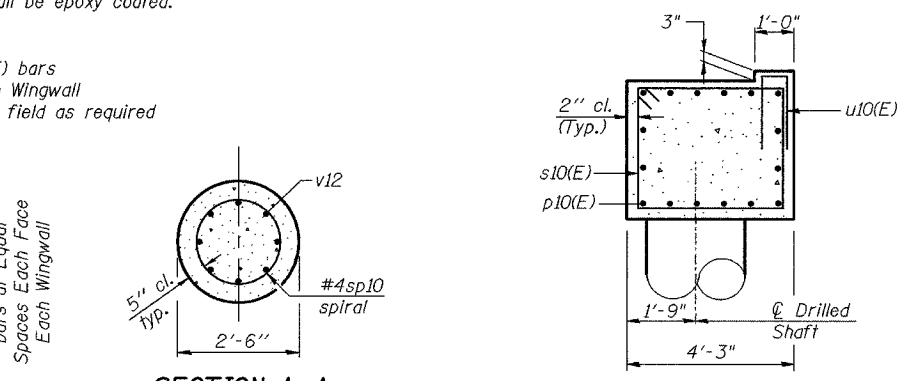


FIELD CUTTING DIAGRAM

Order v1(E) full length. Cut as shown and use remainder of bars in opposite face.

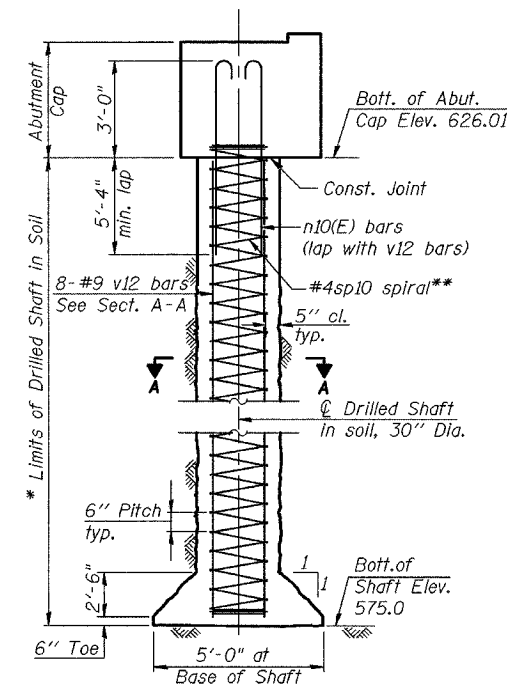


ANCHOR BOLT LAYOUT



SECTION A-A

SEC. THRU ABUT.



DRILLED SHAFT ELEVATION
Showing Reinforcement

DRILLED SHAFT DATA

Dia.: 30"
Capacity: 105 Tons
Est. Length: 52' North Abutment
48' South Abutment
No. Required: 6

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h10(E)	3	#5	21'-9"	—
h1(E)	24	#6	12'-1"	—
h12(E)	24	#6	9'-7"	—
n10(E)	48	#9	9'-4"	—
p(E)	32	#6	34'-0"	—
s10(E)	66	#4	14'-9"	□
sp10	6	#4	531'-0"	WWW
u10(E)	66	#4	3'-2"	□
u11(E)	23	#5	7'-3"	□
u12(E)	8	#6	9'-11"	□
v10(E)	8	#5	7'-2"	—
v11(E)	18	#5	9'-9"	—
v12	48	#9	46'-6"	—
Structure Excavation		Cu. Yd.	84	
Concrete Structures		Cu. Yd.	44.2	
Reinforcement Bars		Pound	9,720	
Reinforcement Bars, Epoxy Coated		Pound	5,360	

A & B DIMENSIONS

Bar	A	B
u10(E)	0'-8"	1'-3"
u11(E)	2'-11"	2'-2"
u12(E)	3'-11"	3'-0"

Notes: * The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits. ** Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 2" into abutment cap. Provide min. 4-#4 spacers or equivalent. Min. lap for spirals = 1'-8". For Anchor Bolt Details, See Sheet S12 of S20.

MIN. BAR LAP

#4 bar = 1'-8"
#5 bar = 2'-2"
#6 bar = 2'-9"

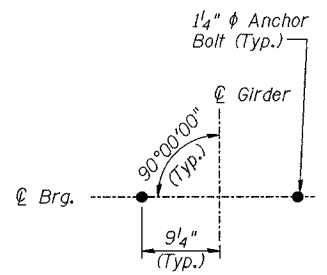
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Manchester, NH 03101

REVISIONS	NAME	DATE

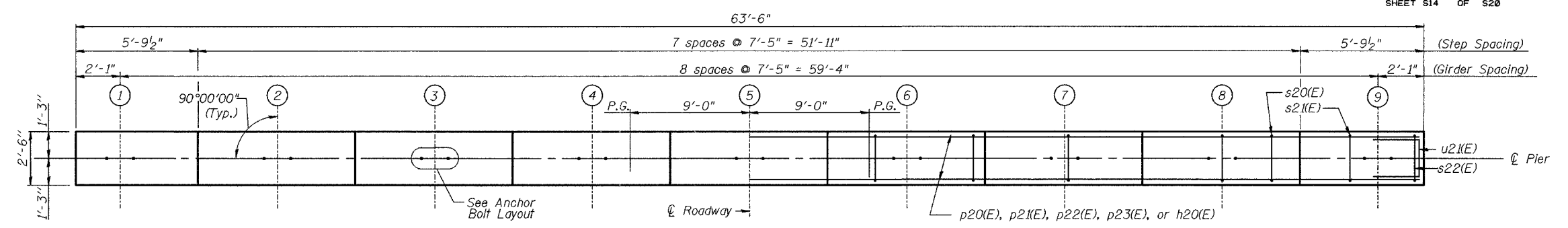
ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
OVER F.A.I. 80
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
NORTH ABUTMENT
SCALE: NONE
DATE: OCTOBER, 2005
DRAWN BY: NJH
CHECKED BY: JLG

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	32-2 HBR	GRUNDY	171	107
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 66412				
SHEET S14 OF S20				

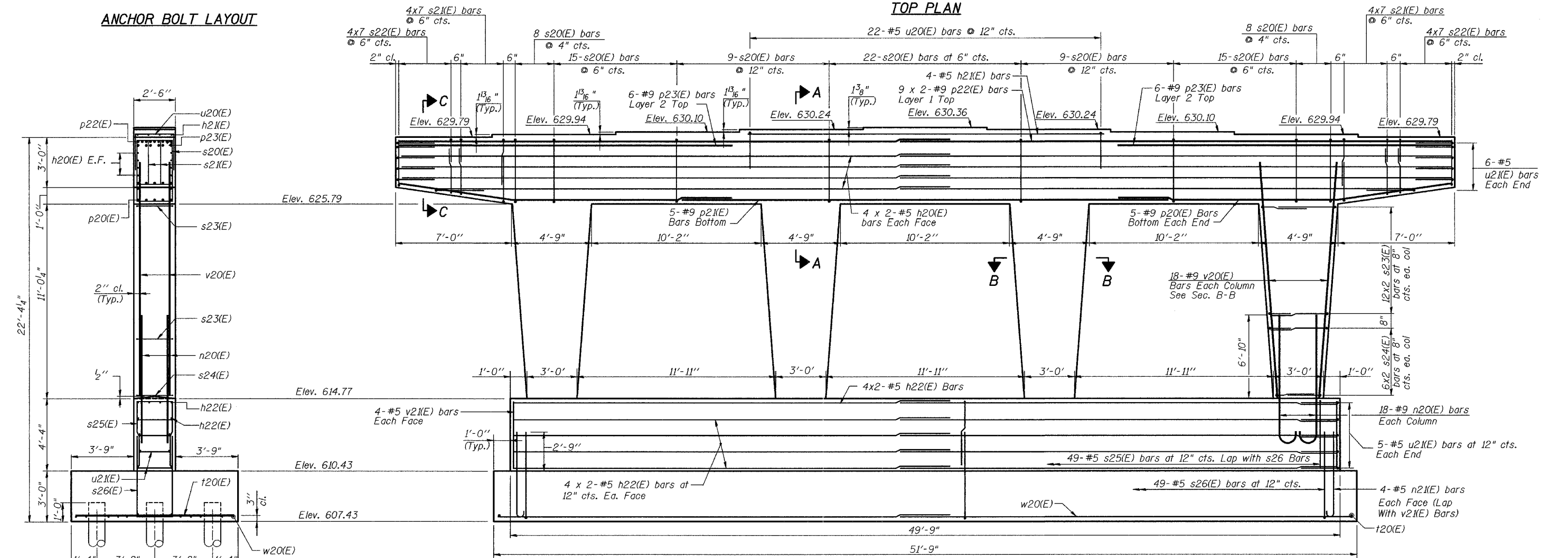
Notes: Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Bars indicated thus 2 x 2 - #5 etc., indicates 2 lines of bars, with 2 lengths per line.
 Reinforcement bars designated (E) shall be epoxy coated.



ANCHOR BOLT LAYOUT



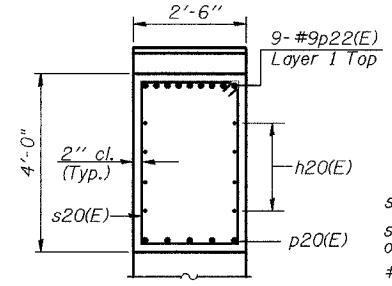
TOP PLAN



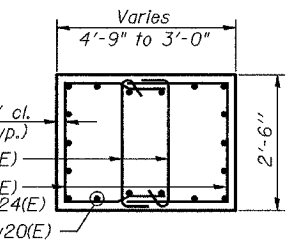
ELEVATION
(Looking South)

END VIEW

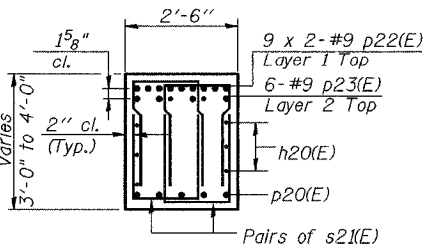
MIN. BAR LAP
 #4 bar = 2'-0"
 #5 bar = 2'-6"
 #9 bar = 8'-8" Bottom Bars
 #9 bar = 9'-9" Top Bars



SECTION A-A



SECTION B-B



SECTION C-C

Louis Berger & Associates, Inc.
 1001 Elm Street, Suite 300
 Manchester, NH 03101

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
 OVER F.A.I. 80
 F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
 STRUCTURE No. 032-0114
 STATION 19+49.99
PIER DETAILS I
 SCALE: NONE
 DATE: OCTOBER, 2005
 DRAWN BY: NJH
 CHECKED BY: JLG

Note: Work this sheet with Sheet S15.

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	32-2 HBR	GRUNDY	171	108
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 66412				
SHEET 515 OF 520				

Notes:
 Driving and bearing ends of pipe shall be cut square. The thickness of the shell shall be 0.250 inches with a tolerance of 5%.
 The shell shall be according to Article 1006.05(a) of the Standard Specifications.

BILL OF MATERIAL

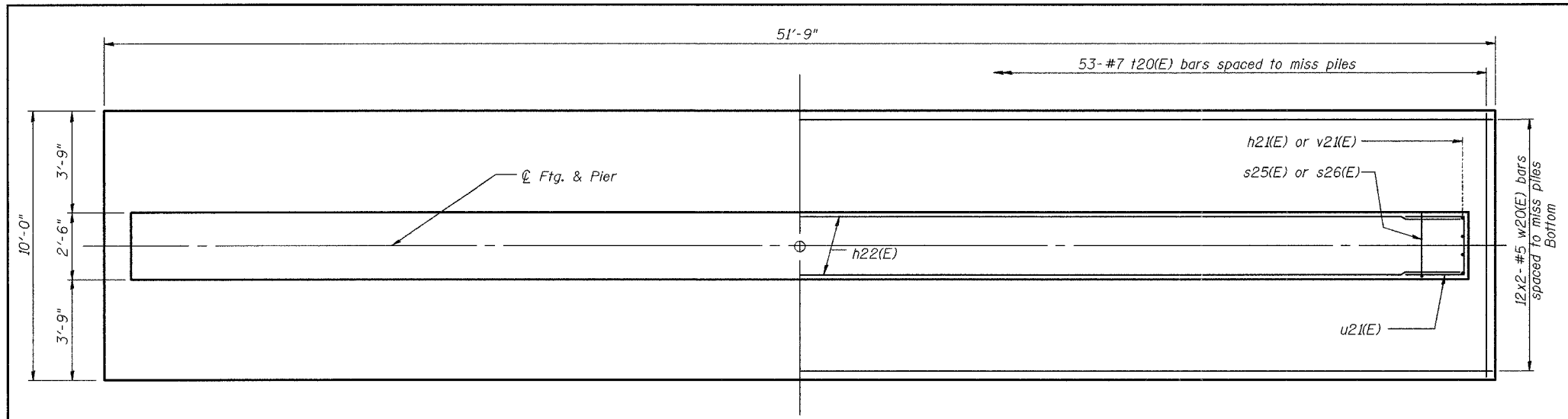
Bar	No.	Size	Length	Shape
h20(E)	16	#5	32'-7"	—
h21(E)	4	#5	21'-0"	—
h22(E)	24	#5	25'-9"	—
n20(E)	72	#9	11'-0"	C
n21(E)	8	#5	4'-11"	C
n22	192	#5	7'-6"	—
p20(E)	10	#9	20'-9"	—
p21(E)	5	#9	39'-0"	—
p22(E)	18	#9	36'-6"	—
p23(E)	12	#9	17'-10"	—
s20(E)	86	#4	12'-5"	□
s21(E)	56	#4	7'-2"	□
s22(E)	56	#4	6'-8"	□
s23(E)	96	#4	8'-6"	□
s24(E)	48	#4	6'-10"	□
s25(E)	49	#5	10'-4"	□
s26(E)	49	#5	12'-2"	□
s27(E)	144	#4	2'-11"	L
sp20	32	#4	75'-0"	
t10(E)	53	#7	9'-8"	—
u20(E)	22	#5	6'-6"	—
u21(E)	26	#5	6'-6"	—
v20(E)	72	#9	13'-10"	—
v21(E)	8	#5	4'-1"	—
w20(E)	24	#5	26'-9"	—
Structure Excavation	Cu. Yd.	103		
Concrete Structures	Cu. Yd.	116.6		
Reinforcement Bars	Pound	1,854		
Reinforcement Bars, Epoxy Coated	Pound	17,210		
Concrete Piles, 14" Metal Shell	L.F.	1,674		
Test Piles (Concrete Piles, 14" Metal Shell)	Ea.	1		

Reinforcement Bars designated (E) shall be epoxy coated.

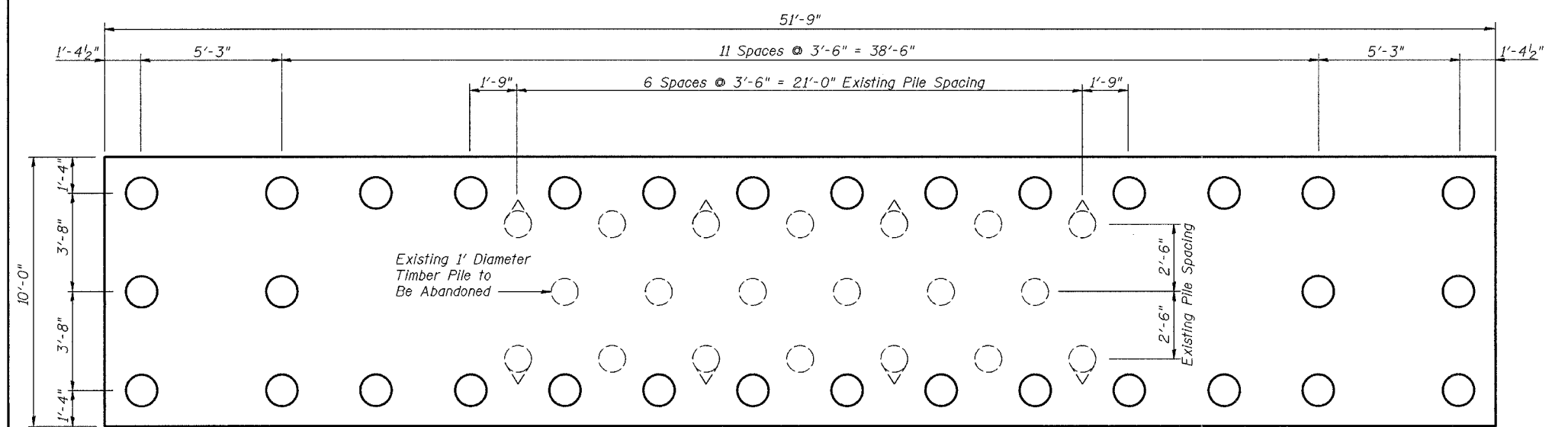
A, B & C DIMENSIONS

Bar	A	B	C
p20(E)	13'-11"	6'-10"	1'-0"
s21(E)	1'-6"	2'-10"	
s22(E)	1'-6"	2'-6"	
s23(E)	2'-2"	3'-2"	
s24(E)	2'-2"	2'-4"	
s25(E)	2'-2"	4'-1"	
s26(E)	2'-2"	5'-0"	
u20(E)	2'-2"	2'-2"	
u21(E)	2'-2"	2'-2"	

Note: Work this sheet with Sheet S14.



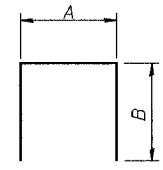
FOOTING PLAN



PILE LAYOUT

PILE DATA

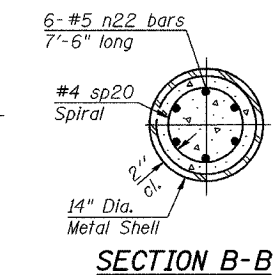
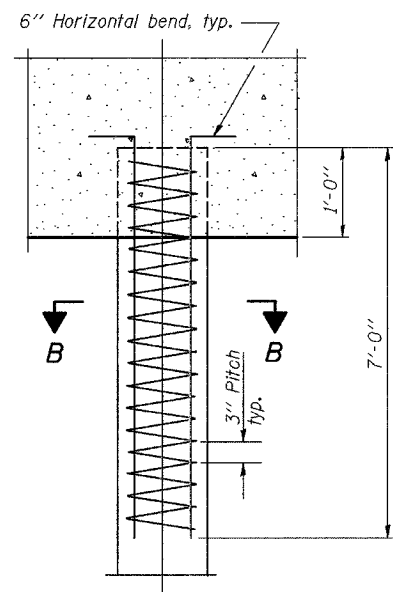
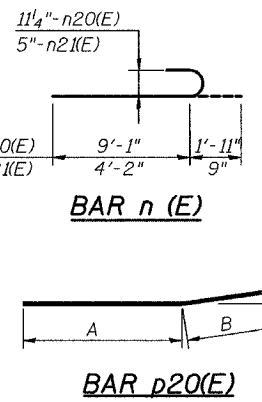
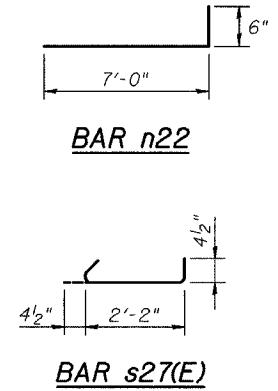
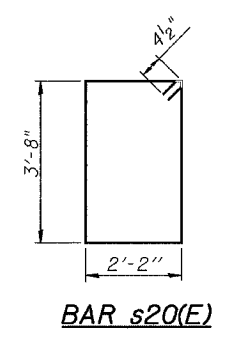
Type: 14" Metal Shell
 Capacity: 55 Tons
 Est. Length: 54'
 No. Required: 31 Piles & 1 Test Pile



PILE KEY

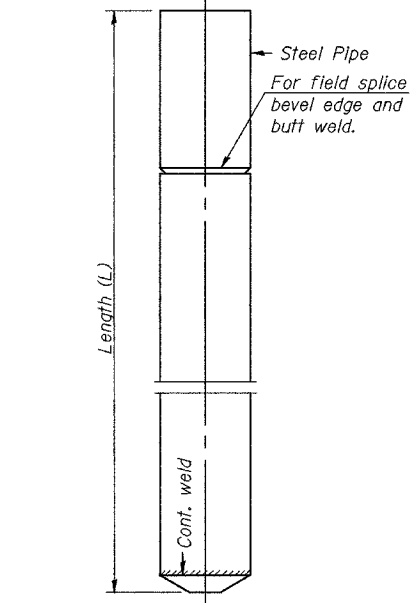
- Proposed Vertical Pile
- Existing Vertical Pile
- Existing Batter Pile

BARS s(E) AND u(E)



DETAIL OF REINFORCEMENT FOR METAL SHELLS

Louis Berger & Associates, Inc.
 1001 Elm Street, Suite 300
 Manchester, NH 03101



OPTIONAL FLAT END

DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES

MIN. BAR LAP
 #4 bar = 1'-8"
 #5 bar = 2'-2"

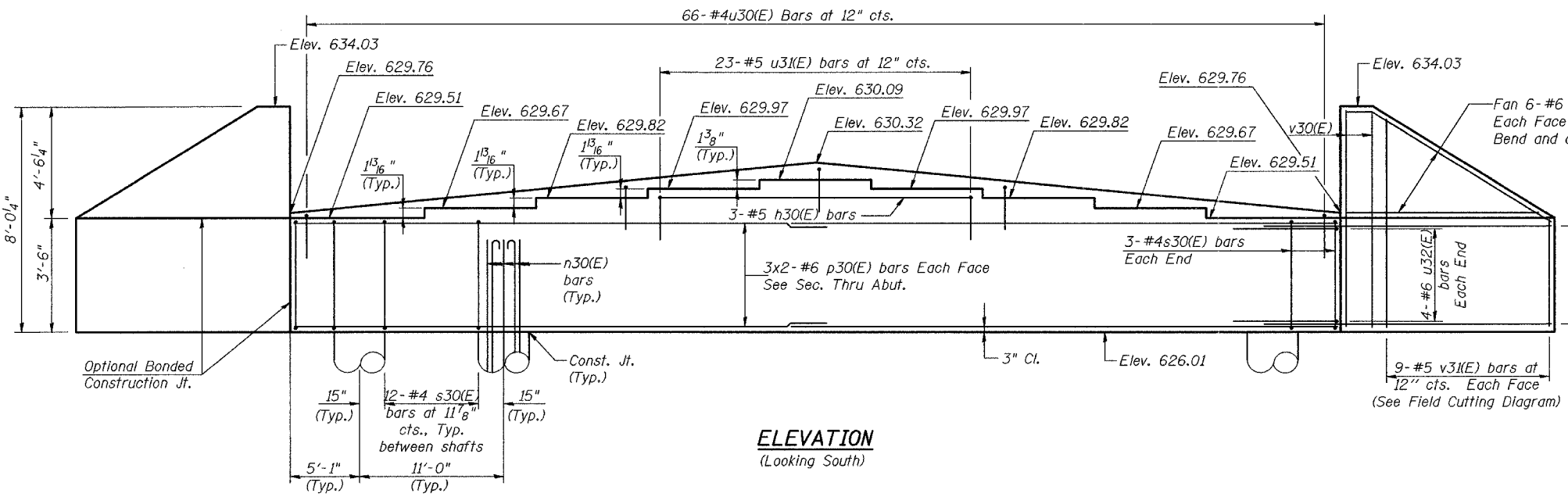
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
 OVER F.A.I. 80
 F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
 STRUCTURE No. 032-0114
 STATION 19+49.99
 PIER DETAILS II

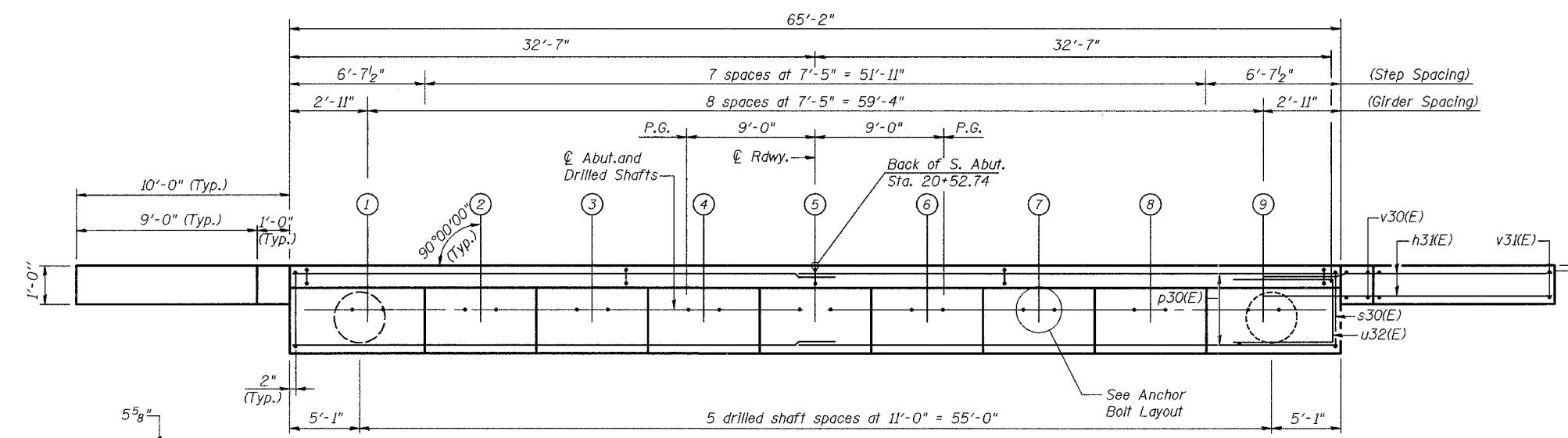
SCALE: NONE
 DATE: OCTOBER, 2005
 DRAWN BY: NJH
 CHECKED BY: JLG

F.A.P.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
623	32-2 HBR	GRUNDY	171	109
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 66412				
SHEET S16 OF S20				

Notes: Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap. Bars indicated thus 2 x 2 # 5 etc., indicates 2 lines of bars, with two lengths per line. Reinforcement bars designated (E) shall be epoxy coated.

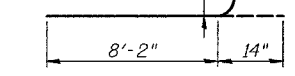


ELEVATION
(Looking South)

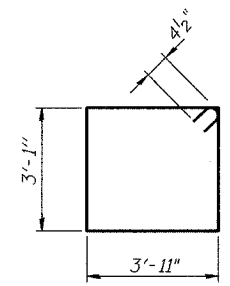


PLAN

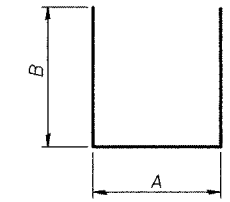
Note: Interior shafts not shown for clarity.



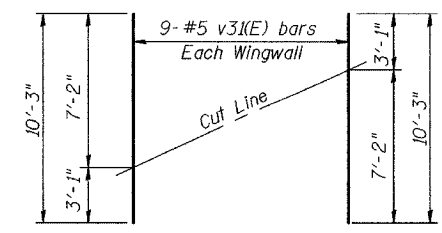
BAR n30(E)



BAR s30(E)

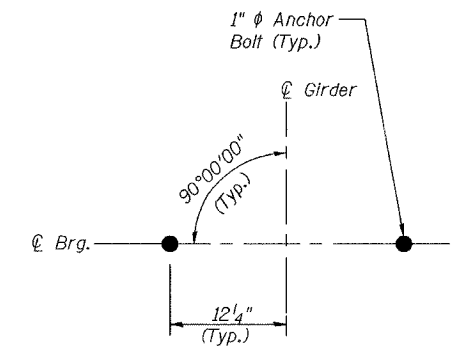


BARS u30(E), u31(E) & u32(E)



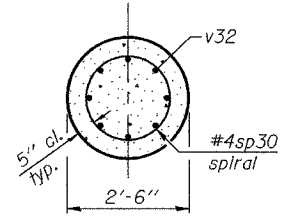
FIELD CUTTING DIAGRAM

Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.

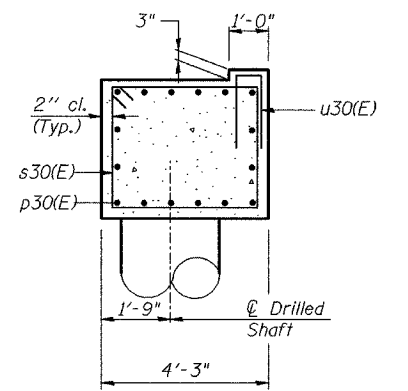


ANCHOR BOLT LAYOUT

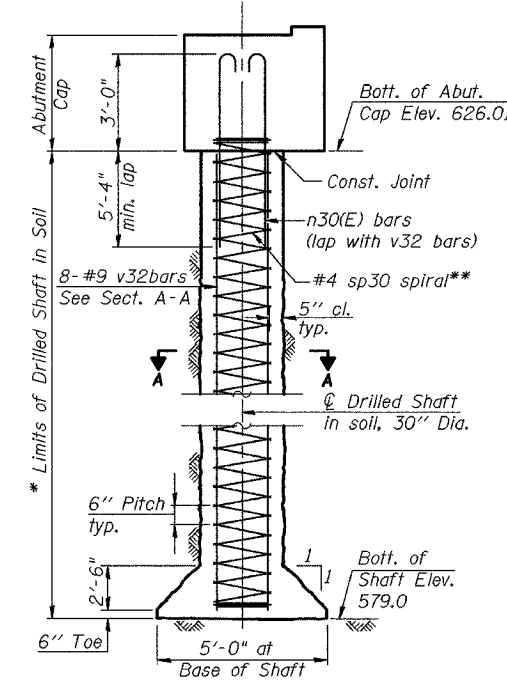
Fan 6-#6 h32(E) bars Each Face Each Wingwall Bend and cut in field as required



SECTION A-A



SEC. THRU ABUT.



DRILLED SHAFT ELEVATION
Showing Reinforcement

DRILLED SHAFT DATA

Dia.: 30"
Capacity: 105 Tons
Est. Length: 52' North Abutment
48' South Abutment
No. Required: 6

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h30(E)	4	#5	21'-9"	—
h31(E)	24	#6	12'-1"	—
h32(E)	24	#6	9'-7"	—
n30(E)	48	#9	9'-4"	—
p30(E)	32	#6	34'-0"	—
s30(E)	66	#4	14'-9"	□
sp30	6	#4	575'-0"	▩
u30(E)	66	#4	3'-2"	U
u31(E)	23	#5	7'-3"	U
u32(E)	8	#6	9'-11"	U
v30(E)	8	#5	7'-2"	—
v31(E)	18	#5	9'-9"	—
v32	48	#9	50'-6"	—
Structure Excavation		Cu. Yd.		84
Concrete Structures		Cu. Yd.		44.2
Reinforcing Bars		Pound		10,550
Reinforcement Bars, Epoxy Coated		Pound		5,360

A & B DIMENSIONS

Bar	A	B
u30(E)	0'-8"	1'-3"
u31(E)	2'-11"	2'-2"
u32(E)	3'-11"	3'-0"

Notes: * The quantities and detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits. ** Provide 1/2 extra turns top and bottom of each drilled shaft. Extend spiral 2" into abutment cap. Provide min. 4-#4 spacers or equivalent. Min. lap for spirals = 1'-8". For Anchor Bolt Details, See Sheet S12 of S20.

MIN. BAR LAP

#4 bar = 1'-8"
#5 bar = 2'-2"
#6 bar = 2'-9"

Louis Berger & Associates, Inc.
1001 Elm Street, Suite 300
Manchester, NH 03101

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD OVER F.A.I. 80
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
SOUTH ABUTMENT
SCALE: NONE
DATE: OCTOBER, 2005
DRAWN BY: NJH
CHECKED BY: JLG

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
 Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

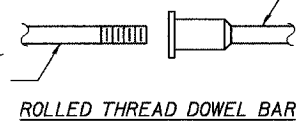
- ① Minimum Capacity = $1.25 \times f_y \times A_l$
(Tension in kips)
- ② Minimum *Pull-out Strength = $1.25 \times f_{sallow} \times A_l$
(Tension in kips)

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 f_{sallow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_l = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

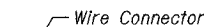
The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



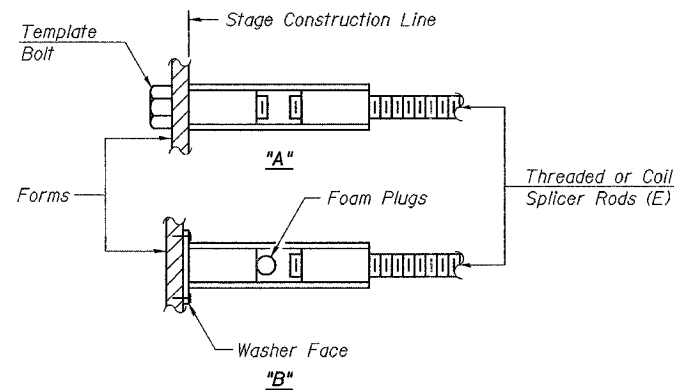
** ONE PIECE



WELDED SECTIONS

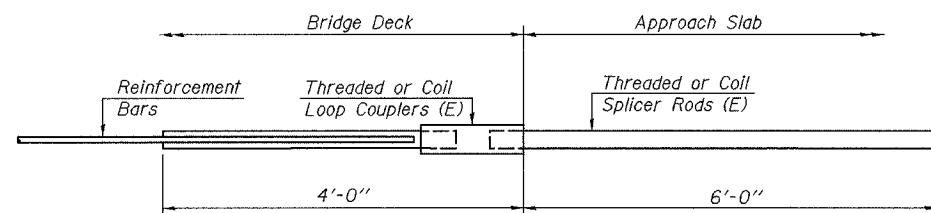
BAR SPLICER ASSEMBLY ALTERNATIVES

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



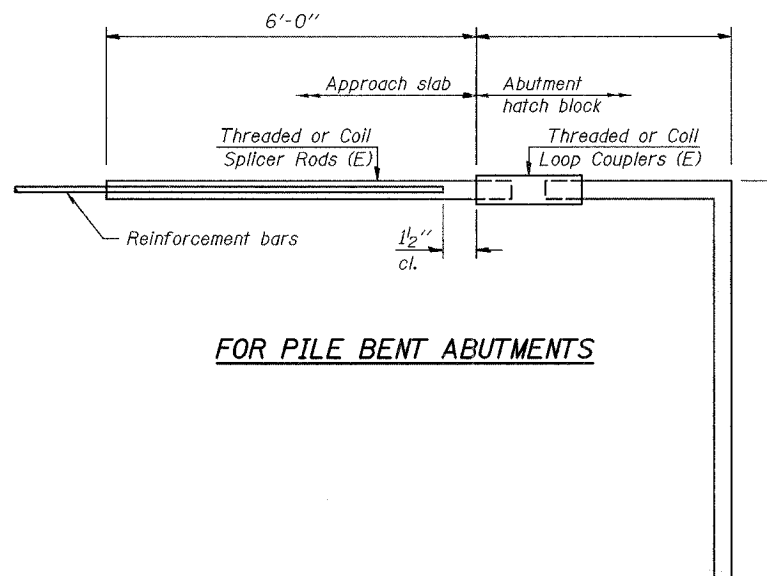
INSTALLATION AND SETTING METHODS

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



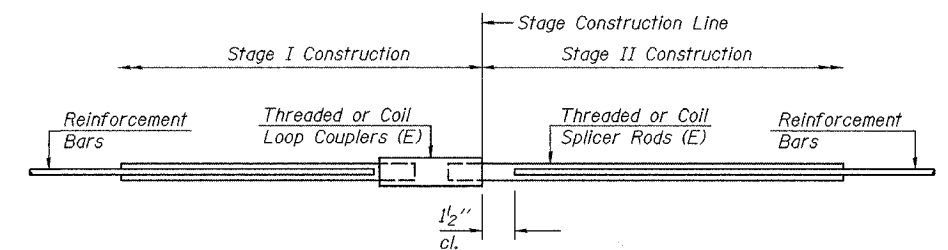
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 124



FOR PILE BENT ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



STANDARD

Bar Size	No. Assemblies Required	Location

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SENECA ROAD
OVER F.A.I. 80
F.A.P. 623 SEC. 32-2 HBR GRUNDY CO.
STRUCTURE No. 032-0114
STATION 19+49.99
 BAR SPLICER DETAILS

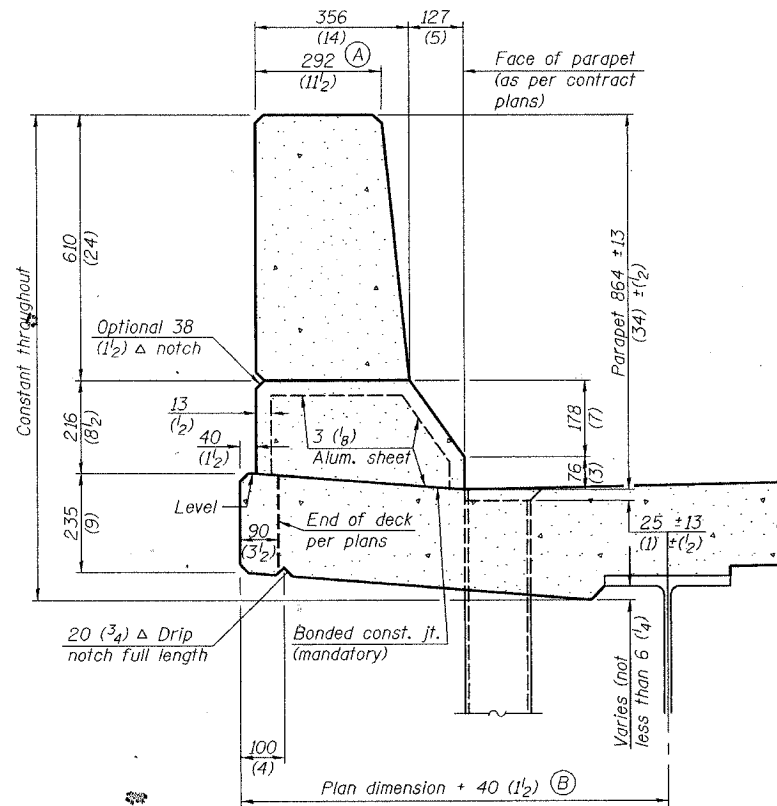
SCALE: NONE
 DATE: OCTOBER, 2005
 DRAWN BY: NJH
 CHECKED BY: JLG

Louis Berger & Associates, Inc.
 1001 Elm Street, Suite 300
 Manchester, NH 03101

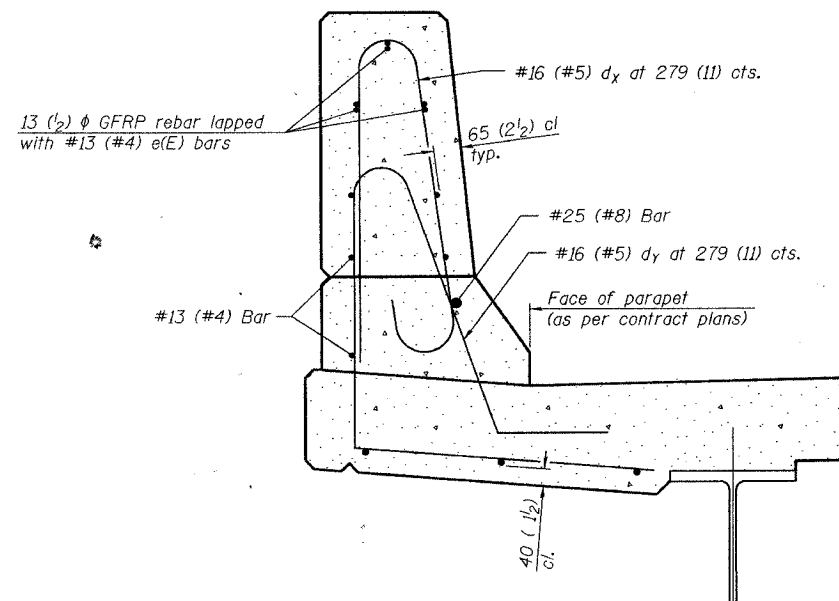
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 623	32-2 HBR	GRUNDY	171	113A
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

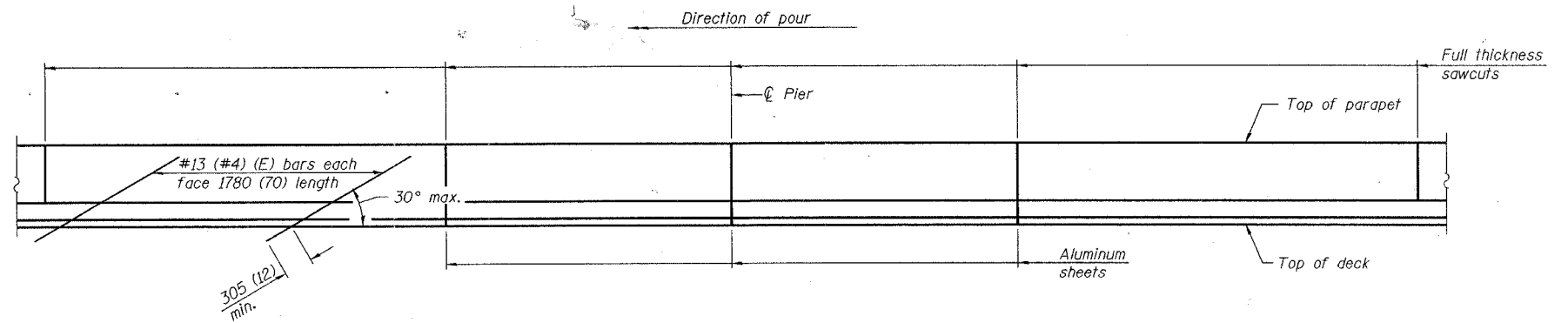
Contract # 66412



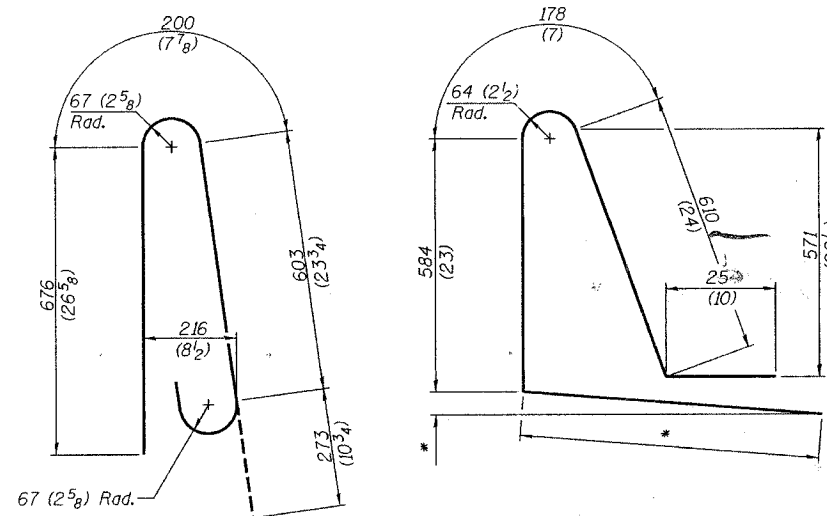
SECTION
(Showing dimensions)



SECTION
(Showing required reinforcement)

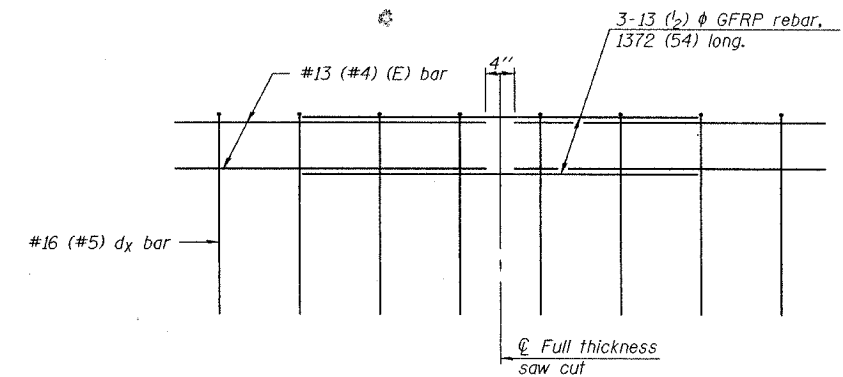


ELEVATION
(Showing parapet joints and typical stiffening reinforcement between joints)



BAR dx(e)

BAR dx(e)
* Per contract plans

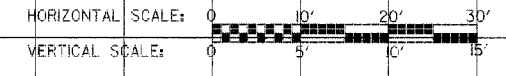
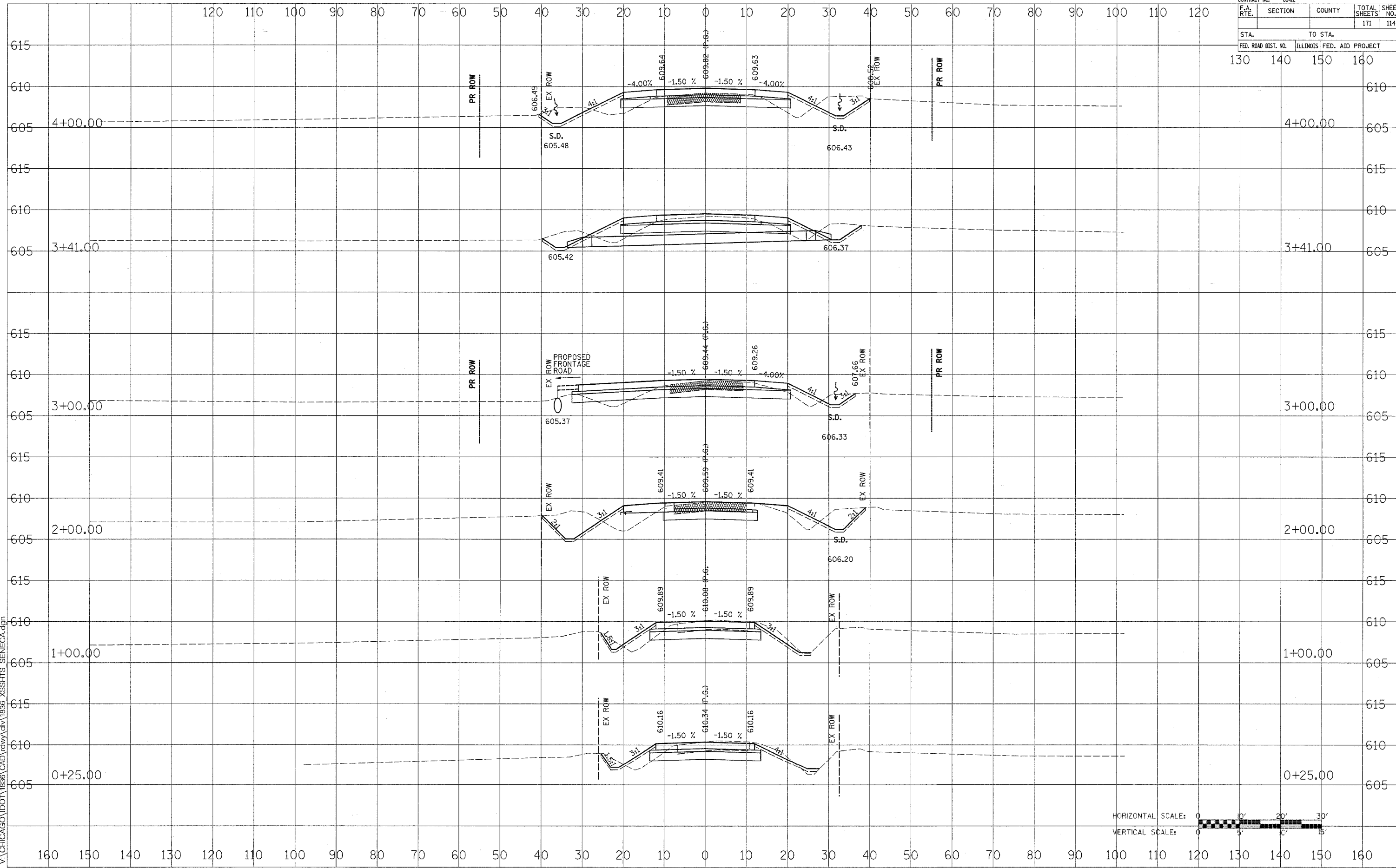


GFRP REBAR STIFFENING DETAIL
(Place as shown in parapet section)

GENERAL NOTES
All dimensions shall remain the same as shown on contract plans, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B= 0.0422 m³/m (.0165 cu. yds./ft.) of parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all other locations. Adjust/add joint locations to maintain 3 to 6 meter (10 to 20 foot) spacing.

**CONCRETE PARAPET
SLIPFORMING OPTION**

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	114
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



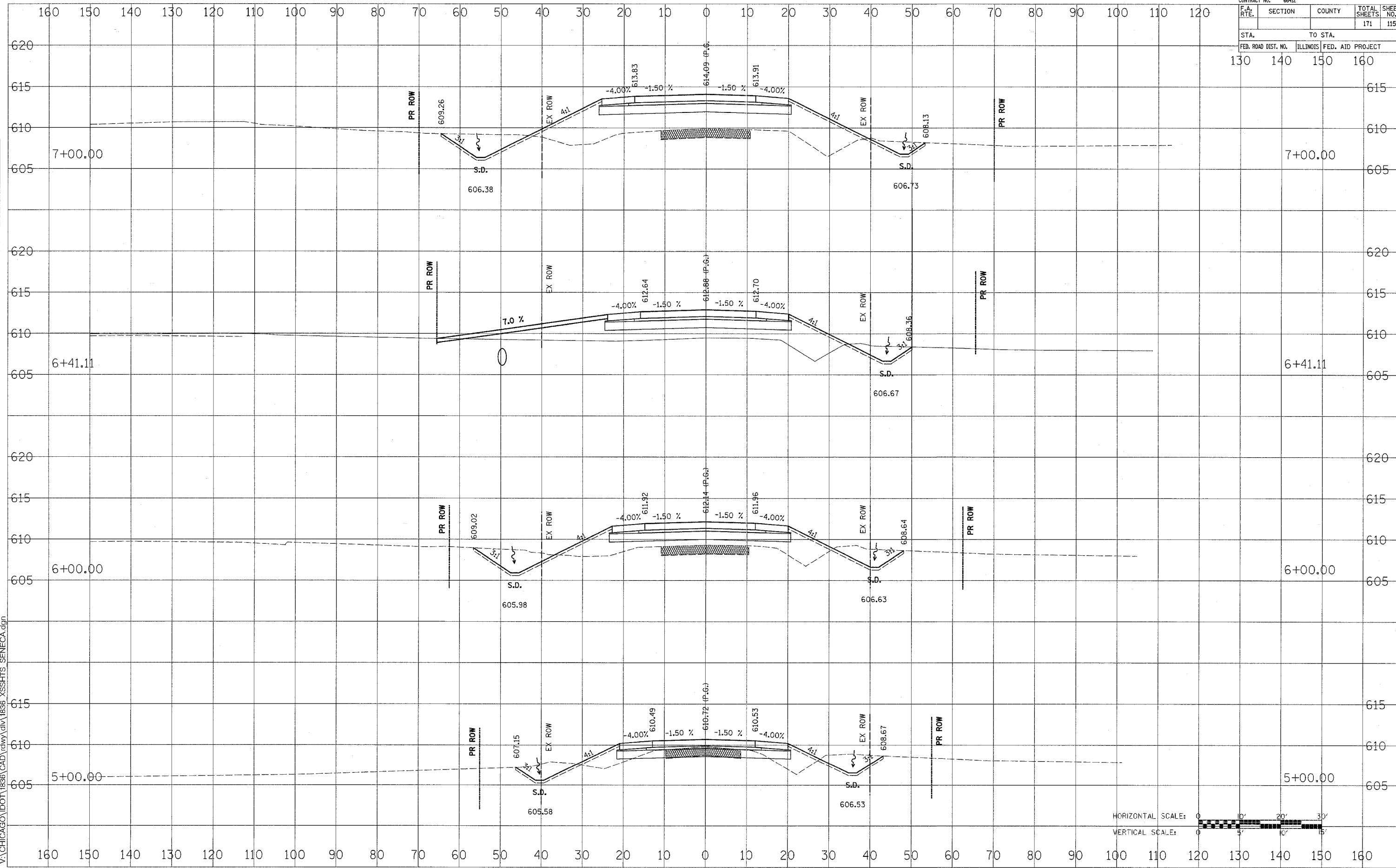
FAP ROUTE 623 (SENECA ROAD)

DATE	BY
DATE	BY

DATE	BY
DATE	BY

11/4/2005
 V:\CHICAGO\DOT\1826\CAD\dwg\1826_XSSHTS_SENECA.dgn

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	115
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



HORIZONTAL SCALE: 0 10' 20' 30'
 VERTICAL SCALE: 0 5' 10' 15'

FAP ROUTE 623 (SENECA ROAD)

DATE
 BY
 SURVEYED
 SURVEY TEMPLATE
 NOTE BOOK
 AREAS CHECKED

DATE
 BY
 SURVEYED
 SURVEY TEMPLATE
 NOTE BOOK
 AREAS CHECKED

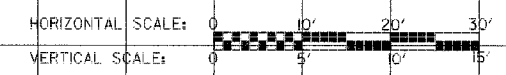
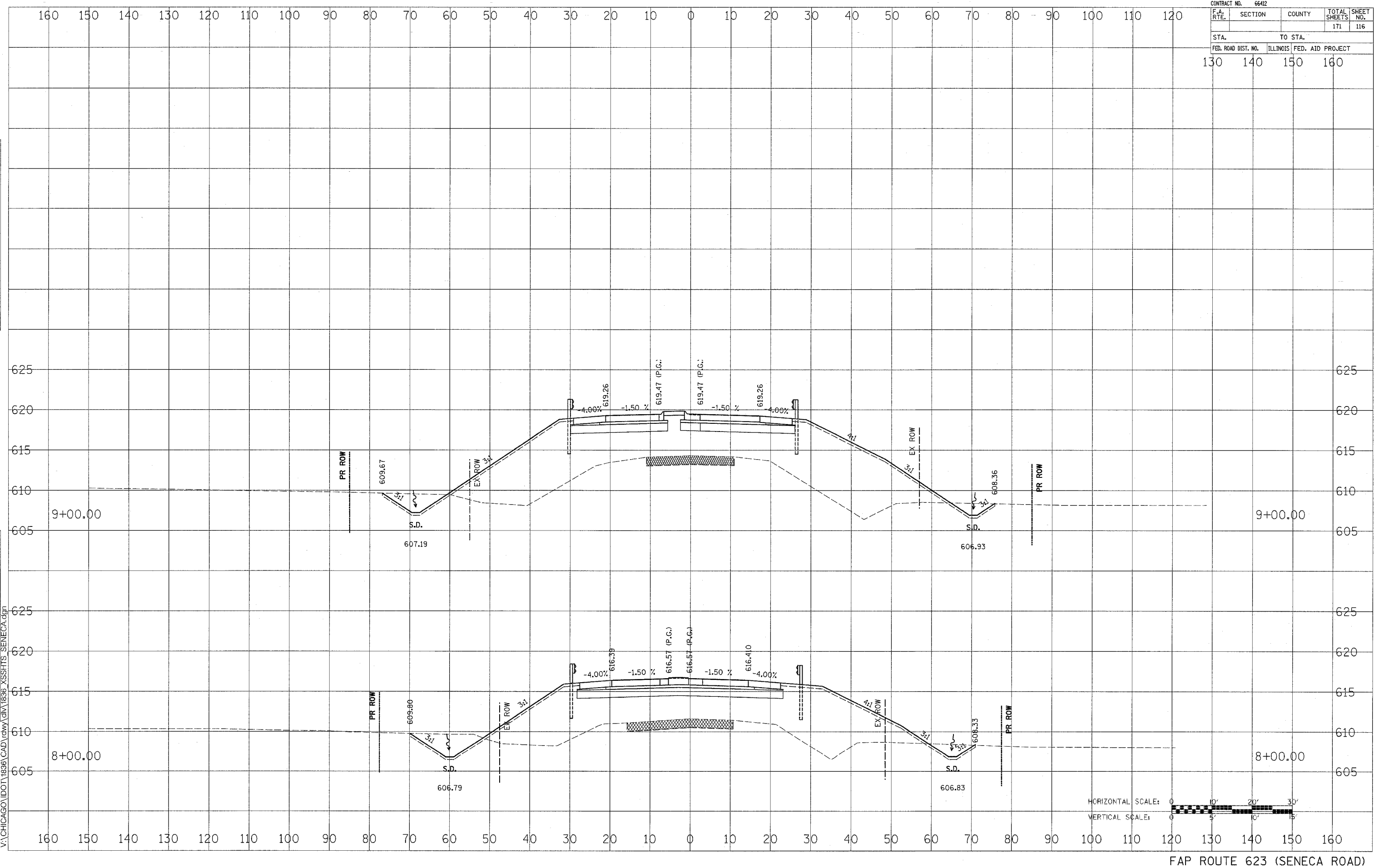
11/4/2005
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CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	116
STA. 130		TO STA. 160		
FED. ROAD DIST. NO. 130		ILLINOIS FED. AID PROJECT 140 150 160		

DATE	BY
SURVEYED	
TEMPLATE	
AREAS CHECKED	
NO.	
NO.	

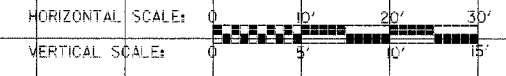
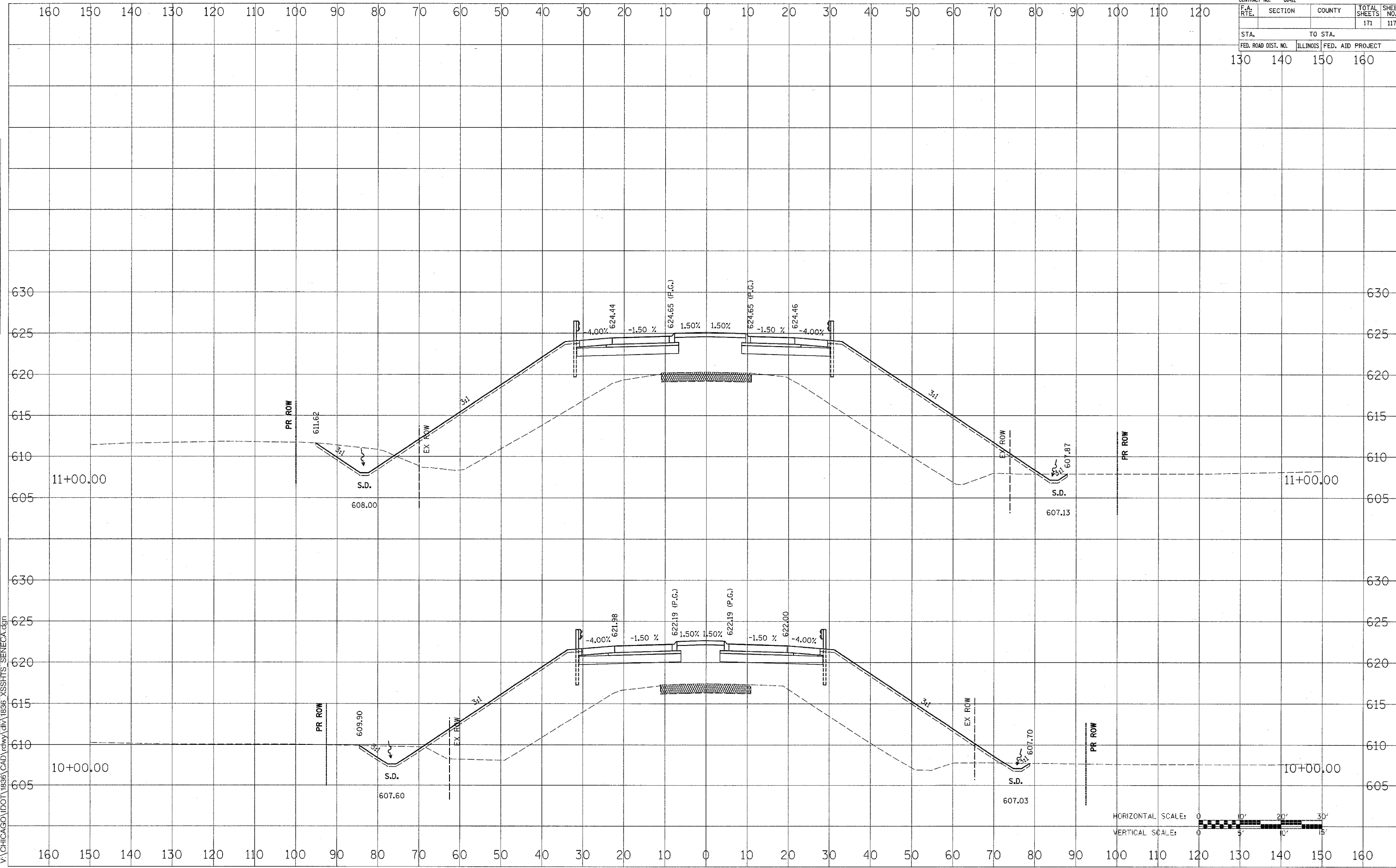
DATE	BY
SURVEYED	
TEMPLATE	
AREAS CHECKED	
NO.	
NO.	

11/14/2005
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FAP ROUTE 623 (SENECA ROAD)

CONTRACT NO: 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	117
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	

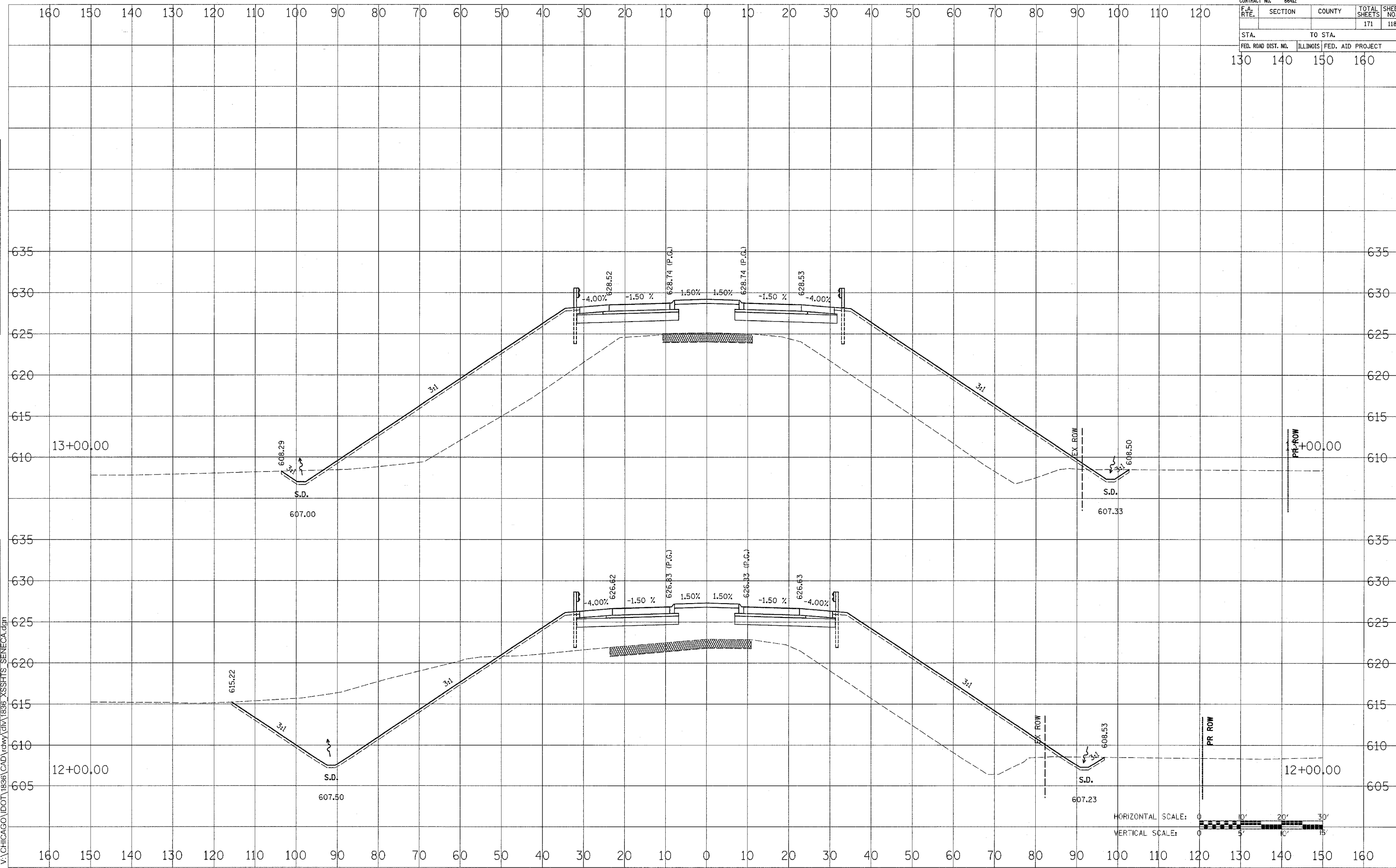


FAP ROUTE 623 (SENECA ROAD)

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

11/14/2005
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CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	118
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



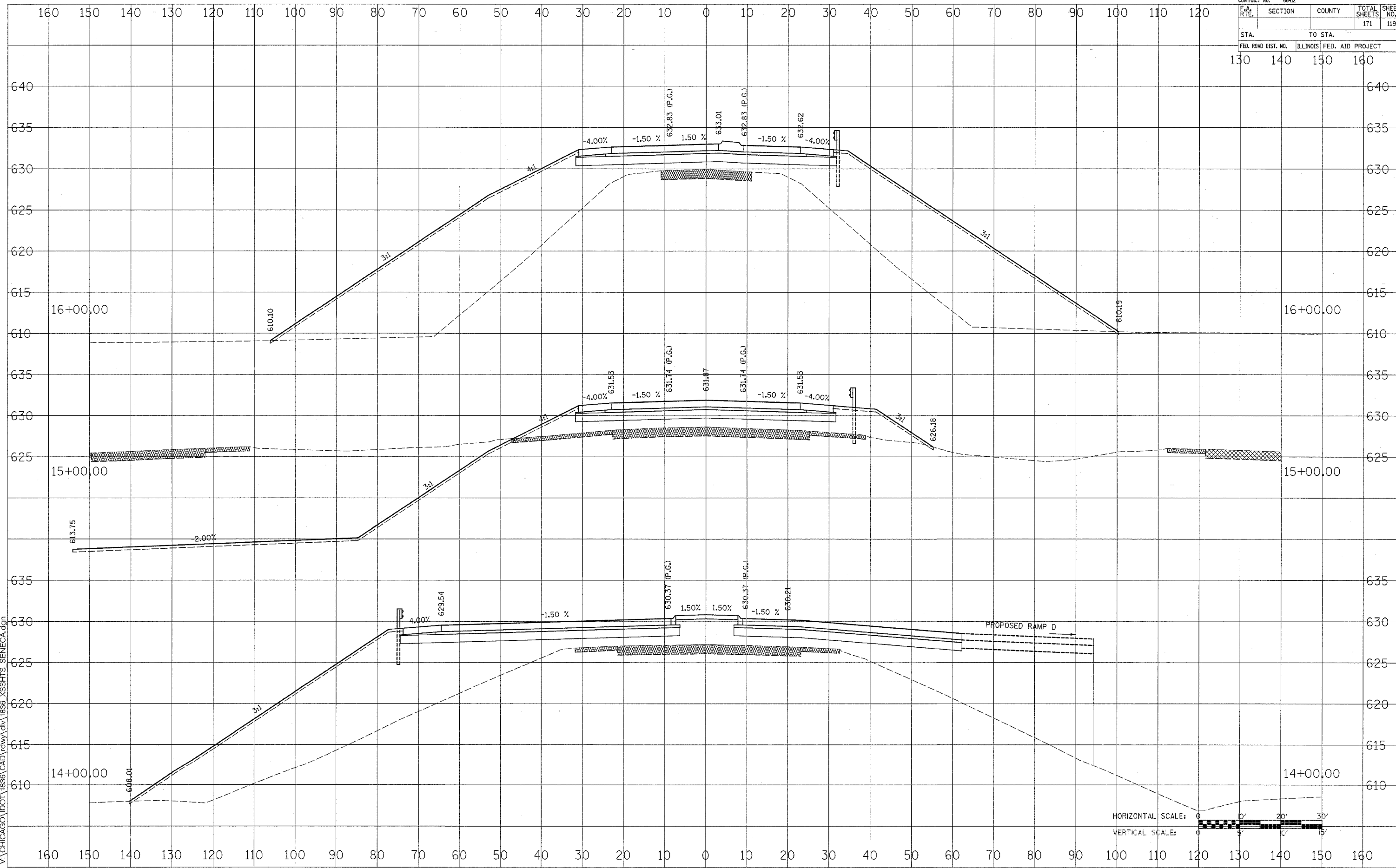
FAP ROUTE 623 (SENECA ROAD)

DATE	BY
DATE	BY

DATE	BY
DATE	BY

11/14/2005
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CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	119
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



HORIZONTAL SCALE: 0 10' 20' 30'
 VERTICAL SCALE: 0 5' 10' 15'

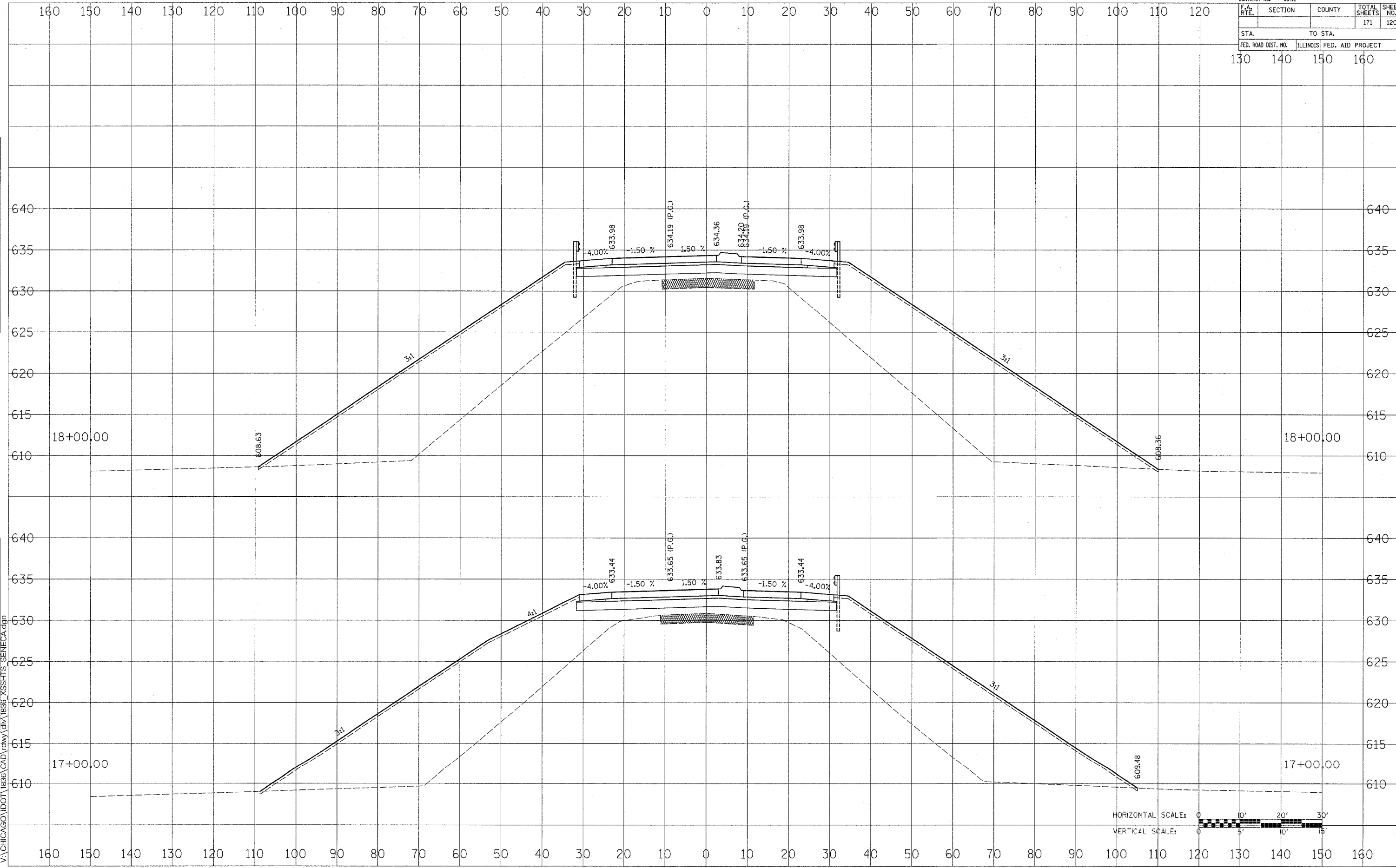
FAP ROUTE 623 (SENECA ROAD)

DATE
 BY
 SURVEYED
 SURVEY TEMPLATE
 NOTE BOOK
 AREAS CHECKED

DATE
 BY
 ORIGINAL SURVEY
 SURVEY TEMPLATE
 NOTE BOOK
 AREAS CHECKED

11/14/2005
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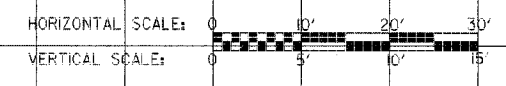
CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	120
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



BY	DATE
SURVEYED	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
FINAL SURVEY	
NOTE BOOK	
NO.	

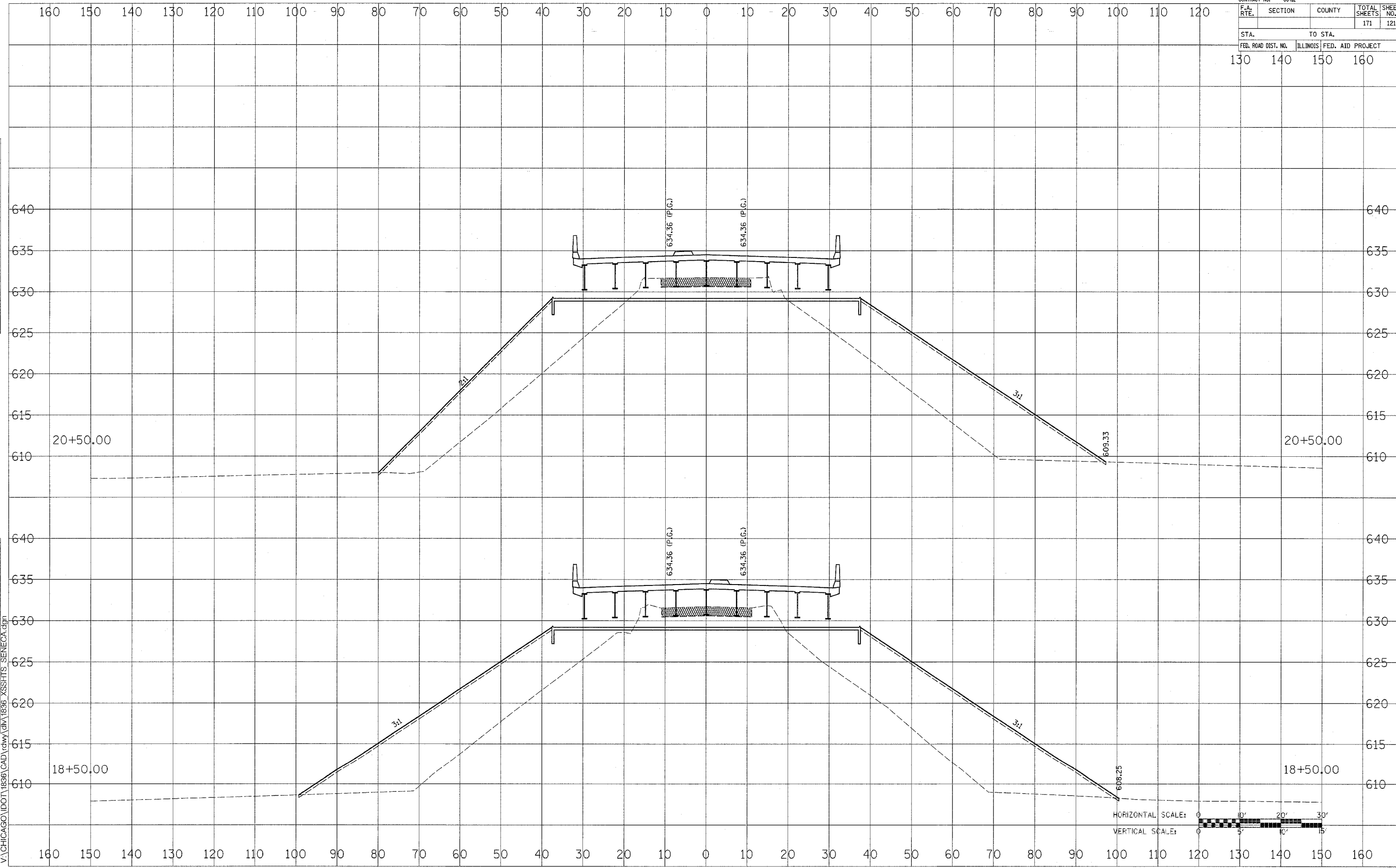
BY	DATE
SURVEYED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

11/14/2005
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FAP ROUTE 623 (SENECA ROAD)

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	121
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



DATE _____
 BY _____
 SURVEYED _____
 FINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

11/14/2005
 V:\CHICAGO\DOT\1836\CAD\rdwy\DIV\1836_XSSHIS_SENECA.dgn

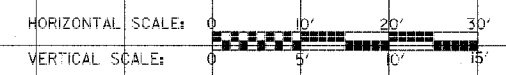
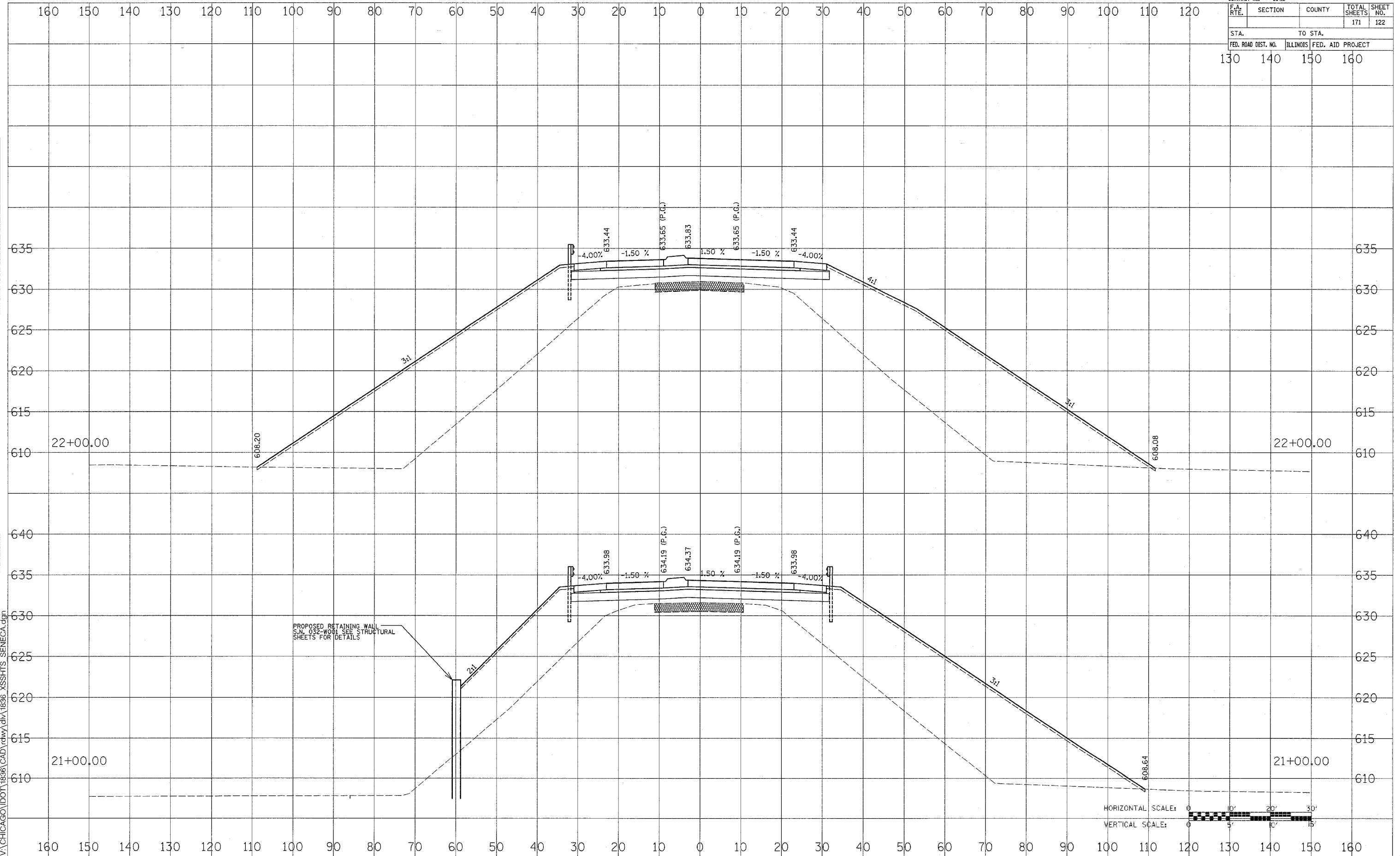
FAP ROUTE 623 (SENECA ROAD)

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	122
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	

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

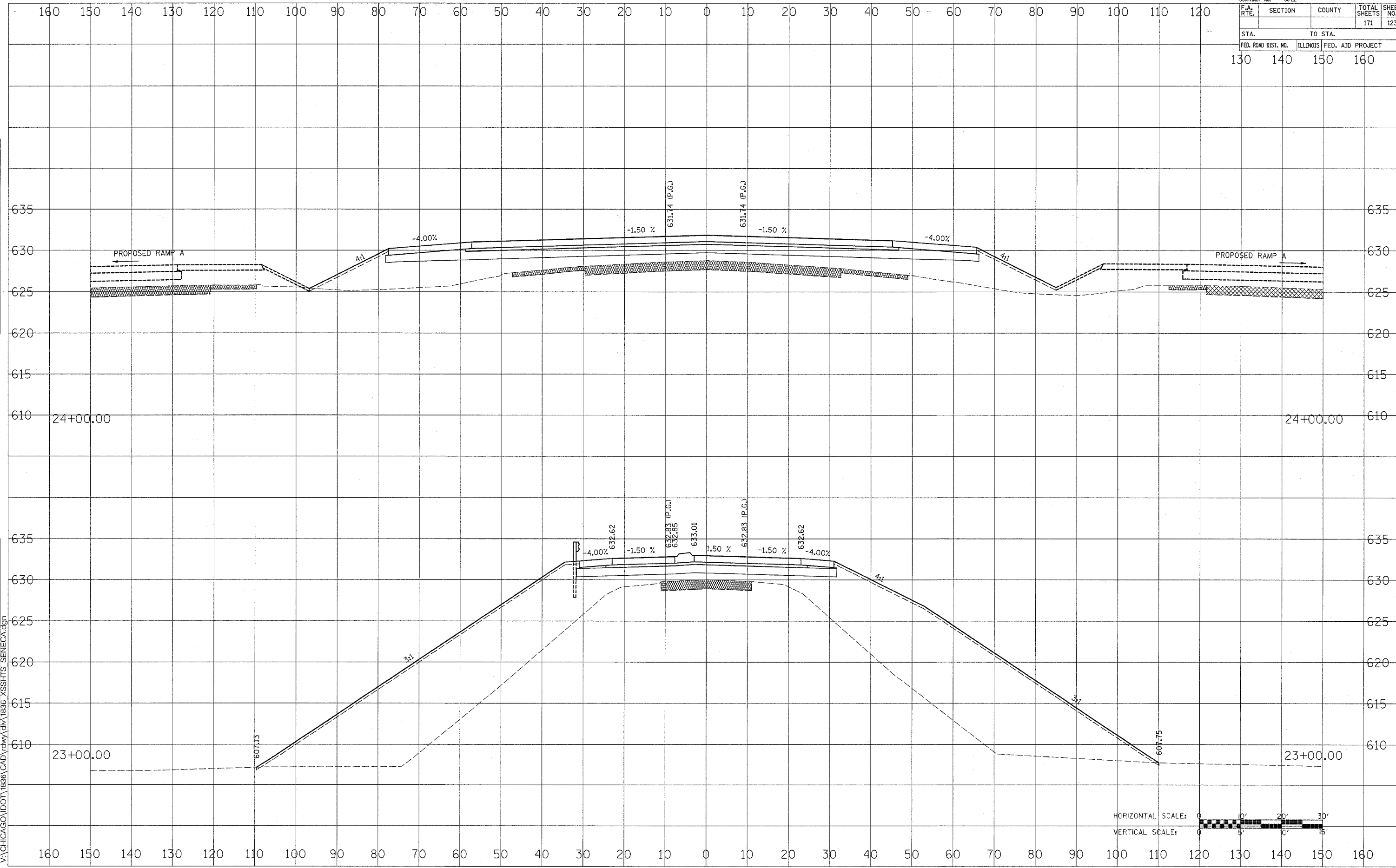
DATE	BY
SURVEYED	
TEMPLATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

11/14/2005
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FAP ROUTE 623 (SENECA ROAD)

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	123
STA.		TO STA.		
130		160		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

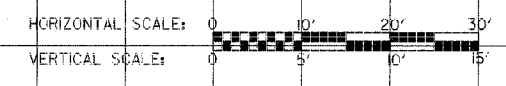
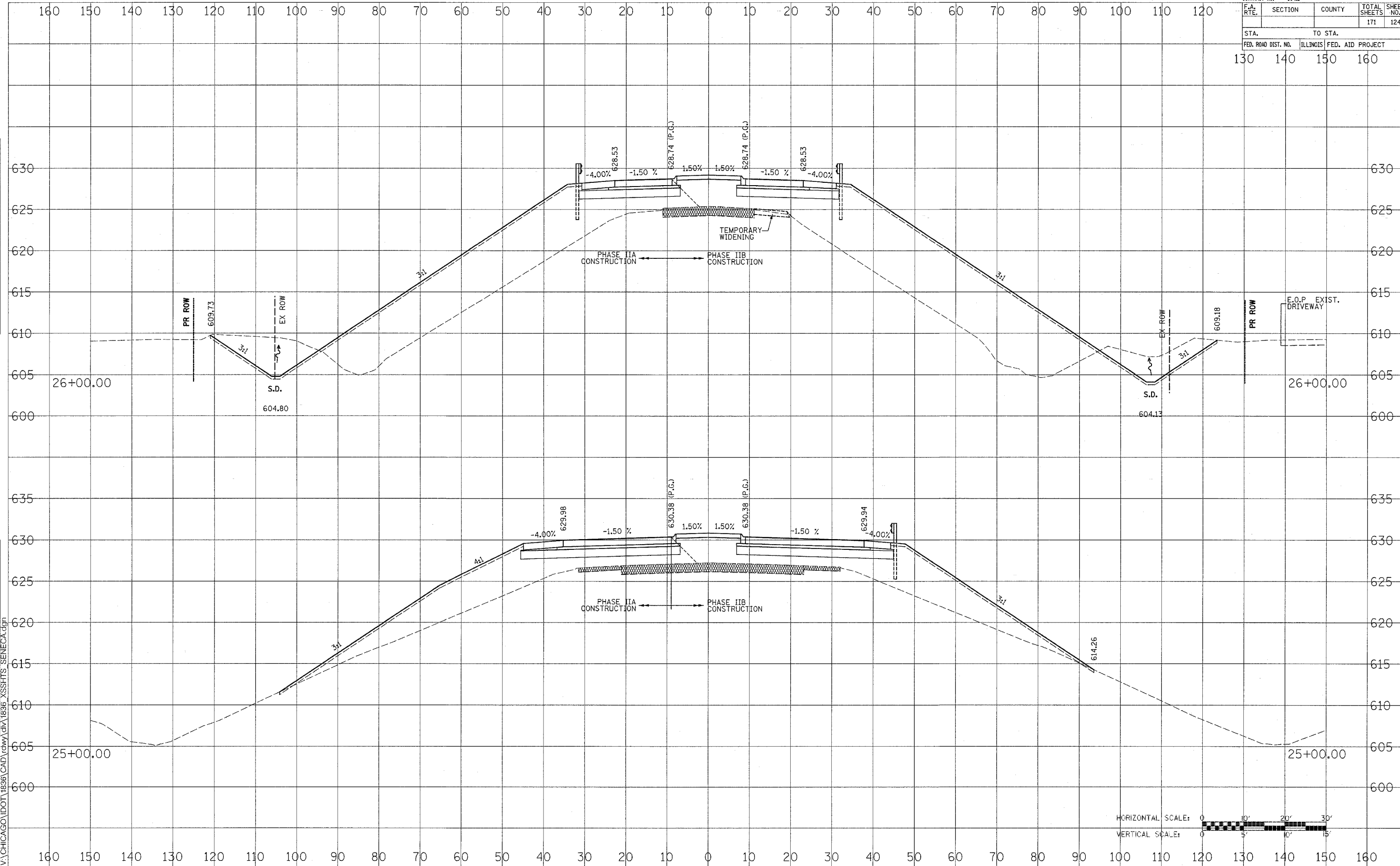


HORIZONTAL SCALE: 0 10' 20' 30'
 VERTICAL SCALE: 0 5' 10' 15'

FAP ROUTE 623 (SENECA ROAD)

DATE: _____ BY: _____
 SURVEYED: _____
 ORIGINAL SURVEY: _____
 NOTE BOOK: _____
 TEMPLATE: _____
 AREAS CHECKED: _____
 11/14/2005
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CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	124
STA. 130		TO STA. 160		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



FAP ROUTE 623 (SENECA ROAD)

DATE	BY
SURVEYED	
NOTE BOOK	
AREAS CHECKED	

DATE	BY
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHECKED	

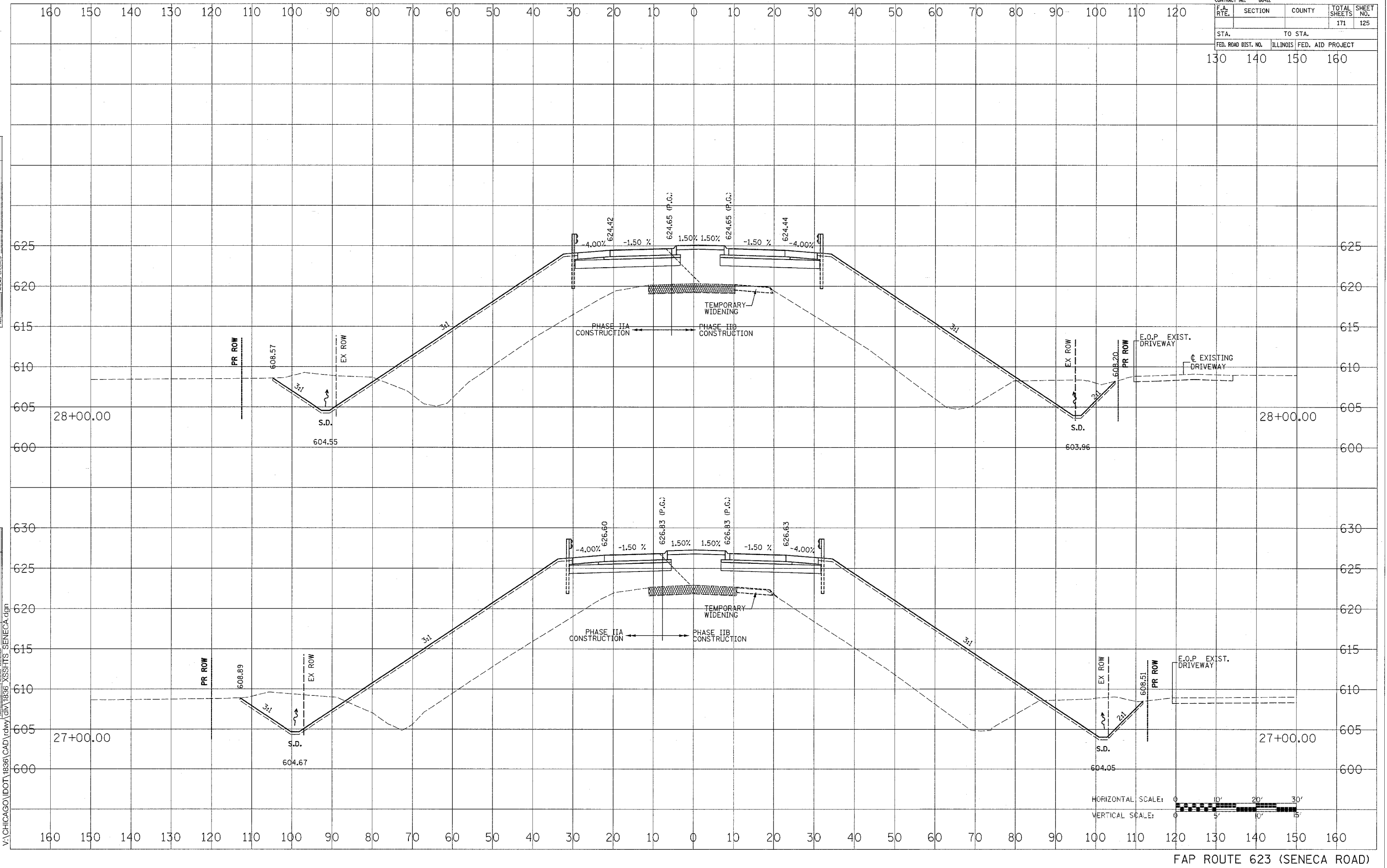
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CONTRACT NO. 66412			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
			171 125
STA.		TO STA.	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
130	140	150	160

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED

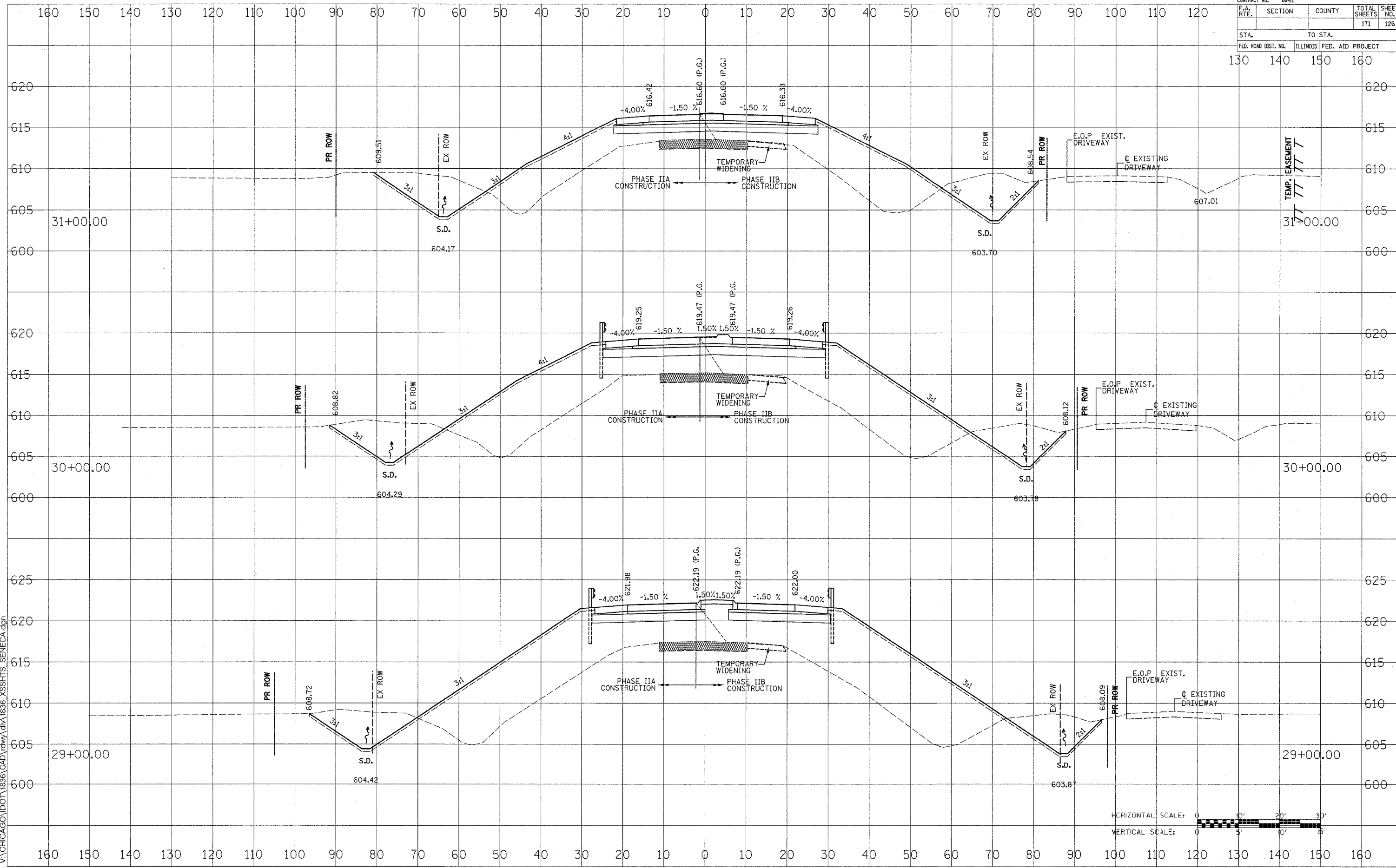
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED

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FAP ROUTE 623 (SENECA ROAD)

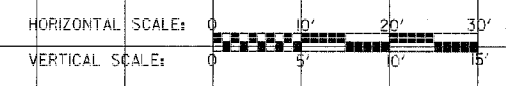
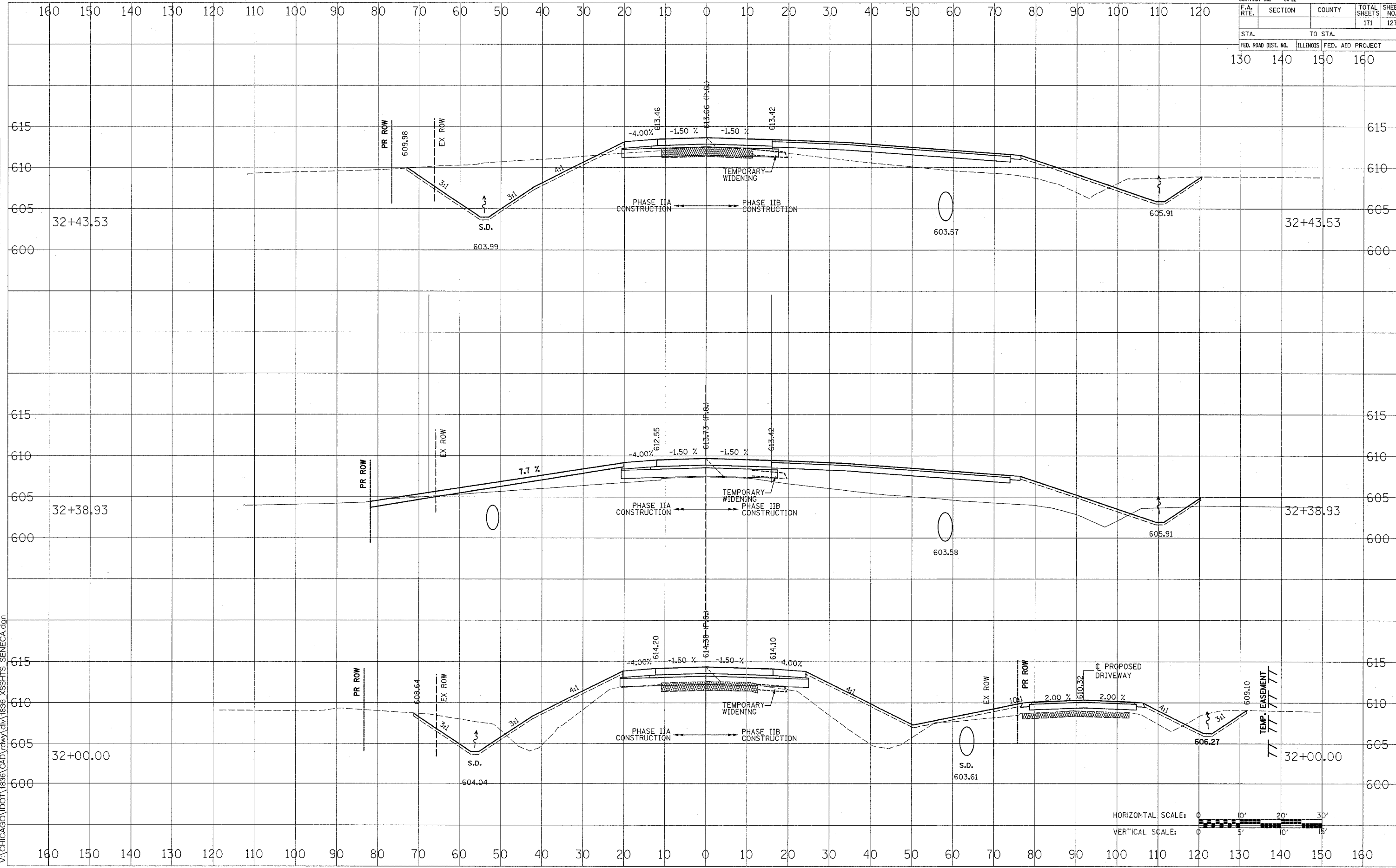
CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	126
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



FAP ROUTE 623 (SENECA ROAD)

DATE: _____ BY: _____
 SURVEYED: _____
 FINAL SURVEY: _____
 ORIGINAL SURVEY: _____
 11/14/2005
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CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	127
STA. 130		TO STA. 160		
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		



FAP ROUTE 623 (SENECA ROAD)

DATE	BY
SURVEYED	
NOTE BOOK	TEMPLATE
AREAS CHECKED	
NO.	

DATE	BY
ORIGINAL SURVEY	
NOTE BOOK	TEMPLATE
AREAS CHECKED	
NO.	

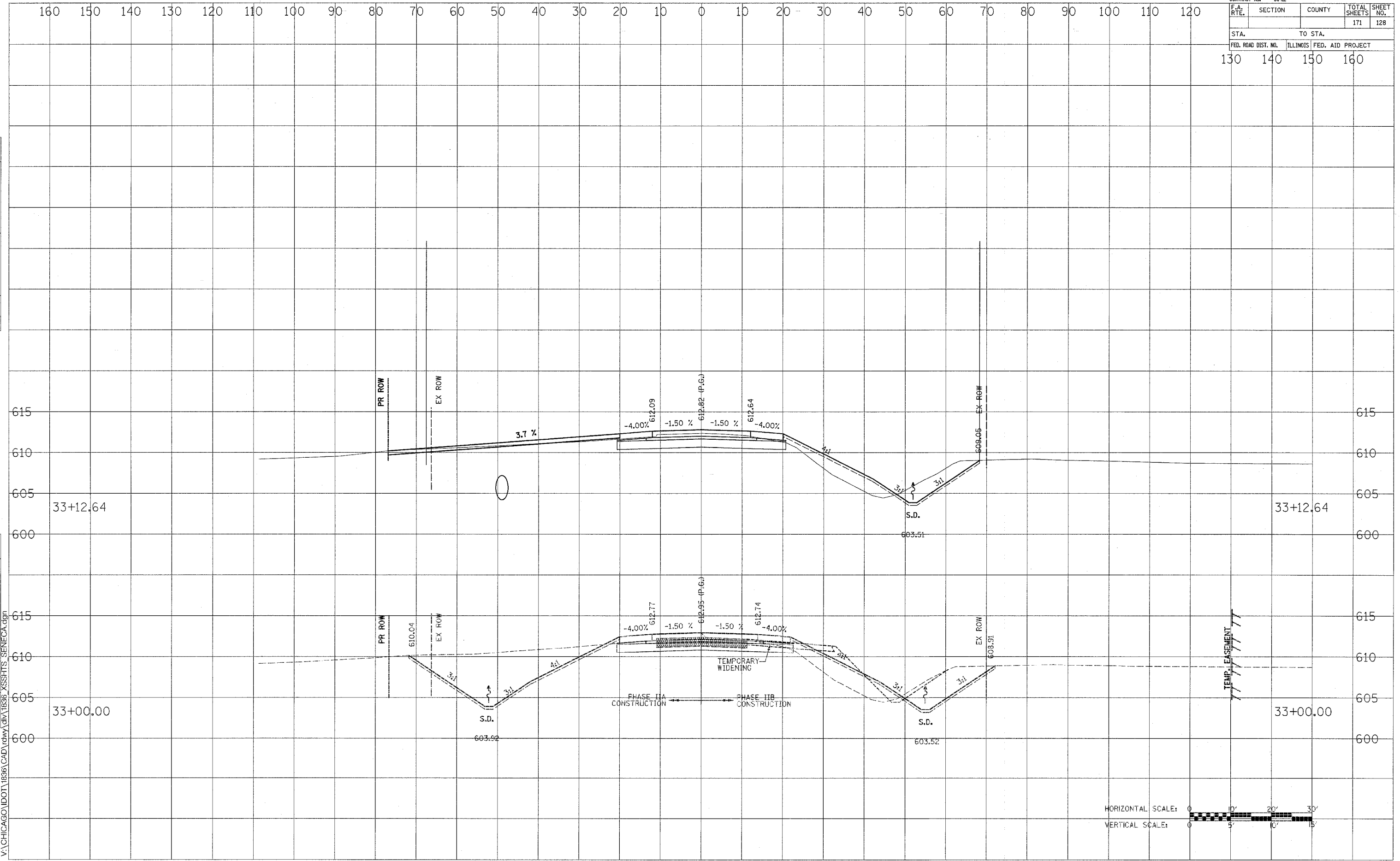
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CONTRACT NO. 66412			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			171
			SHEET NO. 128
STA. 130		TO STA. 160	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

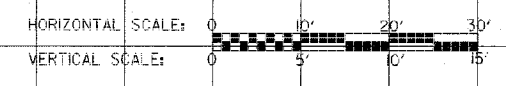
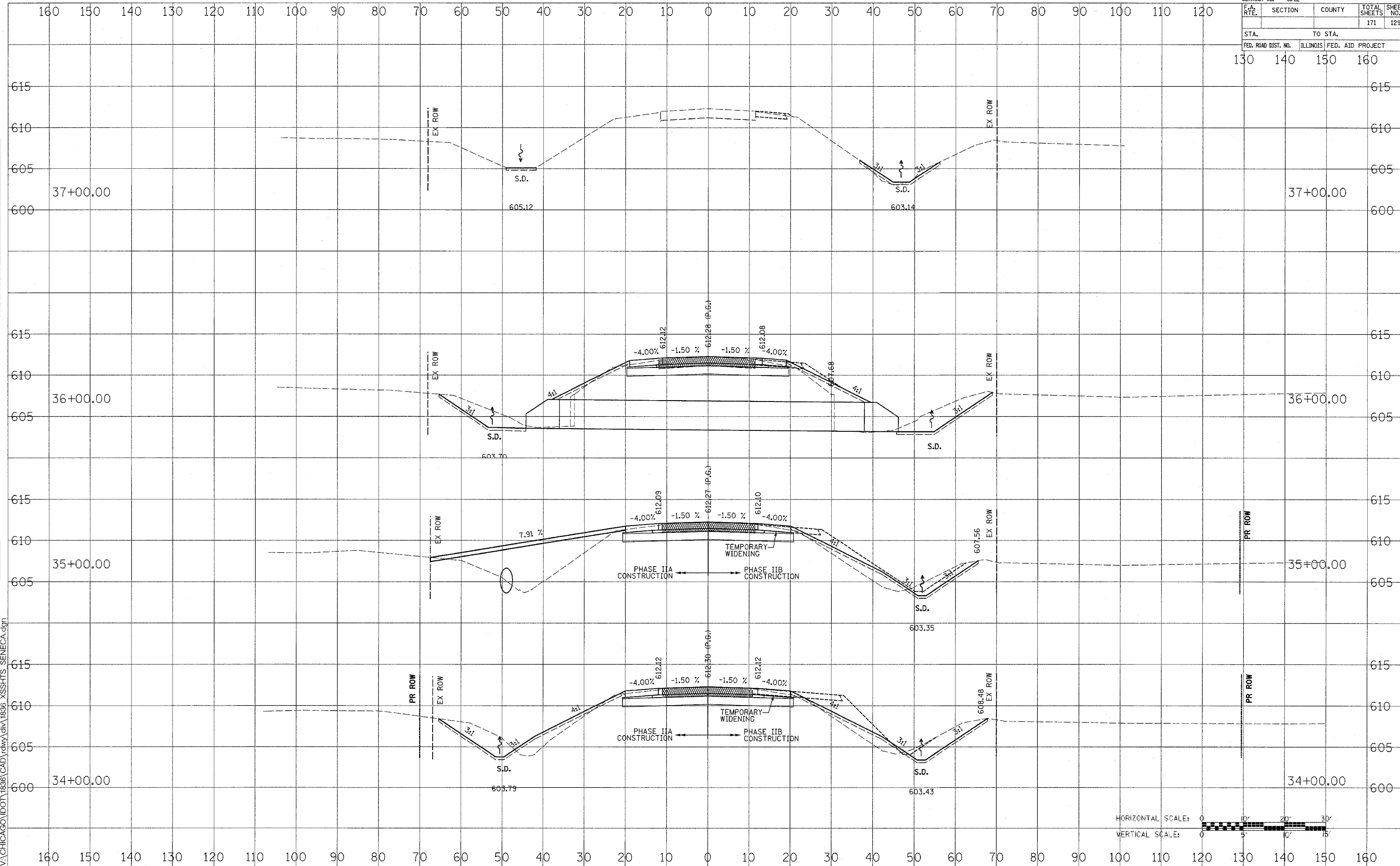
DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
TEMPLATE	
AREAS CHECKED	

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

11/14/2005
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CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	129
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	



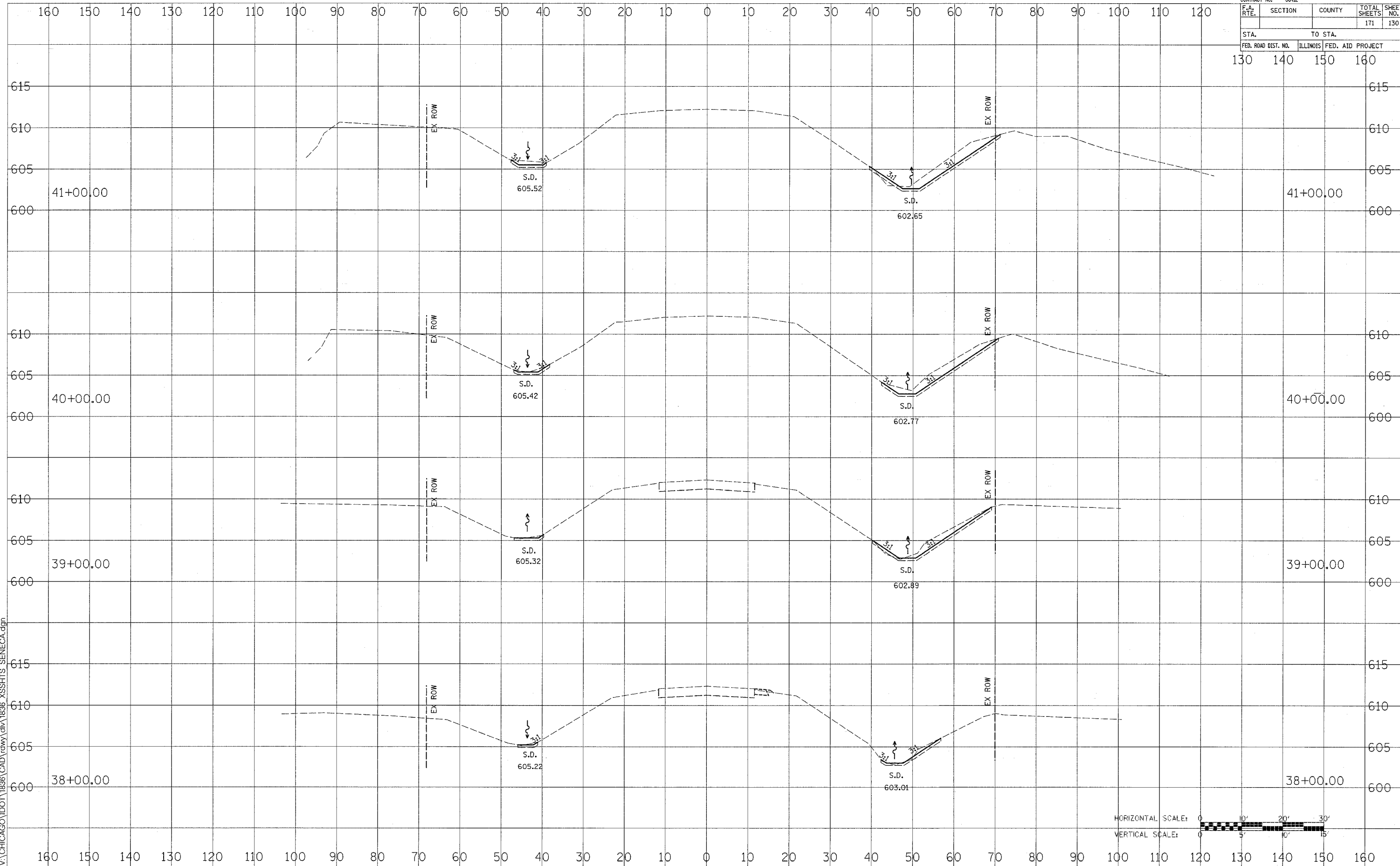
FAP ROUTE 623 (SENECA ROAD)

DATE	BY
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	BY
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

11/14/2005
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CONTRACT NO. 66412		TOTAL SHEETS 171		SHEET NO. 130	
F.A. RTE.	SECTION	COUNTY	TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		
130		140		150 160	



FAP ROUTE 623 (SENECA ROAD)

DATE: _____ BY: _____

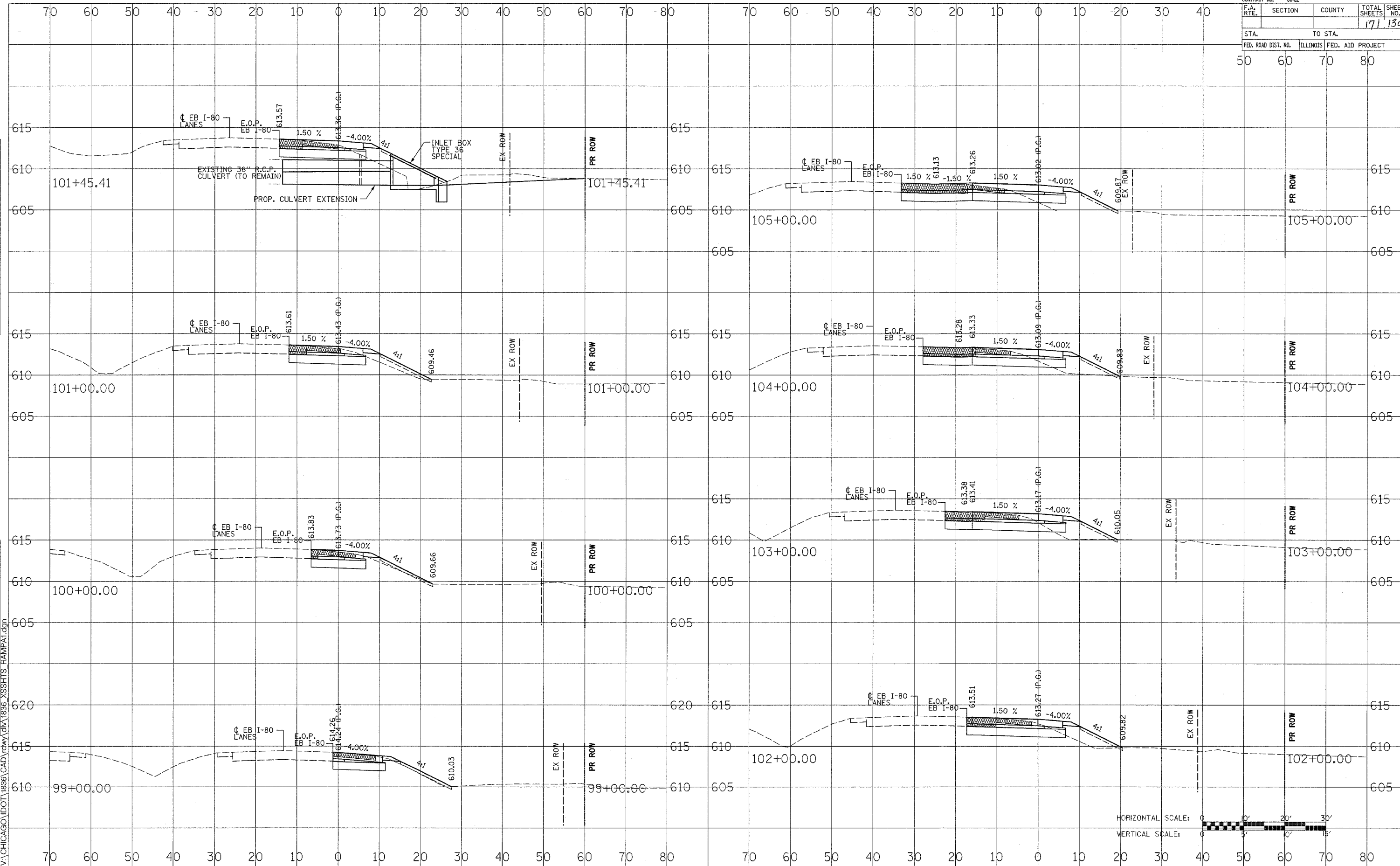
DATE: _____ BY: _____

DATE: _____ BY: _____

DATE: _____ BY: _____

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CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	130A
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
50	60	70	80	



DATE _____ BY _____
 SURVEYED _____
 FINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

DATE _____ BY _____
 SURVEYED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

11/14/2005
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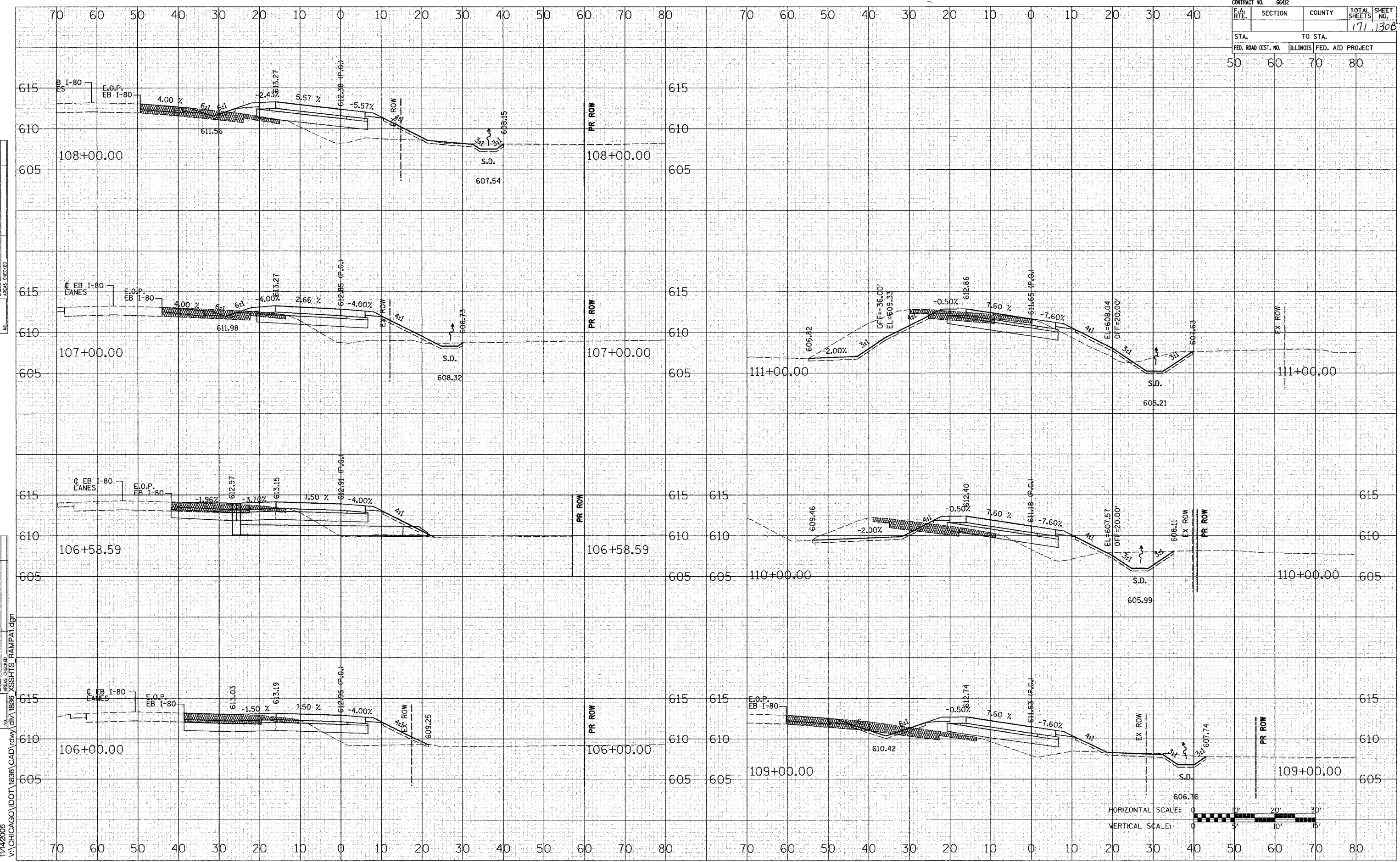
PROPOSED RAMP A

CONTRACT NO. 6642				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	1306
STA.		TO STA.		
50		80		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
50 60 70 80				

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY



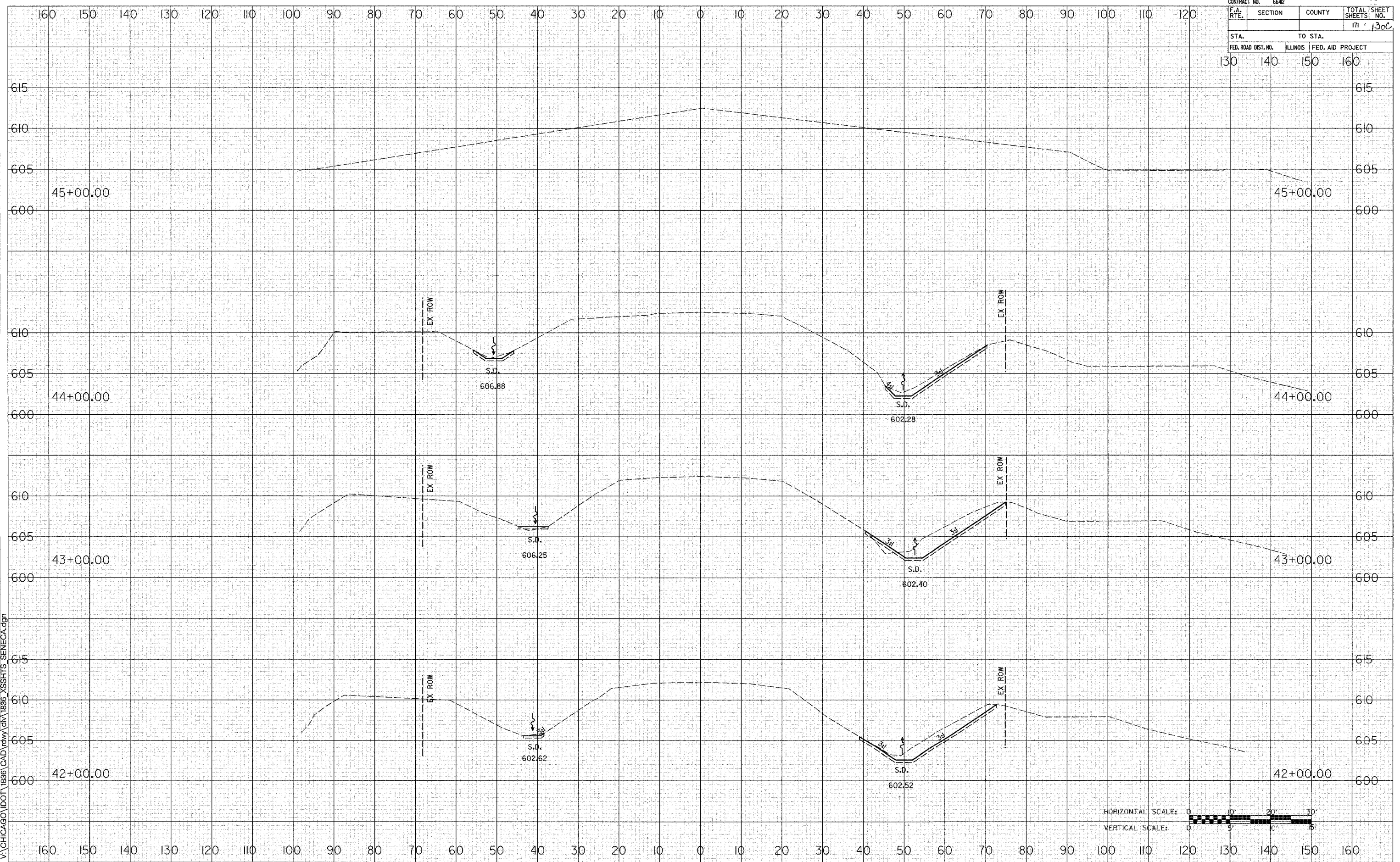
PROPOSED RAMP A

CONTRACT NO. 6642		130C	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			130C
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
130	140	150	160

DATE
BY
SURVEYED
SHEET NO.
NOTE BOOK
NO.

DATE
BY
SURVEYED
SHEET NO.
NOTE BOOK
NO.

12/5/2005
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FAP ROUTE 623 (SENECA ROAD)

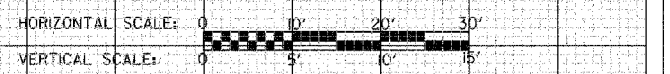
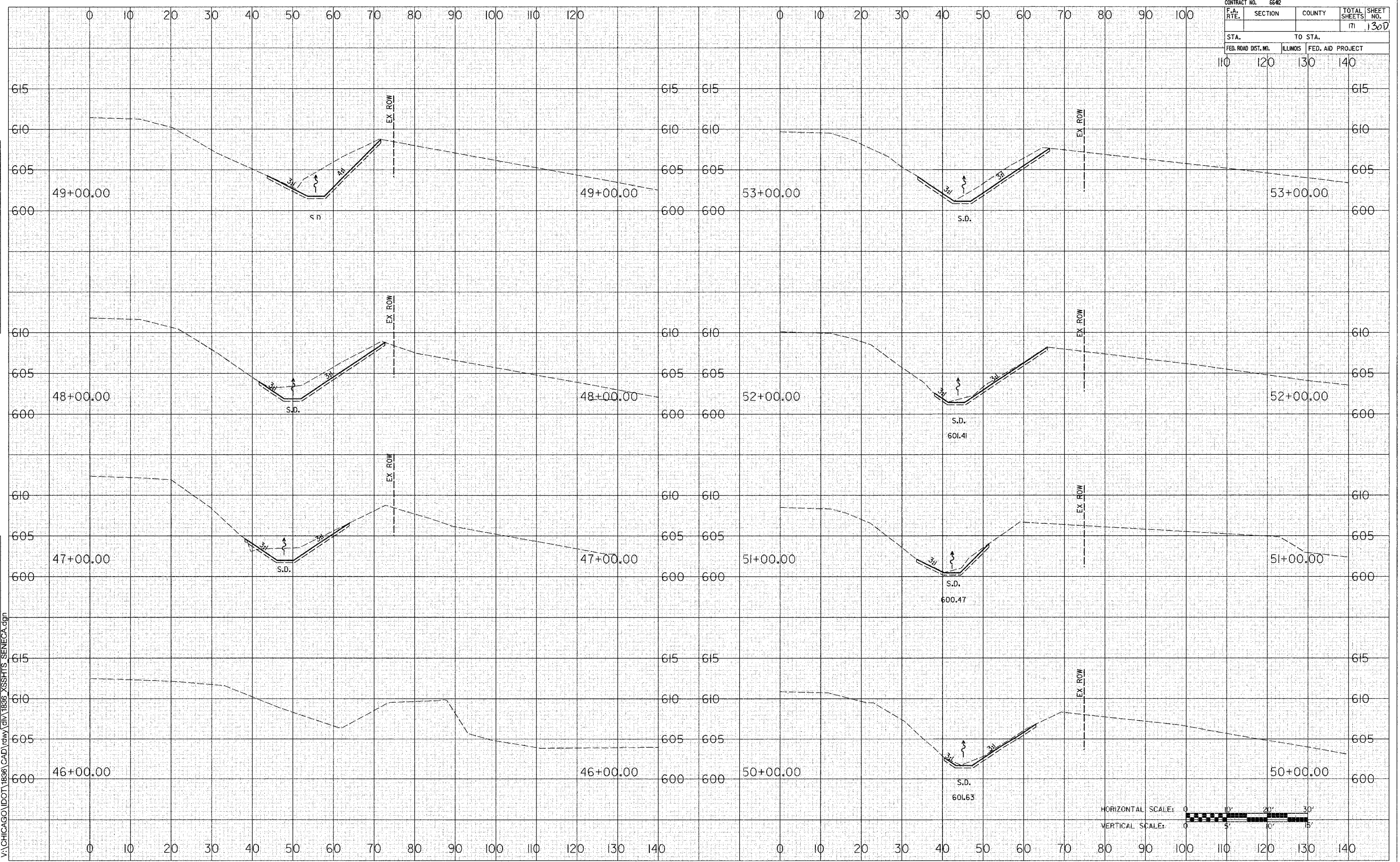
1300

CONTRACT NO. 6642			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			171
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
110	120	130	140

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

BY	DATE
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
ORIGINAL SURVEY	
NOT FOR	
NO.	

12/5/2005
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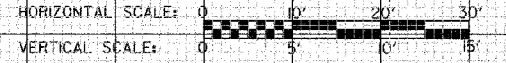
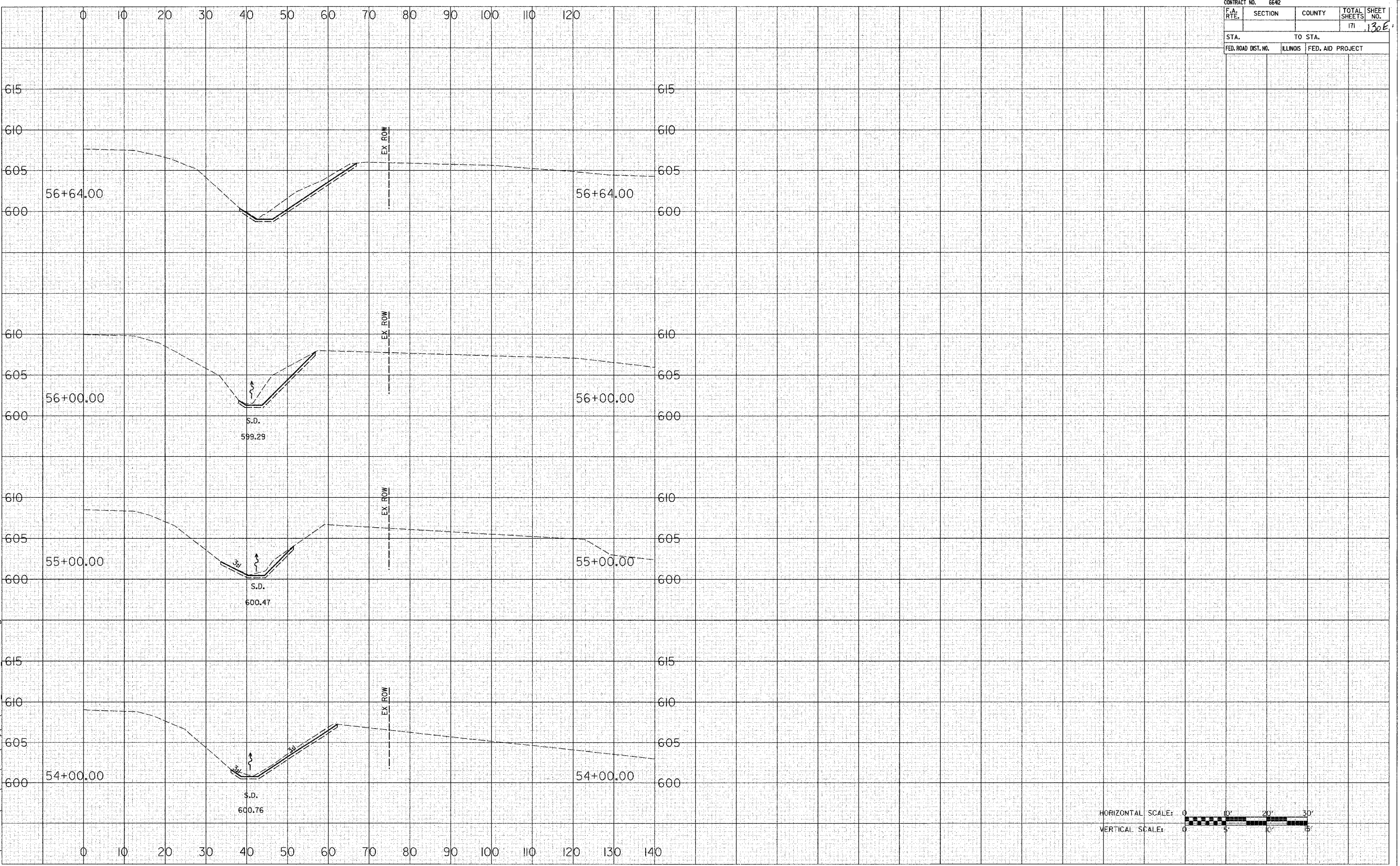
FAP ROUTE 623 (SENECA ROAD)

CONTRACT NO. 6642				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	130E
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLNOIS	FED. AID PROJECT		

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

DATE	BY
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	
ORIGINAL SURVEY	
NOT BOOK	
NO.	

12/5/2005
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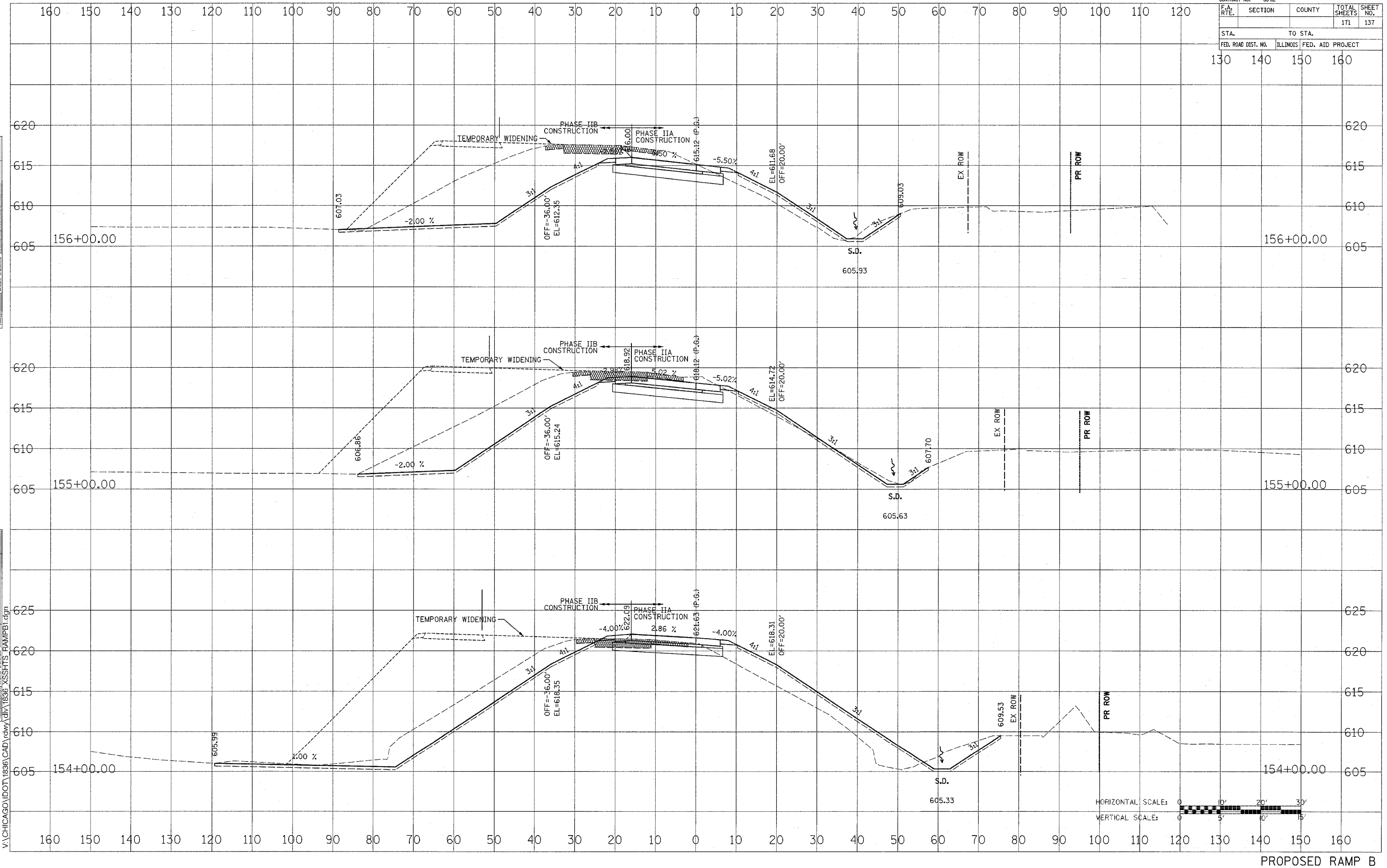
FAP ROUTE 623 (SENECA ROAD)

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	137
STA.		TO STA.		
130		160		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	BY
SURVEYED	PLOTTED
NO. _____	NO. _____
AREAS CHECKED	AREAS CHECKED

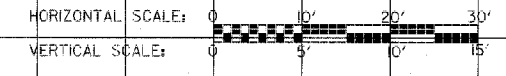
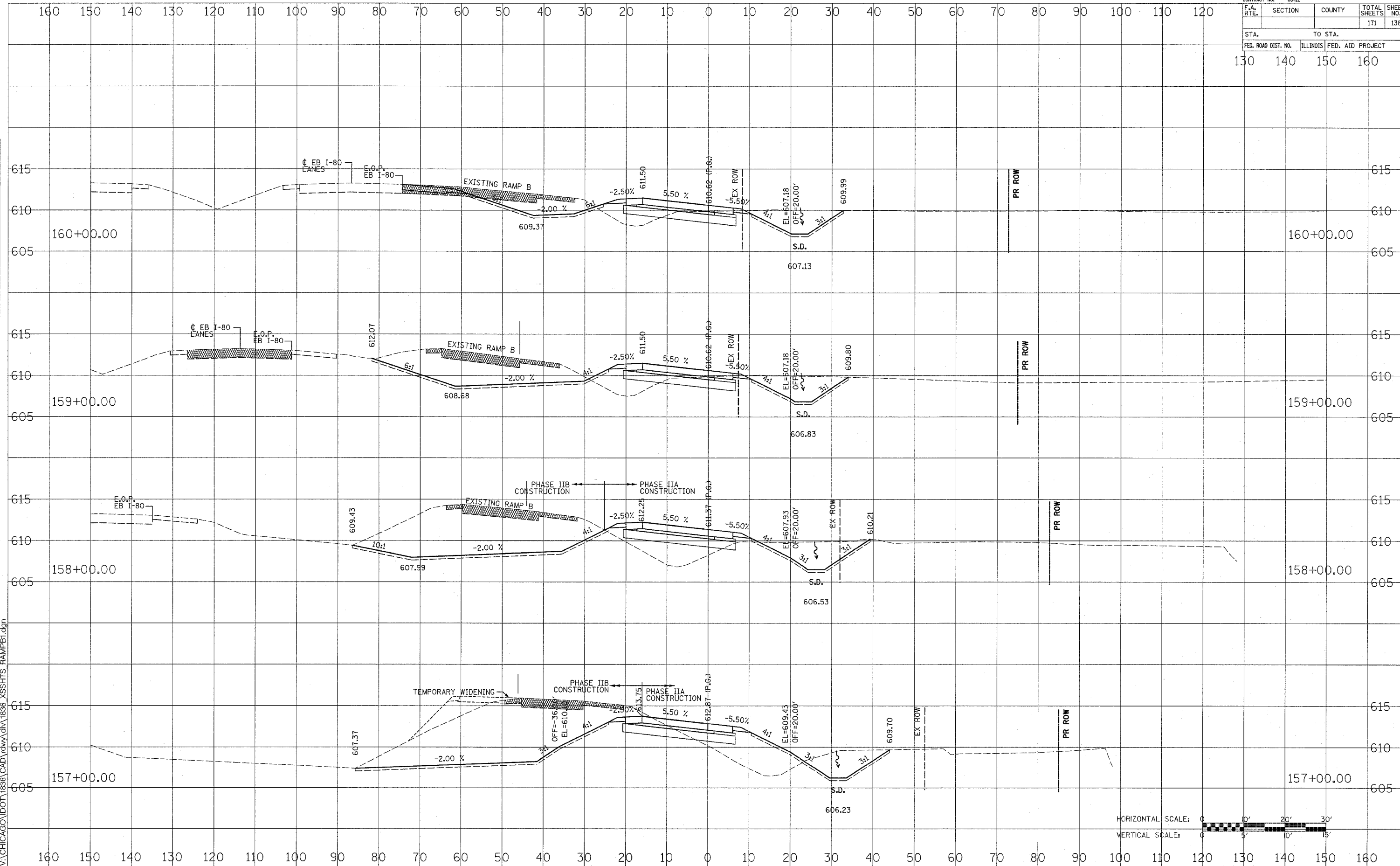
DATE	BY
SURVEYED	PLOTTED
NO. _____	NO. _____
AREAS CHECKED	AREAS CHECKED

11/14/2005
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PROPOSED RAMP B

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	138
STA. 130		TO STA. 160		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PROPOSED RAMP B

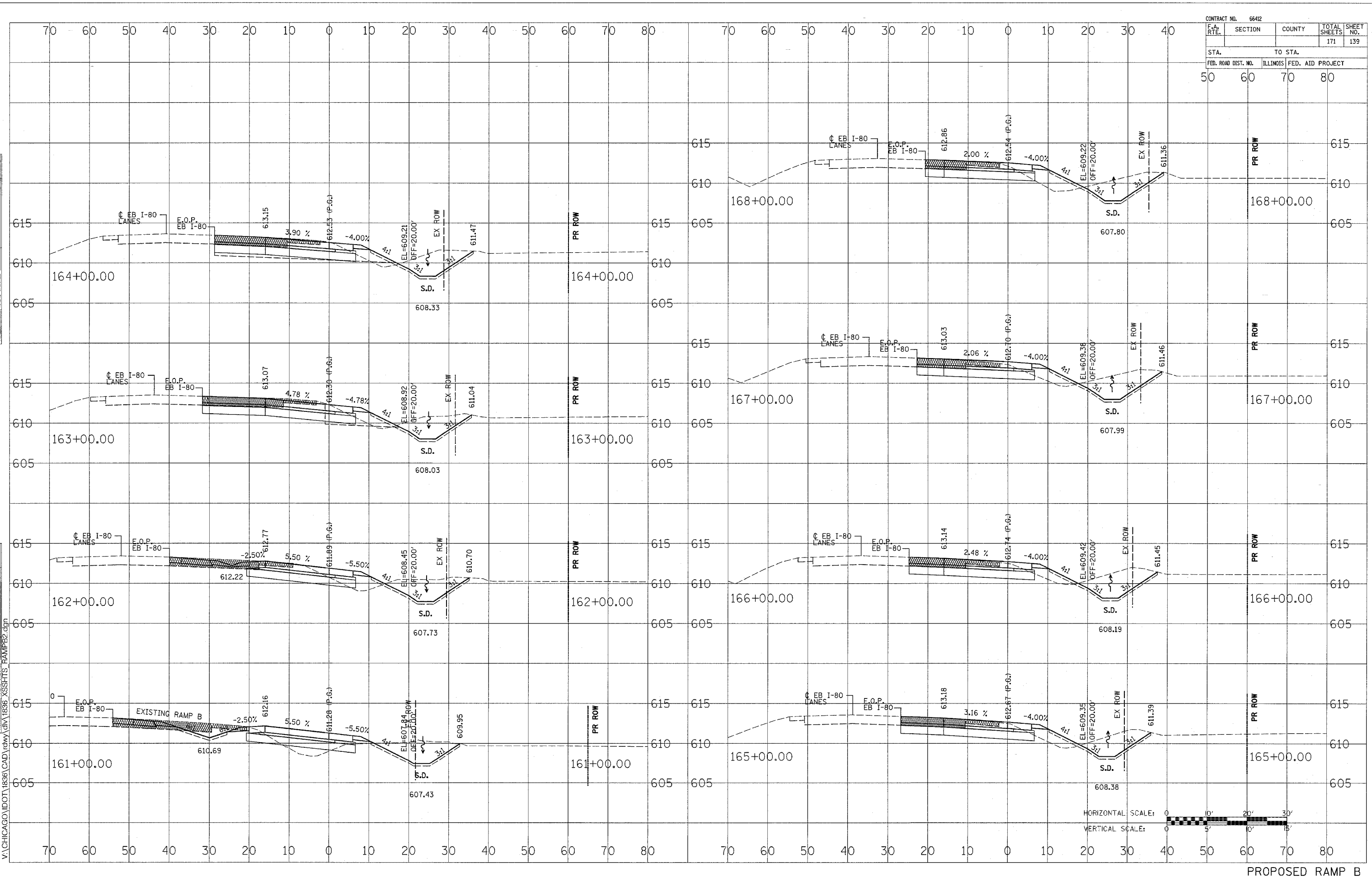
DATE: _____ BY: _____
 SURVEYED: _____
 FINAL SURVEY: _____
 NOTE BOOK: _____
 TEMPLATE: _____
 AREAS CHECKED: _____
 11/14/2005
 V:\CHICAGO\DOT\1836\CAD\rdwy\DIV\1836_XSSHITS_RAMPB1.dgn

CONTRACT NO. 66412		TOTAL SHEETS 171		SHEET NO. 139	
F.A. RTE.	SECTION	COUNTY	ILLINOIS FED. AID PROJECT		
STA. 50		TO STA. 80			
FED. ROAD DIST. NO.					

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 CHECKED _____
 AREAS CHECKED _____

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 CHECKED _____
 AREAS CHECKED _____

11/4/2005
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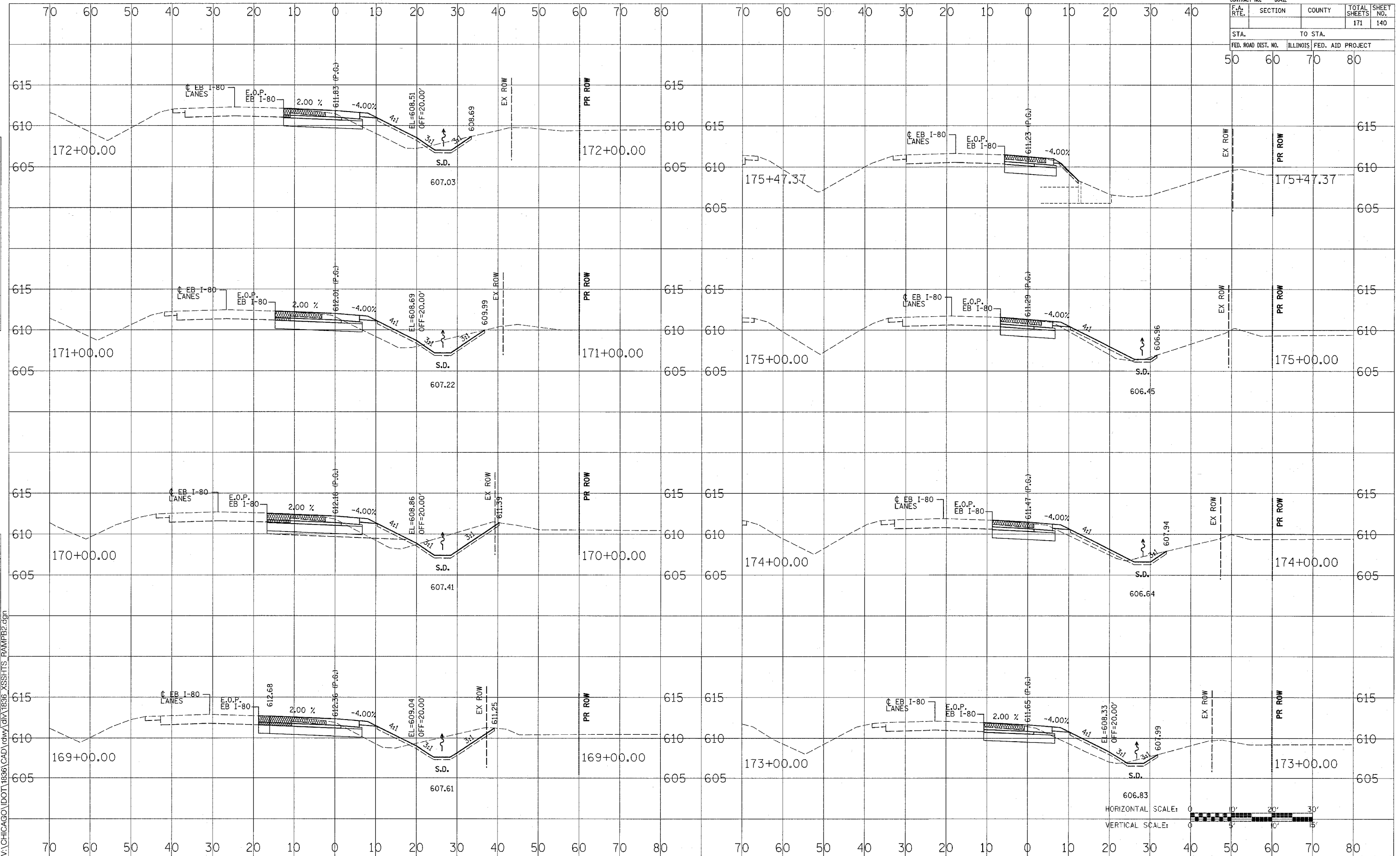
PROPOSED RAMP B

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	140
STA. 50		TO STA. 80		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

DATE	BY
DATE	BY
DATE	BY
DATE	BY

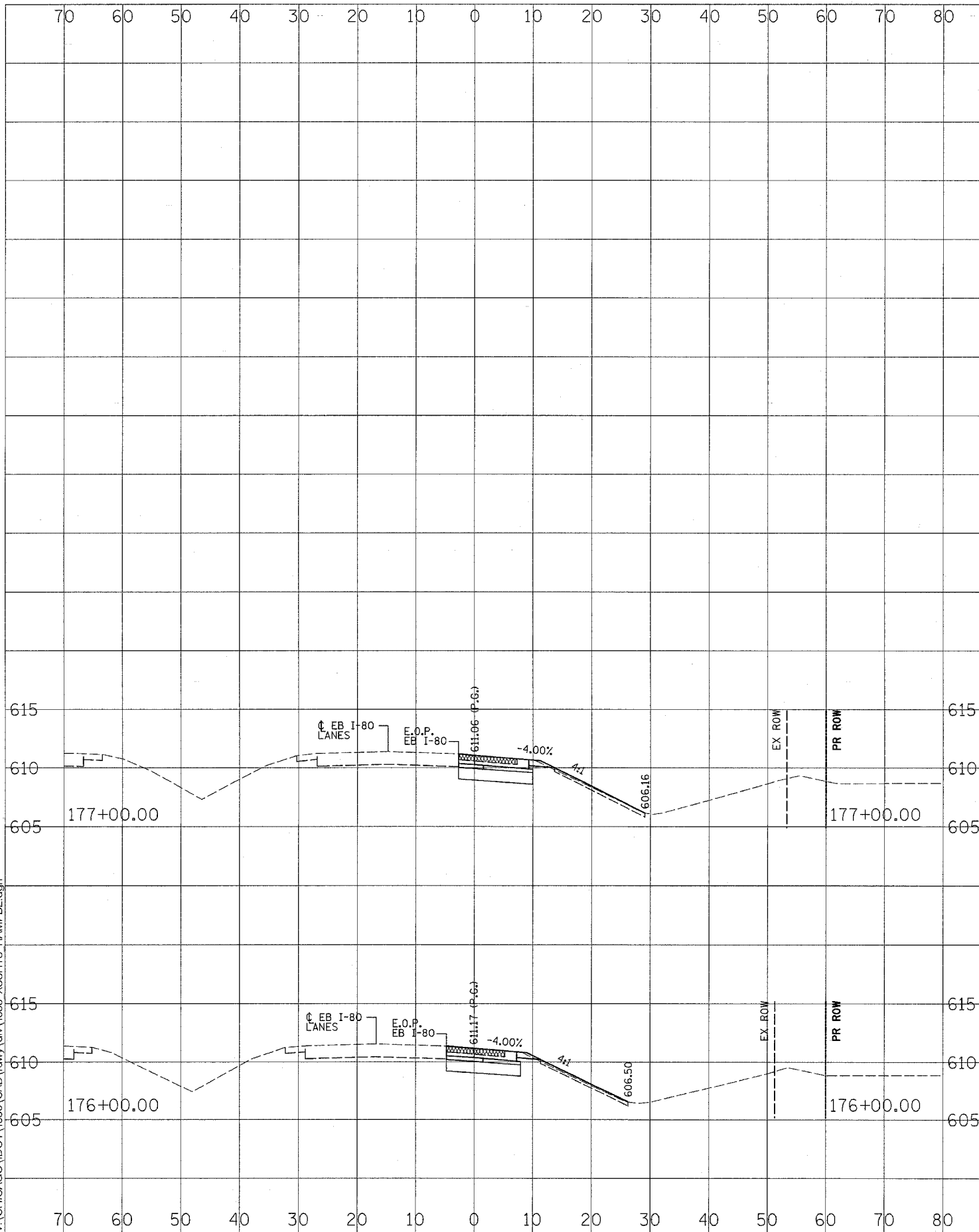
DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY



PROPOSED RAMP B

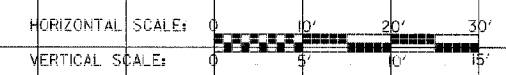
CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	141
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DATE	BY
SURVEYED	DATE
NOTE BOOK	NO.
AREAS CHECKED	

DATE	BY
SURVEYED	DATE
NOTE BOOK	NO.
AREAS CHECKED	

11/4/2005
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PROPOSED RAMP B

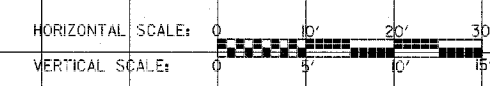
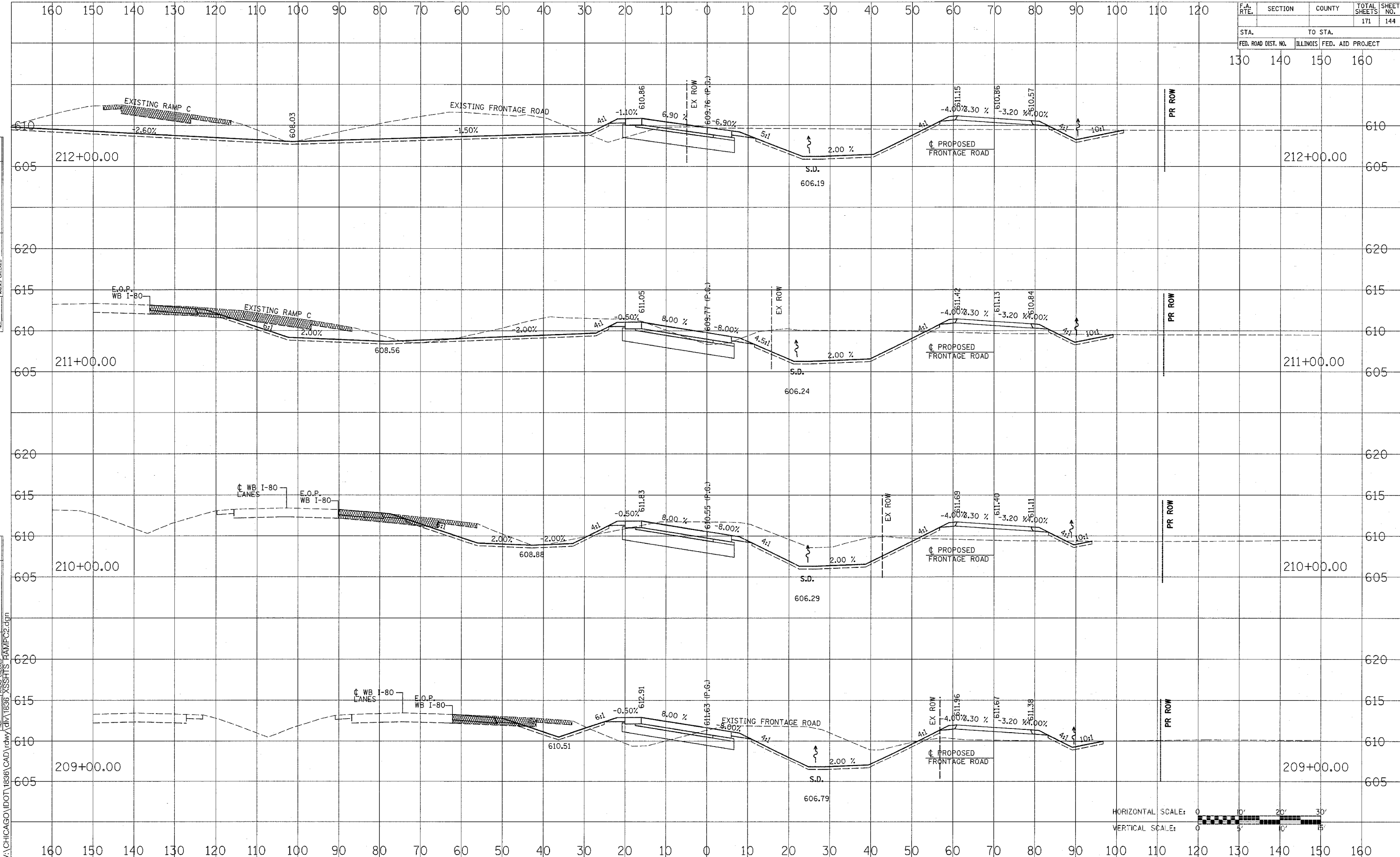
CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	144
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
130 140		150 160		

DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
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DATE	BY

DATE	BY
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DATE	BY



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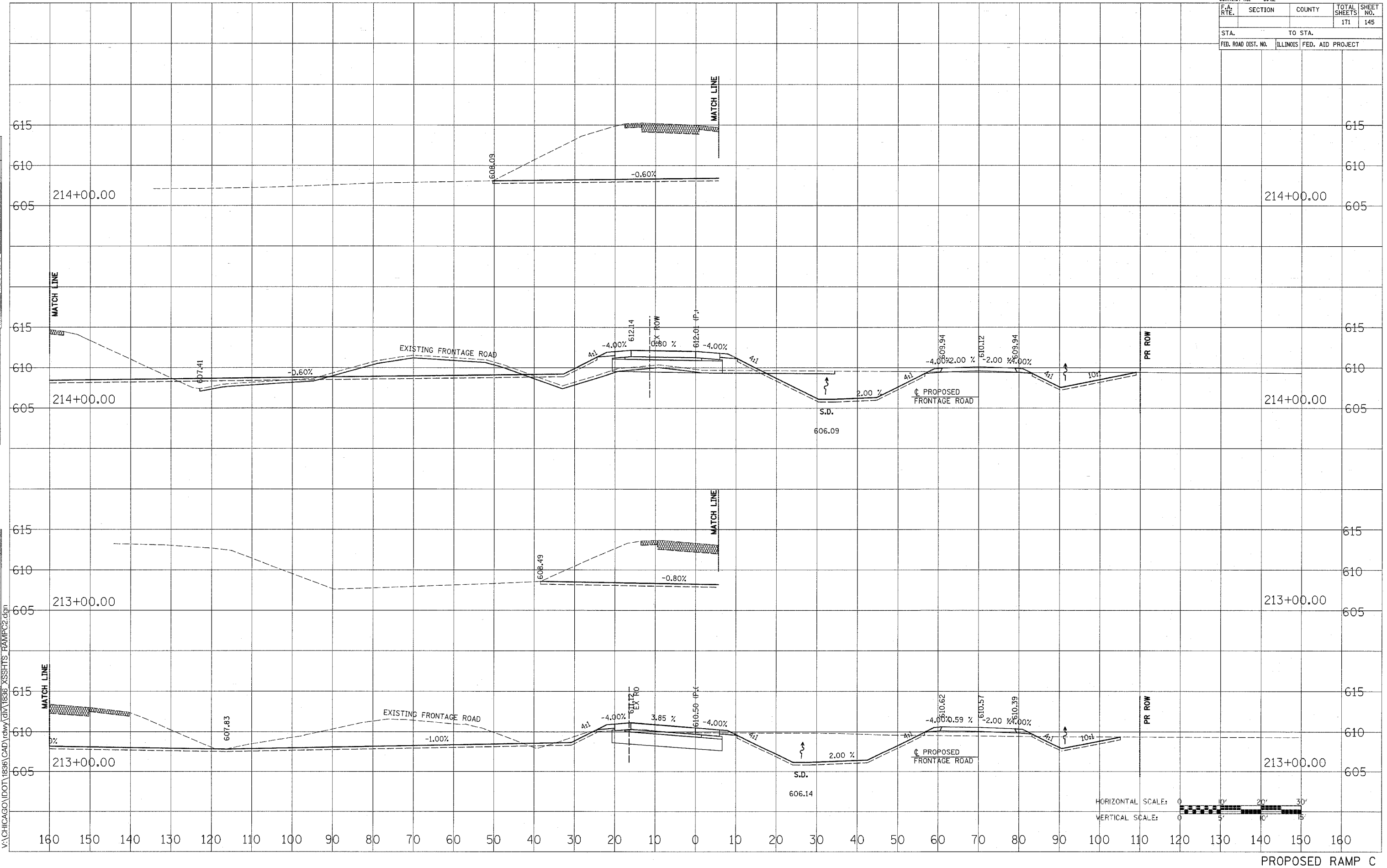
PROPOSED RAMP C

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	145
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

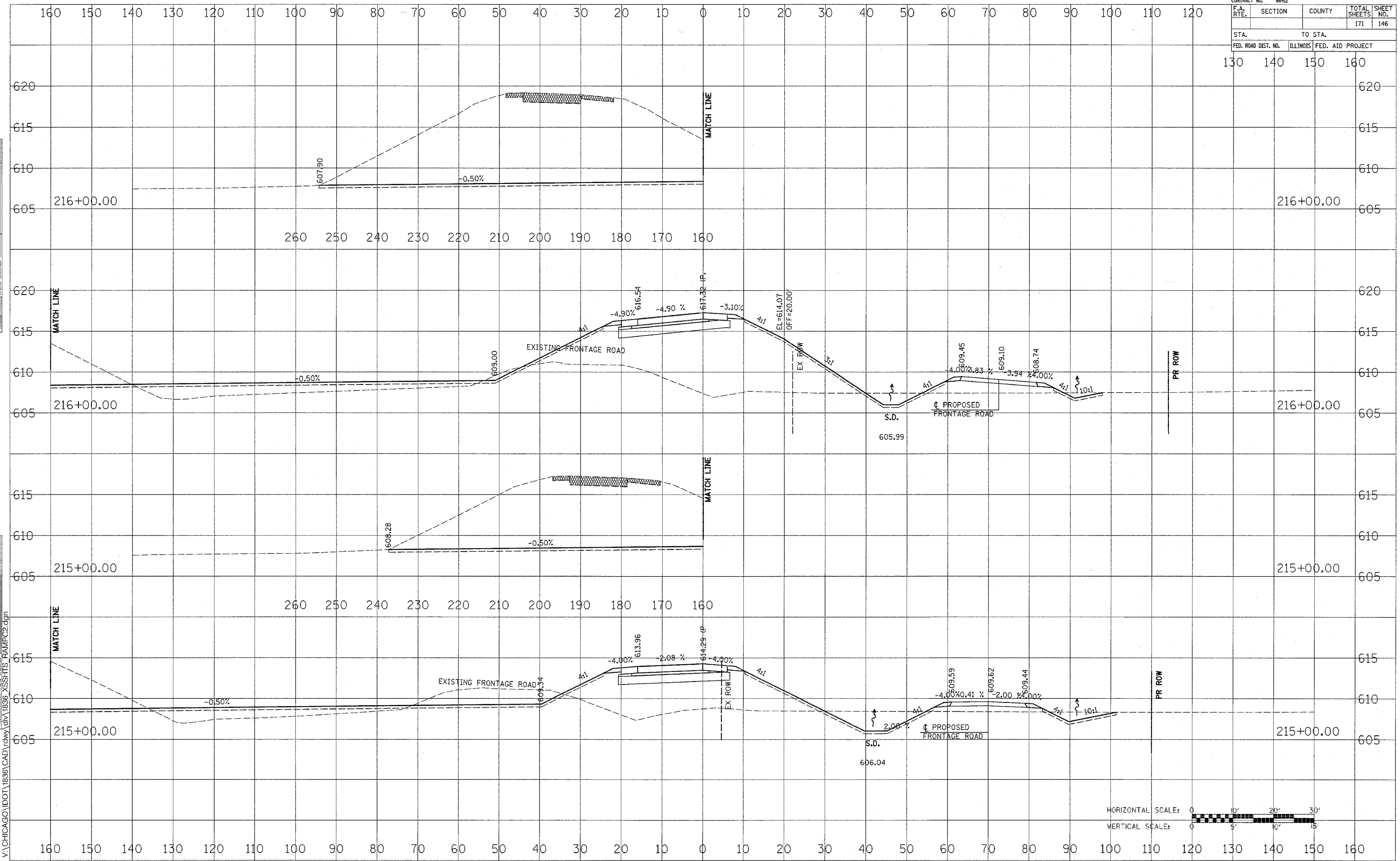
DATE	BY
SURVEYED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

11/4/2005
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PROPOSED RAMP C

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	146
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
130	140	150	160	



PROPOSED RAMP C

DATE: _____
 BY: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

DATE: _____
 BY: _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____

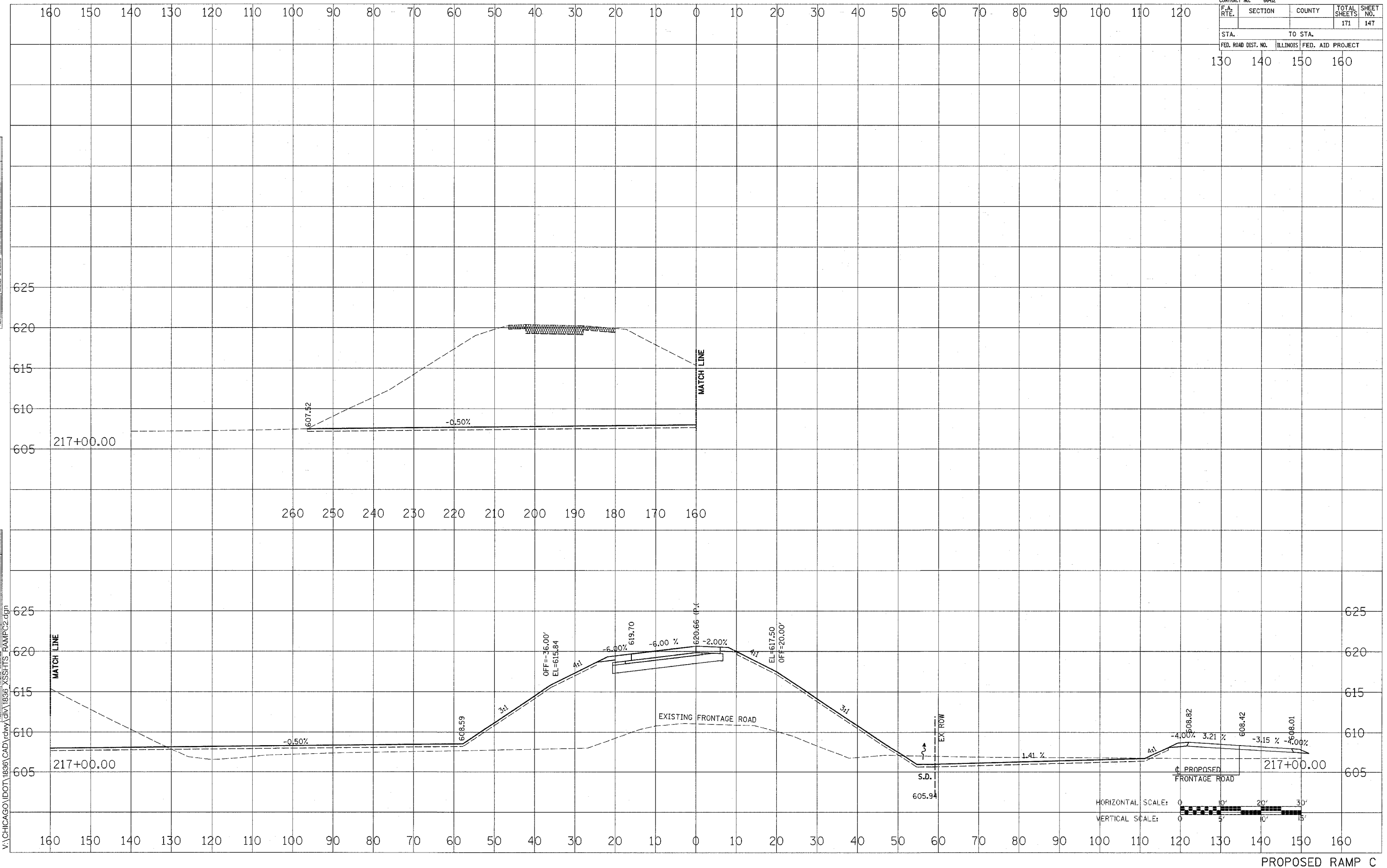
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CONTRACT NO. 66412			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			171
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	
	130	140	150 160

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	

11/4/2005
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 VERTICAL SCALE: 0 5' 10' 15'

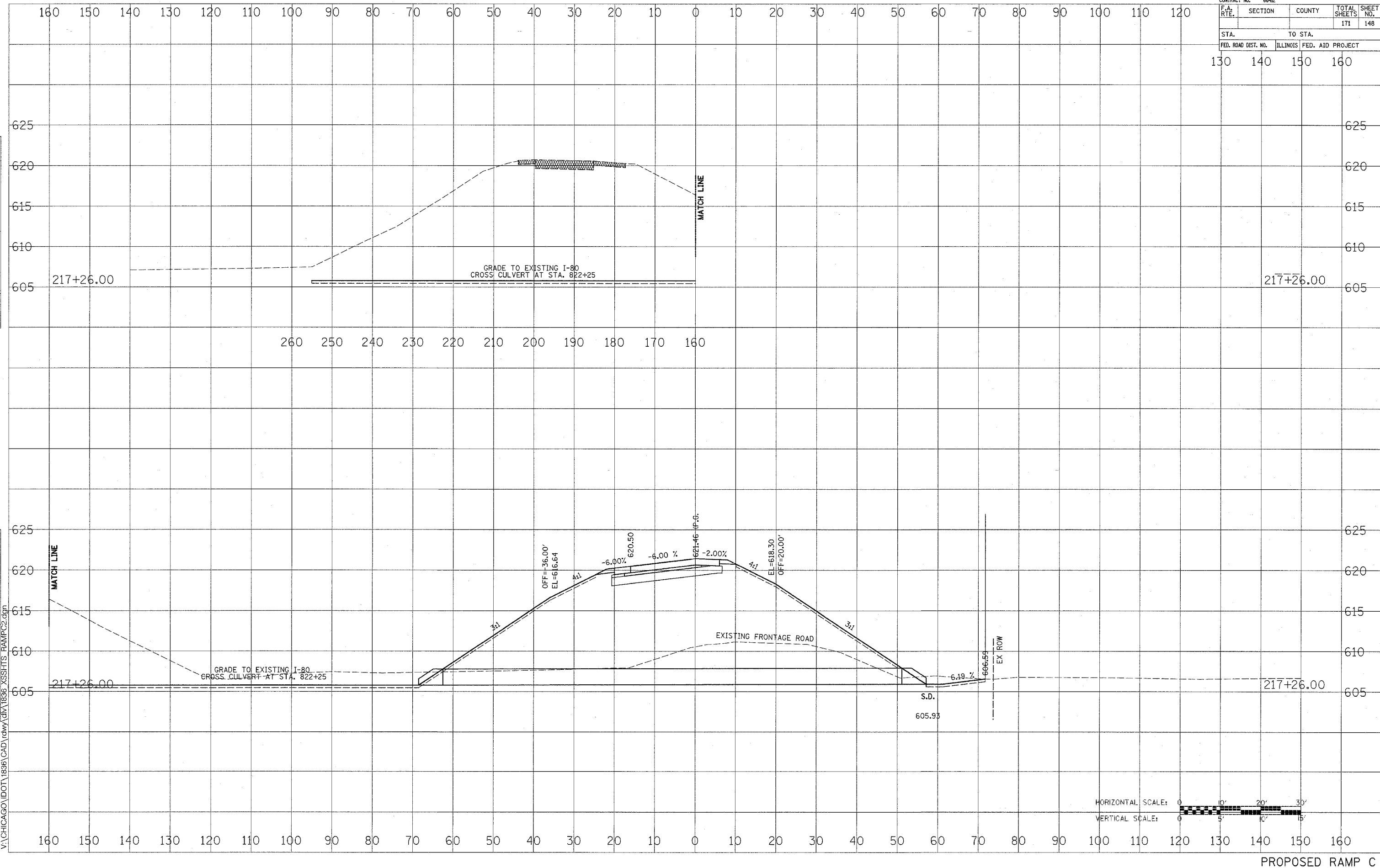
PROPOSED RAMP C

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	148
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	160	

DATE	BY
SURVEYED	DATE
NOTE BOOK	NO.
AREAS CHECKED	

DATE	BY
SURVEYED	DATE
NOTE BOOK	NO.
AREAS CHECKED	

11/14/2005
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HORIZONTAL SCALE: 1" = 30'
 VERTICAL SCALE: 1" = 15'

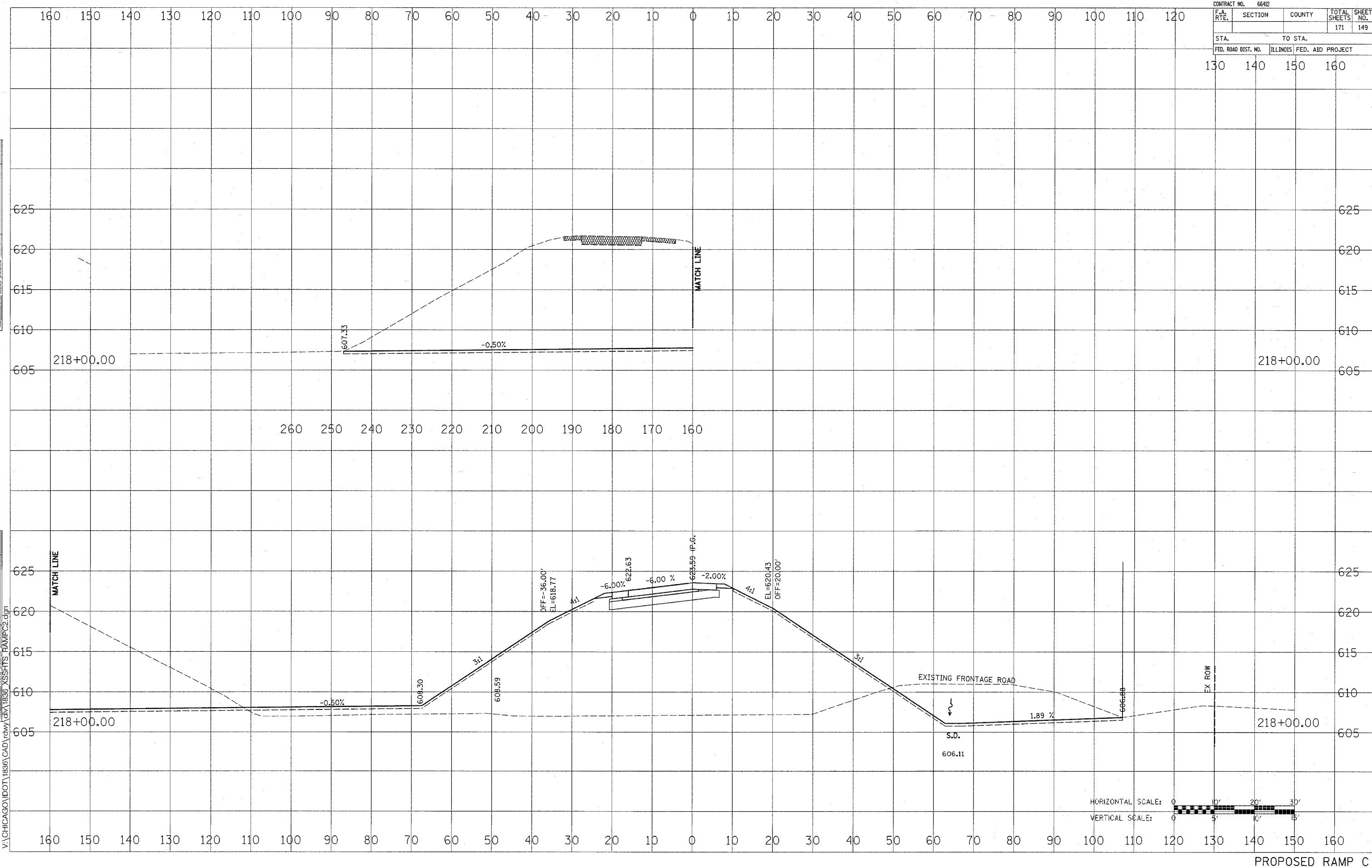
PROPOSED RAMP C

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	149
STA.		TO STA.		
130		160		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE	BY
SURVEYED	PLOTTED
DATE	DATE
AREAS CHECKED	AREAS CHECKED
NO.	NO.

DATE	BY
SURVEYED	PLOTTED
DATE	DATE
AREAS CHECKED	AREAS CHECKED
NO.	NO.

11/4/2005
V:\CHICAGO\DOT\1836\CAD\rdwy\DIV1836_XSSHYS_RAMPC2.dgn

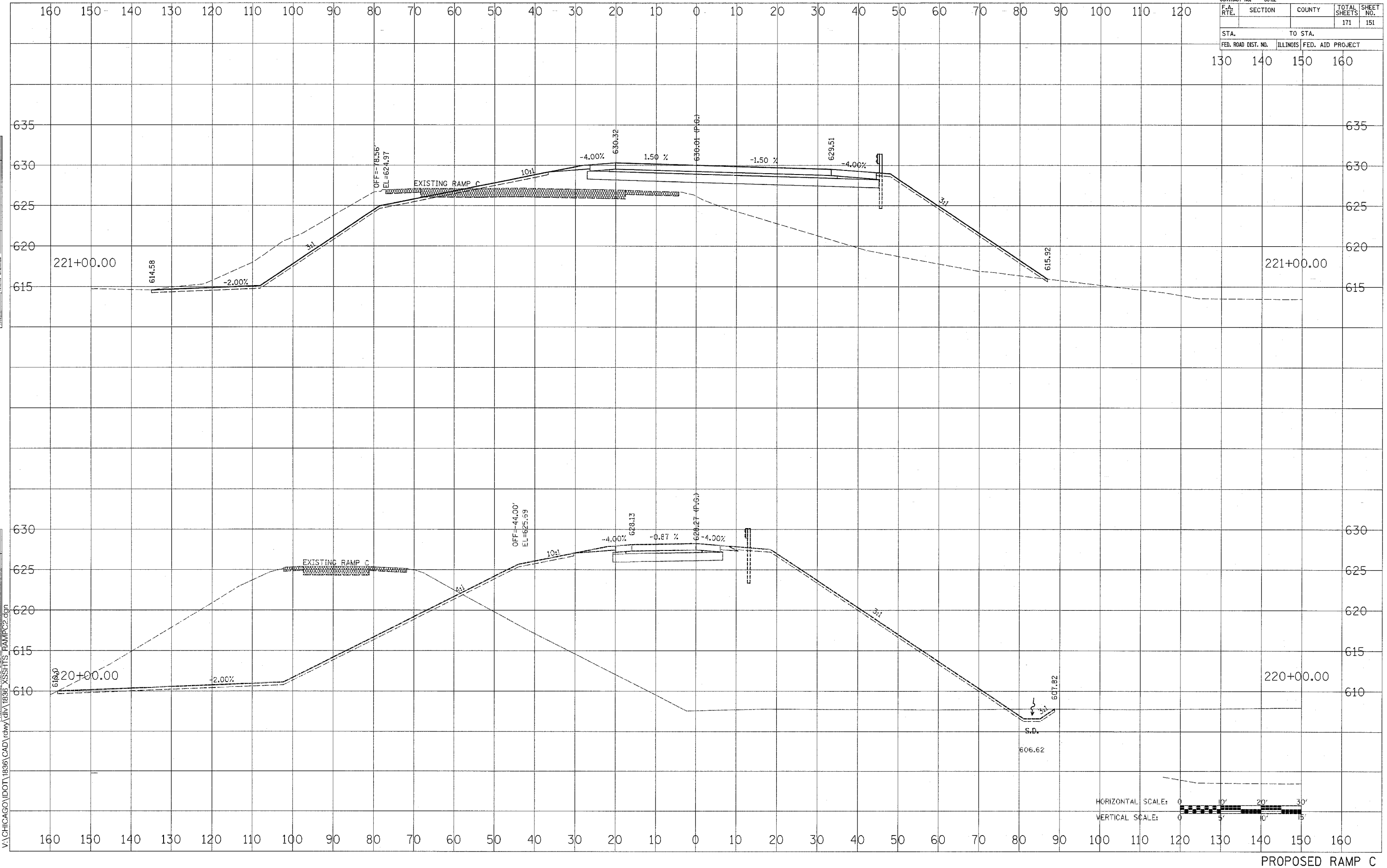


CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	151
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
130	140	150	160	

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

11/4/2005
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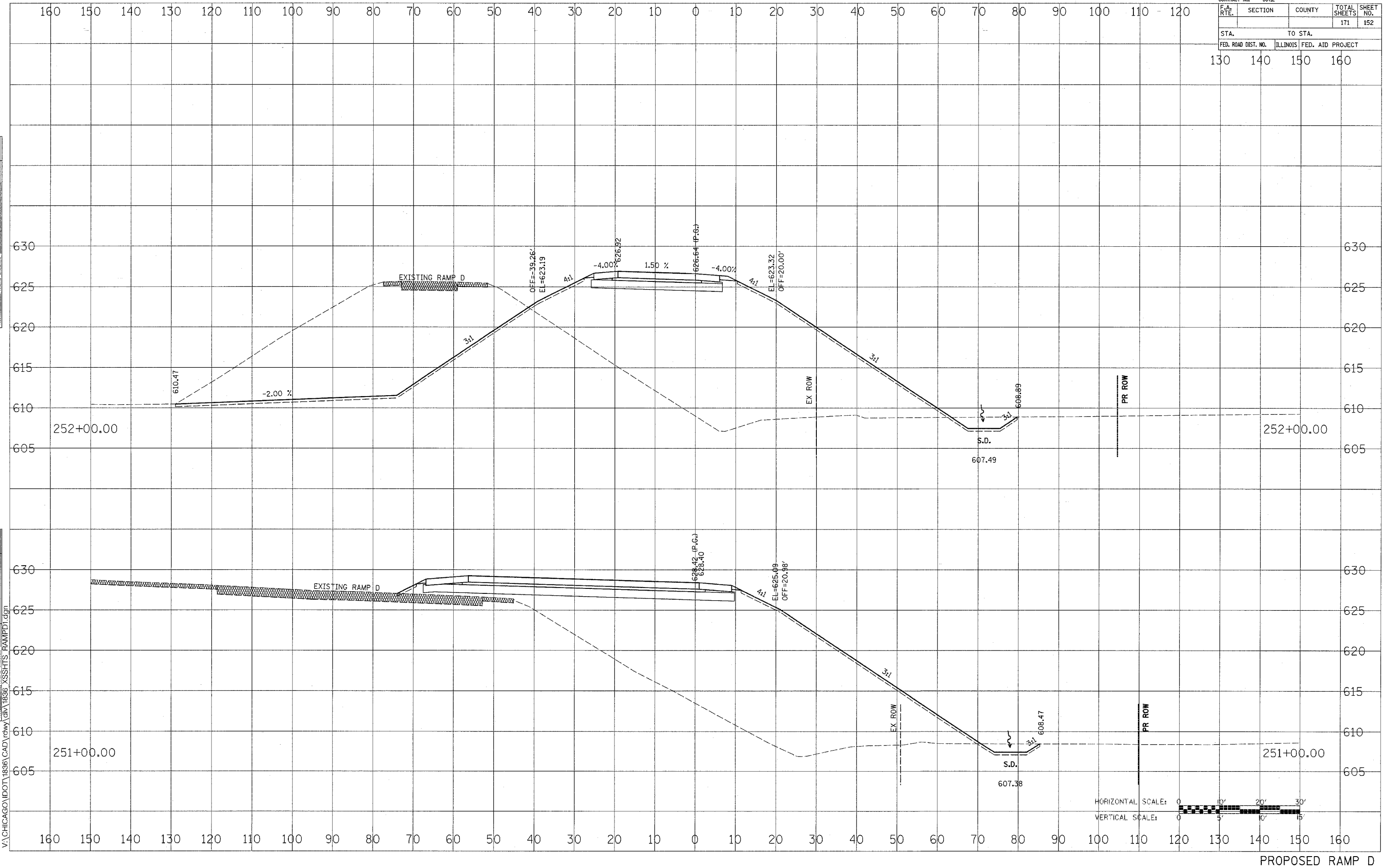
PROPOSED RAMP C

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	152
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
130	140	150	160	

DATE	
BY	
FINAL SURVEY	
NOTED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

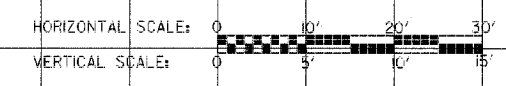
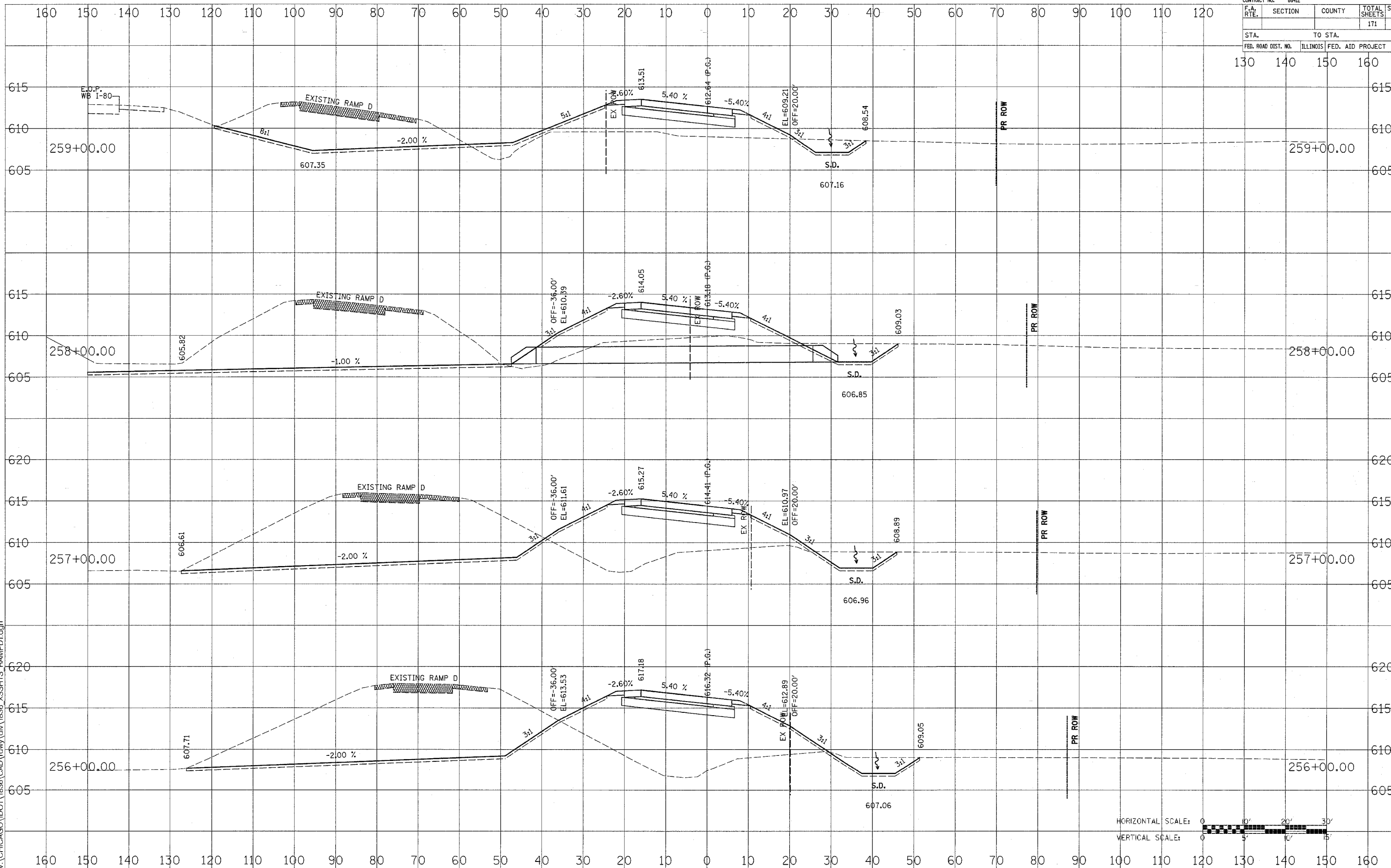
DATE	
BY	
ORIGINAL SURVEY	
NOTED	
PLOTTED	
DATE	
AREAS CHECKED	
NO.	

11/4/2005
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PROPOSED RAMP D

CONTRACT NO. 66412		TOTAL SHEETS 171		SHEET NO. 154	
F.A. RTE.	SECTION	COUNTY	ILLINOIS FED. AID PROJECT		
STA. 130		TO STA. 160			



PROPOSED RAMP D

DATE
BY

FINAL SURVEY PLOTTED DATE
NOTE BOOK NO.
AREAS CHECKED

DATE
BY

ORIGINAL SURVEY PLOTTED DATE
NOTE BOOK NO.
AREAS CHECKED

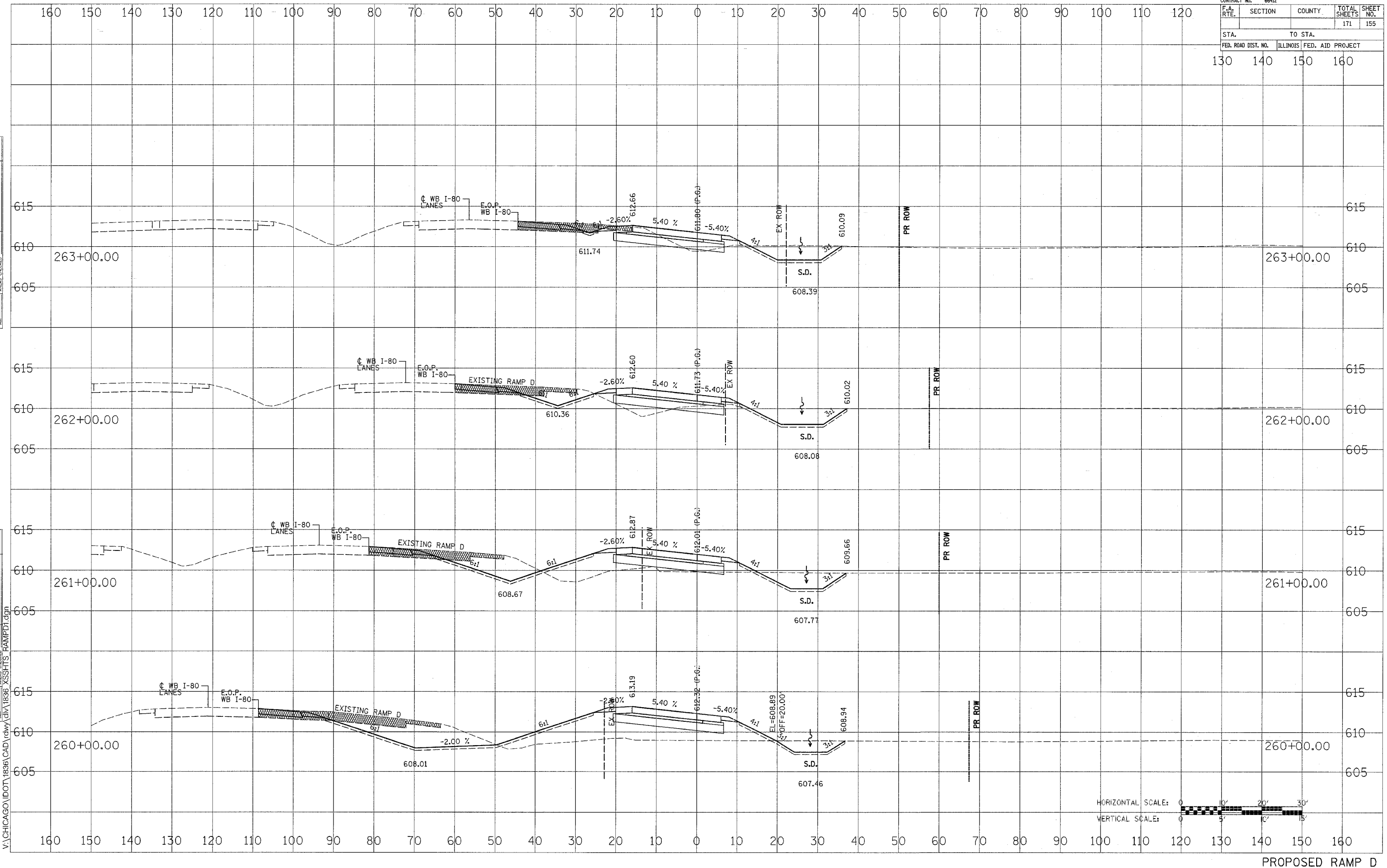
11/4/2005
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CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	155
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
130	140	150	160	

DATE	BY
SURVEYED	NO.
PLOTTED	
DATE	
AREAS CHECKED	

DATE	BY
SURVEYED	NO.
PLOTTED	
DATE	
AREAS CHECKED	

DATE	BY
SURVEYED	NO.
PLOTTED	
DATE	
AREAS CHECKED	



11/4/2005
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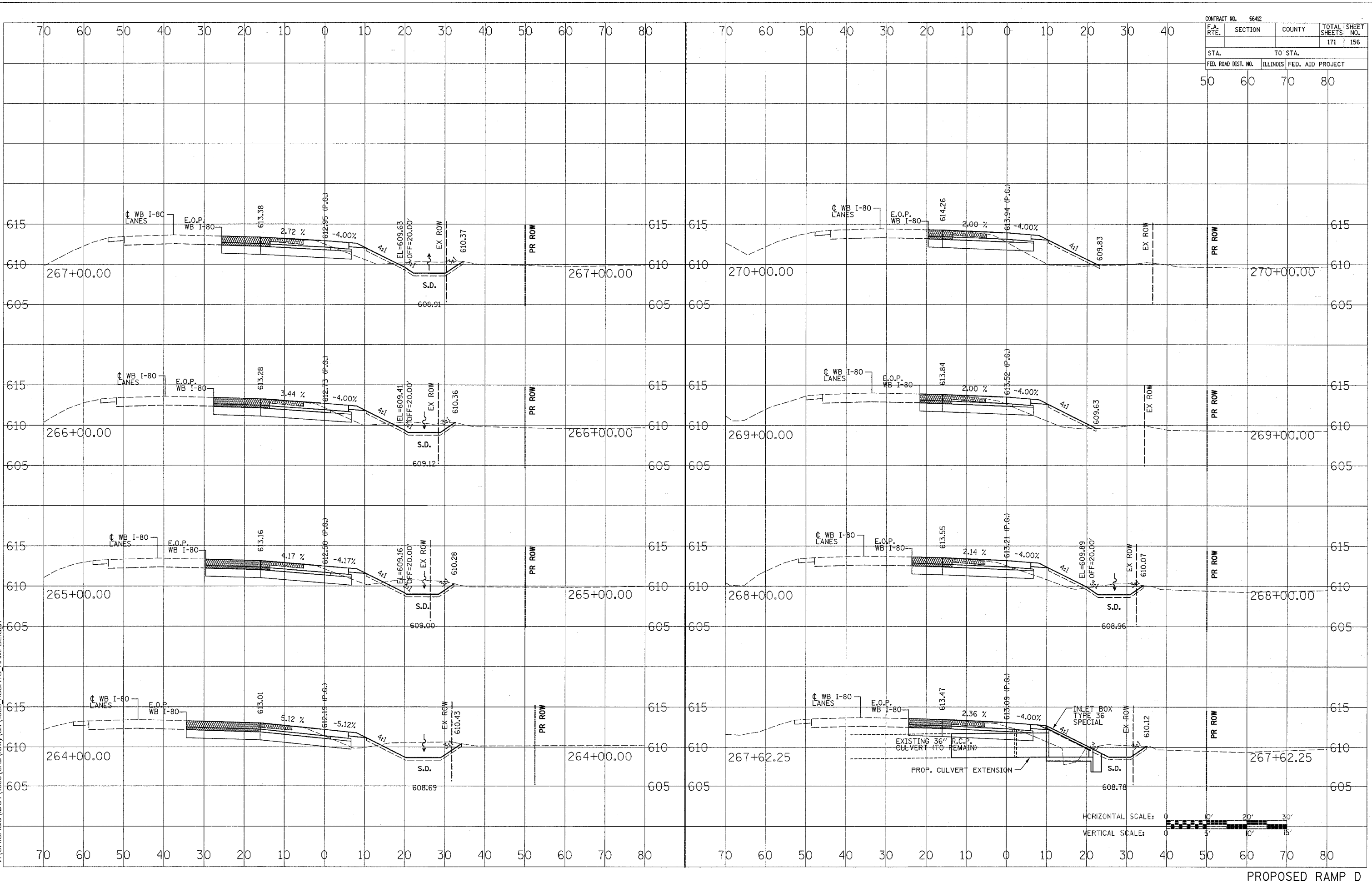
PROPOSED RAMP D

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	156
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
50	60	70	80	

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

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

11/4/2005
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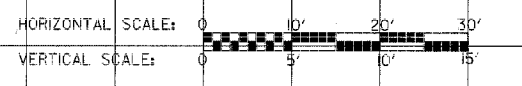
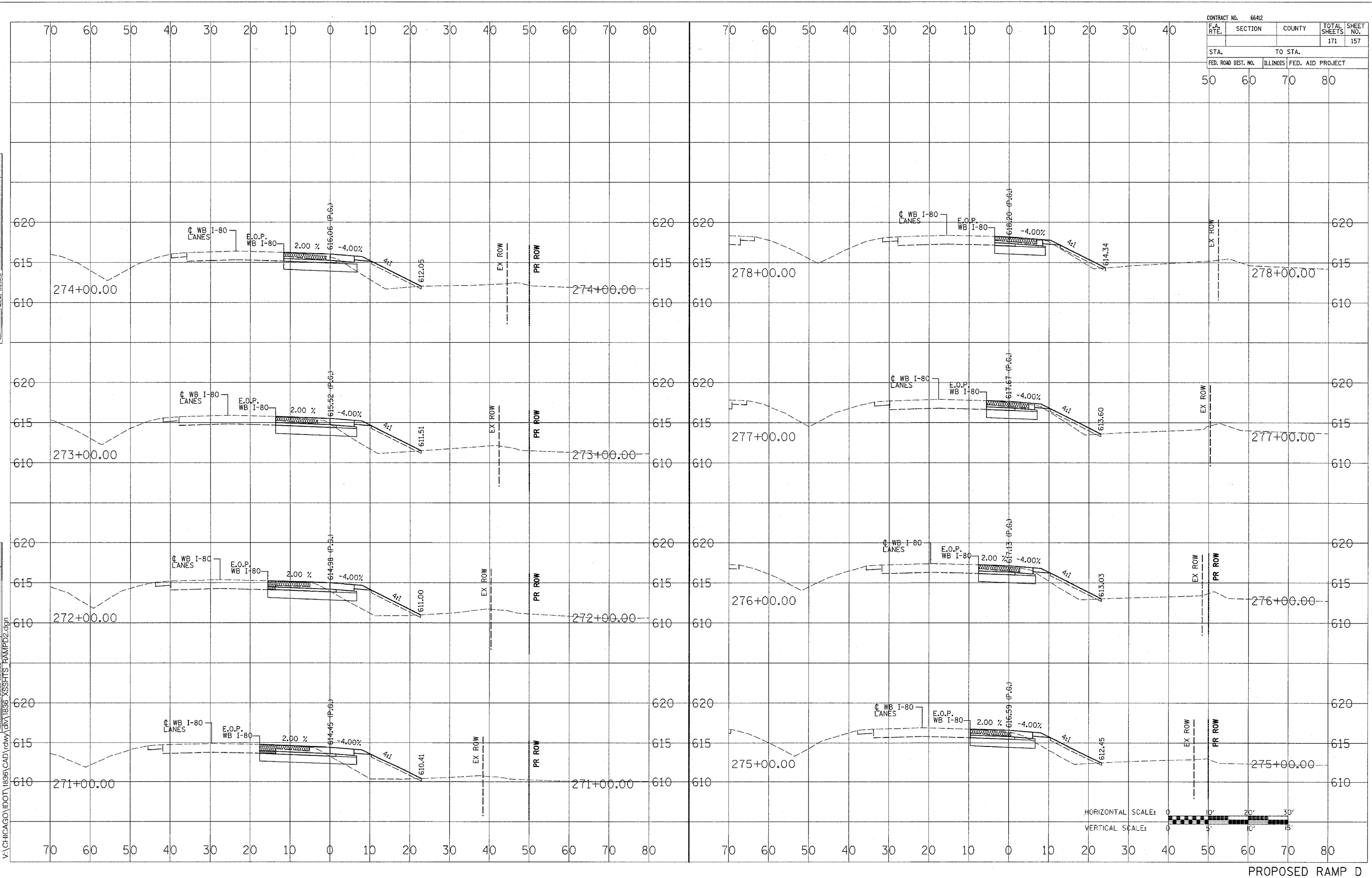
PROPOSED RAMP D

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	157
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
50	60	70	80	

DATE	BY
SHRVED	PLT
NO	NO
NO	NO

DATE	BY
SHRVED	PLT
NO	NO
NO	NO

11/4/2005
V:\CHICAGO\DOT\1836\CAD\rdwy\1836_XSSHTS_RAMPD2.dgn



PROPOSED RAMP D

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	158
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

11/4/2005
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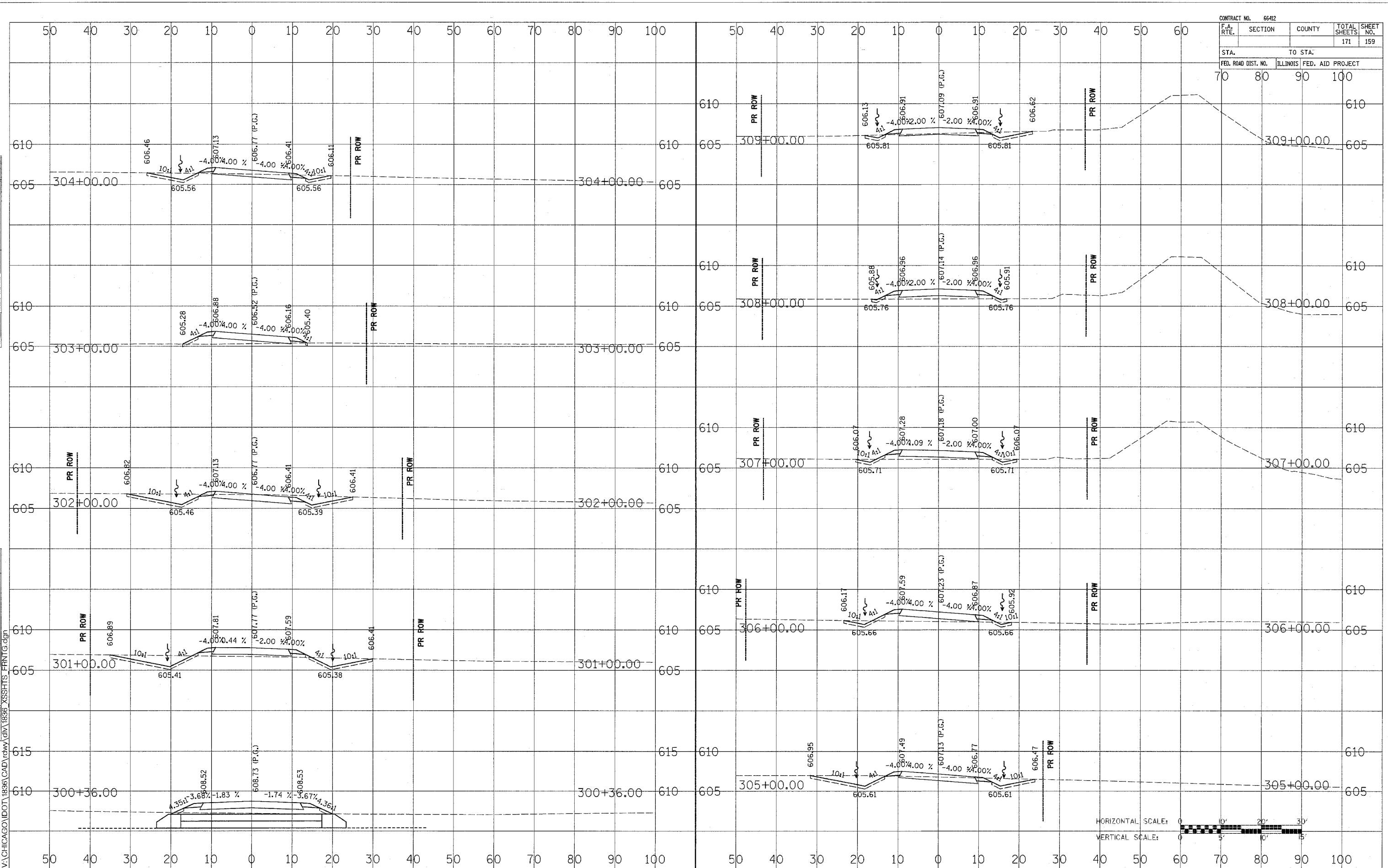
PROPOSED RAMP D

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	159
STA. 70		TO STA. 100		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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

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

11/14/2005
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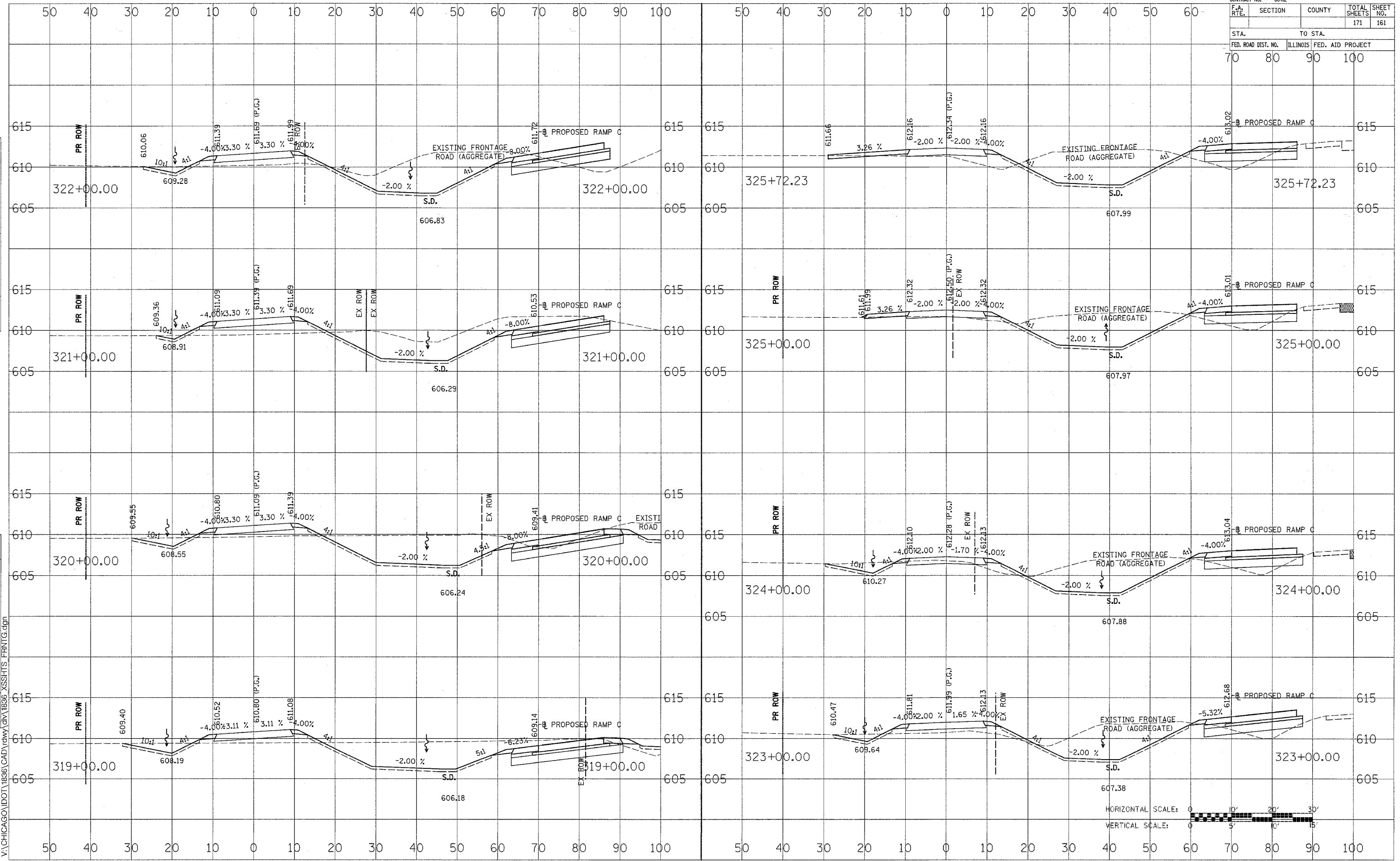
PROPOSED FRONTAGE ROAD

CONTRACT NO. 66412		TOTAL SHEETS 171		SHEET NO. 161	
F.A. RTE.	SECTION	COUNTY			
STA.	TO STA.				
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT		
70	80	90	100		

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY
DATE	BY

11/4/2005
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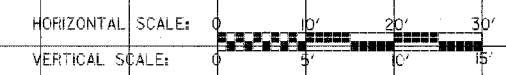
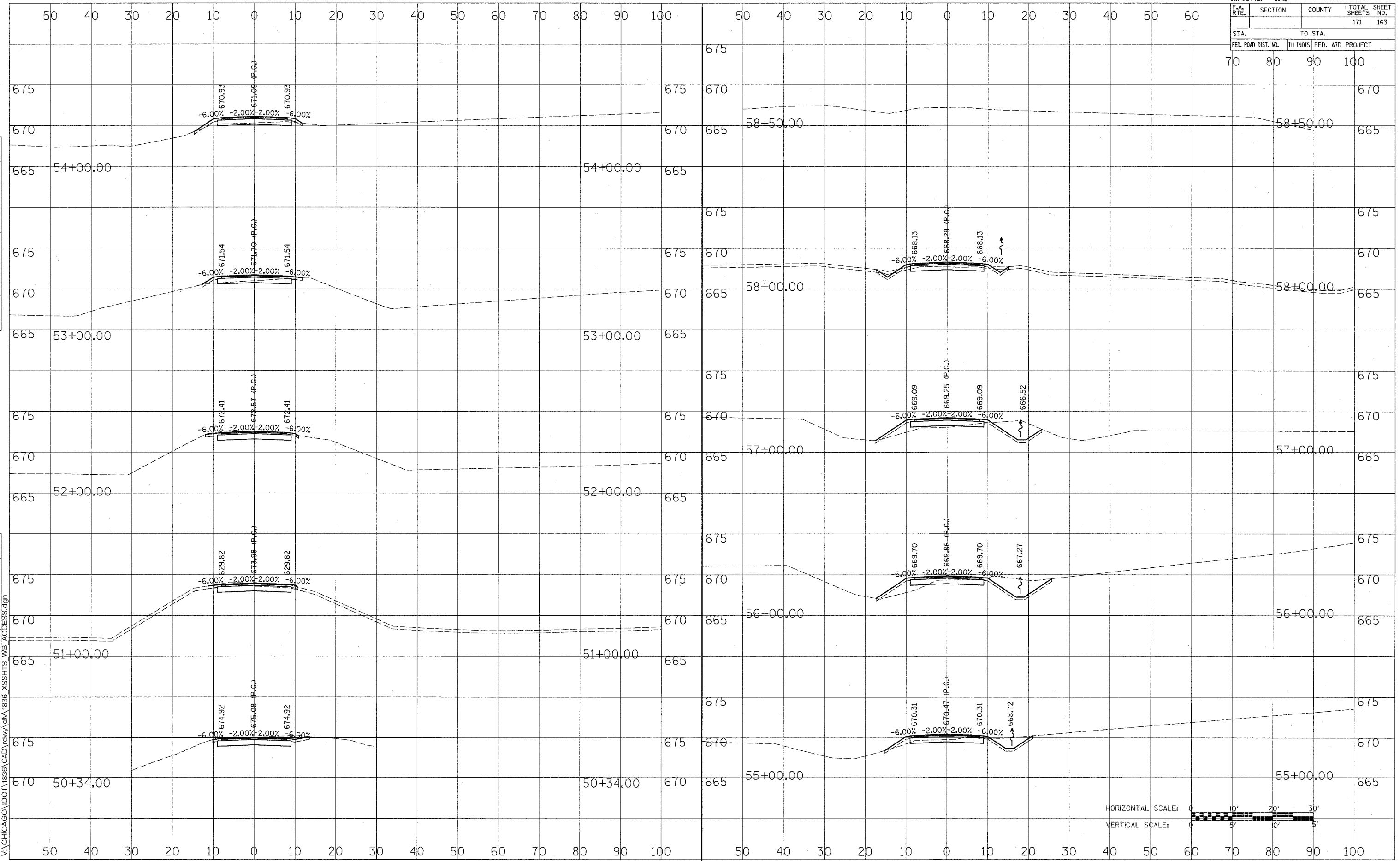
PROPOSED FRONTAGE ROAD

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	163
STA.		TO STA.		
70		80 90 100		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 DATE _____
 AREAS CHECKED _____
 NO. _____

DATE _____ BY _____
 SURVEYED _____
 PLOTTED _____
 DATE _____
 AREAS CHECKED _____
 NO. _____

11/4/2005
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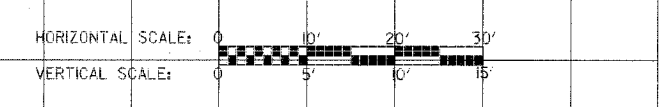
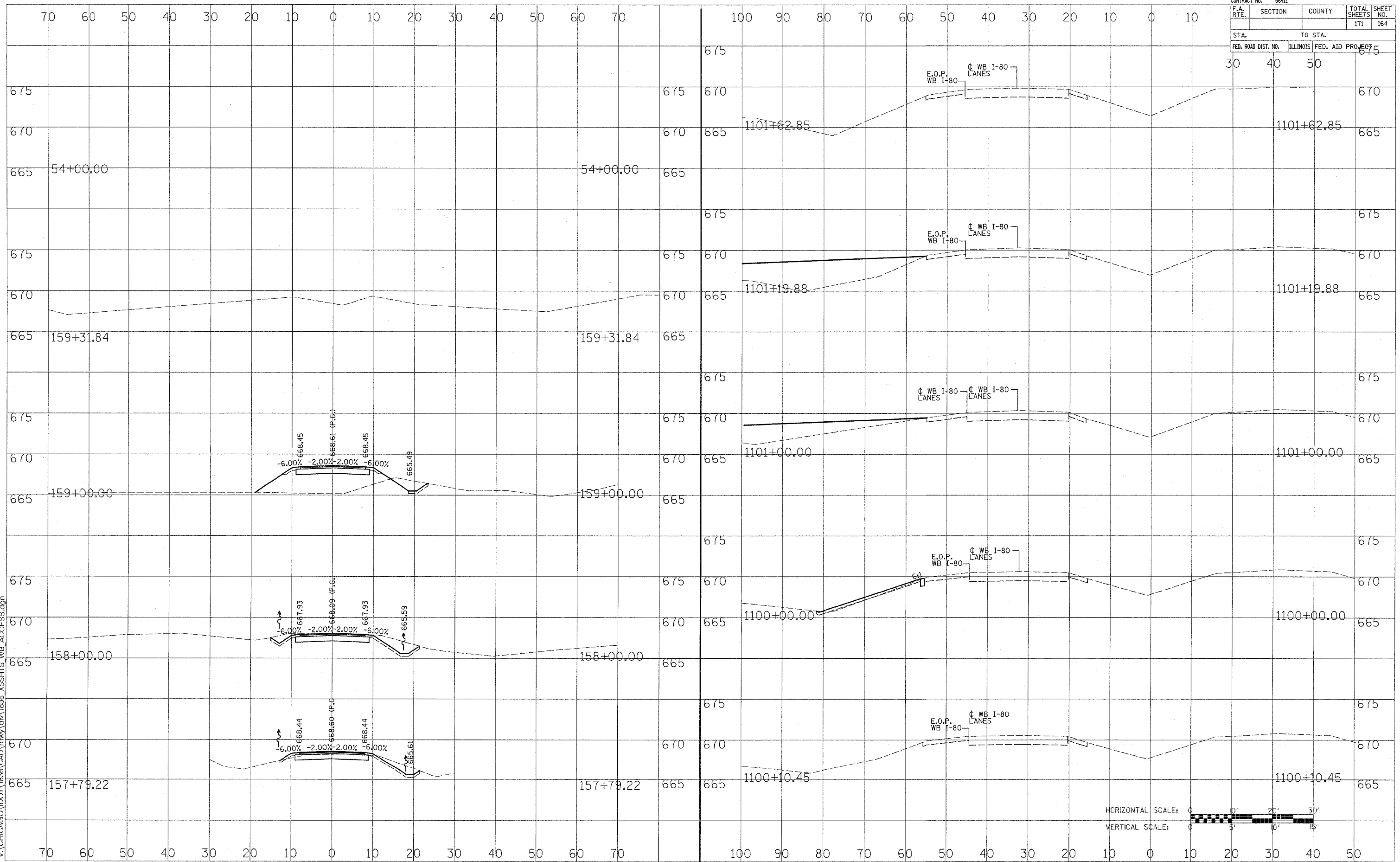
PROPOSED WB ACCESS ROAD

CONTRACT NO. 66412		TOTAL SHEETS 171		SHEET NO. 164	
F.A. RTE.	SECTION	COUNTY	ILLINOIS	FED. AID PROJ. NO.	675
STA. 30 40 50			TO STA. 675		

DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

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PROPOSED WB ACCESS ROAD

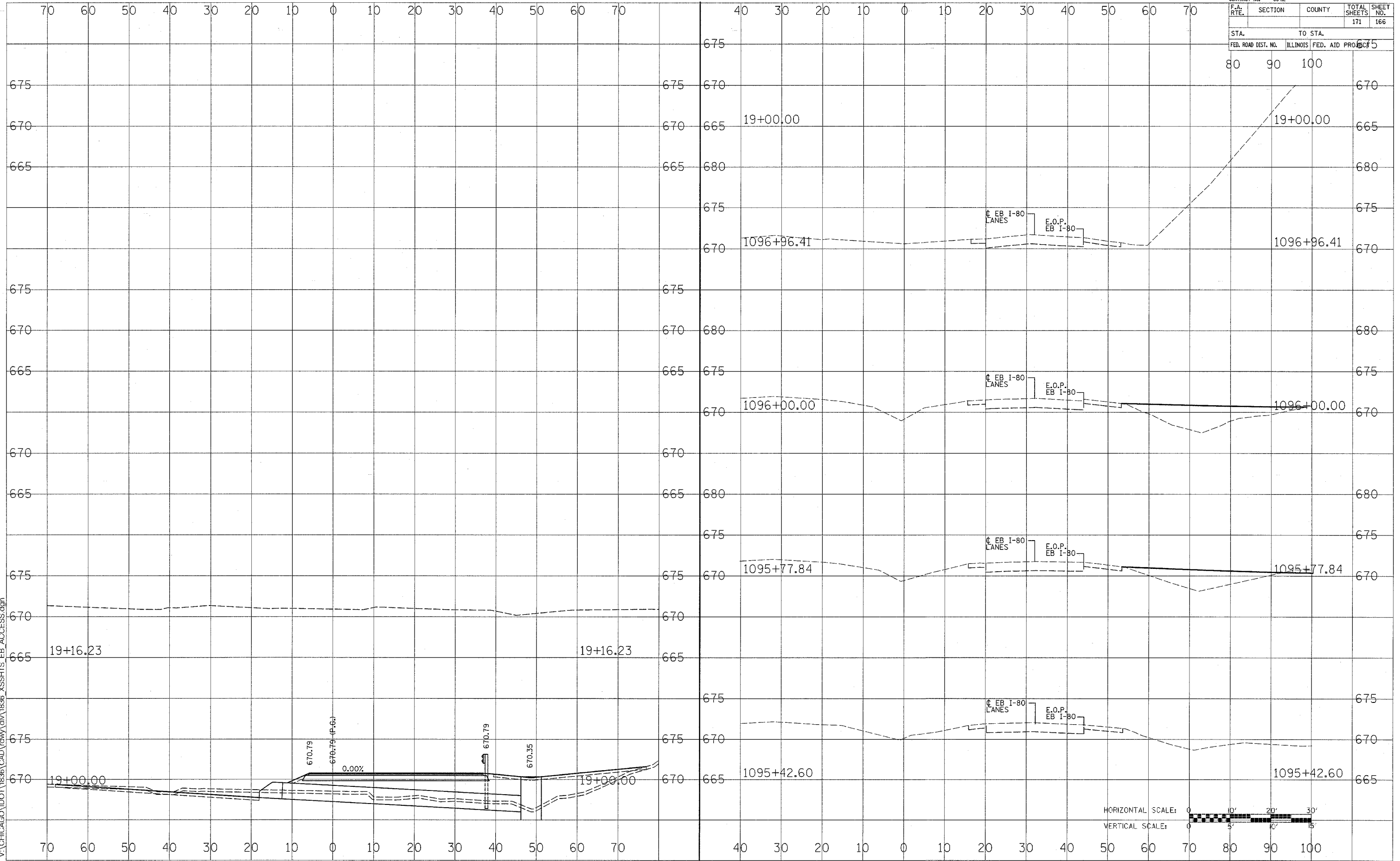
F.A.I. 80

CONTRACT NO. 66412				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			171	166
STA.		TO STA.		
80		100		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJ. NO.				

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	

V:\CHICAGO\DOT\1836\CAD\RAW\1836_XSSHTS_EB_ACCESS.dgn
11/14/2005



HORIZONTAL SCALE: 0 10' 20' 30'
VERTICAL SCALE: 0 5' 10' 15'

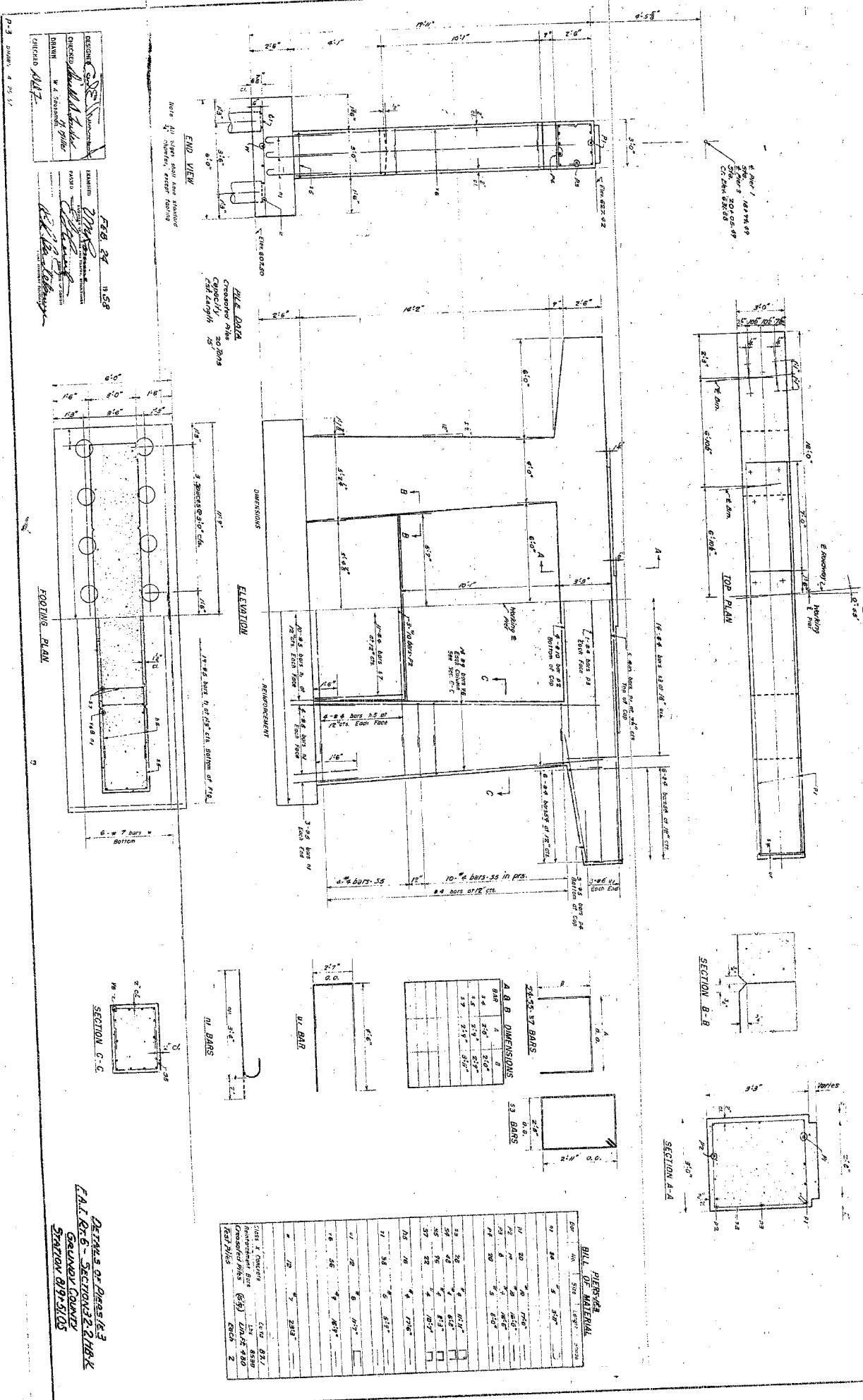
PROPOSED EB ACCESS ROAD

F.A.I. 80

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAI-90

DATE	1927	SHEET NO.	7
BY	Gundy	TOTAL SHEETS	9
CHECKED			

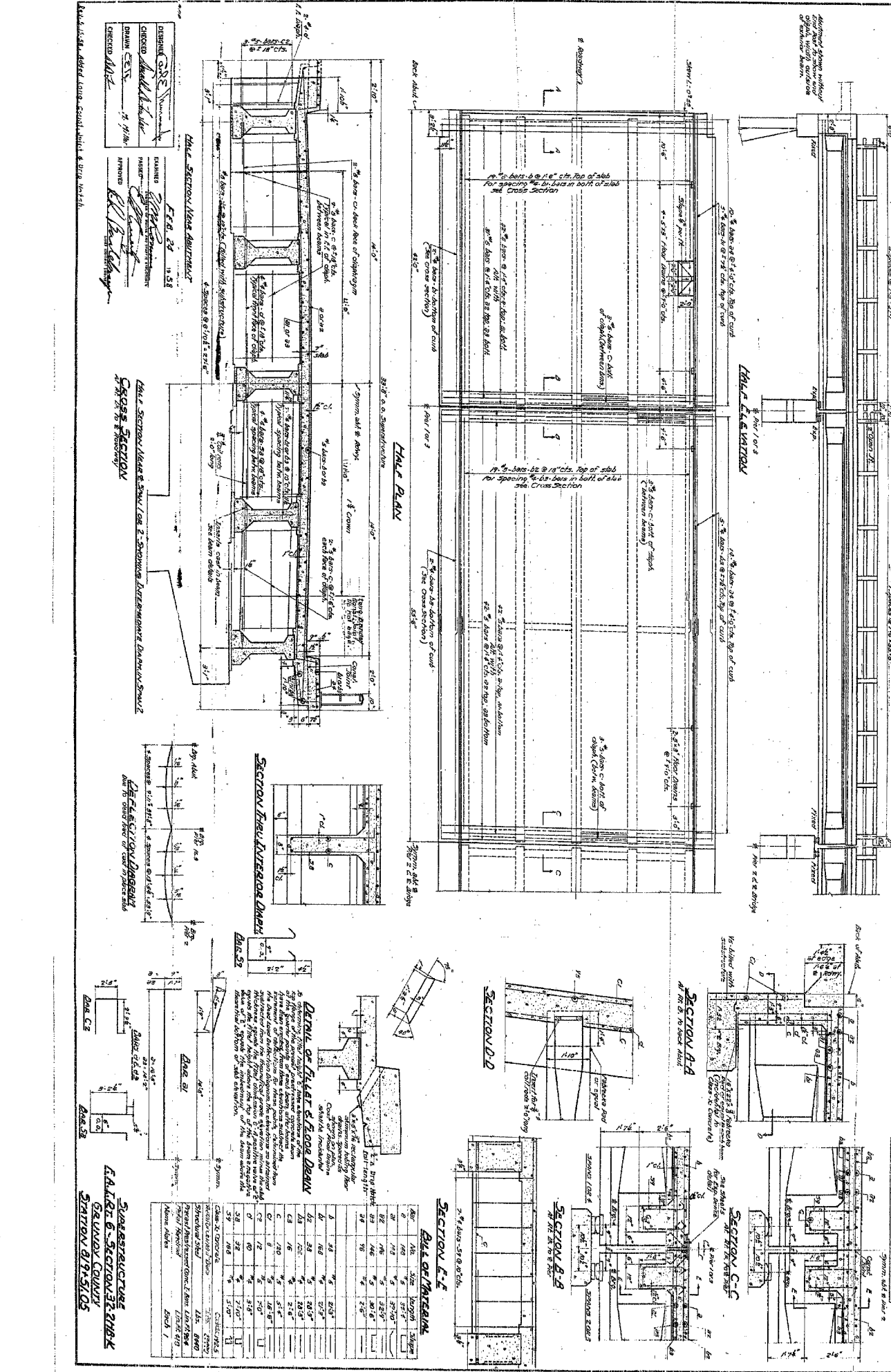


DETAILS OF PIERS (R-3)
FAI-R-6 - SECTION 2, 218-X
GRAND COUNTY
STATION 819+51.05

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

FAI-90

DATE	1927	SHEET NO.	3
BY	Gundy	TOTAL SHEETS	9
CHECKED			



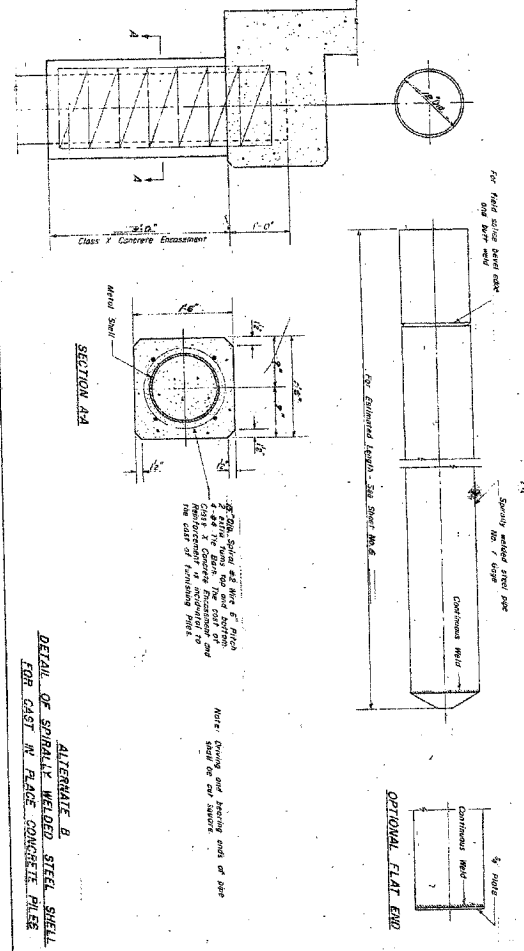
STRUCTURES
FAI-R-6 - SECTION 2, 218-X
GRAND COUNTY
STATION 819+51.05

66412
168

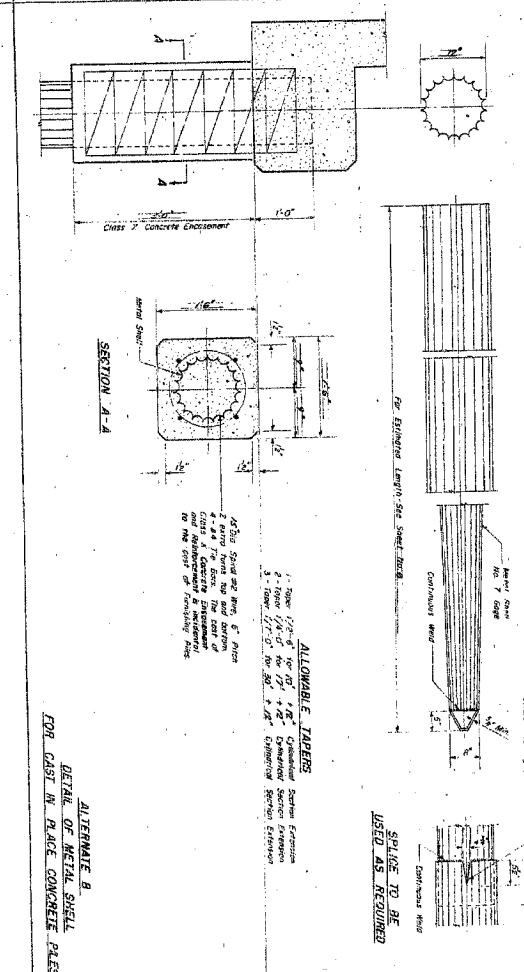
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PAI-90

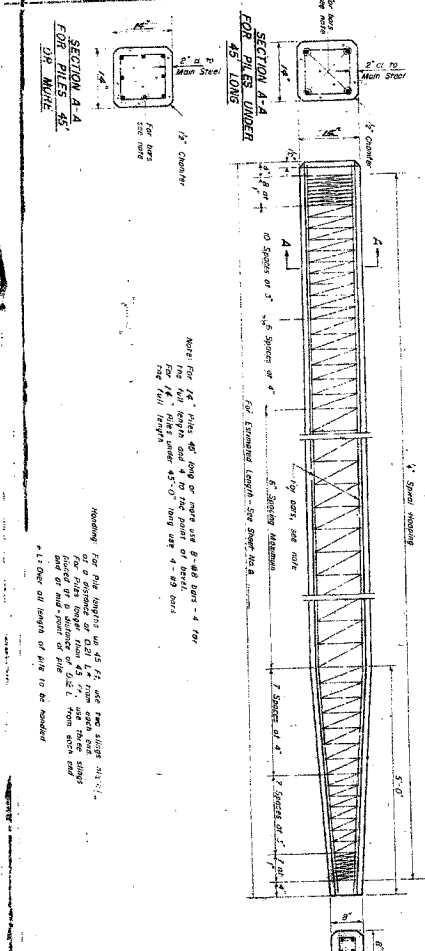
NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10



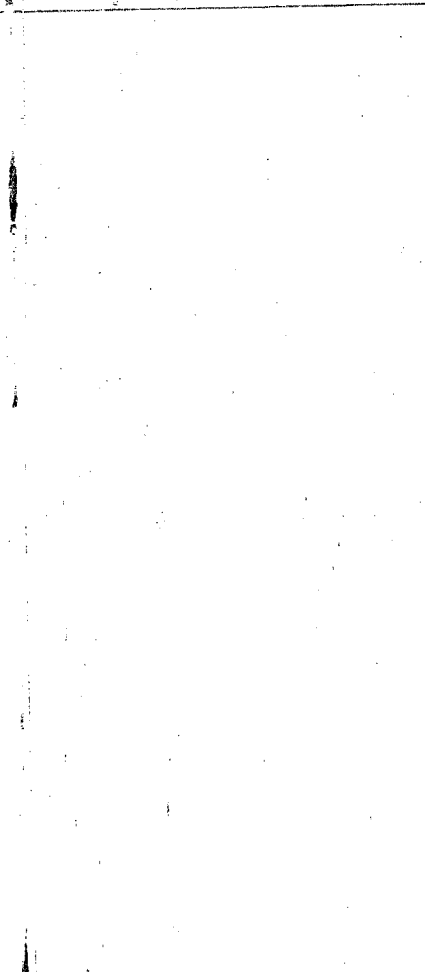
ALTERNATE B
DETAIL OF SPIDALE WELDED STEEL SHELL
FOR CAST IN PLACE CONCRETE PILES



ALTERNATE B
DETAIL OF METAL SHELL
FOR CAST IN PLACE CONCRETE PILES



ALTERNATE A
DETAIL OF PRECAST CONCRETE PILES

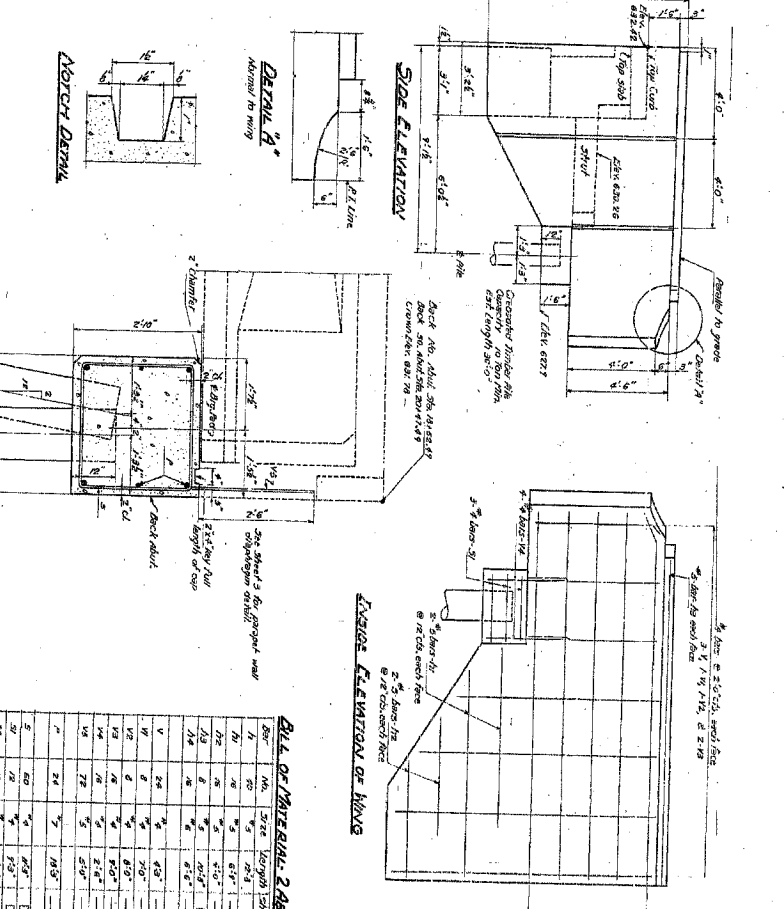
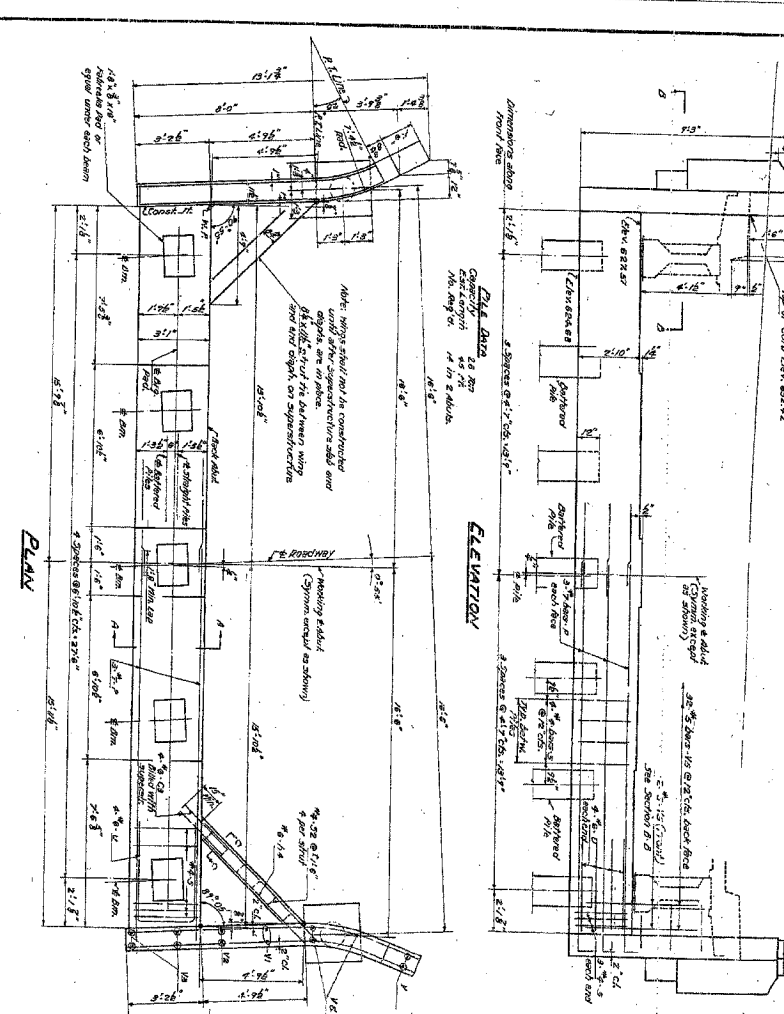


ALTERNATE A
DETAIL OF PRECAST CONCRETE PILES

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PAI-90

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
1	2	3	4	5	6	7	8	9	10
1	2	3	4	5	6	7	8	9	10



LIST OF MATERIALS - 2 SHEETS

NO.	QTY.	DESCRIPTION	UNIT	PRICE	TOTAL
1	1	CONCRETE	CU YD	1.00	1.00
2	1	STEEL	TON	100.00	100.00
3	1	WOOD	CU YD	1.00	1.00
4	1	PAINT	TON	100.00	100.00
5	1	LABOR	HR	1.00	1.00
6	1	EQUIPMENT	HR	1.00	1.00
7	1	TRANSPORTATION	HR	1.00	1.00
8	1	INSURANCE	HR	1.00	1.00
9	1	PROFIT	HR	1.00	1.00
10	1	TOTAL			205.00

DESIGNED: C.S.E.
CHECKED: C.S.E.
DRAWN: C.S.E.
APPROVED: R.H.W.
FEB. 24 11 58

SECTION A-A
SECTION B-B
SECTION C-C

BAR 1-1A
BAR 2
BAR 3-5-7-8-9-10

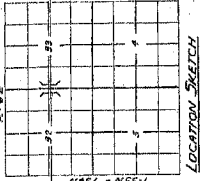
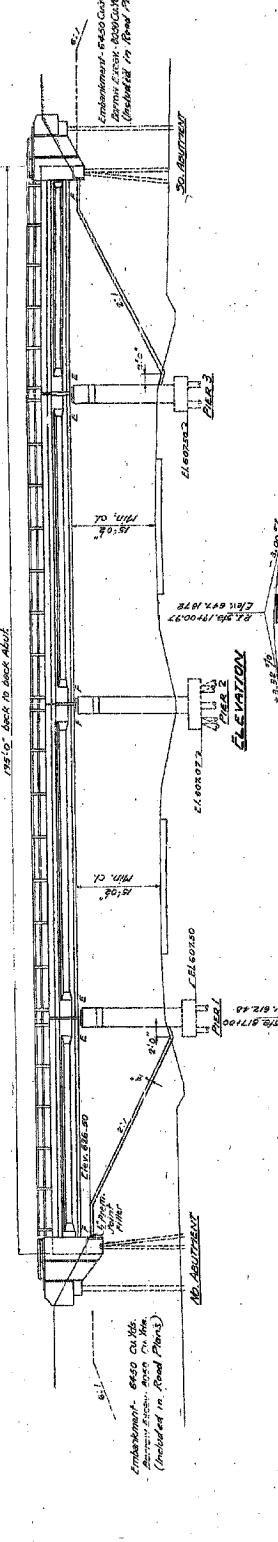
ROBERT & SONS ARCHITECTS
301 E. 5th St.
GRAND RAPIDS
MICHIGAN

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

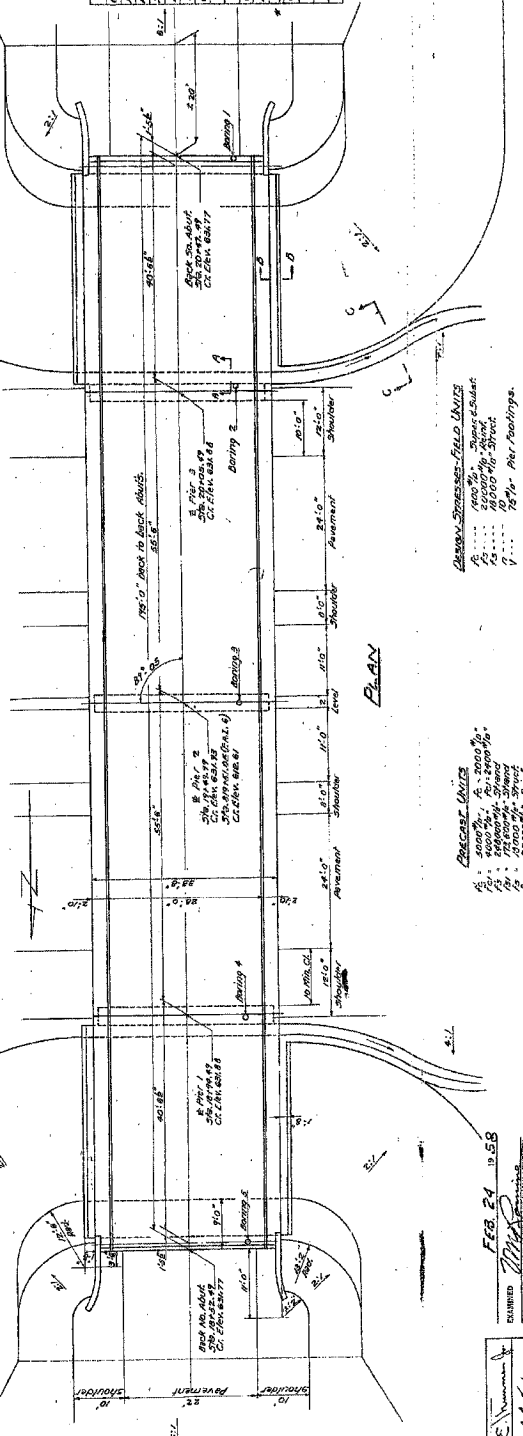
FBI-30
SHEET No. 1
OF 7 SHEETS

DESIGNED: C. E. ...
CHECKED: ...
DRAWN: ...
CHECKED: ...

GENERAL NOTES
Class 'A' concrete shall be used throughout except as noted.
The concrete to be used shall conform to the specifications of the Illinois State Board of Engineers, Section 101-1.1, and shall be placed in accordance with the specifications of the Illinois State Board of Engineers, Section 101-1.1, and shall be placed in accordance with the specifications of the Illinois State Board of Engineers, Section 101-1.1.



STANDARD SPECIFICATIONS
SPEC. FOR CONCRETE
SPEC. FOR REINFORCING BARS
SPEC. FOR STEEL
SPEC. FOR BRICK
SPEC. FOR CEMENT
SPEC. FOR SAND
SPEC. FOR GRAVEL
SPEC. FOR ASPHALT
SPEC. FOR PAINT
SPEC. FOR FUEL
SPEC. FOR OIL
SPEC. FOR LUBRICANTS
SPEC. FOR ELECTRICAL
SPEC. FOR MECHANICAL
SPEC. FOR PLUMBING
SPEC. FOR HEATING
SPEC. FOR COOLING
SPEC. FOR VENTILATION
SPEC. FOR LIGHTING
SPEC. FOR SOUNDING
SPEC. FOR SIGNALING
SPEC. FOR SAFETY
SPEC. FOR SECURITY
SPEC. FOR DEFENSE
SPEC. FOR OFFENSE



TOTAL BILL OF MATERIAL

ITEM	QTY.	UNIT	PRICE	TOTAL
Class 'A' Concrete	100	CY	18.50	1850.00
Reinforcing Concrete Bars	100	LB	0.15	15.00
Steel Decking	100	SQ. YD.	1.50	150.00
Formwork	100	SQ. YD.	1.00	100.00
Gravel	100	CY	1.00	100.00
Sand	100	CY	1.00	100.00
Asphalt	100	SQ. YD.	1.00	100.00
Paint	100	GA.	1.00	100.00
Fuel	100	GA.	1.00	100.00
Oil	100	GA.	1.00	100.00
Lubricants	100	GA.	1.00	100.00
Electrical	100	GA.	1.00	100.00
Mechanical	100	GA.	1.00	100.00
Plumbing	100	GA.	1.00	100.00
Heating	100	GA.	1.00	100.00
Cooling	100	GA.	1.00	100.00
Ventilation	100	GA.	1.00	100.00
Lighting	100	GA.	1.00	100.00
Sounding	100	GA.	1.00	100.00
Signaling	100	GA.	1.00	100.00
Safety	100	GA.	1.00	100.00
Security	100	GA.	1.00	100.00
Defense	100	GA.	1.00	100.00
Offense	100	GA.	1.00	100.00

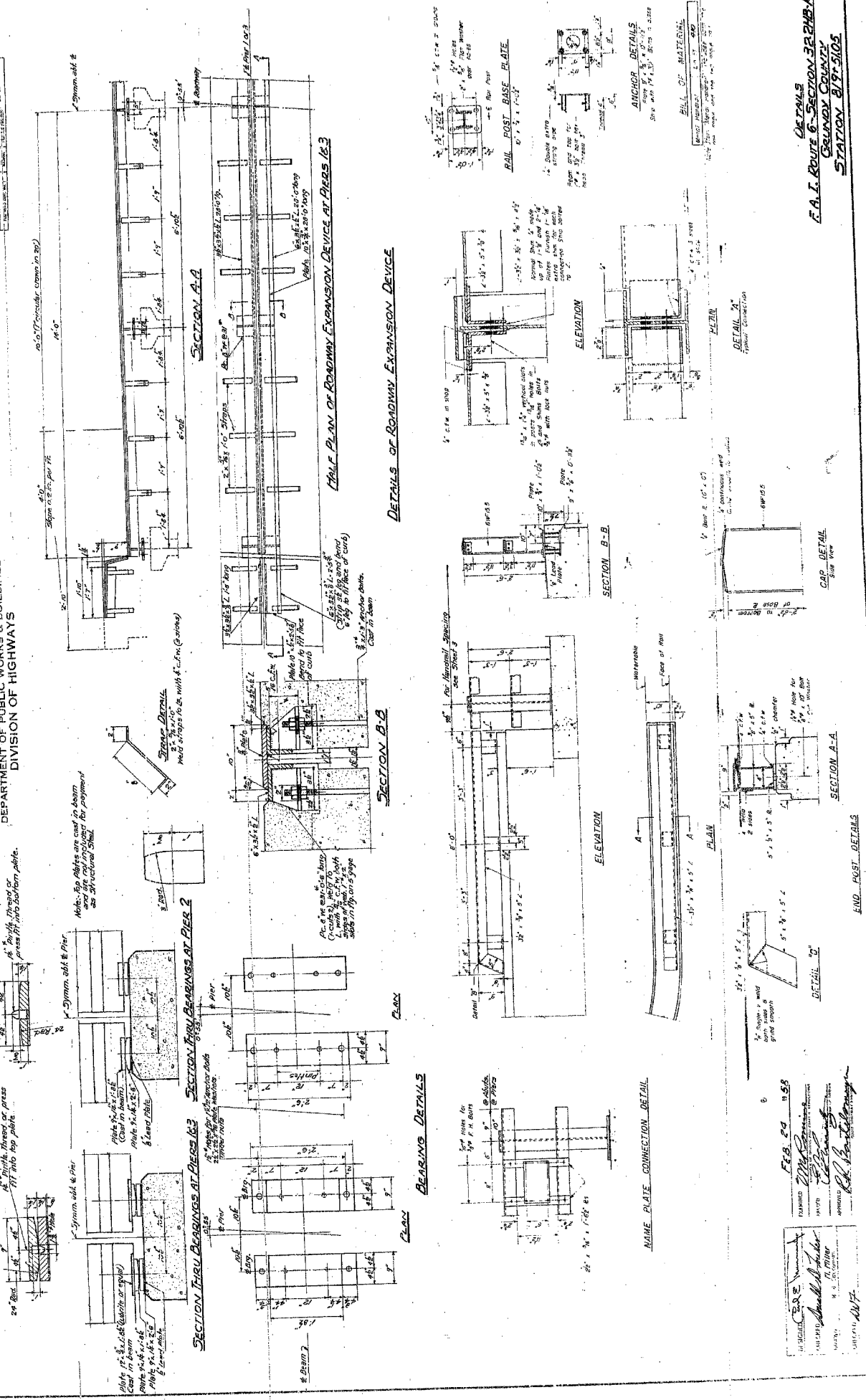
DESIGNED: C. E. ...
CHECKED: ...
DRAWN: ...
CHECKED: ...

GENERAL PLAN & ELEVATION
SECTION 6-SECTION 2-210 X
SALVAGE COUNTY
STATION 619+00

SHEET NO. 5	OF 7 SHEETS
DATE	Grundy 12 28
BY	Grundy
CHECKED	
APPROVED	

FAIRB

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: FEB. 20 1928
APPROVED BY: [Signature]

DETAILS
E.A.I. ROUTE 6 - SECTION 32 P.M.B.K.
GRUNDY COUNTY
STATION 819+50.0

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SHEET NO. 2	OF 9 SHEETS
DATE	Grundy 12 25
BY	Grundy
CHECKED	
APPROVED	

FAIRB

Station No.	Soils	Soils	Soils	Soils
590.0	Surface located at station 5905, 10 ft. R. Centerline	590.0	Surface located at station 5905, 10 ft. R. Centerline	590.0
589.0	Surface of ground	589.0	Surface of ground	589.0
588.5	Stiff black silty clay	588.5	Stiff black silty clay	588.5
588.0	Very stiff brown gravelly clay	588.0	Very stiff brown gravelly clay	588.0
587.5	Medium brown silty clay	587.5	Medium brown silty clay	587.5
587.0	Medium gray clay till	587.0	Medium gray clay till	587.0
586.5	Hard gray clay till	586.5	Hard gray clay till	586.5
586.0	Very stiff gray clay till	586.0	Very stiff gray clay till	586.0
585.5	Loss sample	585.5	Loss sample	585.5
585.0	Loss sample	585.0	Loss sample	585.0
584.5	Loss sample	584.5	Loss sample	584.5
584.0	Loss sample	584.0	Loss sample	584.0
583.5	Loss sample	583.5	Loss sample	583.5
583.0	Loss sample	583.0	Loss sample	583.0
582.5	Loss sample	582.5	Loss sample	582.5
582.0	Loss sample	582.0	Loss sample	582.0
581.5	Loss sample	581.5	Loss sample	581.5
581.0	Loss sample	581.0	Loss sample	581.0
580.5	Loss sample	580.5	Loss sample	580.5
580.0	Loss sample	580.0	Loss sample	580.0

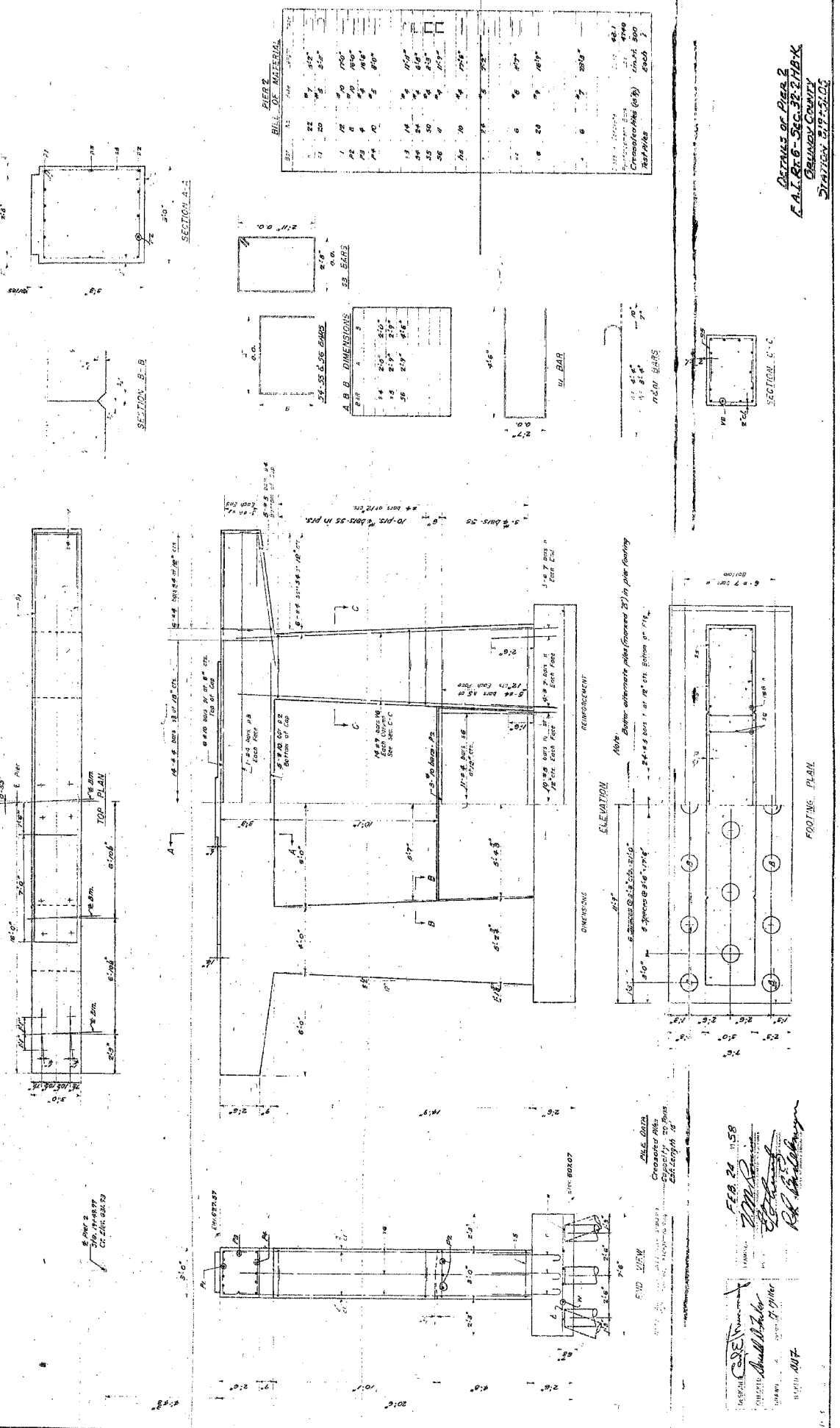
170
66412

DETAILS
E.A.I. ROUTE 6 - SECTION 32 P.M.B.K.
GRUNDY COUNTY
STATION 819+50.0

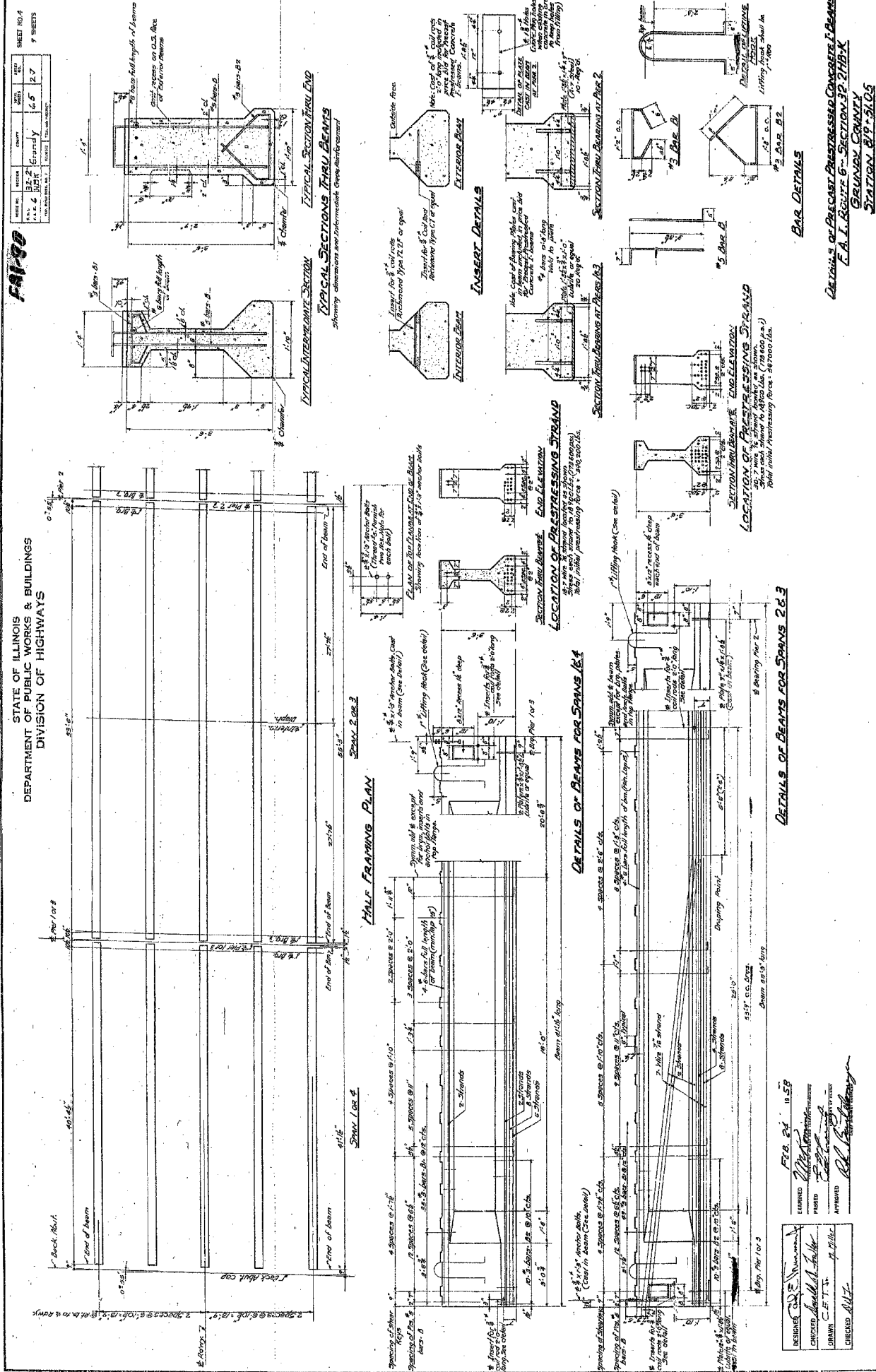
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: FEB. 24 1928
APPROVED BY: [Signature]

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



DESIGNED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 DATE: FEB 24 1958
 DRAWN BY: *[Signature]*
 APPROVED BY: *[Signature]*



DESIGNED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 DATE: FEB 24 1958
 DRAWN BY: *[Signature]*
 APPROVED BY: *[Signature]*

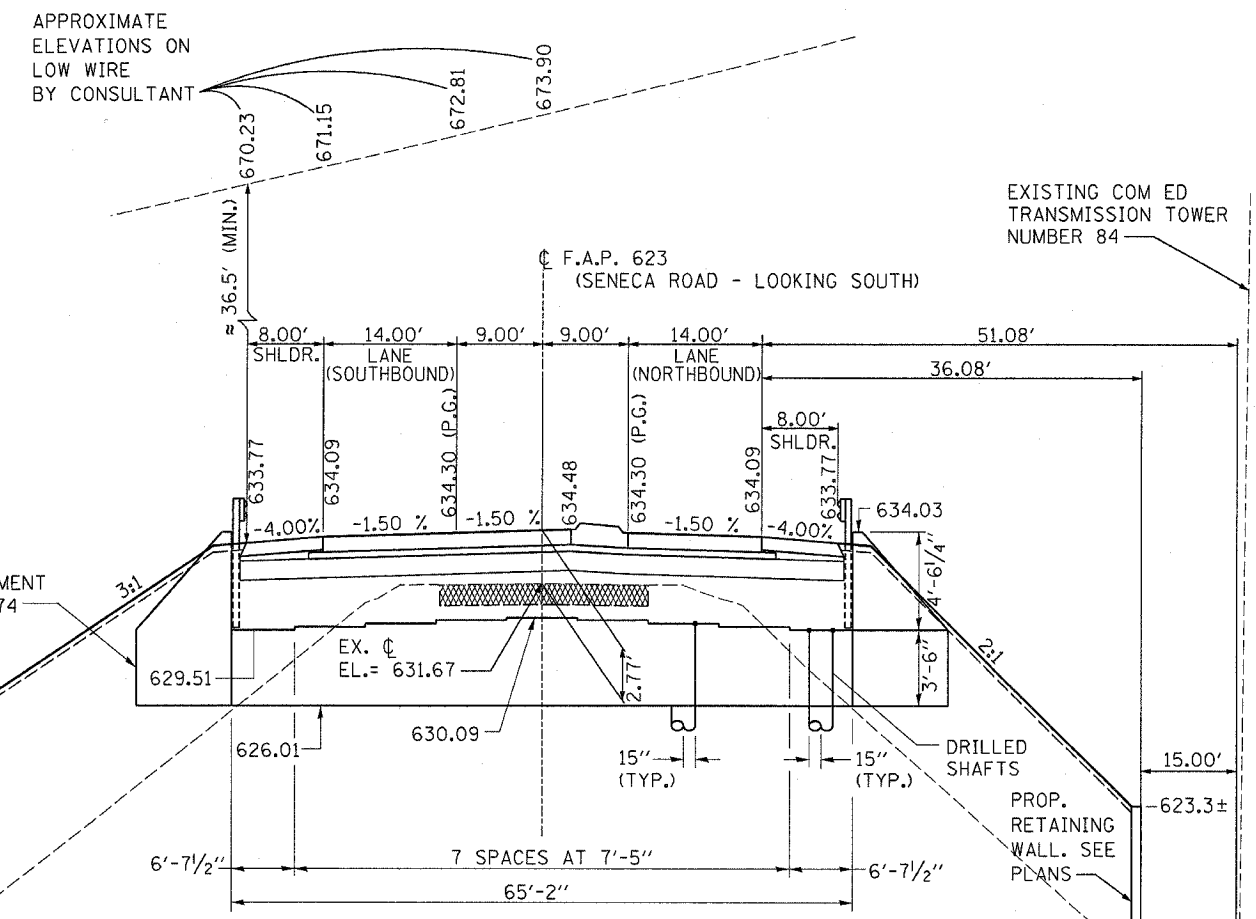
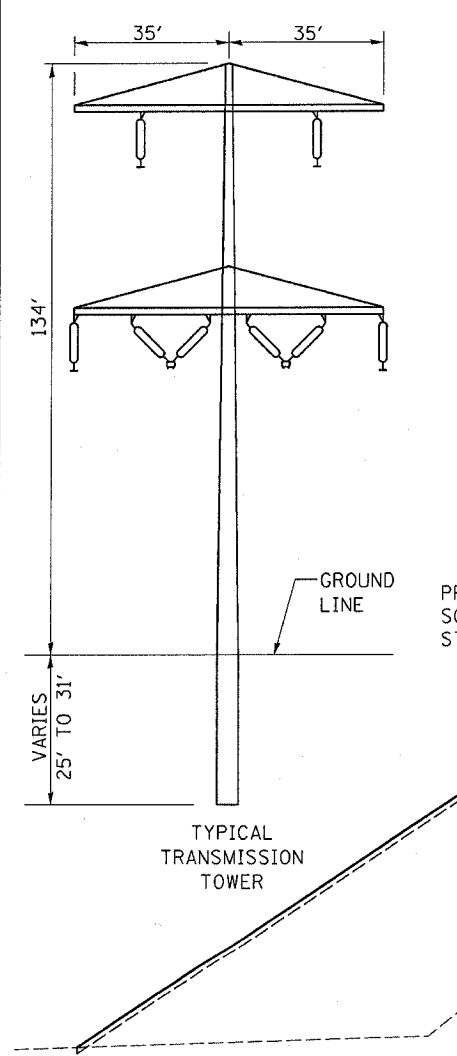
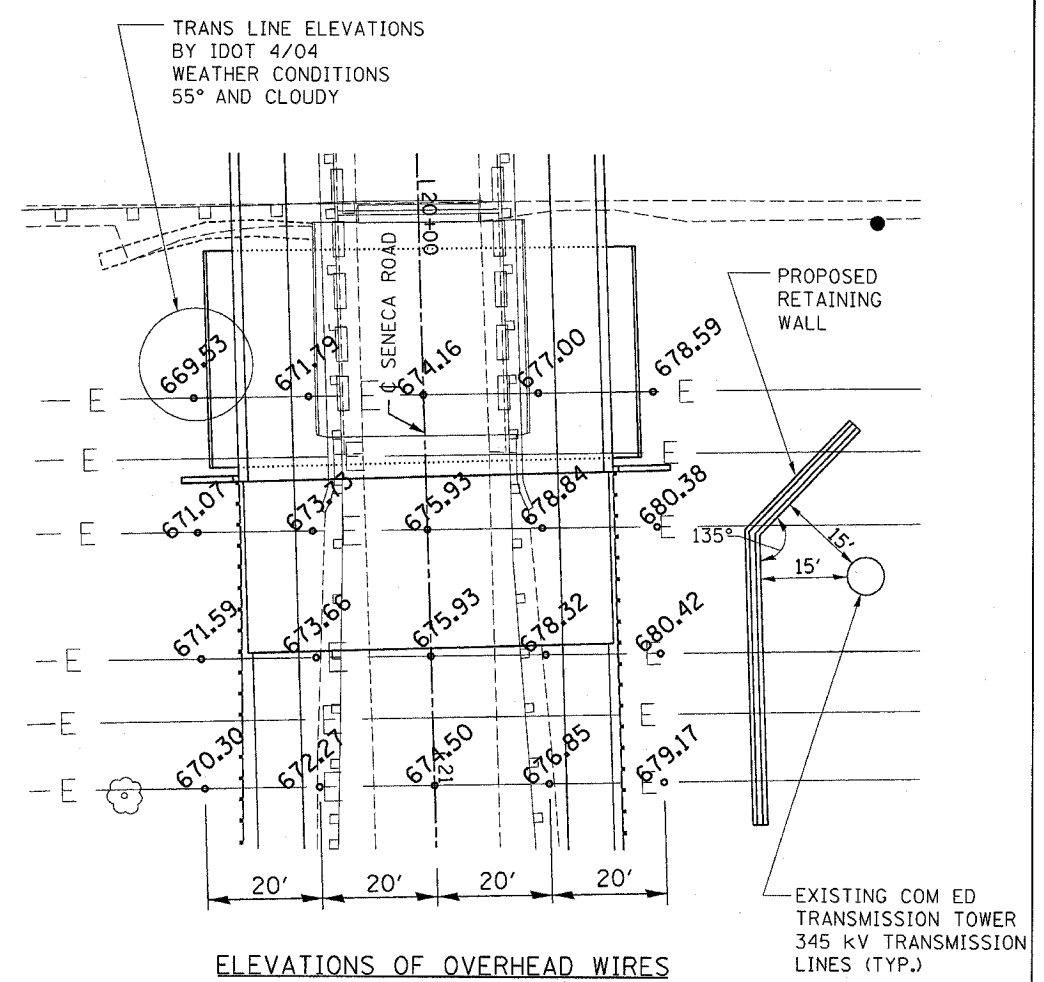
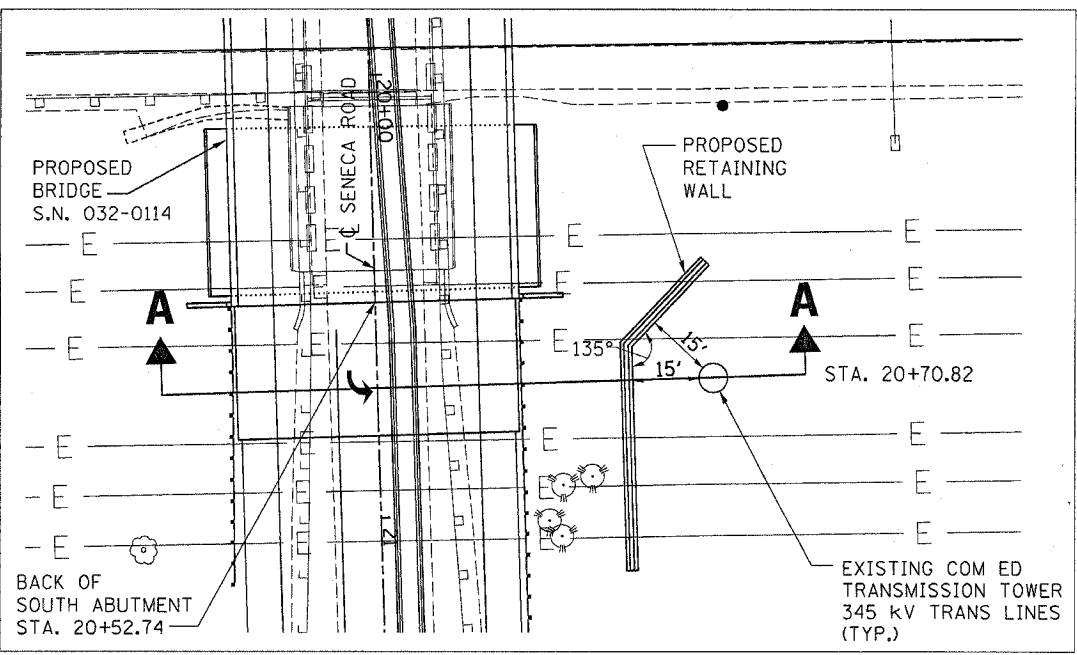
66412
171

EXCERPT FROM COMED DOCUMENT
 "CONDITIONS FOR WORKING IN THE VICINITY
 OF COMED'S ELECTRIC TRANSMISSION LINES"
 AUGUST 1, 2002

2.3 IN THE VICINITY OF COMED ELECTRIC TRANSMISSION LINES MEANS CONSTRUCTION OR OTHER WORK ACTIVITIES ON OR ADJACENT TO RIGHTS-OR-WAY OR EASEMENTS THAT CONTAIN COMED ELECTRIC TRANSMISSION LINES, INCLUDING BUT NOT LIMITED TO ANY USE OF CRANES, BOOMS, HOISTS, LADDERS OR OTHER EQUIPMENT OR ITEMS THAT MIGHT COME WITHIN THE CLEARANCE DISTANCES SET FORTH IN TABLE I, BELOW.

TABLE I
 CLEARANCE DISTANCE TO COMED'S TRANSMISSION LINES

NOMINAL TRANSMISSION LINE OPERATING VOLTAGE (PHASE-TO-PHASE, VOLTS)	TYPICAL NUMBER OF BALL & SOCKET INSULATORS IN A SUSPENSION STRING	TYPICAL INSULATOR LTH. (FEET)	CLEARANCE DISTANCE (FEET) (METERS)
345,000	18 TO 20	8 TO 12	30 9.2



SECTION A-A
 SENECA ROAD INTERCHANGE AT F.A.I. 80
 SENECA ROAD STA. 20+70.82
 LOOKING NORTH

TOWER NUMBER	FOUNDATION DIAMETER
83	6'-6"
84	MIN. 7'-8"
85	6'-0"

THE INFORMATION SHOWN ON THESE SHEETS REPRESENTS THE BEST INFORMATION THE DEPARTMENT WAS ABLE TO OBTAIN. THE CONTRACTOR IS ADVISED TO VERIFY ANY INFORMATION ON THIS SHEET.

SEE BRIDGE PLANS FOR MORE INFORMATION.

NOTE: SEE SPECIAL PROVISIONS FOR COORDINATION REQUIRED WITH COM ED FOR WORK NEAR THEIR FACILITIES.

REVISIONS	
NAME	DATE
	12.6.02

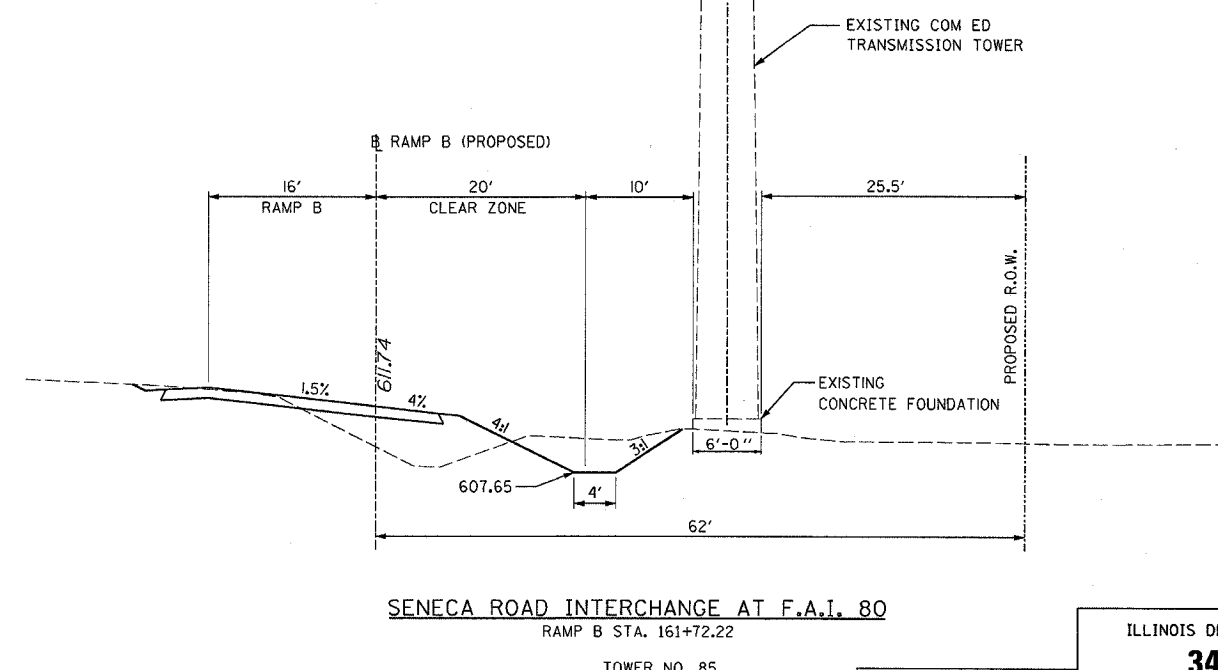
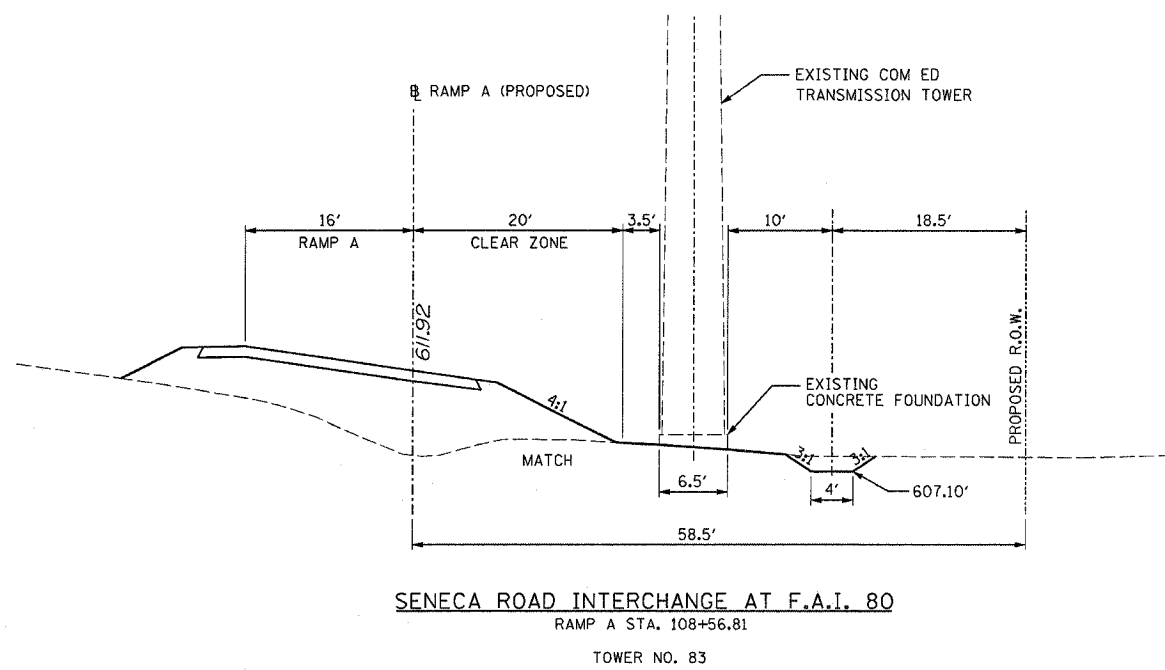
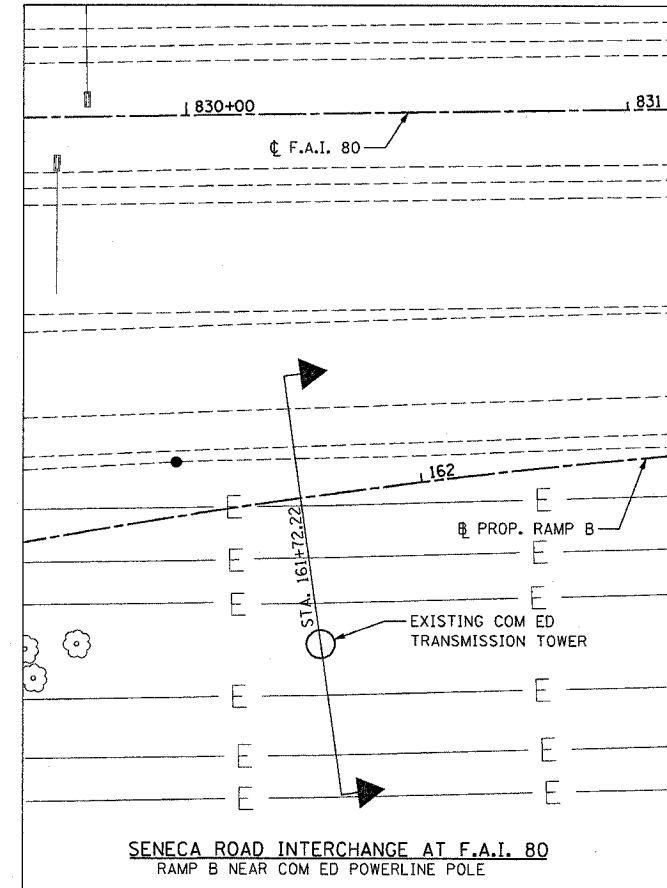
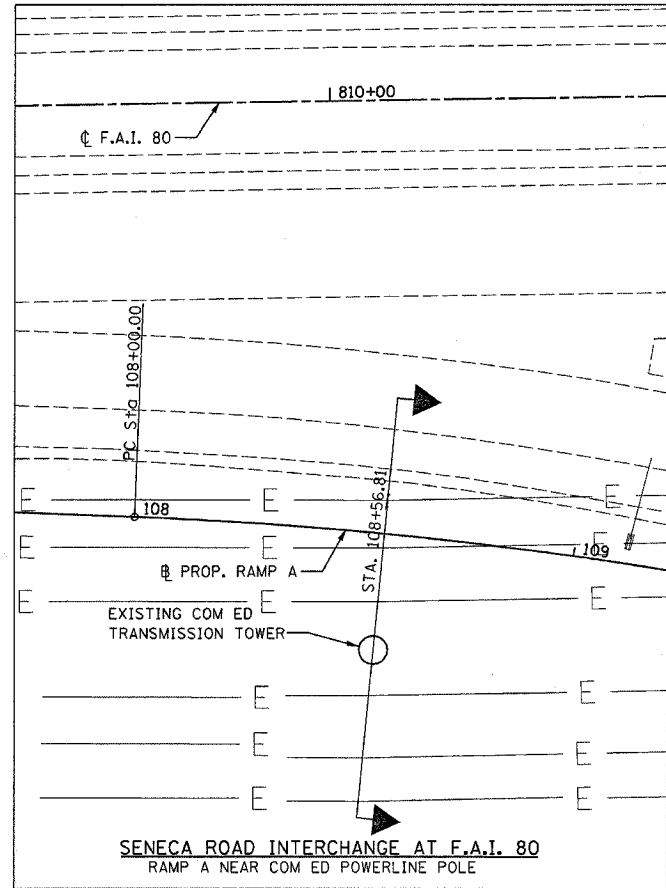
ILLINOIS DEPARTMENT OF TRANSPORTATION
345 kV COM ED TRANSMISSION LINES
FOR INFORMATION ONLY

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

F.A. AVE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	GRUNDY	171	171B

STA.	TO STA.
FED. ROAD DIST. NO.	ALIGNOR
FED. AID PROJECT	
CONTRACT NO. 66412	



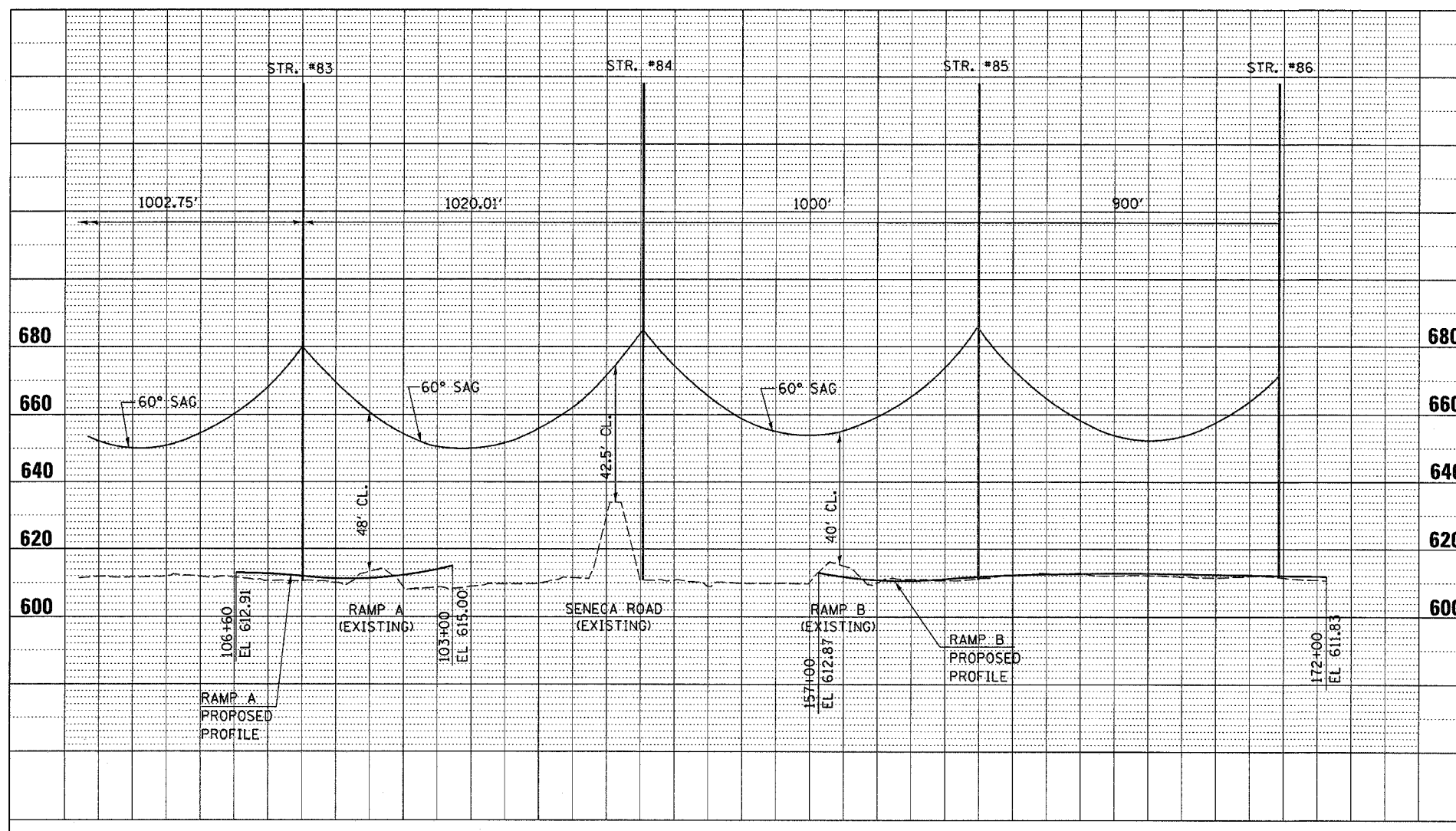
REVISIONS	
NAME	DATE
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ILLINOIS DEPARTMENT OF TRANSPORTATION
345 kV COM ED TRANSMISSION LINES
FOR INFORMATION ONLY
 SCALE: VERT. _____ HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____

F. A. ATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	GRUNDY	17	1710
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 66412

ELEVATIONS FROM COMED



REVISIONS	
NAME	DATE
	12 6 06

ILLINOIS DEPARTMENT OF TRANSPORTATION
**345 kV COM ED
 TRANSMISSION LINES**
FOR INFORMATION ONLY
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 HORIZ. _____
 DATE _____ DRAWN BY _____
 CHECKED BY _____