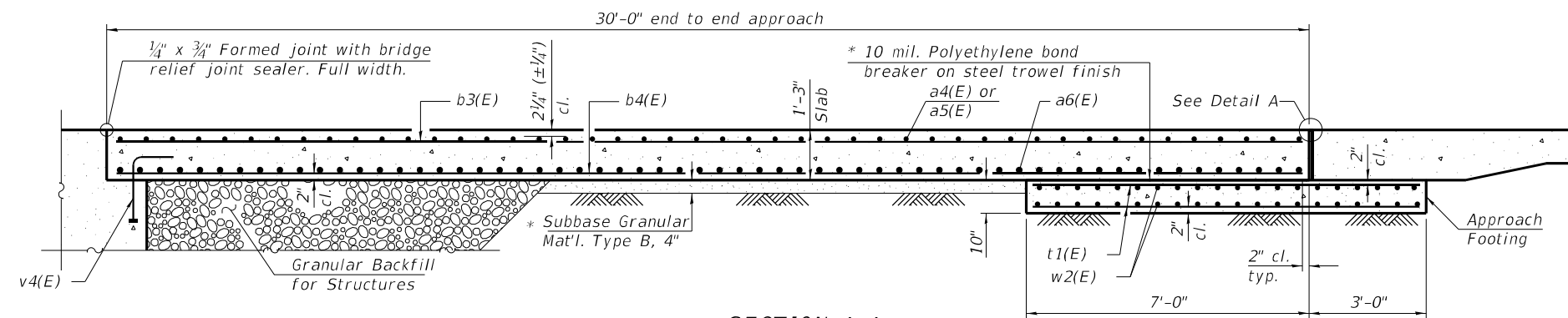


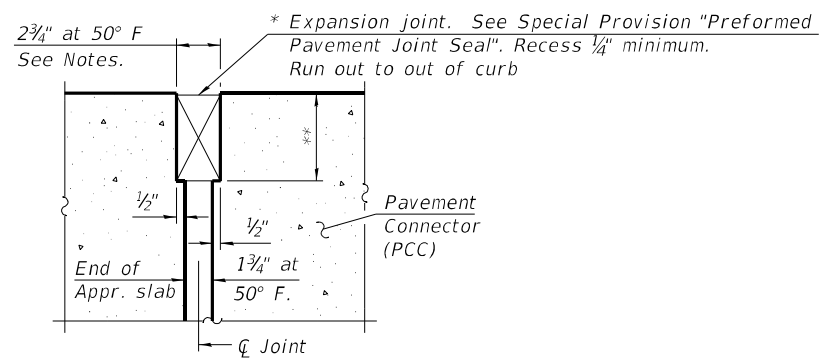
INSIDE ELEVATION OF PARAPET AND CURB

Notes:
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
 Parapet concrete shall be paid for as Concrete Superstructure.
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 31.



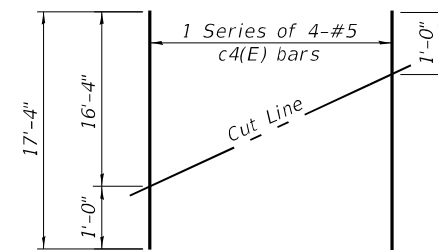
SECTION A-A

* Cost included with Concrete Superstructure (Approach Slab).

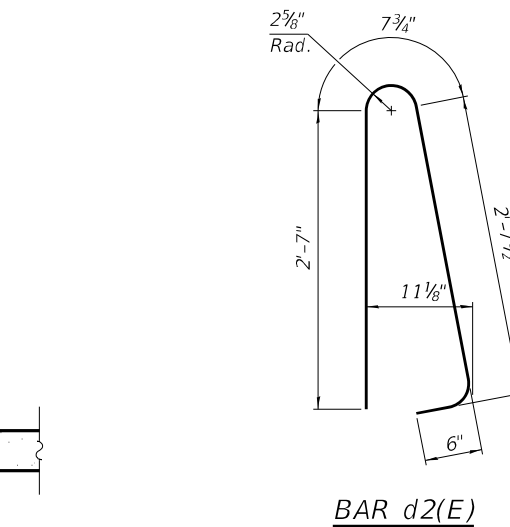


DETAIL A
 (@ Rt. L's)

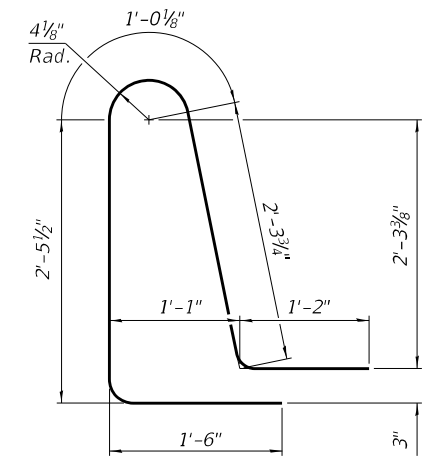
* Cost included with Concrete Superstructure (Approach Slab).
 ** Per manufacturer recommendations.



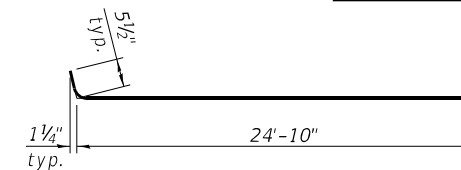
FIELD CUTTING DIAGRAM
 Order c4(E) bars full length. Cut as shown and use remainder of bars in opposite end of median.



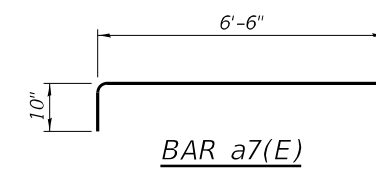
BAR d2(E)



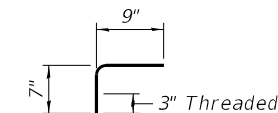
BAR d3(E)



BAR a4(E)



BAR a7(E)



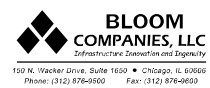
BAR c5(E)

TWO APPROACHES
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a4(E)	184	#5	25'-4"	—
a5(E)	184	#5	24'-10"	—
a6(E)	488	#8	24'-10"	—
a7(E)	100	#5	7'-4"	—
b3(E)	276	#5	29'-8"	—
b4(E)	440	#9	29'-8"	—
b5(E)	8	#5	14'-6"	—
b6(E)	8	#5	15'-0"	—
b7(E)	4	#4	15'-0"	—
b8(E)	38	#5	29'-9"	—
c3(E)	54	#5	17'-7"	—
c4(E)	8	#5	19'-4"	—
c5(E)	124	#5	1'-4"	└
d2(E)	94	#5	6'-5"	└
d3(E)	94	#5	8'-6"	└
e3(E)	40	#4	14'-9"	—
t1(E)	376	#4	10'-0"	—
w2(E)	320	#5	24'-10"	—
Concrete Superstructure		Cu. Yd.	27.9	
Concrete Superstructure (Approach Slab)		Cu. Yd.	255.9	
Concrete Structures		Cu. Yd.	57.3	
Reinforcement Bars, Epoxy Coated		Pound	111,120	

(Sheet 2 of 2)

PROJECT NO.: #PROJCTNS
 HRG PROJ. CONTACT: #HRG2946
 FILE NAME: 032025-66H5_016.appr-det.dgn
 PLOT DRIVER: #PLOT.DRV#
 PEN TABLE: #PEN.TABLE#



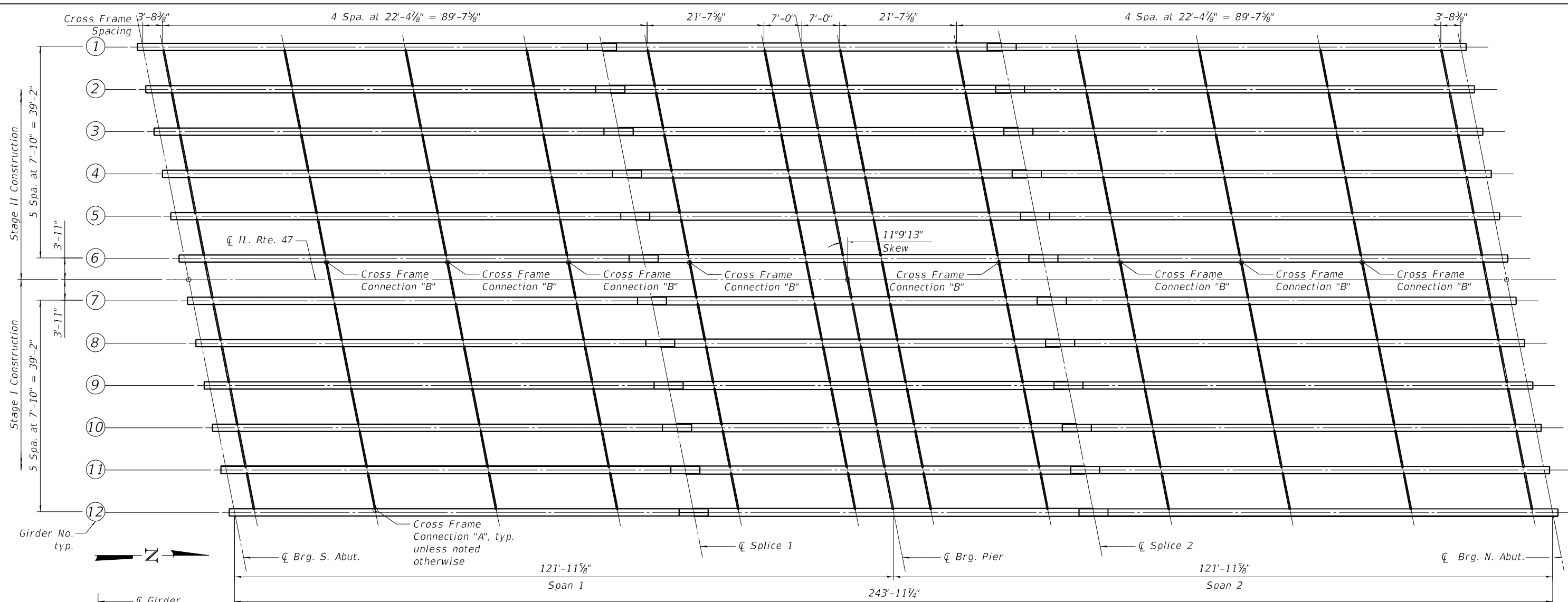
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PLOT SCALE =	CHECKED - BT & WAO	REVISED -
PLOT DATE = 2/1/2021	DRAWN - JA	REVISED -
	CHECKED - 2/1/21	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

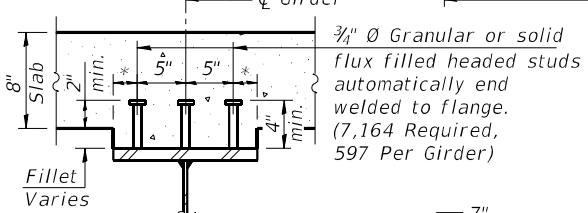
APPROACH SLAB DETAILS - II
 STRUCTURE NO. 032-0125

SHEET NO. 16 OF 31 SHEETS

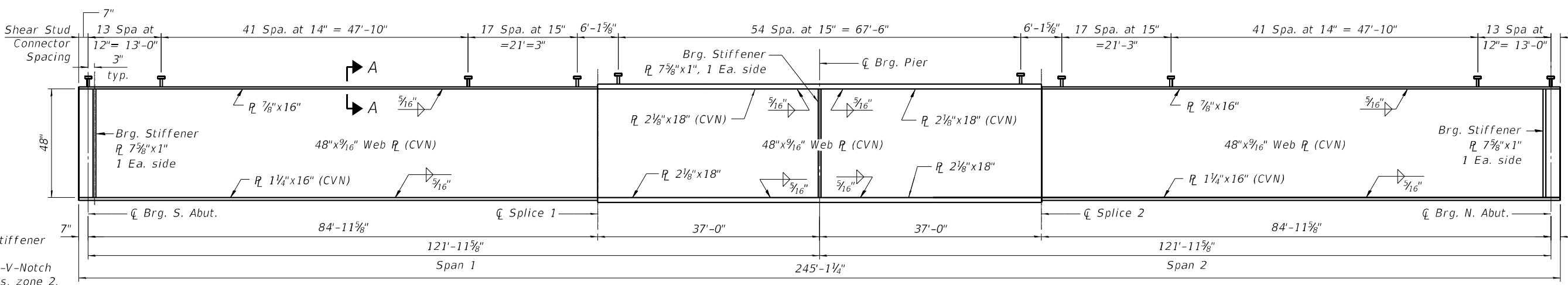
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	101
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN



SECTION A-A
* 3" for 16" flange
4" for 18" flange



GIRDER ELEVATION

Notes:
All web, flange and stiffener plates shall be Gr. 50
"CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.
See Sheet 18 of 31 for Cross Frame Details.
All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross rods at supports may be temporarily disconnected to install bearing anchor rods.

PROJECT NO.: #PROJECTING
HRG PROJ. CONTACT: #HRG24K
FILE NAME: 032025-66HIS_017_becm.dgn
PLOT DRIVER: #PLOT.DRV
PEN TABLE: #PEN.TABLE



USER NAME = jandrews	DESIGNED - JA	REVISIONS
	CHECKED - BT & WAO	REVISIONS
PLOT SCALE =	DRAWN - JA	REVISIONS
PLOT DATE = 2/1/2021	CHECKED - 2/1/21	REVISIONS

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FRAMING PLAN AND STEEL GIRDER ELEVATION
STRUCTURE NO. 032-0125**

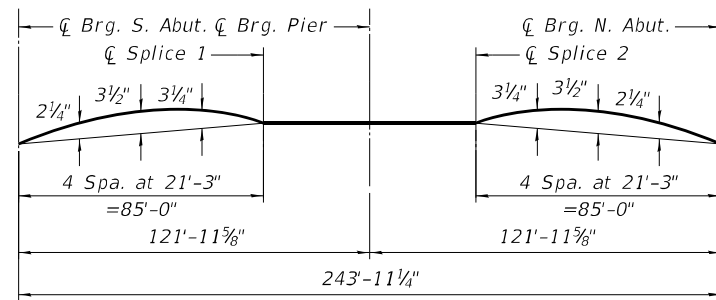
SHEET NO. 17 OF 31 SHEETS

F.A.I. RTE. 55	SECTION [(32-3) HB-1] HBK	COUNTY GRUNDY	TOTAL SHEETS 173	SHEET NO. 102
CONTRACT NO. 66H15				

ILLINOIS FED. AID PROJECT

INTERIOR GIRDER MOMENT TABLE			
	0.4 Sp. 1 or 0.6 Sp. 2	Pier	
Is	(in ⁴)	25305	53265
Ic(n)	(in ⁴)	65361	-
Ic(3n)	(in ⁴)	48165	-
Ic(cr)	(in ⁴)	-	60079
Ss	(in ³)	1111	2039
Sc(n)	(in ³)	1521	-
Sc(3n)	(in ³)	1401	-
Sc(cr)	(in ³)	-	2123
DC1	(k/')	1.05	1.22
MDC1	(k)	969	2649
DC2	(k/')	0.2	0.2
MDC2	(k)	188.3	434.7
DW	(k/')	0.3	0.3
MDW	(k)	280	645.6
LLDF		0.599	0.599
M _l + IM	(k)	1811.1	2271.4
Mu (Strength I)	(k)	5036.1	8798
Øf Mn	(k)	-	9761
fs DC1	(ksi)	10.5	15.6
fs DC2	(ksi)	1.6	2.5
fs DW	(ksi)	2.4	3.6
fs (l+IM)	(ksi)	14.3	12.8
fs (Service II)	(ksi)	33.1	38.4
0.95Rh Fyf	(ksi)	47.5	47.5
fs (Total)(Strength I)	(ksi)	43.8	50.4
Øf Fn	(ksi)	-	-
Vf	(k)	29.3	39.6

INTERIOR GIRDER REACTION TABLE					
	Abut.		Pier		
	Interior	Exterior	Interior	Exterior	
LLDF	0.83	0.83	0.83	0.83	
OCF	-	-	-	-	
RDC1	(k)	52.8	52.8	176.0	176.0
RDC2	(k)	9.2	9.2	31.9	31.9
RDW	(k)	17.2	17.2	57.2	57.2
R _l + IM	(k)	89.9	89.9	181.7	181.7
RTotal	(k)	169.1	169.1	446.8	446.8



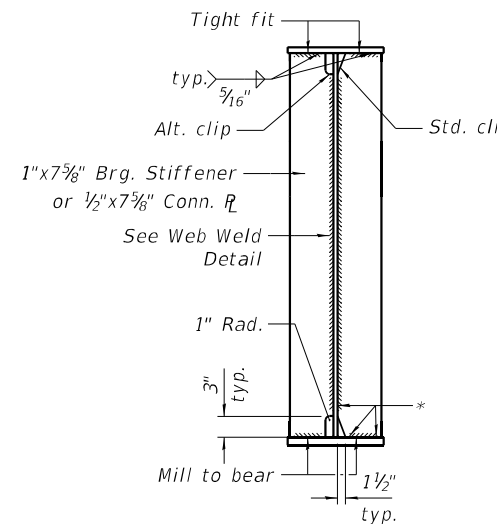
CAMBER DIAGRAM

TOP OF WEB ELEVATIONS

(For fabrication only)

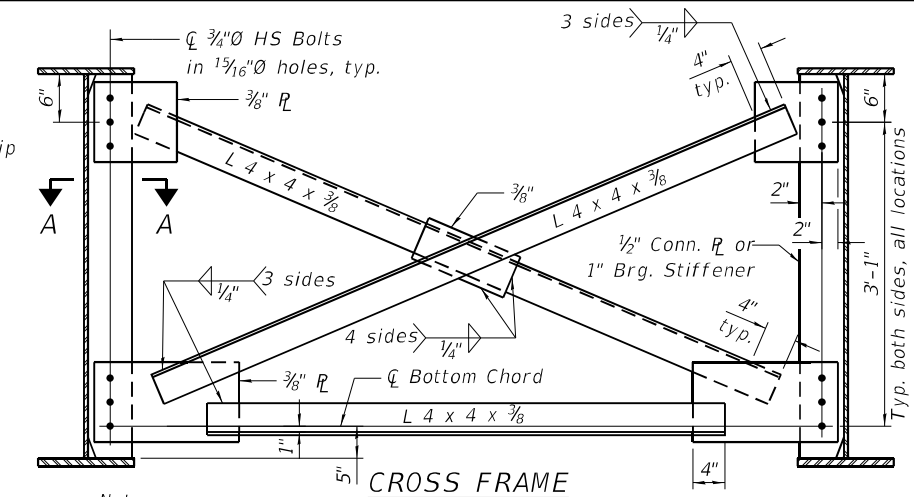
Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 6	Girder 7	Girder 8	Girder 9	Girder 10	Girder 11	Girder 12
Ø Brg. S. Abut.	647.77	647.94	648.07	648.20	648.33	648.46	648.47	648.37	648.26	648.16	648.05	647.90
Ø Splice 1	648.25	648.42	648.54	648.66	648.78	648.91	648.91	648.80	648.68	648.57	648.45	648.29
Ø Pier	648.23	648.38	648.50	648.62	648.74	648.86	648.86	648.74	648.62	648.50	648.38	648.23
Ø Splice 2	648.34	648.46	648.57	648.69	648.80	648.91	648.91	648.79	648.67	648.55	648.42	648.26
Ø Brg. N. Abut.	647.91	648.05	648.16	648.26	648.37	648.47	648.46	648.33	648.20	648.07	647.94	647.77

- Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs(Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs(Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.⁴ and in.³).
- Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs(Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in.⁴ and in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
- MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
- DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_l + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
- Mu (Strength I): Factored design moment (kip-ft.).
1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 M_l + IM
- Øf Mn: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
- fs DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
- MDC1/ Snc
- fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
- MDC2/ Sc(3n) or MDC2/ Sc(cr) as applicable.
- fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
- MDW/ Sc(3n) or MDW/ Sc(cr) as applicable.
- fs (l+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
- M_l + IM / Sc(n) or M_l + IM / Sc(cr) as applicable.
- fs (Service II): Sum of stresses as computed below (ksi).
- fsDC1 + fsDC2 + fsDW + 1.3 fs(l+IM)
- 0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
- fs (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
- 1.25 (fsDC1 + fsDC2) + 1.5 fsDW + 1.75 fs(l+IM)
- Øf Fn: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
- Vf: Maximum factored shear range in span computed according to Article 6.10.10.

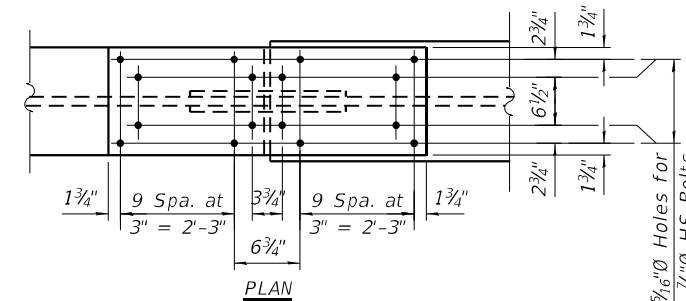


WELD AND CLIP DETAILS

* Stop welds 1/4" (±1/8") from edges as shown, typ.

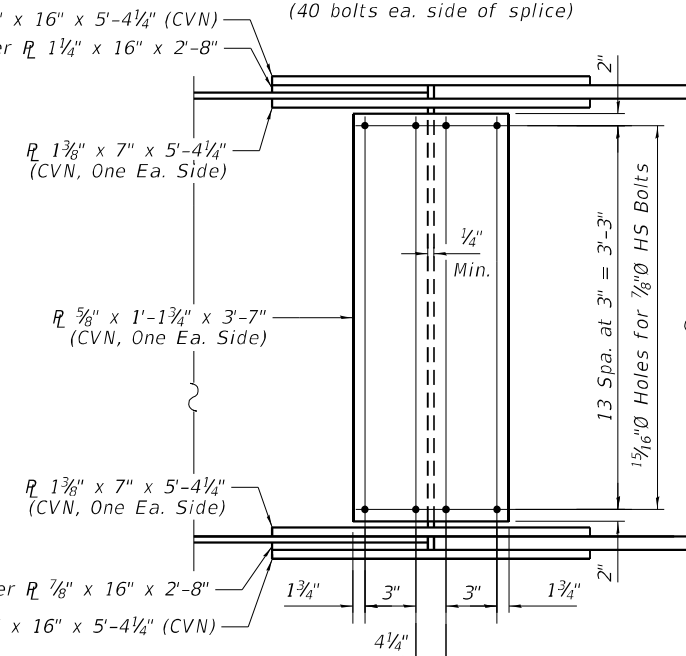


Notes:
Two hardened washers required for each set of oversized holes. Cross Frame Connection "A" shown. Cross frames under stage construction line similar except as noted in Cross Frame Connection "B" Detail.



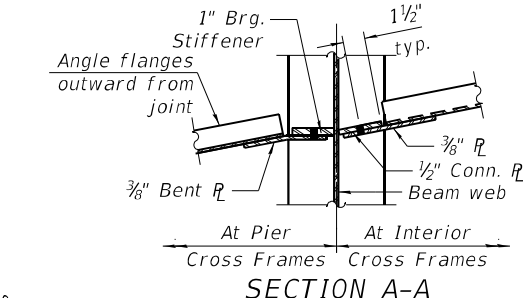
FIELD SPLICE DETAIL

(28 bolts ea. side of splice)

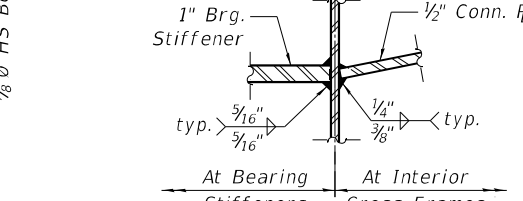


ELEVATION

(24 Required)

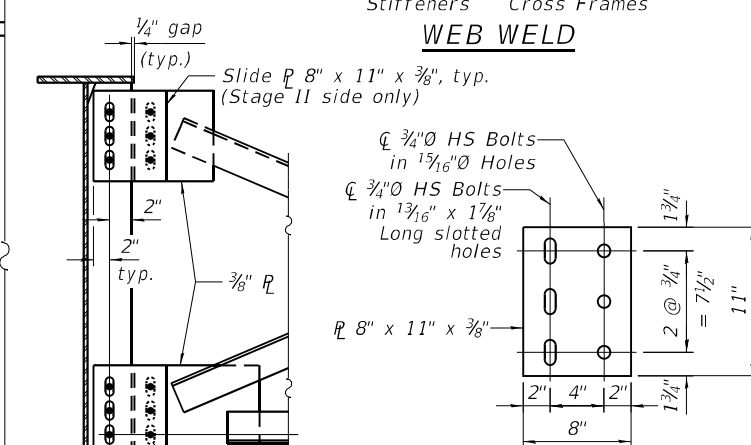


SECTION A-A



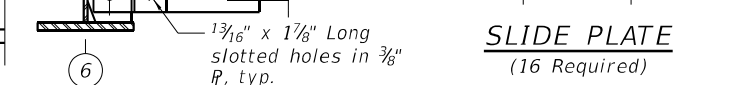
WEB WELD

Notes:
Two hardened washers required for each set of oversized and long slotted holes. See Sheet 17 of 31 for locations of Cross Frame Connection "B".



SLIDE PLATE

(16 Required)



CROSS FRAME CONNECTION "B"

Notes:
Two hardened washers required for each set of oversized and long slotted holes. See Sheet 17 of 31 for locations of Cross Frame Connection "B". Bolts in the long slotted holes shall be finger tight until the Stage II deck pour is completed. The slotted holes in the gusset plate shall be positioned to allow the bolts to move from one end of the slotted hole to the opposite end under deck load. The holes shall be positioned allowing maximum bolt displacement without laterally stressing the beams.

HRC PROJECT NO.: #PROJECTING
 HRC PROJ. CONTACT: #HRC2046
 FILE NAME: 032025-66HIS_OIB_becomer-cdp
 PLOT DRIVER: #PLOT_DRV#
 PEN TABLE: #PEN_TAB#

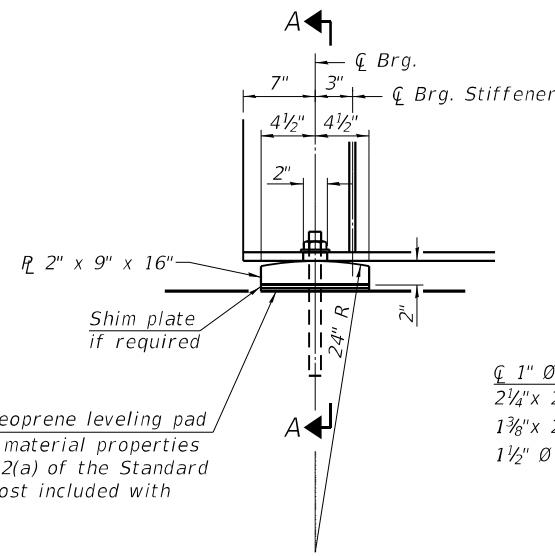


USER NAME =	jandrews
DESIGNED -	JA
CHECKED -	BT & WAO
REVISOR -	
REVISIONS -	
DRAWN -	JA
REVISOR -	
REVISIONS -	
PLOT DATE =	2/2/2021
CHECKED -	2/2/21
REVISOR -	
REVISIONS -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

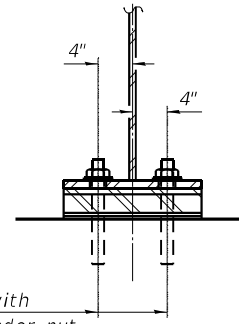
STRUCTURAL STEEL DETAILS
STRUCTURE NO. 032-0125
SHEET NO. 18 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	103
CONTRACT NO. 66H15				



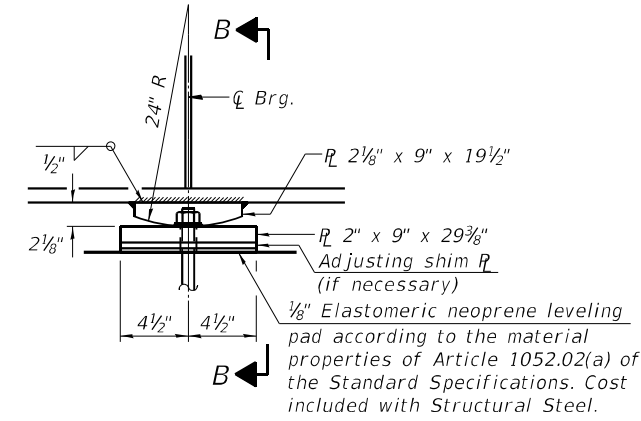
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT ABUTMENT

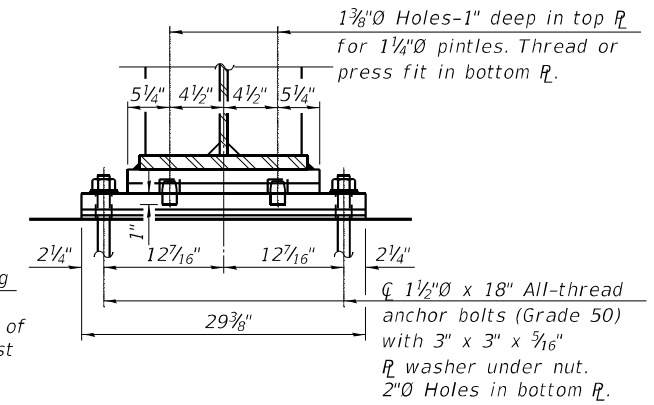


1" \emptyset x 12" anchor bolts with 2 1/4" x 2 1/4" x 5/16" R washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2" \emptyset holes in bearing plate.

SECTION A-A



ELEVATION AT PIER

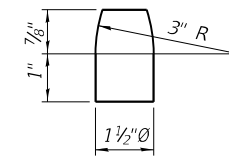


SECTION B-B

FIXED BEARING

Notes:
 Anchor bolts shall be according to Article 521.06 of the Standard Specifications.
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
 Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
 The structural steel bearing plates shall conform to the requirements of AASHTO M270 Grade 36.
 Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

FIXED BEARING



PINTLE
(M270 Gr. 36)

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	48
Anchor Bolts, 1 1/2"	Each	24

HRC PROJECT NO.: #PROJECTING08
 HRC PROJ. CONTACT: #HRC2046
 FILE NAME: 032025-66HIS_OIB.DWG
 PLOT DRIVER: #PLOT.DRV
 PEN TABLE: #PEN.TABLE



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	CHECKED - BT & WAO	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE = 11/11/2020	CHECKED - 11/3/20	REVISED -

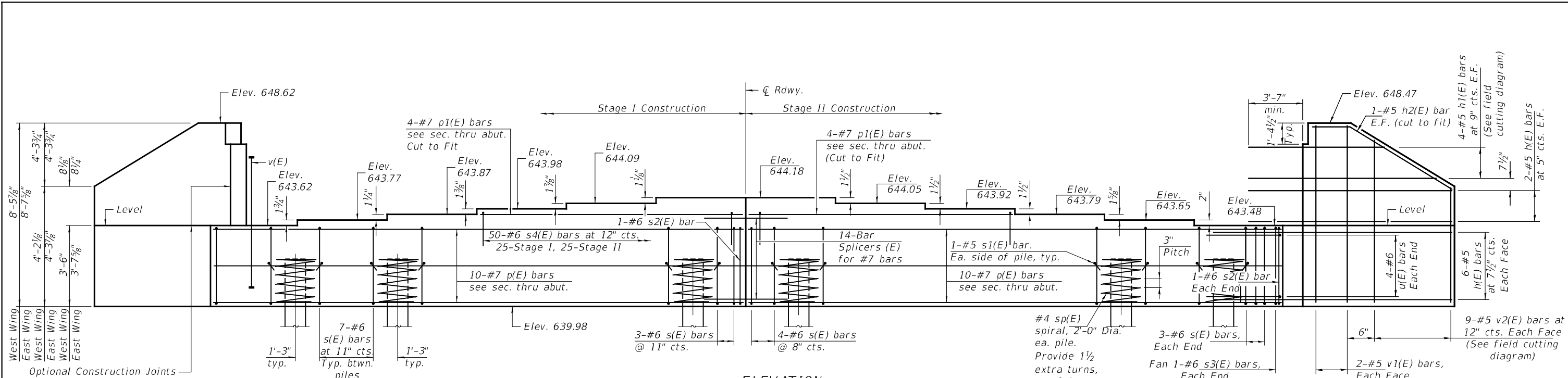
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 032-0125

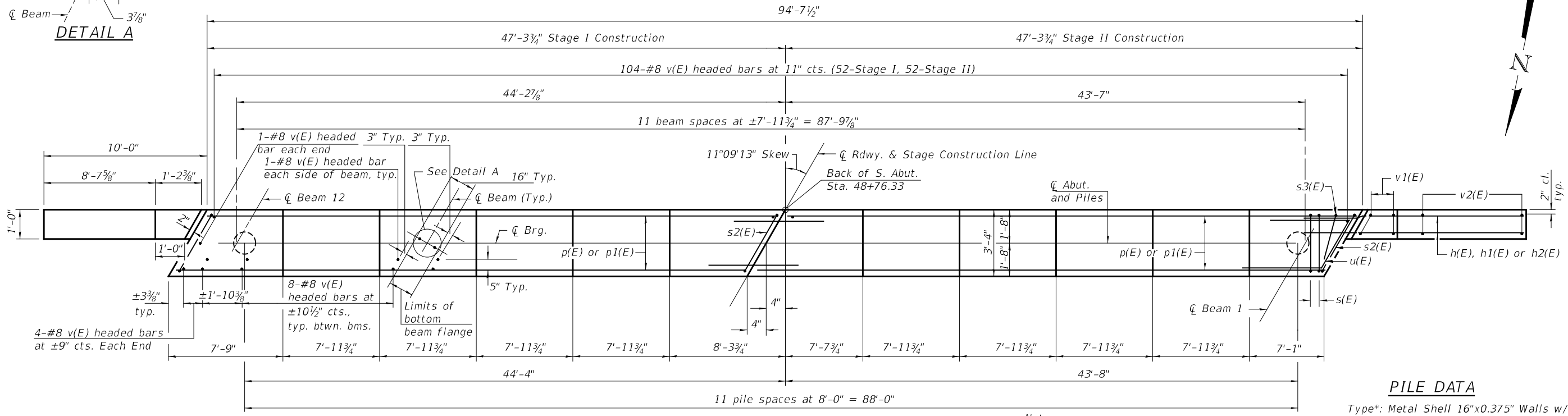
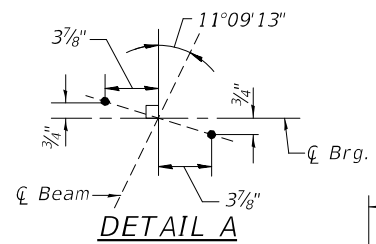
SHEET NO. 19 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	104
CONTRACT NO. 66H15				

ILLINOIS FED. AID PROJECT



ELEVATION
(Looking South)



PLAN

* Piles shall be driven through 30" diameter pre-cored holes extending to elevation 630.0 according to Art. 512.09(c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturers recommendations to achieve a Q_u of 1.5 tsf. Cost included in driving piles.

Notes:
 Pour steps monolithically with cap.
 Space reinforcement to miss anchor bolts.
 For section through abut., bar details and Bill of Material see sheet 21 of 31.
 For details of piles see sheet 26 of 31.
 Headed bars shall conform to ASTM A790 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

PILE DATA
 Type*: Metal Shell 16"x0.375" Walls w/ Pile Shoes
 Nominal Required Bearing: 624 kips
 Factored Resistance Available: 343 kips
 Est. Length: 52 ft
 No. Production Piles: 11
 No. Test Piles: 1

MODEL: 140261.MXMF
 FILE NAME: V:\1267 - 155 and IL 47 Interchange (Broomfield) D3\CAD\CADD\CADD_Sheets\0320125-66H15-020AS_Abut.dwg
 and IL 47 Interchange (Broomfield) D3\CAD\CADD\CADD_Sheets\0320125-66H15-020AS_Abut.dwg

Hutchison Engineering, Inc.
 Jacksonville-Moline-Peoria-Shorewood
 Since 1945

USER NAME = BNeibel	DESIGNED - ZL	REVISED -
CHECKED - BAN	REVISIONS -	
PLOT SCALE =	DRAWN - JCW	REVISED -
PLOT DATE = 10/5/2020	CHECKED - ZL/BAN	REVISED -

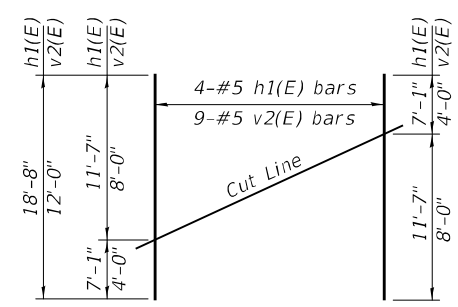
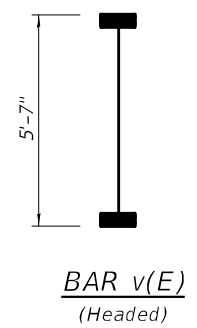
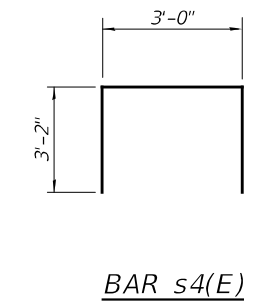
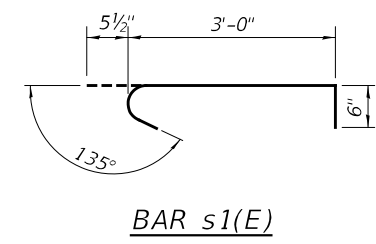
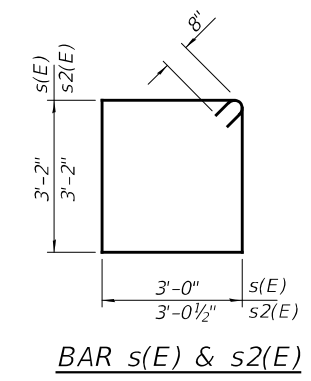
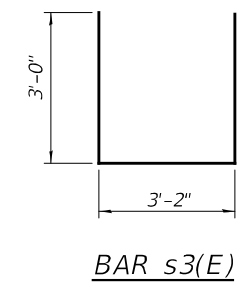
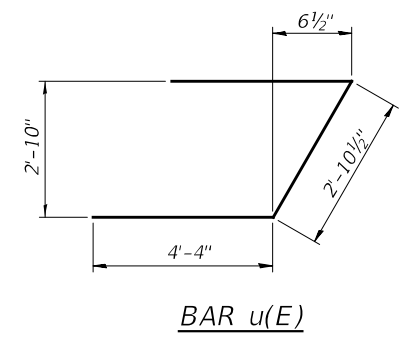
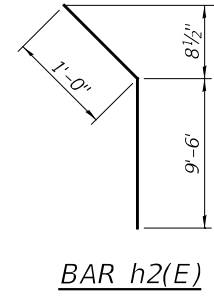
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 032-0125

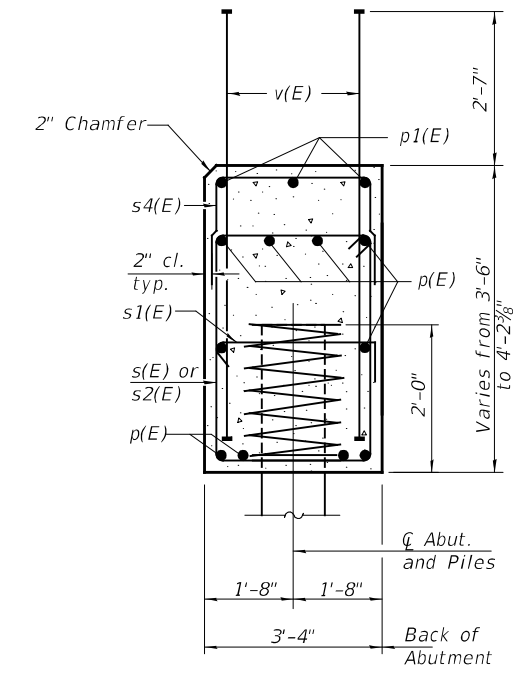
SHEET 20 OF 31 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	105
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

MODEL: 14001E1.MXD
 FILE NAME: V:\1267 - 155 and IL 47 Interchange (Bloomington) 0320125-66H15-0215 Abut Details.dgn



Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite face.



**SOUTH ABUTMENT
BILL OF MATERIAL**

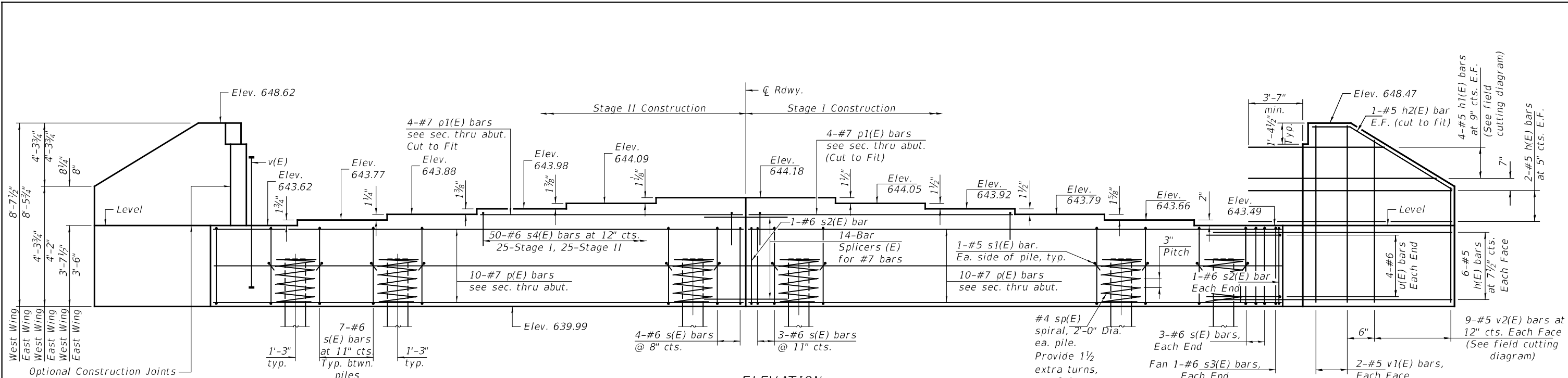
Bar	No.	Size	Length	Shape
h(E)	32	#5	12'-5"	—
h1(E)	8	#5	18'-8"	—
h2(E)	4	#5	10'-6"	—
p(E)	20	#7	46'-11"	—
p1(E)	8	#7	23'-11"	—
s(E)	83	#6	13'-8"	□
s1(E)	24	#5	4'-0"	U
s2(E)	3	#6	13'-9"	□
s3(E)	2	#6	9'-2"	□
s4(E)	50	#5	9'-4"	□
* sp(E)	12	#4	2'-0"	W
u(E)	8	#6	11'-7"	U
v(E)	226	#8	5'-7"	—
v1(E)	8	#5	8'-2"	—
v2(E)	18	#5	12'-0"	—
Structure Excavation		Cu. Yd.	370	
Concrete Structures		Cu. Yd.	48.6	
Reinforcement Bars, Epoxy Coated		Pound	9,660	
Furnishing Metal Shell Piles, 16"x0.375"		Foot	572	
Driving Piles		Foot	572	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	12	

* Length is height of spiral.

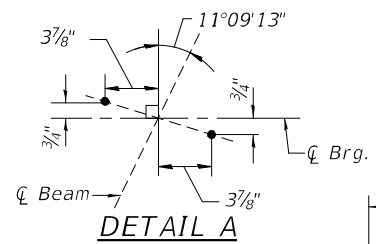
Notes:
 Headed bars shall conform to ASTM A790 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

USER NAME = BNeibel	DESIGNED - ZL	REVISED -
CHECKED - BAN	REVISED -	
PLOT SCALE =	DRAWN - JCW	REVISED -
PLOT DATE = 10/5/2020	CHECKED - ZL/BAN	REVISED -

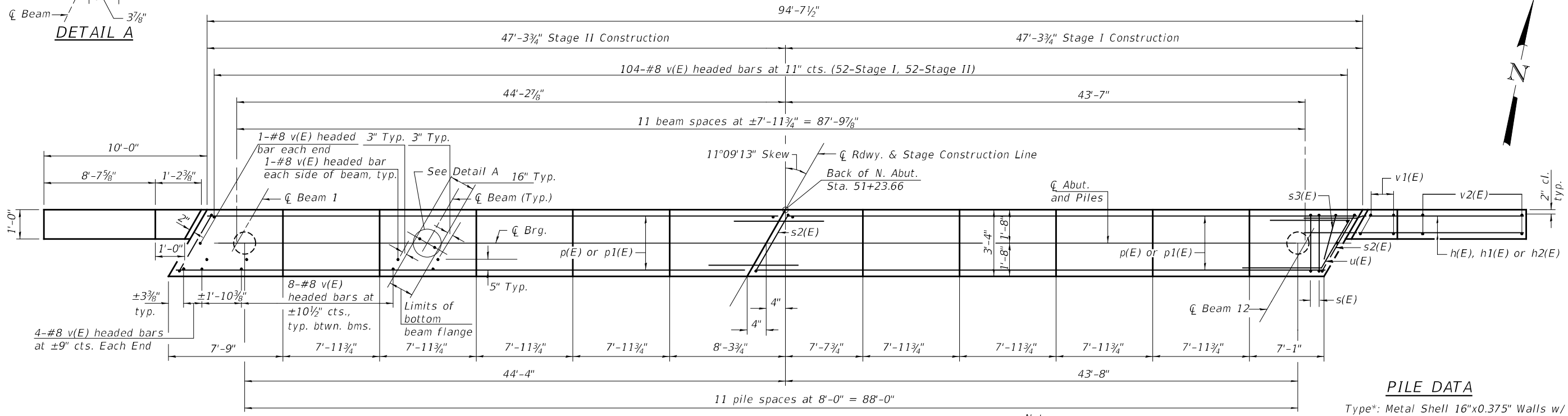
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	106
			CONTRACT NO. 66H15	
ILLINOIS FED. AID PROJECT				



ELEVATION
(Looking North)



DETAIL A



PLAN

PILE DATA

Type*: Metal Shell 16"x0.375" Walls w/ Pile Shoes
 Nominal Required Bearing: 622 kips
 Factored Resistance Available: 342 kips
 Est. Length: 57ft
 No. Production Piles: 11
 No. Test Piles: 1

Notes:

Pour steps monolithically with cap.
 Space reinforcement to miss anchor bolts.
 For section through abut., bar details and Bill of Material see sheet 23 of 31.
 For details of piles see sheet 26 of 31.
 Headed bars shall conform to ASTM A790 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

* Piles shall be driven through 30" diameter pre-cored holes extending to elevation 630.0 according to Art. 512.09(c) of the Standard Specifications except that the void space outside of the pile shall be filled with bentonite according to the manufacturers recommendations to achieve a Q_u of 1.5 tsf. Cost included in driving piles.

MODEL: 140261.MXMTS
 FILE NAME: V04263 - 155 and IL 47 Interchange (I80cm)DOT D3\KCAD\CADD_Sheets\0320125-66H15-022-41_Abut.00p

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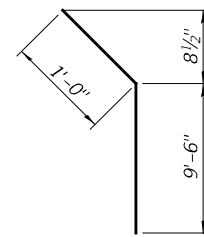
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CHECKED - BAN	REVISIONS -	
PLOT SCALE =	DRAWN - JCW	REVISED -
PLOT DATE = 10/5/2020	CHECKED - ZL/BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

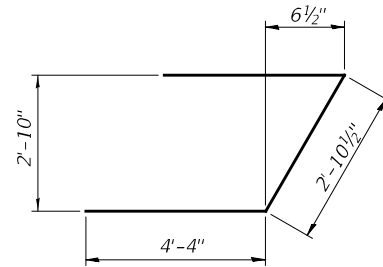
NORTH ABUTMENT
STRUCTURE NO. 032-0125

SHEET 22 OF 31 SHEETS

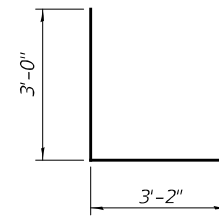
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	107
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				



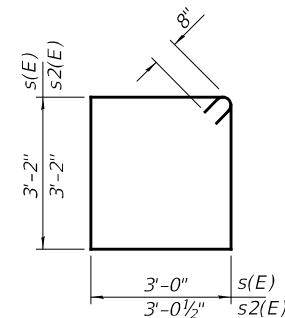
BAR h2(E)



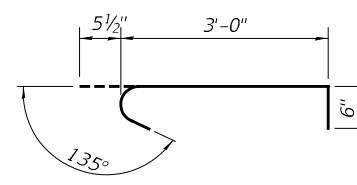
BAR u(E)



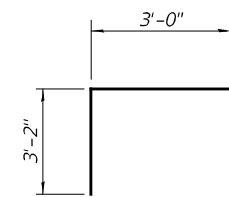
BAR s3(E)



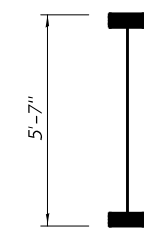
BAR s(E) & s2(E)



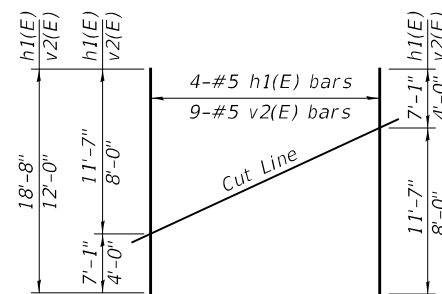
BAR s1(E)



BAR s4(E)

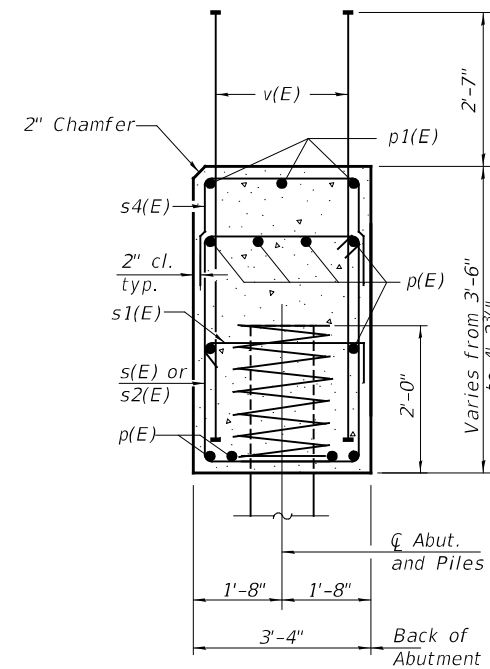


BAR v(E)
(Headed)



FIELD CUTTING DIAGRAM

Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite face.



SEC. THRU ABUT.

(Dimensions at right angles to abutment.)

NORTH ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	12'-5"	—
h1(E)	8	#5	18'-8"	—
h2(E)	4	#5	10'-6"	—
p(E)	20	#7	46'-11"	—
p1(E)	8	#7	23'-11"	—
s(E)	83	#6	13'-8"	□
s1(E)	24	#5	4'-0"	┌┐
s2(E)	3	#6	13'-9"	┌┐
s3(E)	2	#6	9'-2"	┌┐
s4(E)	50	#5	9'-4"	┌┐
* sp(E)	12	#4	2'-0"	⊞
u(E)	8	#6	11'-7"	┌┐
v(E)	226	#8	5'-7"	—
v1(E)	8	#5	8'-2"	—
v2(E)	18	#5	12'-0"	—
Structure Excavation		Cu. Yd.	370	
Concrete Structures		Cu. Yd.	48.6	
Reinforcement Bars, Epoxy Coated		Pound	9,660	
Furnishing Metal Shell Piles, 16"x0.375"		Foot	627	
Driving Piles		Foot	627	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	12	

* Length is height of spiral.

Notes:

Headed bars shall conform to ASTM A790 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

MODEL: 140021.MXMF
FILE NAME: V:\1267 - 155 and IL 47 Interchange (Bloomington) 0320125-66H15-023-01 Abut Details.dgn

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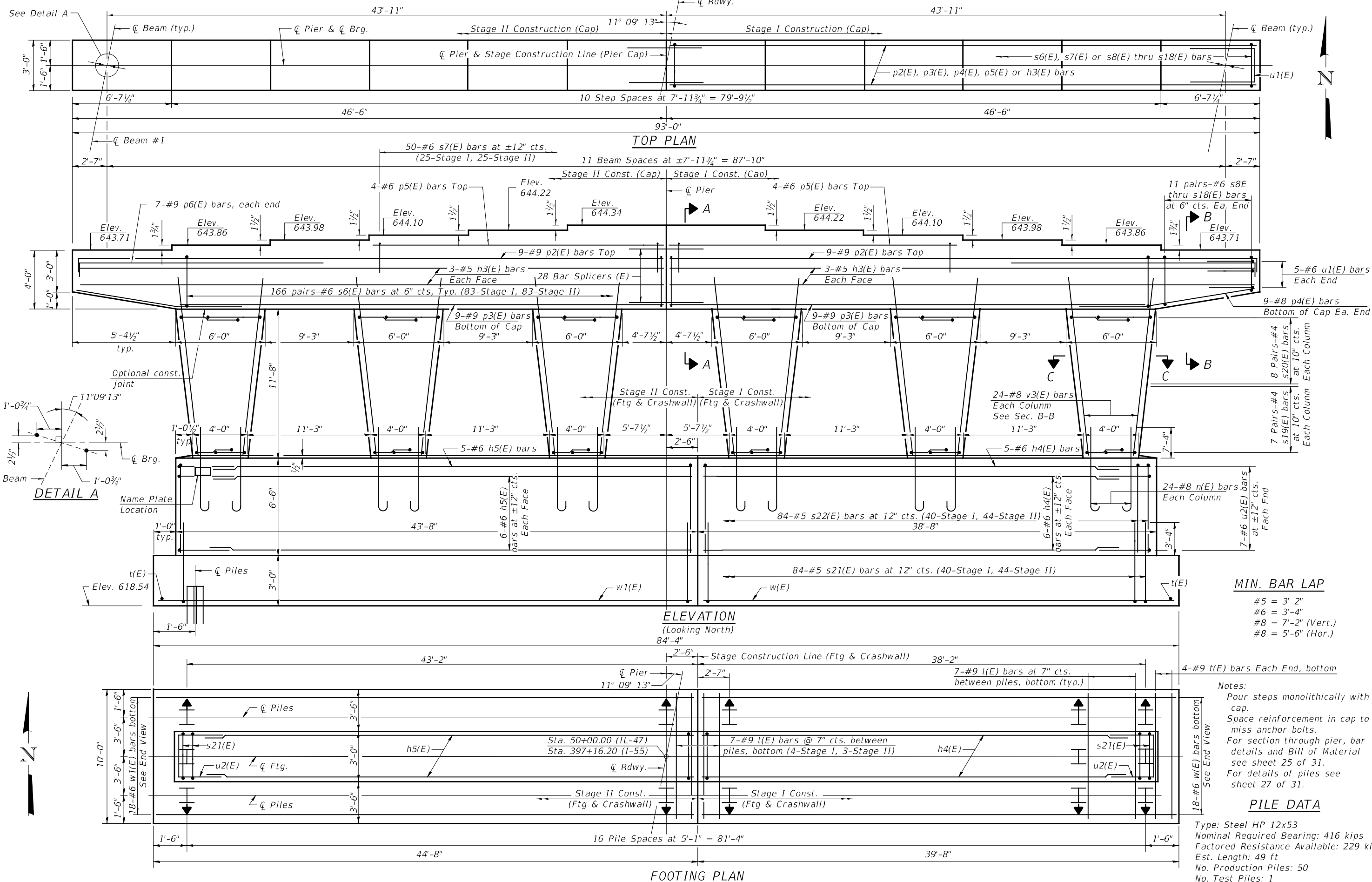
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PLOT DATE = 10/5/2020	DRAWN - JCW	REVISED -
	CHECKED - ZL/BAN	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NORTH ABUTMENT DETAILS
STRUCTURE NO. 032-0125

SHEET 23 OF 31 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	108
			CONTRACT NO. 66H15	
			ILLINOIS FED. AID PROJECT	



MODEL: 14001ENL.MXD
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 DATE: 10/5/2020

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DRAWN - JCW	REVISOR -	
CHECKED - ZL/BAN	REVISOR -	

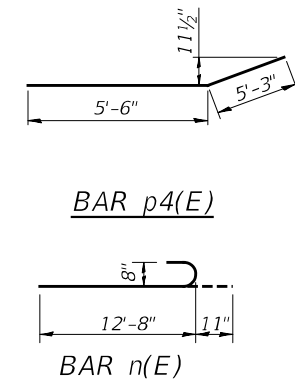
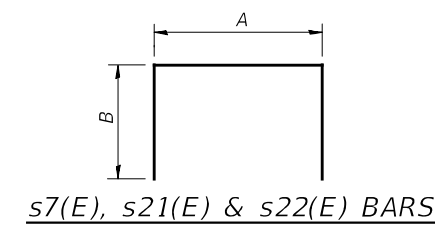
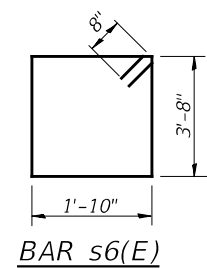
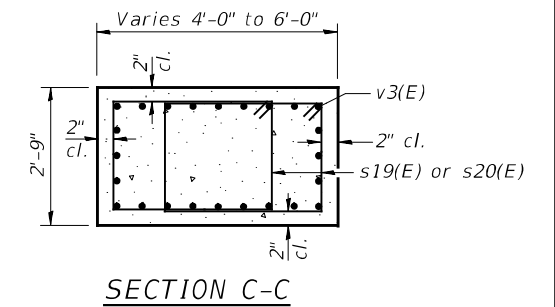
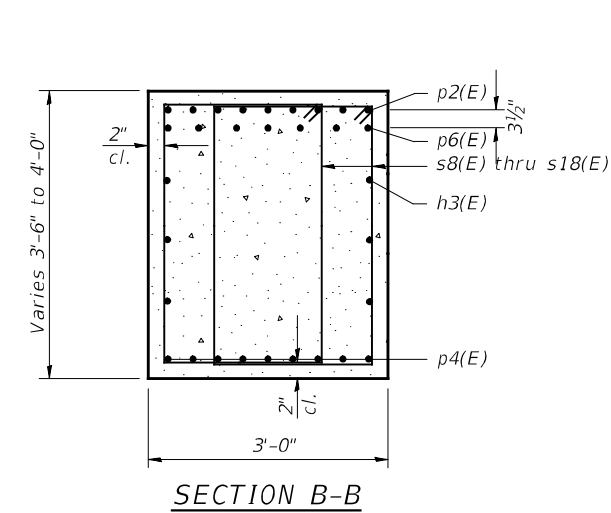
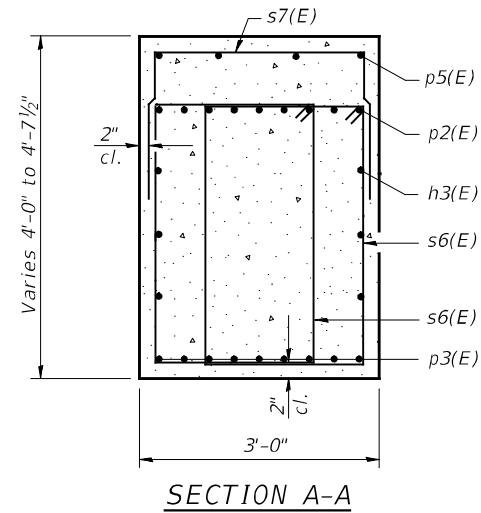
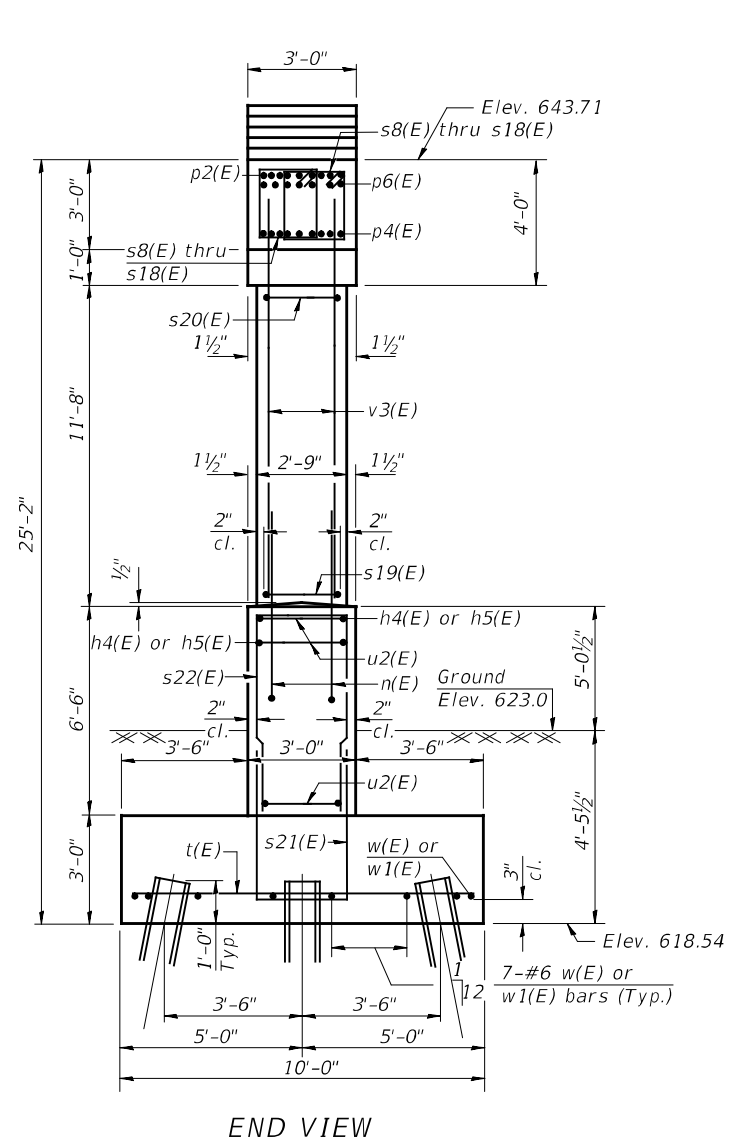
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER
STRUCTURE NO. 032-0125

SHEET 24 OF 31 SHEETS

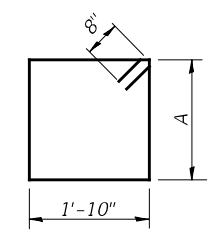
FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	109
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 27 of 31.
 Cut existing piles off at Elev. 616.54.



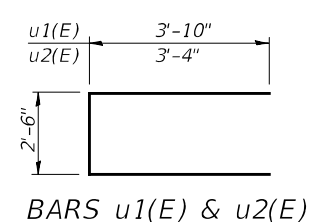
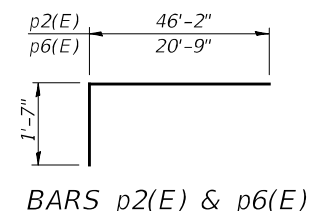
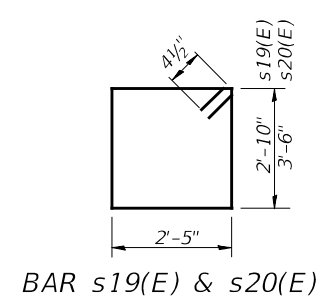
A & B DIMENSIONS

Bar	A	B
s7(E)	2'-8"	3'-6"
s21(E)	2'-8"	6'-1"
s22(E)	2'-8"	6'-2"



A DIMENSIONS

Bar	A
s8(E)	2'-8"
s9(E)	2'-9"
s10(E)	2'-10 1/2"
s11(E)	2'-11 1/2"
s12(E)	3'-0 1/2"
s13(E)	3'-1 1/2"
s14(E)	3'-3"
s15(E)	3'-4"
s16(E)	3'-5"
s17(E)	3'-6"
s18(E)	3'-7 1/2"



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h3(E)	12	#5	46'-2"	—
h4(E)	17	#6	38'-4"	—
h5(E)	17	#6	43'-4"	—
n(E)	144	#8	13'-7"	⌋
p2(E)	18	#9	47'-9"	⌋
p3(E)	18	#9	41'-0"	⌋
p4(E)	18	#8	10'-9"	⌋
p5(E)	8	#6	23'-7"	⌋
p6(E)	14	#9	22'-4"	⌋
s6(E)	332	#6	12'-4"	⌋
s7(E)	50	#6	9'-8"	⌋
s8(E)	4	#6	10'-4"	⌋
s9(E)	4	#6	10'-6"	⌋
s10(E)	4	#6	10'-9"	⌋
s11(E)	4	#6	10'-11"	⌋
s12(E)	4	#6	11'-1"	⌋
s13(E)	4	#6	11'-3"	⌋
s14(E)	4	#6	11'-6"	⌋
s15(E)	4	#6	11'-8"	⌋
s16(E)	4	#6	11'-10"	⌋
s17(E)	4	#6	12'-0"	⌋
s18(E)	4	#6	12'-3"	⌋
s19(E)	84	#4	11'-3"	⌋
s20(E)	96	#4	12'-7"	⌋
s21(E)	84	#5	14'-10"	⌋
s22(E)	84	#5	15'-0"	⌋
t(E)	120	#9	9'-8"	—
u1(E)	10	#6	10'-2"	⌋
u2(E)	14	#6	9'-2"	⌋
v3(E)	144	#8	15'-0"	—
w(E)	18	#6	39'-4"	—
w1(E)	18	#6	44'-4"	—
Structure Excavation		Cu. Yd.	65	
Concrete Structures		Cu. Yd.	233.0	
Reinforcement Bars, Epoxy Coated		Pound	39,170	
Furnishing Steel HP 12x53 Piles		Foot	2,450	
Driving Piles		Foot	2,450	
Test Pile Steel HP 12x53		Each	1	

MODEL: 14091.MXMF
 FILE NAME: V:\1267 - 155 and IL 47 Interchange (I80onI80T) D3\CADD\CADD_Sheets\0320125-66H15-025-Per Details.dgn
 DATE: 10/5/2020

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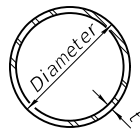
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CHECKED - BAN	REVISIONS -	
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PIER
 STRUCTURE NO. 032-0125**

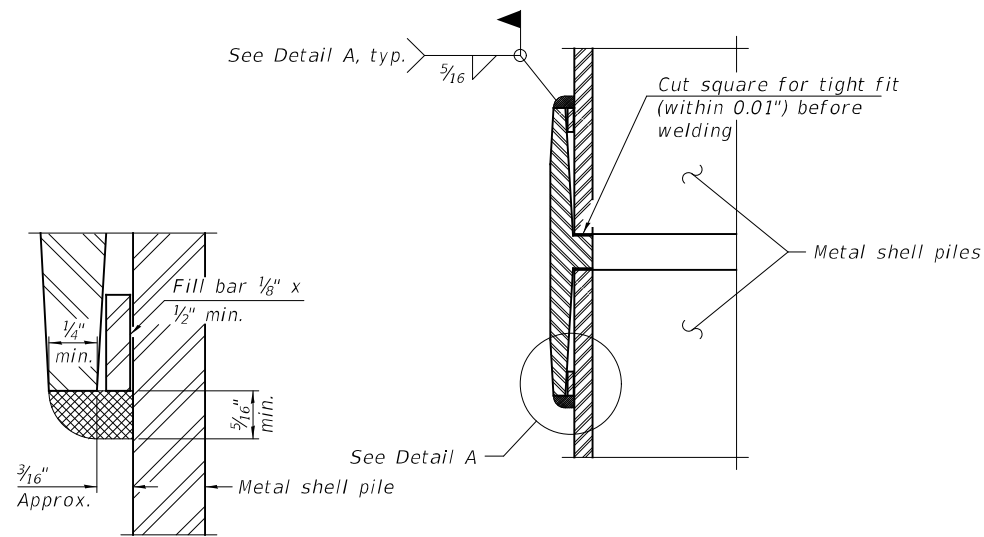
SHEET 25 OF 31 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	110
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

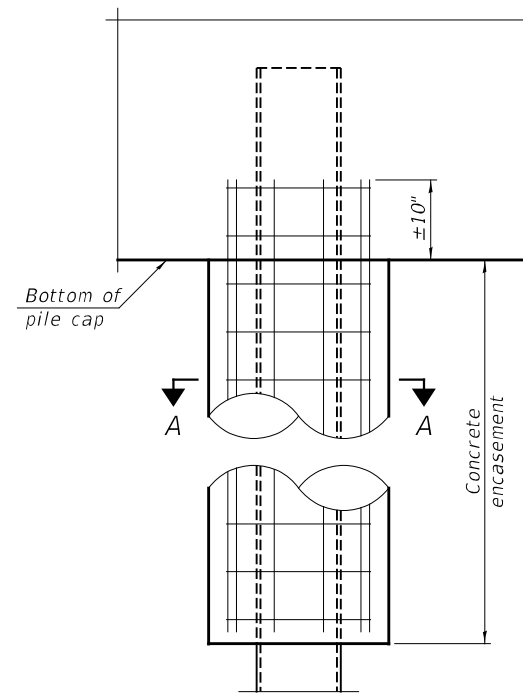


METAL SHELL PILE TABLE

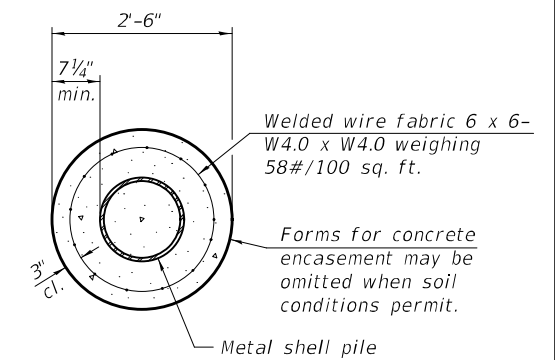
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A

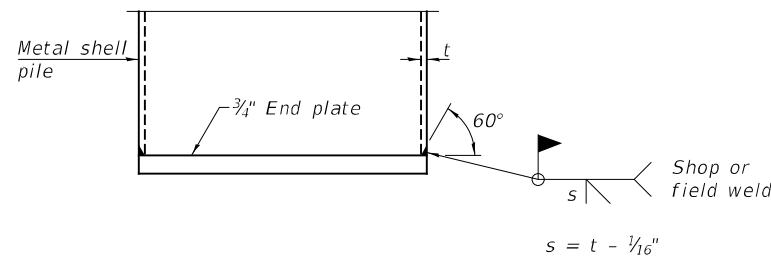


ELEVATION



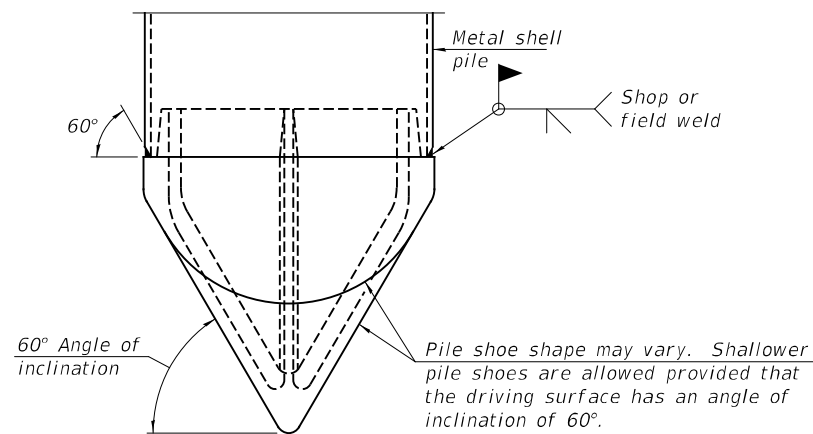
SECTION A-A

INDIVIDUAL PILE CONCRETE ENCASUREMENT
(When specified)



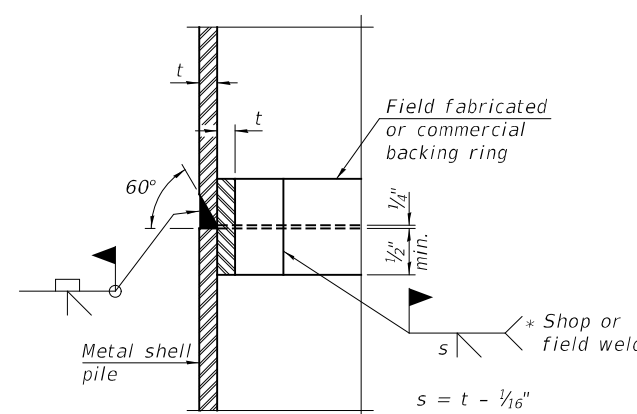
END PLATE ATTACHMENT

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



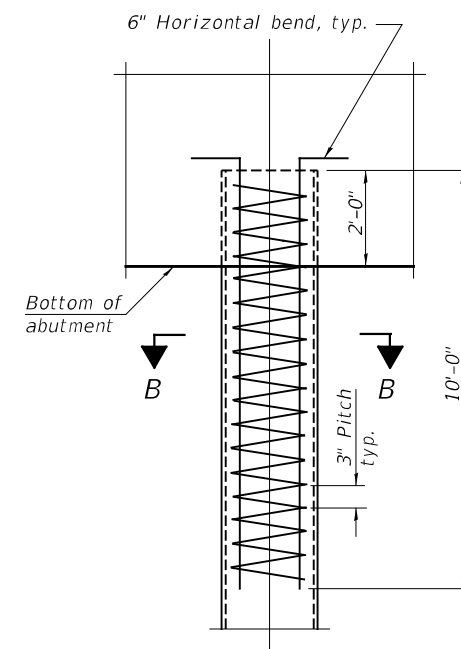
PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).



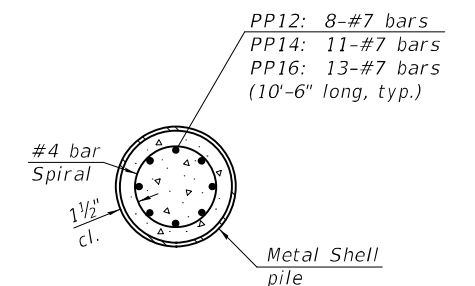
COMPLETE PENETRATION WELD SPLICE

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



ELEVATION

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)



SECTION B-B

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**METAL SHELL PILE DETAILS
STRUCTURE NO. 032-0125**

SHEET 26 OF 31 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	111
			CONTRACT NO. 66H15	

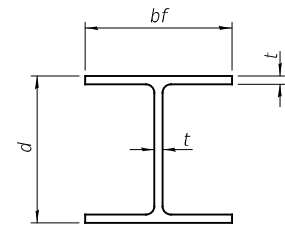
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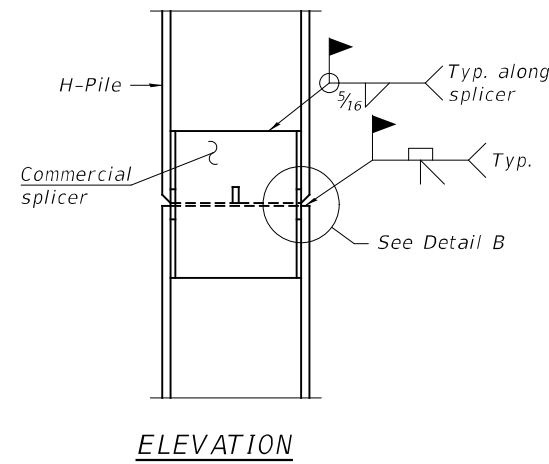
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	CHECKED - ZL	REVISED -
PLOT SCALE =	DRAWN - JCW	REVISED -
PLOT DATE = 10/5/2020	CHECKED - BAN/ZL	REVISED -

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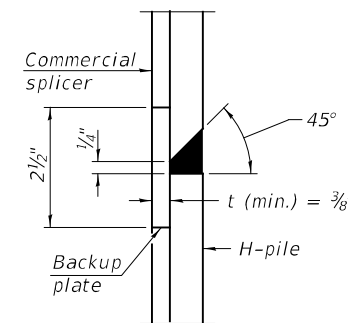


STEEL PILE TABLE

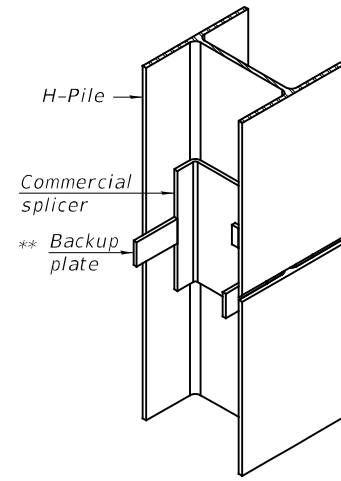
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
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

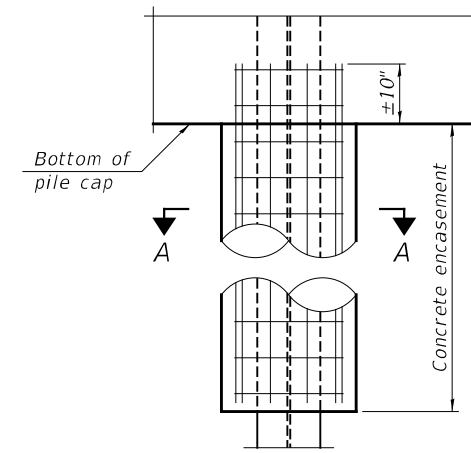


DETAIL "B"

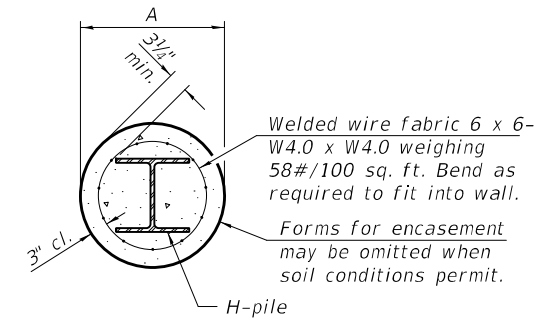


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE

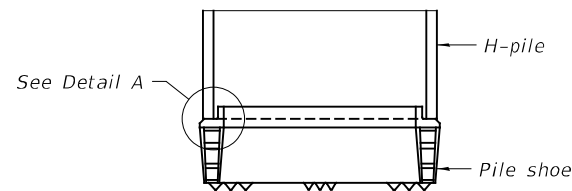


ELEVATION

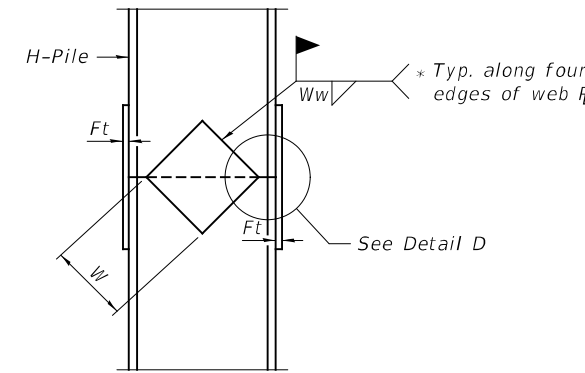


SECTION A-A

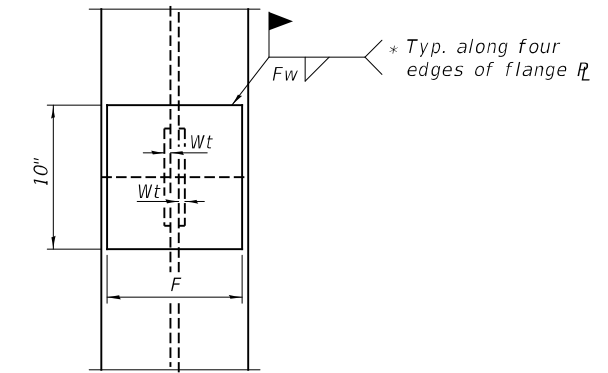
INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



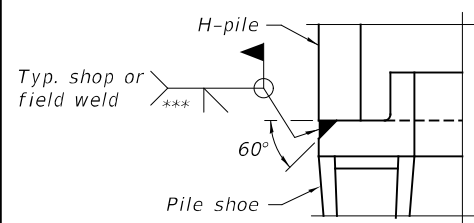
ELEVATION



ELEVATION

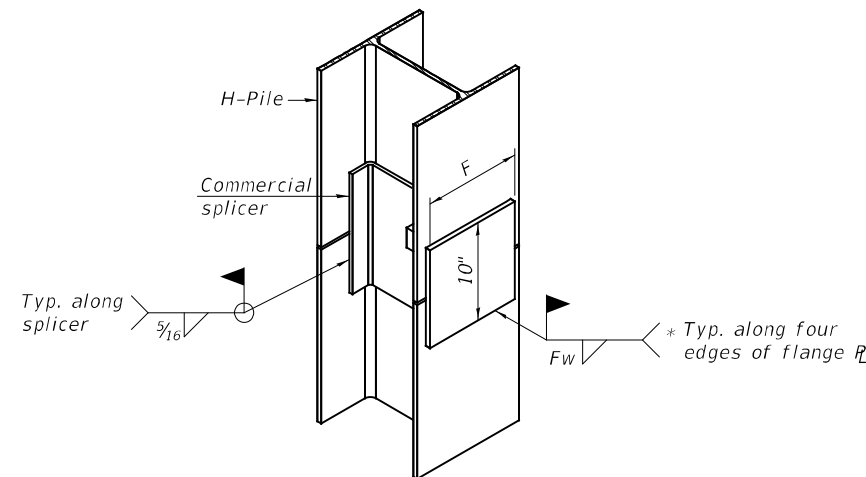


END VIEW



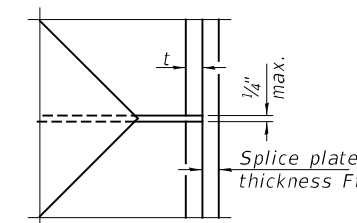
DETAIL A

SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
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"	1 1/16"	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"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	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"

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

* 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.).

MODEL: 140821.MNF.FS FILE NAME: V:\1207-155 and IL 47 Interchange (B)Beam-FDOT D3\CAD\CADD-Shr\0320125-66H15-027-HP_Pile.dgn

Hutchison Engineering, Inc.
Jacksonville-Moline-Peoria-Shorewood
Since 1945

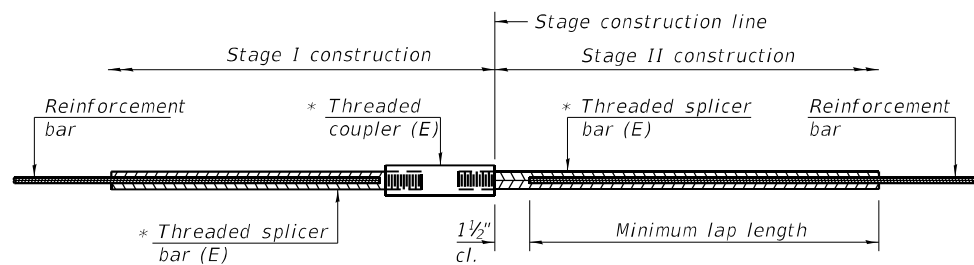
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PLOT SCALE =	CHECKED - ZL	REVISED -
PLOT DATE = 10/5/2020	DRAWN - JCW	REVISED -
	CHECKED - BAN/ZL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HP PILE DETAILS
STRUCTURE NO. 032-0125**

SHEET 27 OF 31 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	112
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

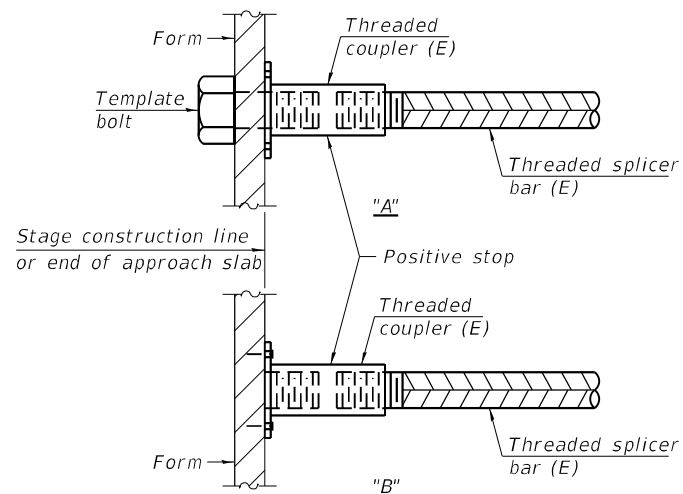


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

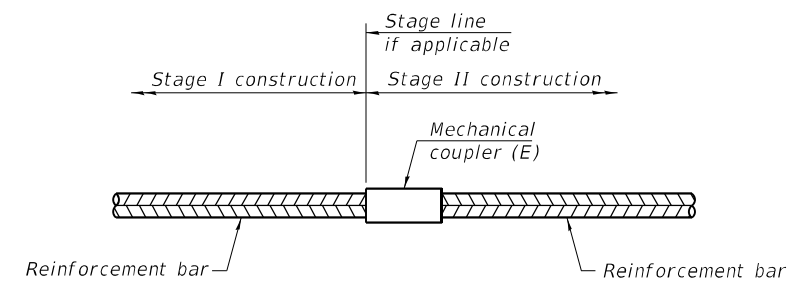
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Superstructure	#5	866	3'-6"
Superstructure	#6	24	4'-4"
Approach Slabs	#5	172	3'-6"
Approach Slabs	#8	122	5'-11"



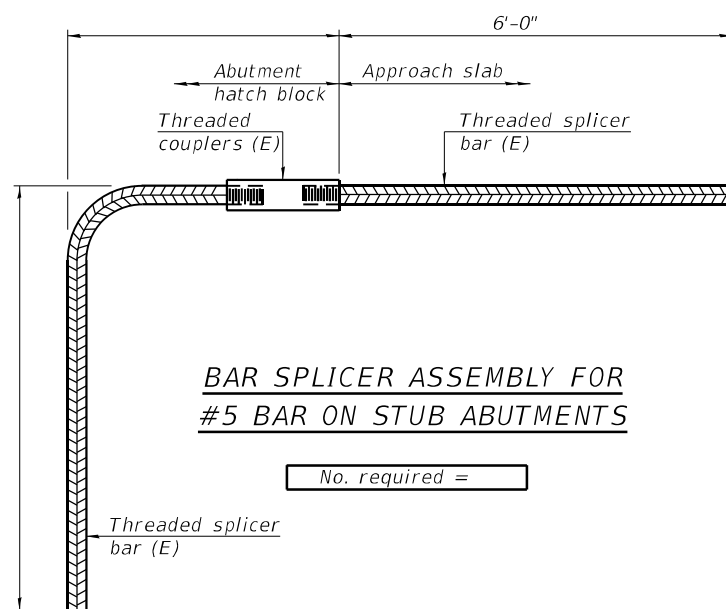
INSTALLATION AND SETTING METHODS

"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 STUB ABUTMENTS

No. required =

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.

HRC PROJECT NO.: #PROJECTING\$
 HRC PROJ. CONTACT: #HRC2KMS
 FILE NAME: 032025-66H15_028_bar-splicer.dgn
 PLOT DRIVER: #PLOT.DRV\$
 PEN TABLE: #PEN.TABLE\$

BSD-1

2-17-2017



USER NAME = jandrews	DESIGNED - JA	REVISED -
	CHECKED - BT & WAO	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE = 11/11/2020	CHECKED - 11/3/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 032-0125**

SHEET NO. 28 OF 31 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HKB	GRUNDY	173	113
CONTRACT NO. 66H15				

ILLINOIS FED. AID PROJECT



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 1 of 2

Date 10/30/17

ROUTE IL 47 DESCRIPTION IL 47 over I-55 Interchange at Dwight LOGGED BY Larry Myers

SECTION [(32-3)HB-1]ES LOCATION SE 1/4, SEC. 33, TWP. 31N, RNG. 7E, 3rd PM.
Latitude 41.117318, Longitude -88.413775

COUNTY Grundy DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 032-0079
Station 50+00.00

BORING NO. 03 (Center Pier)
Station 50+23
Offset 43.2 ft Rt.
Ground Surface Elev. 617.41 ft

DEPTH (ft)	DESCRIPT	UCS (tsf)	MOIST (%)	DEPTH (ft)	DESCRIPT	UCS (tsf)	MOIST (%)
0	Augered Black Silty Clay Loam Fill, Asphalt Millings Fill			0	Very Stiff Gray Silty Clay Loam Till (continued)		
3				4			
4	Stiff Brown & Gray Silty Clay Loess	1.5	22	5		3.6	15
4		P		7		B	
614.91							
612.91	Hard Brown & Gray Silty Clay Loam Till			4			
-5				5	Hard Gray Silty Clay Loam Till - Very Monolithic		
3		4.0	20	-25			
4		P		3			
				5		5.8	14
5				7		S	
7		8.7	18				
12		S		5			
-10				7		6.4	14
6				10		S	
8		9.3	18				
12		S		5			
605.41				7		6.4	13
	Very Stiff Gray Silty Clay Loam Till			10		S	
				5			
				7		5.7	15
				9		S	
-15							
				4			
				6		5.4	15
				8		S	
	Thin Sand Seams @ 17.5 Ft. with Free Water			5			
				6		5.7	15
				8		S	
-20							

SOIL BORING 032-0079.GPJ IL_DOT.GDT 3/26/18

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, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page 2 of 2

Date 10/30/17

ROUTE IL 47 DESCRIPTION IL 47 over I-55 Interchange at Dwight LOGGED BY Larry Myers

SECTION [(32-3)HB-1]ES LOCATION SE 1/4, SEC. 33, TWP. 31N, RNG. 7E, 3rd PM.
Latitude 41.117318, Longitude -88.413775

COUNTY Grundy DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 032-0079
Station 50+00.00

BORING NO. 03 (Center Pier)
Station 50+23
Offset 43.2 ft Rt.
Ground Surface Elev. 617.41 ft

DEPTH (ft)	DESCRIPT	UCS (tsf)	MOIST (%)	DEPTH (ft)	DESCRIPT	UCS (tsf)	MOIST (%)
0	Hard Gray Silty Clay Loam Till - Very Monolithic (continued)			0	Hard Gray Silty Clay Loam Till - Very Monolithic (continued)		
6				6			
8		5.9	14	8			
10		S		9		5.7	15
				10		S	
555.91							
	End of Boring						
				6			
				7		5.7	16
				10		S	
-45							
				5			
				7		5.7	16
				10		S	
				6			
				7		5.7	15
				10		S	
-50							
				6			
				8		5.7	15
				10		S	
				6			
				9		5.7	15
				10		S	
-60							

SOIL BORING 032-0079.GPJ IL_DOT.GDT 3/26/18

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, form 137 (Rev. 8-99)

MODEL: I:\MODELS\MAME FILE NAME: V:\2017-155 and IL 47 Interchange (BBS)DOT D3\CADD\CADD Sheets\020125-66H15-031-Boring 3.dgn

Hutchison Engineering, Inc.
Jacksonville-Moline-Peoria-Shorewood
Since 1945

USER NAME = BNeibel	DESIGNED - BAN	REVISED -
CHECKED - ZL	REVISED -	
PLOT SCALE =	DRAWN - JCW	REVISED -
PLOT DATE = 11/11/2020	CHECKED - BAN/ZL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS
STRUCTURE NO. 032-0125**

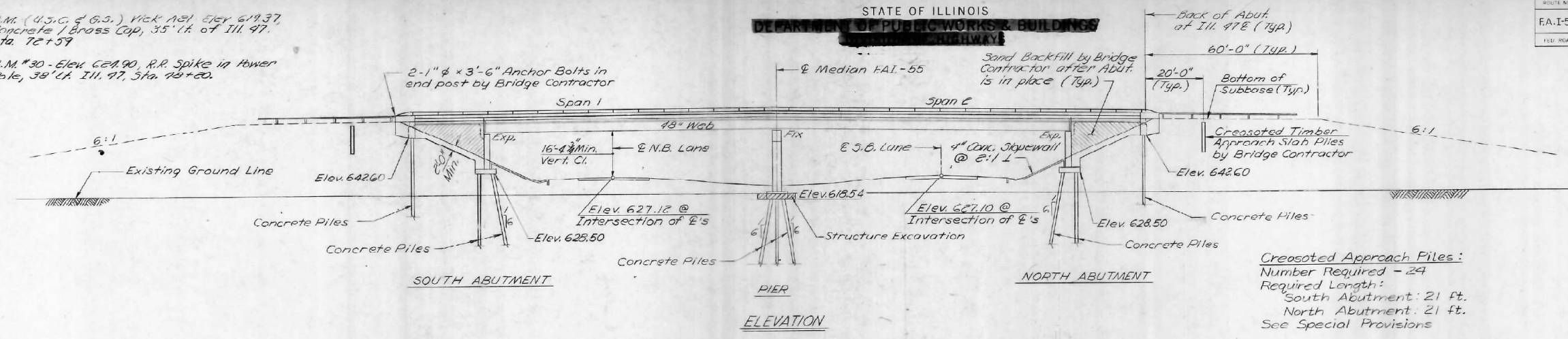
SHEET 31 OF 31 SHEETS

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	116
			CONTRACT NO. 66H15	
		ILLINOIS FED. AID PROJECT		

B.M. (4.5' G. & 6.5') VICK 121 Elev 619.37
 Concrete / Brass Cap, 35' L. of Ill. 97,
 Sta. 72+59

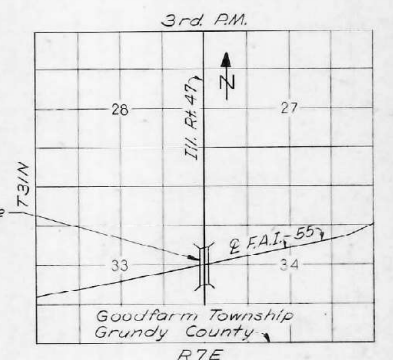
B.M. #30 - Elev. 628.90, R.R. Spike in Tower
 Hole, 38' L. Ill. 97, Sta. 78+00.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FA.I-55	32-3HB	GRUNDY	62	25	16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

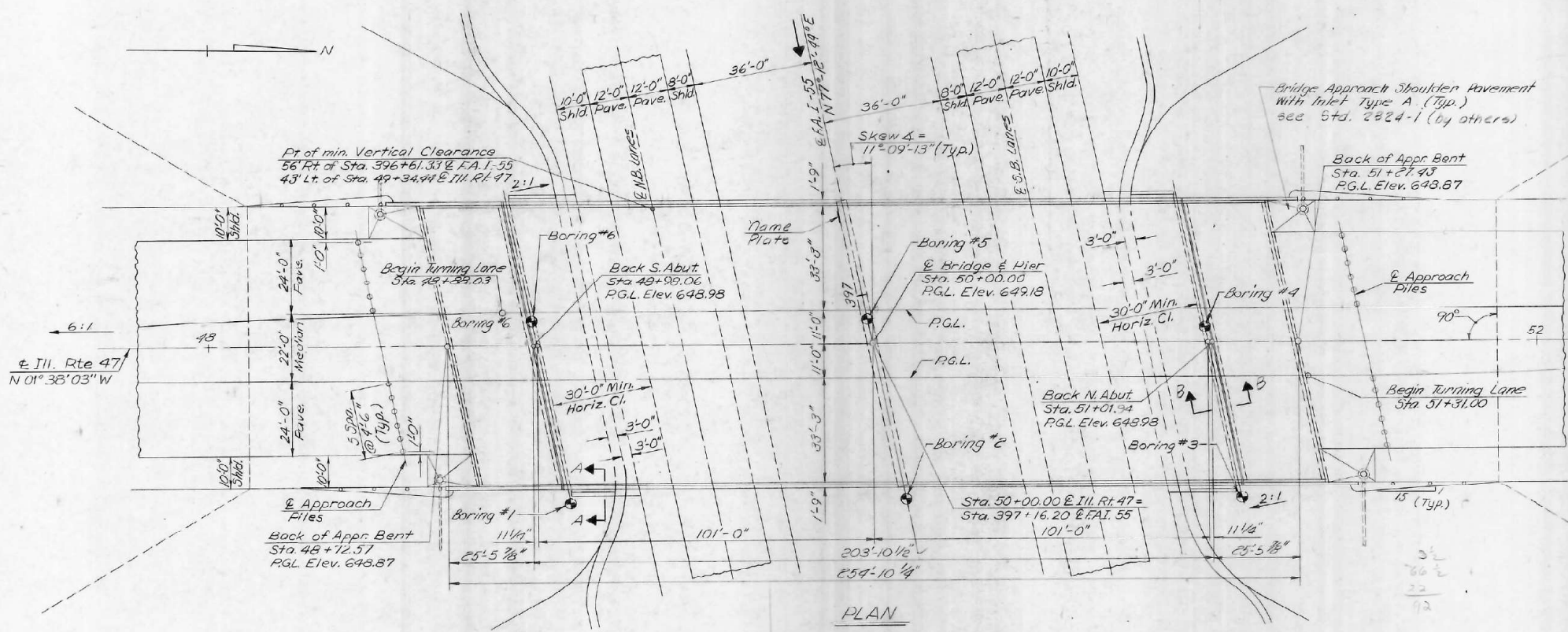


STATION 397+16.20
 BUILT 197 PY
 STATE OF ILLINOIS
 F.A.I. RT. 55 SEC. 32-3HB
 F.A. PROJ. I-55-5(55)
 LOADING HS20

NAME PLATE



Creosoted Approach Piles:
 Number Required - 24
 Required Length:
 South Abutment: 21 ft.
 North Abutment: 21 ft.
 See Special Provisions



Note:
 See Sheet No. 5 for detail of Median Transition.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structure Excavation	C.Y.		66	66
Class X Concrete	C.Y.	942.2	589.5	1,521.7
Structural Steel	L.S.			1
Stud Shear Connectors	Ea.	4,176		4,176
Aluminum Railing	L.F.	526		526
Reinforcement	Lbs.	199,287	78,391	277,678
Concrete Piles	L.F.		7,650	7,650
Test Piles (Concrete)	Ea.		3	3
Creosoted Piles (22.1 - 38)	L.F.		504	504
Name Plate	Ea.		1	1
Sand Backfill	C.Y.		1,077	1,077
Slope Wall (4")	S.Y.		583	583
Preformed Joint Sealer	L.F.	188		188
Protective Coat	S.Y.	752		752
Bit Conc. Surface Course Class I	Ton	164		164
Coal Tar Interlayer Protective Coat	S.Y.	2,019		2,019

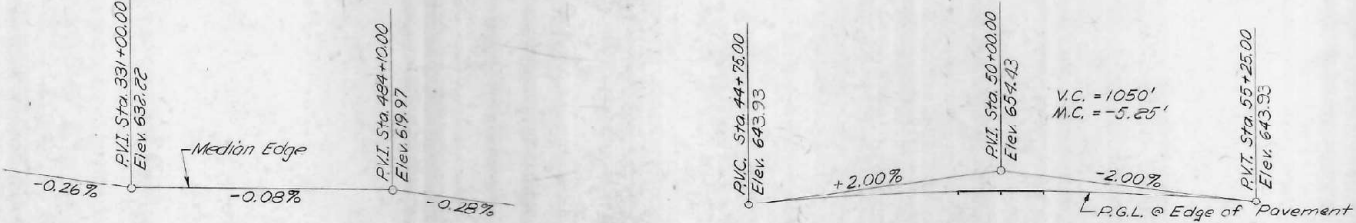
Calculated weight of structural steel = 622, 389

APPROVED
 FOR SUBMITTAL TO THE STATE
 ENGINEER OF TRANSPORTATION

GENERAL PLAN & ELEVATION
PROJECT I-55-5(55) 215
ILL.-47 OVER F.A.I-55
SECTION 32-3HB
GRUNDY COUNTY
STA. 397+16.20 f. F.A.I-55

DESIGNED R.H. CHHEDA	EXAMINED	10
CHECKED S.J. SHAH	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
DRAWN T.D. HRANEK	PASSED	ENGINEER OF DESIGN
CHECKED R.C. THOMPSON	APPROVED	CHIEF HIGHWAY ENGINEER

PROFILE FA. I-55



V.C. DATA ILL. RT. 47

PROJECT NO. #PROJECTING
 HRG PROJ. CONTACT: #HRG2046
 FILE NAME: 032025-66HS-035.ex161.dgn
 PLOT DRIVER: #PLOT.DRV#
 PEN TABLE: #PEN.TABLE#



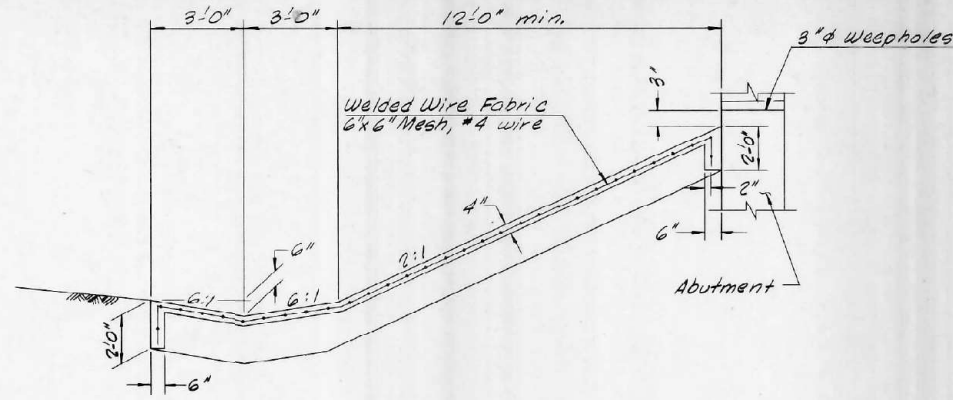
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PLOT SCALE =	CHECKED - BT & WAO	REVISED -
PLOT DATE = 10/5/2020	DRAWN - JA	REVISED -
	CHECKED - 10/7/20	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
 STRUCTURE NO. 032-0125
 SHEET NO. 1 OF 16 SHEETS

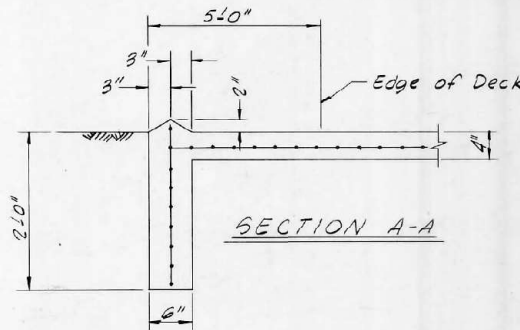
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	117
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

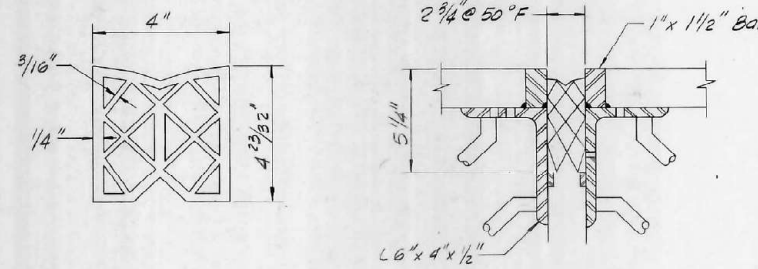


SECTION B-B

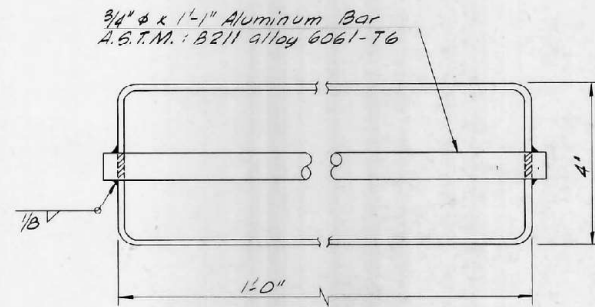
Note:
For location of Sections,
see General Plan, Sheet No. 1



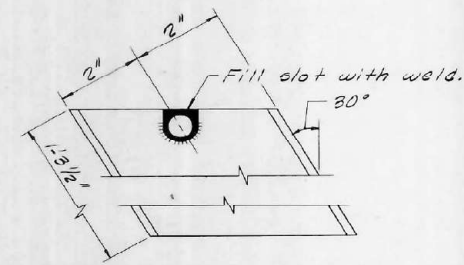
SECTION A-A



PREFORMED JOINT SEALER

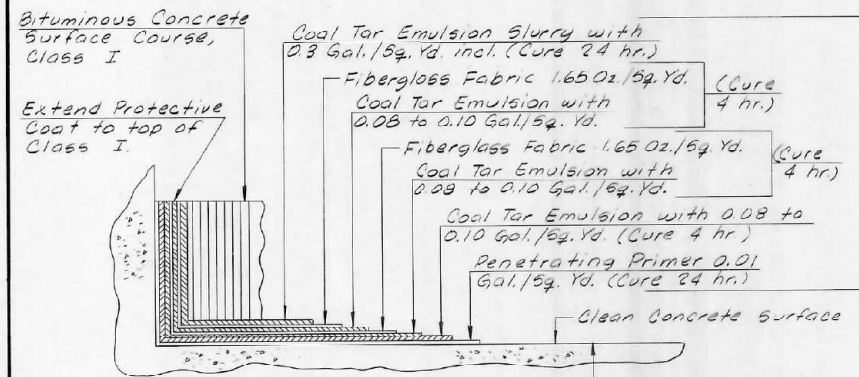


TOP VIEW



END VIEW

3/16" Aluminum Sheets welded A.S.T.M.: B209 alloy 6061-T6 or Aluminum Extrusions A.S.T.M.: B221 alloy 6061-T6.

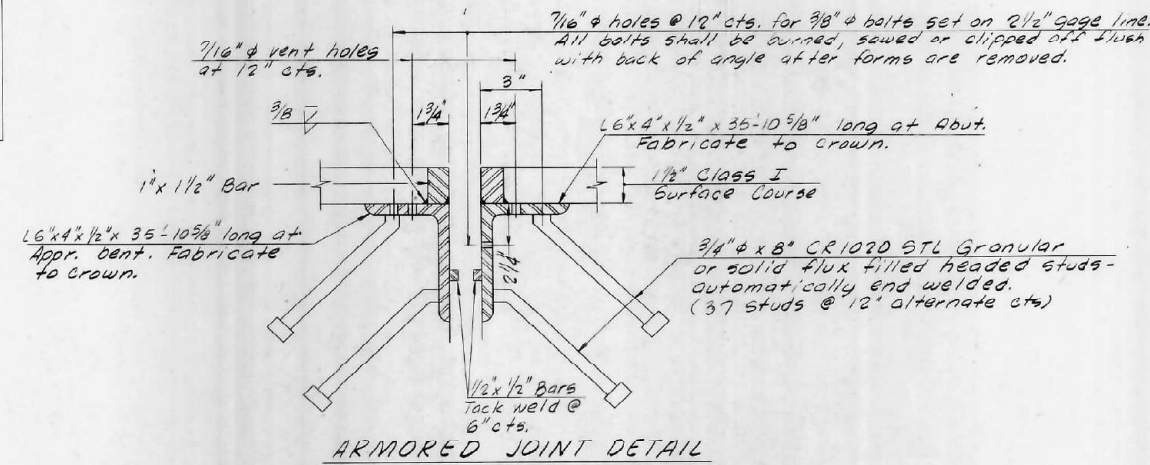


DECK SURFACING
with Cool Tar Interlayer Protective Coat

DESIGNED	J. J. REHAK	19
CHECKED	R. C. THOMPSON	EXAMINED
DRAWN	J. J. REHAK	PASSED
CHECKED	R. C. THOMPSON	APPROVED

To be paid for as
Cool Tar Interlayer
Protective Coat.

FLOOR DRAIN DETAILS
(Cost incidental to Class X Concrete)



ARMORED JOINT DETAIL

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
Fasteners shall be high strength bolts. Bolts 7/8" φ, open holes 5/16" φ, unless otherwise noted.
The basic lead Silico Chromate paint system shall be used for shop and field painting of structural steel.
Field welding of construction accessories will not be permitted to the bottom flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the Engineer.
Anchor bolts shall be set before casting diaphragms over supports.
Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 58# per 100 sq. ft.
The Contractor shall drive 3 concrete test piles in a permanent location, one each at the South Appr. Bent, the North Abut. and one at the pier as directed by the Engineer before ordering the remainder of piles.
Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 513.09(c) of the Standard Specifications.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.
All structural steel shall comply with the specification for structural steel A.S.T.M. Designation A-36.
Protective Coat shall not be applied to surfaces to which Cool Tar Interlayer Protective Coat is applied.

DESIGN STRESSES

$f_c = 1,200$ p.s.i. (Deck)
 $f_c = 1,400$ p.s.i. (Substructure, Curb and Parapet)
 $f_s = 20,000$ p.s.i. (Reinforcement)
 $f_s = 20,000$ p.s.i. (Structural Steel A-36)
 $n = 10$
 $v = 75$ p.s.i. (Footings)
Loading H5 20-44

MISCELLANEOUS

ILL.-47 SEC. 32-3HB
GRUNDY COUNTY
STA. 397+16.20 @ FA. I-55

FOR INFORMATION ONLY

PROJECT NO.: #PROJECTING
HRC PROJ. CONTACT: #HRC2946
FILE NAME: 032025-66H5_036_ax1st2.dgn
PLOT DRIVER: #PLOT.DRV#
PEN TABLE: #PEN.TABLE#

BLOOM COMPANIES, LLC
Infrastructure, Design and Signalty
150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
Phone: (312) 876-9500 Fax: (312) 876-9600

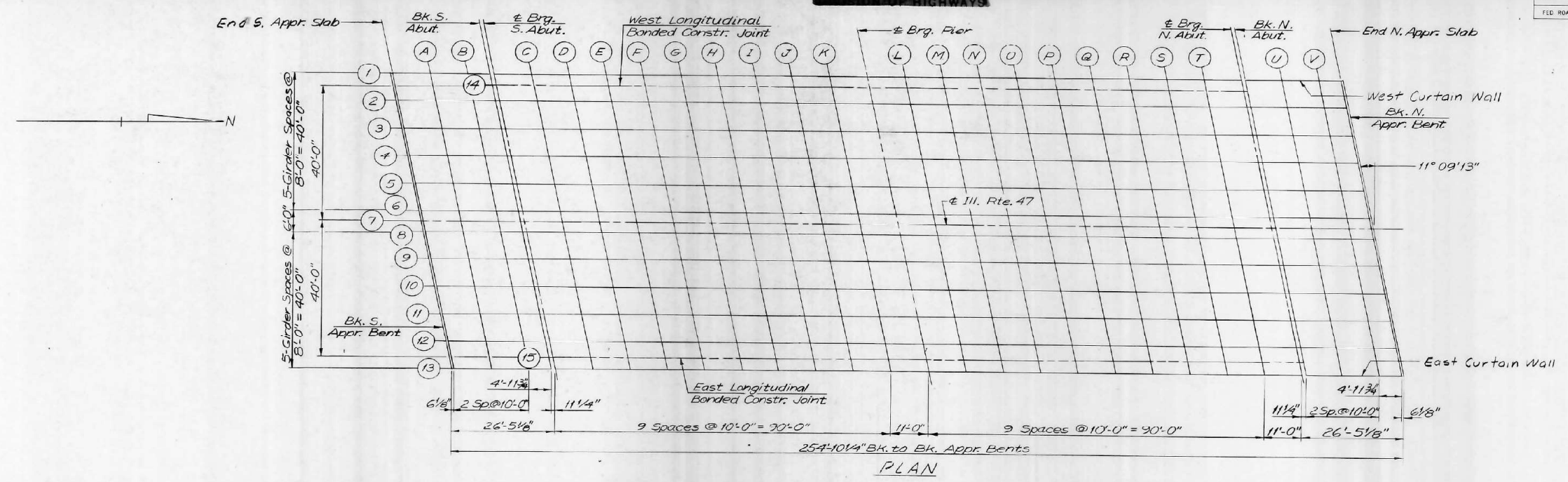
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	CHECKED - BT & WAO	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE = 10/5/2020	CHECKED - 10/7/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

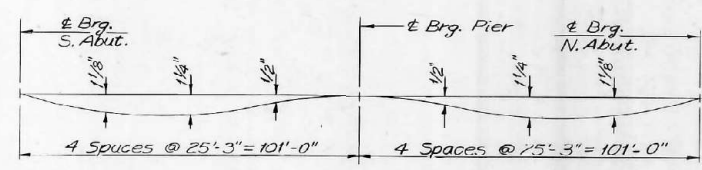
EXISTING BRIDGE PLANS
STRUCTURE NO. 032-0125

SHEET NO. 2 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	118
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				



PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete and superimposed dead load.)
 Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown in tables.

DESIGNED	P. H. CHHEDA
CHECKED	J. E. SWINK
DRAWN	J. E. SWINK
CHECKED	J. J. REHAK

EXAMINED	19
PASSED	
APPROVED	

LOCATION	BEAM	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
End S. Appr. Slab	1	4884.601	-43.000	648.330	648.330
	2	4886.179	-35.000	648.462	648.462
	3	4887.756	-27.000	648.595	648.595
	4	4889.333	-19.000	648.728	648.728
	5	4890.911	-11.000	648.860	648.860
	6	4892.488	-3.000	648.993	648.993
	7	4893.060	0.000	649.126	649.126
	8	4893.671	3.000	649.259	649.259
	9	4894.248	11.000	649.392	649.392
	10	4894.826	19.000	649.525	649.525
	11	4895.403	27.000	649.658	649.658
	12	4895.980	35.000	649.791	649.791
	13	4896.558	43.000	649.924	649.924
A	1	4874.601	-43.000	648.379	648.379
	2	4876.179	-35.000	648.511	648.511
	3	4877.756	-27.000	648.644	648.644
	4	4879.333	-19.000	648.776	648.776
	5	4880.911	-11.000	648.908	648.908
	6	4882.488	-3.000	649.040	649.040
	7	4883.060	0.000	649.173	649.173
	8	4883.671	3.000	649.305	649.305
	9	4884.248	11.000	649.438	649.438
	10	4884.826	19.000	649.570	649.570
	11	4885.403	27.000	649.703	649.703
	12	4885.980	35.000	649.835	649.835
	13	4886.558	43.000	649.968	649.968
B	1	4884.601	-43.000	648.423	648.423
	2	4886.179	-35.000	648.557	648.557
	3	4887.756	-27.000	648.690	648.690
	4	4889.333	-19.000	648.822	648.822
	5	4890.911	-11.000	648.954	648.954
	6	4892.488	-3.000	649.087	649.087
	7	4893.060	0.000	649.219	649.219
	8	4893.671	3.000	649.352	649.352
	9	4894.248	11.000	649.484	649.484
	10	4894.826	19.000	649.617	649.617
	11	4895.403	27.000	649.749	649.749
	12	4895.980	35.000	649.882	649.882
	13	4901.558	43.000	649.994	649.994
Bk. S. Abut.	1	4889.981	-43.000	648.446	648.446
	2	4891.159	-35.000	648.578	648.578
	3	4892.736	-27.000	648.709	648.709
	4	4894.313	-19.000	648.840	648.840
	5	4895.891	-11.000	648.971	648.971
	6	4897.468	-3.000	649.102	649.102
	7	4898.040	0.000	649.234	649.234
	8	4898.651	3.000	649.366	649.366
	9	4900.228	11.000	649.498	649.498
	10	4901.806	19.000	649.630	649.630
	11	4903.383	27.000	649.762	649.762
	12	4904.960	35.000	649.894	649.894
	13	4906.538	43.000	649.994	649.994

LOCATION	BEAM	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
Bk. N. Abut.	1	5093.461	-43.000	648.512	648.512
	2	5095.039	-35.000	648.631	648.631
	3	5096.616	-27.000	648.750	648.750
	4	5098.193	-19.000	648.869	648.869
	5	5099.771	-11.000	648.988	648.988
	6	5101.348	-3.000	649.107	649.107
	7	5102.926	0.000	649.226	649.226
	8	5104.503	3.000	649.345	649.345
	9	5106.080	11.000	649.464	649.464
	10	5107.657	19.000	649.583	649.583
	11	5109.234	27.000	649.702	649.702
	12	5110.811	35.000	649.821	649.821
	13	5112.388	43.000	649.940	649.940
U	1	5103.461	-43.000	648.475	648.475
	2	5105.039	-35.000	648.593	648.593
	3	5106.616	-27.000	648.712	648.712
	4	5108.193	-19.000	648.830	648.830
	5	5109.771	-11.000	648.948	648.948
	6	5111.348	-3.000	649.067	649.067
	7	5112.926	0.000	649.185	649.185
	8	5114.503	3.000	649.304	649.304
	9	5116.080	11.000	649.422	649.422
	10	5117.657	19.000	649.540	649.540
	11	5119.234	27.000	649.659	649.659
	12	5120.811	35.000	649.777	649.777
	13	5122.388	43.000	649.895	649.895
V	1	5113.461	-43.000	648.433	648.433
	2	5115.039	-35.000	648.551	648.551
	3	5116.616	-27.000	648.669	648.669
	4	5118.193	-19.000	648.787	648.787
	5	5119.771	-11.000	648.905	648.905
	6	5121.348	-3.000	649.022	649.022
	7	5122.926	0.000	649.140	649.140
	8	5124.503	3.000	649.258	649.258
	9	5126.080	11.000	649.376	649.376
	10	5127.657	19.000	649.494	649.494
	11	5129.234	27.000	649.612	649.612
	12	5130.811	35.000	649.730	649.730
	13	5132.388	43.000	649.848	649.848
End N. Appr. Slab	1	5110.951	-43.000	648.409	648.409
	2	5120.529	-35.000	648.527	648.527
	3	5122.106	-27.000	648.644	648.644
	4	5123.683	-19.000	648.762	648.762
	5	5125.261	-11.000	648.879	648.879
	6	5126.838	-3.000	648.996	648.996
	7	5128.415	0.000	649.113	649.113
	8	5129.992	3.000	649.230	649.230
	9	5131.569	11.000	649.347	649.347
	10	5133.146	19.000	649.464	649.464
	11	5134.723	27.000	649.581	649.581
	12	5136.300	35.000	649.698	649.698
	13	5137.877	43.000	649.815	649.815

TOP OF SURFACE COURSE ELEVATIONS
 ILL.-47 SEC. 32-3HB
 GRUNDY COUNTY
 STA. 397 + 16.20 @ F.A. I-55

FOR INFORMATION ONLY

PROJECT NO.: #PROJECTING
 HRC PROJ. CONTACT: #HRC204
 FILE NAME: 032025-66H5.03T.axis1.cogn
 PLOT DRIVER: #PLOT.DRV
 PEN TABLE: #PEN.TABLE



USER NAME = jandrews
 DESIGNED - JA
 CHECKED - BT & WAO
 DRAWN - JA
 CHECKED - 10/7/20

DESIGNED - JA
 CHECKED - BT & WAO
 DRAWN - JA
 CHECKED - 10/7/20

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
 STRUCTURE NO. 032-0125
 SHEET NO. 3 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	119
CONTRACT NO. 66H15				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS, WORKS & BUILDINGS

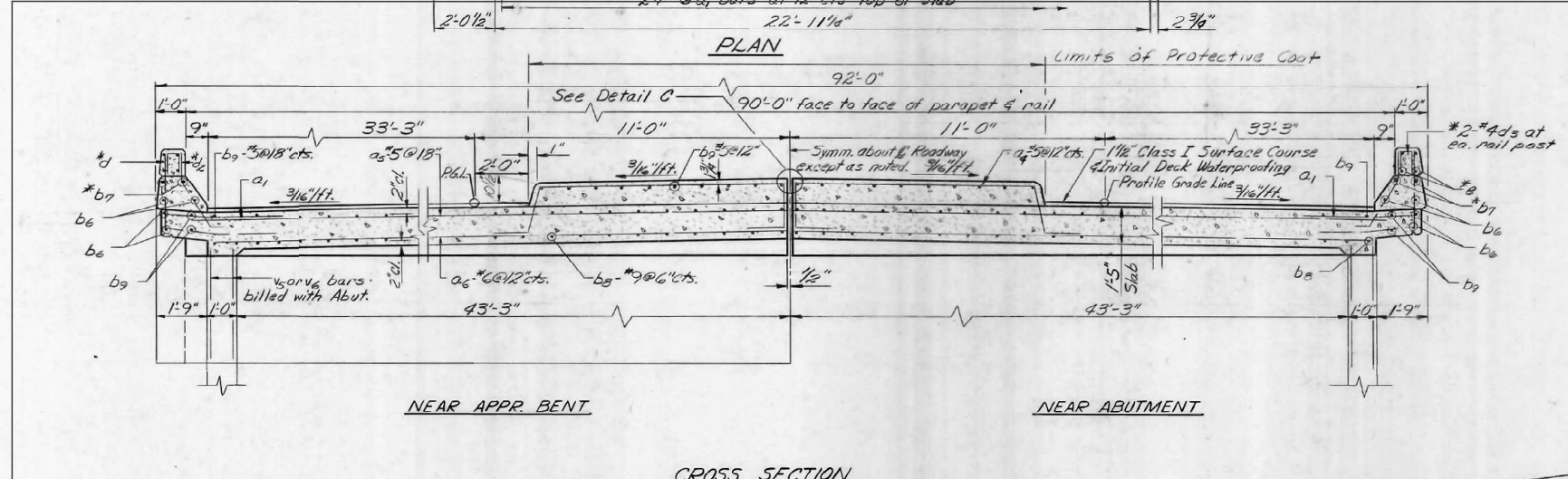
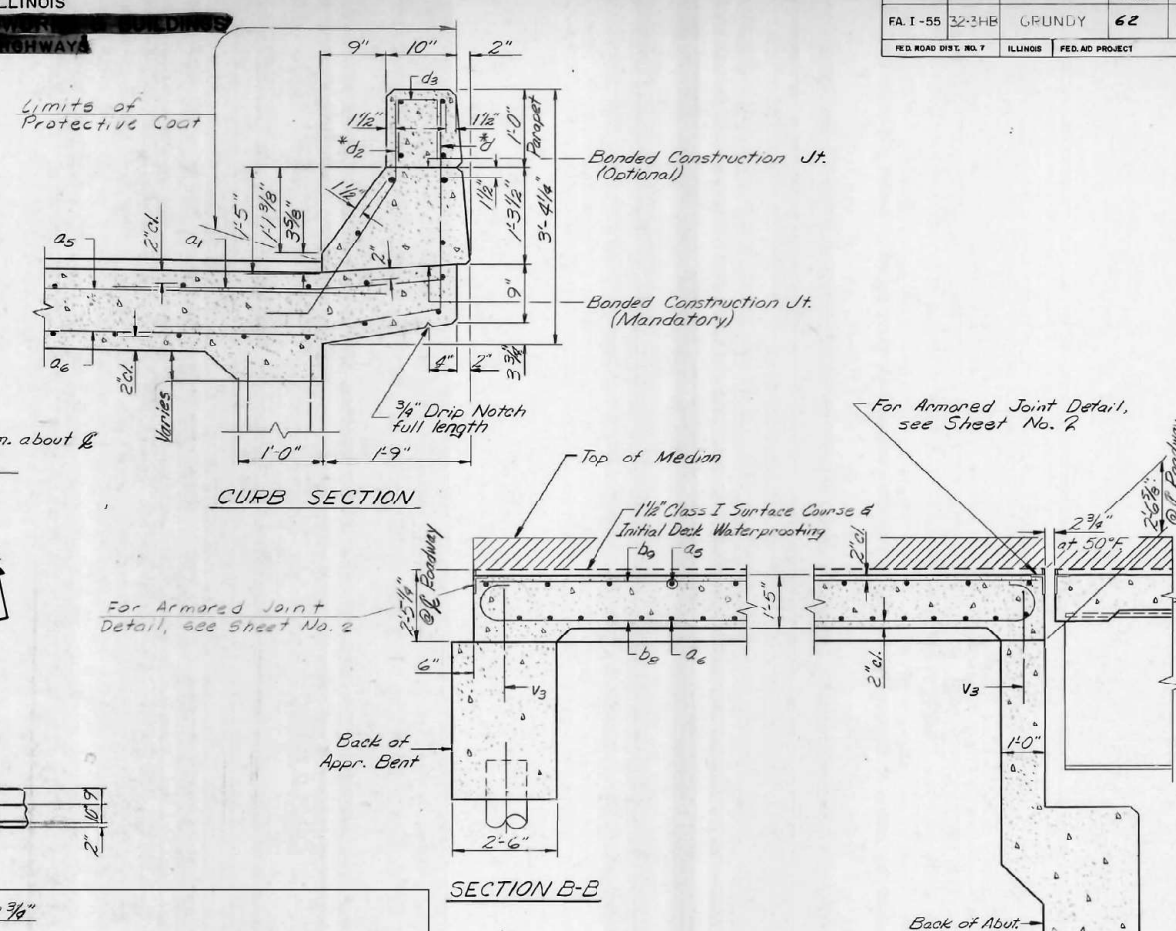
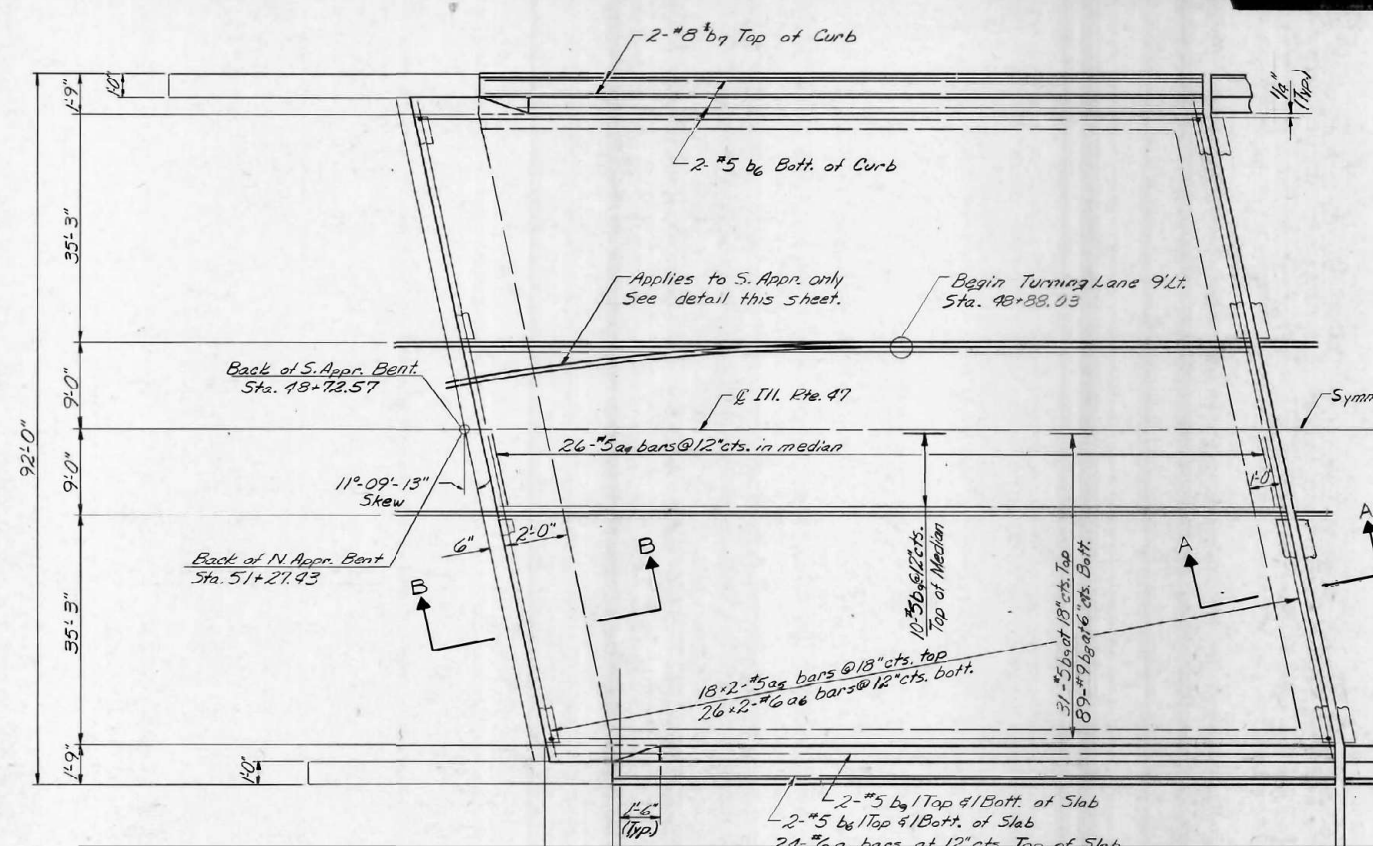
LOCATION	BEAM	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
C	1	4890.521	-43.000	648.450	648.450
	2	4892.099	-35.000	648.582	648.582
	3	4893.676	-27.000	648.713	648.713
	4	4895.253	-19.000	648.844	648.844
	5	4896.831	-11.000	648.975	648.975
	6	4898.408	-3.000	649.106	649.106
	7	4899.985	0.000	649.237	649.237
	8	4901.562	8.000	649.368	649.368
	9	4903.139	16.000	649.499	649.499
	10	4904.716	24.000	649.630	649.630
	11	4906.293	32.000	649.761	649.761
	12	4907.870	40.000	649.892	649.892
	13	4909.447	48.000	649.975	649.975
D	1	4910.521	-43.000	648.450	648.450
	2	4912.099	-35.000	648.582	648.582
	3	4913.676	-27.000	648.713	648.713
	4	4915.253	-19.000	648.844	648.844
	5	4916.831	-11.000	648.975	648.975
	6	4918.408	-3.000	649.106	649.106
	7	4919.985	0.000	649.237	649.237
	8	4921.562	8.000	649.368	649.368
	9	4923.139	16.000	649.499	649.499
	10	4924.716	24.000	649.630	649.630
	11	4926.293	32.000	649.761	649.761
	12	4927.870	40.000	649.892	649.892
	13	4929.447	48.000	649.975	649.975
E	1	4930.521	-43.000	648.450	648.450
	2	4932.099	-35.000	648.582	648.582
	3	4933.676	-27.000	648.713	648.713
	4	4935.253	-19.000	648.844	648.844
	5	4936.831	-11.000	648.975	648.975
	6	4938.408	-3.000	649.106	649.106
	7	4939.985	0.000	649.237	649.237
	8	4941.562	8.000	649.368	649.368
	9	4943.139	16.000	649.499	649.499
	10	4944.716	24.000	649.630	649.630
	11	4946.293	32.000	649.761	649.761
	12	4947.870	40.000	649.892	649.892
	13	4949.447	48.000	649.975	649.975
F	1	4950.521	-43.000	648.450	648.450
	2	4952.099	-35.000	648.582	648.582
	3	4953.676	-27.000	648.713	648.713
	4	4955.253	-19.000	648.844	648.844
	5	4956.831	-11.000	648.975	648.975
	6	4958.408	-3.000	649.106	649.106
	7	4959.985	0.000	649.237	649.237
	8	4961.562	8.000	649.368	649.368
	9	4963.139	16.000	649.499	649.499
	10	4964.716	24.000	649.630	649.630
	11	4966.293	32.000	649.761	649.761
	12	4967.870	40.000	649.892	649.892
	13	4969.447	48.000	649.975	649.975
G	1	4970.521	-43.000	648.450	648.450
	2	4972.099	-35.000	648.582	648.582
	3	4973.676	-27.000	648.713	648.713
	4	4975.253	-19.000	648.844	648.844
	5	4976.831	-11.000	648.975	648.975
	6	4978.408	-3.000	649.106	649.106
	7	4979.985	0.000	649.237	649.237
	8	4981.562	8.000	649.368	649.368
	9	4983.139	16.000	649.499	649.499
	10	4984.716	24.000	649.630	649.630
	11	4986.293	32.000	649.761	649.761
	12	4987.870	40.000	649.892	649.892
	13	4989.447	48.000	649.975	649.975
H	1	4990.521	-43.000	648.450	648.450
	2	4992.099	-35.000	648.582	648.582
	3	4993.676	-27.000	648.713	648.713
	4	4995.253	-19.000	648.844	648.844
	5	4996.831	-11.000	648.975	648.975
	6	4998.408	-3.000	649.106	649.106
	7	4999.985	0.000	649.237	649.237
	8	5001.562	8.000	649.368	649.368
	9	5003.139	16.000	649.499	649.499
	10	5004.716	24.000	649.630	649.630
	11	5006.293	32.000	649.761	649.761
	12	5007.870	40.000	649.892	649.892
	13	5009.447	48.000	649.975	649.975

DESIGNED P. H. CHHEDA
CHECKED J. E. SWINK
DRAWN J. E. SWINK
CHECKED R. C. THOMPSON

EXAMINED
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED
ENGINEER OF DESIGN
APPROVED
CHIEF HIGHWAY ENGINEER

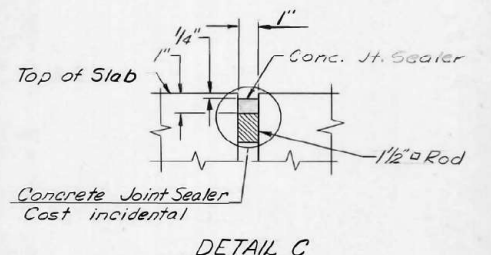
LOCATION	BEAM	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
I	1	4960.521	-43.000	648.669	648.704
	2	4962.099	-35.000	648.776	648.831
	3	4963.676	-27.000	648.903	648.959
	4	4965.253	-19.000	649.030	649.085
	5	4966.831	-11.000	649.157	649.212
	6	4968.408	-3.000	649.284	649.339
	7	4969.985	0.000	649.411	649.467
	8	4971.562	8.000	649.538	649.594
	9	4973.139	16.000	649.665	649.721
	10	4974.716	24.000	649.792	649.848
	11	4976.293	32.000	649.919	649.975
	12	4977.870	40.000	650.046	650.102
	13	4979.447	48.000	650.173	650.229
J	1	4980.521	-43.000	648.671	648.680
	2	4982.099	-35.000	648.776	648.806
	3	4983.676	-27.000	648.923	649.032
	4	4985.253	-19.000	649.049	649.257
	5	4986.831	-11.000	649.175	649.483
	6	4988.408	-3.000	649.301	649.708
	7	4989.985	0.000	649.427	649.934
	8	4991.562	8.000	649.553	650.159
	9	4993.139	16.000	649.679	650.385
	10	4994.716	24.000	649.805	650.610
	11	4996.293	32.000	649.931	650.836
	12	4997.870	40.000	650.057	651.061
	13	4999.447	48.000	650.183	651.287
K	1	4980.521	-43.000	648.671	648.680
	2	4982.099	-35.000	648.776	648.806
	3	4983.676	-27.000	648.923	649.032
	4	4985.253	-19.000	649.049	649.257
	5	4986.831	-11.000	649.175	649.483
	6	4988.408	-3.000	649.301	649.708
	7	4989.985	0.000	649.427	649.934
	8	4991.562	8.000	649.553	650.159
	9	4993.139	16.000	649.679	650.385
	10	4994.716	24.000	649.805	650.610
	11	4996.293	32.000	649.931	650.836
	12	4997.870	40.000	650.057	651.061
	13	4999.447	48.000	650.183	651.287
L	1	5001.521	-43.000	648.679	648.671
	2	5003.099	-35.000	648.803	648.803
	3	5004.676	-27.000	648.928	648.928
	4	5006.253	-19.000	649.053	649.053
	5	5007.831	-11.000	649.178	649.178
	6	5009.408	-3.000	649.303	649.303
	7	5010.985	0.000	649.428	649.428
	8	5012.562	8.000	649.553	649.553
	9	5014.139	16.000	649.678	649.678
	10	5015.716	24.000	649.803	649.803
	11	5017.293	32.000	649.928	649.928
	12	5018.870	40.000	650.053	650.053
	13	5020.447	48.000	650.178	650.178
M	1	5011.521	-43.000	648.672	648.685
	2	5013.099	-35.000	648.800	648.809
	3	5014.676	-27.000	648.924	648.933
	4	5016.253	-19.000	649.048	649.056
	5	5017.831	-11.000	649.172	649.180
	6	5019.408	-3.000	649.296	649.304
	7	5020.985	0.000	649.420	649.428
	8	5022.562	8.000	649.544	649.552
	9	5024.139	16.000	649.668	649.676
	10	5025.716	24.000	649.792	649.799
	11	5027.293	32.000	649.916	649.924
	12	5028.870	40.000	650.040	650.047
	13	5030.447	48.000	650.164	650.172
N	1	5021.521	-43.000	648.670	648.705
	2	5023.099	-35.000	648.793	648.828
	3	5024.676	-27.000	648.916	648.951
	4	5026.253	-19.000	649.040	649.075
	5	5027.831	-11.000	649.164	649.198
	6	5029.408	-3.000	649.288	649.321
	7	5030.985	0.000	649.412	649.445
	8	5032.562	8.000	649.536	649.569
	9	5034.139	16.000	649.660	649.693
	10	5035.716	24.000	649.784	649.826
	11	5037.293	32.000	649.908	649.959
	12	5038.870	40.000	650.032	650.083
	13	5040.447	48.000	650.156	650.207

LOCATION	BEAM	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTIONS
O	1	5031.521	-43.000	648.660	648.721
	2	5033.099	-35.000	648.783	648.844
	3	5034.676	-27.000	648.905	649.005
	4	5036.253	-19.000	649.028	649.188
	5	5037.831	-11.000	649.151	649.348
	6	5039.408	-3.000	649.274	649.504
	7	5040.985	0.000	649.397	649.660
	8	5042.562	8.000	649.520	649.816
	9	5044.139	16.000	649.643	649.972
	10	5045.716	24.000	649.766	650.128
	11	5047.293	32.000	649.889	650.284
	12	5048.870	40.000	649.975	650.440
	13	5050.447	48.000	650.100	650.596
P	1	5041.521	-43.000	648.668	648.727
	2	5043.099	-35.000	648.788	648.847
	3	5044.676	-27.000	648.908	649.007
	4	5046.253	-19.000	649.028	649.167
	5	5047.831	-11.000	649.148	649.327
	6	5049.408	-3.000	649.268	649.487
	7	5050.985	0.000	649.388	649.647
	8	5052.562	8.000	649.508	649.807
	9	5054.139	16.000	649.628	649.967
	10	5055.716	24.000	649.748	650.127
	11	5057.293	32.000	649.868	650.287
	12	5058.870	40.000	649.988	650.447
	13	5060.447	48.000	650.108	650.607
Q	1	5051.521	-43.000	648.628	648.716
	2	5053.099	-35.000	648.750	648.838
	3	5054.676	-27.000	648.871	648.959
	4	5056.253	-19.000	648.993	649.081
	5	5057.831	-11.000	649.114	649.202
	6	5059.408	-3.000	649.235	649.323
	7	5060.985	0.000	649.356	649.444
	8	5062.562	8.000	649.477	649.565
	9	5064.139	16.000	649.598	649.686
	10	5065.716	24.000	649.719	649.807
	11	5067.293	32.000	649.840	649.928
	12	5068.870	40.000	649.961	650.049
	13	5070.447	48.000	650.082	650.170
R</					



TWO APPR. SLABS
BILL OF MATERIAL

Bar No.	Size	Length	Shape
a1	#6	4'-0"	
a4	#5	15'-0"	
a5	#5	23'-2"	
a6	#6	22'-11"	
b6	#5	22'-7"	
b2	#9	27'-1"	
b9	#5	24'-7"	
Reinforcement Bars			Lbs. 50,260
Class X Concrete			Cu. Yds. 296.0

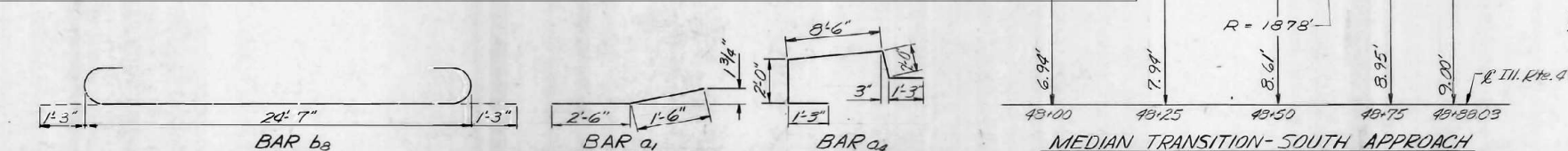


DESIGNED P. H. CHHEDA
 CHECKED J. E. SWINK
 DRAWN F. W. SCALES
 CHECKED J. J. REHAK

EXAMINED
 ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES

PASSED

APPROVED
 ENGINEER OF DESIGN
 CHIEF HIGHWAY ENGINEER



NORTH & SOUTH APPROACH SPANS
 ILL.-47 SEC. 32-3HB
 GRUNDY COUNTY
 STA. 397+16.20 @ F.A. I-55

FOR INFORMATION ONLY

PROJECT NO.: #PROJECTING
 HRG PROJ. CONTACT: #HRG2946
 FILE NAME: 032025-66H5-039_ax16r15.dgn
 PLOT DRIVER: #PLOT.DRV#
 PEN TABLE: #PEN.TABLE#

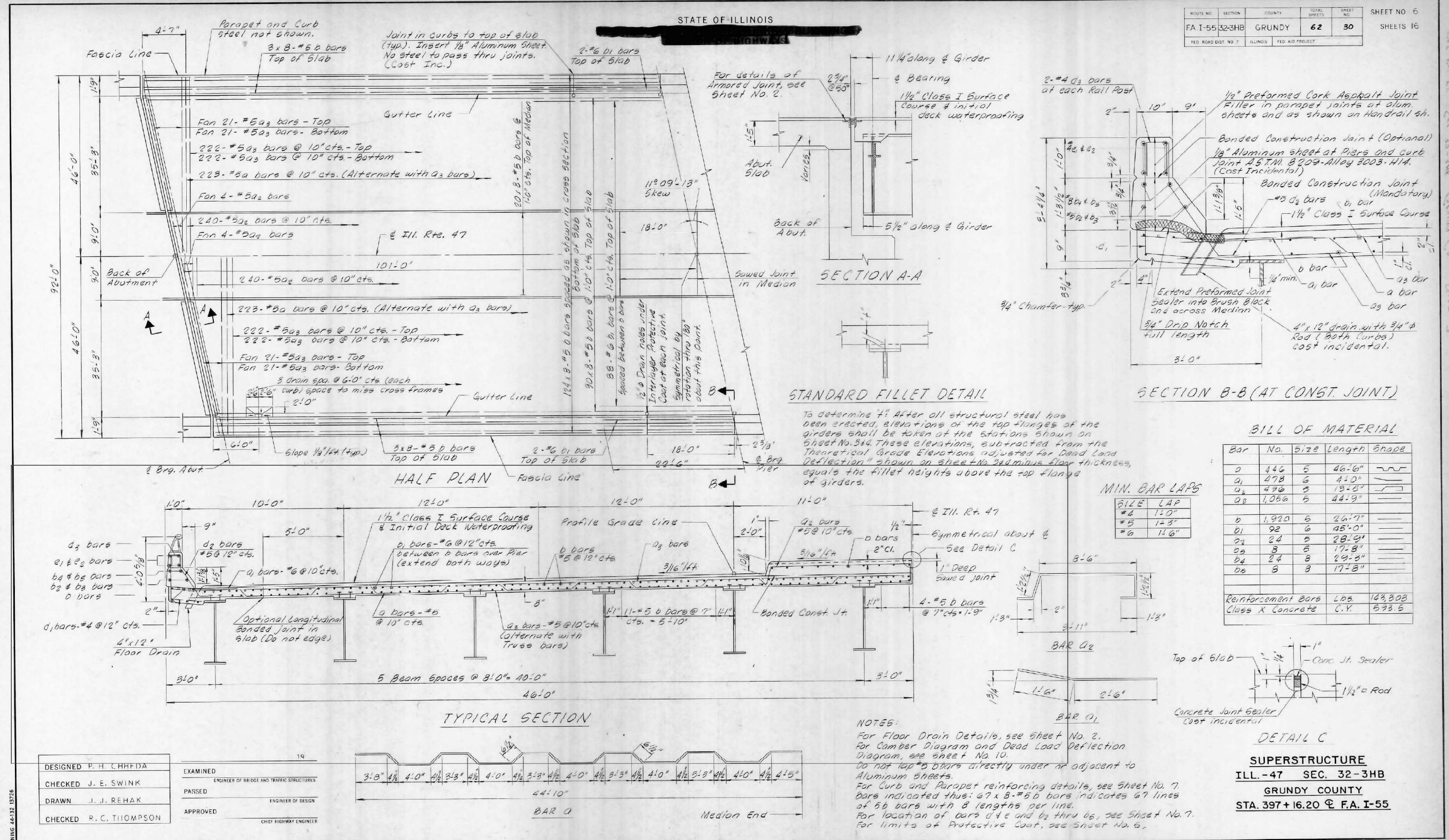


USER NAME = jandrews	DESIGNED - JA	REVISED -
PLOT SCALE =	CHECKED - BT & WAO	REVISED -
PLOT DATE = 10/5/2020	DRAWN - JA	REVISED -
	CHECKED - 10/7/20	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

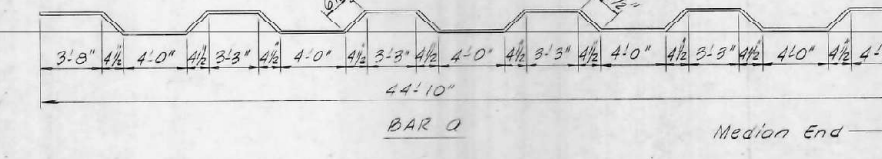
EXISTING BRIDGE PLANS
 STRUCTURE NO. 032-0125
 SHEET NO. 5 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	121
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

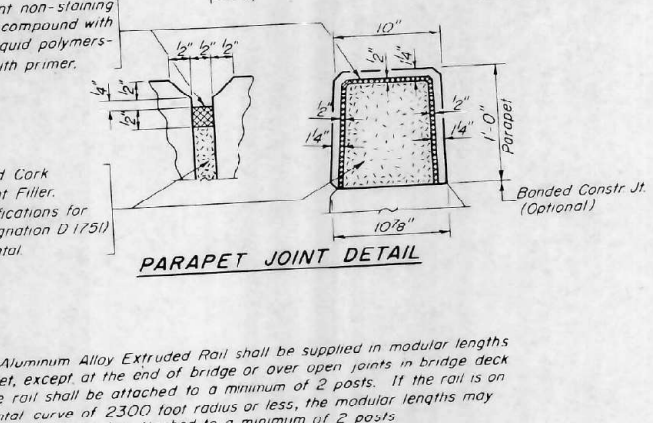
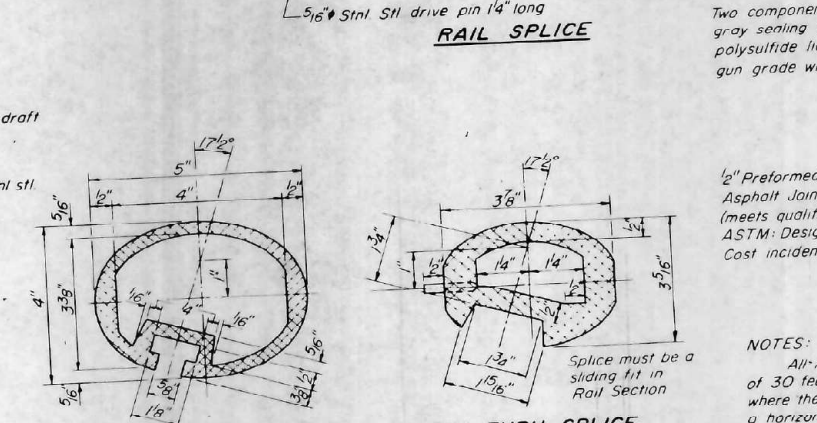
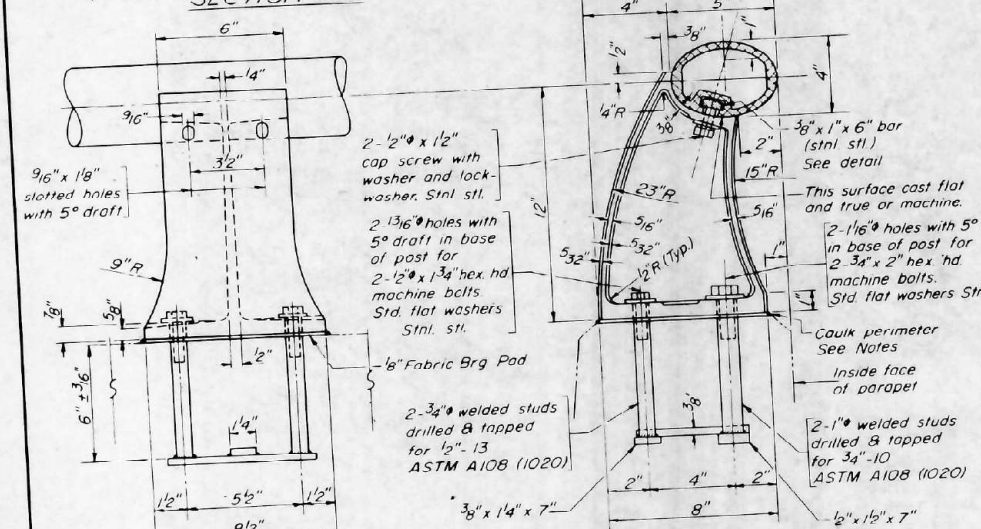
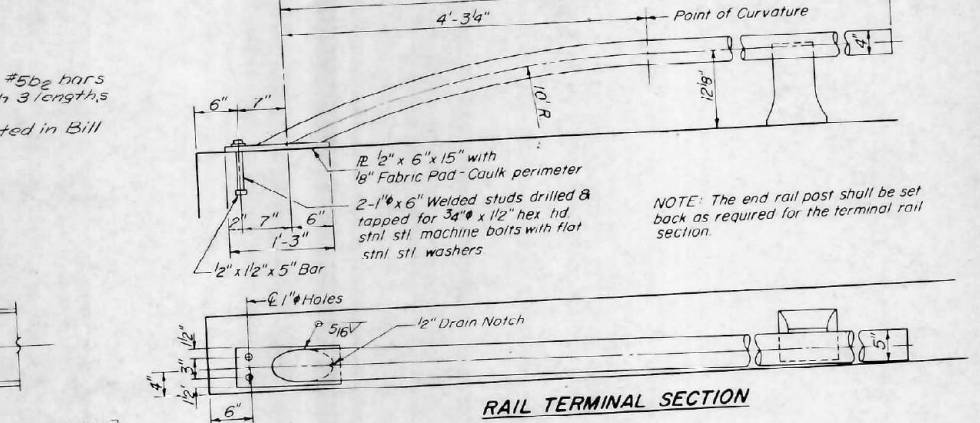
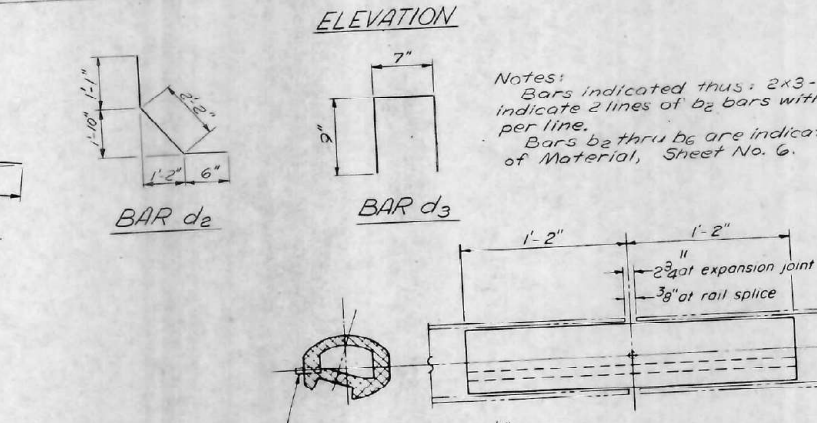
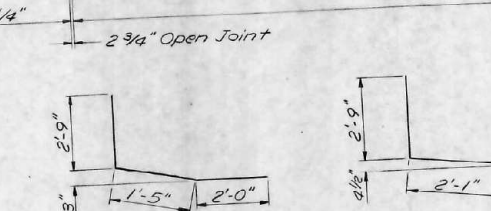
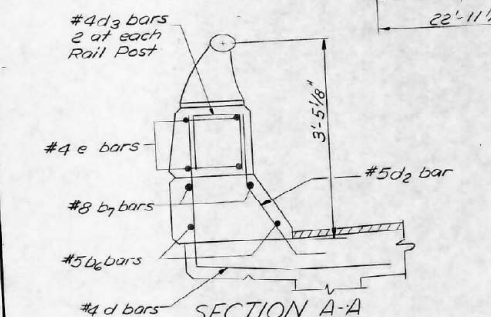
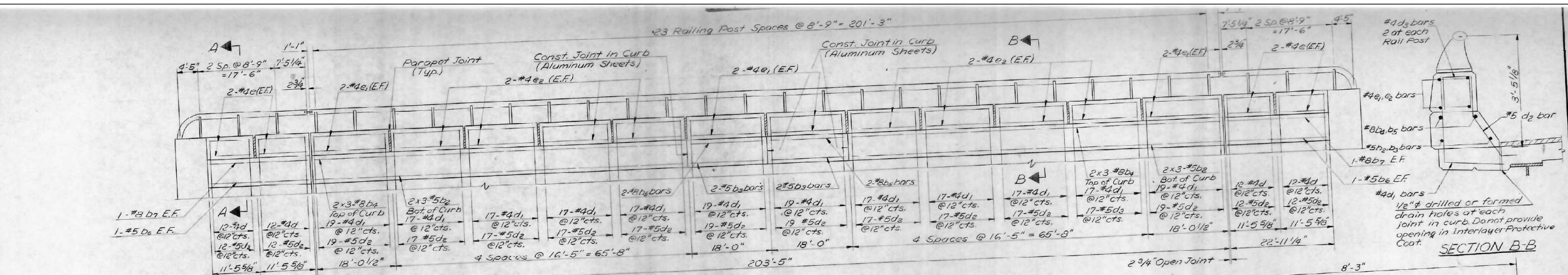


FOR INFORMATION ONLY

DESIGNED	P. H. CHHFIYA	EXAMINED	
CHECKED	J. E. SWINK	PASSED	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	J. J. REHAK	APPROVED	ENGINEER OF DESIGN
CHECKED	R. C. THOMPSON		CHIEF HIGHWAY ENGINEER



PROJECT NO.: #PROJECTING
 HRC PROJ. CONTACT: #HRC24K
 FILE NAME: 032025-66H15_040_ex15r16.dgn
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 PEN TABLE: #PEN.TABLE#

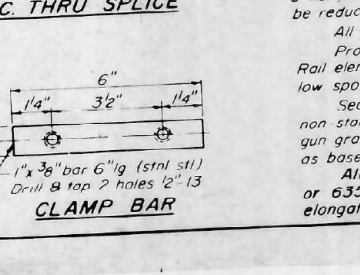


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b ₂	8	#8	22'-7"	
d	96	#4	6'-2"	L
d ₁	424	#4	4'-10"	L
d ₂	520	#5	3'-9"	L
d ₃	128	#4	8'-1"	U
c	32	#4	11'-1"	
e ₁	32	#4	17'-9"	
e ₂	64	#4	16'-1"	
Reinforcement Bars	Lbs		5,761	
Class X Concrete	Cu Yds		63.7	
Aluminum Railing	Lin Ft		526	

RAIL POST DETAILS

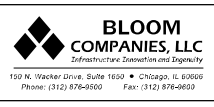
DESIGNED T.D. HRANEK	EXAMINED	19
CHECKED J.J. REHAK	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
DRAWN T.D. HRANEK	PASSED	ENGINEER OF DESIGN
CHECKED J.J. REHAK	APPROVED	CHIEF HIGHWAY ENGINEER



NOTES:
 All Aluminum Alloy Extruded Rail shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.
 All joints in rail shall be spliced per detail.
 Provide 1-1/8" and 2-1/16" Aluminum Shimms for 25% of the Posts.
 Rail element shall be parallel to Grade - high spots shall be ground and low spots shimmed.
 Seal perimeter of base of post to parapet with two component non staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.
 Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.

ALUMINUM RAILING
 ILL.-47 SEC. 32-3HB
 GRUNDY COUNTY
 STA. 397+16.20 @ FA. I-55

PROJECT NO.: #PROJECTING
 HRG PROJ. CONTACT: #HRG204K
 FILE NAME: 032025-66HNS_OIL.rvt
 PLOT DRIVER: #PLOT.DRV
 PEN TABLE: #PEN.TABLE



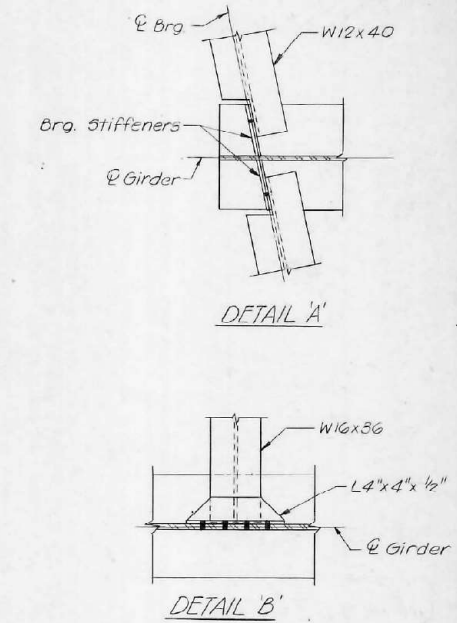
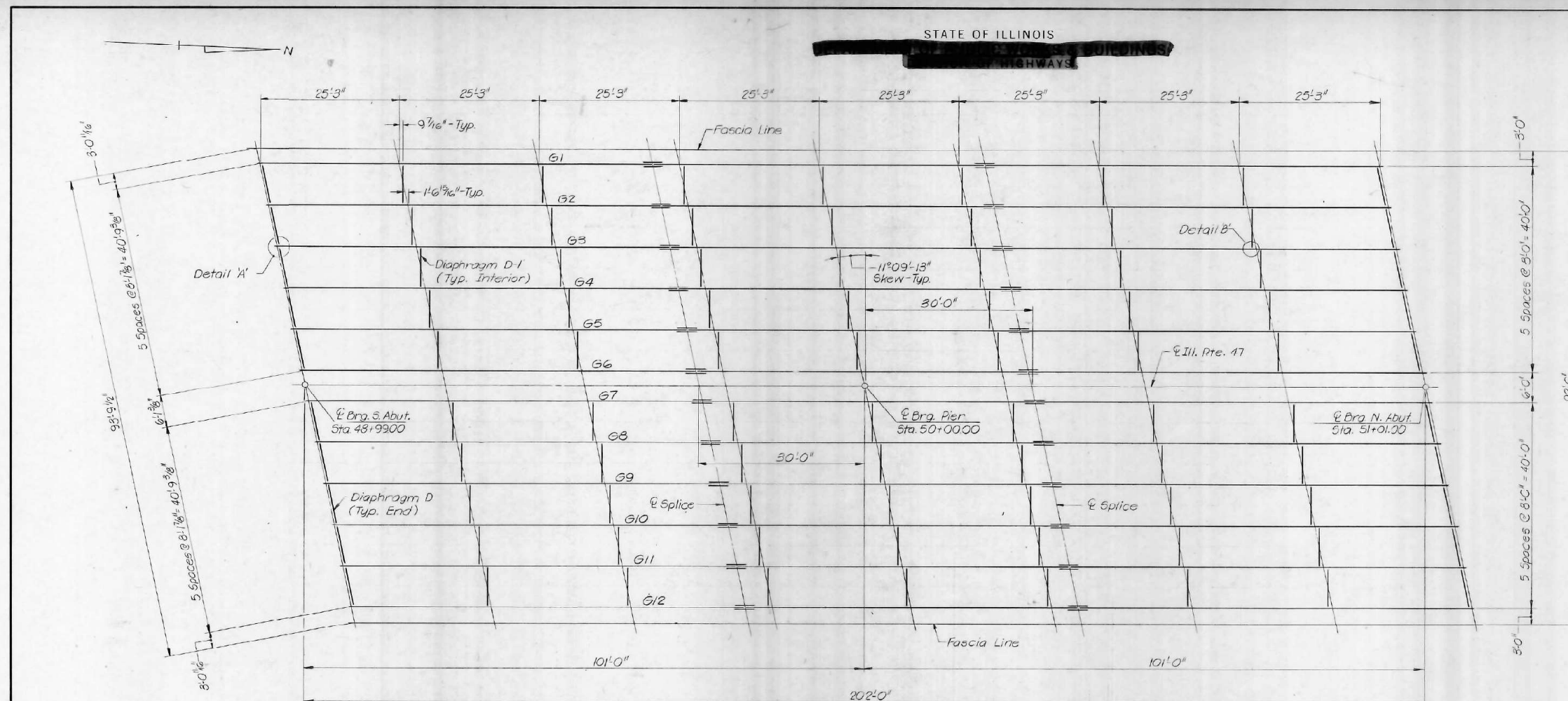
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PLOT SCALE =	CHECKED - BT & WAO	REVISED -
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	CHECKED - 10/7/20	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

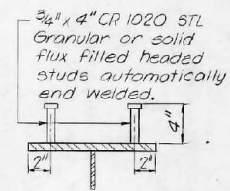
EXISTING BRIDGE PLANS
 STRUCTURE NO. 032-0125
 SHEET NO. 7 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	123
				CONTRACT NO. 66H15
ILLINOIS FED. AID PROJECT				

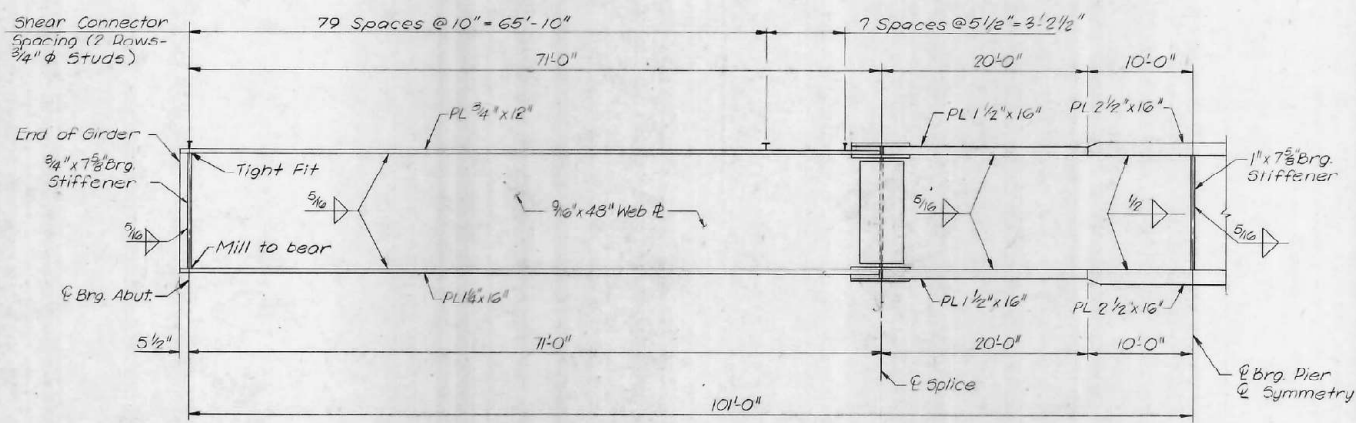
FOR INFORMATION ONLY



FRAMING PLAN



SHEAR CONNECTORS (343 Req'd. each Girder)



HALF GIRDER ELEVATION

Note: For diaphragms and additional details, see Sheet No. 9.

GIRDER & FRAMING DETAILS
ILL. - 47 SEC. 32-3 HB
GRUNDY COUNTY
STA. 397+16.20 @ F.A. I-55

DESIGNED	P. H. CHHEDA	19
CHECKED	J. E. SWINK	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
DRAWN	R. P. JAHIELKA	ENGINEER OF DESIGN
CHECKED	J. J. REHAK	CHIEF HIGHWAY ENGINEER

HRC PROJECT NO.: #PROJECTING05
 HRC PROJ. CONTACT: #HRC2046
 FILE NAME: 032025-66H5_042_ax1s18.dgn
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 PEN TABLE: #PEN.TABLE#



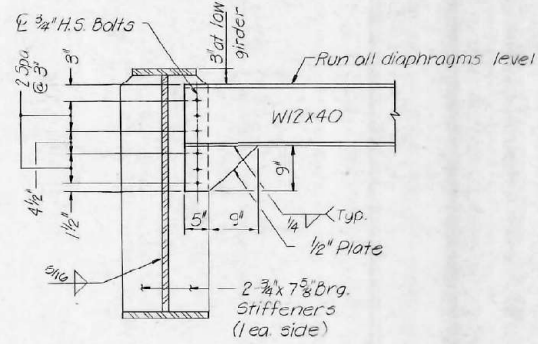
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		CHECKED -	BT & WAO	REVISED -	
PLOT SCALE =		DRAWN -	JA	REVISED -	
PLOT DATE =	10/5/2020	CHECKED -	10/7/20	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

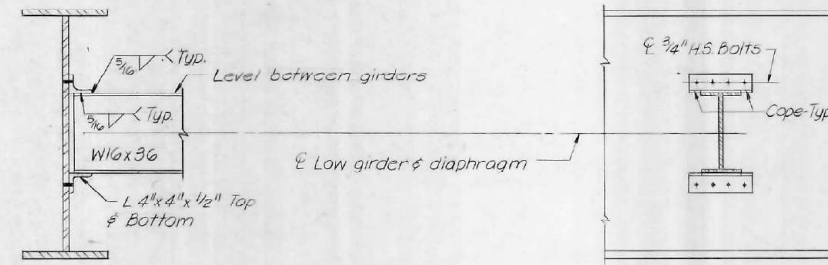
EXISTING BRIDGE PLANS
STRUCTURE NO. 032-0125
SHEET NO. 8 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	124
			CONTRACT NO. 66H15	
ILLINOIS FED. AID PROJECT				

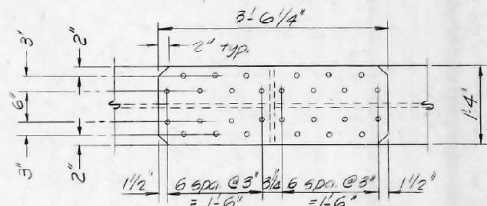
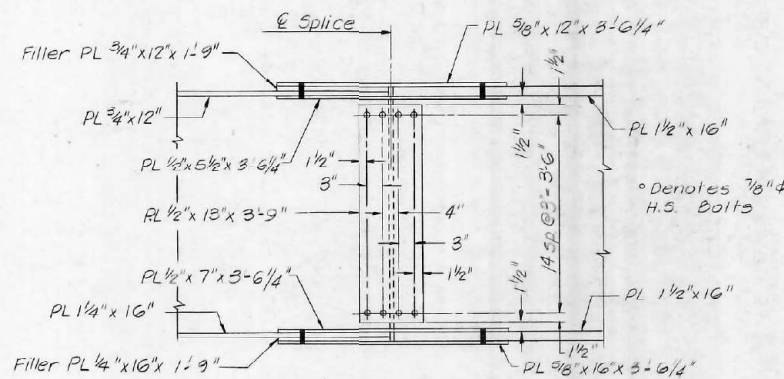
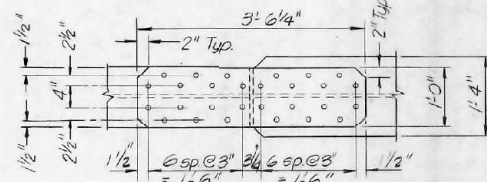
FOR INFORMATION ONLY



DIAPHRAGM 'D'
(20 Required)



DIAPHRAGM 'D-1'
(70 Required)



SPLICE DETAIL
(24 Required)

INTERIOR GIRDER MOMENT TABLE

	04 Sp.1	Pier
I_s (in ⁴)	71330	56250
I_c (in ⁴)	63598	
S_s (in ³)	1046	2121
S_c (in ³)	1541	
Q (Kft)	1.054	1.228
M_R (K)	655.9	1718.8
F_{cR} (ksi)	7.52	9.72
S_{Rc} (Kft)	.503	.503
M_{SR} (K)	359.8	639.7
M_c (K)	38295	846.3
M_{imp} (K)	225.15	187.0
I_{total} (K)	14679	1673.0
f_s (Imp. (ksi))	11.75	9.47
f_s Total (ksi)	19.25	19.19
VR (K)	60.2	

I_s and S_s are the moment of inertia and section modulus of the steel section.
 I_c and S_c are the moment of inertia and section modulus of the composite section used in computing f_s .
 VR is the maximum E + impact shear range in span.

TOP OF WEB ELEVATIONS*

Girder	1	2	3	4	5	6	7	8	9	10	11	12
W Brg S Abut	647.55	647.69	647.82	647.95	648.08	648.21	648.22	648.10	647.98	647.86	647.72	647.62
W Splice	647.67	647.80	647.93	648.05	648.18	648.31	648.31	648.18	648.06	647.94	647.82	647.69
W Pier	647.64	647.76	647.89	648.01	648.14	648.26	648.26	648.14	648.01	647.89	647.76	647.64
W Splice	647.69	647.82	647.94	648.06	648.18	648.31	648.31	648.18	648.06	647.94	647.82	647.67
W Brg N Abut	647.62	647.74	647.86	647.98	648.10	648.22	648.21	648.08	647.95	647.82	647.69	647.55

* For fabrication only.

INTERIOR GIRDER REACTION TABLE

	S. Abut	Pier	N. Abut.
R_{total} (K)	57.3	203.2	57.3
$R_{\%}$ (K)	43.6	80.6	43.6
Imp (K)	12.5	17.9	12.5
R_{total} (K)	118.4	306.7	118.4

DESIGNED P. H. CHHEDA	EXAMINED	19
CHECKED J. E. SWINK	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
DRAWN R. P. JAHNELKA	PASSED	
CHECKED J. J. REHAK	APPROVED	
	ENGINEER OF DESIGN	
	CHIEF HIGHWAY ENGINEER	

STEEL DETAILS
 ILL. -47 SEC. 32-3HB
 GRUNDY COUNTY
 STA. 397+16.20 @ F.A. I-55

FOR INFORMATION ONLY

PROJECT NO.: #PROJECTING
 HRC PROJ. CONTACT: #HRC2046
 FILE NAME: 032025-66HIS_043_axis18.dgn
 PLOT DRIVER: #PLOT.DRV#
 PEN TABLE: #PEN.TABLE#

BLOOM COMPANIES, LLC
 Infrastructure, Construction and Integrity
 150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
 Phone: (312) 876-9500 Fax: (312) 876-9600

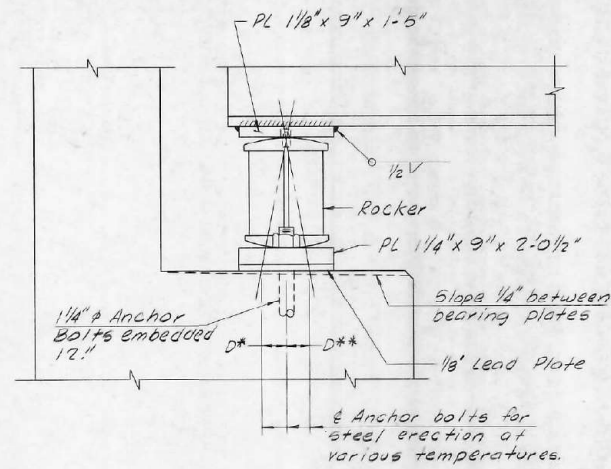
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	CHECKED - BT & WAO	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE = 10/5/2020	CHECKED - 10/7/20	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

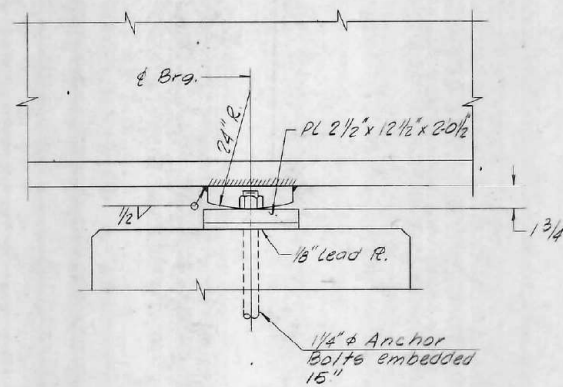
EXISTING BRIDGE PLANS
 STRUCTURE NO. 032-0125

SHEET NO. 9 OF 16 SHEETS

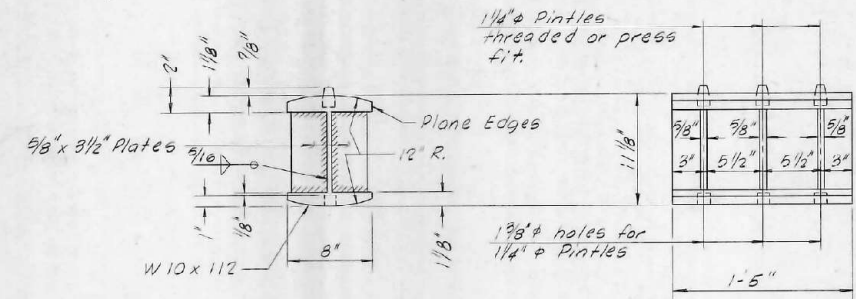
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	125
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				



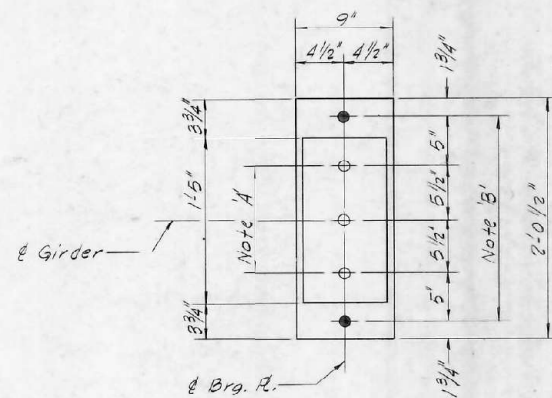
ELEVATION



ELEVATION

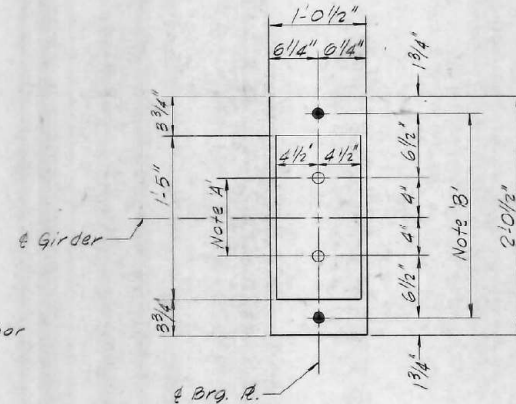


ROCKER



PLAN AT ABUTMENT (24 Required)

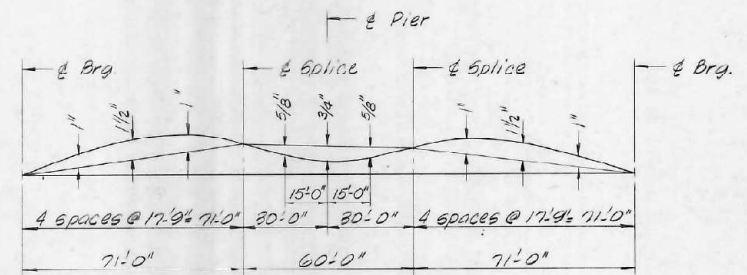
Note 'A':
1 3/8\"/>



PLAN AT PIER (12 Required)

Note 'B':
1 3/8\"/>

BEARING ASSEMBLY DETAILS

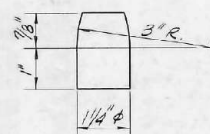


CAMBER DIAGRAM

Includes allowance for vertical curve

NOTES ON SETTING OF ANCHOR BOLTS AT EXPANSION BEARINGS

- D* (Side of brg. away from fixed brg.)
D* = 1/8" per each 100' of expansion for every 15° fall below the normal temp. of 50° F.
- D** (Side of brg. toward fixed brg.)
D** = 1/8" per each 100' of expansion for every 15° rise above the normal temp. of 50° F.
- After girders have been erected and dimensions D* or D** determined, holes shall be drilled and anchor bolts shall be grouted in place. All fixed anchor bolts may be built into the masonry.



PINTLE

DESIGNED	P. H. CHHEDA	EXAMINED	
CHECKED	J. E. SWINK	PASSED	
DRAWN	J. J. REHAK	APPROVED	
CHECKED	R. C. THOMPSON		

BEARING DETAILS
ILL.-47 SEC. 32-3HB
GRUNDY COUNTY
STA. 397+16.20 @ FA. I-55

FOR INFORMATION ONLY

PROJECT NO.: #PROJECTING
HRC PROJ. CONTACT: #HRC2046
FILE NAME: 032025-66H15_044_ax1610.dgn
PLOT DRIVER: #PLOT.DRV#
PEN TABLE: #PEN.TABLE#

BLOOM COMPANIES, LLC
Infrastructure, Construction and Integrity
150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
Phone: (312) 876-9500 Fax: (312) 876-9600

USER NAME = jandrews	DESIGNED - JA	REVISED -
	CHECKED - BT & WAO	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE = 10/5/2020	CHECKED - 10/7/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 032-0125

SHEET NO. 10 OF 16 SHEETS

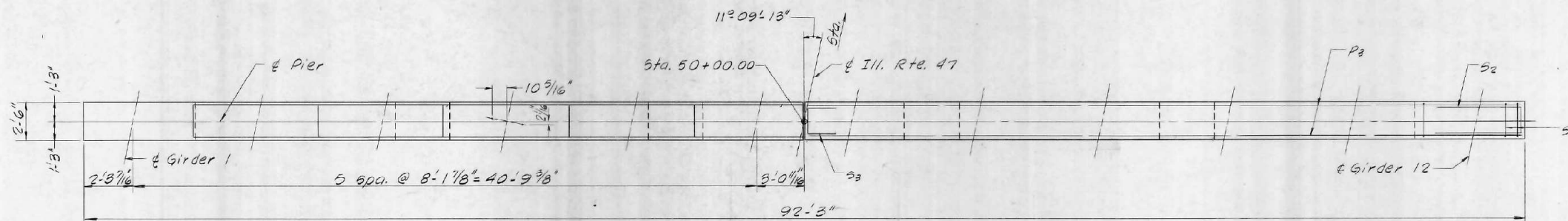
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	126
			CONTRACT NO. 66H15	
ILLINOIS FED. AID PROJECT				

NOTES:

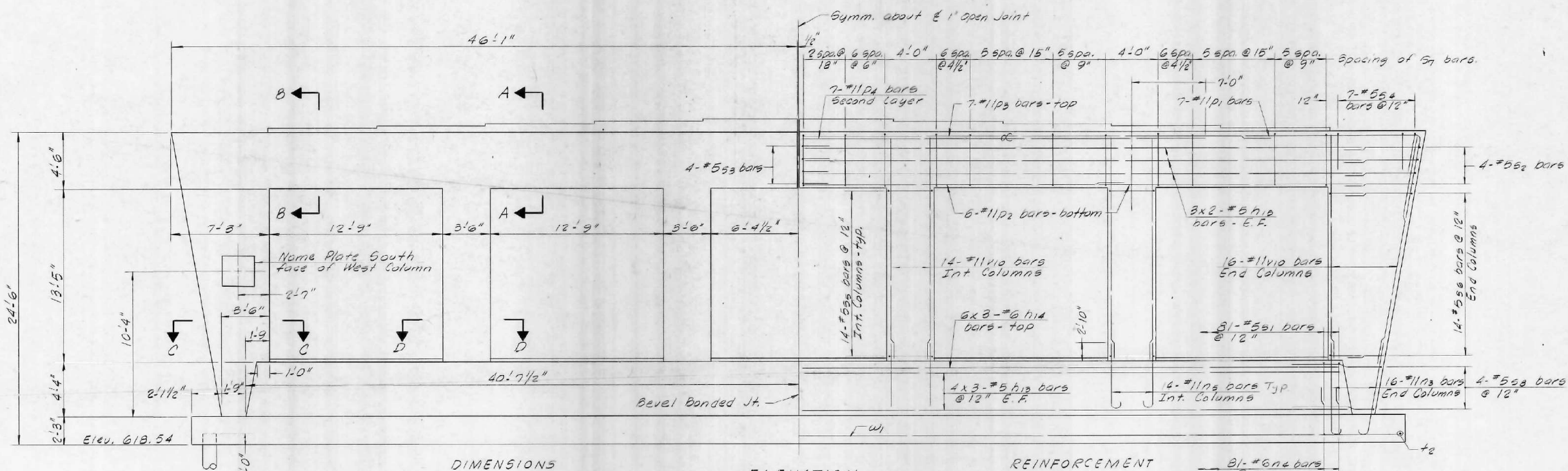
Space reinforcement in cap to miss anchor bolts.
 All edges shall have standard 3/4" chamfers
 except as noted.
 Pour steps monolithically with cap.

STATE OF ILLINOIS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13
FA.I-55	323HB	GRUNDY	62	37	SHEETS 16
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			



TOP PLAN

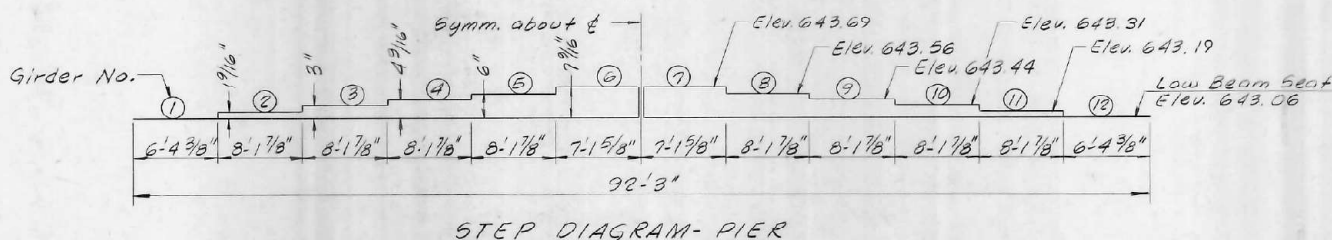


DIMENSIONS

ELEVATION

REINFORCEMENT

Note: α denotes bundled bars.



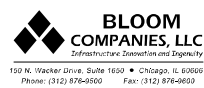
STEP DIAGRAM-PIER

DESIGNED P. H. CHHEDA	EXAMINED	19
CHECKED J. E. SWINK	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
DRAWN J. J. REHAK	PASSED	
CHECKED R. P. JAHNELKA	ENGINEER OF DESIGN	
	APPROVED	
	CHIEF HIGHWAY ENGINEER	

PIER
 ILL.-47 SEC. 32-3HB
 GRUNDY COUNTY
 STA. 397+16.20 & F.A.I-55

FOR INFORMATION ONLY

PROJECT NO.: #PROJECTING
 HRC PROJ. CONTACT: #HRC2046
 FILE NAME: 032025-66H5_047_ax1s13.dwg
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 PEN TABLE: #PEN.TABLE



USER NAME = jandrews	DESIGNED - JA	REVISED -
	CHECKED - BT & WAO	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE = 10/5/2020	CHECKED - 10/7/20	REVISED -

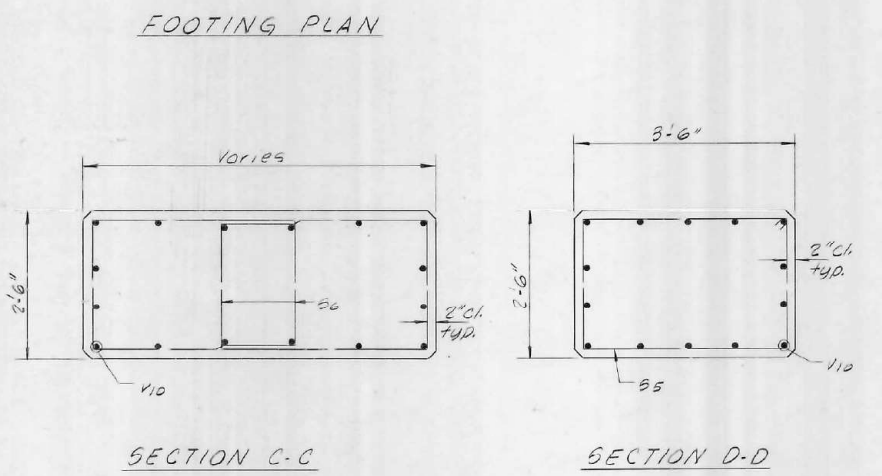
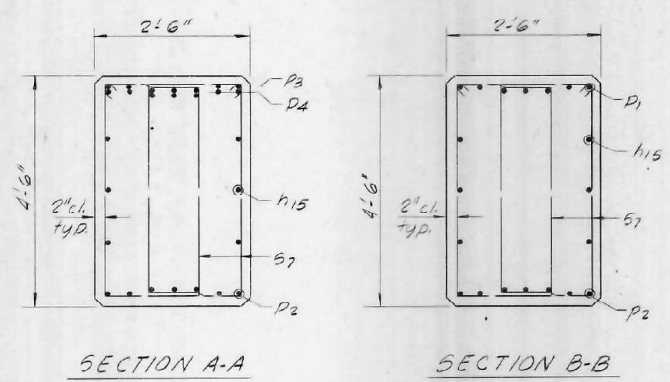
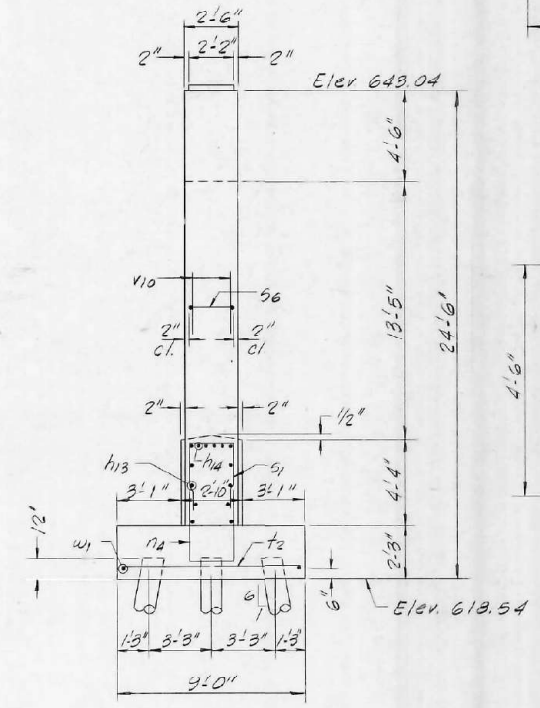
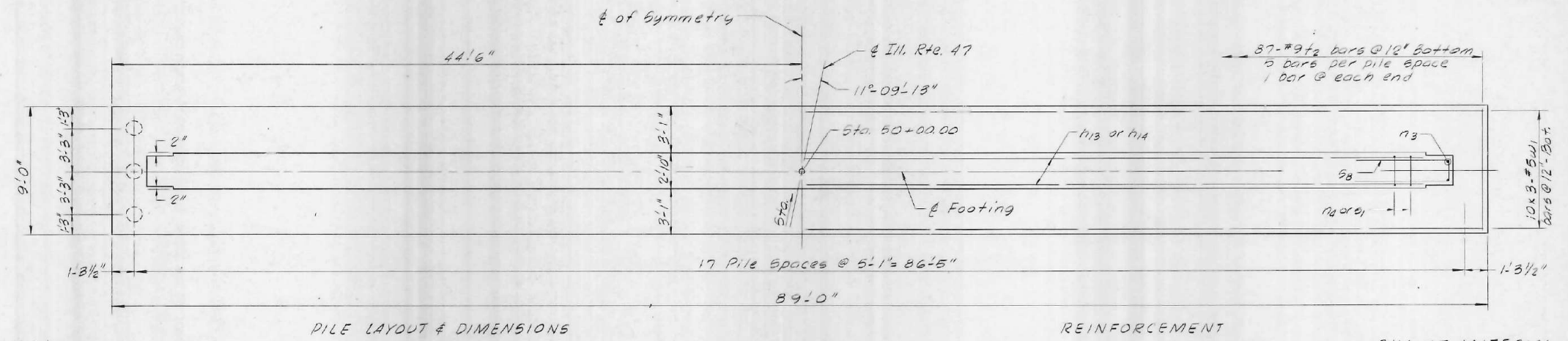
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
 STRUCTURE NO. 032-0125

SHEET NO. 13 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	129
			CONTRACT NO. 66H15	
ILLINOIS FED. AID PROJECT				

PILE DATA
Type Concrete
Capacity 35 Ton
Est Length 29'
No. Required 53 + 1 test pile



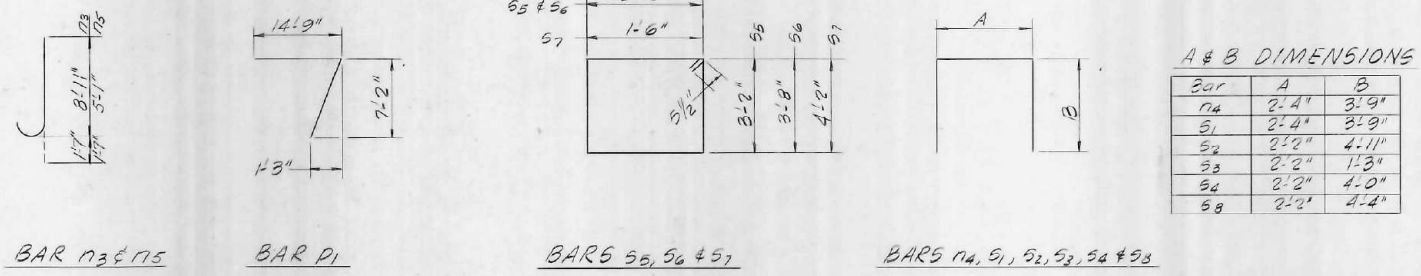
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h13	24	#5	27'-10"	—
h14	18	#6	27'-6"	—
h15	24	#5	21'-6"	—
n3	32	#11	10'-6"	—
n4	81	#6	9'-10"	—
n5	56	#11	6'-2"	—
D1	14	#11	21'-11"	—
D2	24	#11	22'-2"	—
D3	14	#11	33'-10"	—
D4	14	#11	31'-0"	—
S1	81	#5	9'-10"	—
S2	8	#5	12'-0"	—
S3	8	#5	4'-8"	—
S4	14	#5	10'-2"	—
S5	56	#5	11'-7"	—
S6	28	#5	12'-7"	—
S7	86	#5	12'-3"	—
S8	8	#5	10'-10"	—
t2	87	#9	8'-6"	—
v10	88	#11	17'-9"	—
w1	30	#5	30'-4"	—
Class X Concrete	C.Y.		176.9	
Reinforcement Bars	lbs.		31,389	
Test Pile Concrete	Each		1	
Concrete Piles	Lin. Ft.		1537	

DESIGNED P.H. CHHEDA
CHECKED J.E. SWINK
DRAWN J.J. REHAK
CHECKED R.F. JAHFLKA

EXAMINED
PASSED
APPROVED

19
ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
ENGINEER OF DESIGN
CHIEF HIGHWAY ENGINEER



PIER DETAILS
ILL.-47 SEC. 32-3HB
GRUNDY COUNTY
STA. 397 + 16.20 @ FA.I -55

FOR INFORMATION ONLY

PROJECT NO.: #PROJECTING
PRG PROJ CONTACT: #HRC2046
FILE NAME: 032025-66H5_048_ax1614.dgn
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PEN TABLE: #PEN.TABLE#

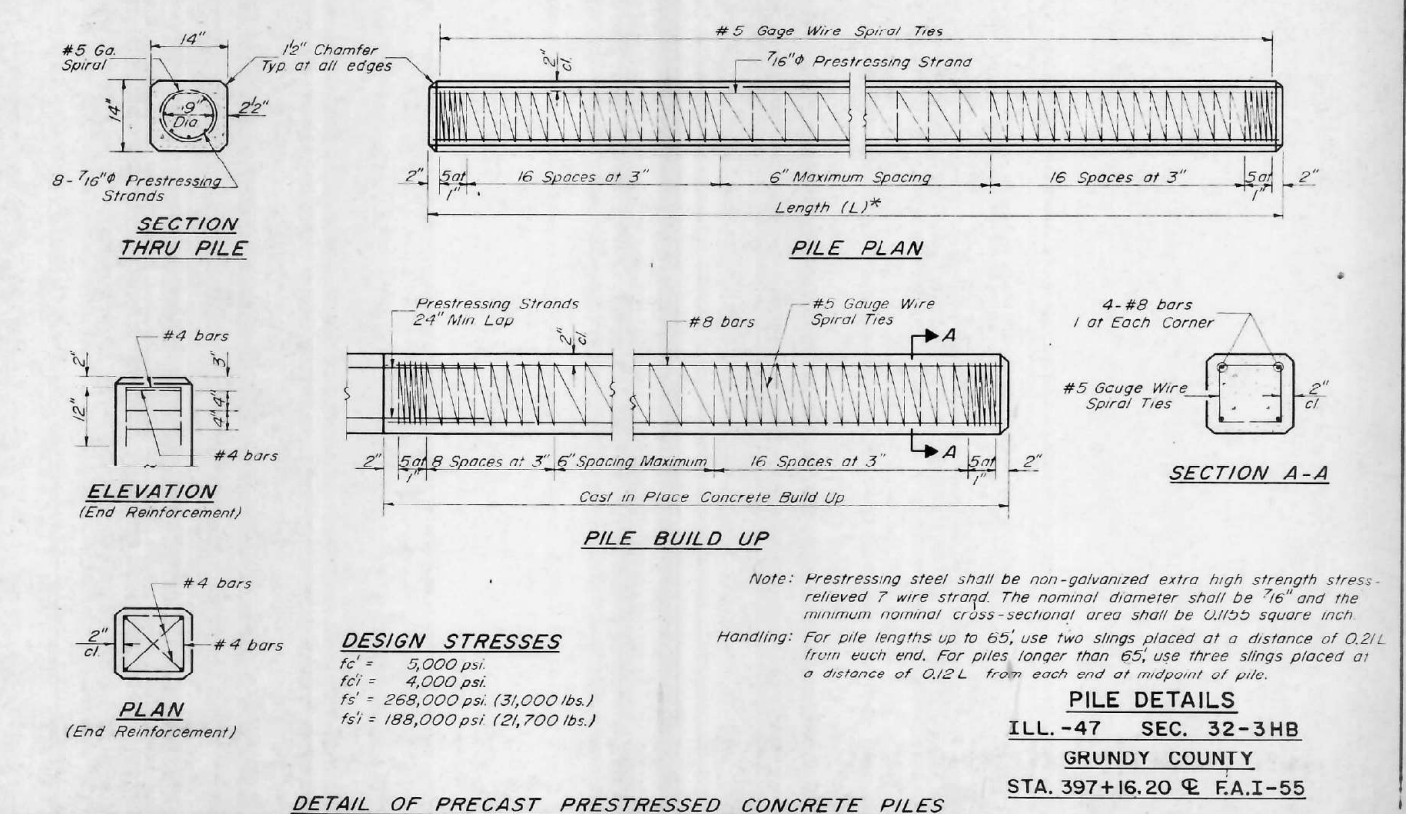
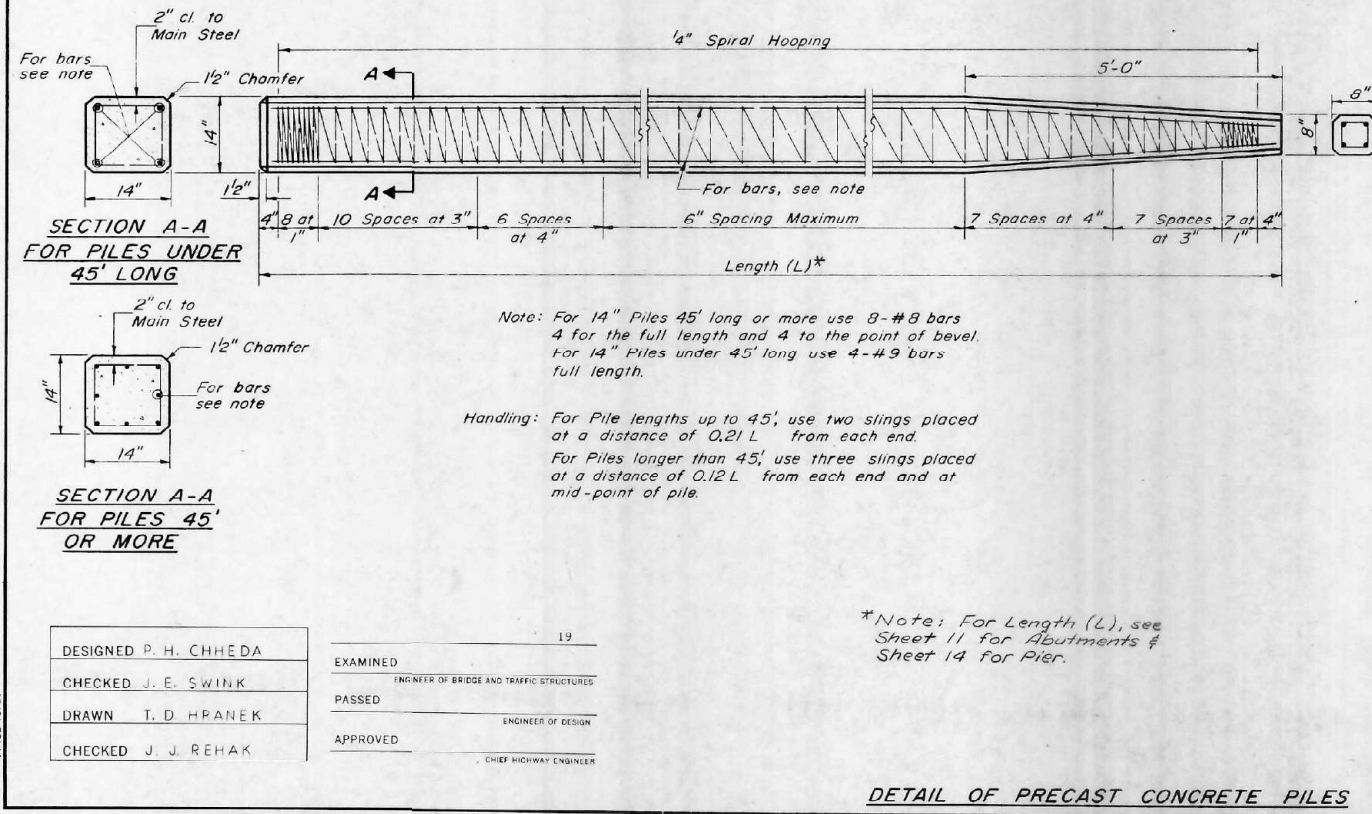
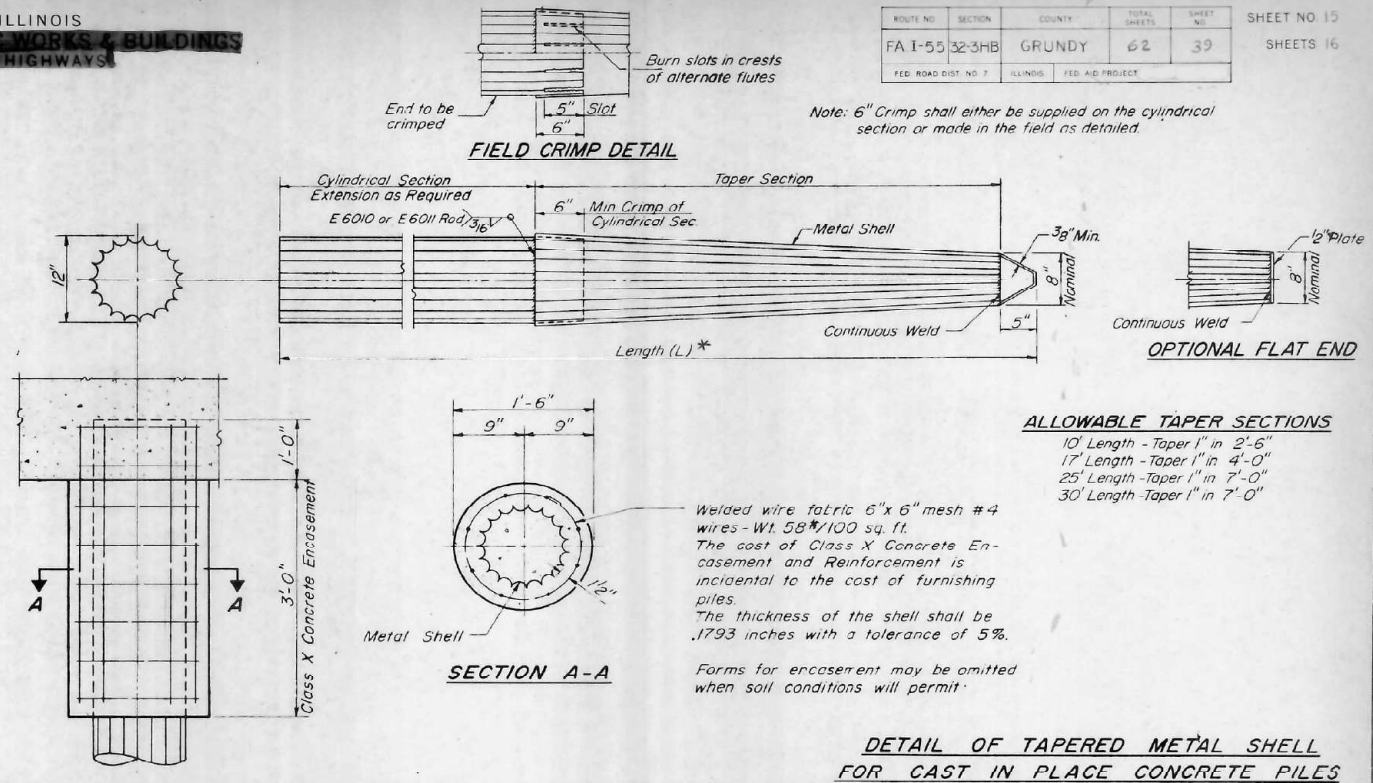
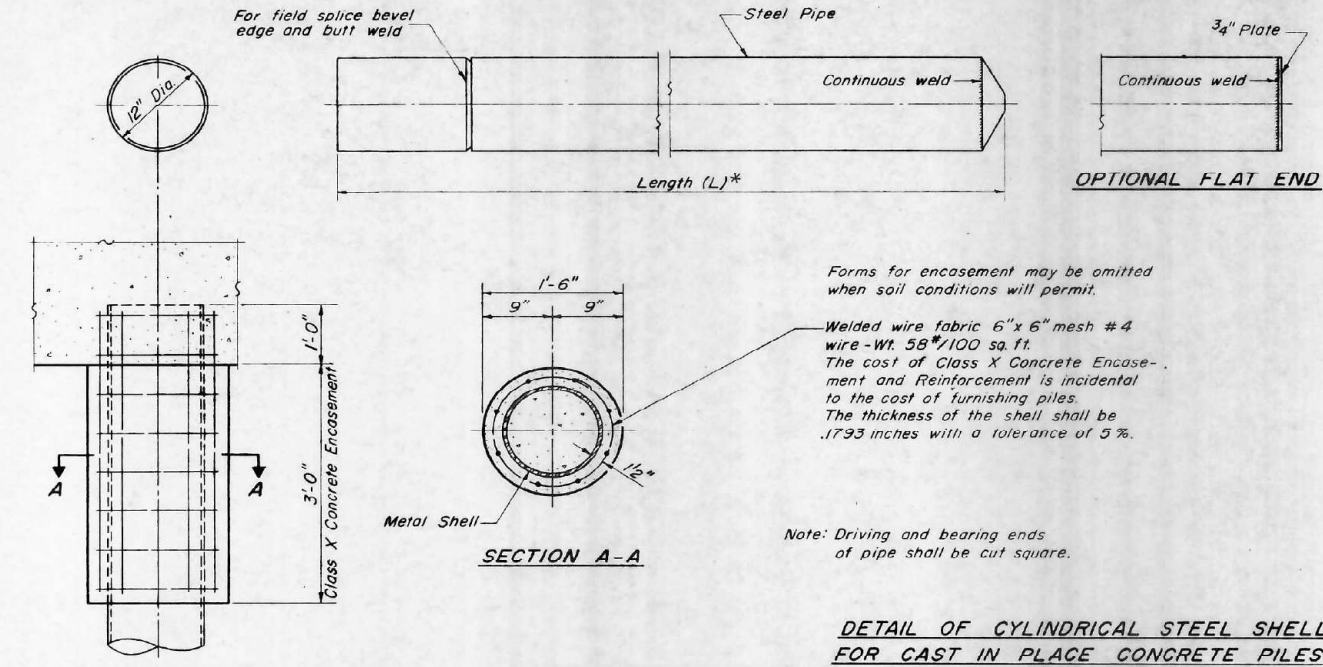
BLOOM COMPANIES, LLC
Infrastructure Division and Specialty
150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
Phone: (312) 876-9500 Fax: (312) 876-9600

USER NAME = jandrews	DESIGNED - JA	REVISED -
PLOT SCALE =	CHECKED - BT & WAO	REVISED -
PLOT DATE = 10/5/2020	DRAWN - JA	REVISED -
	CHECKED - 10/7/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 032-0125
SHEET NO. 14 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	130
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				



DESIGNED P. H. CHHEDA	EXAMINED	19
CHECKED J. E. SWINK	ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES	
DRAWN T. D. HRANEK	PASSED	ENGINEER OF DESIGN
CHECKED J. J. REHAK	APPROVED	CHIEF HIGHWAY ENGINEER

*Note: For Length (L), see Sheet 11 for Abutments & Sheet 14 for Pier.

FOR INFORMATION ONLY

PROJECT NO.: #PROJECTING8
HRG PROJ. CONTACT: #HRG2946
FILE NAME: 032025-66H5_049_ax1s15.dgn
PLOT DRIVER: #PLOT.DRV#
PEN TABLE: #PEN.TABLE#



USER NAME = jandrews	DESIGNED - JA	REVISED -
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PLOT DATE = 10/5/2020	CHECKED - 10/7/20	REVISED -

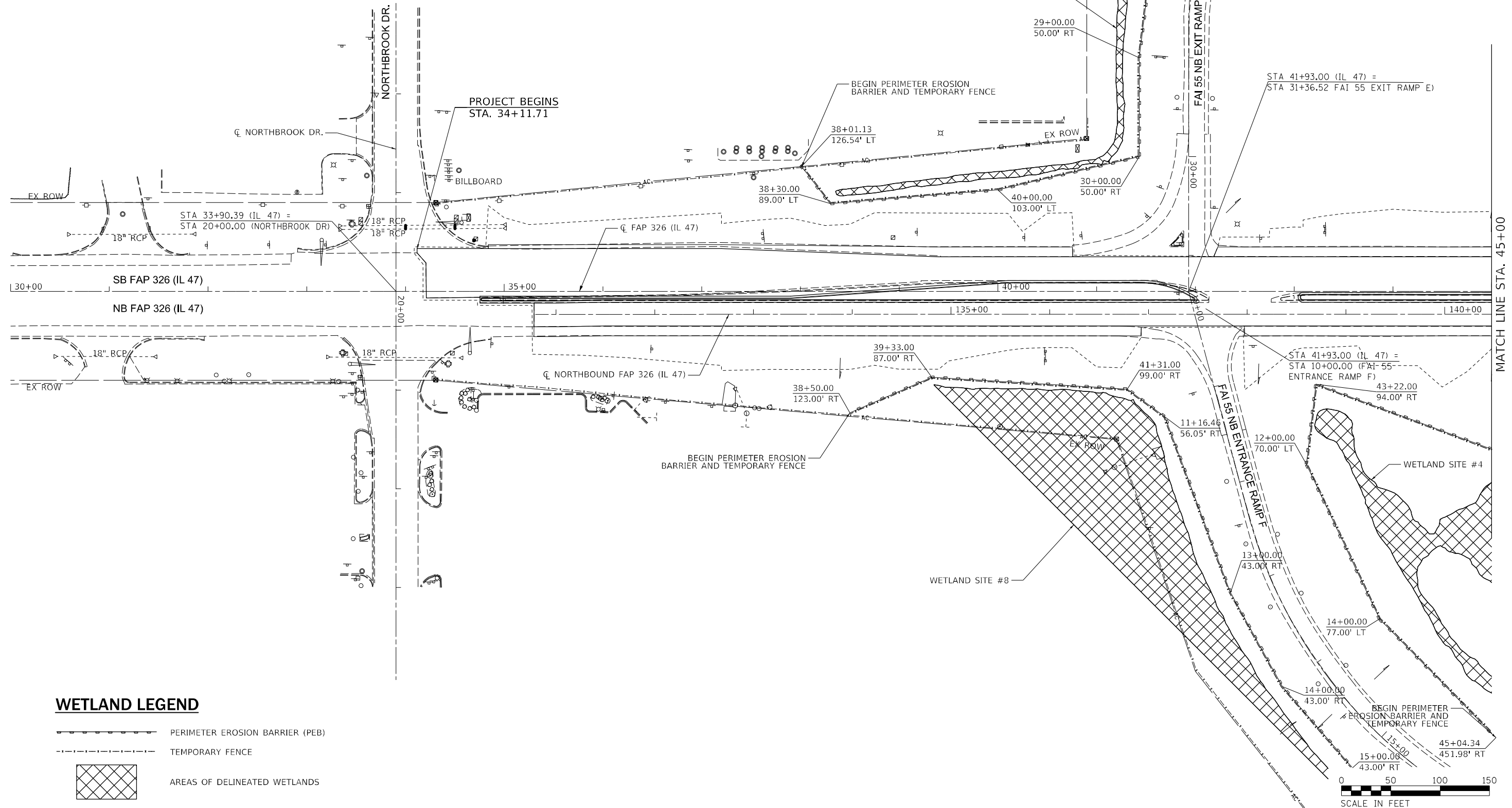
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 032-0125
SHEET NO. 15 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3) HB-1] HBK	GRUNDY	173	131
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

WETLAND SITE NO.	WETLAND TYPE	FQI	TOTAL AREA (AC)	AREA OF IMPACT (AC)	REQUIRED COMPENSATION (AC)
1	MARSH / WET MEADOW	9.6	3.434	NO IMPACT	0.000
2	WET MEADOW	8.4	0.528	NO IMPACT	0.000
3	MARSH / WET MEADOW	7.4	0.597	NO IMPACT	0.000
4	MARSH / WET MEADOW	6.8	0.877	NO IMPACT	0.000
5	MARSH	6.3	0.155	0.011	0.017
6	MARSH	6.1	0.030	NO IMPACT	0.000
7	MARSH / WET MEADOW	8.5	0.155	0.011	0.017
8	MARSH	8.5	1.429	0.008	0.012

NOTE: MITIGATION (0.045 AC TOTAL) TO BE PROVIDED OFF-SITE AT THE MORRIS WETLAND BANK



WETLAND LEGEND

- PERIMETER EROSION BARRIER (PEB)
- TEMPORARY FENCE
- AREAS OF DELINEATED WETLANDS

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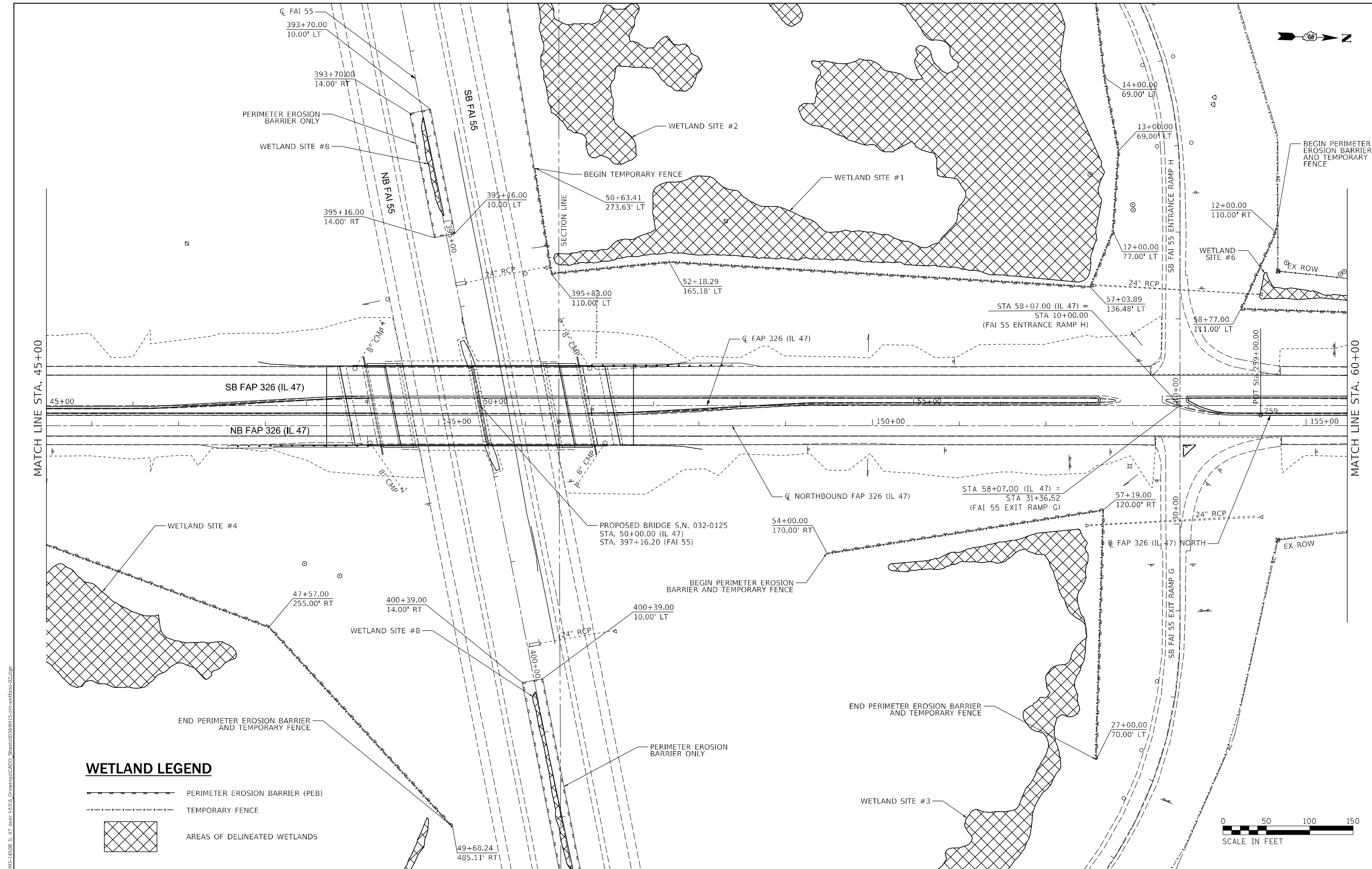
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PLOT DATE = 10/7/2020	CHECKED - LSA	REVISED -
	DATE - 10/7/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 326 (IL 47)
WETLAND PLANS**

SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	133
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66H15	



WETLAND LEGEND

- PERIMETER EROSION BARRIER (PEB)
- TEMPORARY FENCE
- AREAS OF DELINEATED WETLANDS



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BLOOM COMPANIES, LLC
 Infrastructure. Innovation. Integrity.
 150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
 Phone: (312) 876-9500 Fax: (312) 876-9653

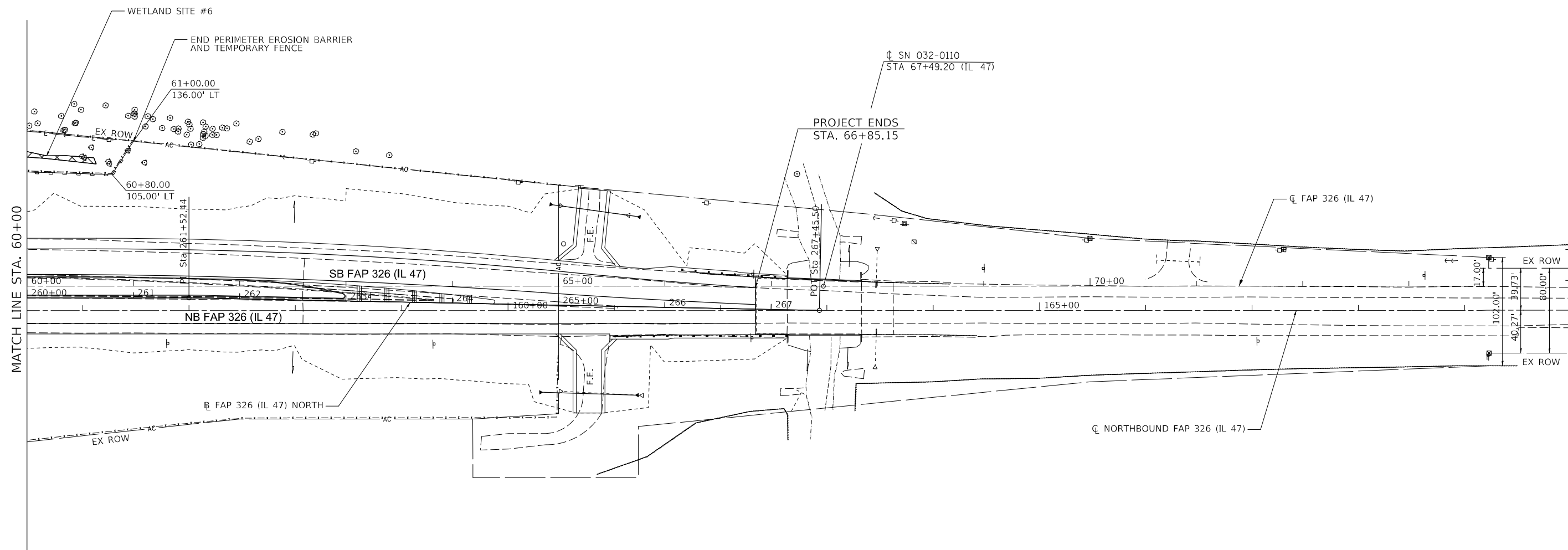
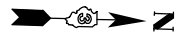
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PLOT DATE = 10/7/2020	DATE - 10/7/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 326 (IL 47)
WETLAND PLANS**

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	134
CONTRACT NO. 66H15				
ILLINOIS		FED. AID PROJECT		



WETLAND LEGEND

- PERIMETER EROSION BARRIER (PEB)
- TEMPORARY FENCE
- AREAS OF DELINEATED WETLANDS



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USER NAME = fyousef	DESIGNED - TSB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 10/7/20	REVISED -

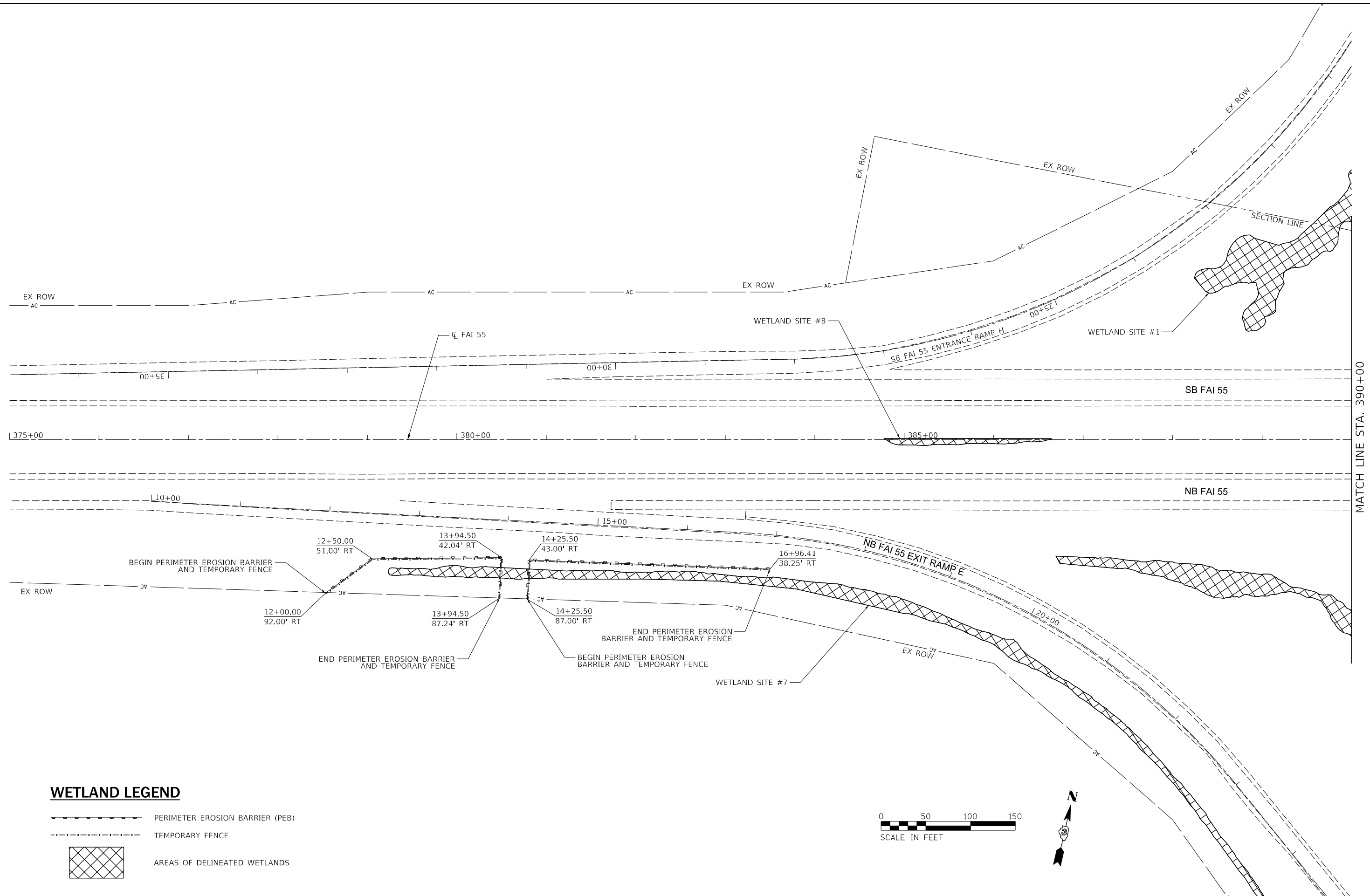
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**FAP 326 (IL 47)
WETLAND PLANS**

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	135
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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WETLAND LEGEND

- PERIMETER EROSION BARRIER (PEB)
- TEMPORARY FENCE
- AREAS OF DELINEATED WETLANDS



MATCH LINE STA. 390+00

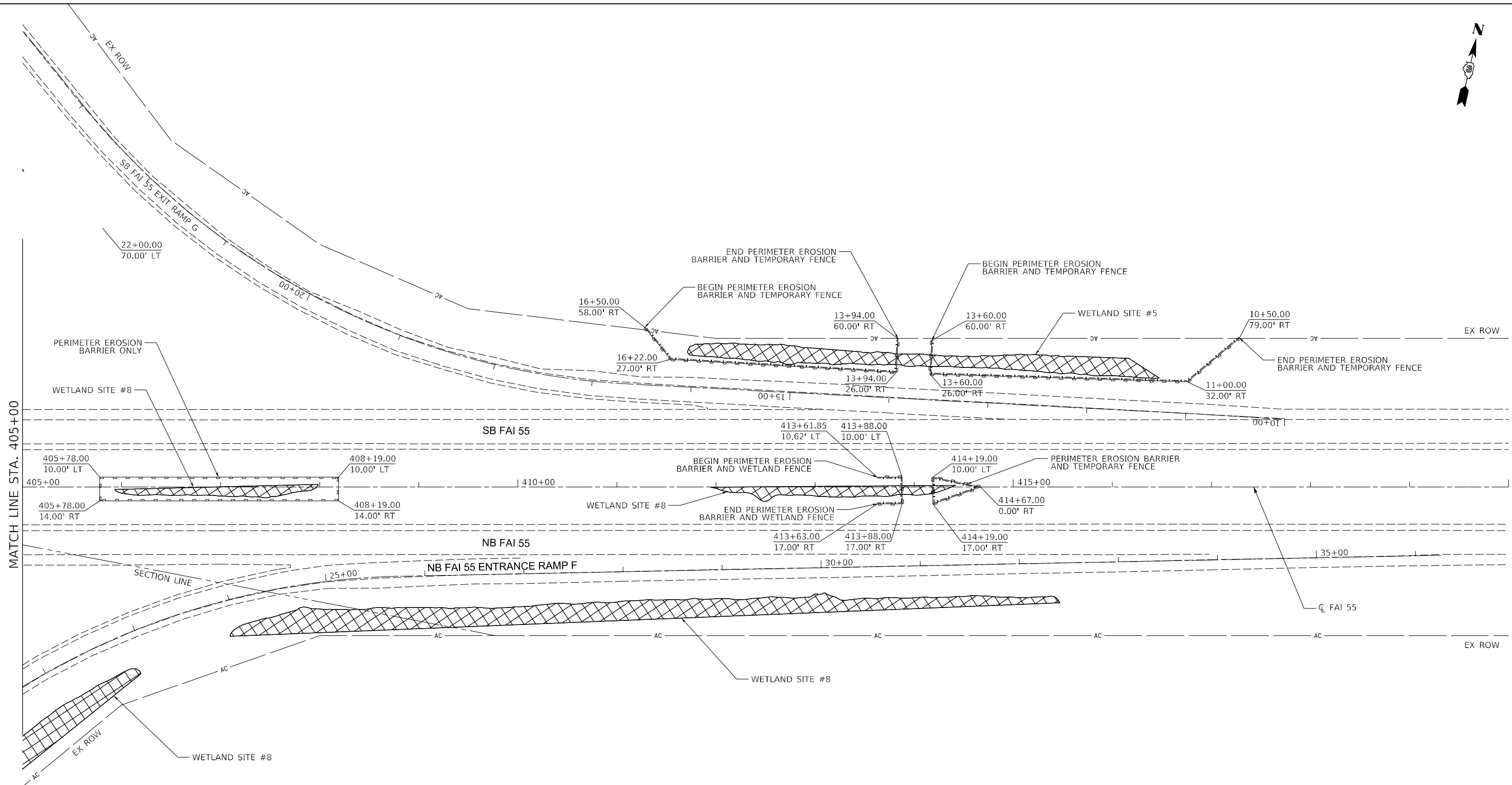
BLOOM COMPANIES, LLC
 Infrastructure, Construction and Design
 150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
 Phone: (312) 878-9500 Fax: (312) 878-9853

USER NAME = fyousef	DESIGNED - TSB	REVISED -
	DRAWN - TSB	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - LSA	REVISED -
PLOT DATE = 10/7/2020	DATE - 10/7/20	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAI 55 WETLAND PLANS			
SCALE: 1"=50'	SHEET 4	OF 6 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	136
			CONTRACT NO. 66H15	
ILLINOIS FED. AID PROJECT				



WETLAND LEGEND

- PERIMETER EROSION BARRIER (PEB)
- TEMPORARY FENCE
- AREAS OF DELINEATED WETLANDS



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BLOOM COMPANIES, LLC
Infrastructure, Design and Digital
 150 N. Wacker Drive, Suite 1600 • Chicago, IL 60606
 Phone: (312) 878-9500 Fax: (312) 878-9853

USER NAME = fyousef	DESIGNED - TSB	REVISED -
DRAWN - TSB	REVISIONS -	
PLOT SCALE = 100,0000' / in.	CHECKED - LSA	REVISED -
PLOT DATE = 10/7/2020	DATE - 10/7/20	REVISED -

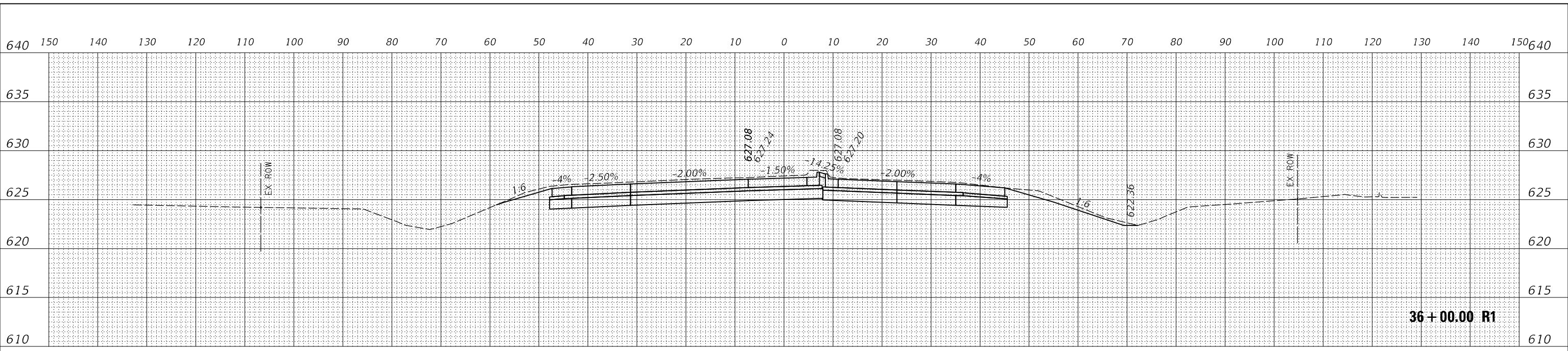
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI 55
WETLAND PLANS

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. TO STA.

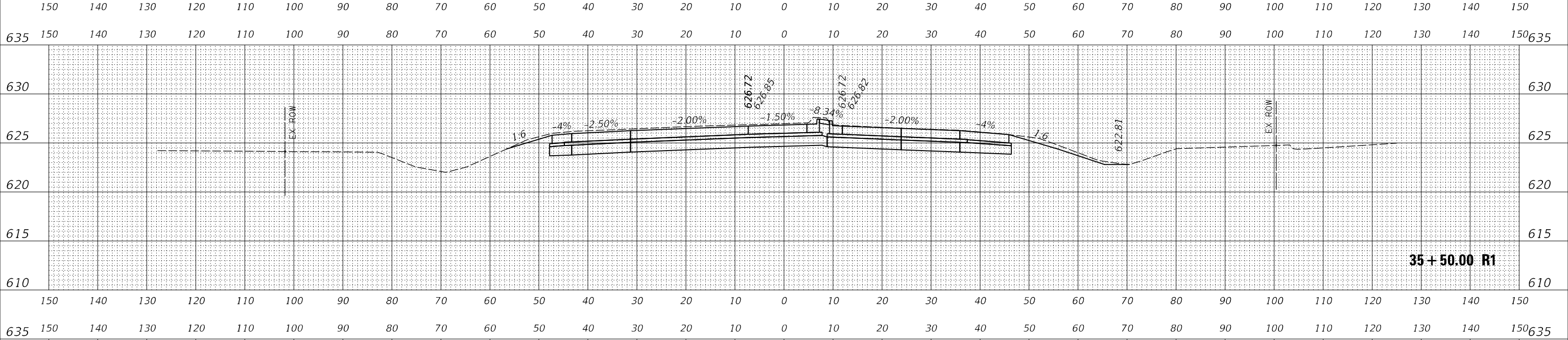
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	138
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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



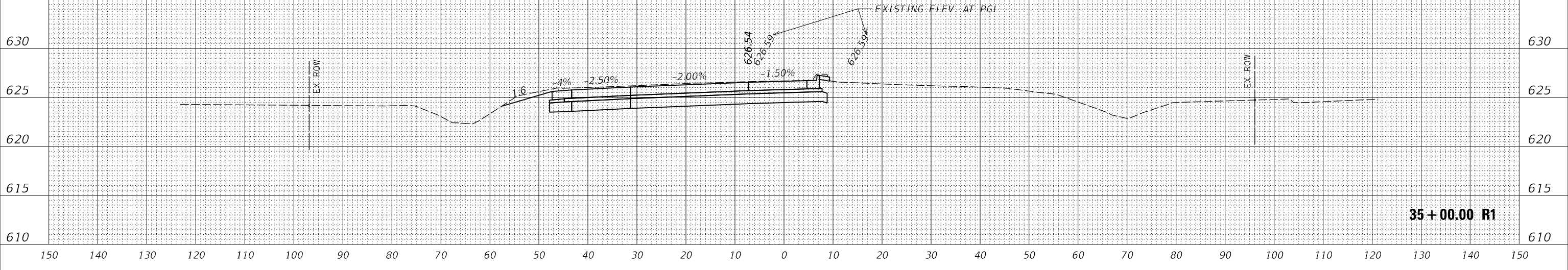
36+00.00 R1

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



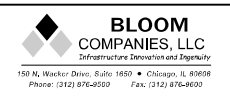
35+50.00 R1

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



35+00.00 R1

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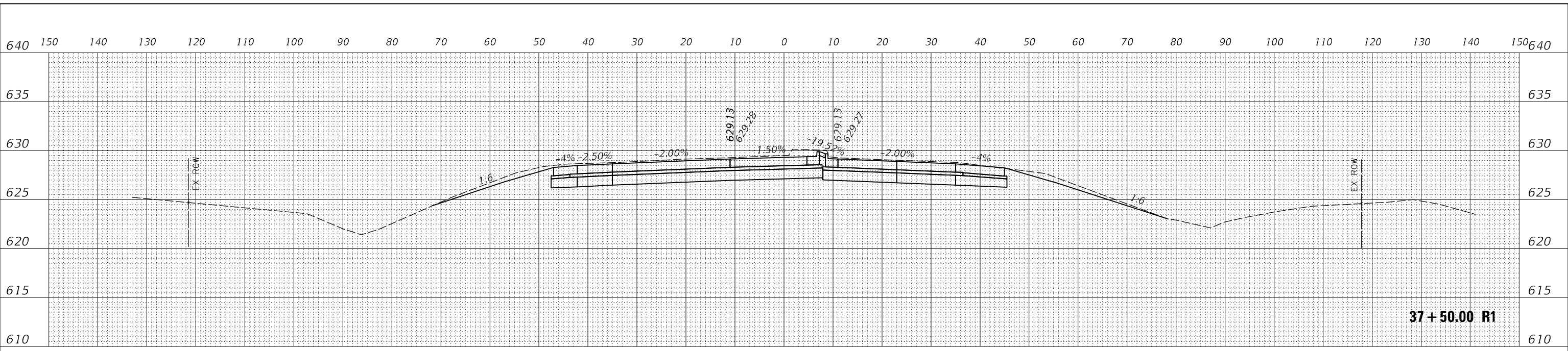
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

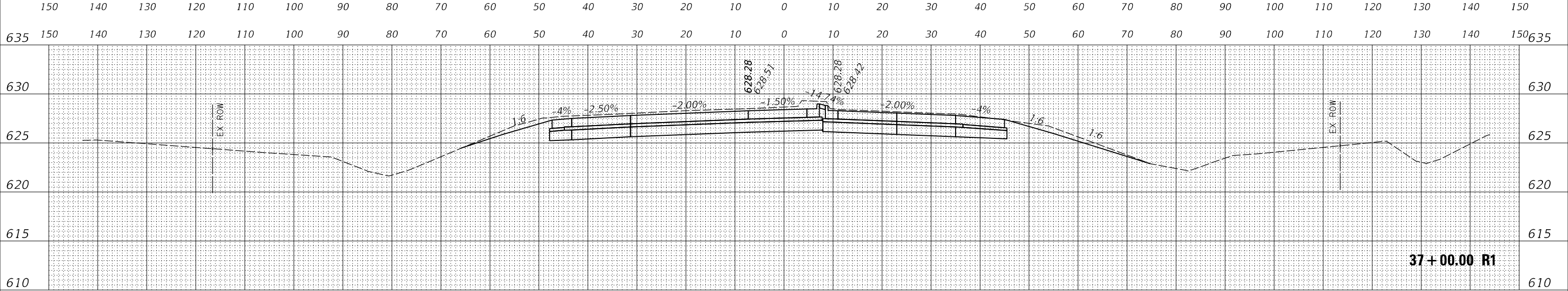
SCALE: 1"=10' SHEET OF SHEETS STA. 35+00.00 R1 TO STA. 36+00.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

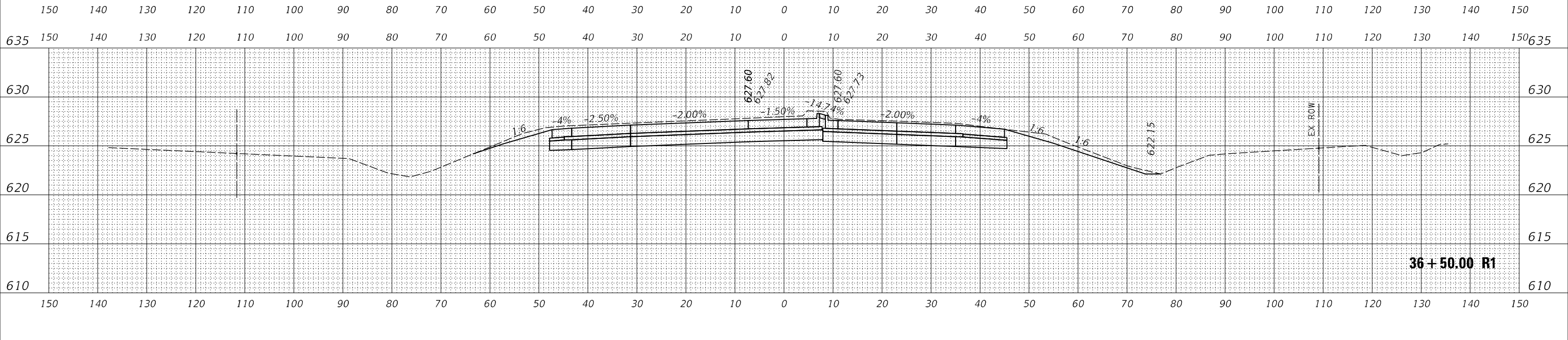
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BY	
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NOTE BOOK	PLOTTED
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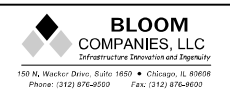
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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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



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DESIGNED	- JB
DRAWN	- JB
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DATE	- 05/12/20
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REVISIONS	

STATE OF ILLINOIS
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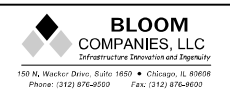
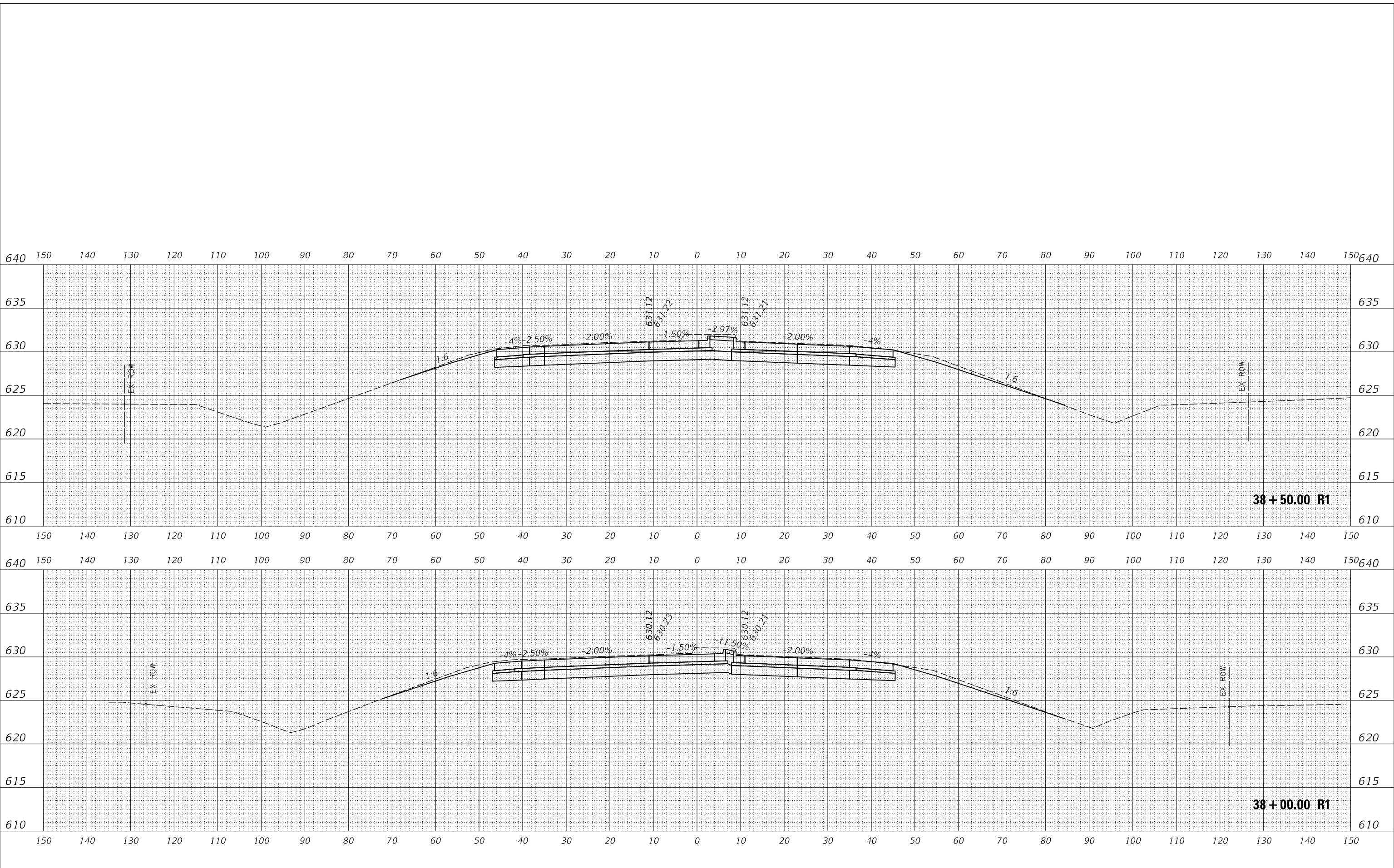
FAP 326 (IL 47) CROSS SECTIONS
 SCALE: 1"=10'
 SHEET OF SHEETS STA. 36+50.00 R1 TO STA. 37+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	140
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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

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

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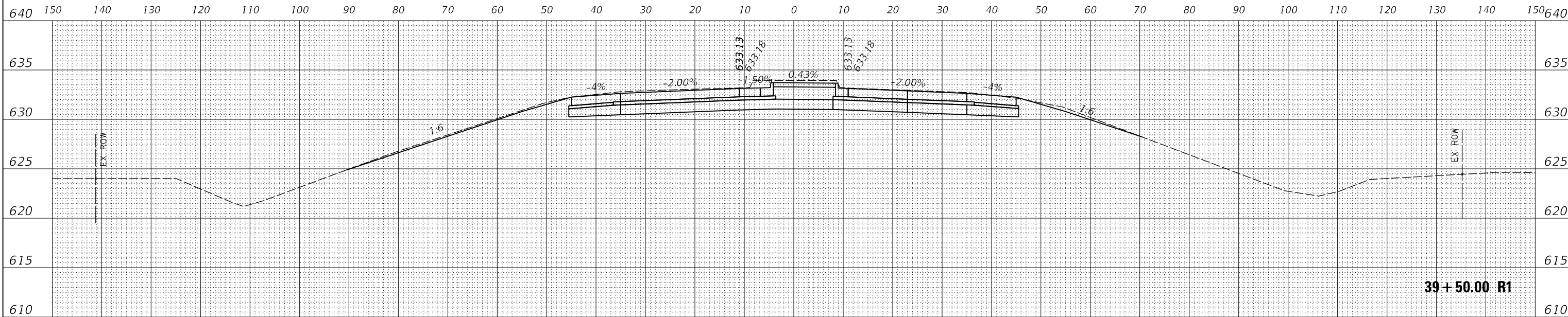
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

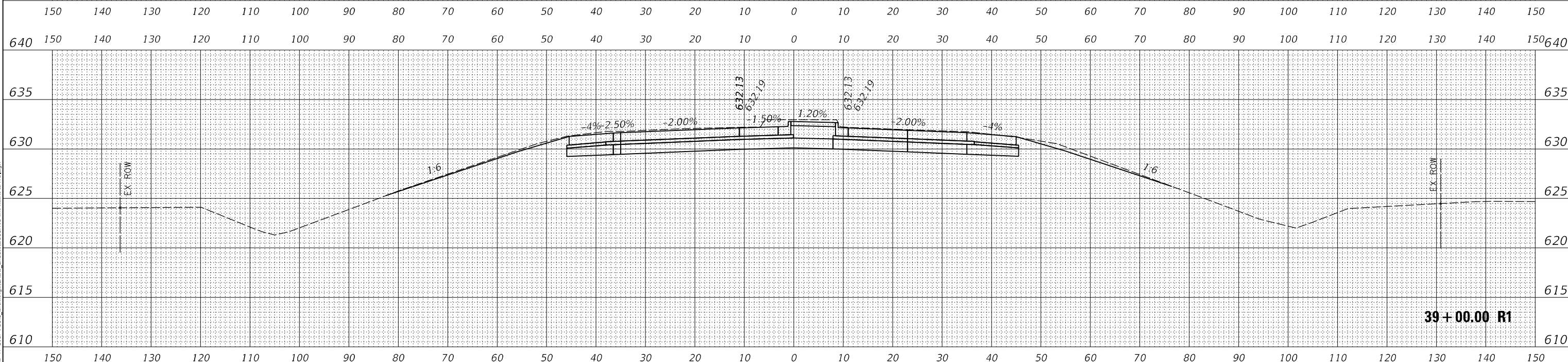
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	141
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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



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



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PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

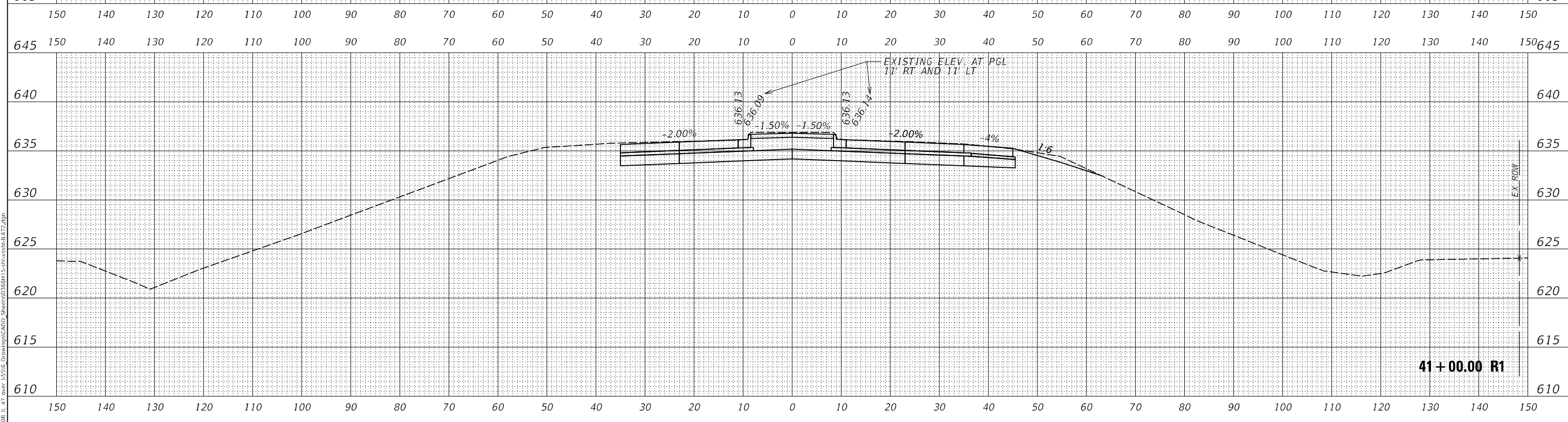
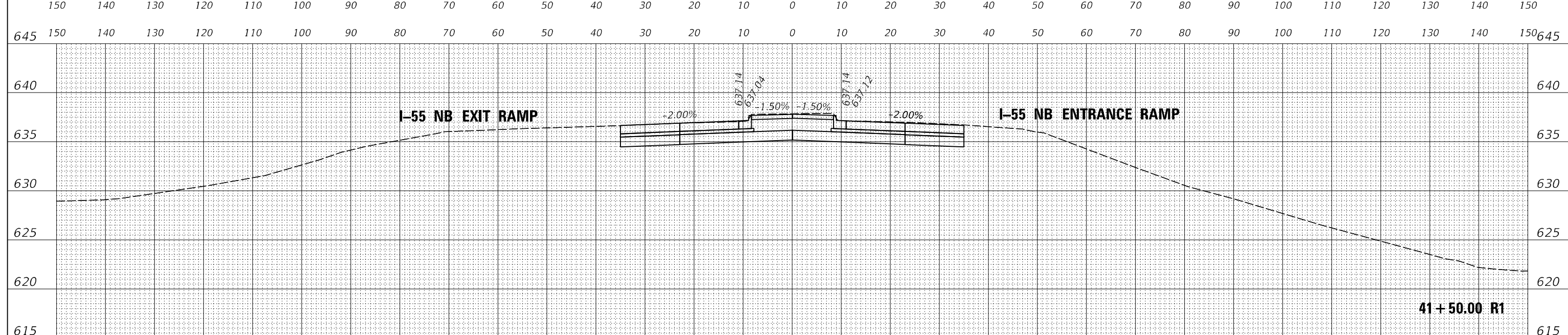
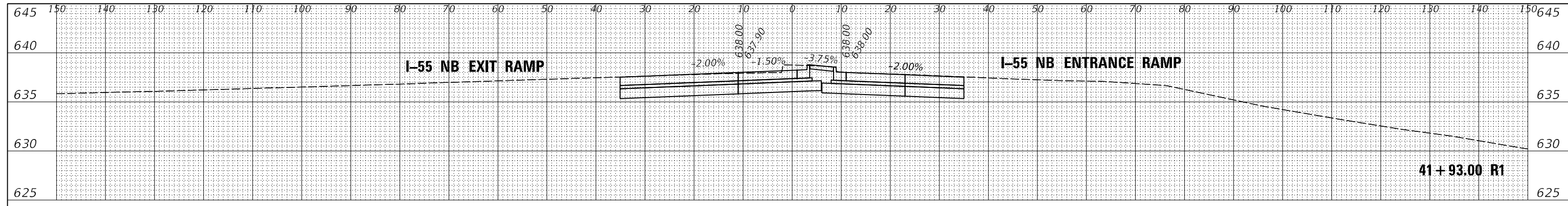
FAP 326 (IL 47) CROSS SECTIONS

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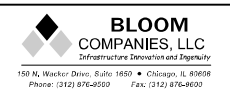
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CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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

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



MODEL: FCI.47
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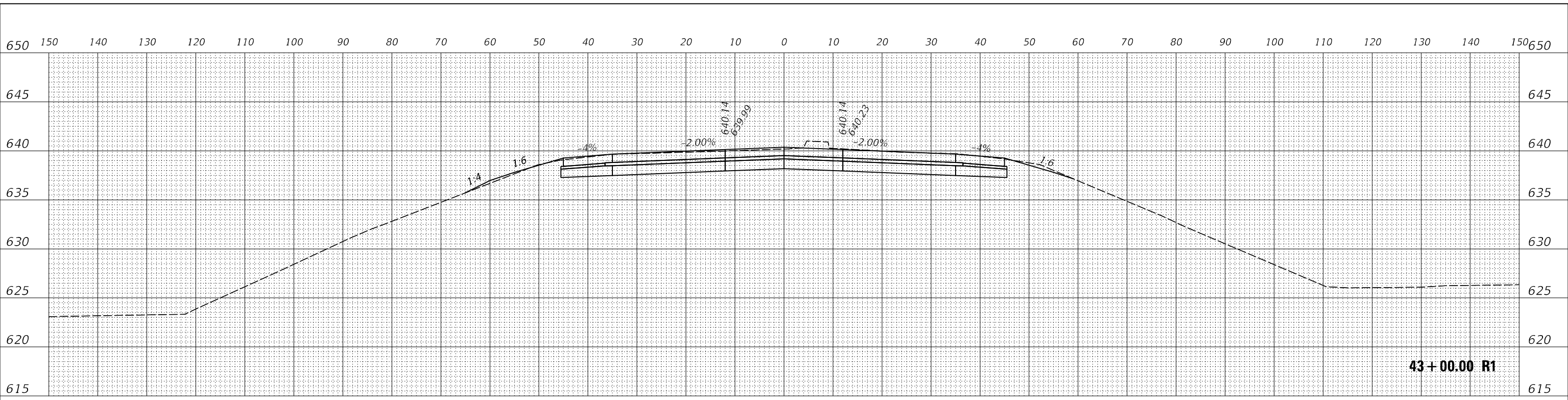
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PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS
 SCALE: 1"=10'
 SHEET OF SHEETS STA. 41+00.00 R1 TO STA. 41+93.00 R1

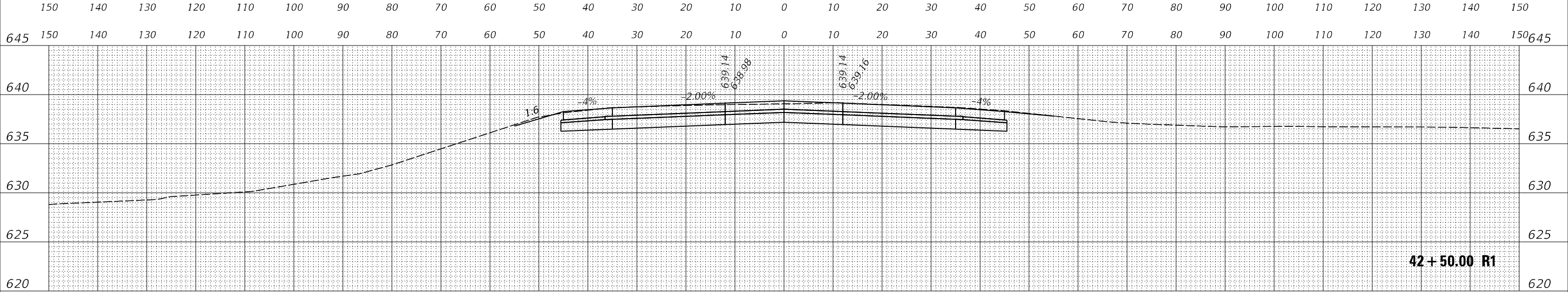
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55	[(32-3)HB-1]HBK	GRUNDY	173	144
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

DATE	
BY	
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FINAL SURVEY	
NOTE BOOK	
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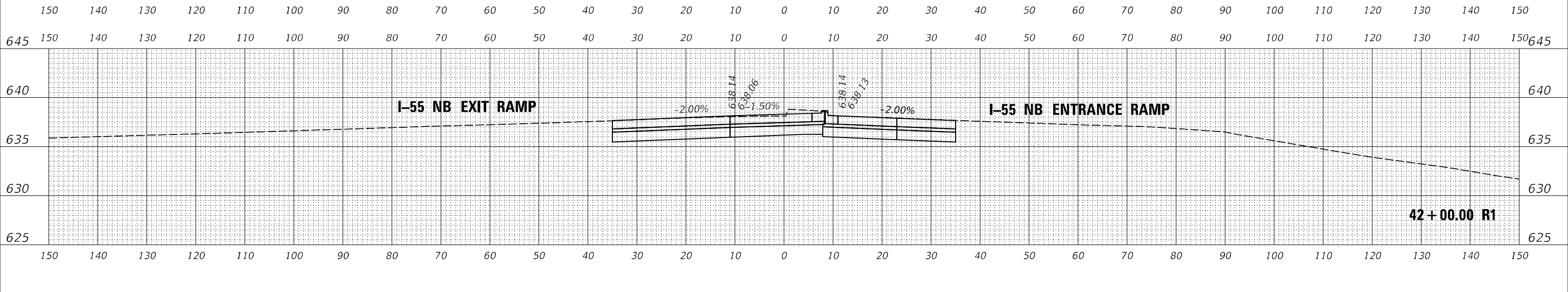


43+00.00 R1

DATE	
BY	
SURVEYED	
PLOTTED	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	

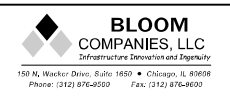


42+50.00 R1



42+00.00 R1

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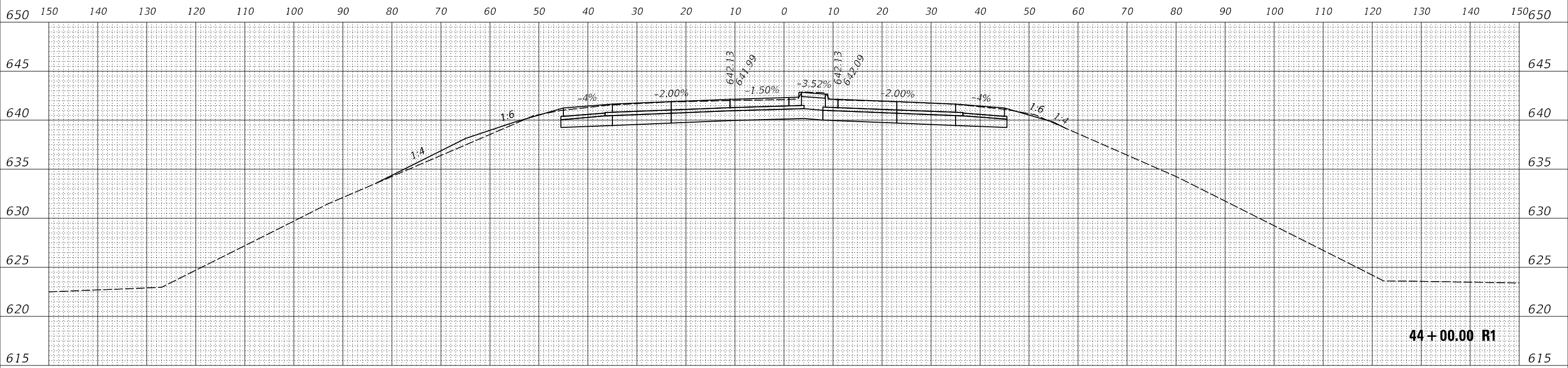
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	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS
SCALE: 1"=10'
SHEET OF SHEETS STA. 42+00.00 R1 TO STA. 43+00.00 R1

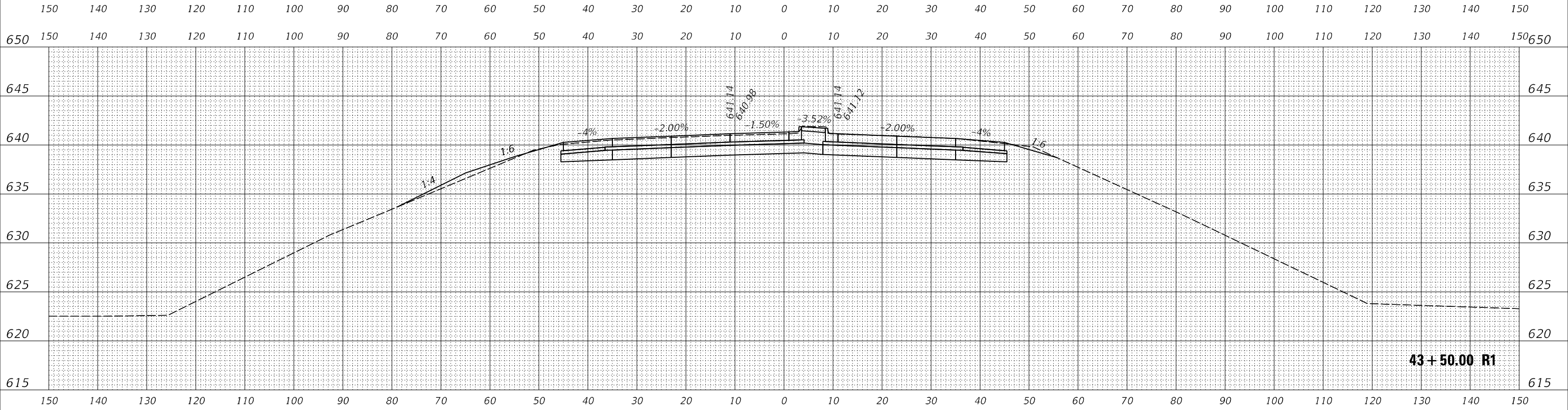
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	145
				CONTRACT NO. 66H15
				ILLINOIS FED. AID PROJECT

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



44 + 00.00 R1

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



43 + 50.00 R1

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over: L5316 Drawings\CADD_Sheets\0360115-Struckwell\472.dgn



USER NAME = fyousef	DESIGNED - JB	REVISED -
	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

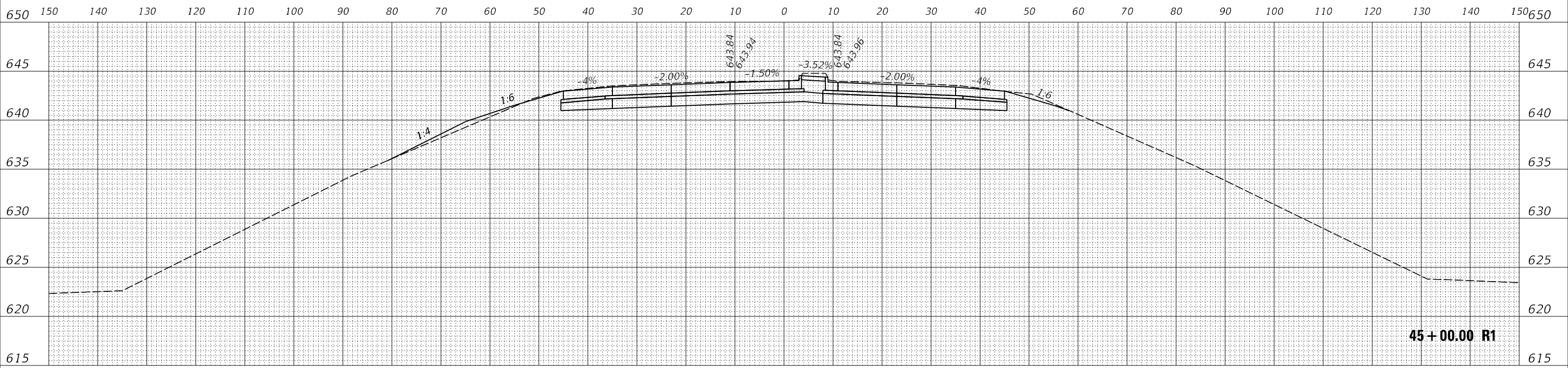
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

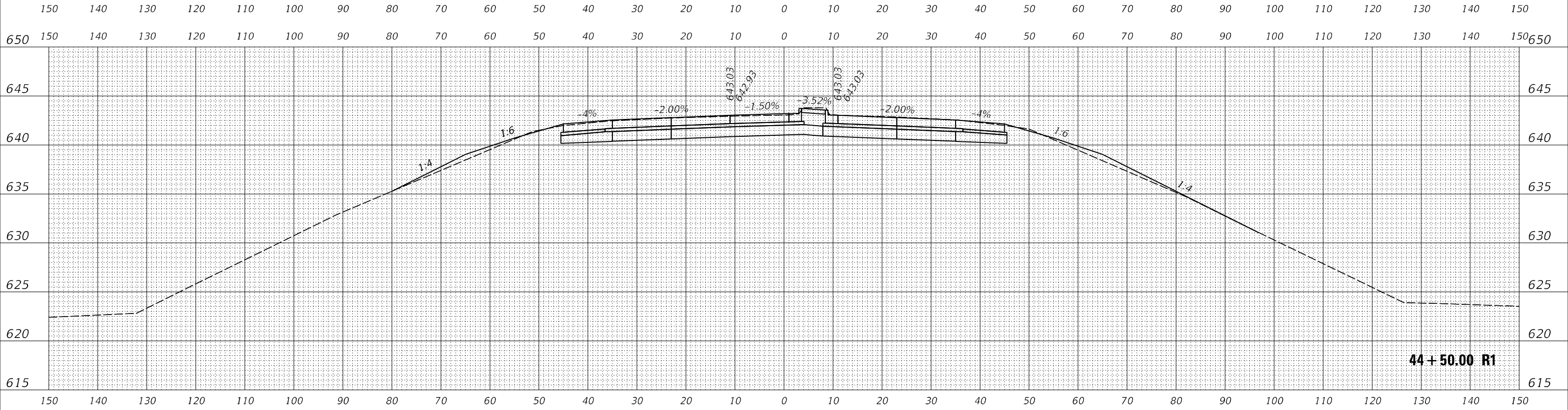
SCALE: 1"=10' SHEET OF SHEETS STA. 43+50.00 R1 TO STA. 44+00.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	146
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

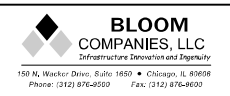
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINAL SURVEY	
NOTE BOOK	
NO.	



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



MODEL: FCI.47
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USER NAME	= fyousef	DESIGNED	- JB	REVISED	-
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PLOT DATE	= 10/7/2020	DATE	- 05/12/20	REVISED	-

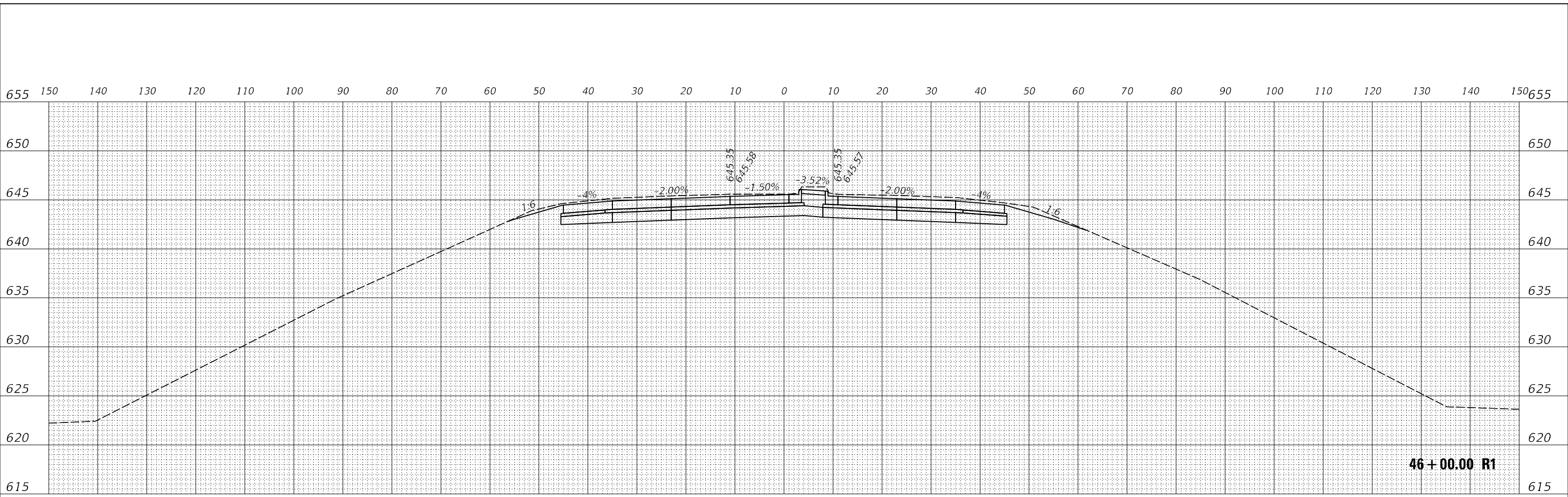
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 44+50.00 R1 TO STA. 45+00.00 R1

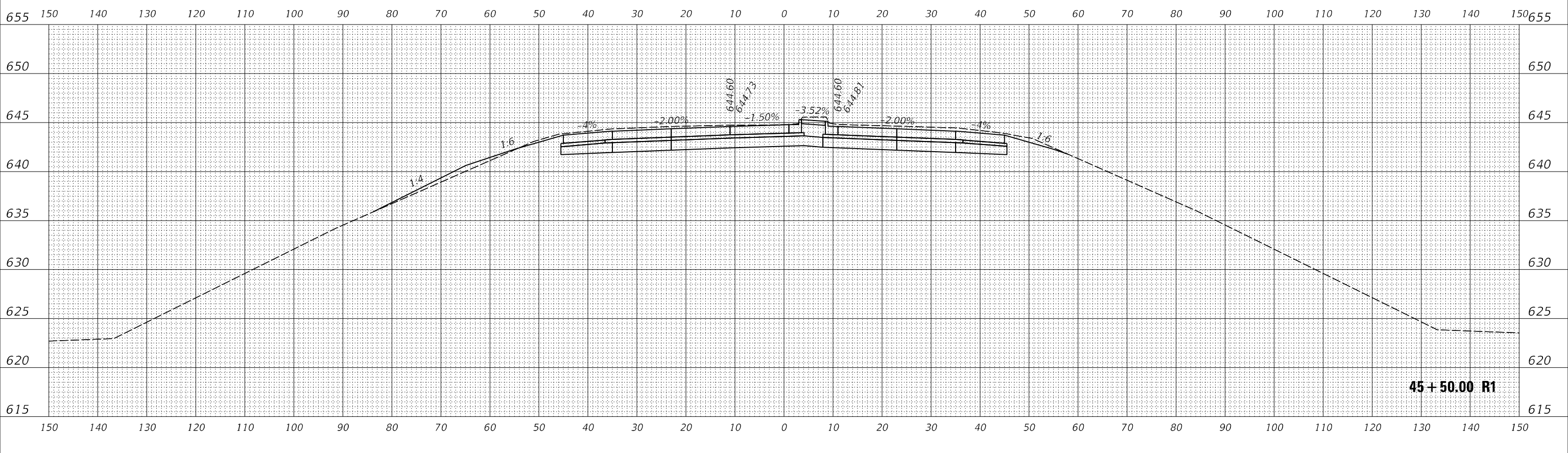
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	147
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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



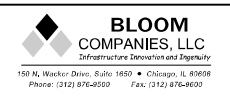
46 + 00.00 R1

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



45 + 50.00 R1

MODEL: FACP1.47
FILE NAME: X:\BMS-1450B_IL_47.dwg



USER NAME	= fyousef	DESIGNED	- JB	REVISED	-
		DRAWN	- JB	REVISED	-
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PLOT DATE	= 10/7/2020	DATE	- 05/12/20	REVISED	-

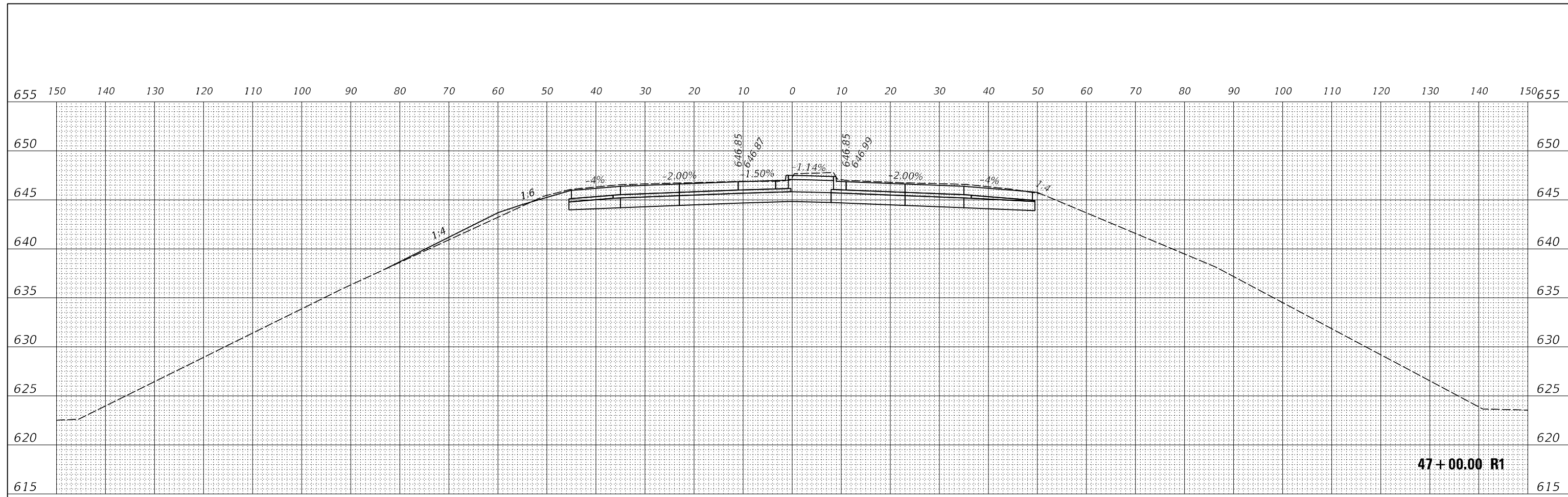
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 45+50.00 R1 TO STA. 46+00.00 R1

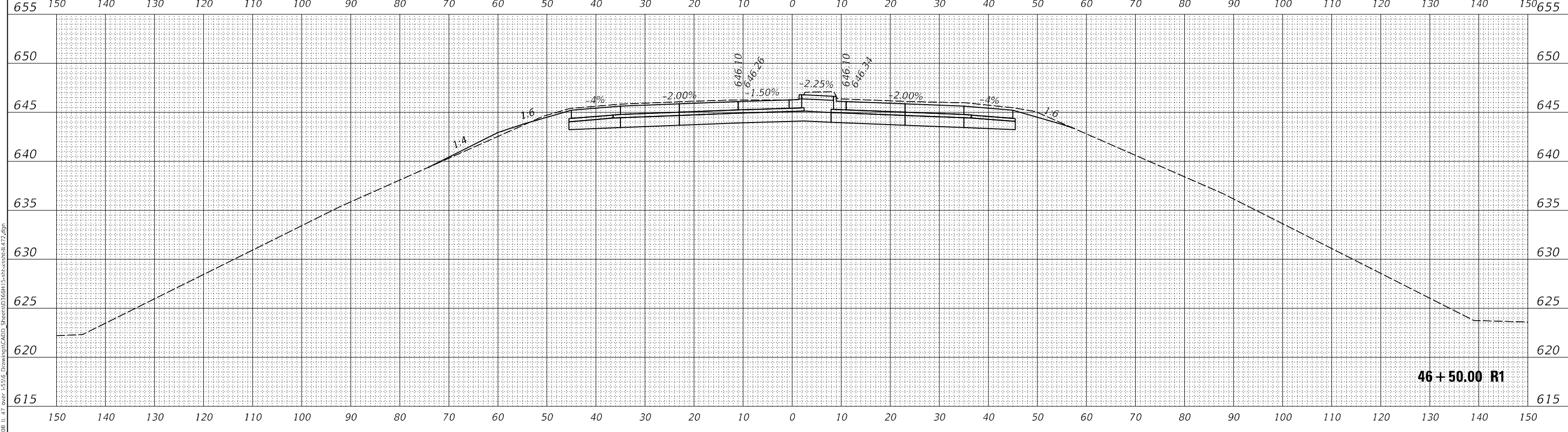
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	148
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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



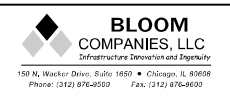
47+00.00 R1

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



46+50.00 R1

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USER NAME = fyousef	DESIGNED - JB	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED -	REVISED -
PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

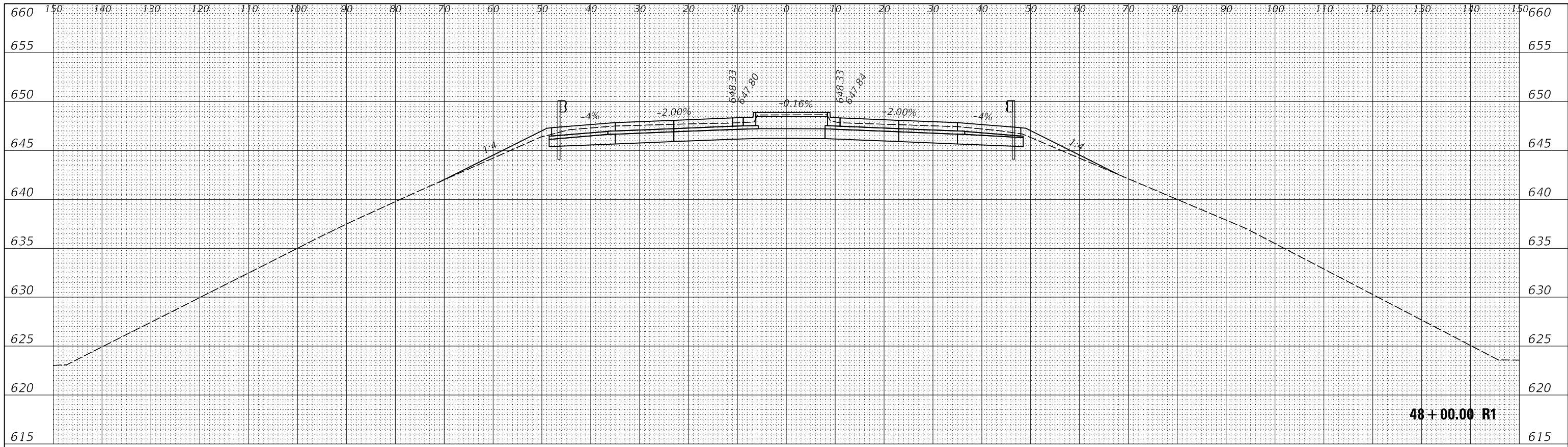
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 46+50.00 R1 TO STA. 47+00.00 R1

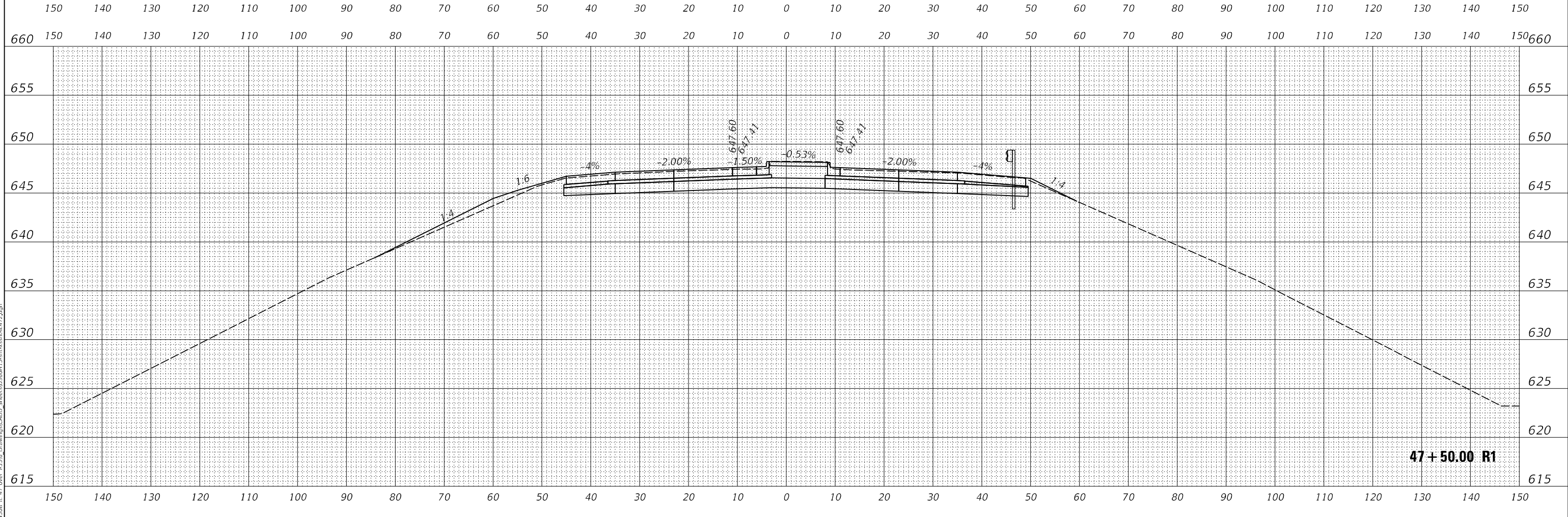
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	149
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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



48 + 00.00 R1

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



47 + 50.00 R1

MODEL: FACP.47
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USER NAME = fyousef	DESIGNED - JB	REVISED -
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PLOT SCALE = 20,0000 * / in.	CHECKED - LA	REVISED -
PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

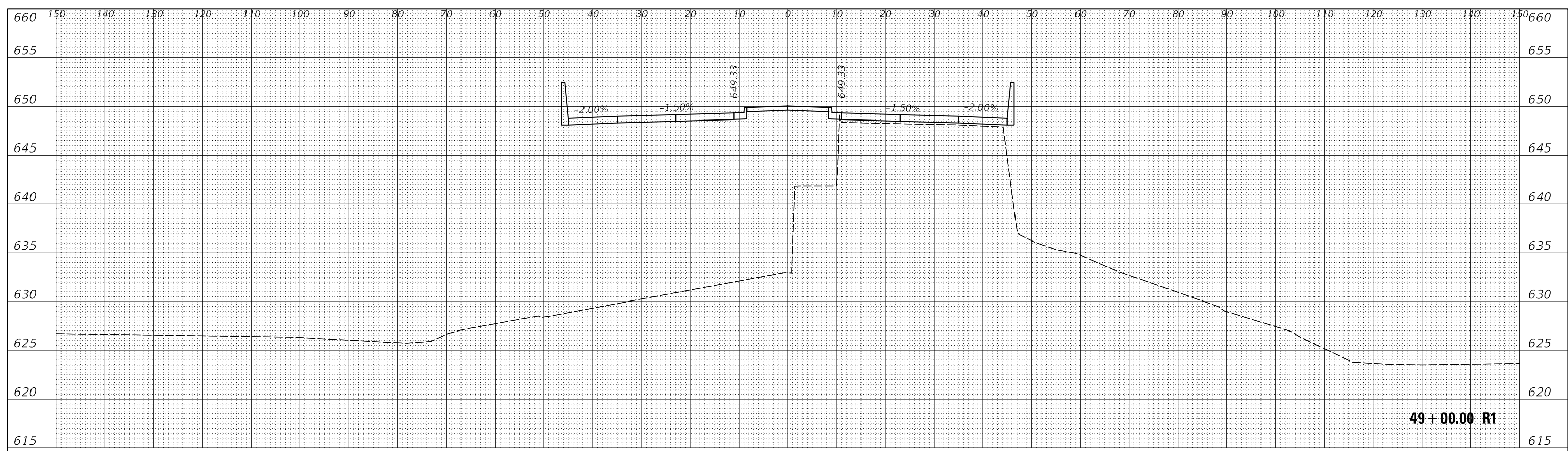
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 47+50.00 R1 TO STA. 48+00.00 R1

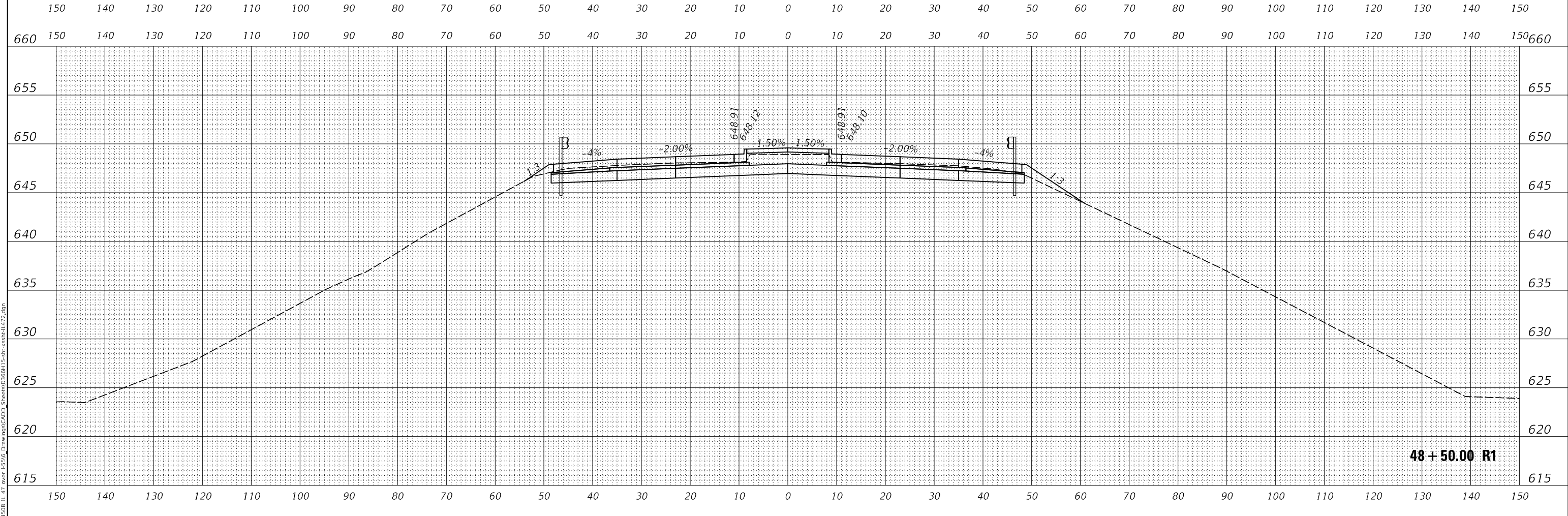
F.A.I. RTE. 55	SECTION [(32-3)HB-1]HBK	COUNTY GRUNDY	TOTAL SHEETS 173	SHEET NO. 150
				CONTRACT NO. 66H15
ILLINOIS FED. AID PROJECT				

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



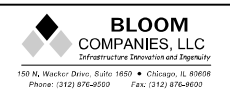
49+00.00 R1

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



48+50.00 R1

MODEL: FCI.47
FILE NAME: X:\BMS-1450B_IL_47.dwg



USER NAME = fyousef	DESIGNED - JB	REVISED -
	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

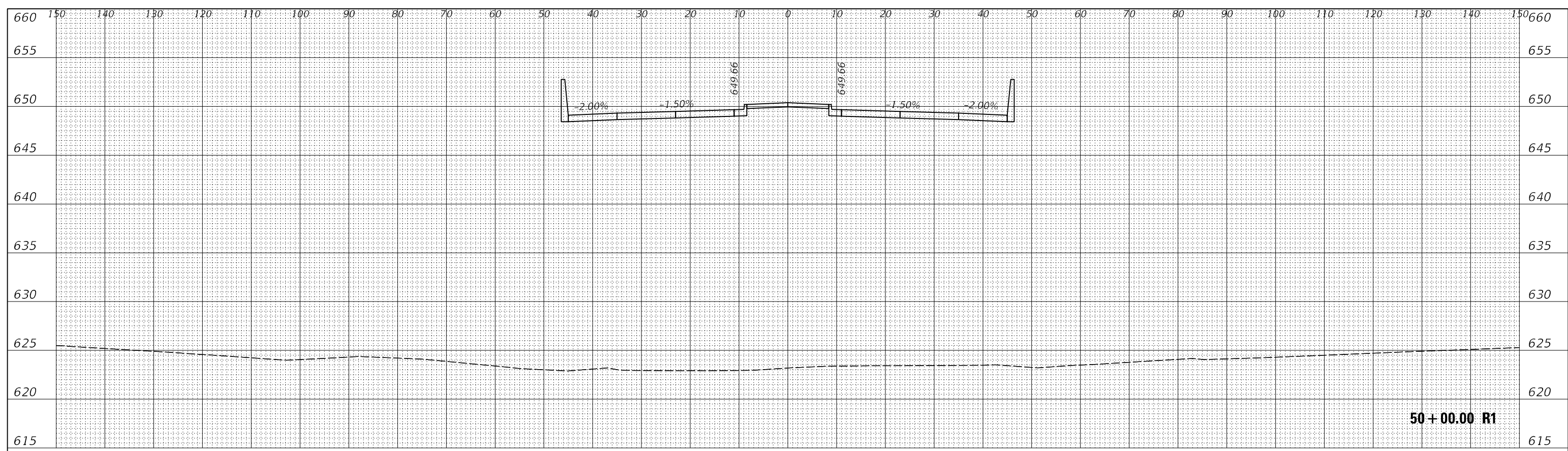
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 48+50.00 R1 TO STA. 49+00.00 R1

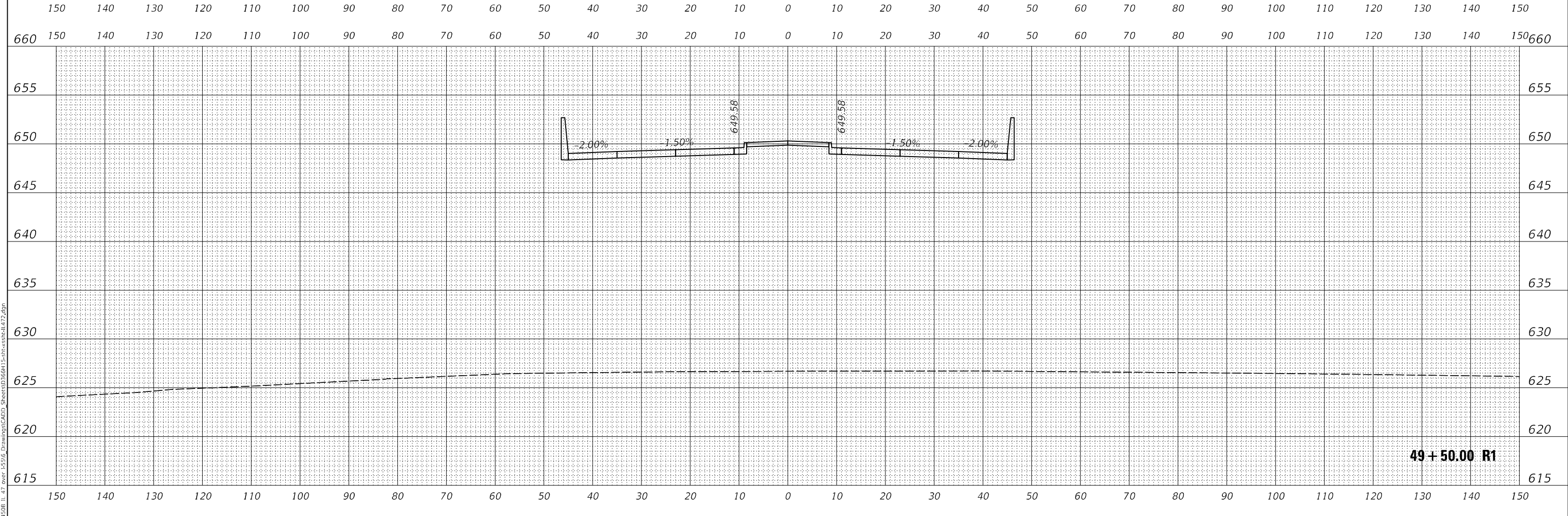
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	151
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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



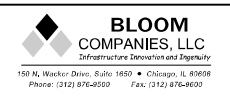
50+00.00 R1

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



49+50.00 R1

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PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

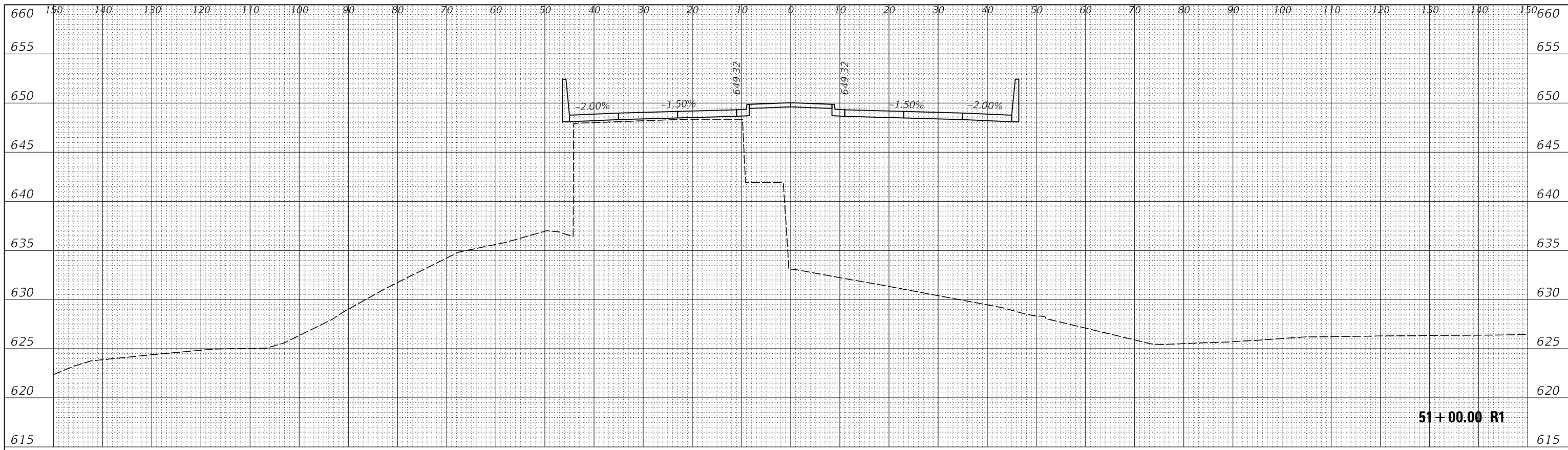
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 49+50.00 R1 TO STA. 50+00.00 R1

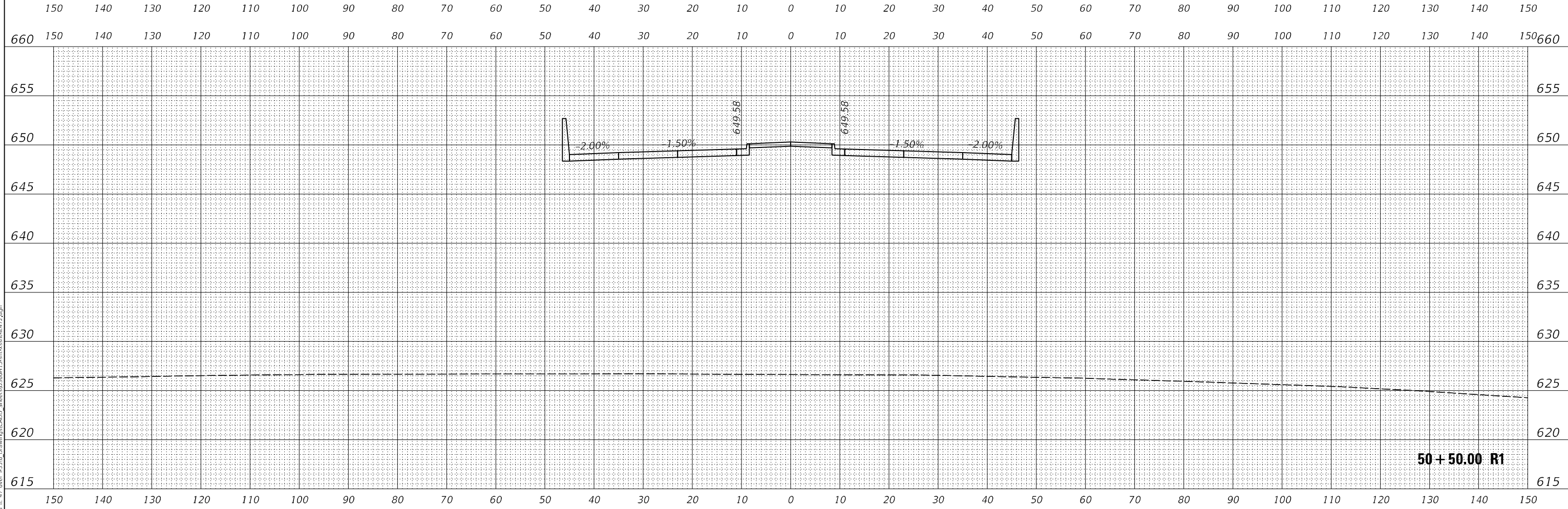
F.A.I. RTE. 55	SECTION [(32-3)HB-1]HBK	COUNTY GRUNDY	TOTAL SHEETS 173	SHEET NO. 152
				CONTRACT NO. 66H15
				ILLINOIS FED. AID PROJECT

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



51+00.00 R1

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



50+50.00 R1

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PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

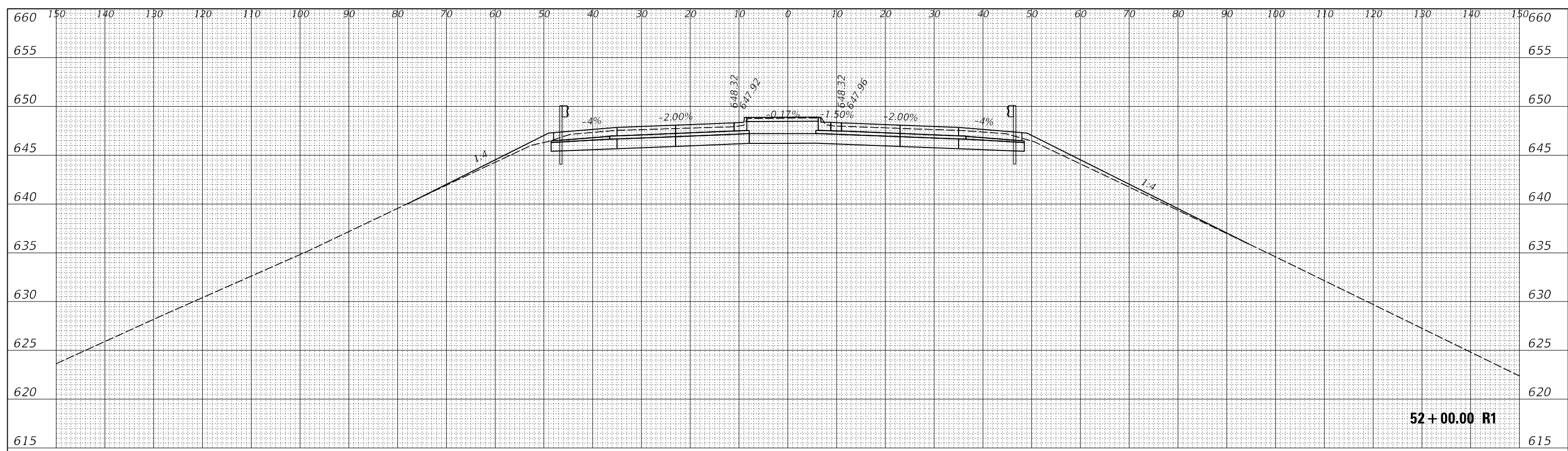
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 50+50.00 R1 TO STA. 51+00.00 R1

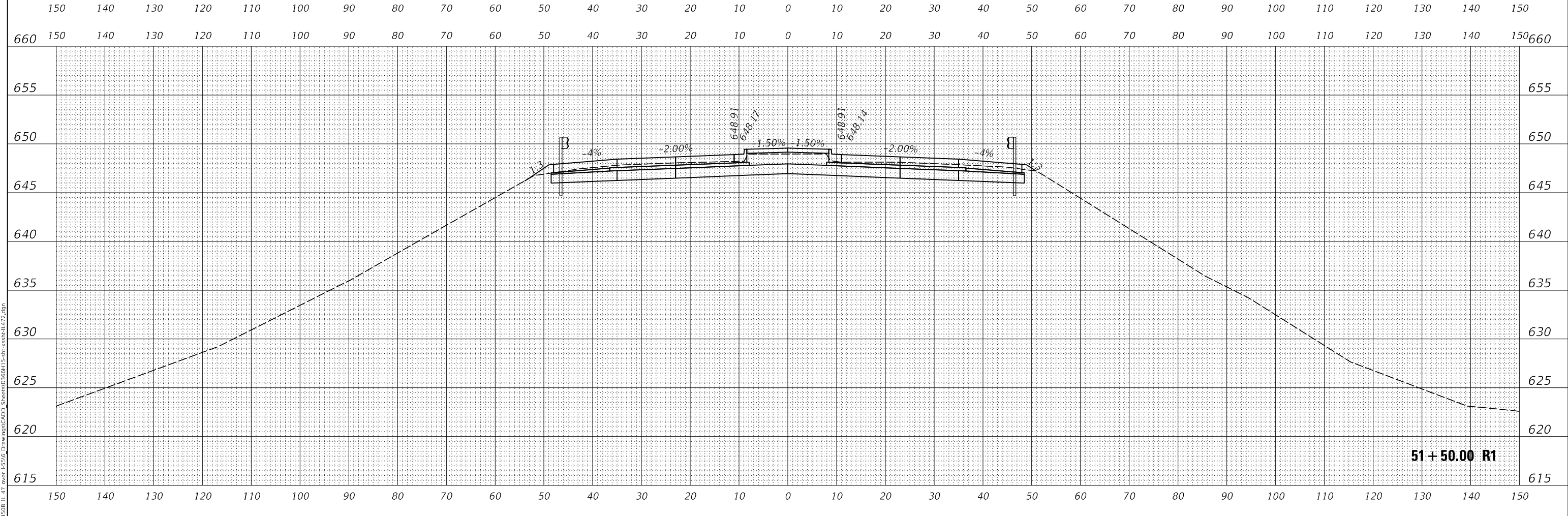
F.A.I. RTE. 55	SECTION [(32-3)HB-1]HBK	COUNTY GRUNDY	TOTAL SHEETS 173	SHEET NO. 153
			CONTRACT NO. 66H15	
ILLINOIS FED. AID PROJECT				

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



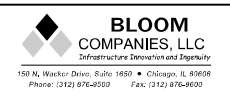
52+00.00 R1

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



51+50.00 R1

MODEL: FCI.47
FILE NAME: X:\BMS-1450B_IL_47.dwg



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PLOT SCALE = 20,0000 * / in.	CHECKED - LA	REVISED -
PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

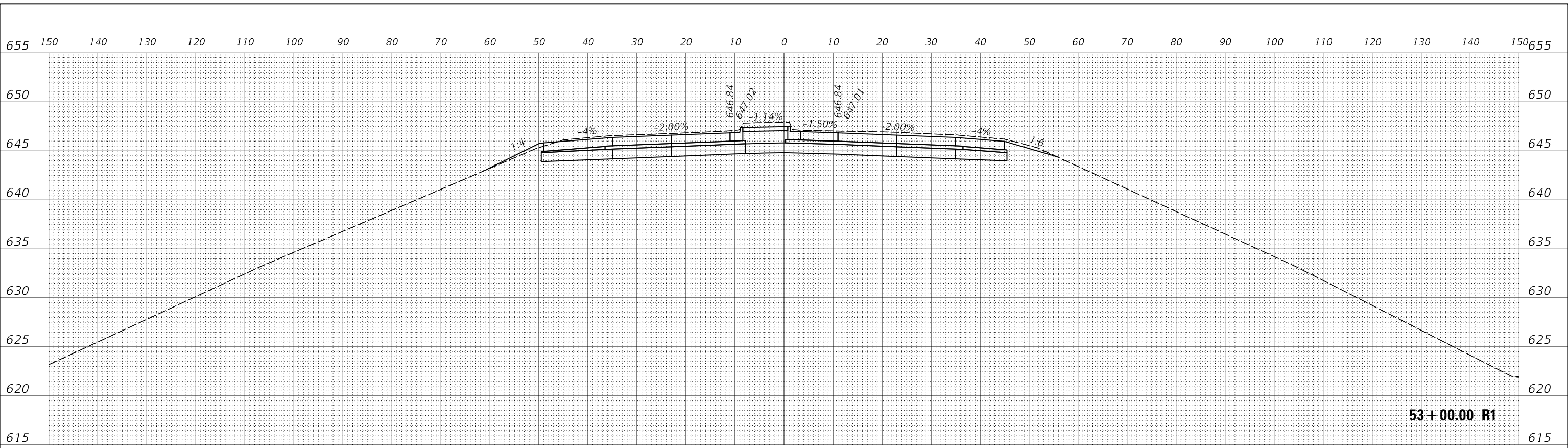
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 51+50.00 R1 TO STA. 52+00.00 R1

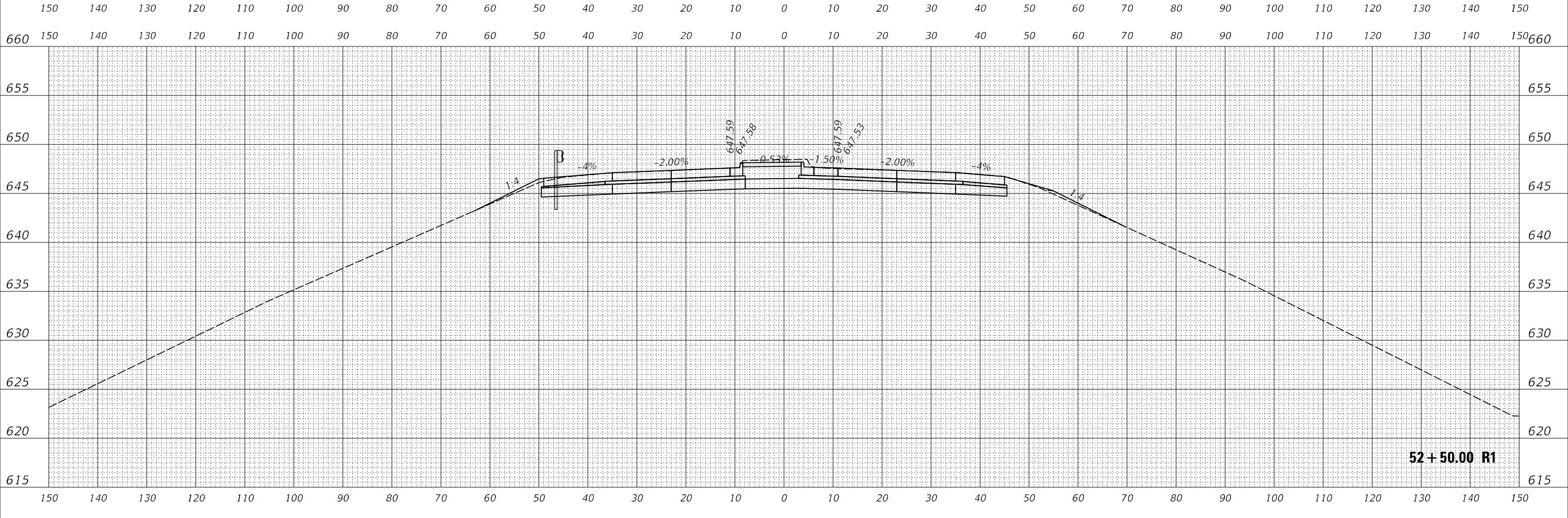
F.A.I. RTE. 55	SECTION [(32-3)HB-1]HBK	COUNTY GRUNDY	TOTAL SHEETS 173	SHEET NO. 154
				CONTRACT NO. 66H15
				ILLINOIS FED. AID PROJECT

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



53+00.00 R1

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



52+50.00 R1

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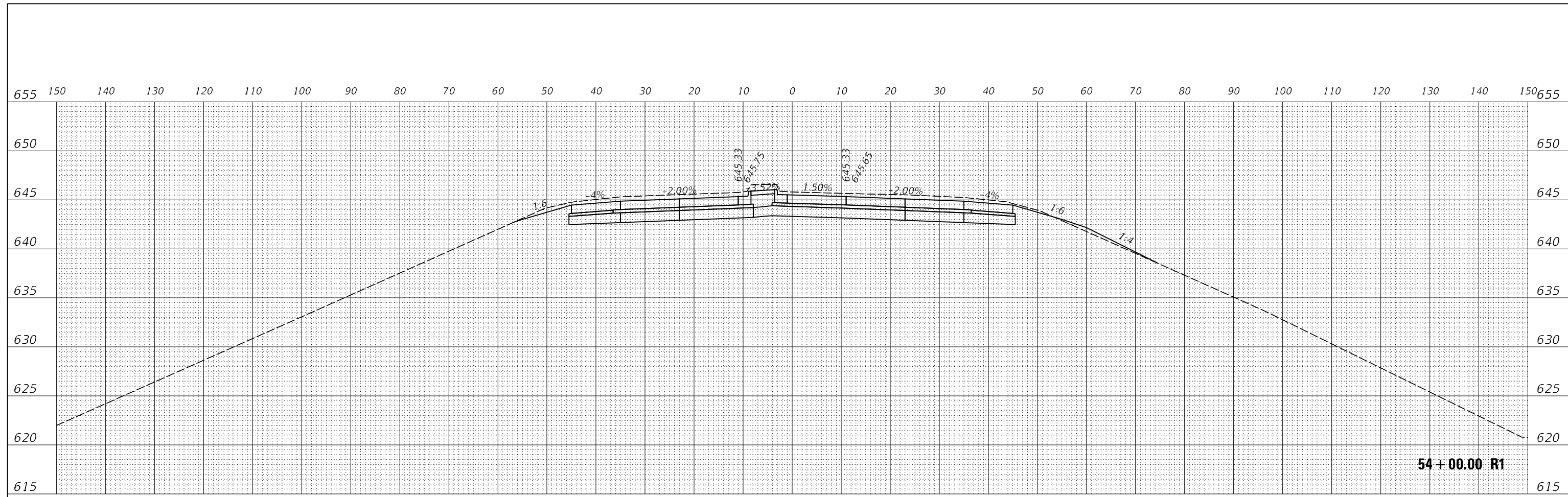
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 52+50.00 R1 TO STA. 53+00.00 R1

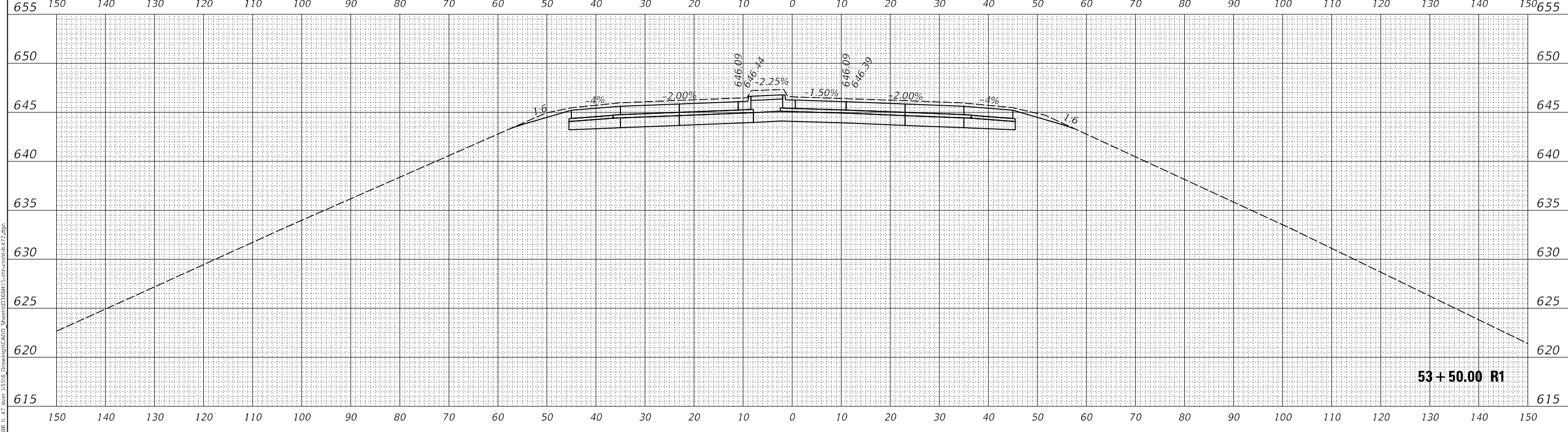
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	155
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY NO.	
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TEMPLATE	
AREAS CHECKED	



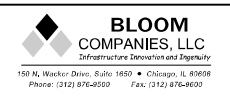
54 + 00.00 R1

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	



53 + 50.00 R1

MODEL: FCI.47
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USER NAME = fyousef	DESIGNED - JB	REVISED -
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PLOT SCALE = 20,0000 * / in.	CHECKED - LA	REVISED -
PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

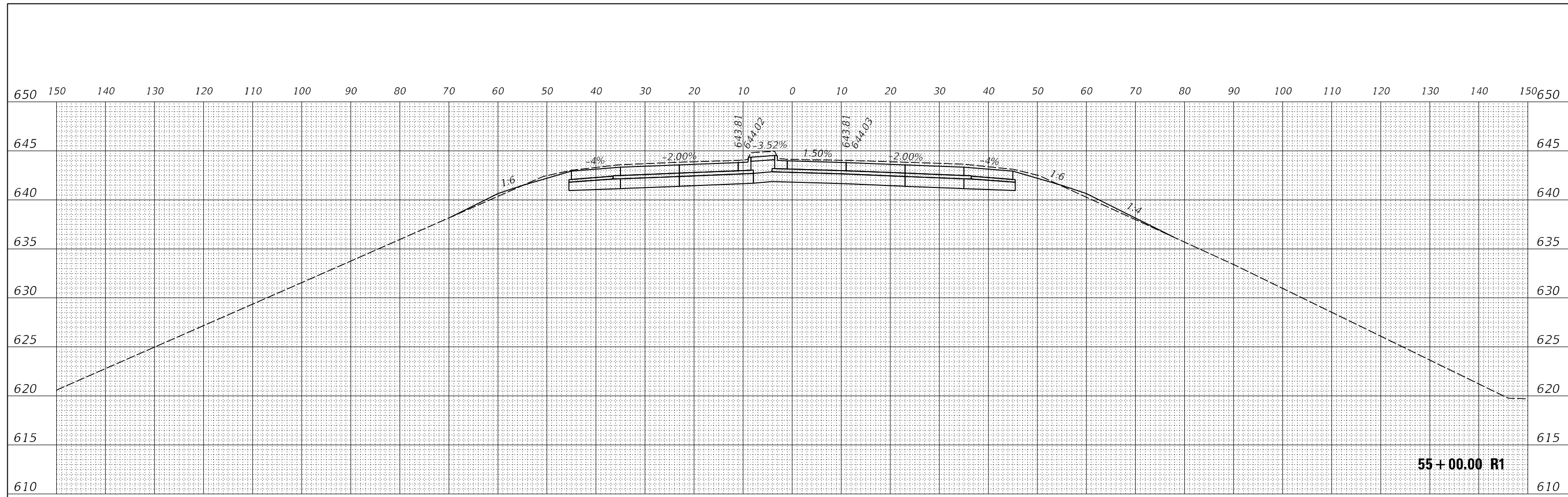
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 53+50.00 R1 TO STA. 54+00.00 R1

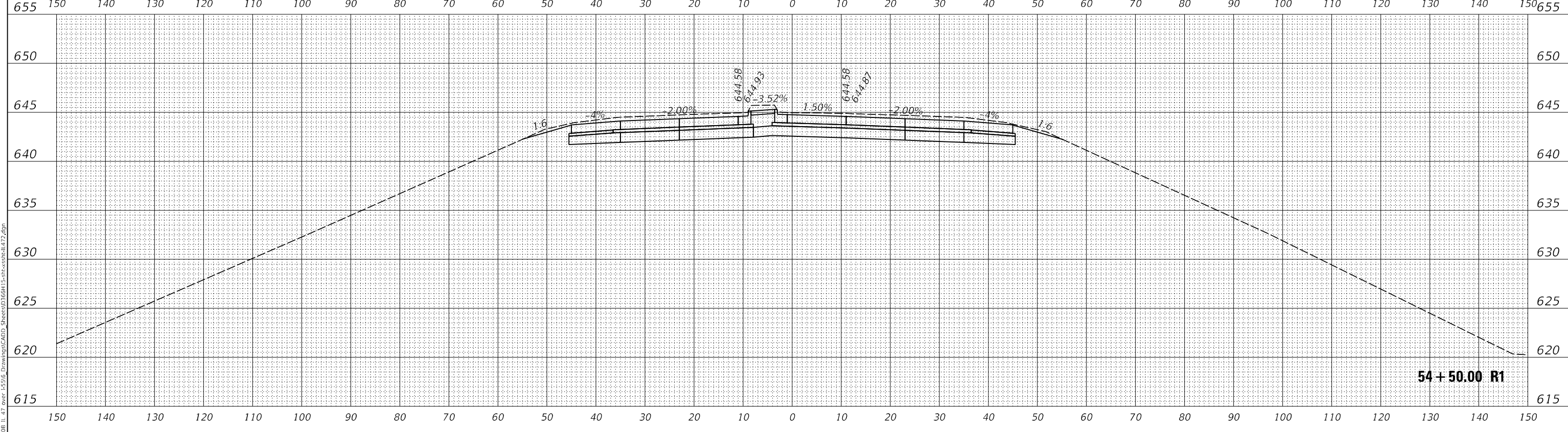
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	156
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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



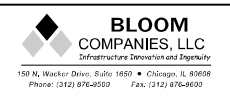
55 + 00.00 R1

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



54 + 50.00 R1

MODEL: FCI.47
FILE NAME: X:\BMS-14508_IL_47.dwg



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	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

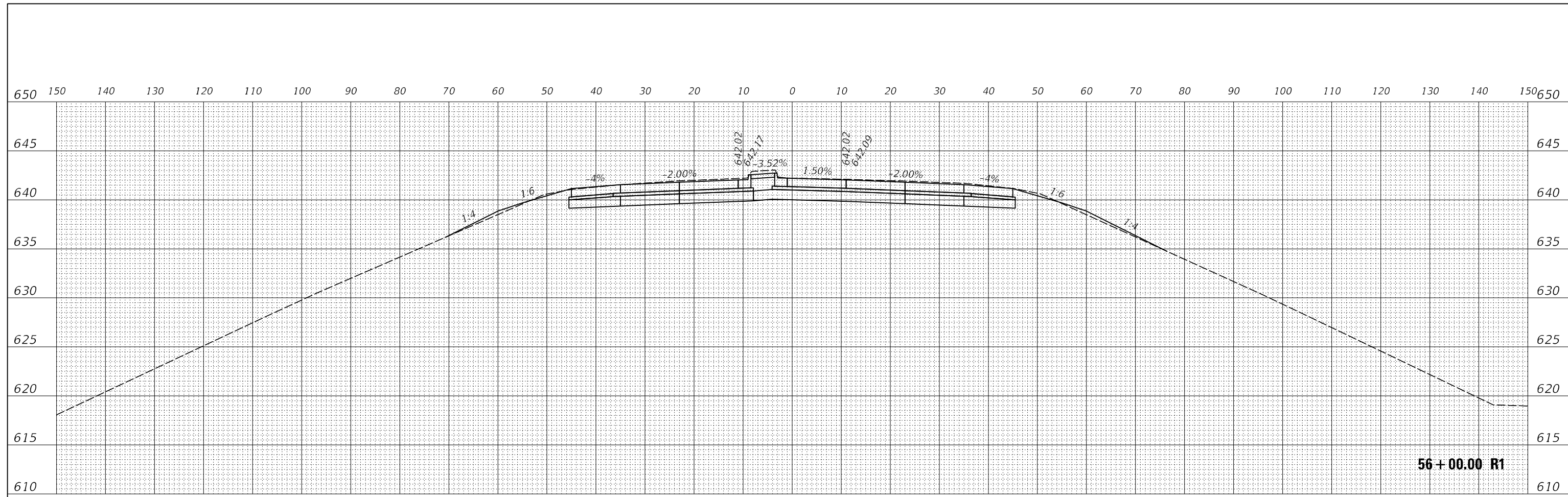
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 54+50.00 R1 TO STA. 55+00.00 R1

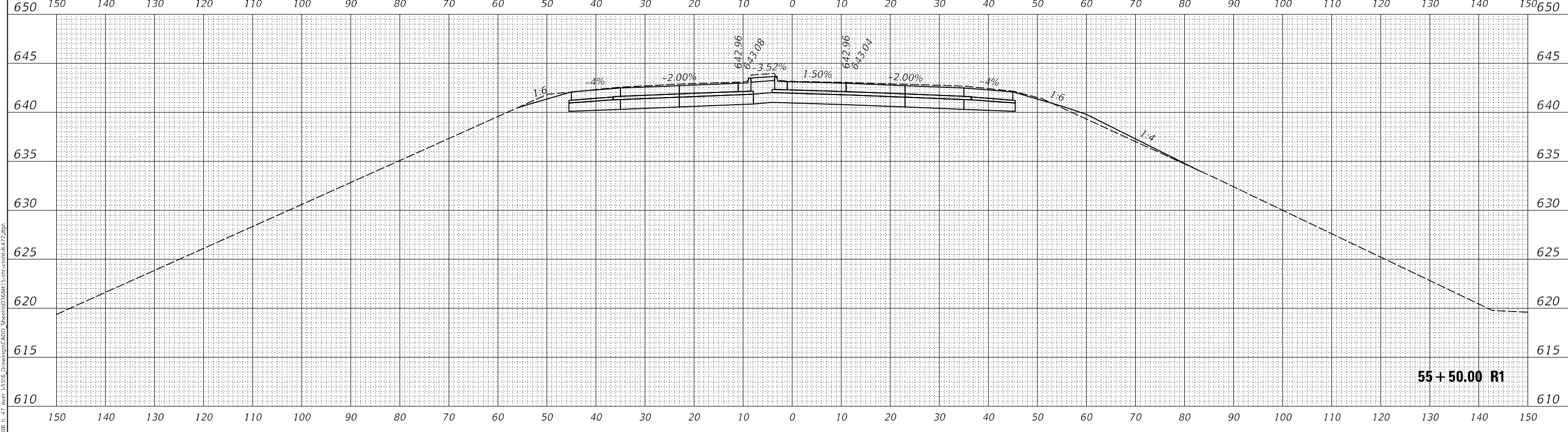
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	157
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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



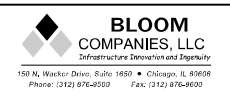
56 + 00.00 R1

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



55 + 50.00 R1

MODEL: FACP1.47
FILE NAME: X:\BMS-1450B_IL_47.dwg



USER NAME = fyousef	DESIGNED - JB	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000 * / in.	CHECKED - LA	REVISED -
PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

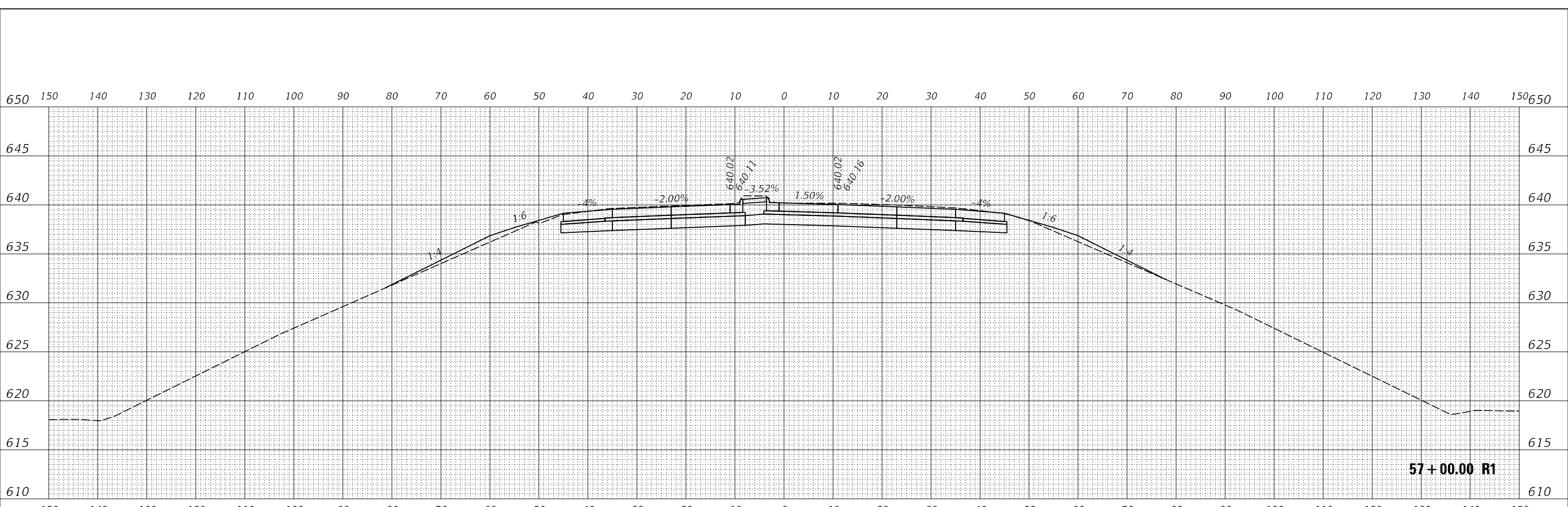
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 55+50.00 R1 TO STA. 56+00.00 R1

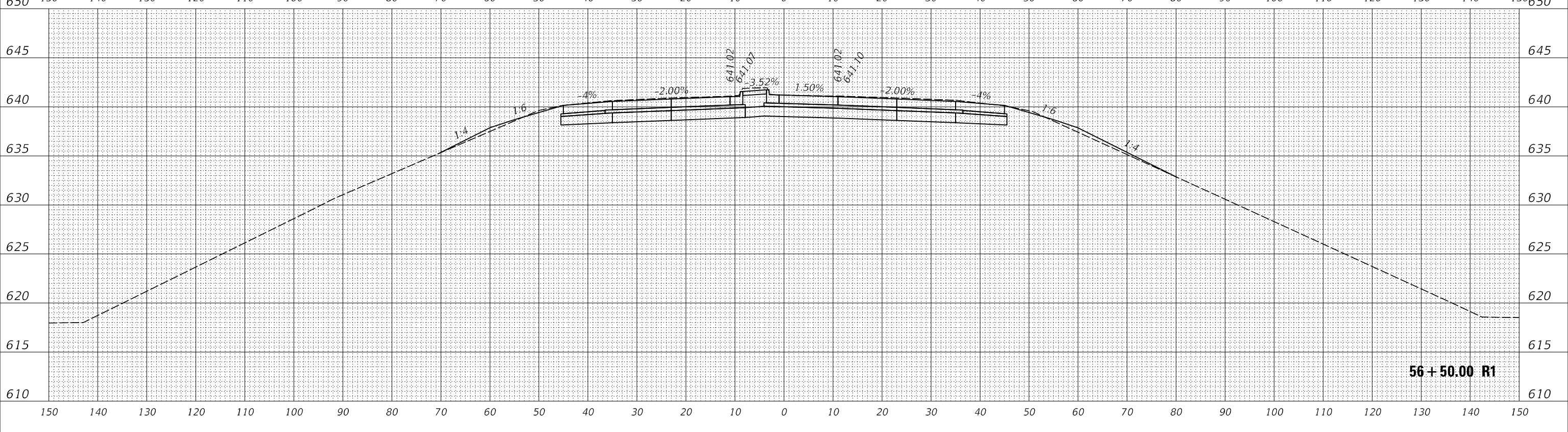
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	158
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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



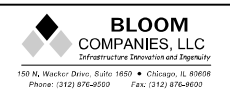
57 + 00.00 R1

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



56 + 50.00 R1

MODEL: FCI.47
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USER NAME	= fyousef	DESIGNED	- JB	REVISED	-
		DRAWN	- JB	REVISED	-
PLOT SCALE	= 20,0000 * / in.	CHECKED	- LA	REVISED	-
PLOT DATE	= 10/7/2020	DATE	- 05/12/20	REVISED	-

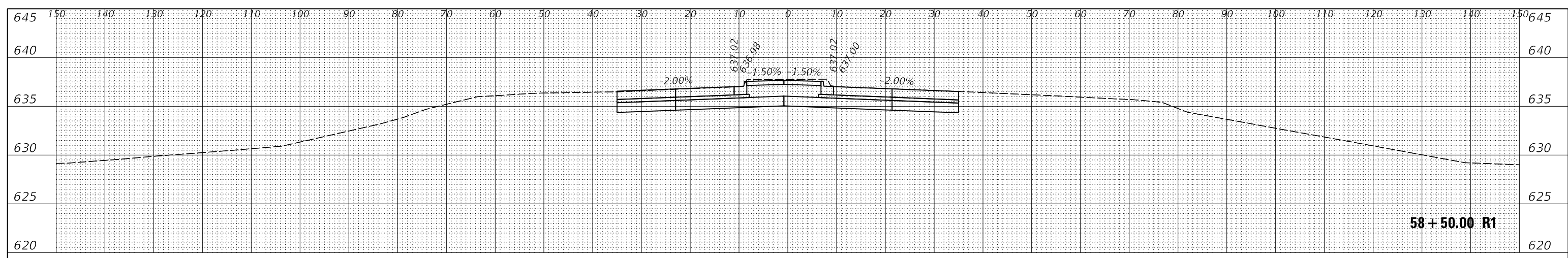
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 56+50.00 R1 TO STA. 57+00.00 R1

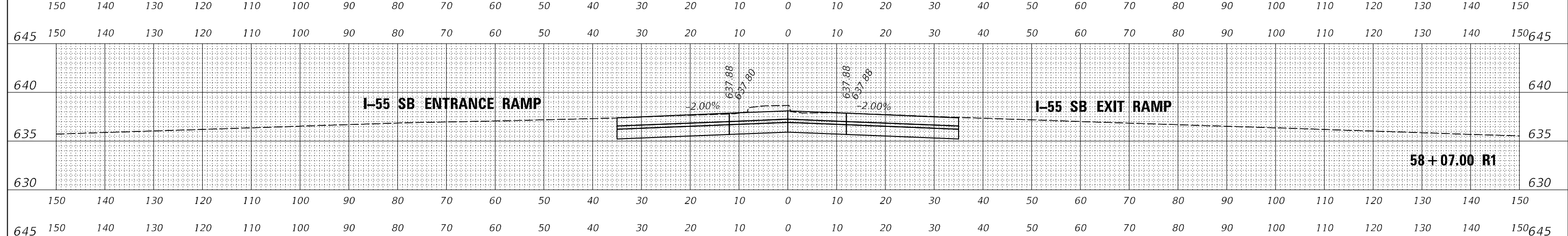
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	159
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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

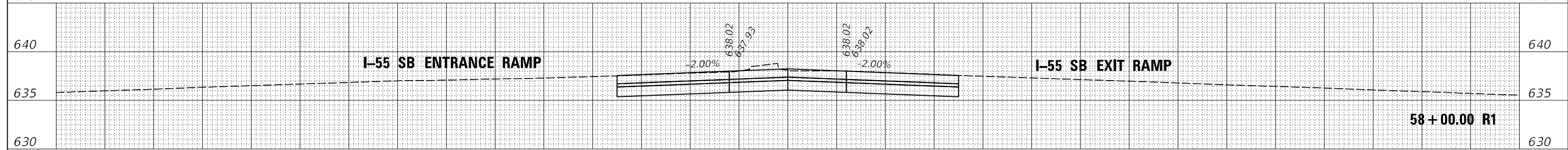


58 + 50.00 R1

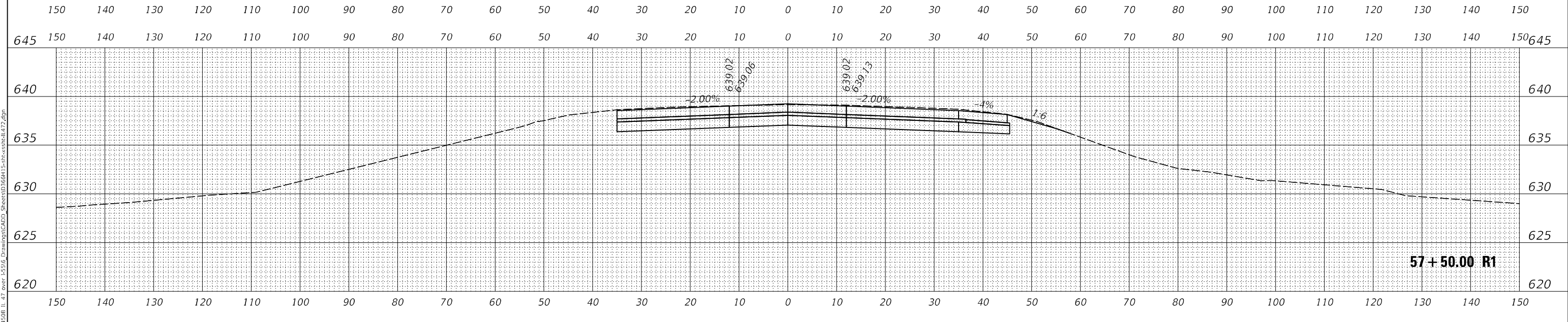
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



58 + 07.00 R1

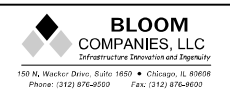


58 + 00.00 R1



57 + 50.00 R1

MODEL: FCI.47
FILE NAME: X:\BMS-1450B_IL_47.dwg



USER NAME = fyousef	DESIGNED - JB	REVISED -
	DRAWN - JB	REVISED -
PLOT SCALE = 20,0000' / in.	CHECKED - LA	REVISED -
PLOT DATE = 10/7/2020	DATE - 05/12/20	REVISED -

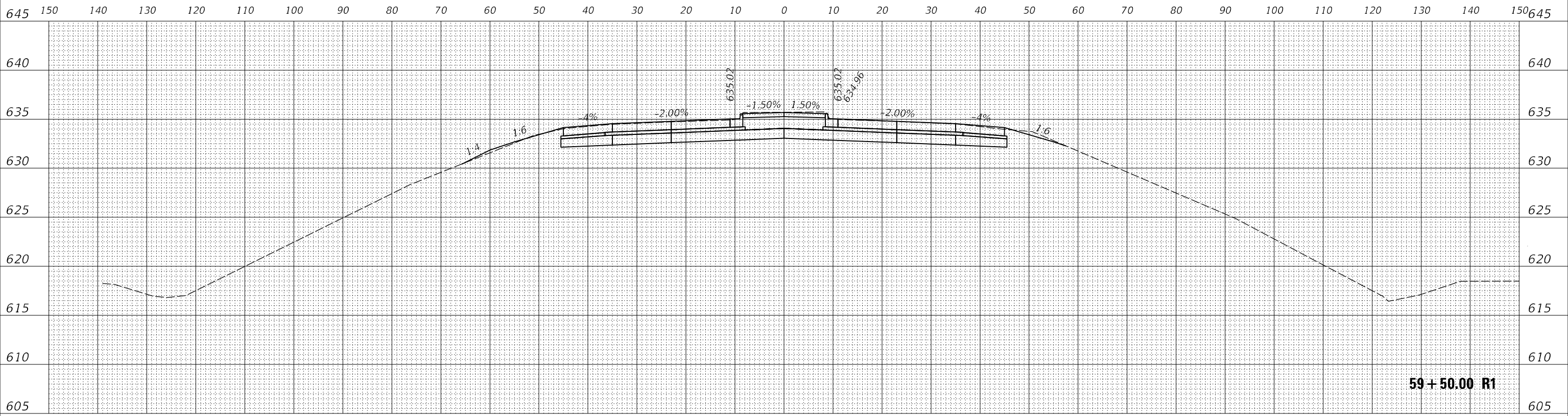
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

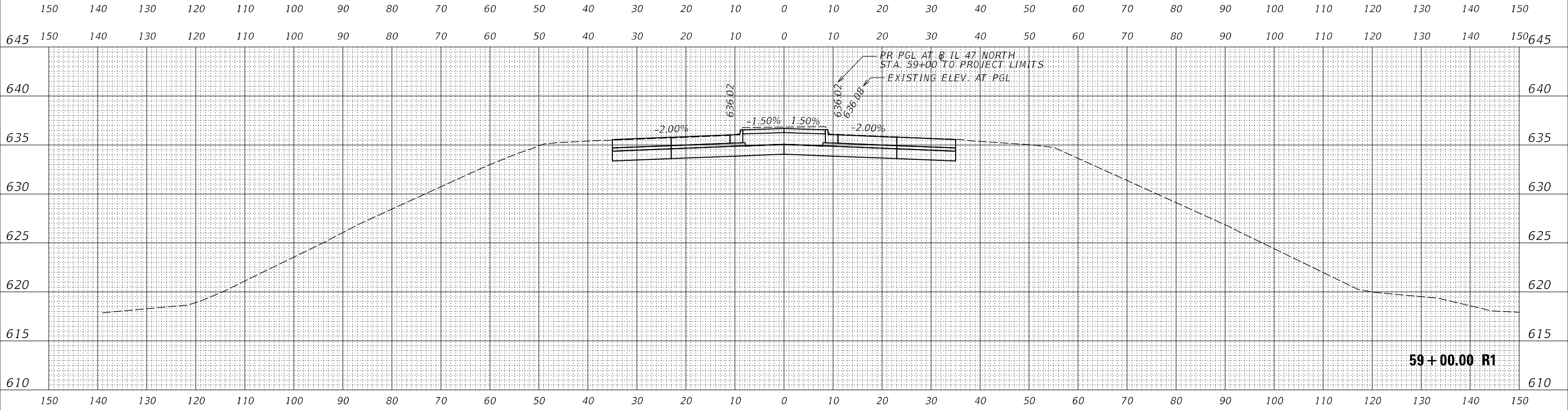
SCALE: 1"=10' SHEET OF SHEETS STA. 57+50.00 R1 TO STA. 58+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	160
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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



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



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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

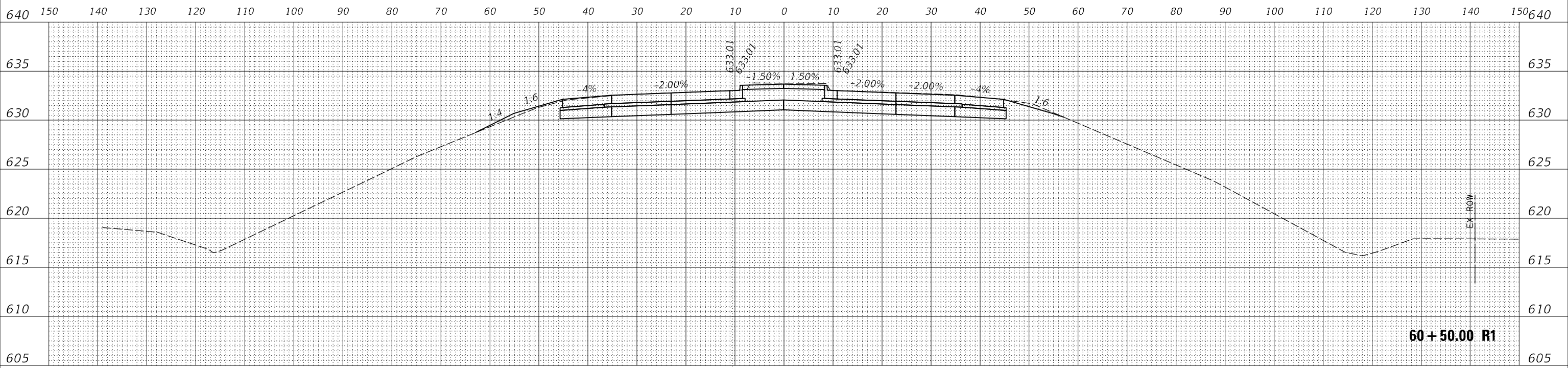
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 59+00.00 R1 TO STA. 59+50.00 R1

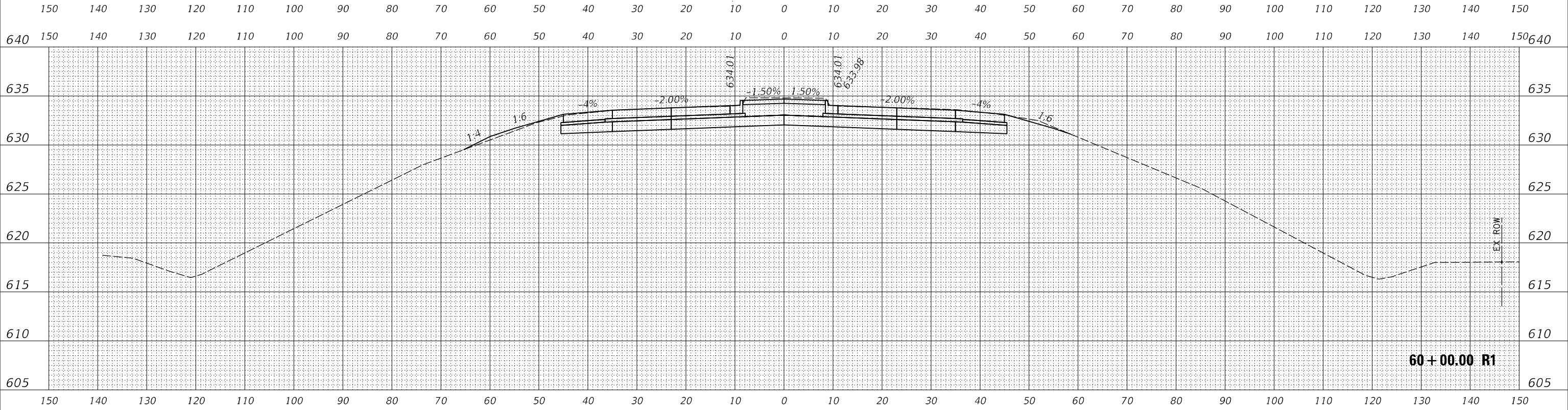
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	161
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

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



60+50.00 R1

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



60+00.00 R1

MODEL: F:\C14711
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USER NAME	= fyousef
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DRAWN	- JB
CHECKED	- LA
DATE	- 05/15/20
REVISIONS	
REVISIONS	
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REVISIONS	

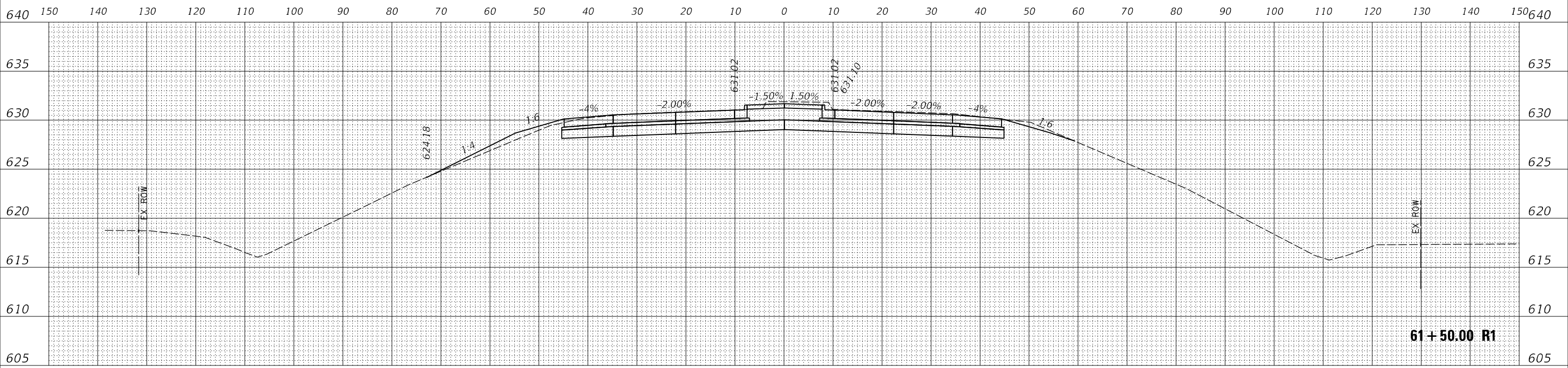
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 60+00.00 R1 TO STA. 60+50.00 R1

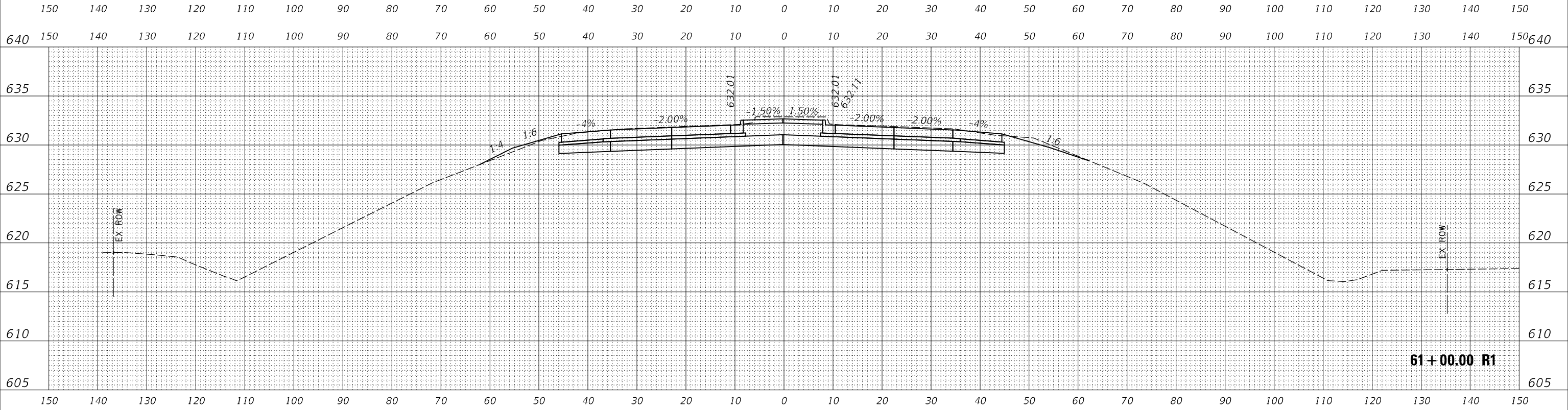
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	162
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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



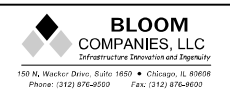
61+50.00 R1

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



61+00.00 R1

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	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

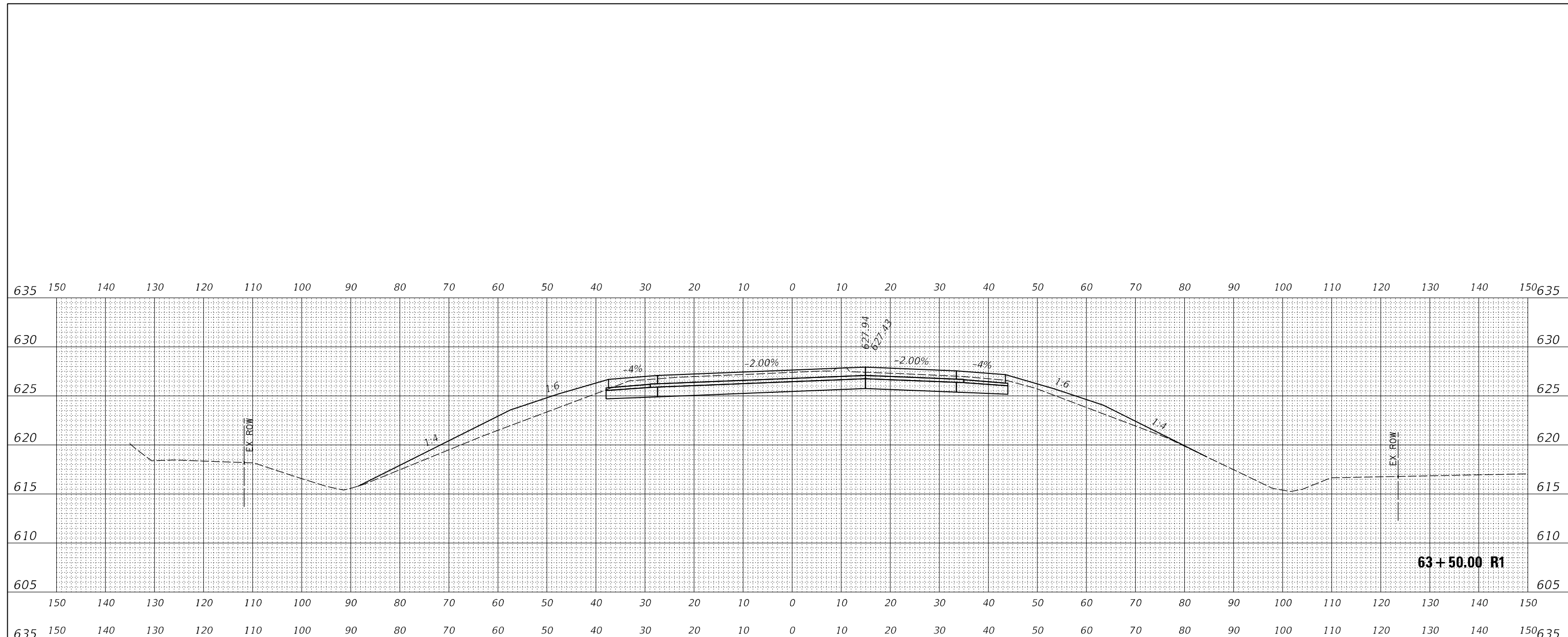
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

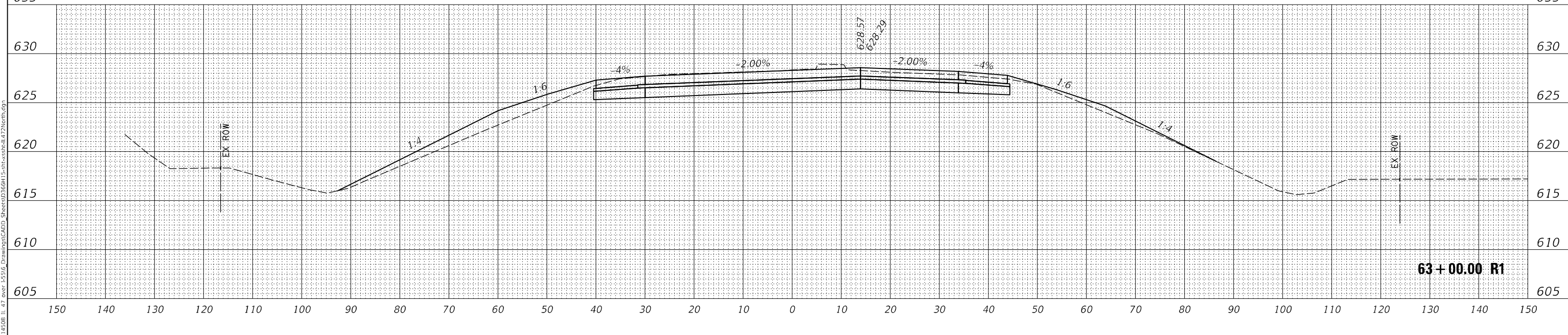
SCALE: 1"=10' SHEET OF SHEETS STA. 61+00.00 R1 TO STA. 61+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	163
				CONTRACT NO. 66H15
				ILLINOIS FED. AID PROJECT

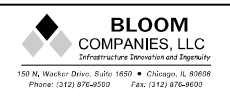
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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



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USER NAME = fyousef	DESIGNED - JB	REVISED -
	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

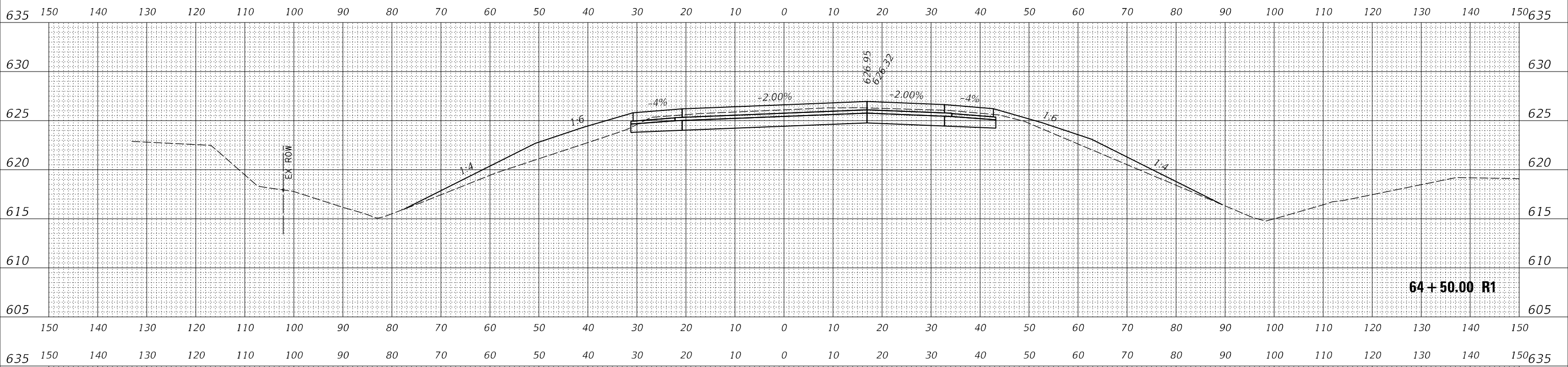
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

SCALE: 1"=10' SHEET OF SHEETS STA. 63+00.00 R1 TO STA. 63+50.00 R1

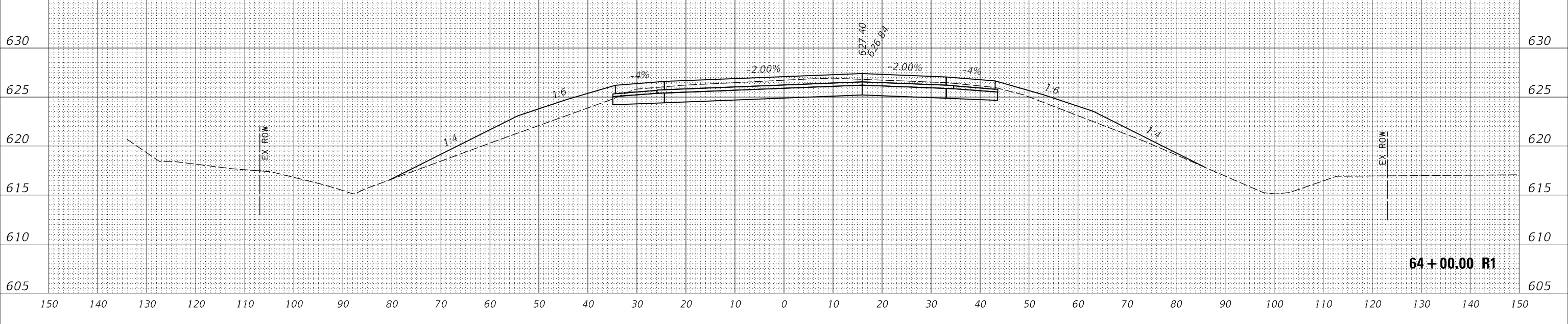
F.A.I. RTE. 55	SECTION [(32-3)HB-1]HBK	COUNTY GRUNDY	TOTAL SHEETS 173	SHEET NO. 165
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
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NO.	



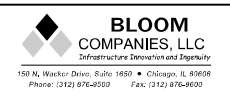
64 + 50.00 R1

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
AREAS CHECKED	
NO.	



64 + 00.00 R1

MODEL: FCI:47.1
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Sheet: 0360115-5-15-2015-11-14-17:20:00.dwg



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	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

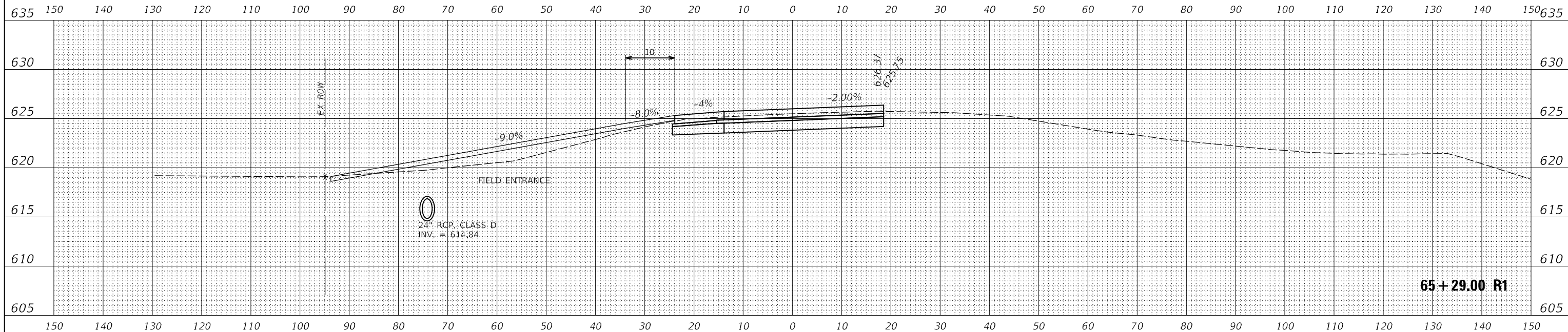
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAP 326 (IL 47) CROSS SECTIONS

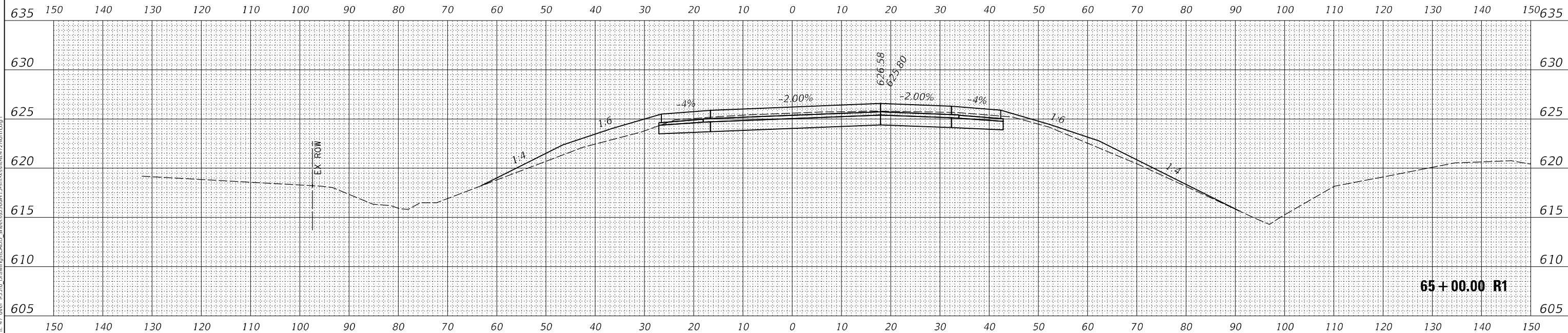
SCALE: 1"=10' SHEET OF SHEETS STA. 64+00.00 R1 TO STA. 64+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	166
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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



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



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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

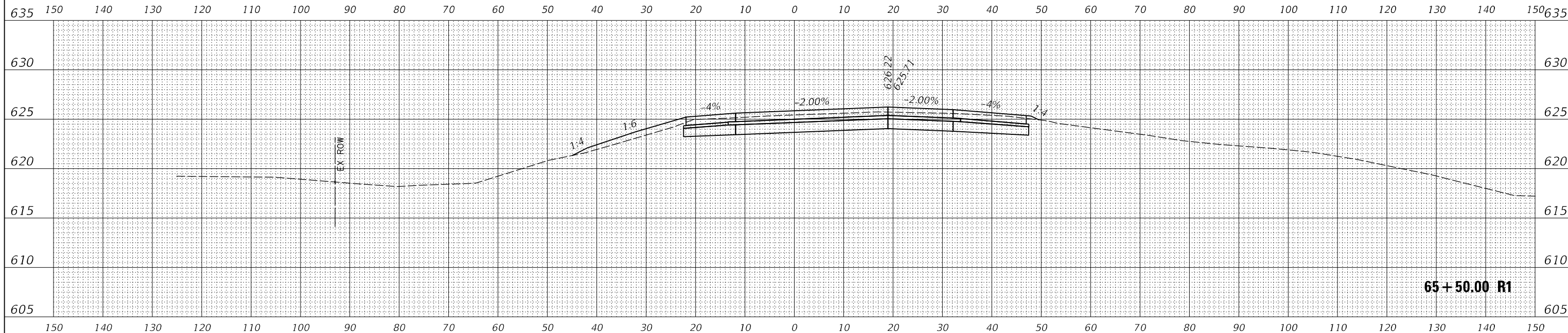
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

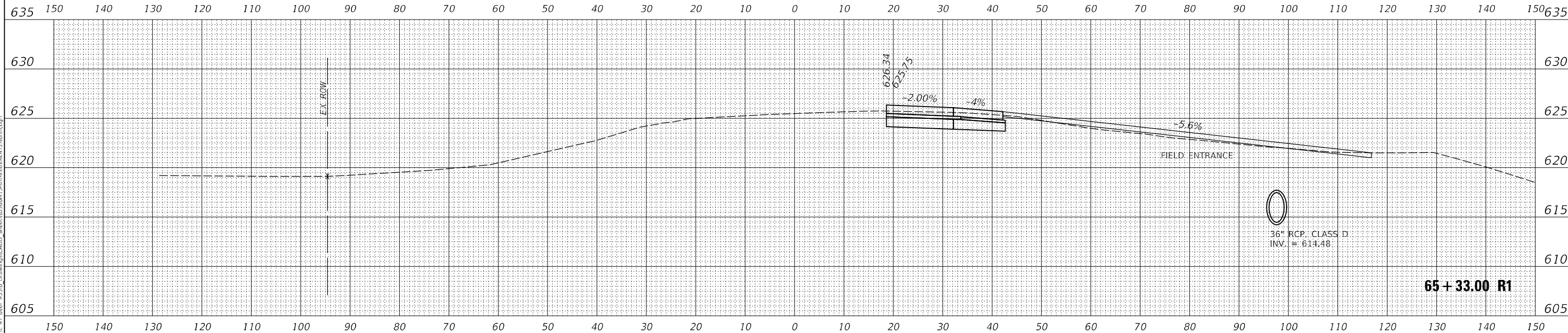
SCALE: 1"=10' SHEET OF SHEETS STA. 65+00.00 R1 TO STA. 65+29.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	167
				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

DATE	
BY	
FINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
AREAS CHECKED	
NO.	



DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
NOTED	
PLOTTED	
AREAS CHECKED	
NO.	



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	DATE - 03/11/19	REVISED -

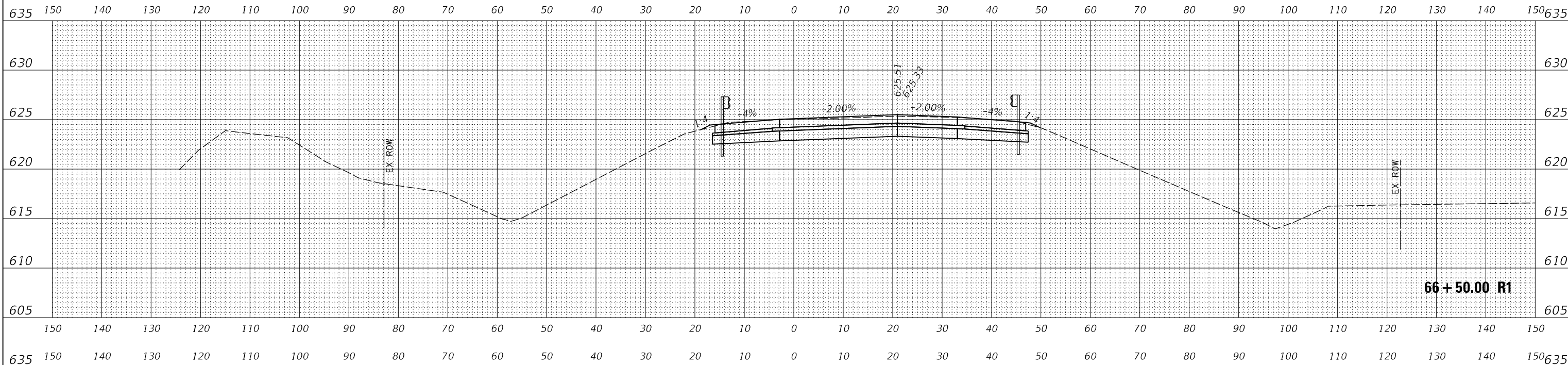
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

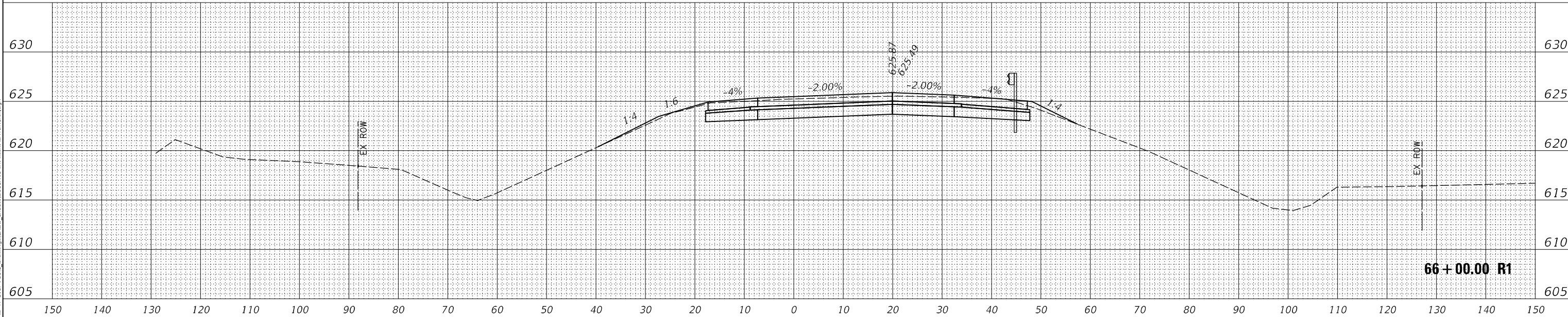
SCALE: 1"=10' SHEET OF SHEETS STA. 65+33.00 R1 TO STA. 65+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	168
				CONTRACT NO. 66H15
				ILLINOIS FED. AID PROJECT

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



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



MODEL: FCI4711
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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

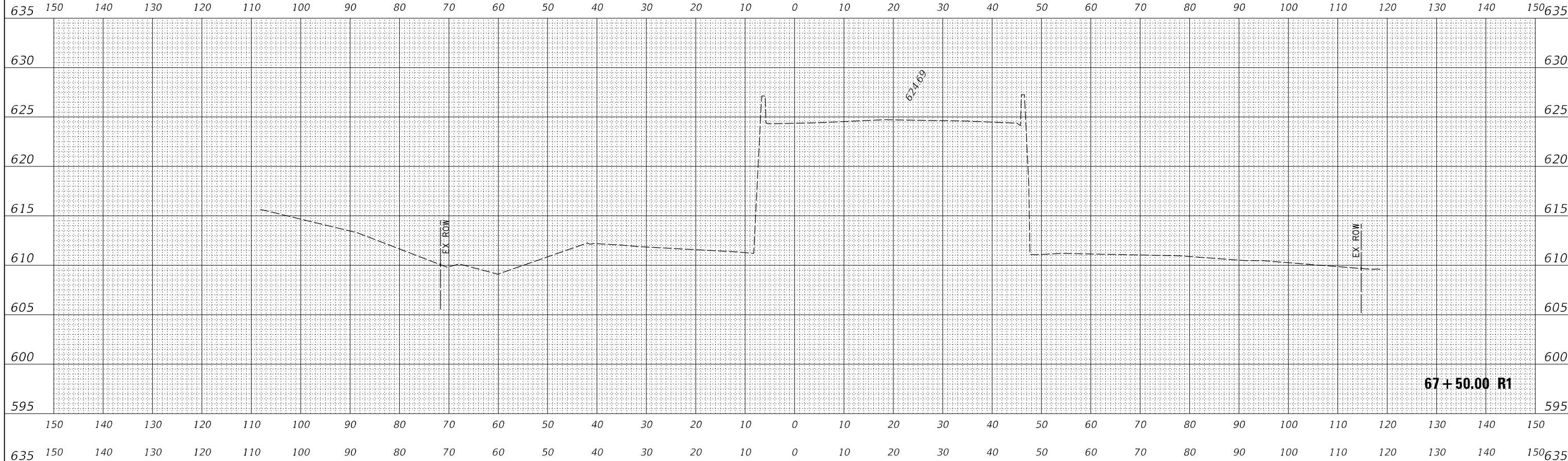
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

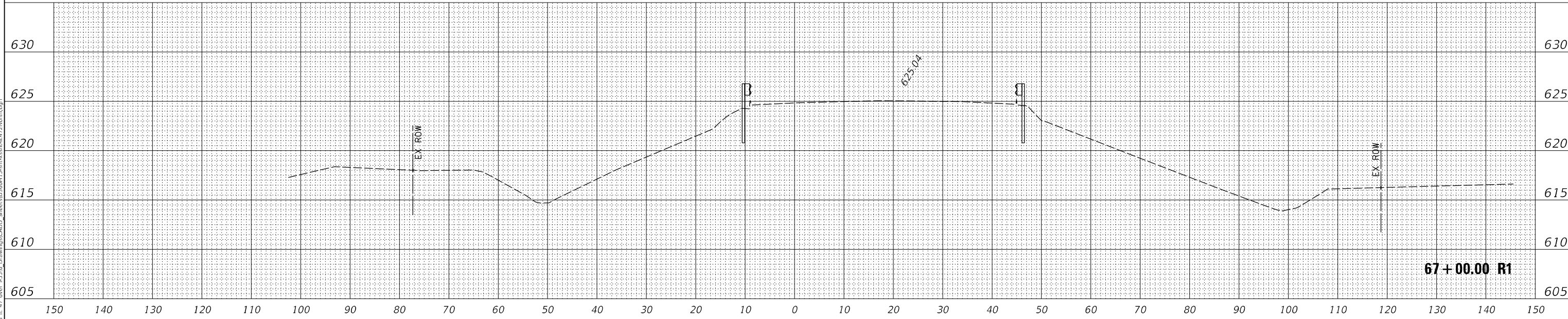
SCALE: 1"=10' SHEET OF SHEETS STA. 66+00.00 R1 TO STA. 66+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 66H15
		ILLINOIS	FED. AID PROJECT	

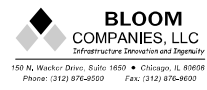
DATE	
BY	
FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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



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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

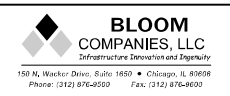
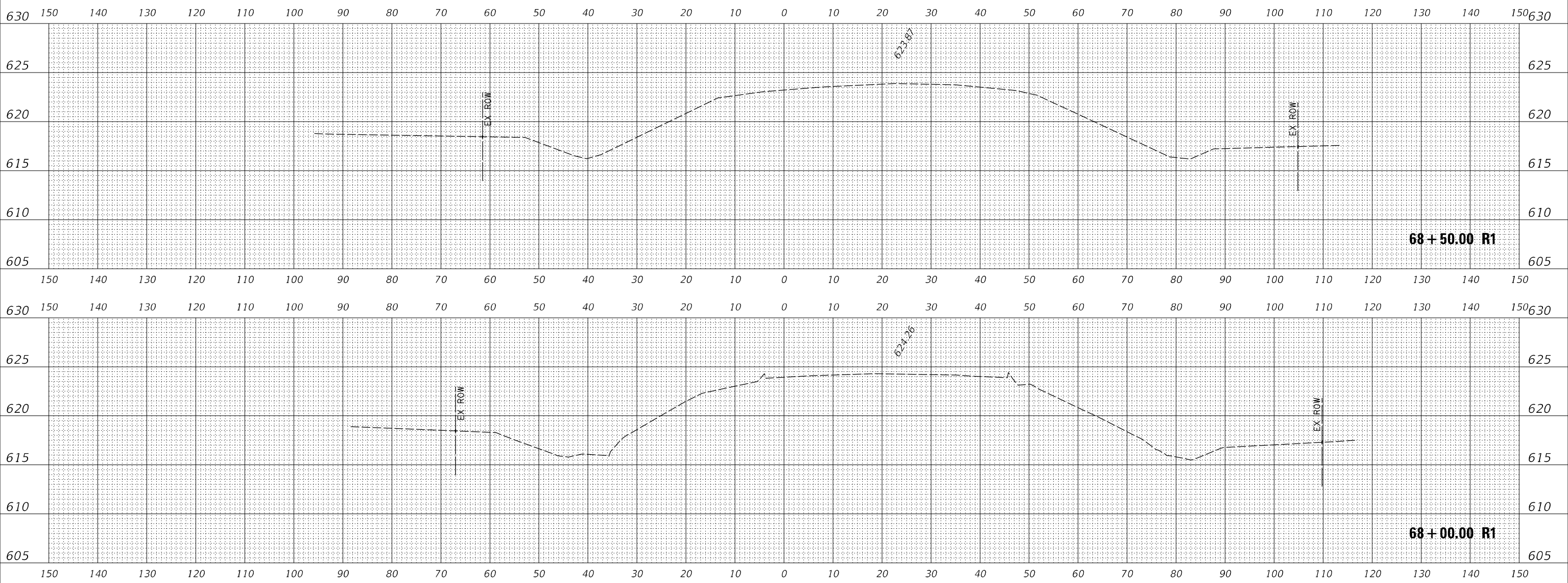
SCALE: 1"=10' SHEET OF SHEETS STA. 67+00.00 R1 TO STA. 67+50.00 R1

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	170
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = fyousef	DESIGNED - JB	REVISED -
	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS

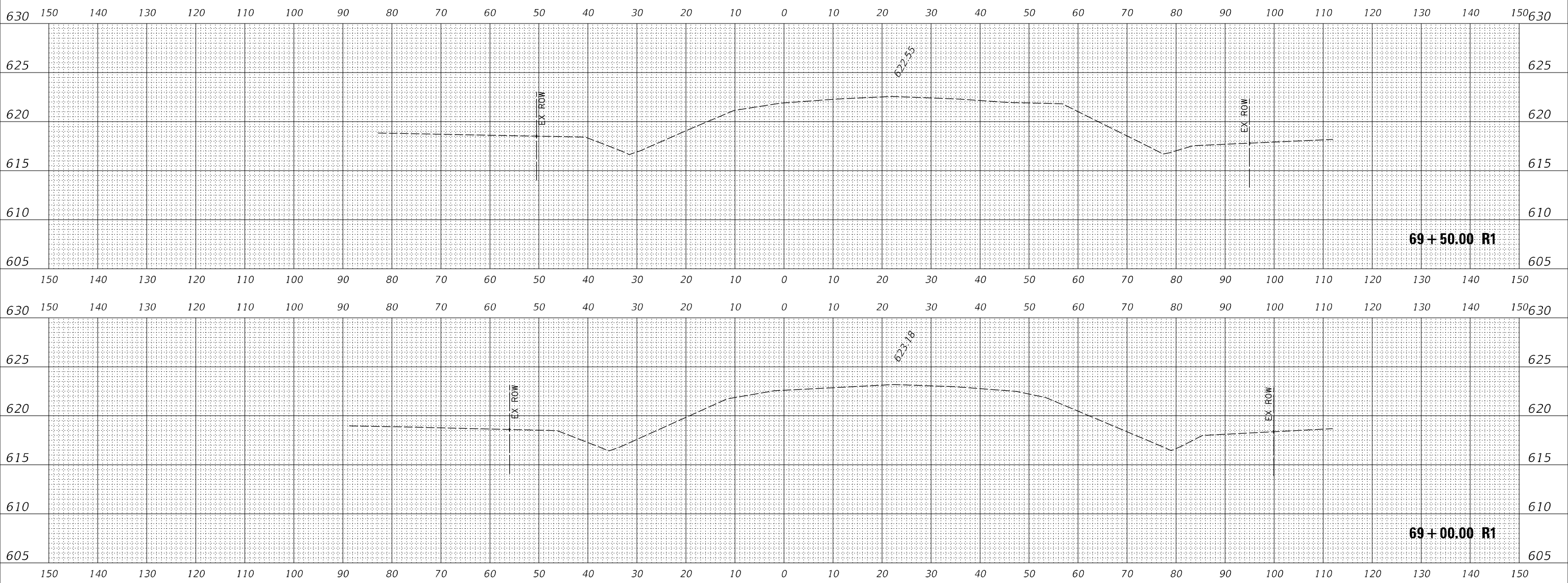
SCALE: 1"=10' SHEET OF SHEETS STA. 68+00.00 R1 TO STA. 68+50.00 R1

F.A.I. RTE. 55	SECTION [(32-3)HB-1]HBK	COUNTY GRUNDY	TOTAL SHEETS 173	SHEET NO. 171
CONTRACT NO. 66H15				
ILLINOIS FED. AID PROJECT				

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

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

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	DRAWN - JB	REVISED -
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PLOT DATE = 10/7/2020	DATE - 05/15/20	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

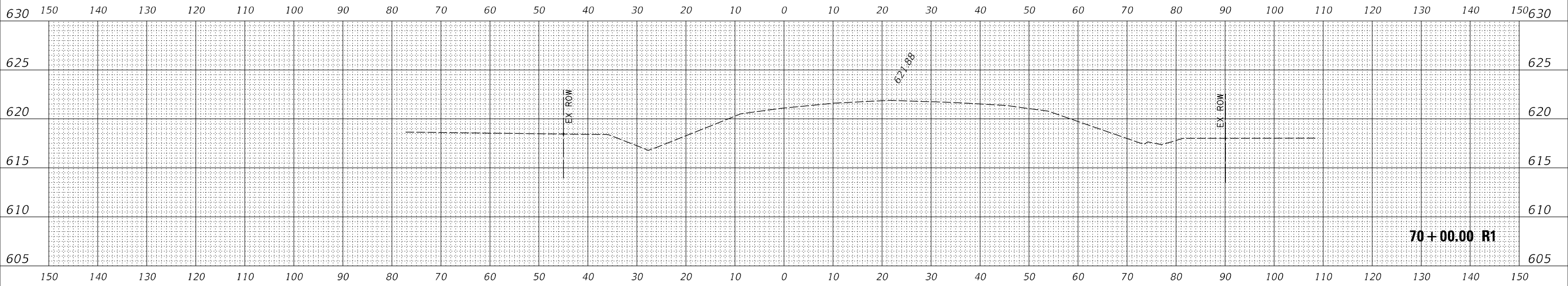
FAP 326 (IL 47) CROSS SECTIONS			
SCALE: 1"=10'	SHEET	OF	SHEETS
STA. 69+00.00 R1 TO STA. 69+50.00 R1			

F.A.I. RTE. 55	SECTION [(32-3)HB-1]HBK	COUNTY GRUNDY	TOTAL SHEETS 173	SHEET NO. 172
CONTRACT NO. 66H15				
ILLINOIS		FED. AID PROJECT		

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

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

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USER NAME = fyousef	DESIGNED - JB	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - JB	REVISED -
PLOT DATE = 10/7/2020	CHECKED - LA	REVISED -
	DATE - 05/15/20	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

FAP 326 (IL 47) CROSS SECTIONS			
SCALE: 1"=10'	SHEET	OF	SHEETS
STA. 70+00.00 R1 TO STA. 70+50.00 R1			

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	[(32-3)HB-1]HBK	GRUNDY	173	173
CONTRACT NO. 66H15				
ILLINOIS		FED. AID PROJECT		