

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14BR & 14BR-1	BUREAU	219	101
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 29

32 SHEETS

Contract No. 66731

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG

Page 1 of 2

Date 8/15/94

ROUTE FA80 DESCRIPTION I-80 over Spring Creek, 1.7 mi E of IL89; Elevation @ Bridge CL = 100.0 LOGGED BY C. Jenkins D2

SECTION 6-HB-1 LOCATION Hill Twp, SEC. 14, TWP. 16N, R9G. 1E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. Station 400+20

BORING NO. B-1 EBL Station 399+17.5

Offset 37.00 FT LL of CL

Ground Surface Elev. 95.90 ft (7) (1/6") (8sf) (2)

D E P T H ft	B L U D G E	U L T I M A T E	M O D U L U S I T Y	S U R F A C E E L E V. ft	D E P T H ft	B L U D G E	U L T I M A T E	M O D U L U S I T Y	S U R F A C E E L E V. ft
0.8	E	S	13	70.90	13	6.1	12.0		
6.0				83.40					
3.0				77.90					
6.0				90.40					
3.0				88.40					
8.0				68.40					
4.0				65.90					
3.0									
6.0									
2.3									
1.6									
1.6									
11.0									
10.0									
13.0									
5.0									
6.0									
12.0									
6.0									
8.0									
12.0									

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)

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG

Page 2 of 2

Date 8/15/94

ROUTE FA80 DESCRIPTION I-80 over Spring Creek, 1.7 mi E of IL89; Elevation @ Bridge CL = 100.0 LOGGED BY C. Jenkins D2

SECTION 6-HB-1 LOCATION Hill Twp, SEC. 14, TWP. 16N, R9G. 1E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. Station 400+20

BORING NO. B-1 EBL Station 399+17.5

Offset 37.00 FT LL of CL

Ground Surface Elev. 95.90 ft (7) (1/6") (8sf) (2)

D E P T H ft	B L U D G E	U L T I M A T E	M O D U L U S I T Y	S U R F A C E E L E V. ft	D E P T H ft	B L U D G E	U L T I M A T E	M O D U L U S I T Y	S U R F A C E E L E V. ft
14.0				70.90	14	2.7	24.0		
22.0				33.40	22	3.3	22.0		
29.0				30.40	29	2.9	21.0		
34.0				27.90	34	3.3	22.0		
35.0				30.40	35				
38.0				50.40	38	2.9	21.0		
28.0				30.40	28	3.5	20.0		
32.0				27.90	32				
39.0				27.90	39	3.5	20.0		
42.0				27.90	42				
21.0				42.90	21	4.6	20.0		
15.0				42.90	15	2.3	17.0		
23.0				40.40	23	6.0	17.0		
22.0				40.40	22				
12.0				40.40	12	6.8	25.0		
23.0				40.40	23				
27.0				40.40	27				
17.0				40.40	17	7.7	22.0		
31.0				40.40	31				
37.0				40.40	37				
35.0				40.40	35				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Bulge, (S)-Shear, (P)-Penetrometer
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Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG

Page 1 of 2

Date 8/22/94

ROUTE FA80 DESCRIPTION I-80 over Spring Creek, 1.7 mi E of IL89; Elevation @ Bridge CL = 100.0 LOGGED BY C. Jenkins D2

SECTION 6-HB-1 LOCATION Hill Twp, SEC. 14, TWP. 16N, R9G. 1E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. Station 400+20

BORING NO. B-2 EBL Station 401+20

Offset 39.50 FT LL of CL

Ground Surface Elev. 100.90 ft (7) (1/6") (8sf) (2)

D E P T H ft	B L U D G E	U L T I M A T E	M O D U L U S I T Y	S U R F A C E E L E V. ft	D E P T H ft	B L U D G E	U L T I M A T E	M O D U L U S I T Y	S U R F A C E E L E V. ft
0.8				70.90	0.8	0.9	14.0		
7.0				83.40	7	2.1	15.0		
7.0				90.40	7				
7.0				88.40	7				
7.0				75.90	7				
4.0				73.90	4	1.2	18.0		
4.0				73.90	4				
1.0				73.90	1				
3.0				73.90	3	1.6	14.0		
8.0				73.90	8				
3.0				73.90	3				
6.0				73.90	6	1.2	18.0		
8.0				73.90	8				
5.0				73.90	5				
11.0				73.90	11	1.5	14.0		
11.0				73.90	11				
6.0				66.40	6				
9.0				66.40	9	2.0	21.0		
9.0				66.40	9				
7.0				66.40	7				
9.0				66.40	9	1.9	24.0		
11.0				66.40	11				
6.0				66.40	6				
6.0				66.40	6				
7.0				66.40	7				
9.0				66.40	9				
11.0				66.40	11				

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)

BORING LOGS
F.A.I. RTE. 80 - SEC. 14BR & 14BR-1
BUREAU COUNTY
STATION 400+22.07
STRUCTURE NO. 006-0165 (E.B.)
STRUCTURE NO. 006-0166 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14BR & 14BR-1	BUREAU	219	103
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract No. 66731

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG

Page 1 of 2
Date 9/15/94

ROUTE FA80 DESCRIPTION I-80 over Spring Creek, 1.7 mi E of IL89; Elevation @ Bridge CL = 100.0 LOGGED BY J. Robertson, DP

SECTION 6-HB-1 LOCATION Hill Twp, SEC. 14, TWP. 36N, R9E, J1E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. Station 400+20	D E P T H S	B L O W S	U N D E R S T R U C T U R E	M O D E L	Surface Water Elev. 73.0 ft Stream Bed Elev. ft	D E P T H S	B L O W S	U N D E R S T R U C T U R E	M O D E L
BORING NO. B-4 EBL Station 400+49 Offset 8,000 ft of CL Ground Surface Elev. 100.60 ft	(ft)	(bls)	(bls)	(bls)	Groundwater Elev.: First Encounter 57.5 ft Open Completion 50.3 ft After Hrs. ft	(ft)	(bls)	(bls)	(bls)

Soil Log Description:
Air (continued)
Ground Surface 75.60 ft
No Sample
Loose, gray, Sand and Gravel 73.80 ft
Loose, black, dirty, Sand and Gravel 70.60 ft
Medium, gray, medium, Sand and Gravel 68.00 ft
Stiff to very stiff to hard, gray, Sil 66.00 ft

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)

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG

Page 2 of 2
Date 9/15/94

ROUTE FA80 DESCRIPTION I-80 over Spring Creek, 1.7 mi E of IL89; Elevation @ Bridge CL = 100.0 LOGGED BY J. Robertson, DP

SECTION 6-HB-1 LOCATION Hill Twp, SEC. 14, TWP. 36N, R9E, J1E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. Station 400+20	D E P T H S	B L O W S	U N D E R S T R U C T U R E	M O D E L	Surface Water Elev. 73.0 ft Stream Bed Elev. ft	D E P T H S	B L O W S	U N D E R S T R U C T U R E	M O D E L
BORING NO. B-4 EBL Station 400+49 Offset 8,000 ft of CL Ground Surface Elev. 100.60 ft	(ft)	(bls)	(bls)	(bls)	Groundwater Elev.: First Encounter 57.5 ft Open Completion 50.3 ft After Hrs. ft	(ft)	(bls)	(bls)	(bls)

Soil Log Description:
Stiff to very stiff to hard, gray, Sil (continued)
Hard, gray, Silty Auger refusal @ 66' (continued)
End of Boring 34.60 ft

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)

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG

Page 1 of 2
Date 9/15/94

ROUTE FA80 DESCRIPTION I-80 over Spring Creek, 1.7 mi E of IL89; Elevation @ Bridge CL = 100.0 LOGGED BY J. Robertson, DP

SECTION 6-HB-1 LOCATION Hill Twp, SEC. 14, TWP. 36N, R9E, J1E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. Station 400+20	D E P T H S	B L O W S	U N D E R S T R U C T U R E	M O D E L	Surface Water Elev. 70.90 ft Stream Bed Elev. ft	D E P T H S	B L O W S	U N D E R S T R U C T U R E	M O D E L
BORING NO. B-5 WBL Station 399+90 Offset 8,000 ft of CL Ground Surface Elev. 98.40 ft	(ft)	(bls)	(bls)	(bls)	Groundwater Elev.: First Encounter 30.5 ft Open Completion 48.9 ft After Hrs. ft	(ft)	(bls)	(bls)	(bls)

Soil Log Description:
Air (continued)
Ground Surface 71.90 ft
No Sample
Dense, gray, medium to coarse, Sand and Gravel 69.40 ft
Very stiff, gray, Sil 67.40 ft
Stiff to hard, gray, Sil 64.90 ft

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)

BORING LOGS
F.A.I. RTE. 80 - SEC. 14BR & 14BR-1
BUREAU COUNTY
STATION 400+22.07
STRUCTURE NO. 006-0165 (E.B.)
STRUCTURE NO. 006-0166 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14BR & 14BR-1	BUREAU	219	104
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract No. 66731

SHEET NO. 32
32 SHEETS

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG Page 2 of 2

DATE 9/24/94

ROUTE FA80 DESCRIPTION 1-80 over Spring Creek, 1.7 mi E of IL89; Elevation @ Bridge CL = 100.0 LOGGED BY J. Robertson, D2

SECTION 6-HB-1 LOCATION Hill Twp. SEC. 14, TWP. 16N, R16E, 11E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. 400+20
Station 400+20
BORING NO. B-5 WBL
Station 400+49
Offset 8.00 FT. LT. of CL
Ground Surface Elev. 99.40 ft

DEPTH (ft)	DIAMETER (ft)	SOIL DESCRIPTION	WATER ELEV. (ft)	TEST RESULTS
23	14	Hard, brown, shale with coal seam	70.90	26 5.2 20.0
27	14	Auger refusal @ 62' (continued)		
35	B			
37	12	End of Boring	37.40	
21	12			
27	S			
11				
17	2.1			
30	B			
24	12			
30	B			
49	B			
11				
17	1.8			
23	B			
20				
24	4.5			
35	B			
44.90		Hard, brown, shaly, clay		
14				
17	7.6			
24	B			
42.40		Hard, brown, shale with coal seam		
15				
20	5.3			
27	S			
48.9		Auger refusal @ 62'		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Dulge, S-Shear, P-Penetrometer)
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Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG Page 1 of 2

DATE 9/24/94

ROUTE FA80 DESCRIPTION 1-80 over Spring Creek, 1.7 mi E of IL89; Elevation @ Bridge CL = 100.0 LOGGED BY J. Robertson, D2

SECTION 6-HB-1 LOCATION Hill Twp. SEC. 14, TWP. 16N, R16E, 11E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. 400+20
Station 400+20
BORING NO. B-5 WBL
Station 400+49
Offset 8.00 FT. LT. of CL
Ground Surface Elev. 100.20 ft

DEPTH (ft)	DIAMETER (ft)	SOIL DESCRIPTION	WATER ELEV. (ft)	TEST RESULTS
25		AI* (continued)	73.30	
30				
13				
17	1.8			
20	S			
15				
16	1.7			
17	S			
72.70		Ground Surface No Sample		
70.20				
2		Medium, gray, silty clay with gravel		2 10 22.0
3				3 P
68.20		Stiff to hard, gray, till		
1				
5	2.0			13.0
10	P			
9				
15	5.0			15.0
22	S			
63.20		Medium to very stiff, gray, silty		
24				
28	2.3			20.0
38	S			
40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Dulge, S-Shear, P-Penetrometer)
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Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG Page 2 of 2

DATE 9/24/94

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SECTION 6-HB-1 LOCATION Hill Twp. SEC. 14, TWP. 16N, R16E, 11E

COUNTY Bureau DRILLING METHOD HAMMER TYPE

STRUCT. NO. 400+20
Station 400+20
BORING NO. B-5 WBL
Station 400+49
Offset 8.00 FT. LT. of CL
Ground Surface Elev. 100.20 ft

DEPTH (ft)	DIAMETER (ft)	SOIL DESCRIPTION	WATER ELEV. (ft)	TEST RESULTS
25		AI* (continued)	73.30	
26	2.4			20.0
30	S			
13				
17	1.8			22.0
20	S			
15				
16	1.7			22.0
17	S			
72.70		Ground Surface No Sample		
70.20				
2		Medium, gray, silty clay with gravel		2 10 22.0
3				3 P
68.20		Stiff to hard, gray, till		
1				
5	2.0			13.0
10	P			
9				
15	5.0			15.0
22	S			
63.20		Medium to very stiff, gray, silty		
24				
28	2.3			20.0
38	S			
40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Dulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BORING LOGS
F.A.I. RTE. 80 - SEC. 14BR & 14BR-1
BUREAU COUNTY
STATION 400+22.07
STRUCTURE NO. 006-0165 (E.B.)
STRUCTURE NO. 006-0166 (W.B.)

Bench Mark: Top of SE wingwall of S.N. 006-0036, Sta. 414+27.50, 53' right. Elevation 637.63.

Existing Structures: S.N. 006-0036 (E.B.) built in 1957 as F.A.P. Route 154, Section 14-VB-1.
S.N. 006-0037 (W.B.) built in 1958 as F.A.I. Route 6, Section 6-14-VB-3. Each structure consists of a three span reinforced concrete deck on continuous wide flange steel beams supported by pile bent spill thru abutments and multi-column piers. 167'-2" back-to-back abutments. 35'-8" out-to-out deck. Existing structures to be removed and replaced using cross overs.

No Salvage.

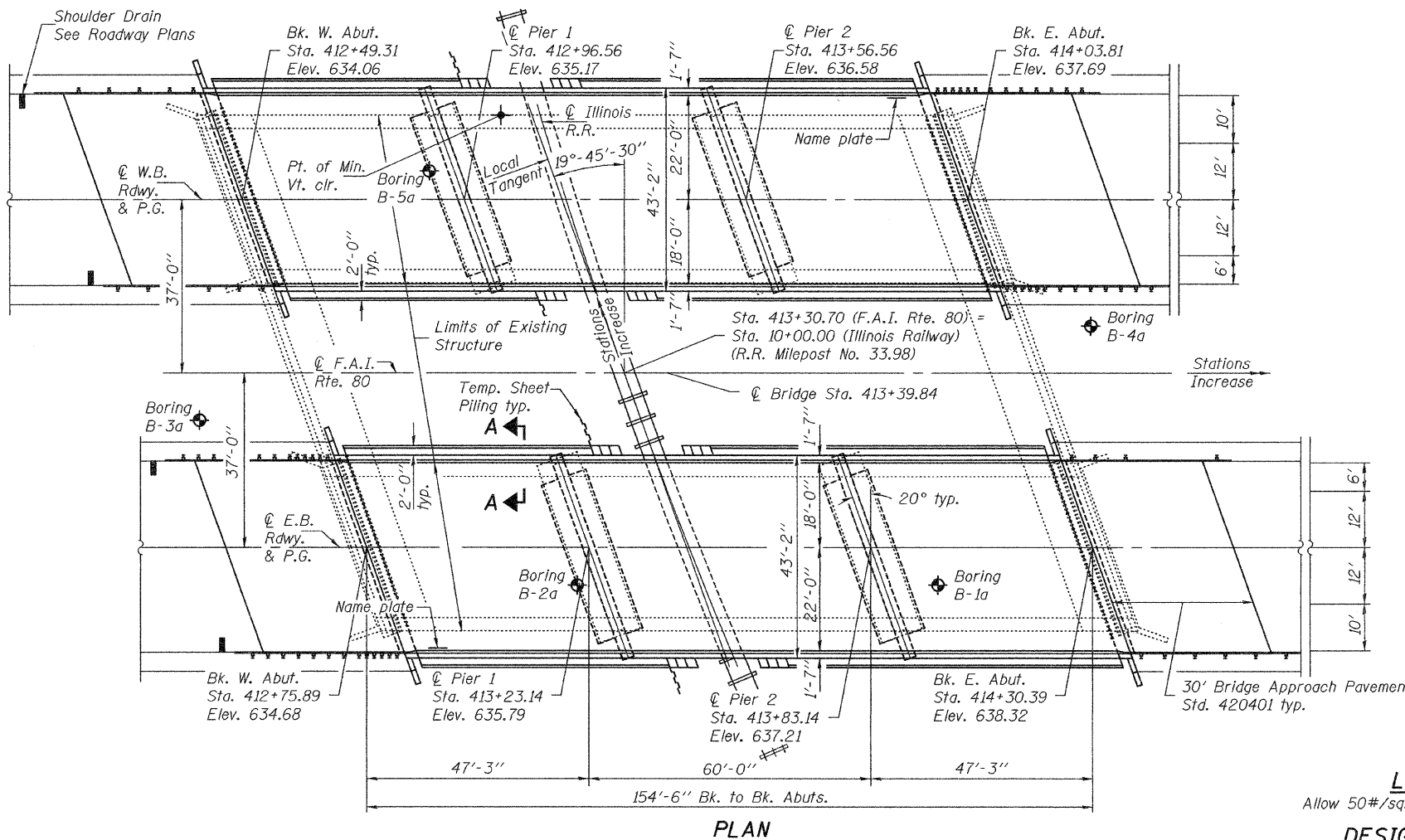
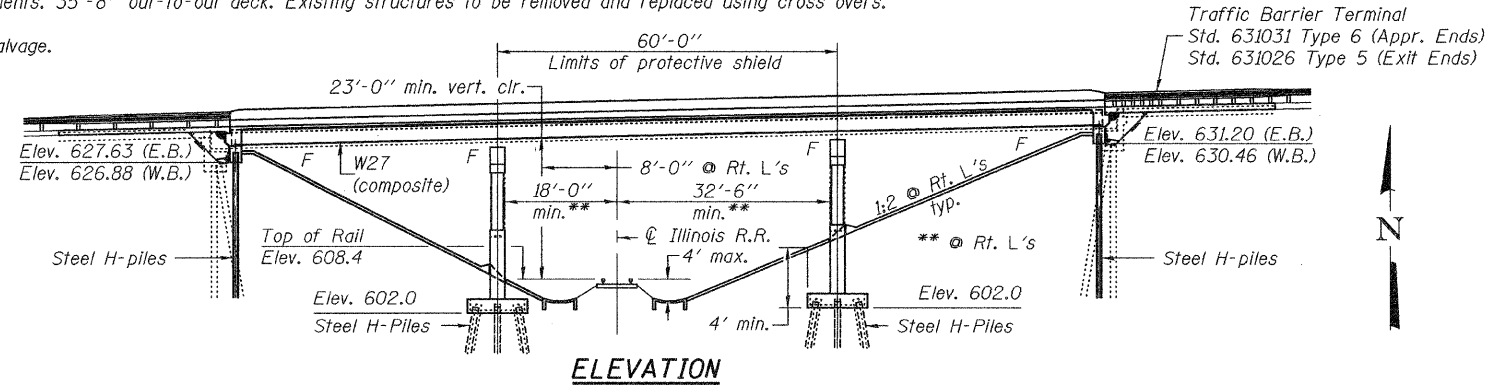
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	105	35 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 66731

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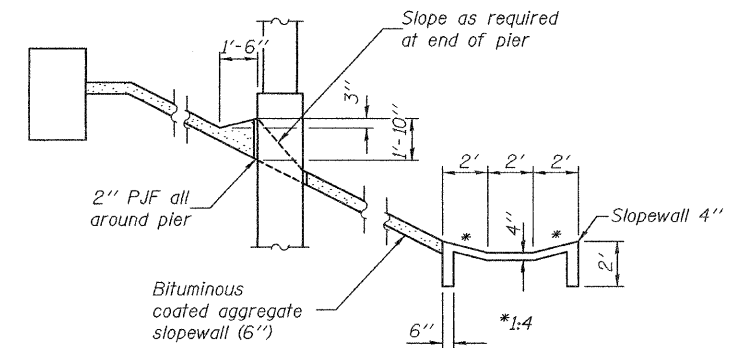
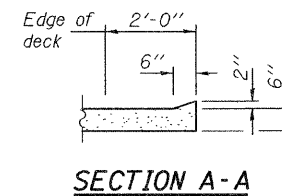
STATION 413+39.84
BUILT 20 BY
STATE OF ILLINOIS
F.A.I. RTE. 80 SEC. 14VBR-2 & 14VBR-3
LOADING HL-93
STRUCTURE NO. 006-0167 (E.B.)

STATION 413+39.84
BUILT 20 BY
STATE OF ILLINOIS
F.A.I. RTE. 80 SEC. 14VBR-2 & 14VBR-3
LOADING HL-93
STRUCTURE NO. 006-0168 (W.B.)

NAME PLATE
See Std. 515001

CURVE DATA

(@ Illinois R.R.)
PI Sta. = 10+00.00
 $\Delta = 26^\circ-57'-11''$
 $D = 4^\circ-58'-32''$
 $R = 1151.56'$
 $T = 275.97'$
 $L = 541.72'$
 $E = 32.61'$
P.C. Sta. = 7+24.03
P.T. Sta. = 12+65.75



SECTION THRU SLOPEWALL
(Horiz. dim. @ Rt. L's)

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS
2007 AASHTO LRFD

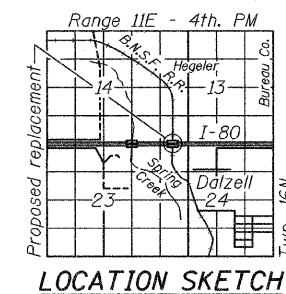
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 50,000$ psi (AASHTO M270 Grade 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Bedrock Acceleration Coefficient (A) = 3.8%g
Site Coefficient (S) = 1.0



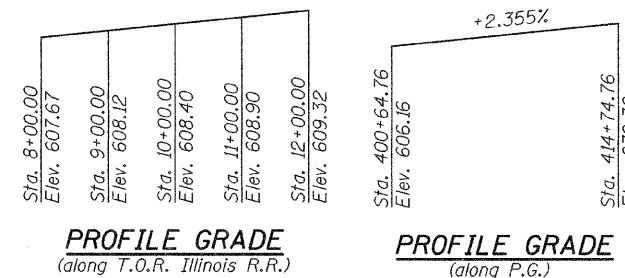
GENERAL PLAN & ELEVATION
I-80 OVER ILLINOIS RAILWAY
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
DOT/ARR NO. 0652734
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

DESIGNED	<i>Nicholas R. B...</i>
CHECKED	<i>...</i>
DRAWN	h.t. duong
CHECKED	NRB/GAA

EXAMINED *...*
PASSED *...*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES



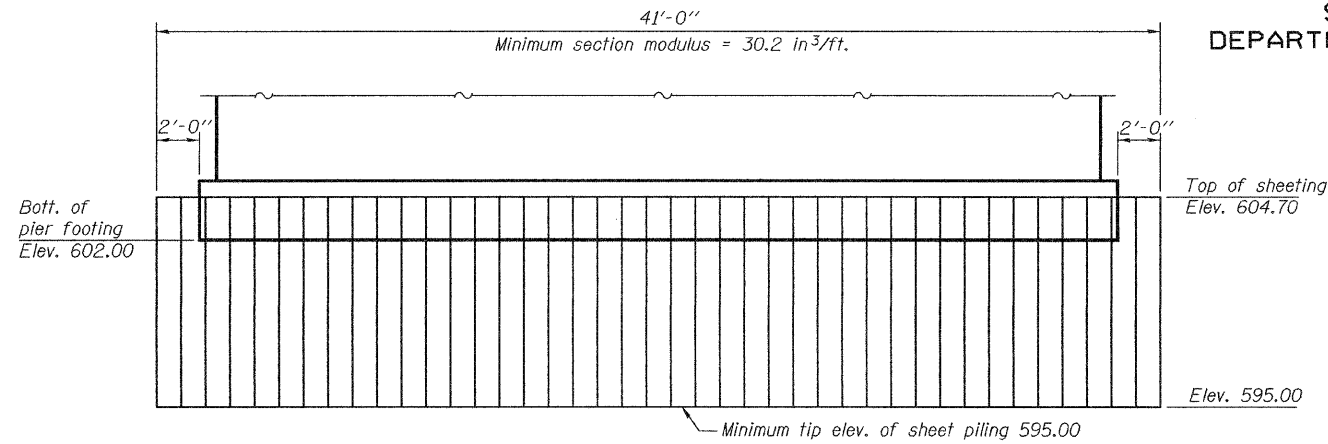
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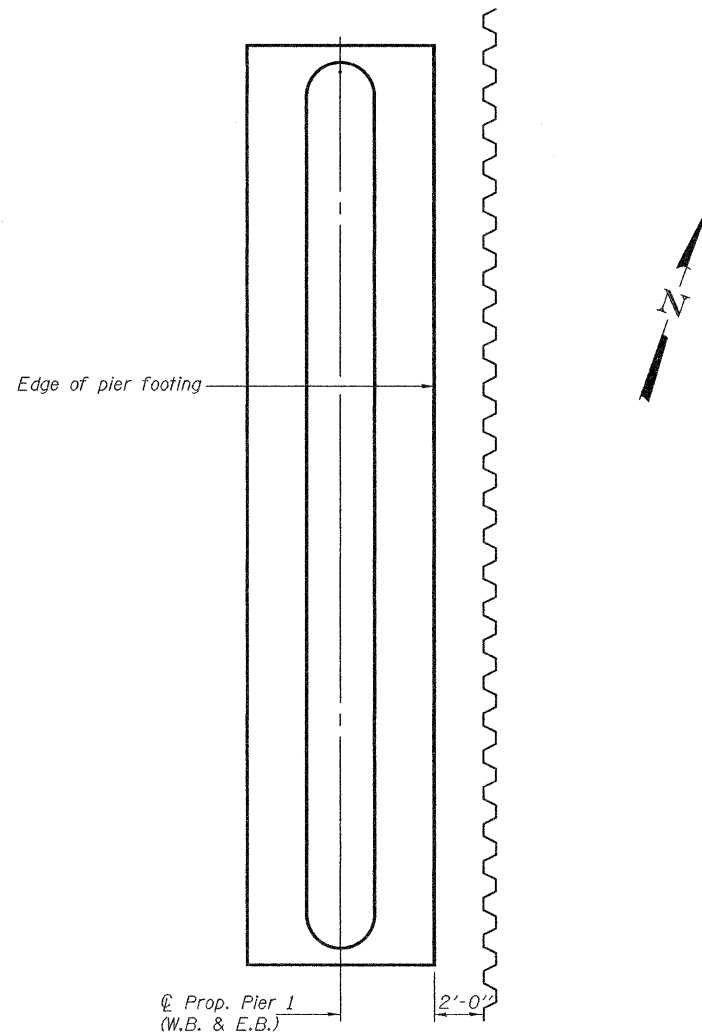
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 2 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	106	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 66731

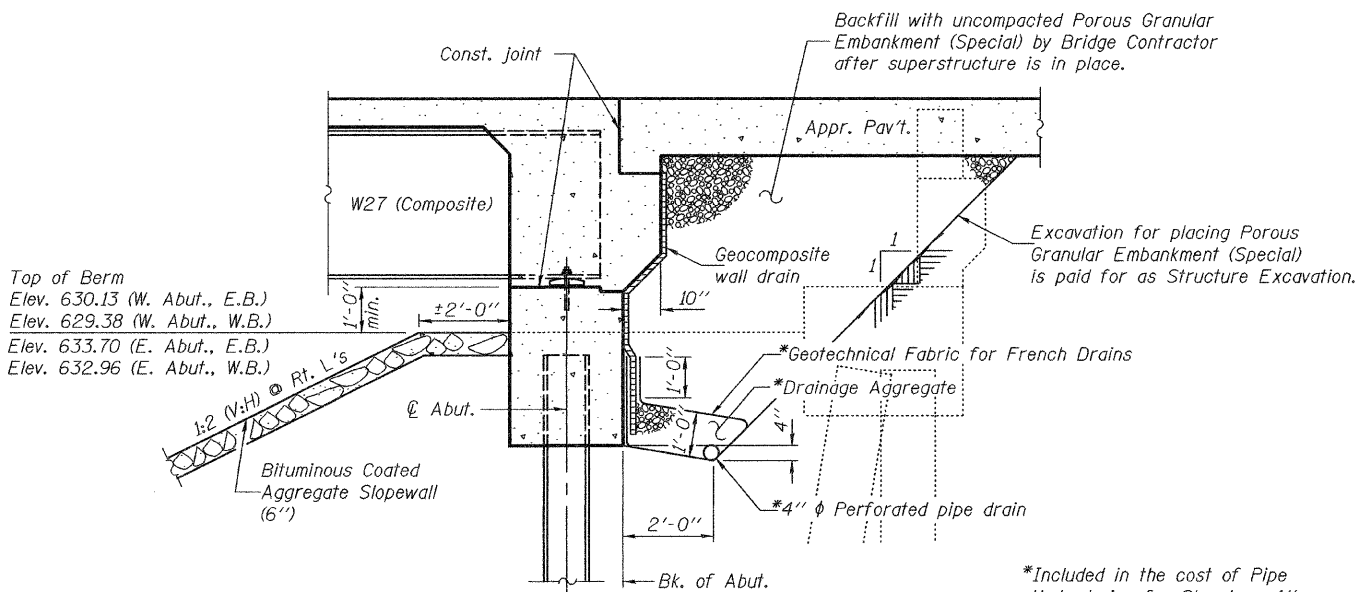


ELEVATION



TOP VIEW

PIER 1 - TEMP. SHEET PILING DETAILS



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu. Yd.		238	238
Removal of Existing Structures	Each			2
Structure Excavation	Cu. Yd.		1326	1326
Concrete Structures	Cu. Yd.		560.2	560.2
Concrete Superstructure	Cu. Yd.	465.2		465.2
Bridge Deck Grooving	Sq. Yd.	1306		1306
Concrete Encasement	Cu. Yd.		12.4	12.4
Protective Coat	Sq. Yd.	1634		1634
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	8208		8208
Reinforcement Bars, Epoxy Coated	Pound	117650	90760	208410
Bar Splicers	Each	160		160
Slopedwall 4"	Sq. Yd.		138	138
Bituminous Coated Aggregate Slopedwall, 6"	Sq. Yd.		1324	1324
Furnishing Steel Piles HP10x42	Foot		1584	1584
Furnishing Steel Piles HP12x53	Foot		3680	3680
Driving Piles	Foot		5264	5264
Test Pile Steel HP10x42	Each		4	4
Test Pile Steel HP12x53	Each		4	4
Temporary Sheet Piling	Sq. Ft.		796	796
Name Plates	Each	2		2
Anchor Bolt 1" φ	Each		96	96
Geocomposite Wall Drain	Sq. Yd.		136	136
Pipe Underdrains for Structures, 4"	Foot		326	326
Protective Shield	Sq. Yd.	476		476

GENERAL NOTES

- Fasteners shall be AASHTO M164 Type 3, bolts. Bolts 7/8" φ, holes 15/16" φ, unless otherwise noted.
- Calculated weight of Structural Steel = 310070 lbs. (M 270 Grade 50W).
- All structural steel shall be AASHTO M 270 Grade 50W.
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to their designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".
- The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
- If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
- Slopedwall shall be reinforced with welded wire fabric, 6"x 6" - W4.0 x W4.0, weighing 58 lbs. per 100 sq. ft.

GENERAL DATA

F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3

BUREAU COUNTY

STATION 413+39.84

STRUCTURE NO. 006-0167 (E.B.)

STRUCTURE NO. 006-0168 (W.B.)

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

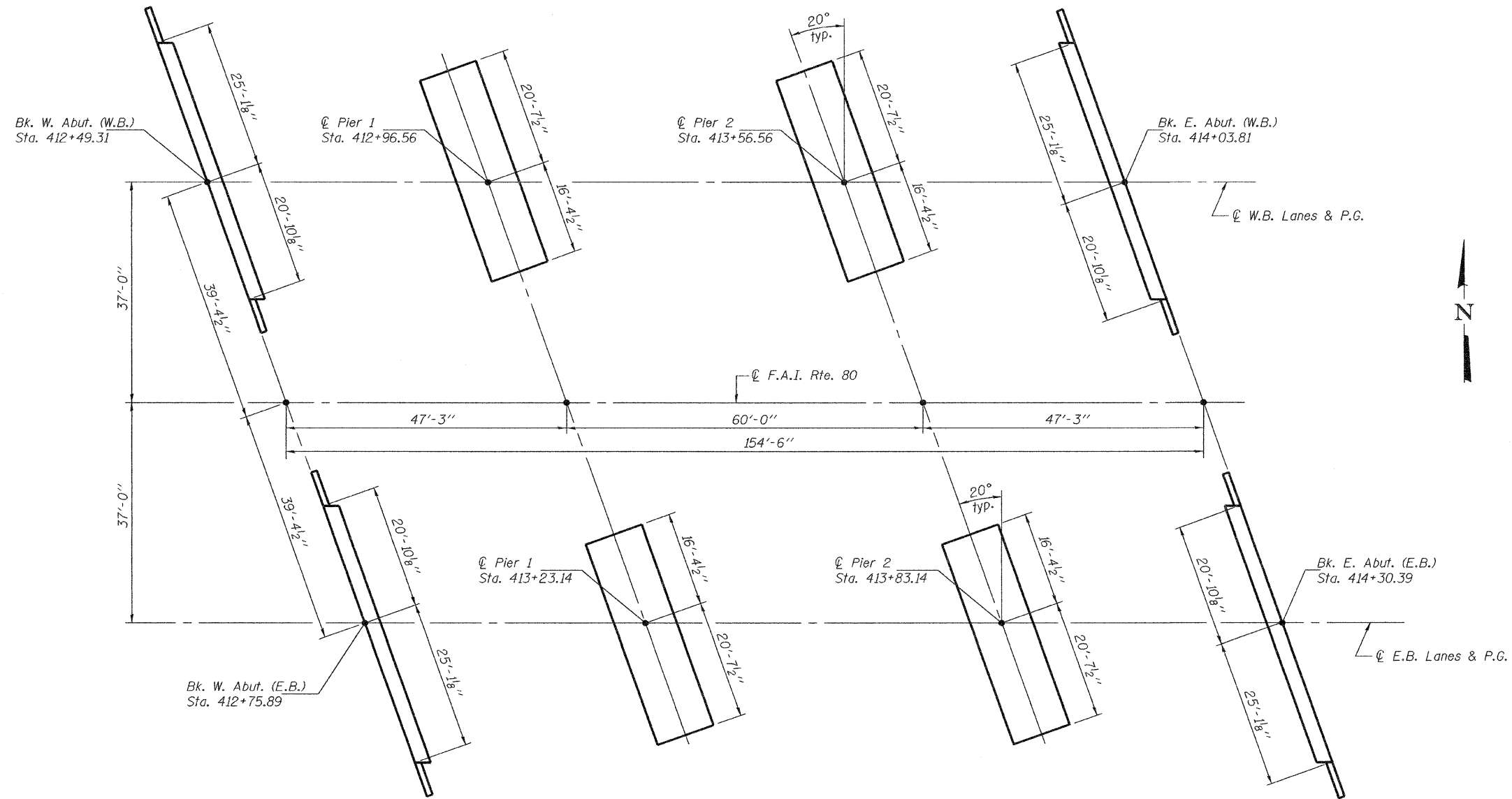
EXAMINED	Thomas J. Domagala SUPERVISOR OF BRIDGES
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

Sep. 30, 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 3
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	107	35 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 66731



FOOTING LAYOUT

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

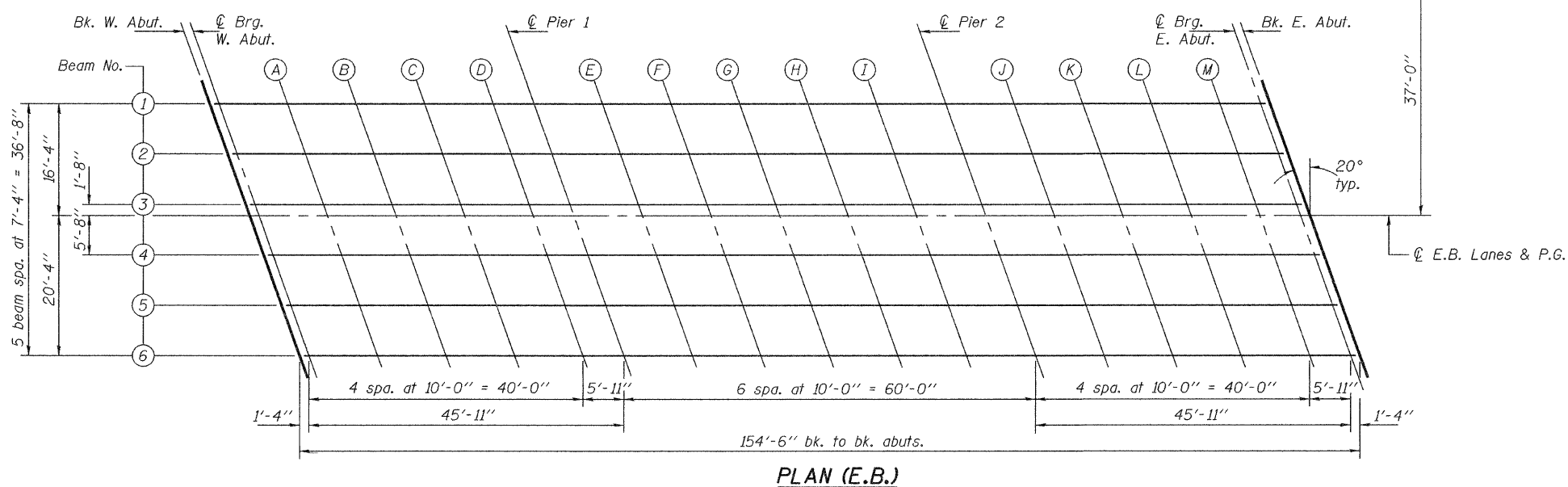
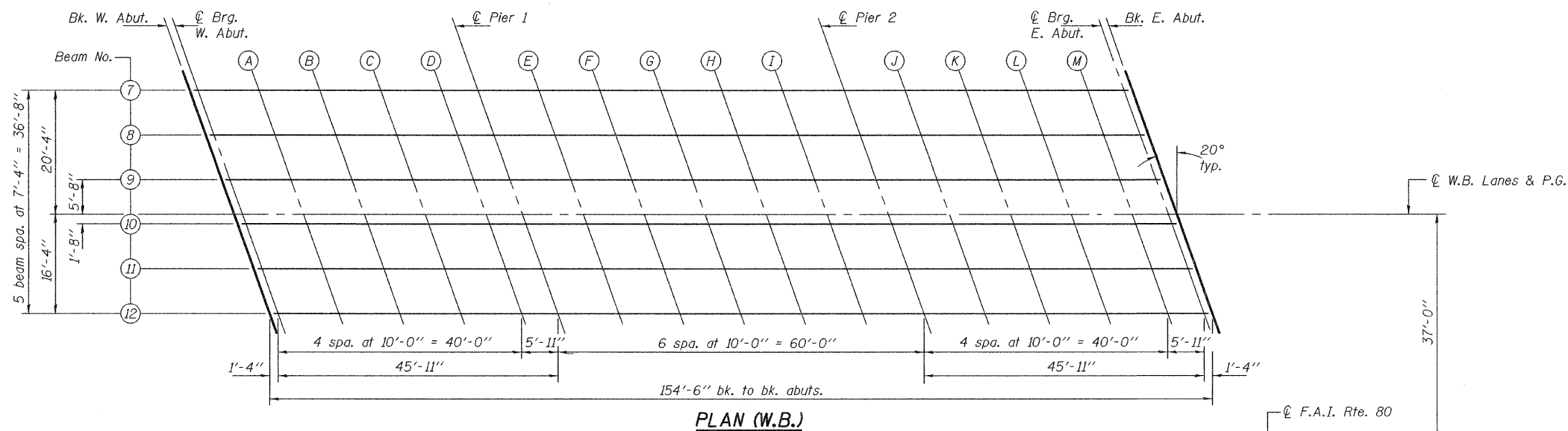
EXAMINED	Thomas J. Domagalicki ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

FOOTING LAYOUT
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 4 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	108	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract No. 66731



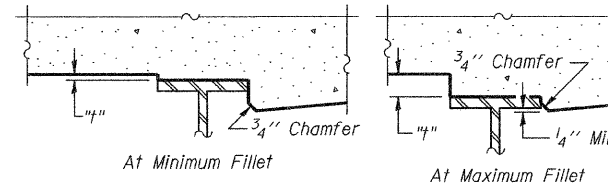
TOP OF SLAB ELEVATIONS
(E.B. & W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

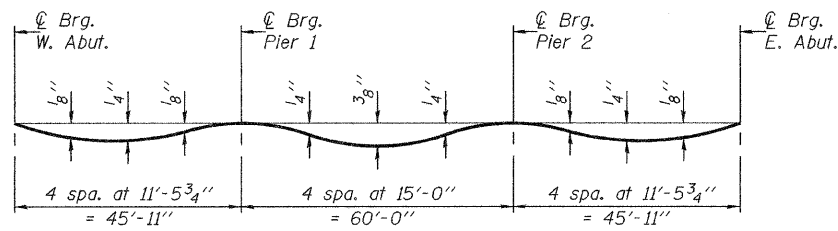
EXAMINED	Thomas J. Donagabadi ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

Sep. 30, 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	109	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract No. 66731		



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

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 below and on sheet 6 of 35.

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on sheet 6 of 35, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41269.95	-16.33	634.26	634.26
CL Brg. W. Abut	41271.28	-16.33	634.30	634.30
A	41281.28	-16.33	634.53	634.54
B	41291.28	-16.33	634.77	634.78
C	41301.28	-16.33	635.00	635.01
D	41311.28	-16.33	635.24	635.24
CL Pier 1	41317.20	-16.33	635.38	635.38
E	41327.20	-16.33	635.61	635.62
F	41337.20	-16.33	635.85	635.87
G	41347.20	-16.33	636.08	636.11
H	41357.20	-16.33	636.32	636.34
I	41367.20	-16.33	636.56	636.57
CL Pier 2	41377.20	-16.33	636.79	636.79
J	41387.20	-16.33	637.03	637.03
K	41397.20	-16.33	637.26	637.27
L	41407.20	-16.33	637.50	637.51
M	41417.20	-16.33	637.73	637.74
CL Brg. E. Abut	41423.12	-16.33	637.87	637.87
Bk. E. Abut	41424.45	-16.33	637.90	637.90

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41272.61	-9.00	634.46	634.46
CL Brg. W. Abut	41273.94	-9.00	634.50	634.50
A	41283.94	-9.00	634.73	634.74
B	41293.94	-9.00	634.97	634.98
C	41303.94	-9.00	635.20	635.21
D	41313.94	-9.00	635.44	635.44
CL Pier 1	41319.86	-9.00	635.58	635.58
E	41329.86	-9.00	635.81	635.82
F	41339.86	-9.00	636.05	636.07
G	41349.86	-9.00	636.28	636.31
H	41359.86	-9.00	636.52	636.54
I	41369.86	-9.00	636.75	636.77
CL Pier 2	41379.86	-9.00	636.99	636.99
J	41389.86	-9.00	637.23	637.23
K	41399.86	-9.00	637.46	637.47
L	41409.86	-9.00	637.70	637.71
M	41419.86	-9.00	637.93	637.94
CL Brg. E. Abut	41425.78	-9.00	638.07	638.07
Bk. E. Abut	41427.11	-9.00	638.10	638.10

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41275.28	-1.67	634.64	634.64
CL Brg. W. Abut	41276.61	-1.67	634.67	634.67
A	41286.61	-1.67	634.91	634.92
B	41296.61	-1.67	635.14	635.16
C	41306.61	-1.67	635.38	635.39
D	41316.61	-1.67	635.62	635.62
CL Pier 1	41322.53	-1.67	635.75	635.75
E	41332.53	-1.67	635.99	636.00
F	41342.53	-1.67	636.23	636.25
G	41352.53	-1.67	636.46	636.49
H	41362.53	-1.67	636.70	636.72
I	41372.53	-1.67	636.93	636.94
CL Pier 2	41382.53	-1.67	637.17	637.17
J	41392.53	-1.67	637.40	637.41
K	41402.53	-1.67	637.64	637.65
L	41412.53	-1.67	637.87	637.89
M	41422.53	-1.67	638.11	638.12
CL Brg. E. Abut	41428.45	-1.67	638.25	638.25
Bk. E. Abut	41429.78	-1.67	638.28	638.28

DESIGNED	Nicholas R. Barnett	EXAMINED	Thomas J. Domagala
CHECKED	Ray Ahanchi	PASSED	Ralph E. Anderson
DRAWN	h.f. duong		
CHECKED	NRB/GRA		

Sep. 30, 2008
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS (E.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	110	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 66731

C ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41275.89	0.00	634.68	634.68
CL Brg. W. Abut	41277.22	0.00	634.71	634.71
A	41287.22	0.00	634.95	634.96
B	41297.22	0.00	635.18	635.20
C	41307.22	0.00	635.42	635.43
D	41317.22	0.00	635.66	635.66
CL Pier 1	41323.14	0.00	635.79	635.79
E	41333.14	0.00	636.03	636.04
F	41343.14	0.00	636.27	636.29
G	41353.14	0.00	636.50	636.53
H	41363.14	0.00	636.74	636.76
I	41373.14	0.00	636.97	636.98
CL Pier 2	41383.14	0.00	637.21	637.21
J	41393.14	0.00	637.44	637.45
K	41403.14	0.00	637.68	637.69
L	41413.14	0.00	637.91	637.93
M	41423.14	0.00	638.15	638.16
CL Brg. E. Abut	41429.06	0.00	638.29	638.29
Bk. E. Abut	41430.39	0.00	638.32	638.32

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41277.95	5.67	634.64	634.64
CL Brg. W. Abut	41279.28	5.67	634.67	634.67
A	41289.28	5.67	634.91	634.92
B	41299.28	5.67	635.14	635.16
C	41309.28	5.67	635.38	635.39
D	41319.28	5.67	635.62	635.62
CL Pier 1	41325.20	5.67	635.76	635.76
E	41335.20	5.67	635.99	636.00
F	41345.20	5.67	636.23	636.25
G	41355.20	5.67	636.46	636.49
H	41365.20	5.67	636.70	636.72
I	41375.20	5.67	636.93	636.94
CL Pier 2	41385.20	5.67	637.17	637.17
J	41395.20	5.67	637.40	637.41
K	41405.20	5.67	637.64	637.65
L	41415.20	5.67	637.87	637.89
M	41425.20	5.67	638.11	638.12
CL Brg. E. Abut	41431.12	5.67	638.25	638.25
Bk. E. Abut	41432.45	5.67	638.28	638.28

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41280.62	13.00	634.59	634.59
CL Brg. W. Abut	41281.95	13.00	634.62	634.62
A	41291.95	13.00	634.85	634.86
B	41301.95	13.00	635.09	635.10
C	41311.95	13.00	635.32	635.33
D	41321.95	13.00	635.56	635.56
CL Pier 1	41327.87	13.00	635.70	635.70
E	41337.87	13.00	635.93	635.94
F	41347.87	13.00	636.17	636.19
G	41357.87	13.00	636.40	636.43
H	41367.87	13.00	636.64	636.66
I	41377.87	13.00	636.88	636.89
CL Pier 2	41387.87	13.00	637.11	637.11
J	41397.87	13.00	637.35	637.35
K	41407.87	13.00	637.58	637.59
L	41417.87	13.00	637.82	637.83
M	41427.87	13.00	638.05	638.06
CL Brg. E. Abut	41433.79	13.00	638.19	638.19
Bk. E. Abut	41435.12	13.00	638.22	638.22

BEAM 6

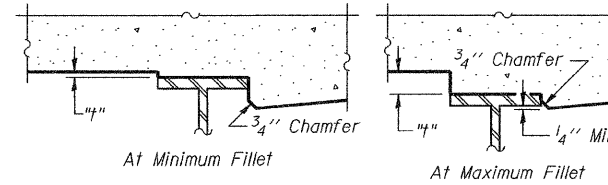
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41283.29	20.33	634.50	634.50
CL Brg. W. Abut	41284.62	20.33	634.53	634.53
A	41294.62	20.33	634.76	634.77
B	41304.62	20.33	635.00	635.01
C	41314.62	20.33	635.23	635.24
D	41324.62	20.33	635.47	635.47
CL Pier 1	41330.54	20.33	635.61	635.61
E	41340.54	20.33	635.84	635.86
F	41350.54	20.33	636.08	636.10
G	41360.54	20.33	636.32	636.34
H	41370.54	20.33	636.55	636.57
I	41380.54	20.33	636.79	636.80
CL Pier 2	41390.54	20.33	637.02	637.02
J	41400.54	20.33	637.26	637.26
K	41410.54	20.33	637.49	637.50
L	41420.54	20.33	637.73	637.74
M	41430.54	20.33	637.96	637.97
CL Brg. E. Abut	41436.46	20.33	638.10	638.10
Bk. E. Abut	41437.79	20.33	638.13	638.13

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED *Thomas J. Domagala*
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

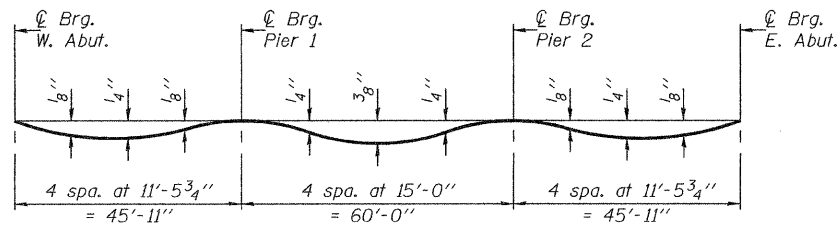
TOP OF SLAB ELEVATIONS (E.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	111
ILLINOIS		FED. AID PROJECT-		

Contract No. 66731



DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

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 below and on sheet 8 of 35.

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below and on sheet 8 of 35, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41241.91	-20.33	633.52	633.52
CL Brg. W. Abut	41243.24	-20.33	633.55	633.55
A	41253.24	-20.33	633.79	633.80
B	41263.24	-20.33	634.02	634.04
C	41273.24	-20.33	634.26	634.27
D	41283.24	-20.33	634.49	634.50
CL Pier 1	41289.16	-20.33	634.63	634.63
E	41299.16	-20.33	634.87	634.88
F	41309.16	-20.33	635.11	635.13
G	41319.16	-20.33	635.34	635.37
H	41329.16	-20.33	635.58	635.60
I	41339.16	-20.33	635.81	635.82
CL Pier 2	41349.16	-20.33	636.05	636.05
J	41359.16	-20.33	636.28	636.29
K	41369.16	-20.33	636.52	636.53
L	41379.16	-20.33	636.75	636.77
M	41389.16	-20.33	636.99	637.00
CL Brg. E. Abut	41395.08	-20.33	637.13	637.13
Bk. E. Abut	41396.41	-20.33	637.16	637.16

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41244.58	-13.00	633.74	633.74
CL Brg. W. Abut	41245.91	-13.00	633.77	633.77
A	41255.91	-13.00	634.00	634.01
B	41265.91	-13.00	634.24	634.25
C	41275.91	-13.00	634.47	634.48
D	41285.91	-13.00	634.71	634.71
CL Pier 1	41291.83	-13.00	634.85	634.85
E	41301.83	-13.00	635.08	635.10
F	41311.83	-13.00	635.32	635.34
G	41321.83	-13.00	635.56	635.59
H	41331.83	-13.00	635.79	635.81
I	41341.83	-13.00	636.03	636.04
CL Pier 2	41351.83	-13.00	636.26	636.26
J	41361.83	-13.00	636.50	636.50
K	41371.83	-13.00	636.73	636.75
L	41381.83	-13.00	636.97	636.98
M	41391.83	-13.00	637.20	637.21
CL Brg. E. Abut	41397.75	-13.00	637.34	637.34
Bk. E. Abut	41399.08	-13.00	637.38	637.38

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41247.25	-5.67	633.92	633.92
CL Brg. W. Abut	41248.58	-5.67	633.95	633.95
A	41258.58	-5.67	634.19	634.20
B	41268.58	-5.67	634.42	634.44
C	41278.58	-5.67	634.66	634.67
D	41288.58	-5.67	634.89	634.90
CL Pier 1	41294.50	-5.67	635.03	635.03
E	41304.50	-5.67	635.27	635.28
F	41314.50	-5.67	635.50	635.52
G	41324.50	-5.67	635.74	635.77
H	41334.50	-5.67	635.97	635.99
I	41344.50	-5.67	636.21	636.22
CL Pier 2	41354.50	-5.67	636.44	636.44
J	41364.50	-5.67	636.68	636.69
K	41374.50	-5.67	636.92	636.93
L	41384.50	-5.67	637.15	637.16
M	41394.50	-5.67	637.39	637.39
CL Brg. E. Abut	41400.41	-5.67	637.53	637.53
Bk. E. Abut	41401.75	-5.67	637.56	637.56

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED *Thomas J. Romagosa*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS (W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 8 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	112	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 66731

ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41249.31	0.00	634.06	634.06
CL Brg. W. Abut	41250.64	0.00	634.09	634.09
A	41260.64	0.00	634.32	634.33
B	41270.64	0.00	634.56	634.57
C	41280.64	0.00	634.79	634.80
D	41290.64	0.00	635.03	635.03
CL Pier 1	41296.56	0.00	635.17	635.17
E	41306.56	0.00	635.40	635.42
F	41316.56	0.00	635.64	635.66
G	41326.56	0.00	635.88	635.90
H	41336.56	0.00	636.11	636.13
I	41346.56	0.00	636.35	636.36
CL Pier 2	41356.56	0.00	636.58	636.58
J	41366.56	0.00	636.82	636.82
K	41376.56	0.00	637.05	637.06
L	41386.56	0.00	637.29	637.30
M	41396.56	0.00	637.52	637.53
CL Brg. E. Abut	41402.48	0.00	637.66	637.66
Bk. E. Abut	41403.81	0.00	637.69	637.69

BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41249.92	1.67	634.04	634.04
CL Brg. W. Abut	41251.25	1.67	634.08	634.08
A	41261.25	1.67	634.31	634.32
B	41271.25	1.67	634.55	634.56
C	41281.25	1.67	634.78	634.79
D	41291.25	1.67	635.02	635.02
CL Pier 1	41297.17	1.67	635.16	635.16
E	41307.17	1.67	635.39	635.40
F	41317.17	1.67	635.63	635.65
G	41327.17	1.67	635.86	635.89
H	41337.17	1.67	636.10	636.12
I	41347.17	1.67	636.33	636.35
CL Pier 2	41357.17	1.67	636.57	636.57
J	41367.17	1.67	636.81	636.81
K	41377.17	1.67	637.04	637.05
L	41387.17	1.67	637.28	637.29
M	41397.17	1.67	637.51	637.52
CL Brg. E. Abut	41403.08	1.67	637.65	637.65
Bk. E. Abut	41404.42	1.67	637.68	637.68

BEAM 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41252.59	9.00	633.99	633.99
CL Brg. W. Abut	41253.92	9.00	634.02	634.02
A	41263.92	9.00	634.26	634.27
B	41273.92	9.00	634.50	634.51
C	41283.92	9.00	634.73	634.74
D	41293.92	9.00	634.97	634.97
CL Pier 1	41299.84	9.00	635.11	635.11
E	41309.84	9.00	635.34	635.35
F	41319.84	9.00	635.58	635.60
G	41329.84	9.00	635.81	635.84
H	41339.84	9.00	636.05	636.07
I	41349.84	9.00	636.28	636.29
CL Pier 2	41359.84	9.00	636.52	636.52
J	41369.84	9.00	636.75	636.76
K	41379.84	9.00	636.99	637.00
L	41389.84	9.00	637.23	637.24
M	41399.84	9.00	637.46	637.47
CL Brg. E. Abut	41405.75	9.00	637.60	637.60
Bk. E. Abut	41407.09	9.00	637.63	637.63

BEAM 12

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut	41255.25	16.33	633.92	633.92
CL Brg. W. Abut	41256.58	16.33	633.95	633.95
A	41266.58	16.33	634.19	634.20
B	41276.58	16.33	634.42	634.43
C	41286.58	16.33	634.66	634.67
D	41296.58	16.33	634.89	634.90
CL Pier 1	41302.50	16.33	635.03	635.03
E	41312.50	16.33	635.27	635.28
F	41322.50	16.33	635.50	635.52
G	41332.50	16.33	635.74	635.77
H	41342.50	16.33	635.97	635.99
I	41352.50	16.33	636.21	636.22
CL Pier 2	41362.50	16.33	636.44	636.44
J	41372.50	16.33	636.68	636.69
K	41382.50	16.33	636.92	636.93
L	41392.50	16.33	637.15	637.16
M	41402.50	16.33	637.39	637.39
CL Brg. E. Abut	41408.42	16.33	637.53	637.53
Bk. E. Abut	41409.75	16.33	637.56	637.56

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED *Thomas J. Domagala*
ENGINEER OF BRIDGE DESIGN
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

TOP OF SLAB ELEVATIONS (W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	113	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT	Contract No. 66731		

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of W. Aprr	41239.34	-18.00	633.51
A	41249.34	-18.00	633.74
B	41259.34	-18.00	633.98
Bk. W. Abut.	41269.34	-18.00	634.22

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of W. Aprr	41241.52	-12.00	633.69
A	41251.52	-12.00	633.92
B	41261.52	-12.00	634.16
Bk. W. Abut.	41271.52	-12.00	634.39

☉ ROADWAY & PROFILE GRADE

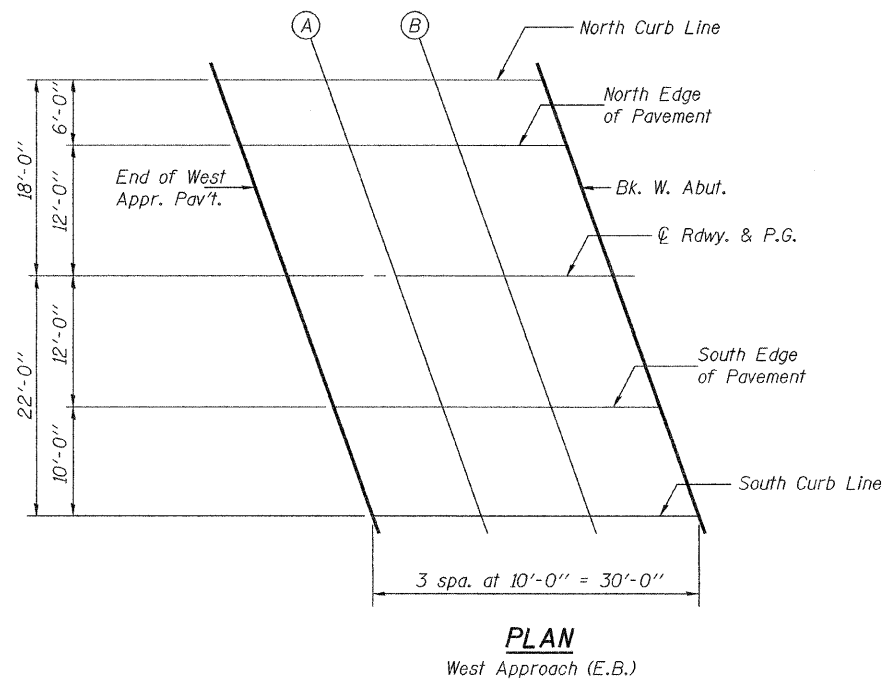
Location	Station	Offset	Theoretical Grade Elevations
End of W. Aprr	41245.89	0.00	633.98
A	41255.89	0.00	634.21
B	41265.89	0.00	634.45
Bk. W. Abut.	41275.89	0.00	634.68

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of W. Aprr	41250.26	12.00	633.89
A	41260.26	12.00	634.13
B	41270.26	12.00	634.36
Bk. W. Abut.	41280.26	12.00	634.60

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of W. Aprr	41253.90	22.00	633.77
A	41263.90	22.00	634.00
B	41273.90	22.00	634.24
Bk. W. Abut.	41283.90	22.00	634.48



DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF WEST APPROACH
PAVEMENT ELEVATIONS (E.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 10 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	114	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 66731

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41423.84	-18.00	637.85
A	41433.84	-18.00	638.09
B	41443.84	-18.00	638.33
End of E. Appr.	41453.84	-18.00	638.56

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41426.02	-12.00	638.03
A	41436.02	-12.00	638.27
B	41446.02	-12.00	638.50
End of E. Appr.	41456.02	-12.00	638.74

☉ ROADWAY & PROFILE GRADE

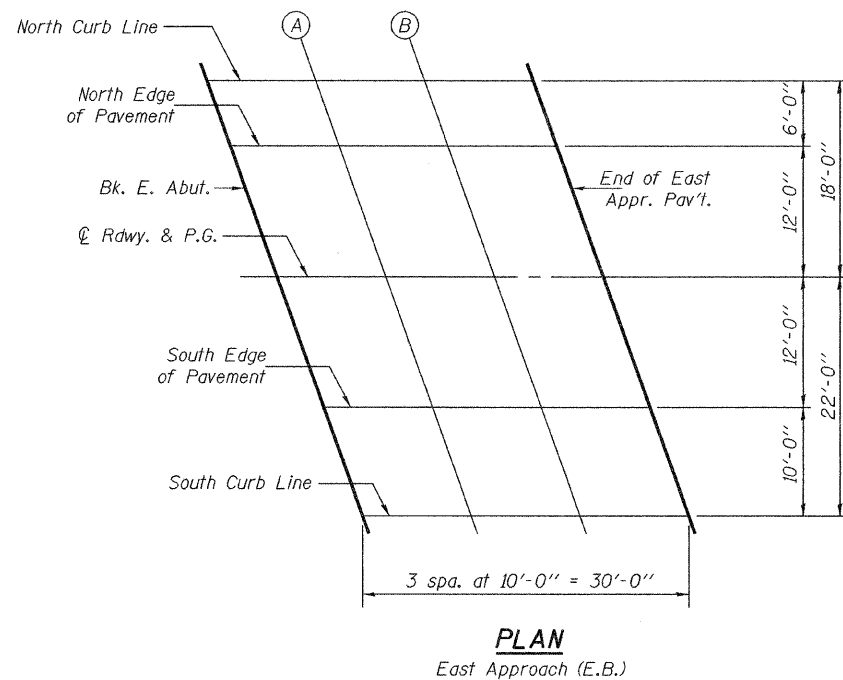
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41430.39	0.00	638.32
A	41440.39	0.00	638.56
B	41450.39	0.00	638.79
End of E. Appr.	41460.39	0.00	639.03

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41434.76	12.00	638.24
A	41444.76	12.00	638.47
B	41454.76	12.00	638.71
End of E. Appr.	41464.76	12.00	638.94

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41438.40	22.00	638.11
A	41448.40	22.00	638.35
B	41458.40	22.00	638.58
End of E. Appr.	41468.40	22.00	638.82



DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagalick ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF EAST APPROACH
PAVEMENT ELEVATIONS (E.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 11
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	115	35 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 66731

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr	41211.30	-22.00	632.77
A	41221.30	-22.00	633.00
B	41231.30	-22.00	633.24
Bk. W. Abut.	41241.30	-22.00	633.47

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr	41214.94	-12.00	633.06
A	41224.94	-12.00	633.30
B	41234.94	-12.00	633.53
Bk. W. Abut.	41244.94	-12.00	633.77

☉ ROADWAY & PROFILE GRADE

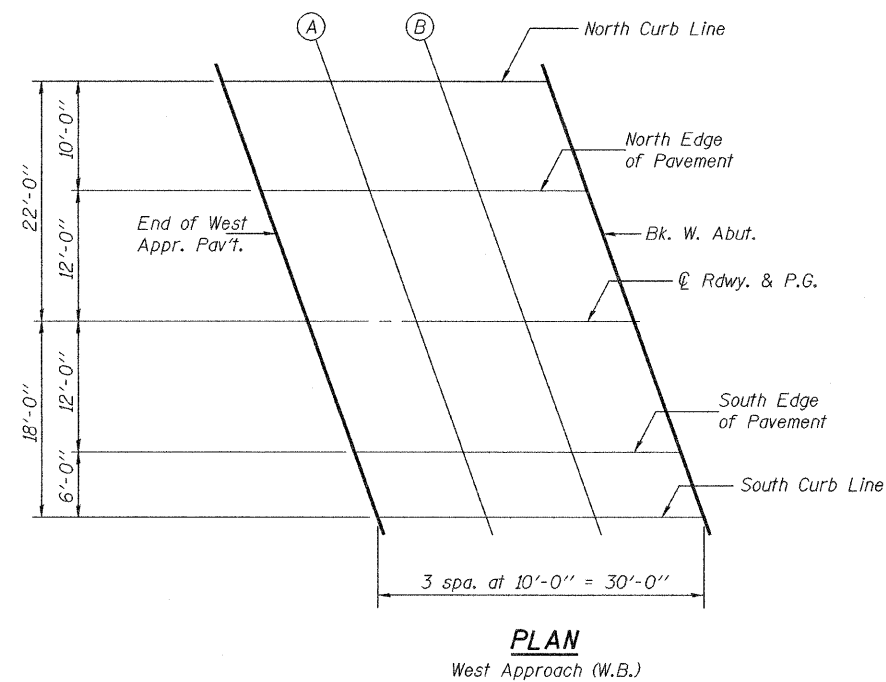
Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr	41219.31	0.00	633.35
A	41229.31	0.00	633.59
B	41239.31	0.00	633.82
Bk. W. Abut.	41249.31	0.00	634.06

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr	41223.68	12.00	633.27
A	41233.68	12.00	633.50
B	41243.68	12.00	633.74
Bk. W. Abut.	41253.68	12.00	633.97

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of W. Appr	41225.86	18.00	633.19
A	41235.86	18.00	633.43
B	41245.86	18.00	633.66
Bk. W. Abut.	41255.86	18.00	633.90



DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duang
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagalicki ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

**TOP OF WEST APPROACH
PAVEMENT ELEVATIONS (W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 12 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	116	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

Contract No. 66731

NORTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41395.80	-22.00	637.11
A	41405.80	-22.00	637.35
B	41415.80	-22.00	637.58
End of E. Appr.	41425.80	-22.00	637.82

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41399.44	-12.00	637.40
A	41409.44	-12.00	637.64
B	41419.44	-12.00	637.88
End of E. Appr.	41429.44	-12.00	638.11

☉ ROADWAY & PROFILE GRADE

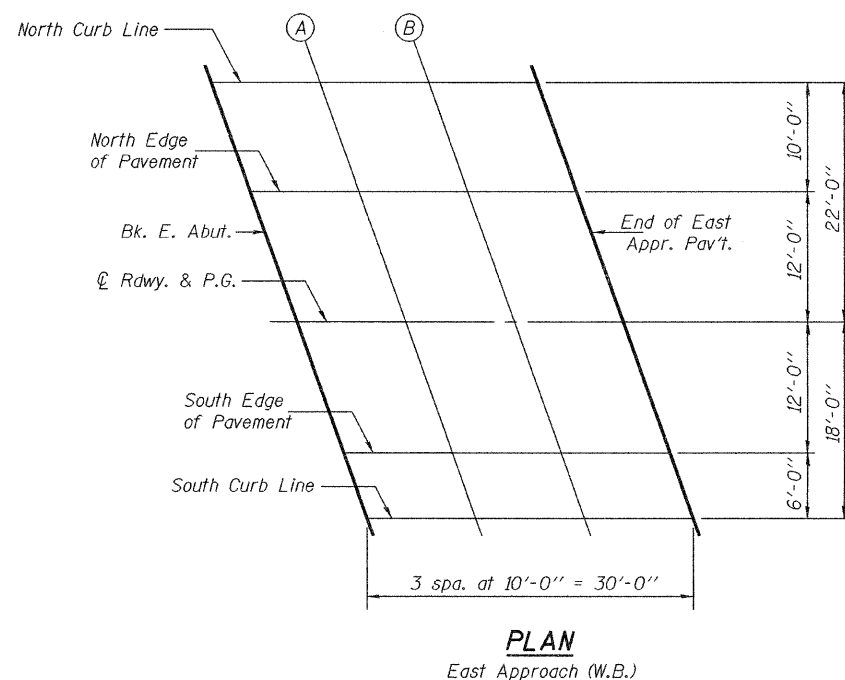
Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41403.81	0.00	637.69
A	41413.81	0.00	637.93
B	41423.81	0.00	638.17
End of E. Appr.	41433.81	0.00	638.40

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41408.18	12.00	637.61
A	41418.18	12.00	637.85
B	41428.18	12.00	638.08
End of E. Appr.	41438.18	12.00	638.32

SOUTH CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. E. Abut.	41410.36	18.00	637.54
A	41420.36	18.00	637.77
B	41430.36	18.00	638.01
End of E. Appr.	41440.36	18.00	638.24



DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

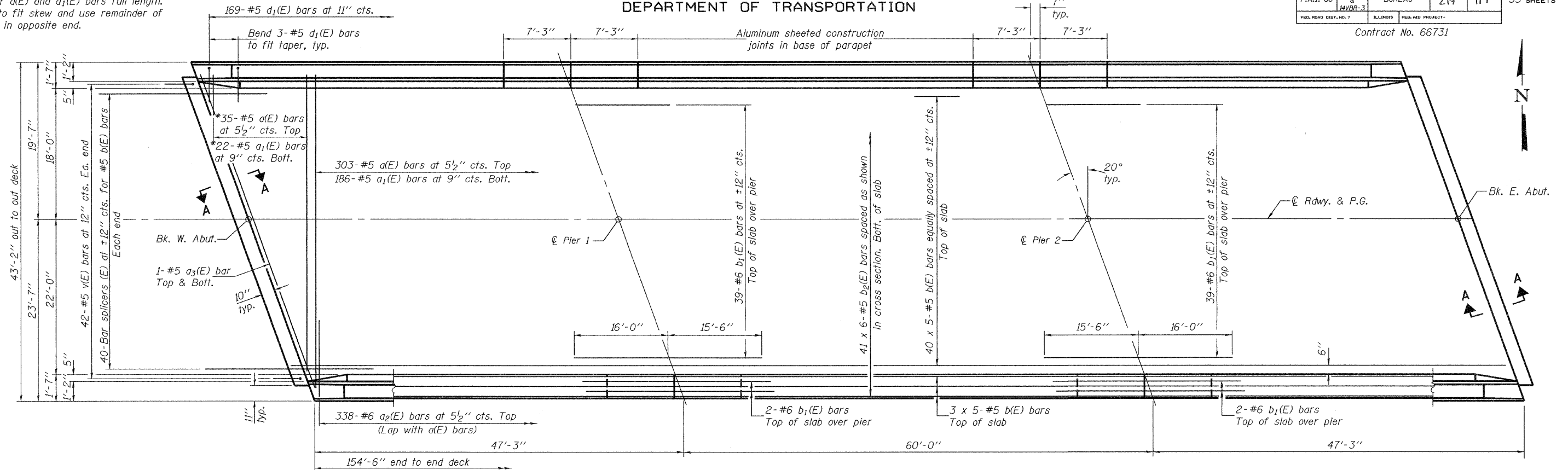
**TOP OF EAST APPROACH
PAVEMENT ELEVATIONS (W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 13 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	117	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

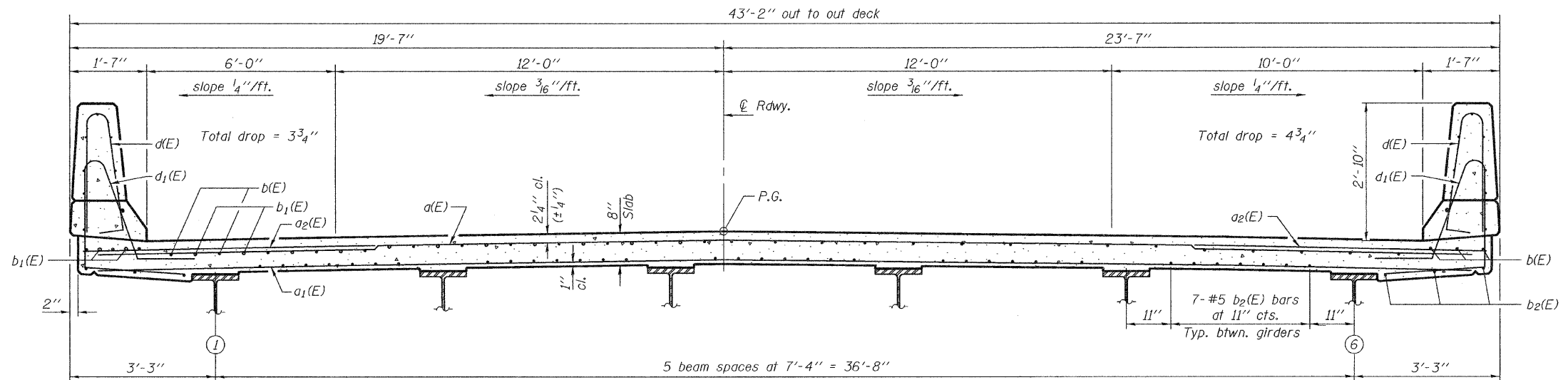
Contract No. 66731

*Order a(E) and a₁(E) bars full length.
Cut to fit skew and use remainder of
bars in opposite end.



PLAN

Notes: See sheet 15 of 35 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3- #5 etc. indicates 20 lines of bars with 3 lengths per line.
See sheet 15 of 35 for parapet reinforcement.
See sheet 16 of 35 for Section A-A.



NEAR PIER

CROSS SECTION
(Looking East)

NEAR MIDSPAN

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.i. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagalicki ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

Sep. 30, 2008

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

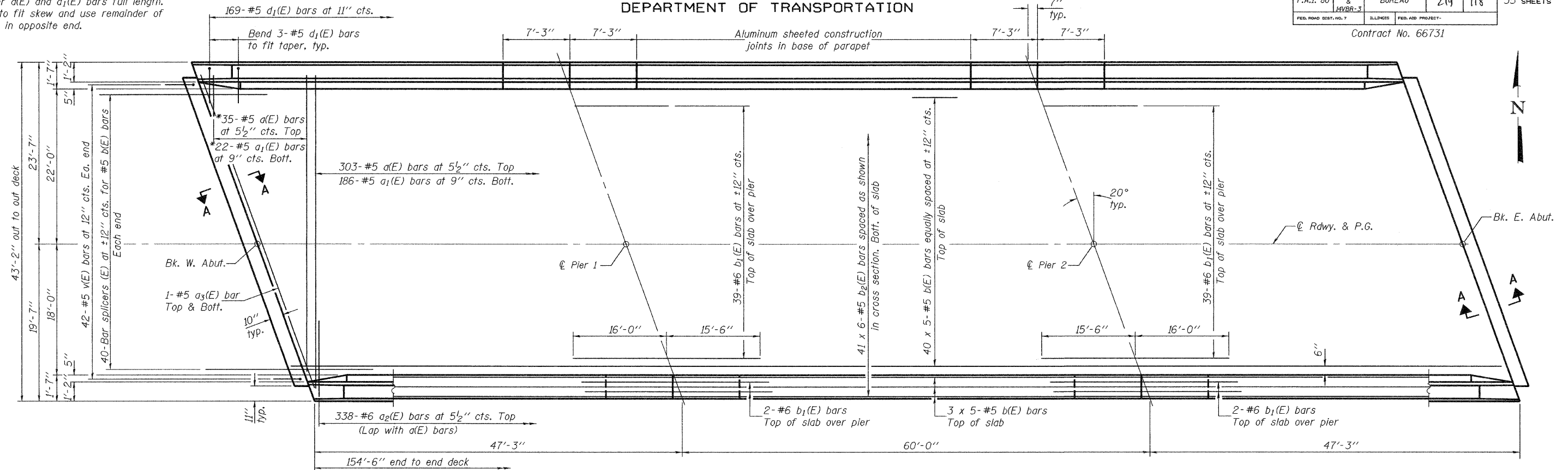
SUPERSTRUCTURE (E.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 14 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	118	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

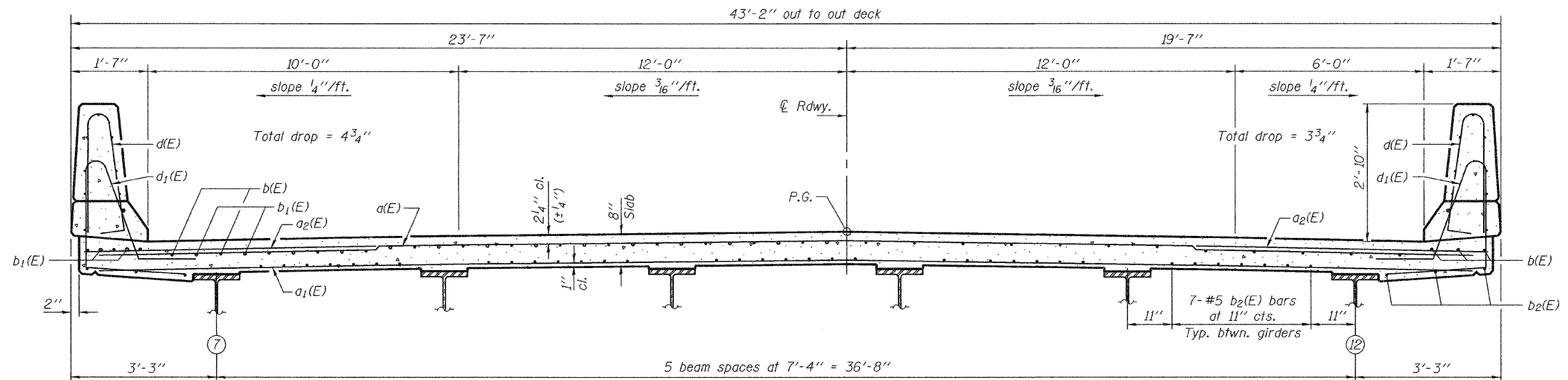
Contract No. 66731

*Order a(E) and a₁(E) bars full length.
Cut to fit skew and use remainder of
bars in opposite end.



PLAN

Notes: See sheet 15 of 35 for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See sheet 15 of 35 for parapet reinforcement.
See sheet 16 of 35 for Section A-A.



NEAR PIER

CROSS SECTION
(Looking East)

NEAR MIDSPAN

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagala
PASSED	Ralph E. Anderson

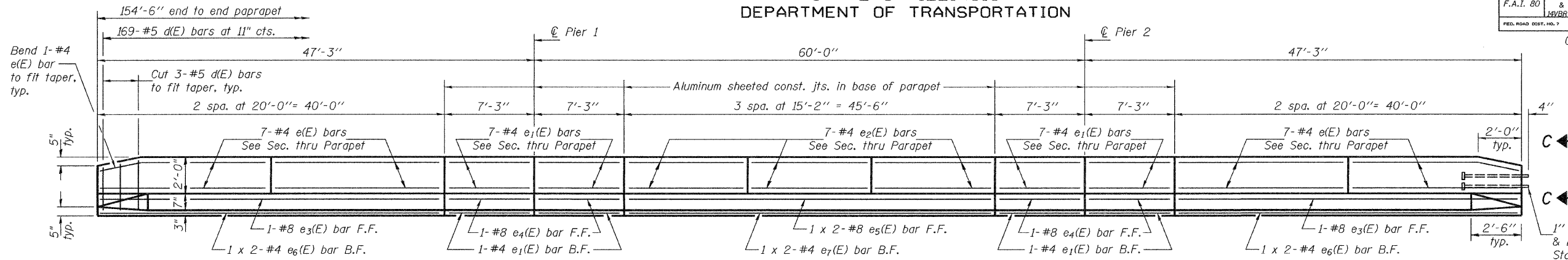
MIN. BAR LAP
#5 bar = 2'-2"

SUPERSTRUCTURE (W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	119	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

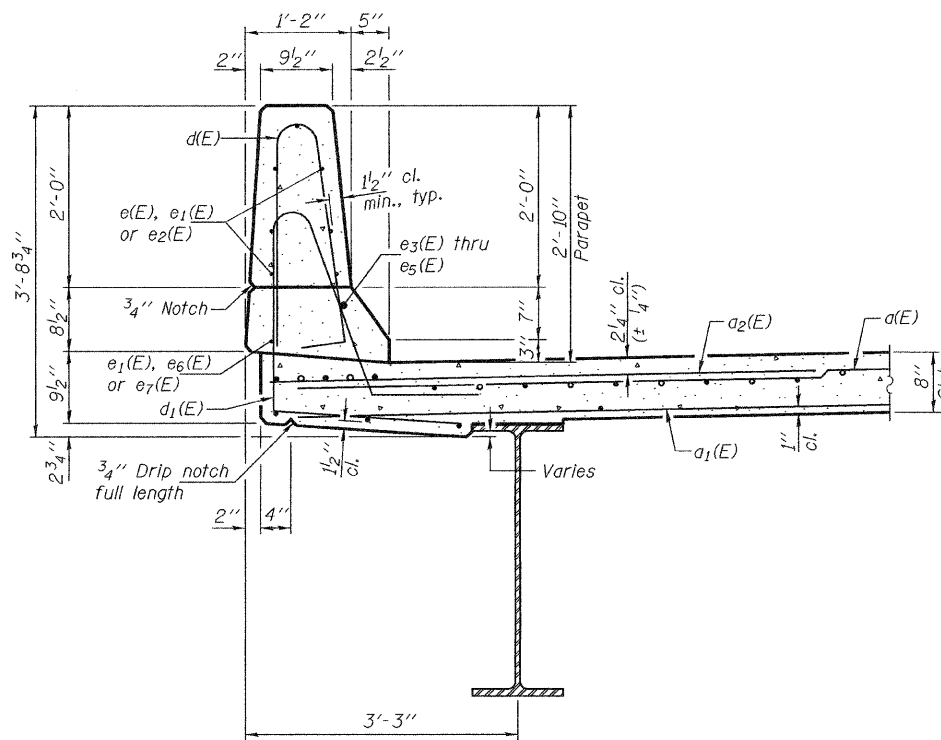
Contract No. 66731



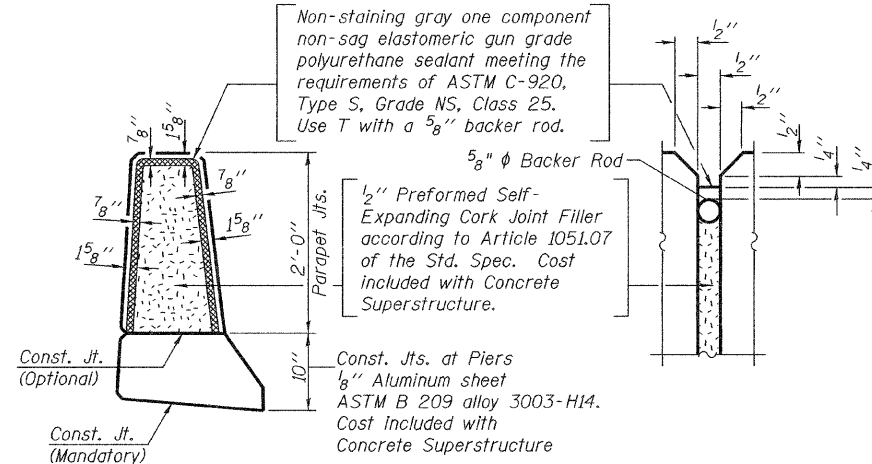
INSIDE ELEVATION OF NORTH PARAPET (E.B.) & (W.B.)
(Looking North - South parapets similar)

MIN. BAR LAPS

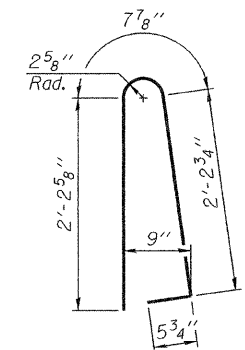
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"



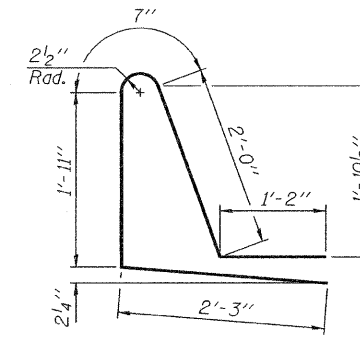
SECTION THRU PARAPET



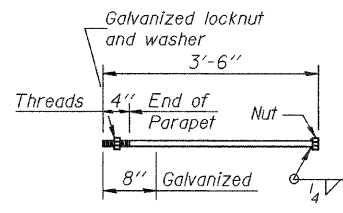
PARAPET JOINT DETAILS



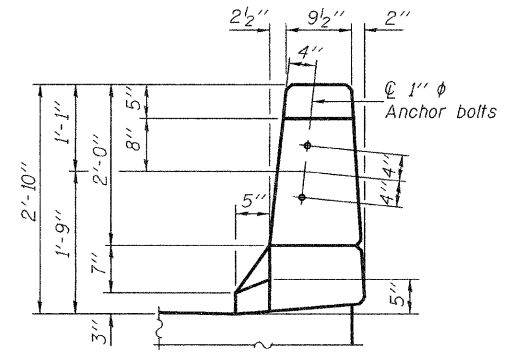
BAR d(E)



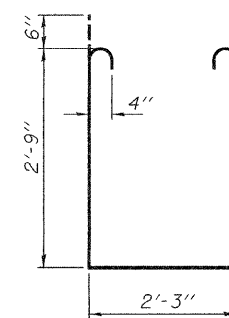
BAR d1(E)



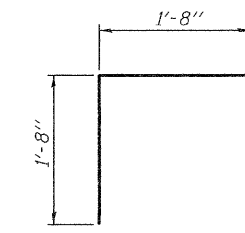
1" ANCHOR BOLT



VIEW C-C



BAR s1(E)



BAR v(E)

**TWO SUPERSTRUCTURES
(E.B. & W.B.)
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
d(E)	676	#5	42'-6"	—
d1(E)	416	#5	40'-10"	—
a2(E)	1352	#6	6'-0"	—
a3(E)	8	#5	43'-6"	—
b(E)	460	#5	32'-7"	—
b1(E)	172	#6	31'-6"	—
b2(E)	492	#5	27'-6"	—
d(E)	676	#5	5'-7"	┘
d1(E)	676	#5	7'-11"	┘
e(E)	112	#4	19'-9"	—
e1(E)	128	#4	7'-0"	—
e2(E)	84	#4	14'-11"	—
e3(E)	8	#8	39'-9"	—
e4(E)	16	#8	7'-0"	—
e5(E)	8	#8	24'-5"	—
e6(E)	16	#4	20'-7"	—
e7(E)	8	#4	23'-5"	—
m(E)	16	#6	23'-3"	—
m1(E)	24	#6	24'-3"	—
m2(E)	48	#6	10'-5"	—
m3(E)	20	#6	7'-6"	—
m4(E)	8	#6	3'-1"	—
s(E)	184	#5	5'-9"	┘
s1(E)	164	#4	8'-9"	┘
v(E)	168	#5	3'-4"	┘
Reinforcement Bars, Epoxy Coated		Pound	117650	
Concrete Superstructure		Cu. Yds.	465.2	

SUPERSTRUCTURE DETAILS
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

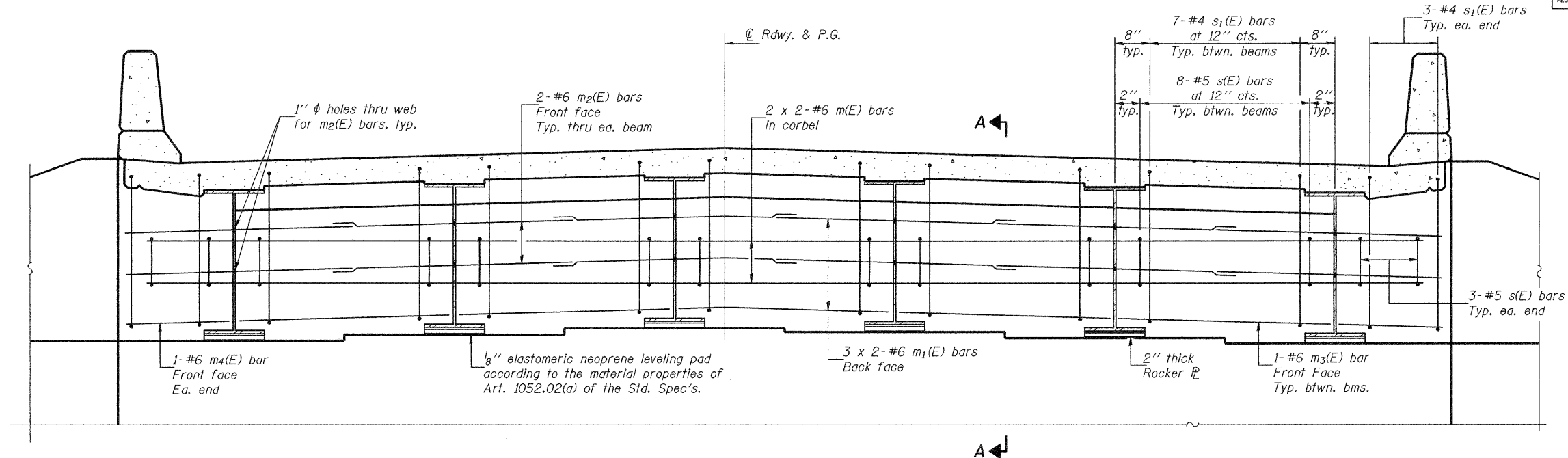
DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED *Thomas J. Domagalicki*
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 16 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	126	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

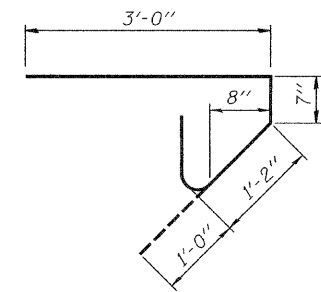
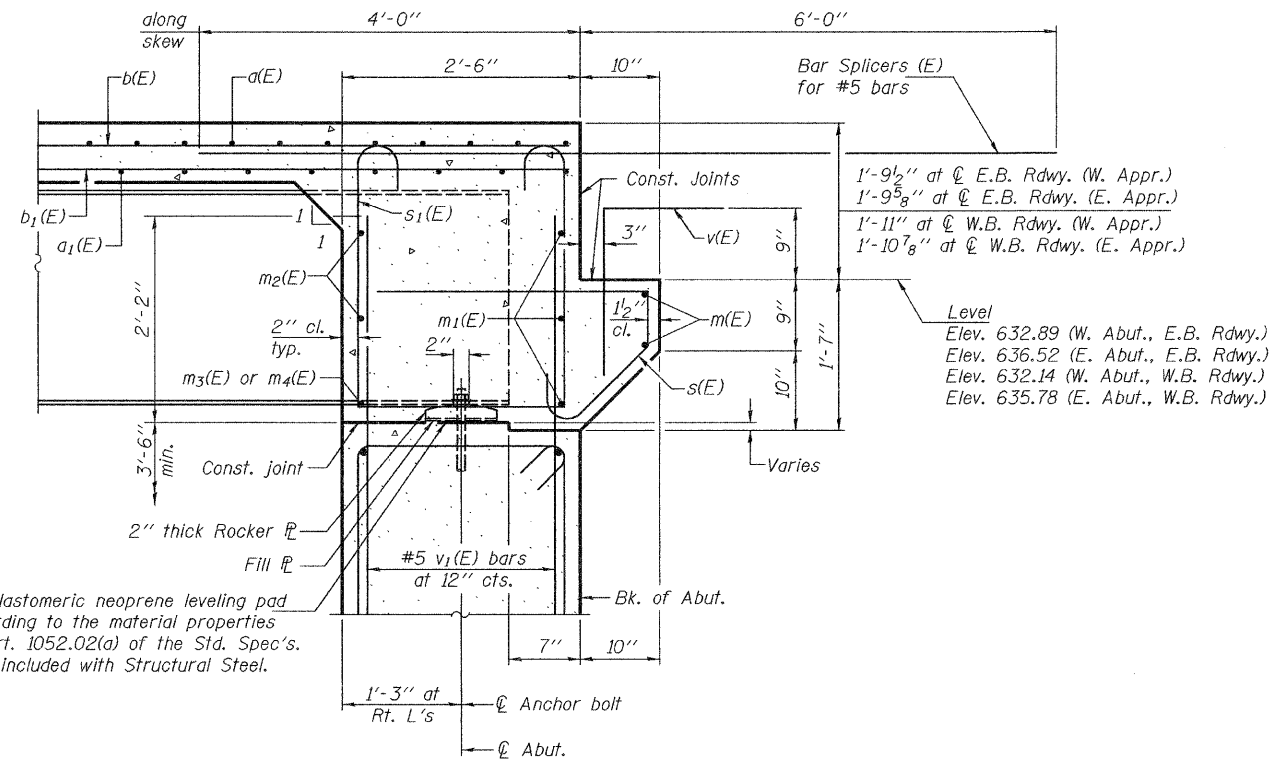
Contract No. 66731



DIAPHRAGM ELEVATION AT WEST ABUT. (E.B.)

(Looking East - Other abutments similar)

Notes: Reinforcement bars in diaphragm are billed with superstructure on sheet 15 of 35.
Concrete in diaphragm is included with Concrete Superstructure on sheet 15 of 35.
For details of bar $s_1(E)$ see sheet 15 of 35.
The $s(E)$ and $s_1(E)$ bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.



BAR s(E)

MIN. BAR LAP

#6 bar = 2'-7"

SECTION A-A

Dimensions at right L's to abutment, except as shown.

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

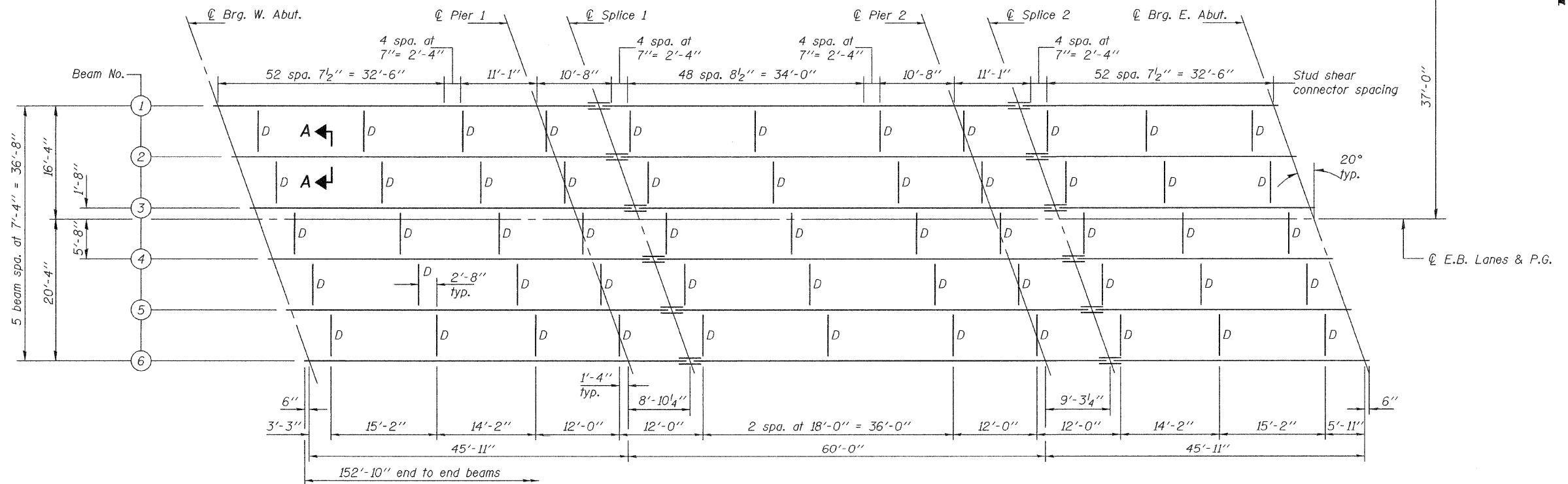
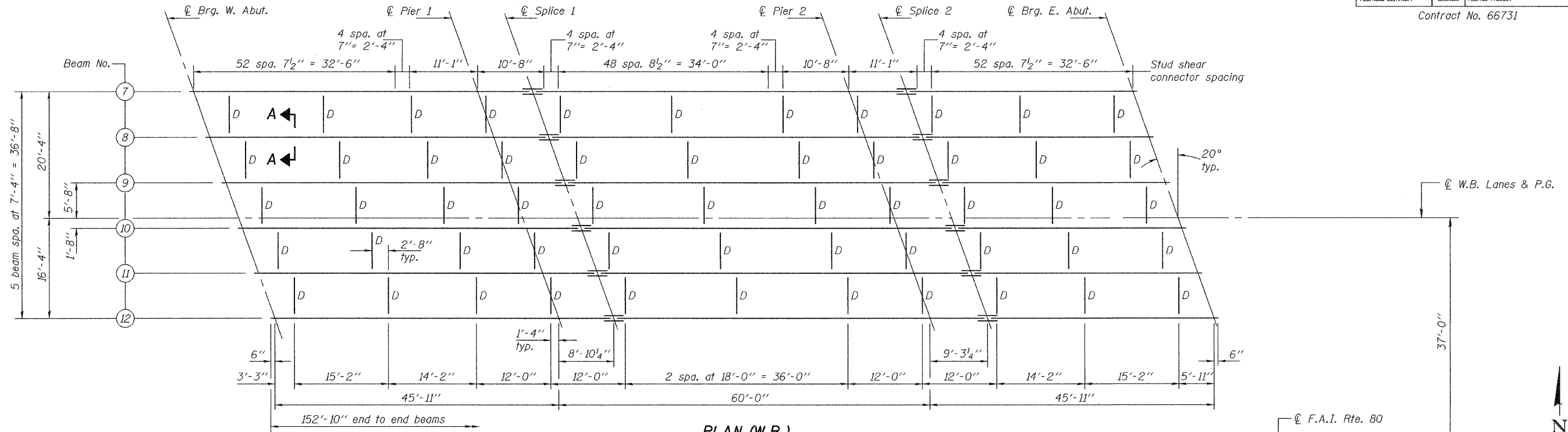
EXAMINED	Thomas J. Domagala	Sep. 30, 2008
PASSED	Ronald E. Anderson	

DIAPHRAGM DETAILS
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	121	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 66731



DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Donagabadi ENGINEER OF BRIDGE DESIGN
PASSED	Ronald E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

Sep. 30, 2008

Note: For Section A-A, see sheet 18 of 35.

STRUCTURAL STEEL
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

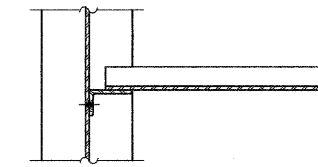
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET	SHEET NO. 18
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	122	35 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 66731

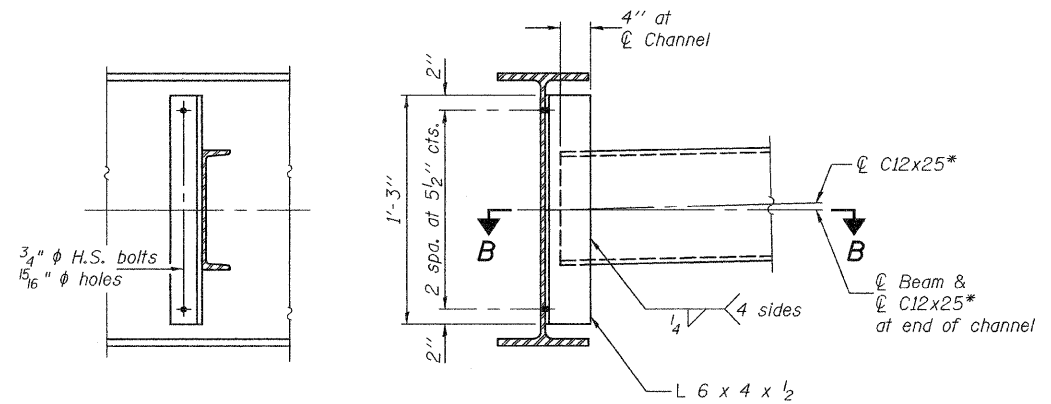
	0.4 Sp. 1 0.6 Sp. 3	Pier 1 or Pier 2	0.5 Sp. 2
I_s	(in ⁴) 5660	5660	5660
$I_c(n)$	(in ⁴) 15282		15282
$I_c(3n)$	(in ⁴) 11180		11180
S_s	(in ³) 414	414	414
$S_c(n)$	(in ³) 601		601
$S_c(3n)$	(in ³) 544		544
DC1	(k/ft) .916	.916	.916
M _{DC1}	(k) 127	264	148
DC2	(k/ft) .150	.150	.150
M _{DC2}	(k) 25	34	34
DW	(k/ft) .367	.367	.367
M _{DW}	(k) 60	82	83
M _{ℓ + Imp}	(k) 500	306	568
M _u (Strength I)	(k) 1155	1031	1346
φ _r M _n	(k) 3064		3064
f _s DC1	(ksi) 3.7	7.7	4.3
f _s DC2	(ksi) 0.6	1.0	0.8
f _s DW	(ksi) 1.3	2.4	1.8
f _s 1.3(ℓ+I)	(ksi) 13.0	11.5	14.7
f _s (Service II)	(ksi) 18.6	22.6	21.6
f _s (Total)(Strength I)	(ksi) 24.8	30.0	28.9
V _r	(k) 23.1		23.1

	Abutments	Piers
R _{DC1}	(k) 15.3	54.3
R _{DC2}	(k) 2.7	8.7
R _{DW}	(k) 6.7	21.2
R _{ℓ + Imp}	(k) 72.7	98.3
R _{Total}	(k) 97.4	182.5

- I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in.⁴ and in.³).
- $I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) due to short-term composite live loads (in.⁴ and in.³).
- $I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in.⁴ and in.³).
- DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: 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.).
M_{DC2}: 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.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_{ℓ + Imp}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + Imp}
φ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 (kip-ft.).
f_s (Service II): Sum of stresses as computed from the moments below (ksi).
M_{DC1} + M_{DC2} + M_{DW} + 1.3 M_{ℓ + Imp}
f_s (Total)(Strength I): Sum of stresses as computed from the moments below on non-compact section (ksi).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{ℓ + Imp}
V_r: Factored shear range in span computed according to Art. 6.10.10.

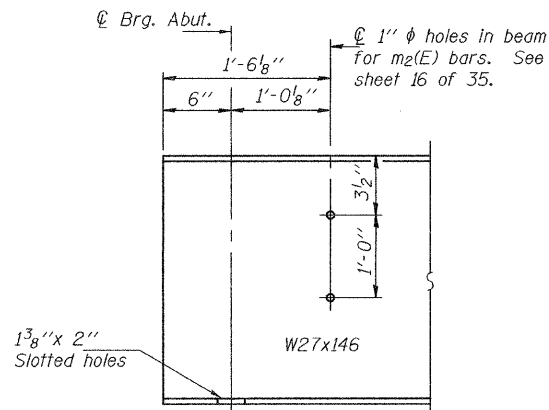


SECTION B-B

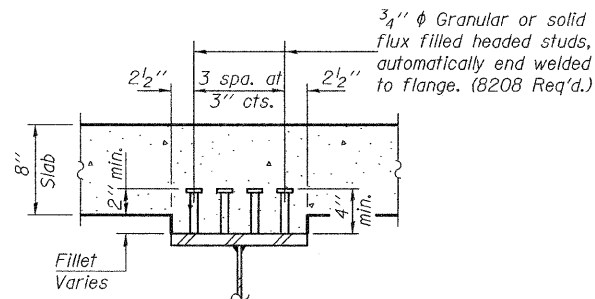


DIAPHRAGM D
(110 Required)

* Alternate channel C12x30 is permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section.

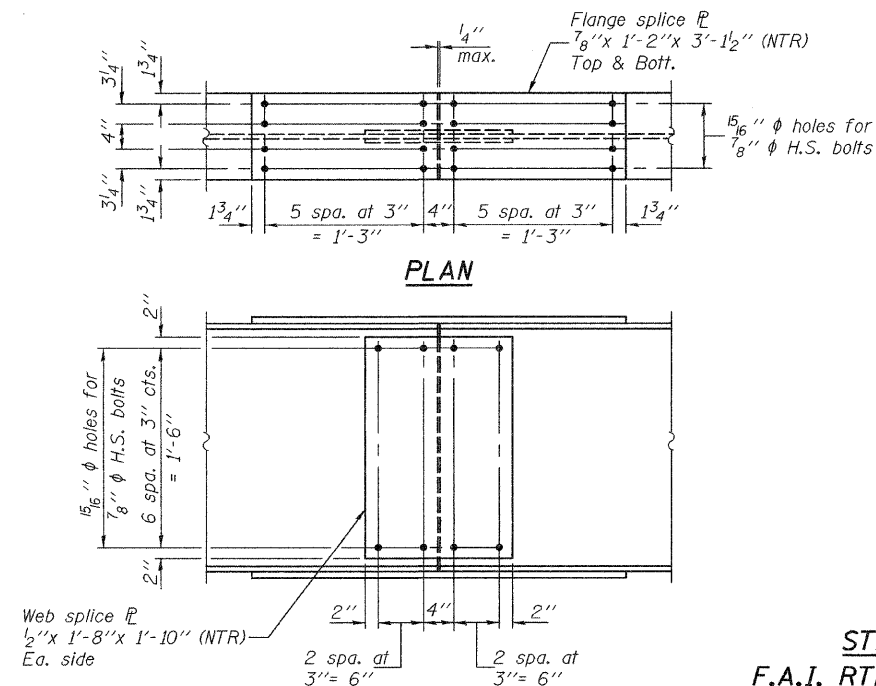


END OF BEAM ELEVATION



SECTION A-A

- Notes: Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.
All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
Two hardened washers required for each set of oversized holes.



ELEVATION
SPLICE DETAIL
(24 Required)

STRUCTURAL STEEL DETAILS
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

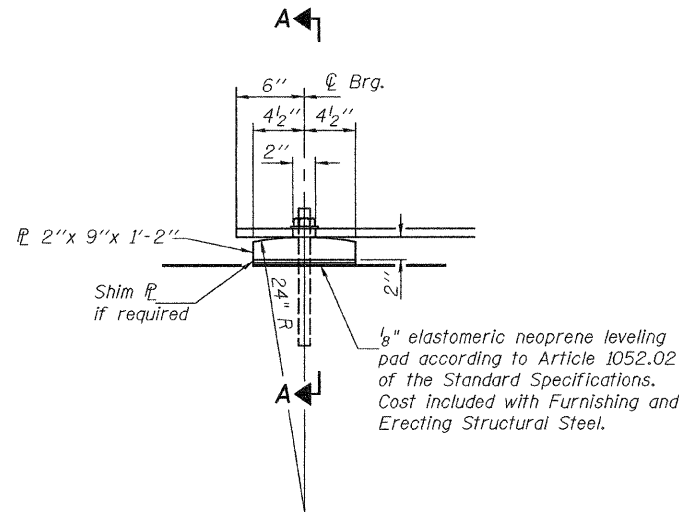
DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*

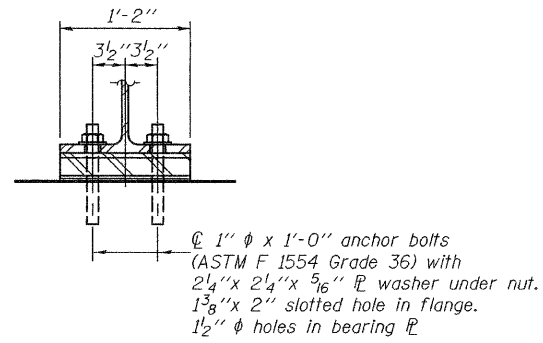
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 19 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	123	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

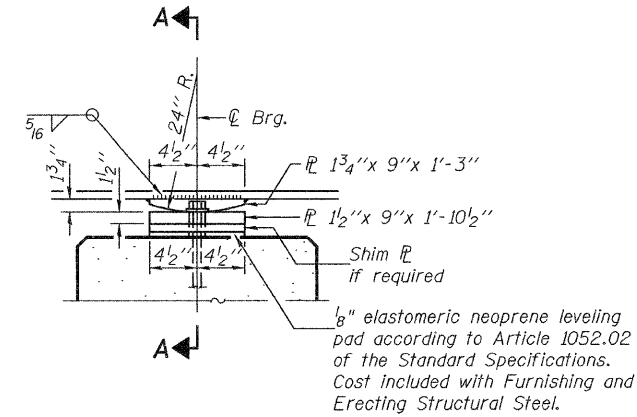
Contract No. 66731



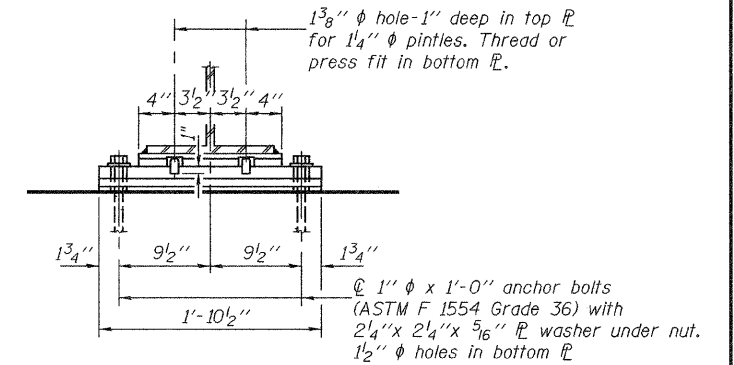
ELEVATION AT ABUTMENTS



SECTION A-A



ELEVATION AT PIERS



SECTION A-A

FIXED BEARING

(24 Required)

FIXED BEARING

(24 Required)

***TOP OF BEAM ELEVATIONS (E.B.)**

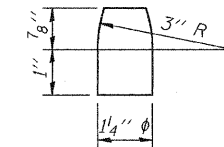
Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Brg. Pier 2	℄ Splice 2	℄ Brg. E. Abut.
Beam 1	633.59	634.61	634.81	636.01	636.23	637.16
Beam 2	633.79	634.81	635.01	636.21	636.43	637.36
Beam 3	633.96	634.98	635.18	636.39	636.61	637.54
Beam 4	633.96	634.99	635.18	636.39	636.61	637.54
Beam 5	633.91	634.93	635.13	636.33	636.55	637.48
Beam 6	633.82	634.84	635.04	636.24	636.46	637.39

*For fabrication use only.

***TOP OF BEAM ELEVATIONS (W.B.)**

Location	℄ Brg. W. Abut.	℄ Brg. Pier 1	℄ Splice 1	℄ Brg. Pier 2	℄ Splice 2	℄ Brg. E. Abut.
Beam 7	632.84	633.86	634.06	635.27	635.49	636.42
Beam 8	633.06	634.08	634.28	635.48	635.70	636.63
Beam 9	633.24	634.26	634.46	635.66	635.88	636.82
Beam 10	633.37	634.39	634.59	635.79	636.01	636.94
Beam 11	633.31	634.33	634.53	635.74	635.96	636.89
Beam 12	633.24	634.26	634.46	635.66	635.88	636.82

*For fabrication use only.



PINTLE

SHIM PLATES THICKNESS (E.B.)

Beam No.	W. Abut.	Pier 1	Pier 2	E. Abut.
1	---	---	---	---
2	---	---	---	---
3	5/8"	5/8"	---	---
4	5/8"	3/4"	---	---
5	---	---	---	---
6	---	---	---	---

SHIM PLATES THICKNESS (W.B.)

Beam No.	W. Abut.	Pier 1	Pier 2	E. Abut.
7	---	---	---	---
8	---	---	---	---
9	---	---	---	---
10	---	5/8"	5/8"	5/8"
11	---	---	---	---
12	---	---	---	---

Notes: 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.

All bearing plates and pintles shall be AASHTO M 270, Grade 50W.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36 ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

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

BEARING DETAILS

F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3

BUREAU COUNTY

STATION 413+39.84

STRUCTURE NO. 006-0167 (E.B.)

STRUCTURE NO. 006-0168 (W.B.)

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

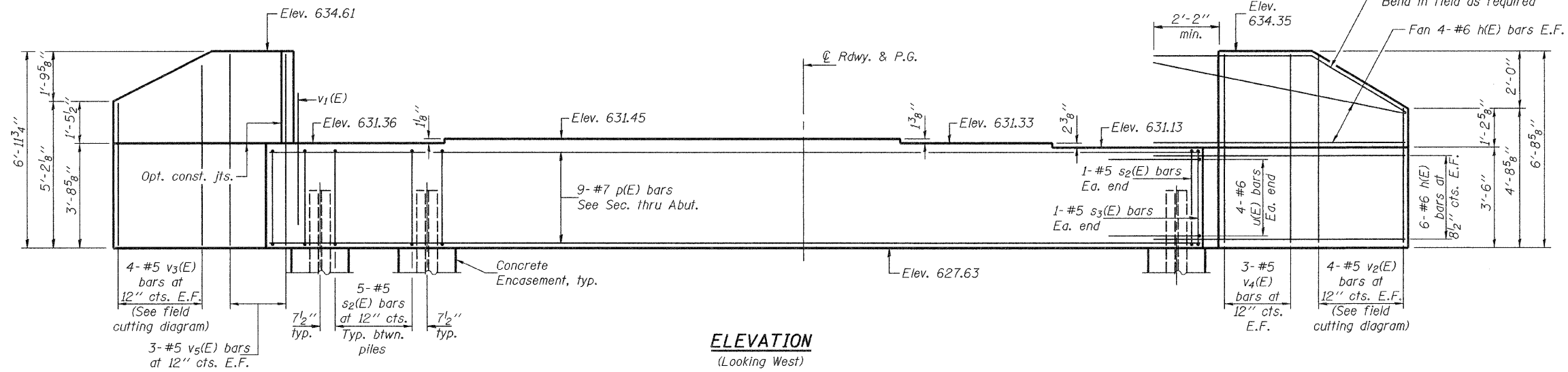
EXAMINED	Thomas J. Donagallo ENGINEER OF BRIDGE DESIGN
PASSED	Ronald E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

Sep. 30, 2008

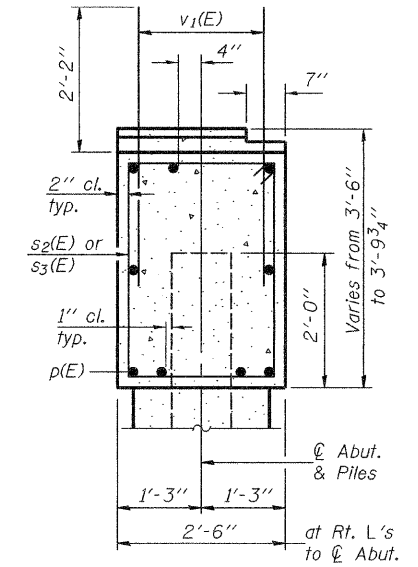
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 20 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	124	
ILLINOIS		FED. AID PROJECT-			

Contract No. 66731



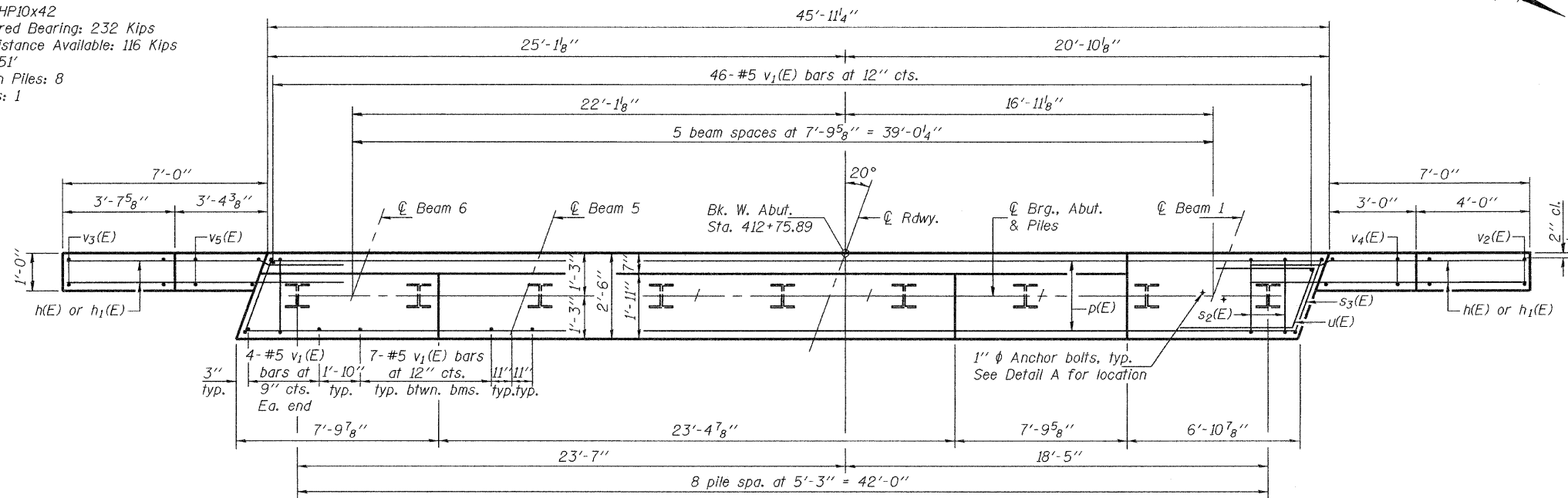
ELEVATION
(Looking West)



SEC. THRU ABUT.
(Looking South)

PILE DATA

Type: Steel HP10x42
Nominal Required Bearing: 232 Kips
Factored Resistance Available: 116 Kips
Est. Length: 51'
No. Production Piles: 8
No. Test Piles: 1



PLAN

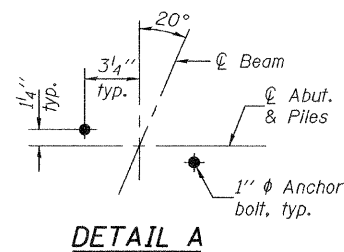
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#6	9'-5"	—
h ₁ (E)	4	#5	10'-4"	—
p(E)	9	#7	45'-7"	—
s ₂ (E)	42	#5	11'-7"	□
s ₃ (E)	2	#5	11'-11"	□
u(E)	8	#6	8'-2"	⌋
v ₁ (E)	89	#5	4'-4"	—
v ₂ (E)	4	#5	10'-8"	—
v ₃ (E)	4	#5	11'-6"	—
v ₄ (E)	6	#5	6'-4"	—
v ₅ (E)	6	#5	6'-8"	—
Structure Excavation		Cu. Yd.	84	
Concrete Structures		Cu. Yd.	19.1	
Reinforcement Bars, Epoxy Coated		Pound	2650	
Furnishing Steel Piles HP10x42		Foot	408	
Driving Piles		Foot	408	
Test Pile Steel HP10x42		Each	1	
Concrete Encasement		Cu. Yd.	3.1	
Anchor Bolts, 1" φ		Each	12	

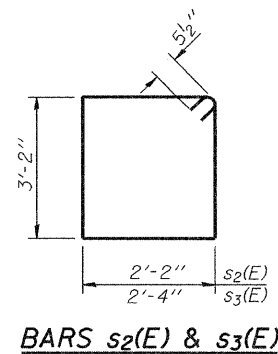
Notes: Four steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For details of piles and concrete encasement, see sheet 29 of 35.

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

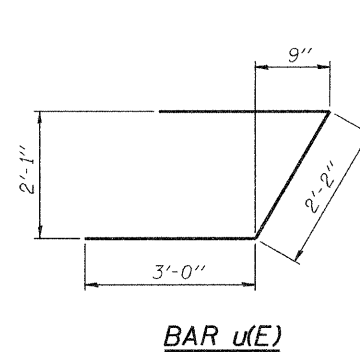
EXAMINED	Thomas J. Domagala	Sep. 30, 2008
PASSED	Ralph E. Anderson	



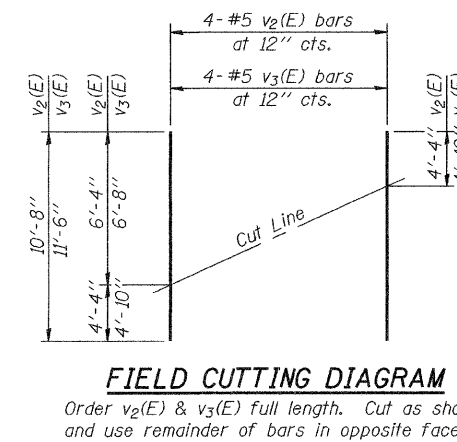
DETAIL A



BARS s₂(E) & s₃(E)



BAR u(E)



FIELD CUTTING DIAGRAM

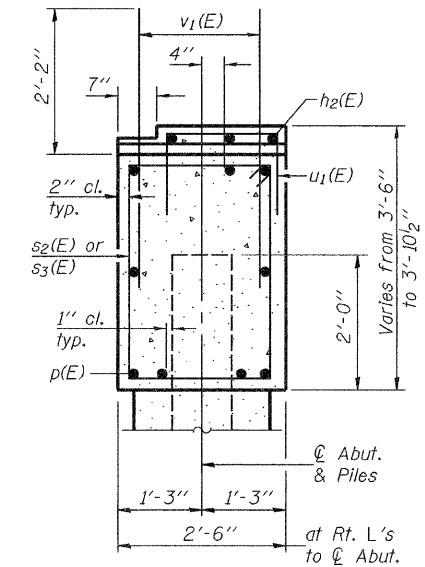
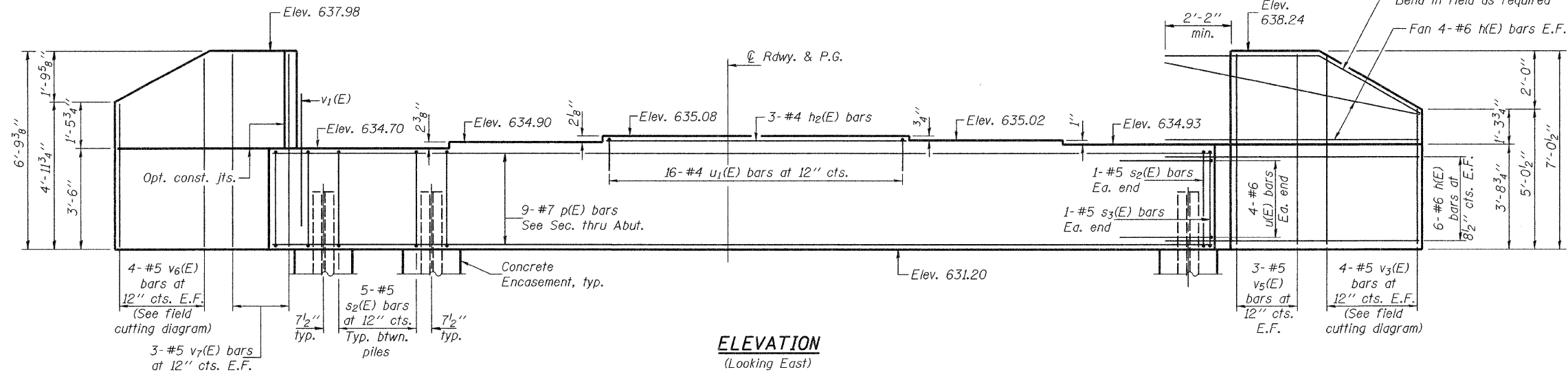
Order v₂(E) & v₃(E) full length. Cut as shown and use remainder of bars in opposite face.

WEST ABUTMENT (E.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 21 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	125	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

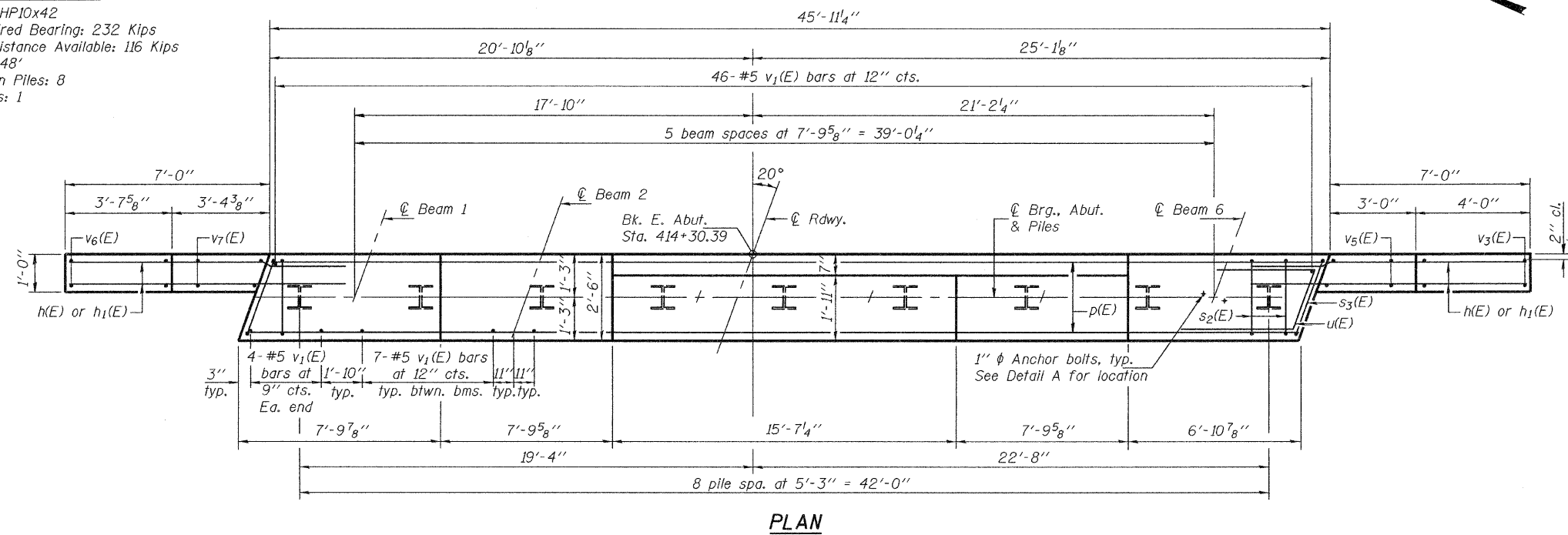
Contract No. 66731



SEC. THRU ABUT.
(Looking South)

PILE DATA

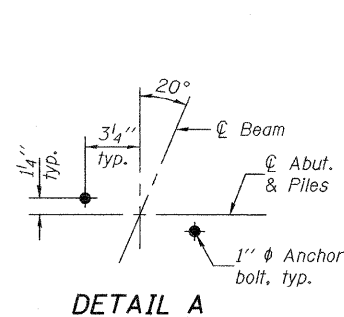
Type: Steel HP10x42
Nominal Required Bearing: 232 Kips
Factored Resistance Available: 116 Kips
Est. Length: 48'
No. Production Piles: 8
No. Test Piles: 1



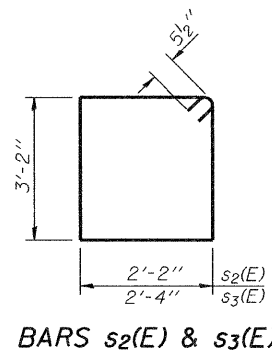
PLAN

BAR u1(E)

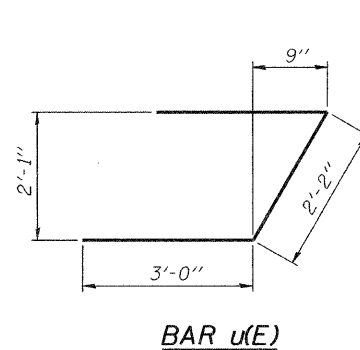
Notes: Four steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For details of piles and concrete encasement, see sheet 29 of 35.



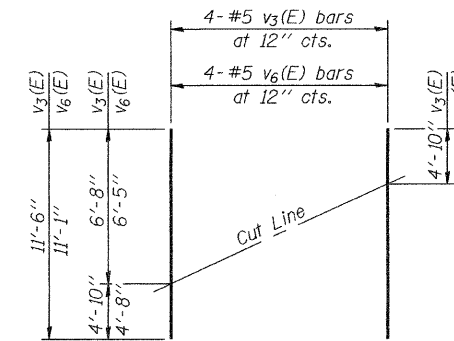
DETAIL A



BARS s2(E) & s3(E)



BAR u(E)



FIELD CUTTING DIAGRAM

Order v3(E) & v6(E) full length. Cut as shown and use remainder of bars in opposite face.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#6	9'-5"	—
h1(E)	4	#5	10'-4"	—
h2(E)	3	#4	15'-4"	—
p(E)	9	#7	45'-7"	—
s2(E)	42	#5	11'-7"	□
s3(E)	2	#5	11'-11"	□
u(E)	8	#6	8'-2"	┌
u1(E)	16	#4	3'-7"	┌
v1(E)	89	#5	4'-4"	—
v3(E)	4	#5	11'-6"	—
v5(E)	6	#5	6'-8"	—
v6(E)	4	#5	11'-1"	—
v7(E)	6	#5	6'-5"	—
Structure Excavation		Cu. Yd.	84	
Concrete Structures		Cu. Yd.	19.3	
Reinforcement Bars, Epoxy Coated		Pound	2730	
Furnishing Steel Piles HP10x42		Foot	384	
Driving Piles		Foot	384	
Test Pile Steel HP10x42		Each	1	
Concrete Encasement		Cu. Yd.	3.1	
Anchor Bolts, 1" phi		Each	12	

EAST ABUTMENT (E.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

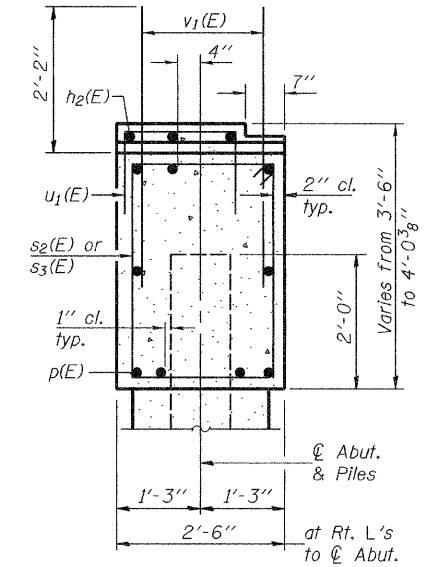
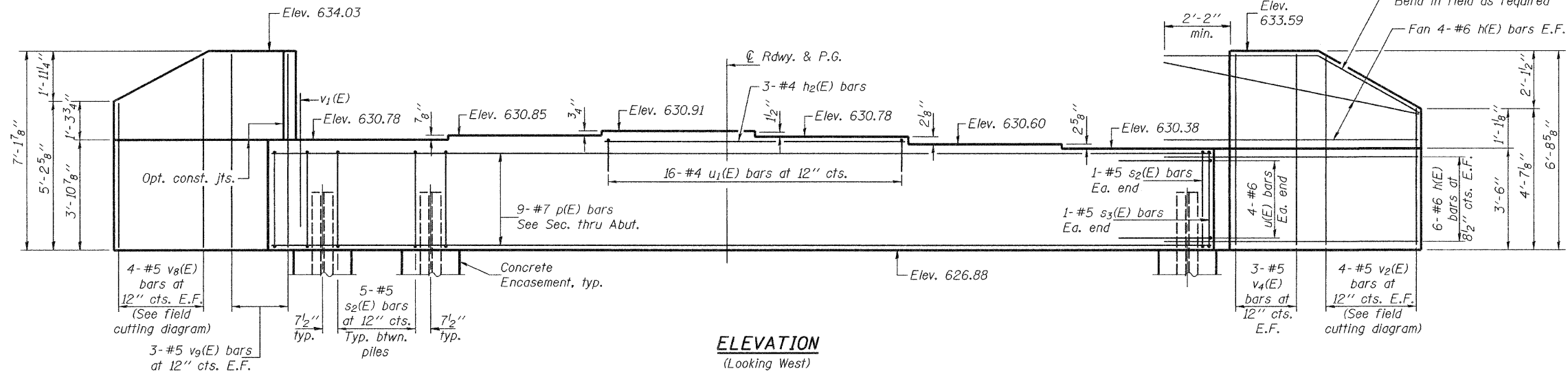
DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagala	Sep. 30, 2008
PASSED	Ronald E. Anderson	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

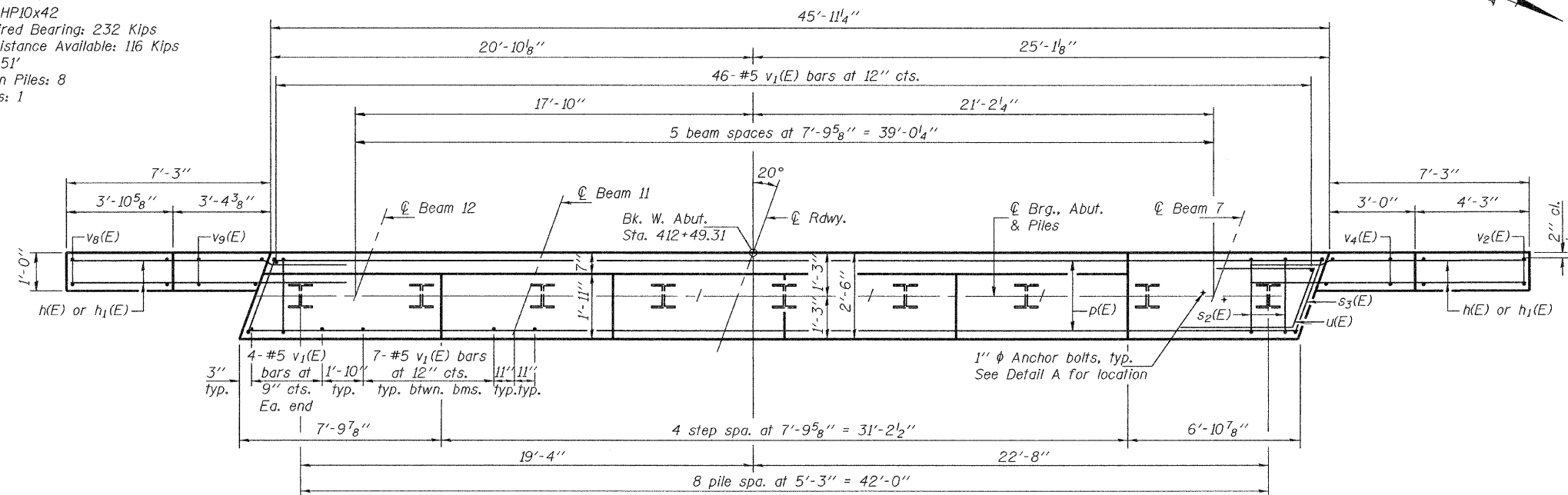
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 22 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	126	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 66731



PILE DATA

Type: Steel HP10x42
Nominal Required Bearing: 232 Kips
Factored Resistance Available: 116 Kips
Est. Length: 51'
No. Production Piles: 8
No. Test Piles: 1



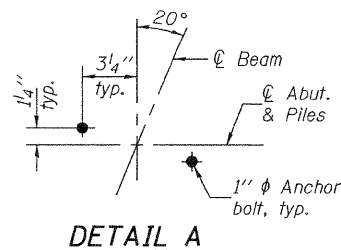
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#6	9'-5"	—
h1(E)	4	#5	10'-4"	—
h2(E)	3	#4	15'-4"	—
p(E)	9	#7	45'-7"	—
s2(E)	42	#5	11'-7"	□
s3(E)	2	#5	11'-11"	□
u(E)	8	#6	8'-2"	┌
u1(E)	16	#4	3'-7"	┌
v1(E)	89	#5	4'-4"	—
v2(E)	4	#5	10'-8"	—
v4(E)	6	#5	6'-4"	—
v8(E)	4	#5	11'-8"	—
v9(E)	6	#5	6'-10"	—
Structure Excavation			Cu. Yd.	84
Concrete Structures			Cu. Yd.	19.5
Reinforcement Bars, Epoxy Coated			Pound	2720
Furnishing Steel Piles HP10x42			Foot	408
Driving Piles			Foot	408
Test Pile Steel HP10x42			Each	1
Concrete Encasement			Cu. Yd.	3.1
Anchor Bolts, 1" φ			Each	12

Notes: Pour steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For details of piles and concrete encasement, see sheet 29 of 35.

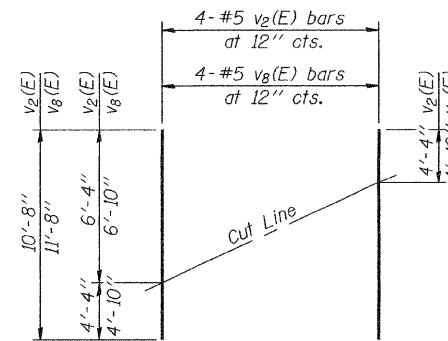
DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED *Thomas J. Donagabadi*
PASSED *Ronald E. Anderson*
ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES



BARS s2(E) & s3(E)

BAR u(E)



FIELD CUTTING DIAGRAM

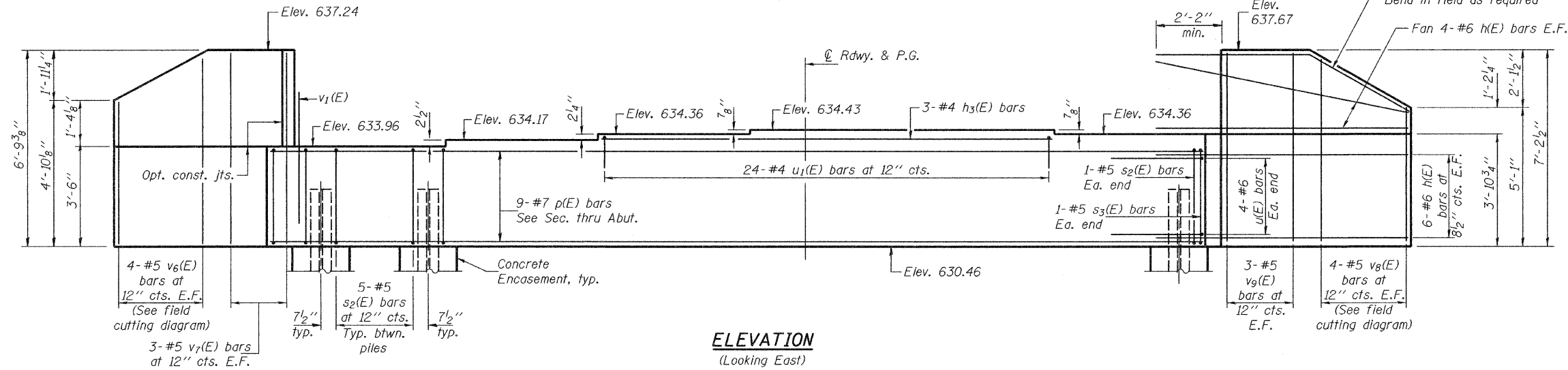
Order v2(E) & v8(E) full length. Cut as shown and use remainder of bars in opposite face.

WEST ABUTMENT (W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

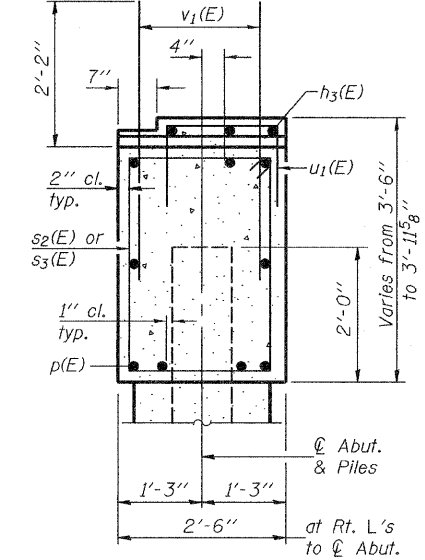
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 23 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	127	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 66731



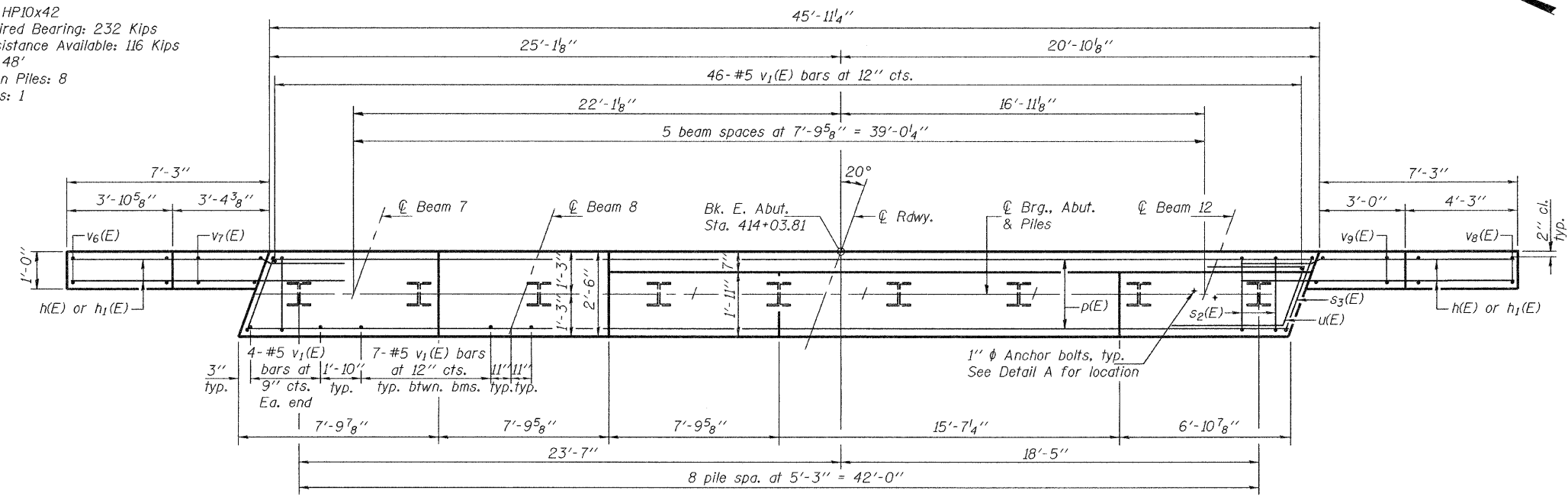
ELEVATION
(Looking East)



SEC. THRU ABUT.
(Looking South)

PILE DATA

Type: Steel HP10x42
Nominal Required Bearing: 232 Kips
Factored Resistance Available: 116 Kips
Est. Length: 48'
No. Production Piles: 8
No. Test Piles: 1

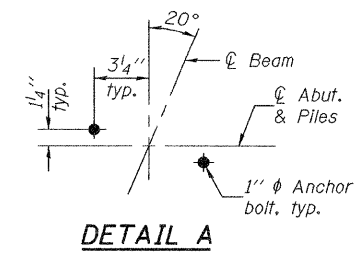


PLAN

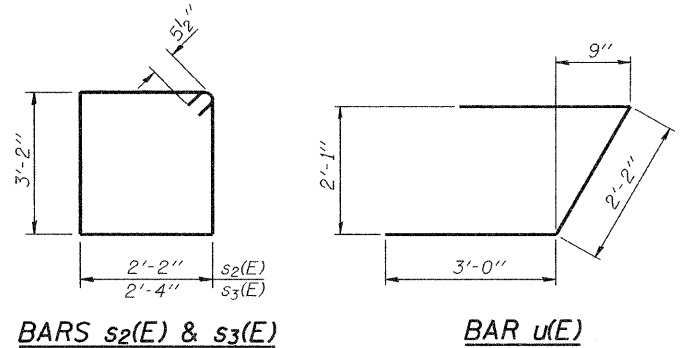
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#6	9'-5"	—
h1(E)	4	#5	10'-4"	—
h3(E)	3	#4	23'-1"	—
p(E)	9	#7	45'-7"	—
s2(E)	42	#5	11'-7"	□
s3(E)	2	#5	11'-11"	□
u(E)	8	#6	8'-2"	┌
u1(E)	24	#4	3'-7"	└
v1(E)	89	#5	4'-4"	—
v6(E)	4	#5	11'-1"	—
v7(E)	6	#5	6'-5"	—
v8(E)	4	#5	11'-8"	—
v9(E)	6	#5	6'-10"	—
Structure Excavation		Cu. Yd.	84	
Concrete Structures		Cu. Yd.	19.7	
Reinforcement Bars, Epoxy Coated		Pound	2760	
Furnishing Steel Piles HP10x42		Foot	384	
Driving Piles		Foot	384	
Test Pile Steel HP10x42		Each	1	
Concrete Encasement		Cu. Yd.	3.1	
Anchor Bolts, 1" φ		Each	12	

Notes: Four steps monolithically with cap.
Space reinforcement in cap to miss anchor bolts.
For details of piles and concrete encasement, see sheet 29 of 35.

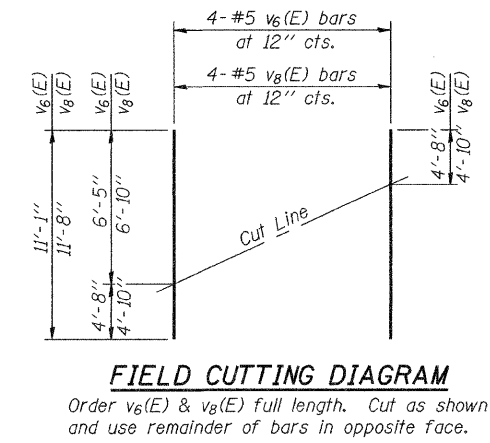


DETAIL A



BARS s2(E) & s3(E)

BAR u(E)



FIELD CUTTING DIAGRAM

Order v6(E) & v8(E) full length. Cut as shown and use remainder of bars in opposite face.

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

Sep. 30, 2008
EXAMINED *Thomas J. Domagala*
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

EAST ABUTMENT (W.B.)
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

Notes: Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 29 of 35.

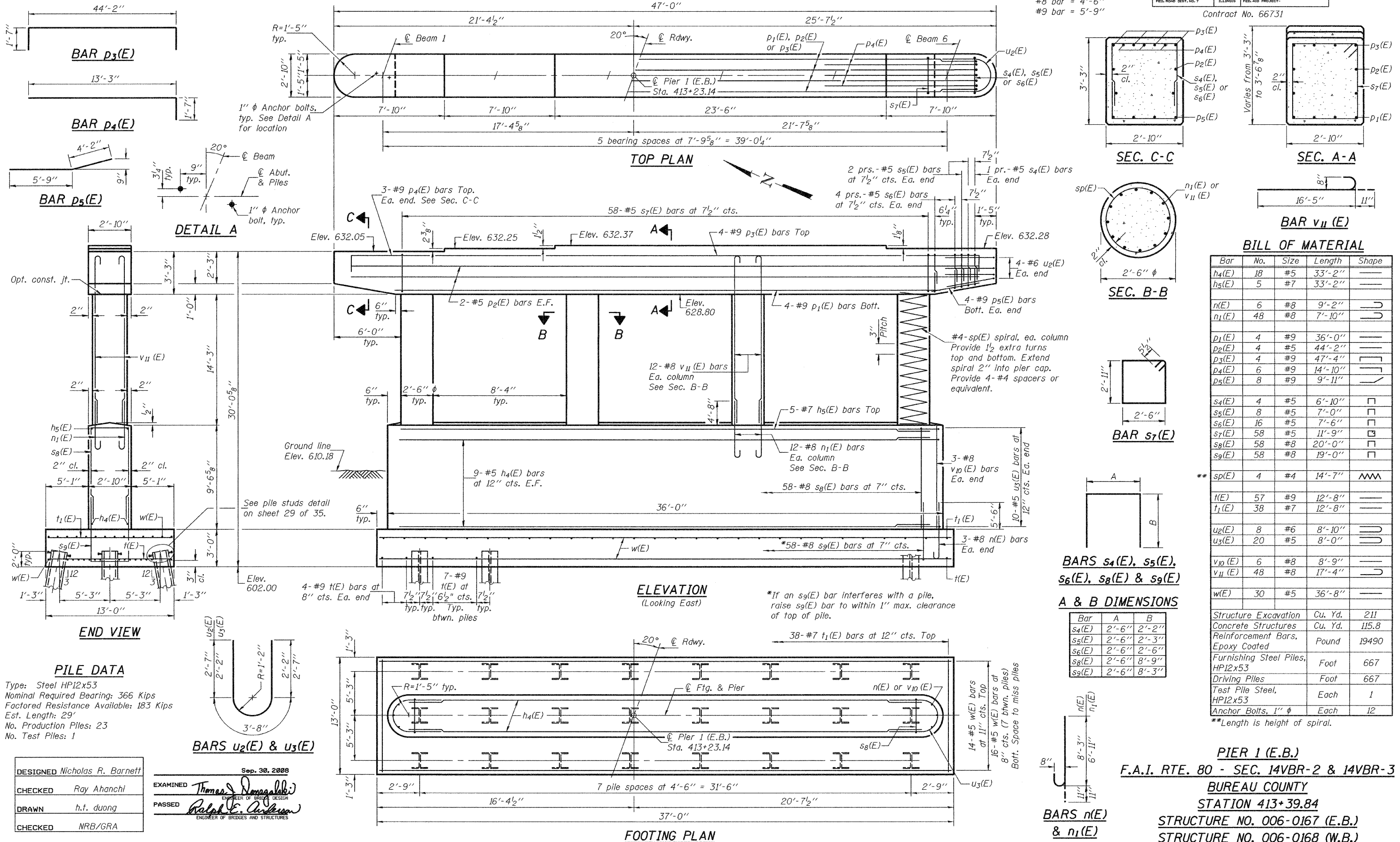
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MIN. BAR LAPS

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 24
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	128	35 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 66731



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h4(E)	18	#5	33'-2"	
h5(E)	5	#7	33'-2"	
n(E)	6	#8	9'-2"	
n1(E)	48	#8	7'-10"	
p1(E)	4	#9	36'-0"	
p2(E)	4	#5	44'-2"	
p3(E)	4	#9	47'-4"	
p4(E)	6	#9	14'-10"	
p5(E)	8	#9	9'-11"	
s4(E)	4	#5	6'-10"	
s5(E)	8	#5	7'-0"	
s6(E)	16	#5	7'-6"	
s7(E)	58	#5	11'-9"	
s8(E)	58	#8	20'-0"	
s9(E)	58	#8	19'-0"	
sp(E)	4	#4	14'-7"	
t(E)	57	#9	12'-8"	
t1(E)	38	#7	12'-8"	
u2(E)	8	#6	8'-10"	
u3(E)	20	#5	8'-0"	
v10(E)	6	#8	8'-9"	
v11(E)	48	#8	17'-4"	
w(E)	30	#5	36'-8"	
Structure Excavation			Cu. Yd.	211
Concrete Structures			Cu. Yd.	115.8
Reinforcement Bars, Epoxy Coated			Pound	19490
Furnishing Steel Piles, HP12x53			Foot	667
Driving Piles			Foot	667
Test Pile Steel, HP12x53			Each	1
Anchor Bolts, 1" φ			Each	12

PIER 1 (E.B.)

F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3

BUREAU COUNTY

STATION 413+39.84

STRUCTURE NO. 006-0167 (E.B.)

STRUCTURE NO. 006-0168 (W.B.)

PILE DATA

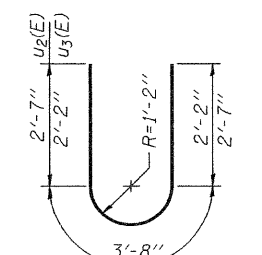
Type: Steel HP12x53
 Nominal Required Bearing: 366 Kips
 Factored Resistance Available: 183 Kips
 Est. Length: 29'
 No. Production Piles: 23
 No. Test Piles: 1

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagala
PASSED	Ralph E. Anderson

Sep. 30, 2008

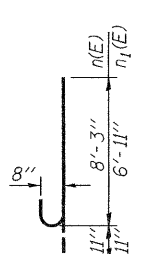
BARS u2(E) & u3(E)



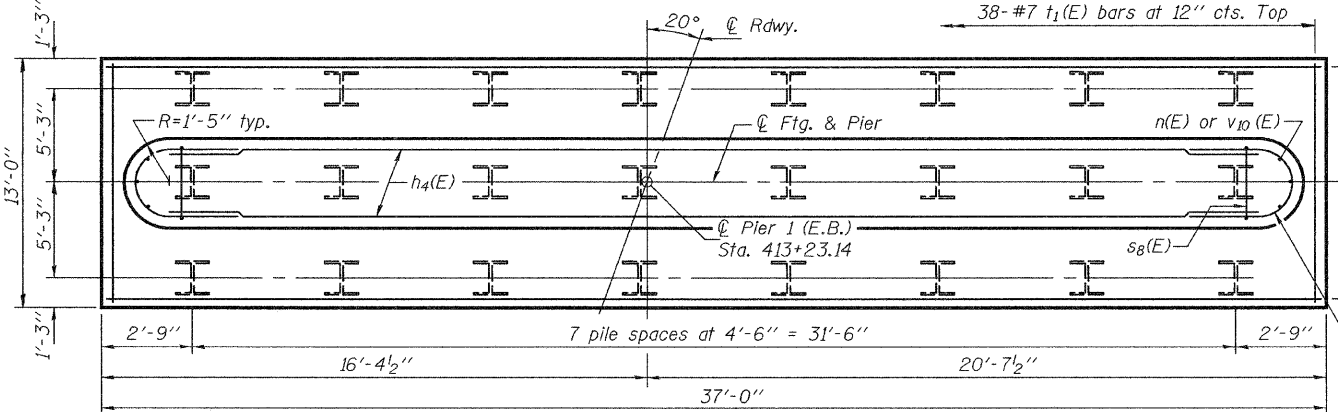
BARS s4(E), s5(E), s6(E), s8(E) & s9(E)

Bar	A	B
s4(E)	2'-6"	2'-2"
s5(E)	2'-6"	2'-3"
s6(E)	2'-6"	2'-6"
s8(E)	2'-6"	8'-9"
s9(E)	2'-6"	8'-3"

BARS n(E) & n1(E)



FOOTING PLAN



Notes: Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 29 of 35.

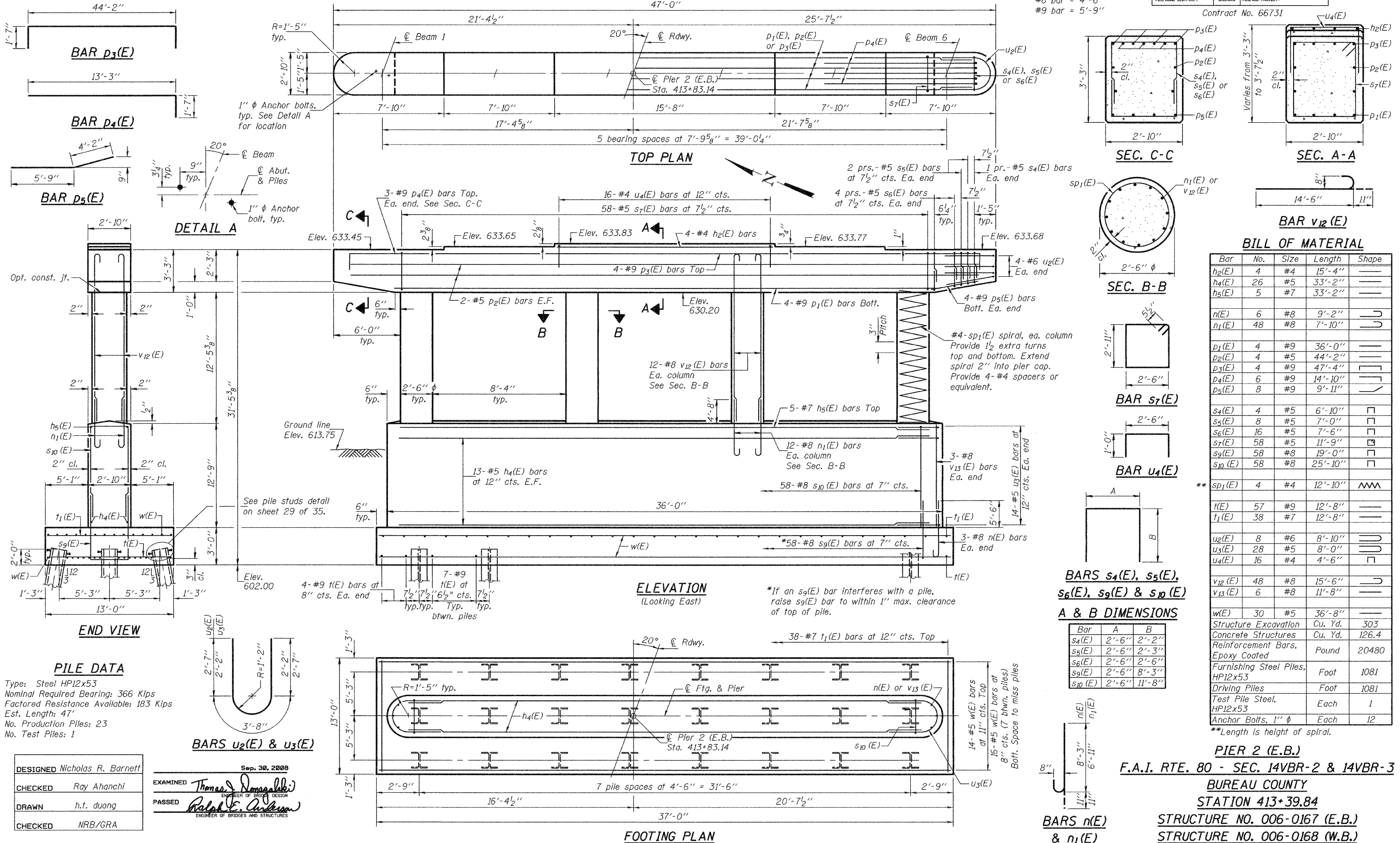
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MIN. BAR LAPS

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 25
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	129	35 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 66731



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	4	#4	15'-4"	—
h4(E)	26	#5	33'-2"	—
h5(E)	5	#7	33'-2"	—
n(E)	6	#8	9'-2"	U
n1(E)	48	#8	7'-10"	U
p1(E)	4	#9	36'-0"	—
p2(E)	4	#5	44'-2"	—
p3(E)	4	#9	47'-4"	—
p4(E)	6	#9	14'-10"	—
p5(E)	8	#9	9'-11"	—
s4(E)	4	#5	6'-10"	□
s5(E)	8	#5	7'-0"	□
s6(E)	16	#5	7'-6"	□
s7(E)	58	#5	11'-9"	□
s9(E)	58	#8	19'-0"	□
s10(E)	58	#8	25'-10"	□
sp1(E)	4	#4	12'-10"	W
t(E)	57	#9	12'-8"	—
t1(E)	38	#7	12'-8"	—
u2(E)	8	#6	8'-10"	—
u3(E)	28	#5	8'-0"	—
u4(E)	16	#4	4'-6"	□
v12(E)	48	#8	15'-6"	—
v13(E)	6	#8	11'-8"	—
w(E)	30	#5	36'-8"	—
Structure Excavation			Cu. Yd.	303
Concrete Structures			Cu. Yd.	126.4
Reinforcement Bars, Epoxy Coated			Pound	20480
Furnishing Steel Piles, HP12x53			Foot	1081
Driving Piles			Foot	1081
Test Pile Steel, HP12x53			Each	1
Anchor Bolts, 1" φ			Each	12

**Length is height of spiral.

PIER 2 (E.B.)

F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3

BUREAU COUNTY

STATION 413+39.84

STRUCTURE NO. 006-0167 (E.B.)

STRUCTURE NO. 006-0168 (W.B.)

PILE DATA
 Type: Steel HP12x53
 Nominal Required Bearing: 366 Kips
 Factored Resistance Available: 183 Kips
 Est. Length: 47'
 No. Production Piles: 23
 No. Test Piles: 1

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

Sep. 30, 2008
 EXAMINED *Thomas J. Damagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

Notes: Space reinforcement in cap to miss anchor bolts.
 Four steps monolithically with cap.
 For details of piles, see sheet 29 of 35.

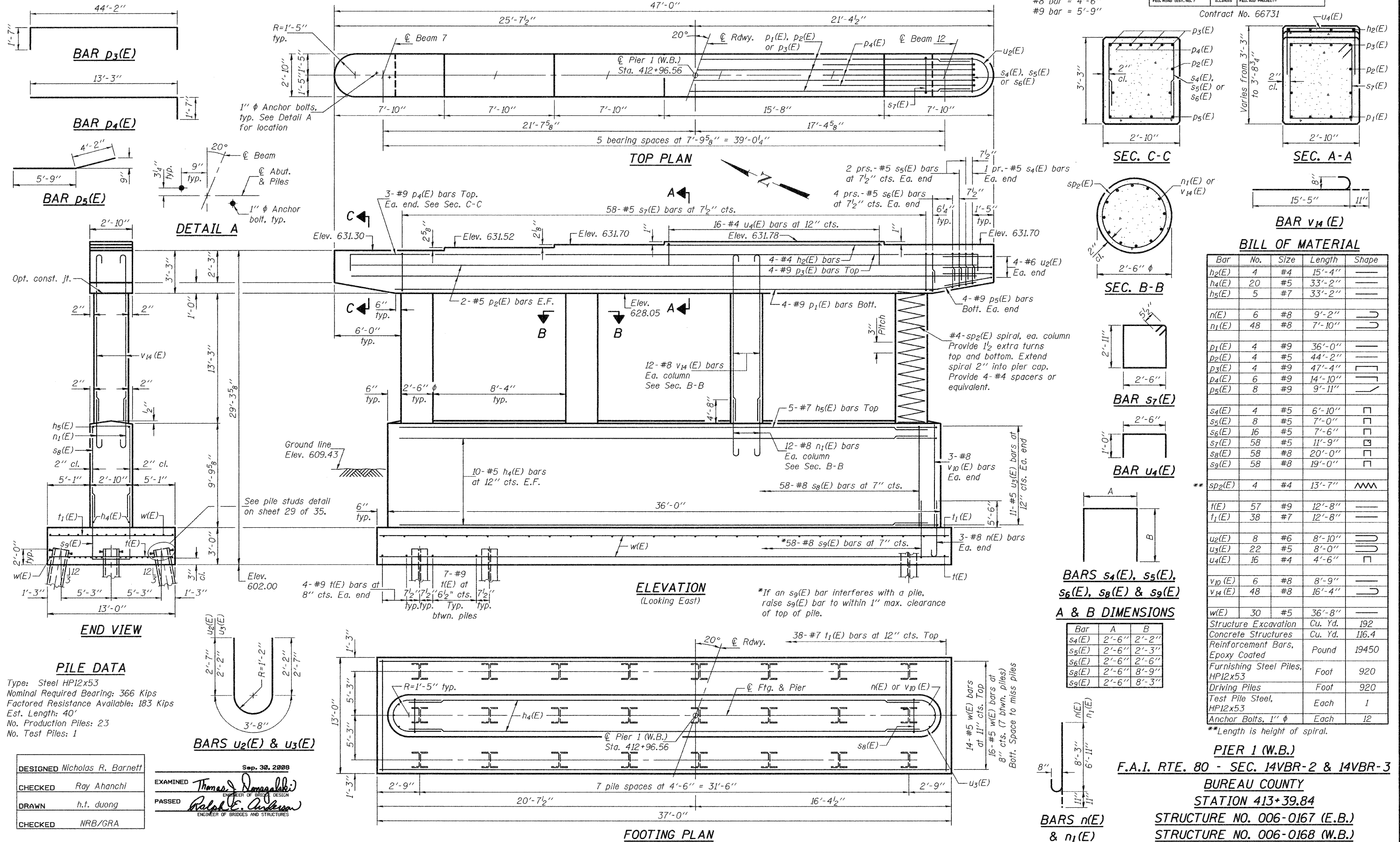
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MIN. BAR LAPS

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 26
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	130	35 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 66731



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	4	#4	15'-4"	—
h4(E)	20	#5	33'-2"	—
h5(E)	5	#7	33'-2"	—
n(E)	6	#8	9'-2"	U
n1(E)	48	#8	7'-10"	U
p1(E)	4	#9	36'-0"	—
p2(E)	4	#5	44'-2"	—
p3(E)	4	#9	47'-4"	—
p4(E)	6	#9	14'-10"	—
p5(E)	8	#9	9'-11"	—
s4(E)	4	#5	6'-10"	□
s5(E)	8	#5	7'-0"	□
s6(E)	16	#5	7'-6"	□
s7(E)	58	#5	11'-9"	□
s8(E)	58	#8	20'-0"	□
s9(E)	58	#8	19'-0"	□
sp2(E)	4	#4	13'-7"	W
t(E)	57	#9	12'-8"	—
t1(E)	38	#7	12'-8"	—
u2(E)	8	#6	8'-10"	U
u3(E)	22	#5	8'-0"	U
u4(E)	16	#4	4'-6"	□
v10(E)	6	#8	8'-9"	—
v14(E)	48	#8	16'-4"	U
w(E)	30	#5	36'-8"	—
Structure Excavation			Cu. Yd.	192
Concrete Structures			Cu. Yd.	116.4
Reinforcement Bars, Epoxy Coated			Pound	19450
Furnishing Steel Piles, HP12x53			Foot	920
Driving Piles			Foot	920
Test Pile Steel, HP12x53			Each	1
Anchor Bolts, 1" φ			Each	12

PIER 1 (W.B.)
 F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
 BUREAU COUNTY
 STATION 413+39.84
 STRUCTURE NO. 006-0167 (E.B.)
 STRUCTURE NO. 006-0168 (W.B.)

PILE DATA
 Type: Steel HP12x53
 Nominal Required Bearing: 366 Kips
 Factored Resistance Available: 183 Kips
 Est. Length: 40'
 No. Production Piles: 23
 No. Test Piles: 1

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

EXAMINED *Thomas J. Domagala*
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

Notes: Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 29 of 35.

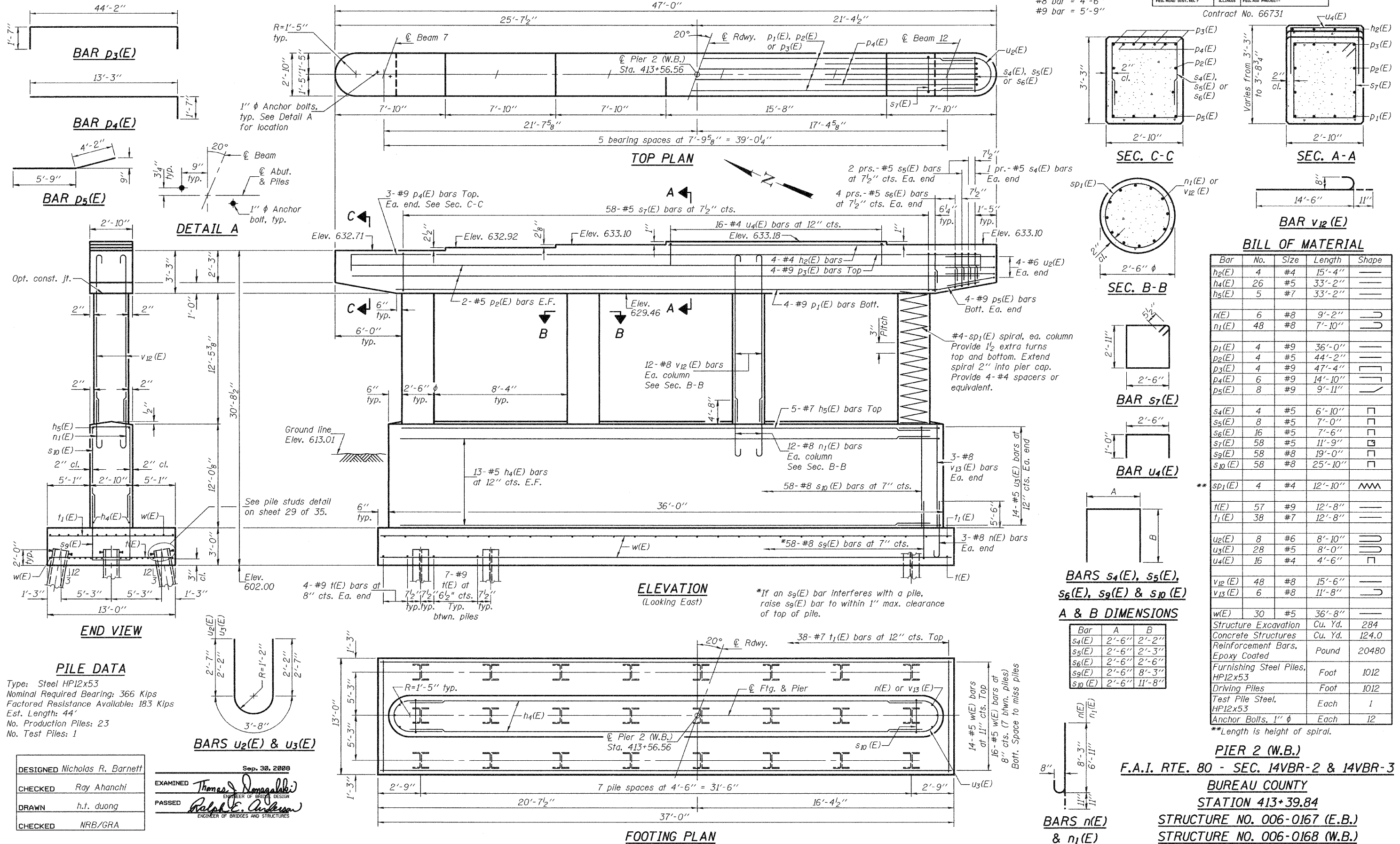
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

MIN. BAR LAPS

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 27
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	131	35 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract No. 66731



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h2(E)	4	#4	15'-4"	—
h4(E)	26	#5	33'-2"	—
h5(E)	5	#7	33'-2"	—
n(E)	6	#8	9'-2"	—
n1(E)	48	#8	7'-10"	—
p1(E)	4	#9	36'-0"	—
p2(E)	4	#5	44'-2"	—
p3(E)	4	#9	47'-4"	—
p4(E)	6	#9	14'-10"	—
p5(E)	8	#9	9'-11"	—
s4(E)	4	#5	6'-10"	□
s5(E)	8	#5	7'-0"	□
s6(E)	16	#5	7'-6"	□
s7(E)	58	#5	11'-9"	□
s8(E)	58	#8	19'-0"	□
s9(E)	58	#8	25'-10"	□
s10(E)	58	#8	25'-10"	□
sp1(E)	4	#4	12'-10"	~
t(E)	57	#9	12'-8"	—
t1(E)	38	#7	12'-8"	—
u2(E)	8	#6	8'-10"	—
u3(E)	28	#5	8'-0"	—
u4(E)	16	#4	4'-6"	□
v12(E)	48	#8	15'-6"	—
v13(E)	6	#8	11'-8"	—
w(E)	30	#5	36'-8"	—
Structure Excavation			Cu. Yd.	284
Concrete Structures			Cu. Yd.	124.0
Reinforcement Bars, Epoxy Coated			Pound	20480
Furnishing Steel Piles, HP12x53			Foot	1012
Driving Piles			Foot	1012
Test Pile Steel, HP12x53			Each	1
Anchor Bolts, 1" φ			Each	12

PIER 2 (W.B.)

F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3

BUREAU COUNTY

STATION 413+39.84

STRUCTURE NO. 006-0167 (E.B.)

STRUCTURE NO. 006-0168 (W.B.)

PILE DATA

Type: Steel HP12x53
 Nominal Required Bearing: 366 Kips
 Factored Resistance Available: 183 Kips
 Est. Length: 44'
 No. Production Piles: 23
 No. Test Piles: 1

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

EXAMINED *Thomas J. Domagala*
 ENGINEER OF BRIDGE DESIGN
 PASSED *Ralph E. Anderson*
 ENGINEER OF BRIDGES AND STRUCTURES

Sep. 30, 2008

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	132
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

Contract No. 66731

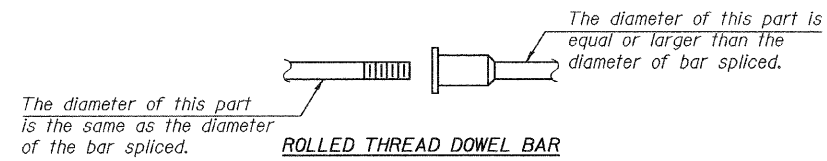
SHEET NO. 28
35 SHEETS

NOTES

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

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
 - ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

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



ROLLED THREAD DOWEL BAR



** ONE PIECE

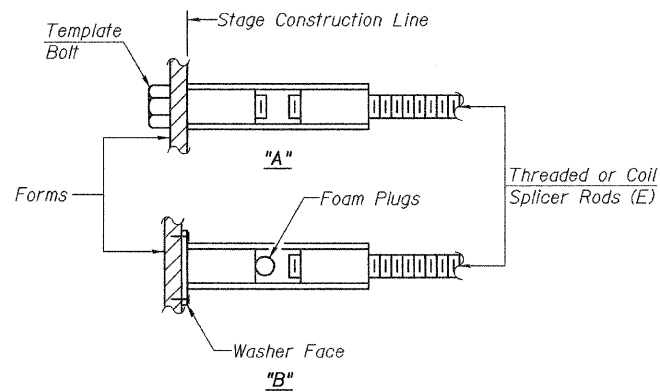
Wire Connector



WELDED SECTIONS

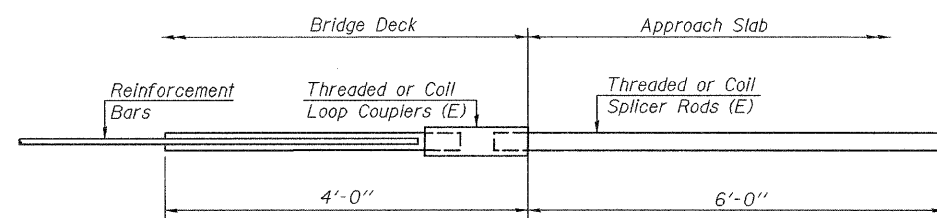
BAR SPLICER ASSEMBLY ALTERNATIVES

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



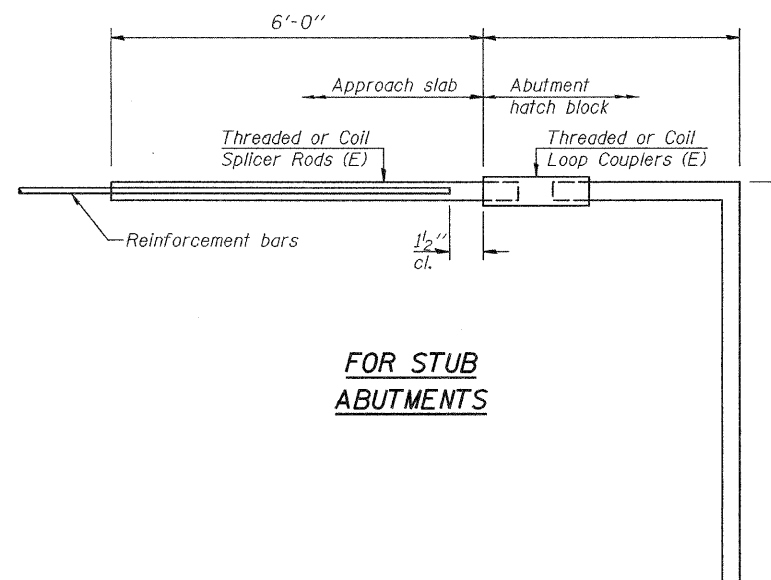
INSTALLATION AND SETTING METHODS

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



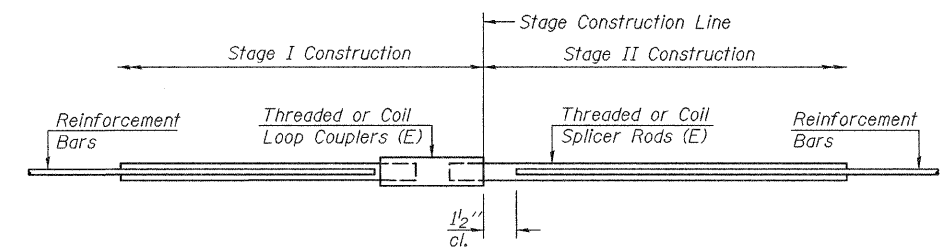
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 160



FOR STUB ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagala	Sep. 30, 2008
PASSED	Ralph E. Anderson	

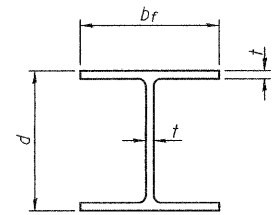
BSD-1 11-1-06

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	133
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

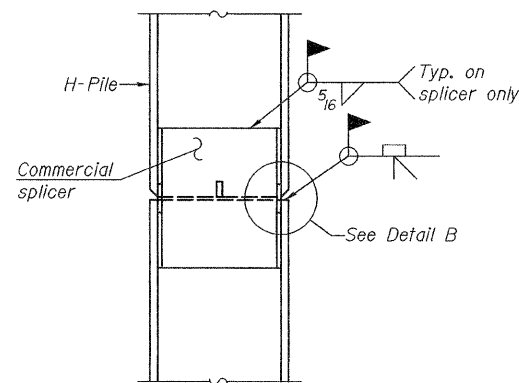
Contract No. 66731

SHEET NO. 29
35 SHEETS

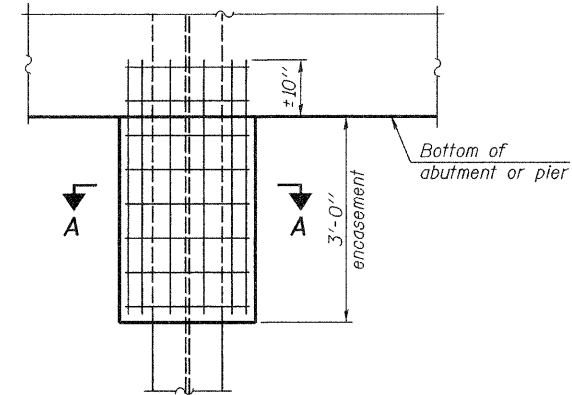


STEEL PILE TABLE

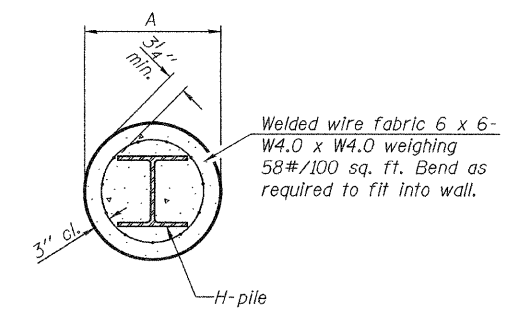
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11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



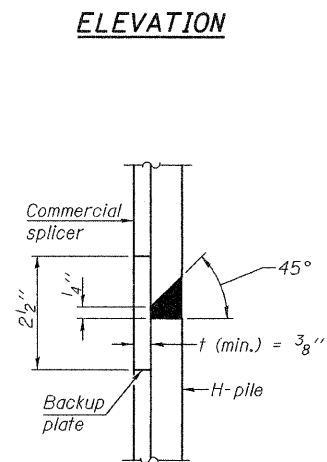
ELEVATION



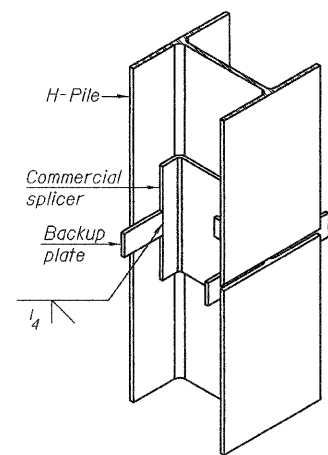
SECTION A-A

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

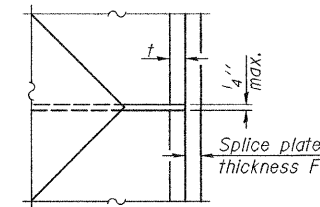
PILE ENCASEMENT



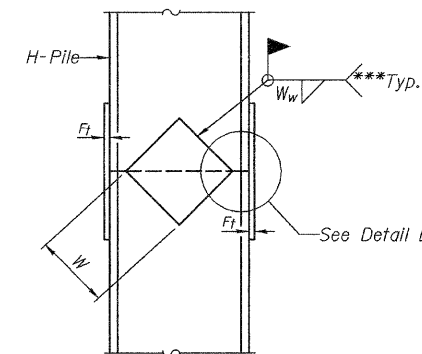
DETAIL "B"



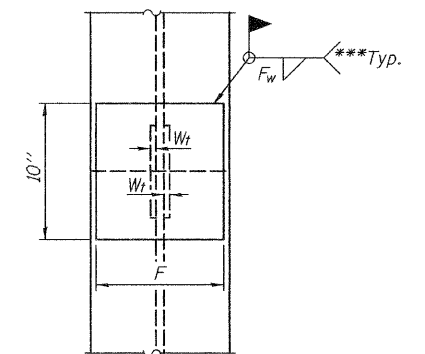
ISOMETRIC VIEW



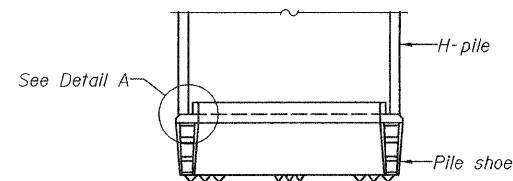
DETAIL D



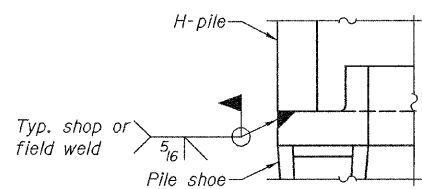
ELEVATION



END VIEW

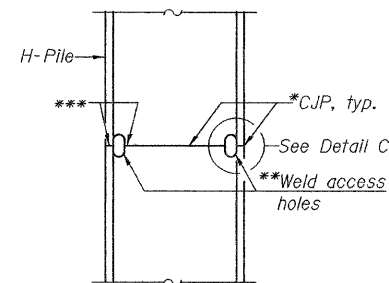


ELEVATION

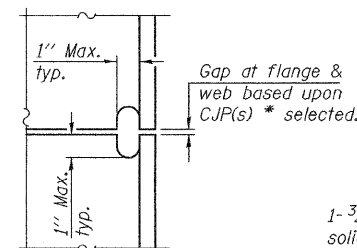


DETAIL A

H-PILE SHOE ATTACHMENT

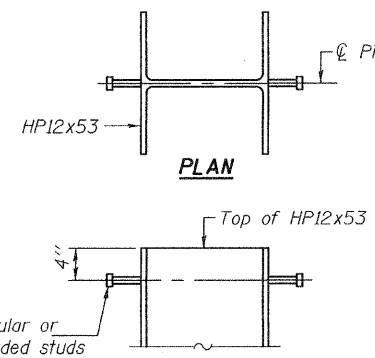


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



ELEVATION

PILE STUDS DETAIL

Cost shall be included with Furnishing Steel Piles, HP12x53.

1-3/4" φ x 4" granular or solid flux filled headed studs automatically end welded (Typ. ea. flange; ea. pile)

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

WELDED PLATE FIELD SPLICE

STEEL H-PILE DETAILS
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagala ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

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

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

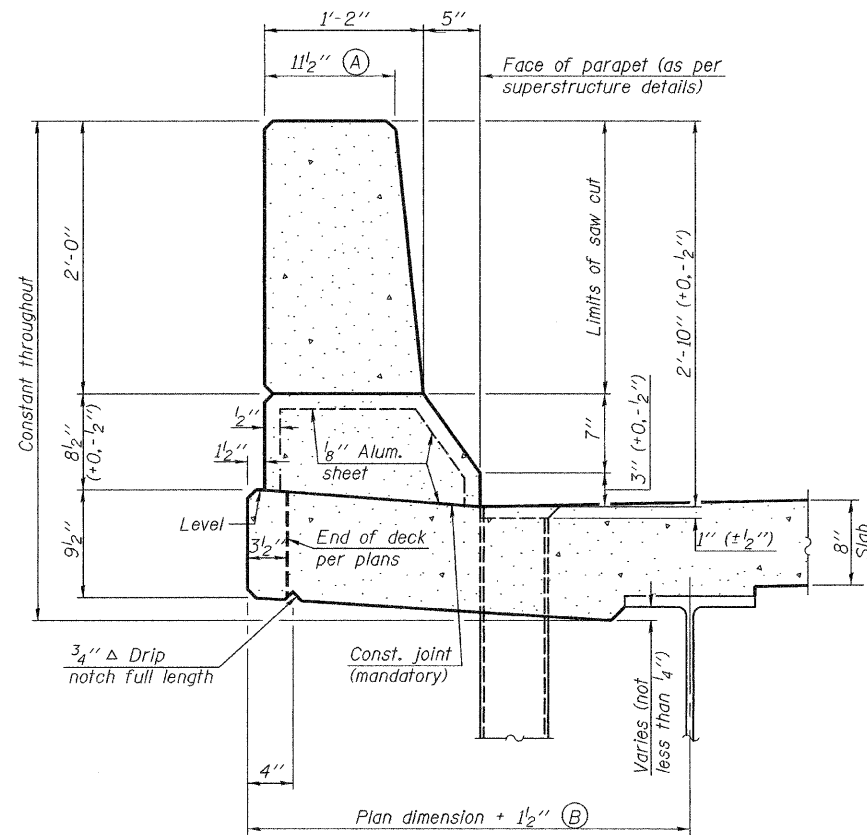
***Interrupt welds 1/4" from end of each pile.

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

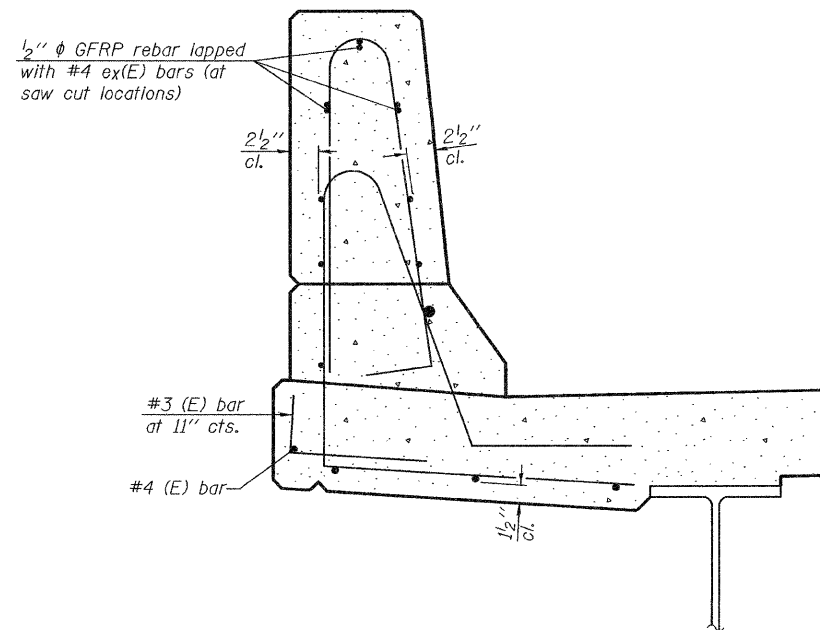
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 30 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	134	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

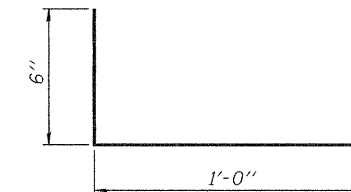
Contract No. 66731



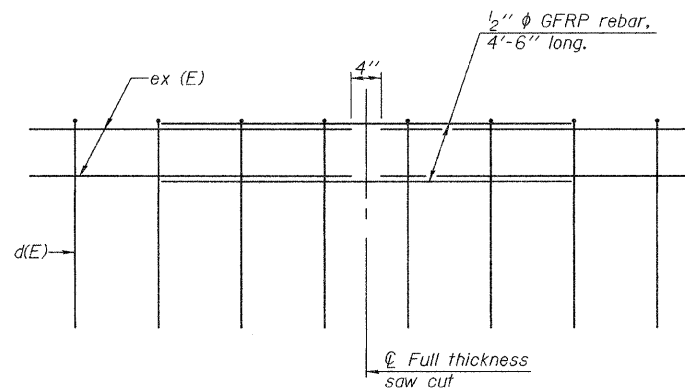
SECTION
(Showing dimensions)



SECTION
(Showing reinforcement clearances for slip forming and additional reinforcement bars)



#3 (E) BAR



GFRP REBAR STIFFENING DETAIL

(Place as shown in parapet section at each parapet joint location.)

**CONCRETE PARAPET
SLIPFORMING OPTION**
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.f. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Romagallo ENGINEER OF BRIDGE DESIGN
PASSED	Ralph E. Anderson ENGINEER OF BRIDGES AND STRUCTURES

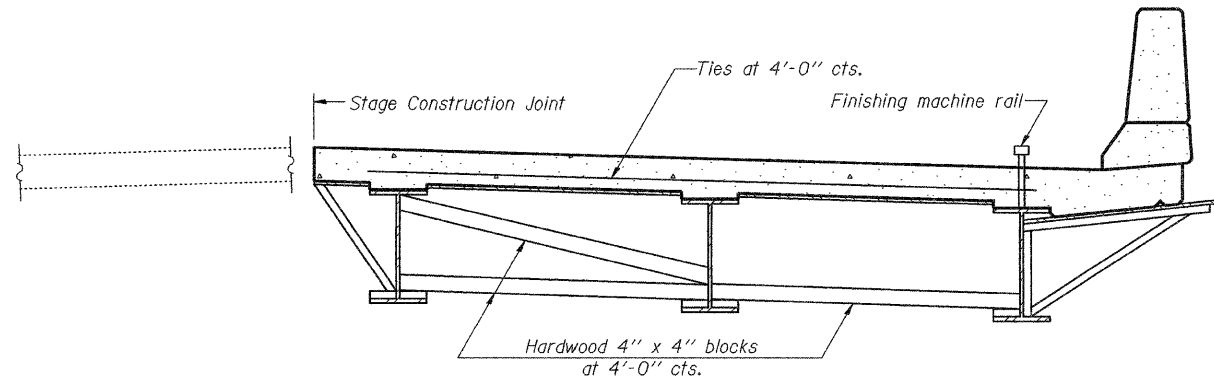
SFP-34

9-3-07

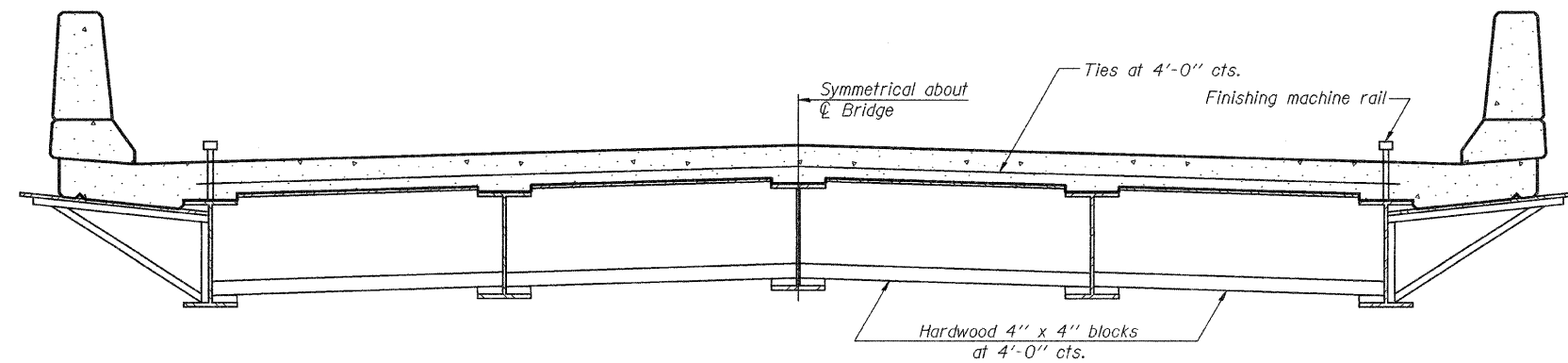
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 31 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	135	
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

Contract No. 66731



**FORM BRACES FOR
STAGE CONSTRUCTION**



**FORM BRACES FOR
STANDARD CONSTRUCTION**

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.

DESIGNED	Nicholas R. Barnett
CHECKED	Ray Ahanchi
DRAWN	h.t. duong
CHECKED	NRB/GRA

EXAMINED	Thomas J. Domagala	Sep. 30, 2008
PASSED	Ronald E. Anderson	

SB-1

11-1-06

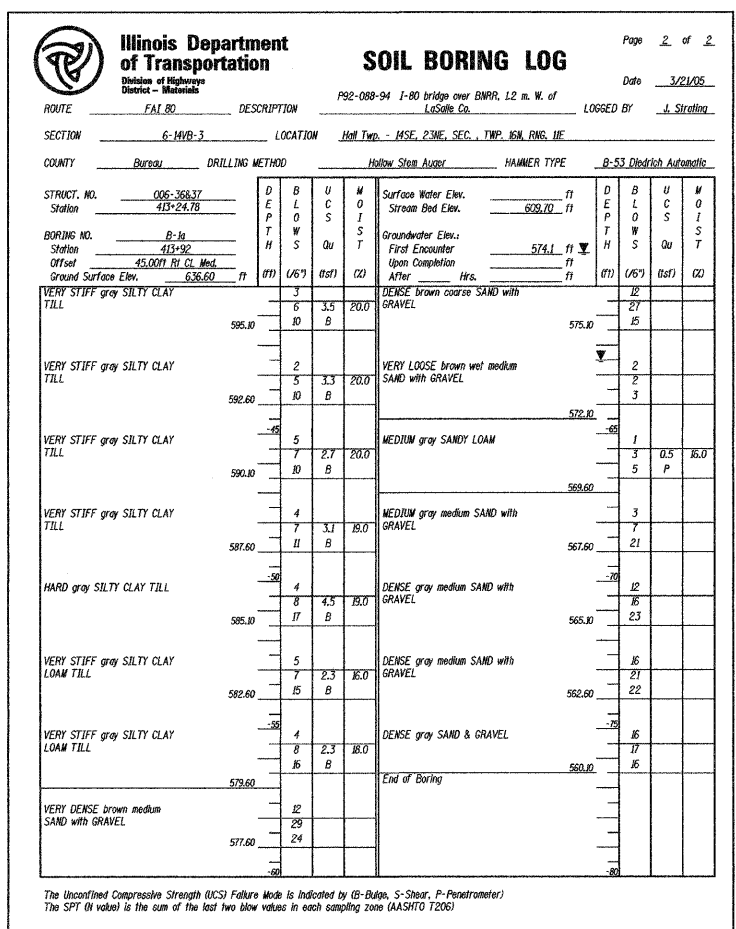
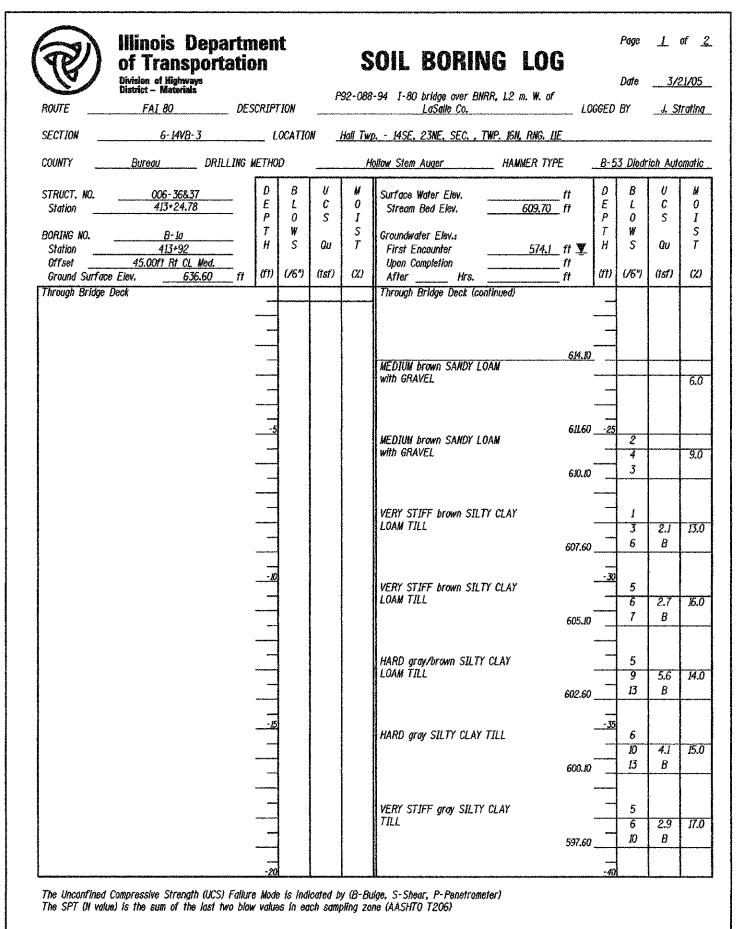
**CANTILEVER FORMING BRACKETS
FOR SUPERSTRUCTURES WITH
W27 BEAMS AND SMALLER
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	136
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 32
35 SHEETS

Contract No. 66731



BORING LOGS
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	137
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

Contract No. 66731

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG Page 1 of 2

Date 3/21/05

ROUTE FAL 80 DESCRIPTION P92-088-94 I-80 bridge over BMR, 1.2 m. W. of LeSalle County LOGGED BY W. Garza

SECTION 6-HVB-3 LOCATION Hill Twp. - HSE, 23ND, SEC., TWP. 39N, R9E, 11E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Dreditch Automatic

STRUCT. NO. 006-368.37 Surface Water Elev. _____ ft
Station 413+24.78 Stream Bed Elev. 609.70 ft

BORING NO. B-2a Groundwater Elev. _____ ft
Station 413+17 First Encounter _____ ft
Offset 45,000 Ft. Cl. Mod. Upon Completion _____ ft
Ground Surface Elev. 635.00 ft After H.s. _____ ft

DEPTH (ft)	SOIL DESCRIPTION	U	M	W	S	P	Other	U	M	W	S	P	Other
0	Through Bridge Deck (continued)												
58.50	Dry brown SANDY LOAM												
60.00	Dry brown SANDY LOAM												
608.50	MEDIUM brown LOAM with GRAVEL												
606.00	SOFT brown LOAM with GRAVEL												
603.50	MEDIUM brown SILTY CLAY LOAM												
601.00	No Recovery												
598.50	VERY STIFF gray CLAY												
596.00													

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 T208)

Illinois Department of Transportation
Division of Highways
District - Materials

SOIL BORING LOG Page 2 of 2

Date 3/21/05

ROUTE FAL 80 DESCRIPTION P92-088-94 I-80 bridge over BMR, 1.2 m. W. of LeSalle County LOGGED BY W. Garza

SECTION 6-HVB-3 LOCATION Hill Twp. - HSE, 23ND, SEC., TWP. 39N, R9E, 11E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Dreditch Automatic

STRUCT. NO. 006-368.37 Surface Water Elev. _____ ft
Station 413+24.78 Stream Bed Elev. 609.70 ft

BORING NO. B-2a Groundwater Elev. _____ ft
Station 413+17 First Encounter _____ ft
Offset 45,000 Ft. Cl. Mod. Upon Completion _____ ft
Ground Surface Elev. 635.00 ft After H.s. _____ ft

DEPTH (ft)	SOIL DESCRIPTION	U	M	W	S	P	Other	U	M	W	S	P	Other
7	STIFF gray SILTY CLAY												
8	VERY DENSE brown coarse SAND with GRAVEL												
11	STIFF gray SILTY CLAY TILL												
5	STIFF gray SILTY CLAY TILL with SAND lens												
9	VERY STIFF SILTY CLAY TILL with SAND lenses												
8	VERY STIFF SILTY CLAY TILL with SAND lenses												
19	DENSE brown medium SAND with GRAVEL and LIMESTONE fragments												
22	VERY DENSE brown coarse SAND with GRAVEL												
32	DENSE brown coarse SAND with GRAVEL												
25													
24													

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 T208)

BORING LOGS
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 35 35 SHEETS
F.A.I. 80	14VBR-2 & 14VBR-3	BUREAU	219	139	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 66731

Illinois Department of Transportation
Division of Highways
District - Macomb

SOIL BORING LOG

Page 1 of 2 Date 4/5/05

ROUTE F.A.I. 80 DESCRIPTION P92-089-94 I-80 bridge over DNRR, 1.2 m. W. of LaSalle County Line LOGGED BY W. Garza

SECTION 6-14VR-3 LOCATION Hill Top - MSE, 23MG, SEC., TWP. 36N, R9E, 11E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Dietrich Automatic

STRUCT. NO.	006-36837	Surface Water Elev.		ft	D	B	U	M	
Station	413+24.78	Stream Bed Elev.	609.70	ft	E	L	C	O	
BORING NO.	B-5a	Groundwater Elev.	605.6	ft	T	W	O	S	
Station	412+85	First Encounter		ft	H	S	Ou	S	
Offset	43.000' L L CL	Upon Completion	601.6	ft					
Ground Surface Elev.	634.10	After		ft	(ft)	(lb/ft)	(bls)	(ft)	

AF (continued)

Ground	643.0								
MEDIUM brown SILTY CLAY LOAM	611.60	3							
	609.80	4	0.8	17.0					
	608.80	4							
STIFF brown CLAY LOAM	607.60	1							
	607.60	2	12	23.0					
	607.60	3							
MEDIUM gray SILTY CLAY LOAM	605.10	1							
	605.10	1	0.5	28.0					
	605.10	3							
STIFF gray SILTY CLAY TILL with SAND lens	602.60	2	12	18.0					
	602.60	3							
HARD gray SILTY CLAY TILL	600.10	5							
	600.10	6	4.1	18.0					
	600.10	10							
HARD gray/olive green SILTY CLAY TILL	597.60	3							
	597.60	7	4.5	20.0					
	597.60	7							
VERY STIFF gray SILTY CLAY TILL	595.10	5							
	595.10	6	3.7	22.0					
	595.10	10							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Blow, (S)-Shear, (P)-Penetrometer
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)

Illinois Department of Transportation
Division of Highways
District - Macomb

SOIL BORING LOG

Page 2 of 2 Date 4/5/05

ROUTE F.A.I. 80 DESCRIPTION P92-089-94 I-80 bridge over DNRR, 1.2 m. W. of LaSalle County Line LOGGED BY W. Garza

SECTION 6-14VR-3 LOCATION Hill Top - MSE, 23MG, SEC., TWP. 36N, R9E, 11E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Dietrich Automatic

STRUCT. NO.	006-36837	Surface Water Elev.		ft	D	B	U	M	
Station	413+24.78	Stream Bed Elev.	609.70	ft	E	L	C	O	
BORING NO.	B-5a	Groundwater Elev.	605.6	ft	T	W	O	S	
Station	412+85	First Encounter		ft	H	S	Ou	S	
Offset	43.000' L L CL	Upon Completion	601.6	ft					
Ground Surface Elev.	634.10	After		ft	(ft)	(lb/ft)	(bls)	(ft)	

VERY STIFF gray SILTY CLAY TILL

	592.60	2							
	592.60	3	2.1	22.0					
	592.60	4							
STIFF gray SILTY CLAY TILL	590.10	2							
	590.10	5	1.7	23.0					
	590.10	7							
STIFF gray SILTY CLAY TILL	587.60	2							
	587.60	3	1.9	21.0					
	587.60	4							
VERY STIFF gray SILTY CLAY TILL	585.10	3							
	585.10	5	2.7	24.0					
	585.10	9							
VERY STIFF gray SILTY CLAY TILL	582.60	4							
	582.60	5	2.5	19.0					
	582.60	10							
DENSE tan dry medium SAND	580.10	4							
	580.10	19							
	580.10	17							
MEDIUM/DENSE tan dry fine SAND	577.60	5							
	577.60	10							
	577.60	20							
VERY DENSE tan dry clean medium coarse SAND	575.10	15							
	575.10	25							
	575.10	31							

VERY DENSE tan moist clean medium coarse SAND with GRAVEL

DENSE tan clean medium wet coarse SAND with GRAVEL

End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B)-Blow, (S)-Shear, (P)-Penetrometer
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208)

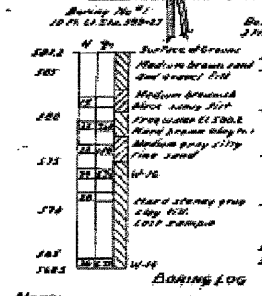
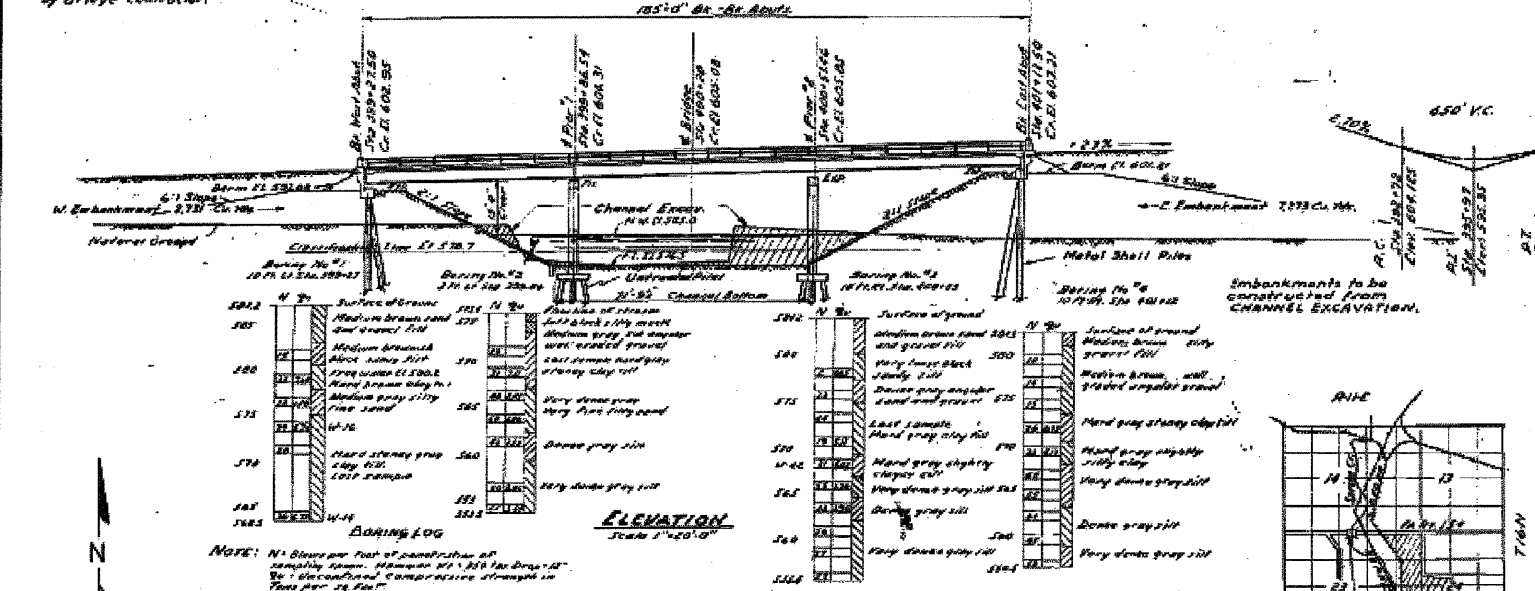
BORING LOGS
F.A.I. RTE. 80 - SEC. 14VBR-2 & 14VBR-3
BUREAU COUNTY
STATION 413+39.84
STRUCTURE NO. 006-0167 (E.B.)
STRUCTURE NO. 006-0168 (W.B.)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	140
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

B.M. Sp. 124 36" Burr Oak 45' Lt.
Sta. 225+75.61 384.7
Existing Structures: 3 Iron Timber
18' Hwy. on Stone Abut. and
Timber Pile Piers. To be removed
by Bridge Contractor.

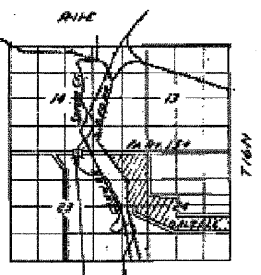


ELEVATION
Scale 1"=20'-0"

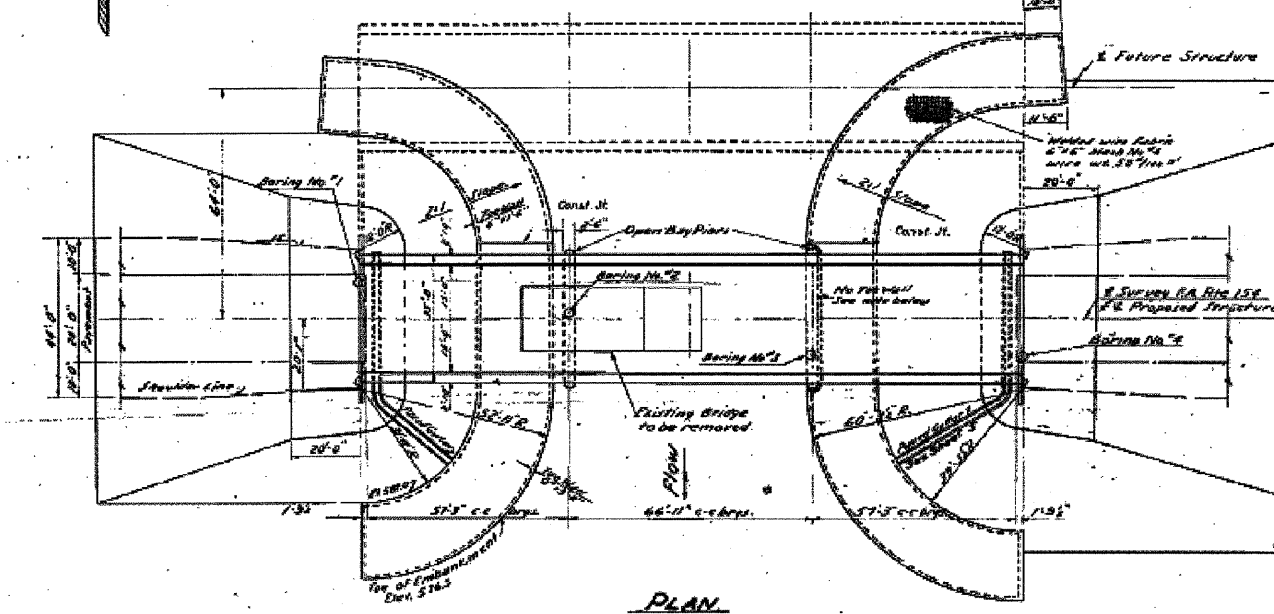
NOTE: No. 1 shows per foot of penetration of sampling tool. Maximum of 150 lbs. Drop at 10' intervals. Compressive strength in Test per 28 Days.

GENERAL NOTES

Class A Concrete shall be used throughout except in end piers.
Handrail Concrete shall be used in Handrail End Piers.
The Concrete Floor Slab shall be finished in accordance with Article 511(b) of the Standard Specifications and shall be poured in one continuous operation between joints. The curbs and side walks or longitudinal construction joints shown on cross section, shall be poured immediately after curb has been poured.
All connections shall be riveted unless noted.
Rivet holes in web splices shall be suspended 1/4" and reamed to 1/2".
Rivet holes in flange splices shall be reamed 1/4" and reamed to 1/2".
All Bolts, Bearing Plates, Lead Plates, Pinches and Anchor Bolts shall be fabricated and set in accordance with Article 51, 18 of the standard specifications and are included for payment as Structural Steel.
All stringers of a continuous unit shall be assembled in the shop in their proper alignment and girders, with or without diaphragms in place. Splices shall be web punched, bolted firmly together and reamed and match marked. Leave assembled for shop inspection.
All Structural Steel and Metal Handrail shall be inspected by the Illinois Division of Highways before painting.



LOCATION SKETCH



PLAN

STATION 400+20.11
BUILT 1928 BK
STATE OF ILLINOIS
F.A. RT. 156 Sec. 14-B
PROJECT V.F. 574(B)
LOADING H-20-S16

NAME & DATA
See Std. 211.3

WATERWAY INFORMATION

Drainage Area ----- 22,400 Acres
Character ----- Rolling, Clay, Wooded, Cultivated
Required Opening (20yrs Flood): 700 Sq. Ft.
Present Opening ----- 398 Sq. Ft.
Proposed Opening ----- 700 Sq. Ft.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANT.	UNIT PRICE	TOTAL
Class A Concrete	Cu. Yds.	176.0	246.8	43436.8
Handrail Concrete	Cu. Yds.	0.5		0.5
Reinforcement Bars	Lbs.	30,110	228.0	6865080
Structural Steel	Lbs.	194730		194730
Metal Handrail	Lbs. Ft.	367		367
Main Plate	Sq. Ft.	1		1
Channel Excavation	Cu. Yds.		16000	
Metal Pile Shows	Sq. Ft.	65	62	4030
Class B Excavation for structure	Cu. Yds.	180		180
Metal Shell Piles	Lin. Ft.	537	537	287369
Test Piles (Metal Shell)	Lbs.	1		1
Untreated Piles	Lin. Ft.	1040		1040
Test Piles (Timber)	Sq. Ft.	1		1
Removal of Existing Structure	Sq. Yds.		1025	1025

GENERAL PLAN ELEVATION
BRIDGE OVER SPRING CREEK
F.A. PROJ. F-574(B)
F.A. RT. 156 SEC. 14-B
BUREAU COUNTY
STA. 400+20(11)

H 20-S16-44 LOADING

DESIGN STRESSES
fc = 1800 psi
fs = 800 psi
fs = 18,000 psi
fs = 20,000 psi

DESIGNED: Lami Olson
CHECKED: Harry Chapp
DRAWN: [Signature]
EMERGED: Harry Chapp

NOTE: 1.6% R.F. shall be used between face of East Stiff Wall and East Face of Pier #2

APRIL 26, 1955
EXAMINED: W.M. Roman
VISED: [Signature]
APPROVED: [Signature]

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE
PLANS
SN 006-0032 (EBL)
SCALE: VERT. / HORIZ.
DATE: / /
DRAWN BY: /
CHECKED BY: /

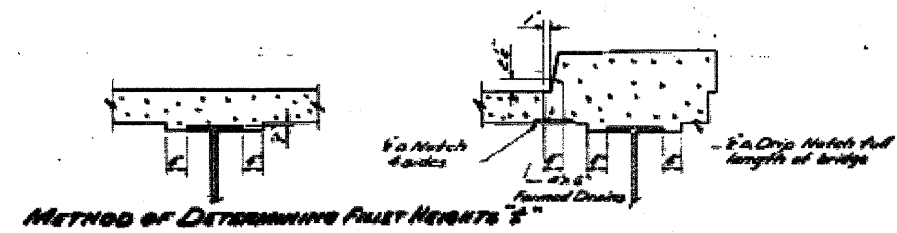
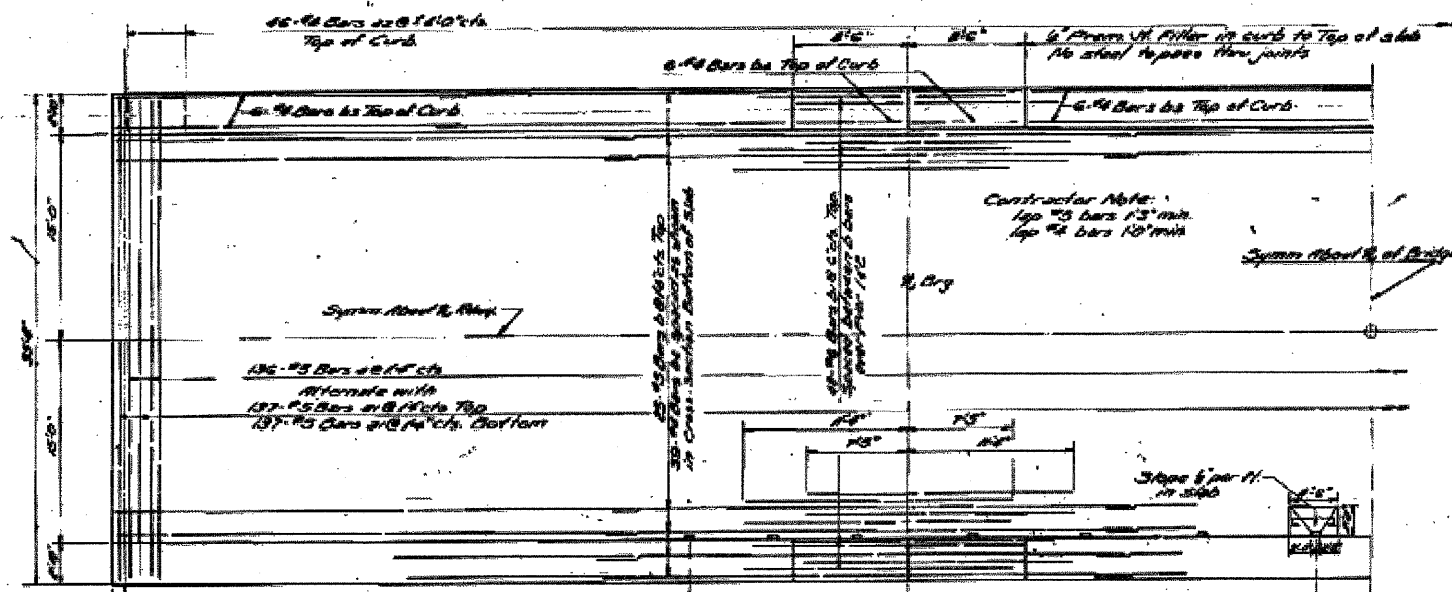
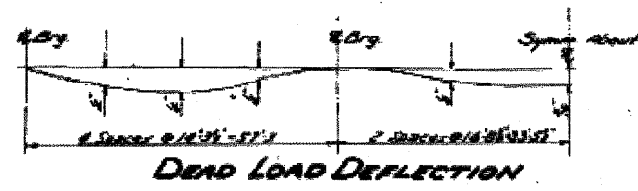
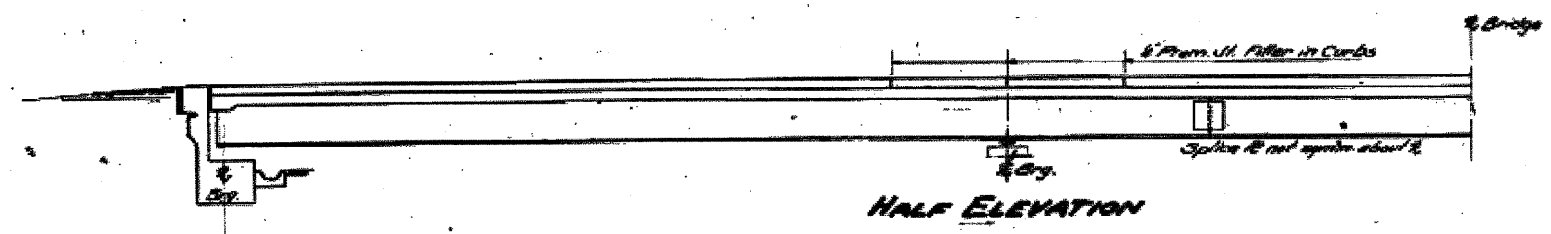
FOR INFORMATION ONLY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	141
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

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

DESIGNED BY	CHECKED BY	DATE	SHEET NO.	TOTAL SHEETS
			7	7



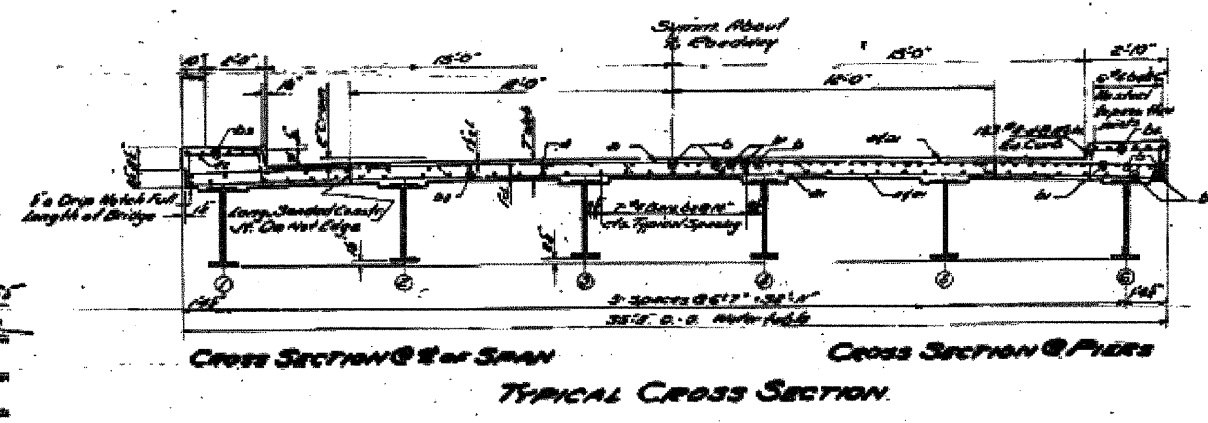
FILLET AND FLOOR DRAIN DETAILS



BILL OF MATERIAL

Bar No.	Size	Length	Shape
1	130	75	380°
2	174	75	350°
3	92	74	2-6"
4	175	75	270°
5	96	76	80°
6	213	74	260°
7	72	74	251°
8	48	74	85°
9	206	74	77°

Class of Concrete C-120 136.8
Reinforcement Bars 100 23,850
Structural Steel 100 139,700



SUPERSTRUCTURE
SPRING CREEK BRIDGE
PROJECT F-574(5)
F.A. RT. 154 SEC. 14-B
BUREAU COUNTY
STATION 400+20(1)

DESIGNED *Louis Oliver*
CHECKED *Henry Chapin*
DRAWN *E. Fish*
CHECKED *Henry Chapin*

DATE *April 26 1955*
DRAWN BY *V. M. Roscoe*
CHECKED BY *P. J. Shively*
APPROVED BY *A. B. ...*

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0032 (EBL)

SCALE: VERT. _____
HORIZ. _____
DATE _____
DRAWN BY _____
CHECKED BY _____

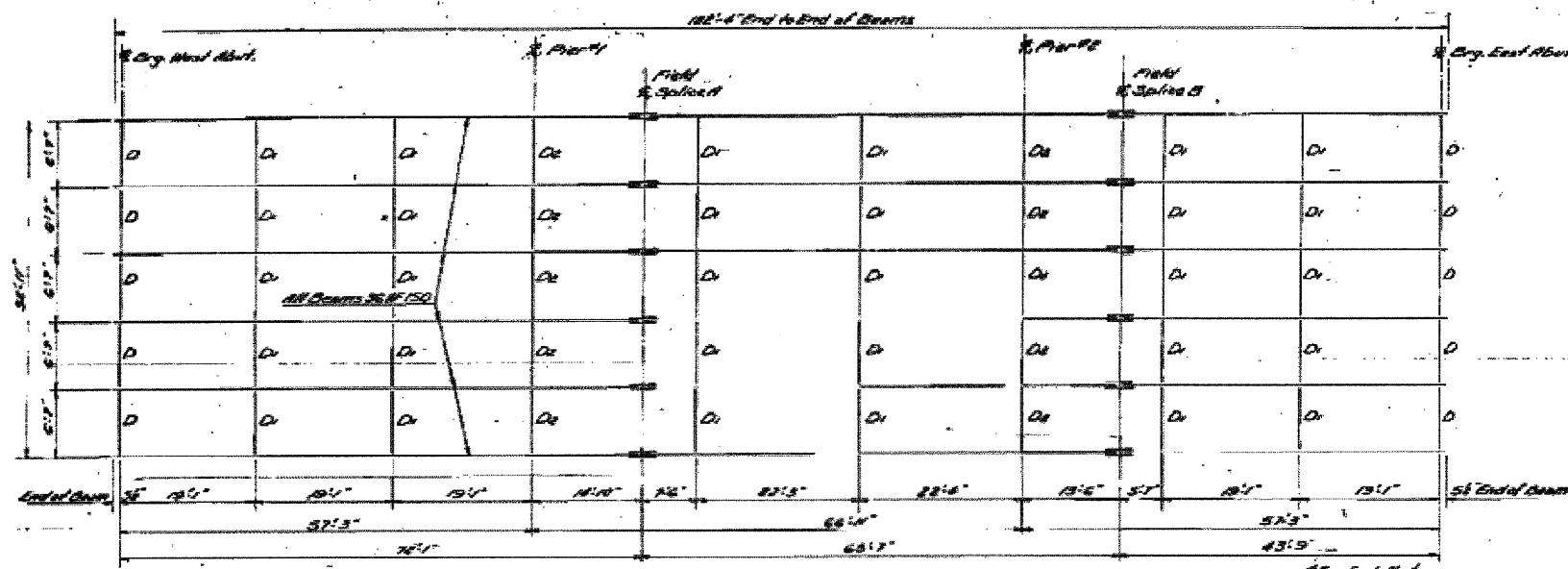
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

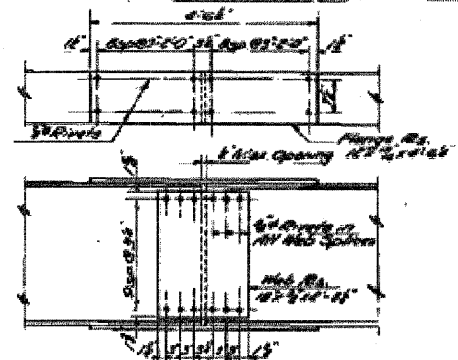
* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

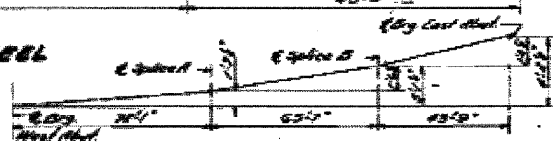
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SHEET NO. 3		7 SHEETS		



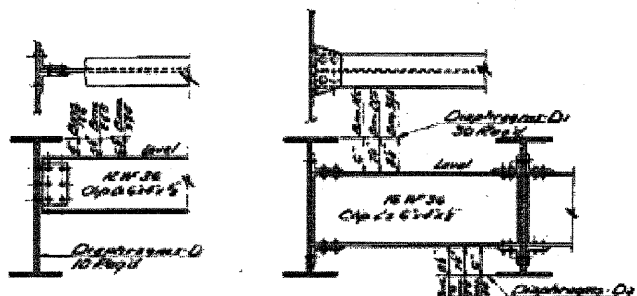
PLAN VIEW OF STRUCTURAL STEEL



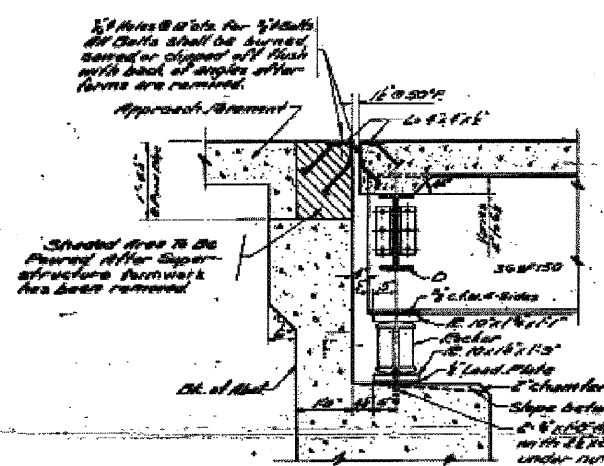
SPlice DETAILS
12 Splice



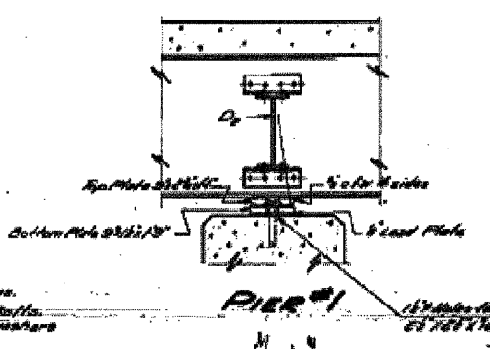
FABRICATION DIAGRAM



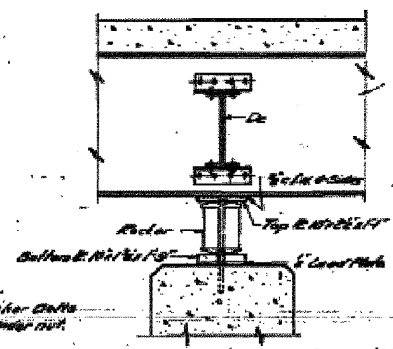
DETAIL OF DIAPHRAGMS-D, D1, D2



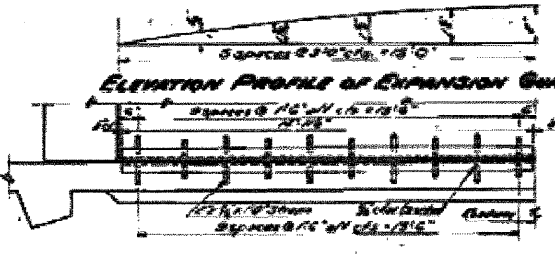
SECTION AT ABUTMENTS



PIER #1

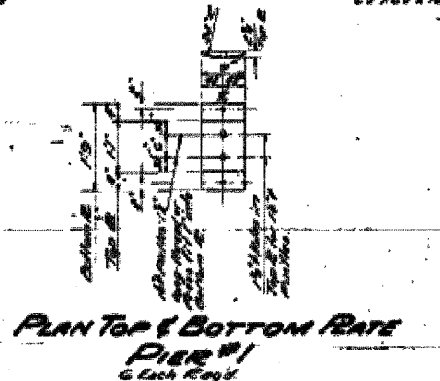


PIER #2



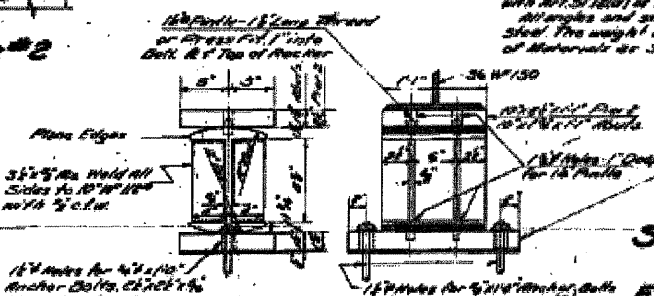
PLAN OF EXPANSION GUARDS

STRIP DETAIL



PLAN TOP & BOTTOM RATE
PIER #1
6 Each Pier

PINTLE
12 Each



ROCKER DETAILS
12 Each Pier
6 Each Pier

STRUCTURAL STEEL
SPRING CREEK BRIDGE
PROJECT F-574(6)
F.A.P. 154 SEC. 14-B
BURRUS COUNTY
STA. 400+20(1)

DESIGNED	Henry Chapin	DATE	April 26 1955
CHECKED	Henry Chapin	BY	V.M. Remond
APPROVED	Henry Chapin	BY	G. J. ...
		BY	H.B. ...

FOR INFORMATION ONLY

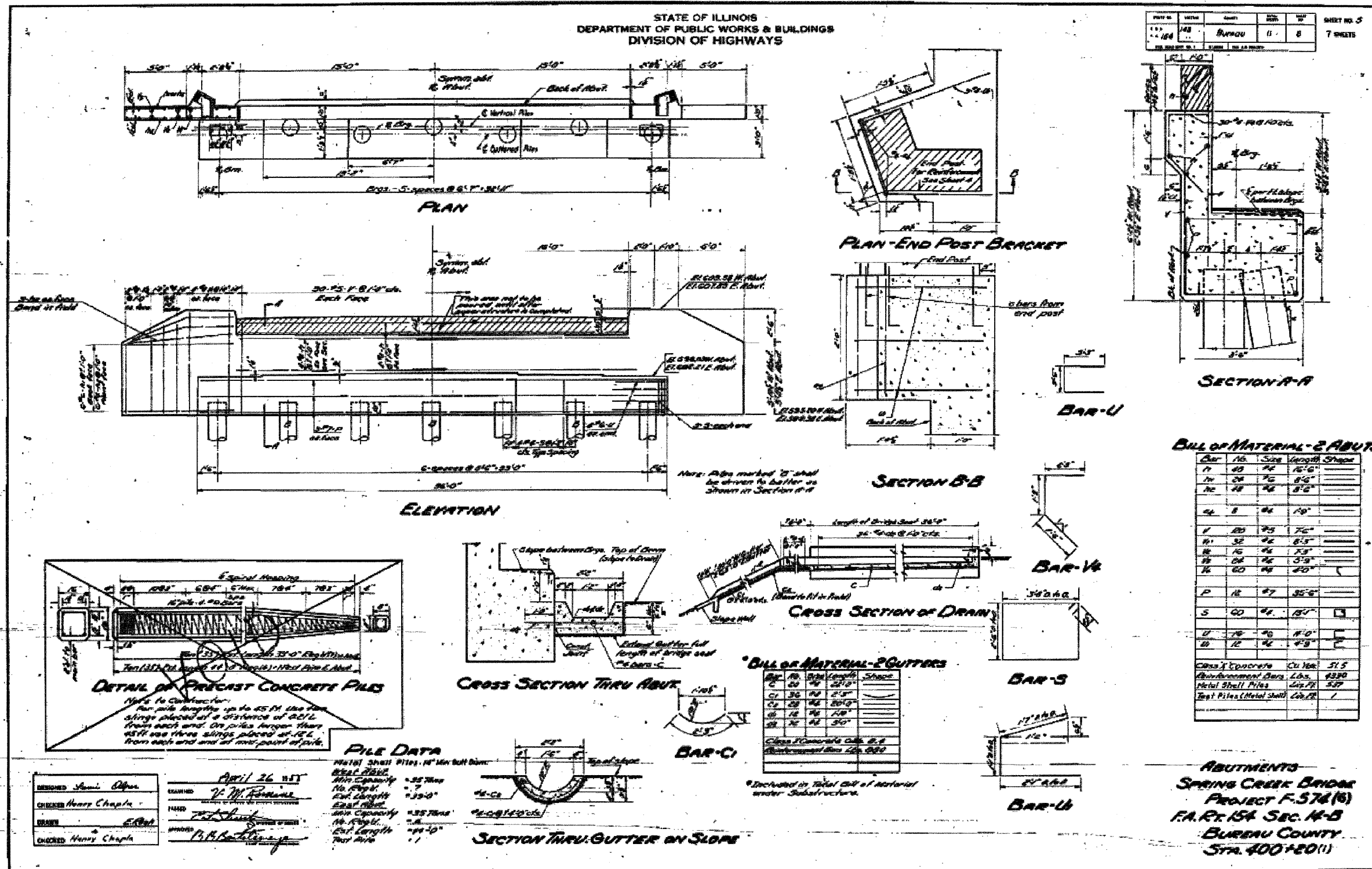
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE
PLANS
SN 006-0032 (EBL)
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	143
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING BRIDGE
PLANS**
SN 006-0032 (EBL)

SCALE: VERT. _____
 HORIZ. _____
DATE: _____

DRAWN BY _____
CHECKED BY _____

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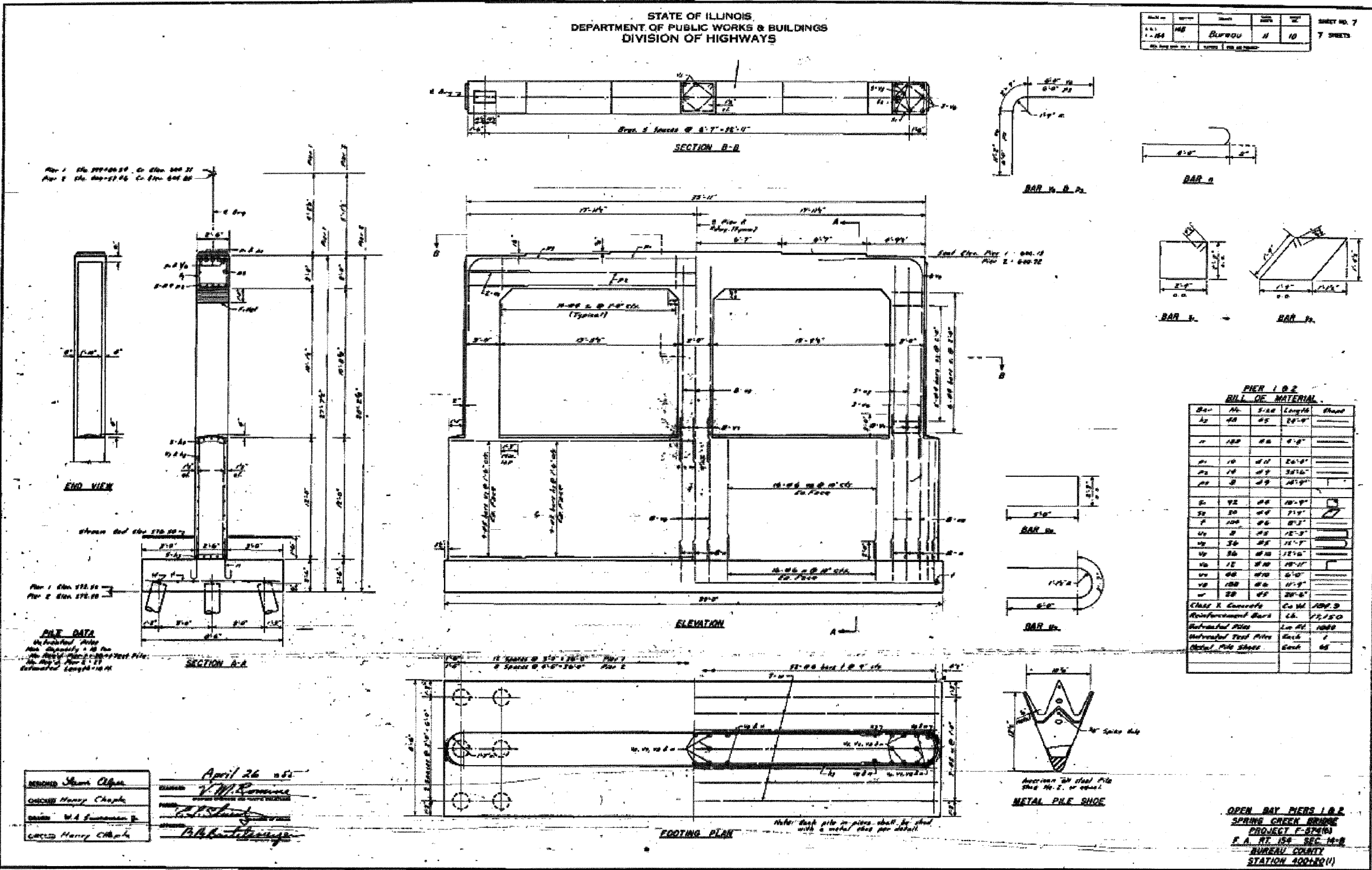
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	144
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

DATE	BY	REVISION	NO.
1-15-54	MB	REVISION	11
			10

SHEET NO. 7
7 SHEETS



Rev 1 Sta. 170.00 Co. Elev. 400.00
Rev 2 Sta. 170.00 Co. Elev. 400.00

Rev 1 Sta. 170.00
Rev 2 Sta. 170.00

PILE DATA
No. of Piles 2
Pile Diameter 18" Dia.
Pile Length 30'-0" (Estimated)
Estimated Length 10'-0"

APPROVED: *Shankh Chugh*
DESIGNED: *Henry Chugh*
CHECKED: *W.A. Bannerman Jr.*
DATE: *April 26 1954*

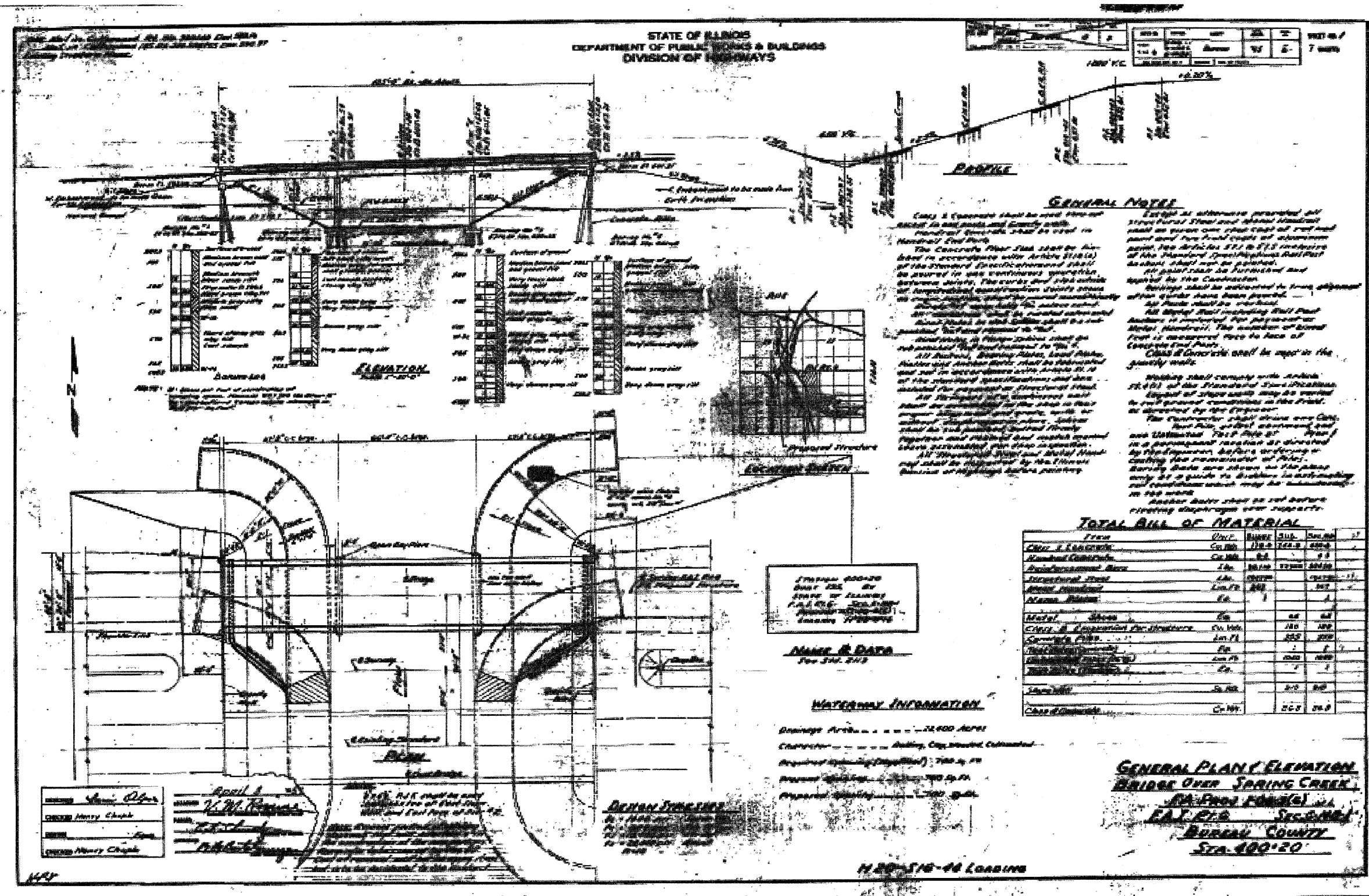
FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0032 (EBL)
SCALE: VERT. _____
DATE: _____ HORIZ. _____
DRAWN BY: _____
CHECKED BY: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	145
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



GENERAL NOTES

1. Concrete shall be used throughout in accordance with Article 114(B) of the Standard Specifications and shall be placed in one continuous operation between joints. The curb and sidewalk of longitudinal expansion joints shall be cast in place with the main structure. Expansion joints shall be constructed in accordance with Article 114(C) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

2. All steel reinforcement shall be installed in accordance with Article 114(D) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

3. All steel reinforcement shall be installed in accordance with Article 114(E) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

4. All steel reinforcement shall be installed in accordance with Article 114(F) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

5. All steel reinforcement shall be installed in accordance with Article 114(G) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

6. All steel reinforcement shall be installed in accordance with Article 114(H) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

7. All steel reinforcement shall be installed in accordance with Article 114(I) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

8. All steel reinforcement shall be installed in accordance with Article 114(J) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

9. All steel reinforcement shall be installed in accordance with Article 114(K) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

10. All steel reinforcement shall be installed in accordance with Article 114(L) of the Standard Specifications and shall be installed in the center of the span. Expansion joints shall be installed in the center of the span. Expansion joints shall be installed in the center of the span.

TOTAL BILL OF MATERIAL

Item	Qty.	Unit	Value	Value	Value
Concrete	1200	cu. yd.	1200	1200	1200
Reinforcing Steel	100	lbs.	100	100	100
Structural Steel	50	lbs.	50	50	50
Expansion Joints	1	unit	1	1	1
Masonry	50	cu. yd.	50	50	50
Gravel	100	cu. yd.	100	100	100
Asphalt	100	sq. yd.	100	100	100
Paint	100	gal.	100	100	100
Other	100	sq. ft.	100	100	100

DESIGNED BY
 DRAWN BY
 CHECKED BY
 DATE

NAME & DATA
 For Job 2113

WATERWAY INFORMATION

Drainage Area: 22,000 Acres
 Character: Arroyo, Clay Shaded, Cultivated
 Required Clearing (Depth): 700 ft.
 Proposed Clearing: 700 ft.
 Proposed Spacing: 700 ft.

GENERAL PLAN ELEVATION
BRIDGE OVER SPRING CREEK
 (A-1) (A-2) (A-3) (A-4)
 (A-5) (A-6) (A-7) (A-8)
 (A-9) (A-10) (A-11) (A-12)
BUREAU COUNTY
 STA. 400+20

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
 SN 006-0033 (WBL)

SCALE: VERT. _____
 HORIZ. _____

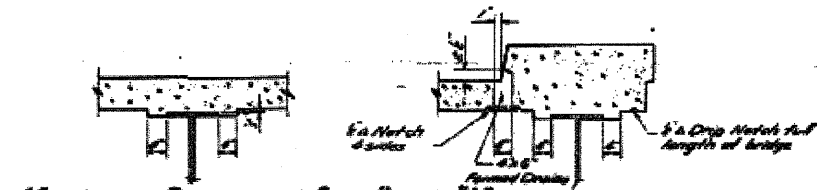
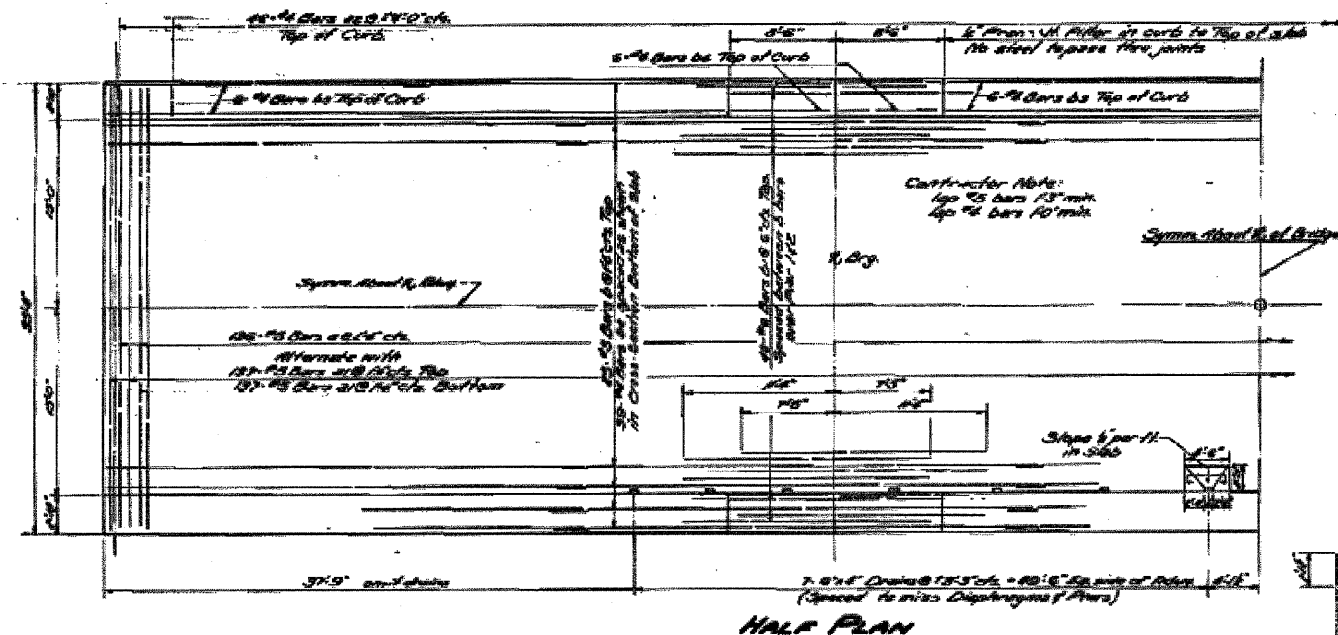
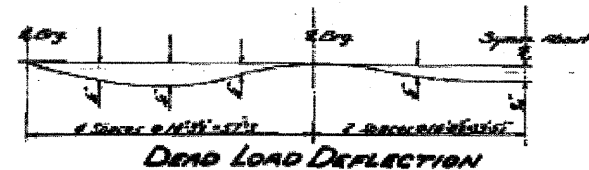
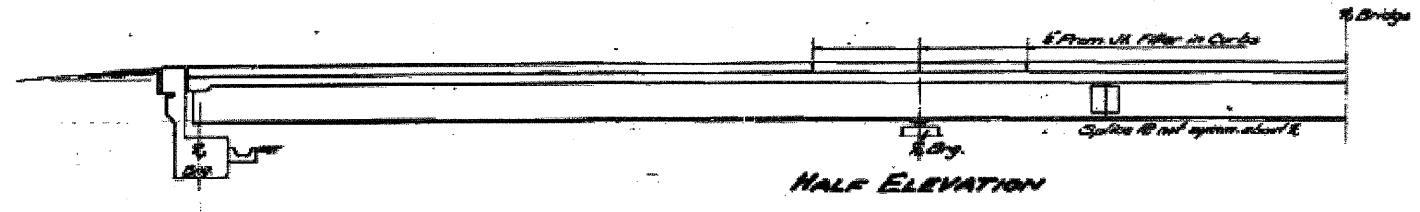
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	146
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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



After all Structural Steel has been erected elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 ft. From these elevations subtract the movement of deflection for these points, determined from the D.L. deflection diagram. The elevations so obtained subtracted from the theoretical grade elevations minus floor slab rise equal the filler heights above top of beam.

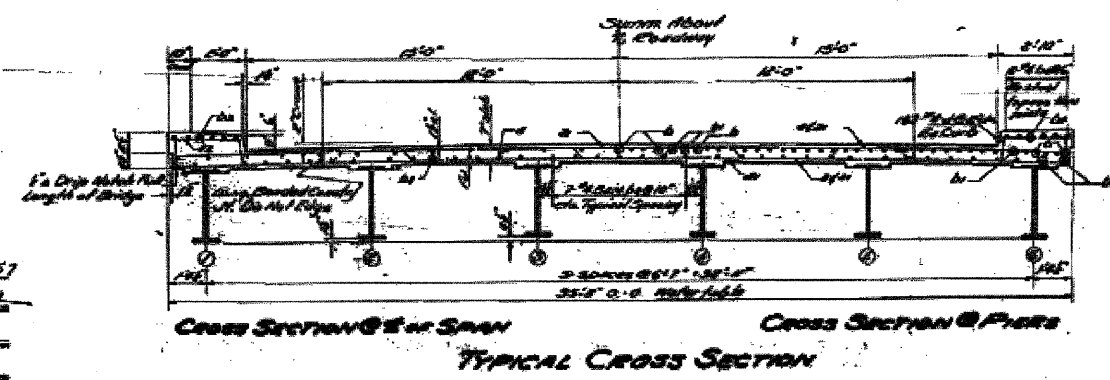
FILLET AND FLOOR DRAIN DETAILS



BILL OF MATERIAL

Bar No.	Length	Weight	Quantity	Total Weight
1	138'	75	300	22500
2	124'	75	300	22500
3	92'	75	300	22500
4	73'	75	300	22500
5	56'	75	300	22500
6	38'	75	300	22500
7	28'	75	300	22500
8	18'	75	300	22500
9	11'	75	300	22500
Grand Total				225000

Class / Concrete Co. No. 1-14-8
Reinforcement Bars 16x22x20
Structural Steel 16x22x20



DESIGNED: Louis Olsen	DATE: APRIL 2 1957
CHECKED: Henry Chapin	BY: V.M. Rindland
DRAWN: R. R. Smith	BY: J. J. Schaefer
CHECKED: Henry Chapin	BY: B.A. [Signature]

SUPERSTRUCTURE
SPRING CREEK BRIDGE
F.A.P.R.G. SEC. 6-NB1
BUREAU COUNTY
STATION 400+20

FOR INFORMATION ONLY

REVISIONS

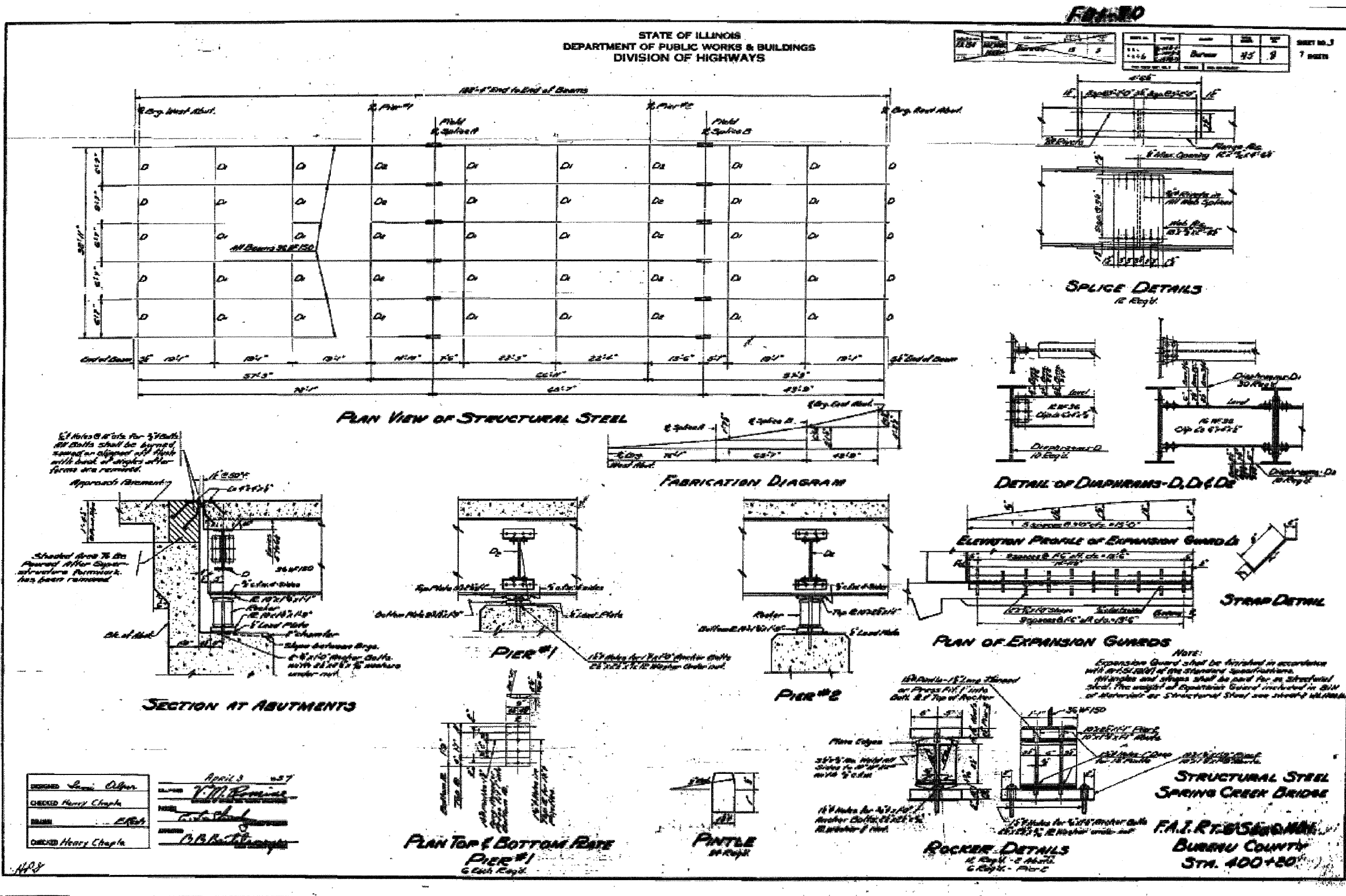
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0033 (WBL)
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	147
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING BRIDGE
PLANS
SN 006-0033 (WBL)**

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

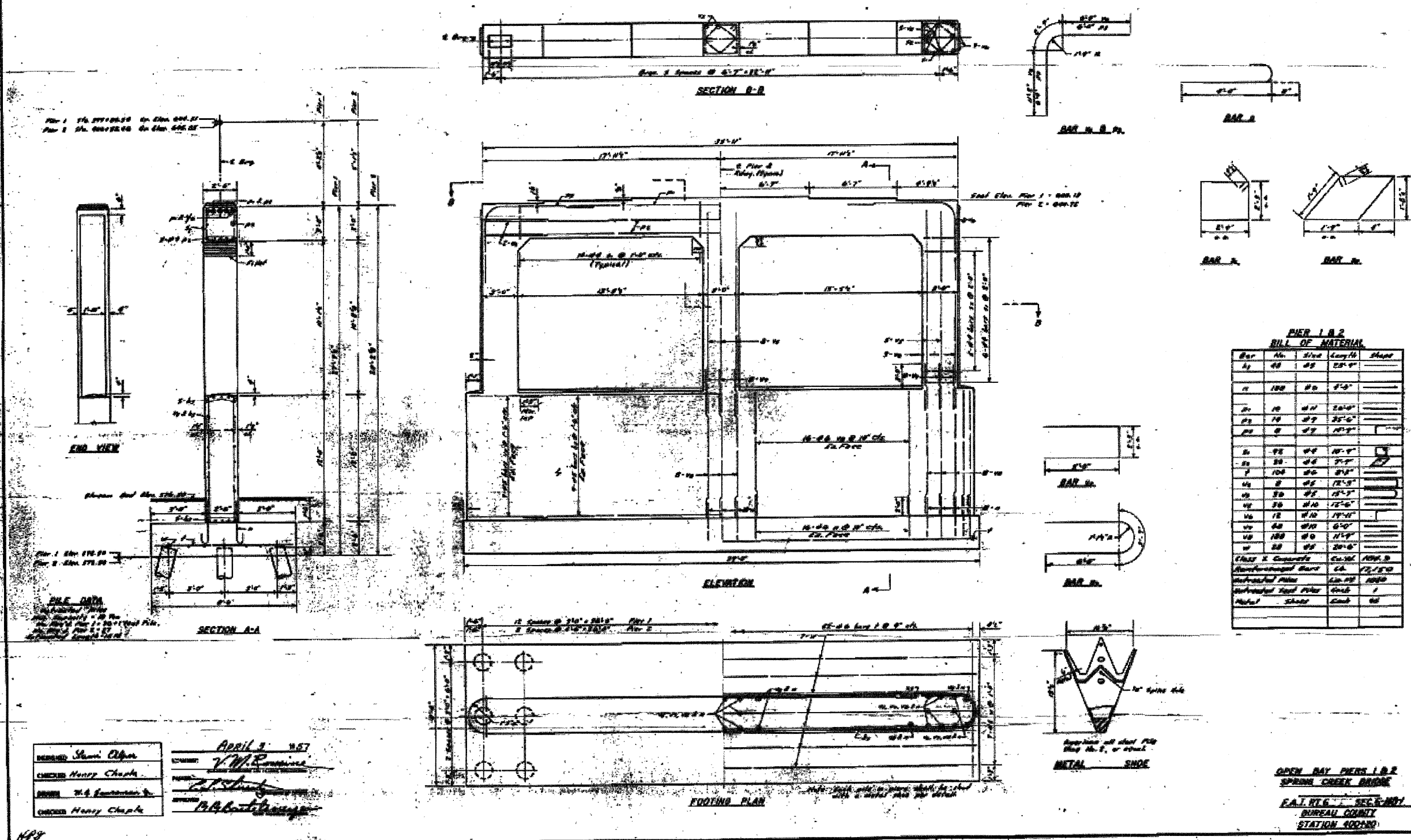
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	148
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

DATE	BY	CHKD	APP'D	SHEET NO. 7
4.23.57	W. J. ...	Bureau	35	12.
				7 SHEETS



DESIGNED: Sam Allen
CHECKED: Henry Clark
DATE: APRIL 3 1957
BY: V.M. R...
CHECKED: H.C. ...

OPEN BAY PIERS 1 & 2
SPRING CREEK BRIDGE
F.A.P. 80 - SECTION
BUREAU COUNTY
STATION 40280

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0033 (WBL)
SCALE: VERT. _____
DATE: _____ HORIZ. _____
DRAWN BY: _____
CHECKED BY: _____

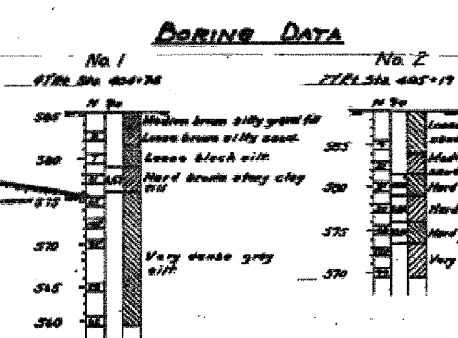
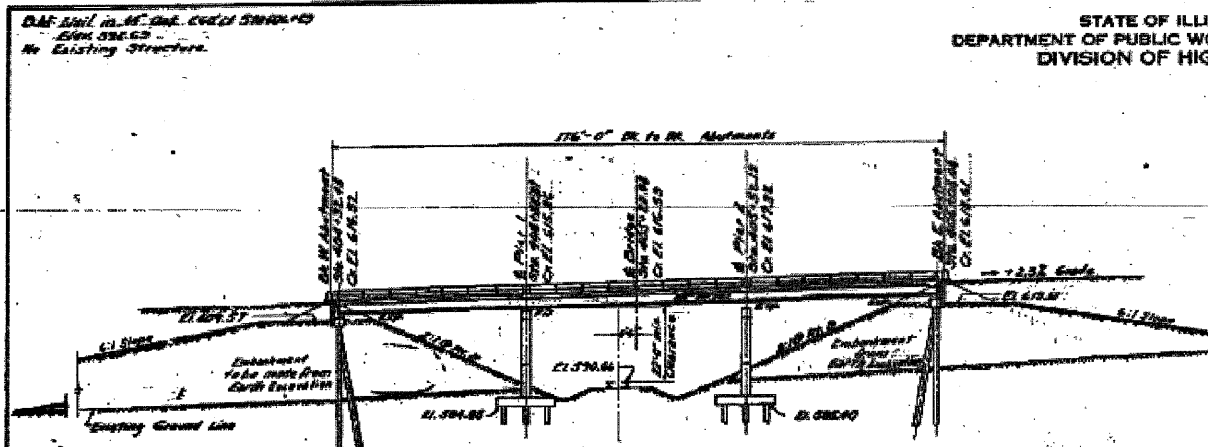
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USER NAME = wenzelko

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	149
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B, B-1, VB, V-1, VB-2, V-3)BR

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

DATE	BY	CHKD.	APP'D.	SHEET NO.
1957	J. M. [Signature]	[Signature]	[Signature]	8
1957	[Signature]	[Signature]	[Signature]	13



GENERAL NOTES

NOTE: Class X Concrete shall be used throughout except in End Posts and Gravity walls.

Handrail Concrete shall be used in End Posts.

The Concrete Floor Slab shall be poured in continuous sections between joints and shall be finished in accordance with Art. 514 of the Standard Specifications.

All Rebar, Bending Plates, Lead Plates and Anchor Bolts shall be fabricated and set in accordance with Art. 514 of the Standard Specifications and are included for payment as Structural Steel.

Before Superstructure is placed construct embankment in accordance with Art. 6 of the Standard Specifications. Anchor Bolts shall be set before resting subgrade over support.

Except as otherwise provided, all Structural Steel shall receive one coat of Red Lead paint and two full coats of Aluminol paint. See Art. 511 to 515 of the Standard Specifications.

All joints shall be furnished and applied by the Contractor.

All Metal Handrail including Rail Post Anchors are included for payment in Item 200 of the Standard Specifications. Bridge shall be set prior to true alignment survey curve have been passed. All Rail Posts shall be vertical.

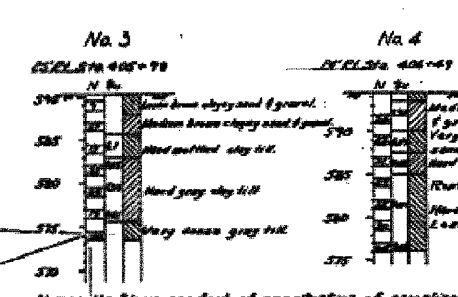
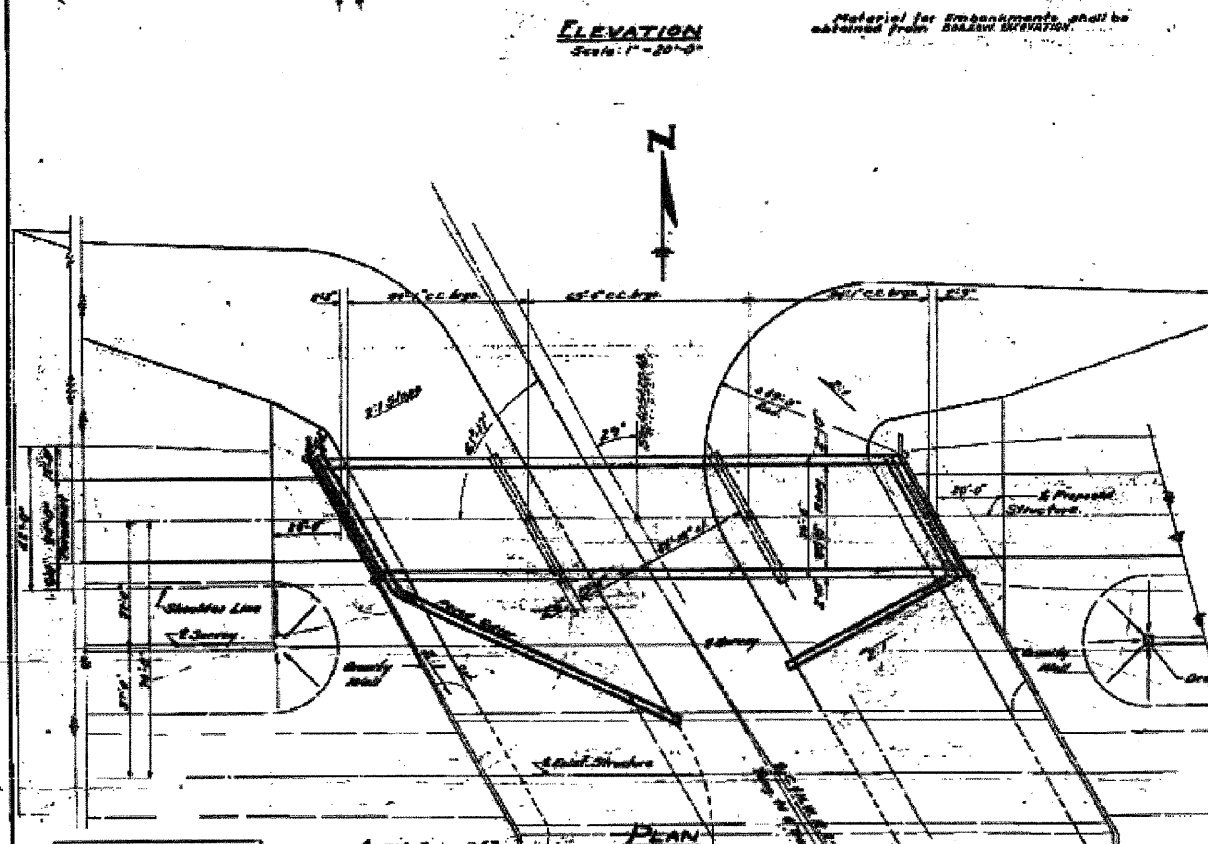
The Contract Unit Prices per linear foot of Metal Handrail include the furnishing, installing and painting of the handrail. The number of linear feet is measured from the face of concrete grade.

The Contractor shall drive two concrete test piles in the proposed location directed by the Engineer and one timber test pile before ordering remainder of piles.

Boring Data are shown on the plan only as a guide to locate & ascertain soil conditions which may be encountered in the work.

The concrete test piles are to be driven one in each abutment. The timber test pile is to be driven in the vicinity of Pier 2.

Class A Concrete shall be used in the gravity wall.



Note: N = Blows per foot of penetration of sampling spoon. Number Height = 300 lbs. Drop = 12 inches.
Q = Unconfined compressive strength in tons per square foot.

C. & N. V. R. R.
BUILT BY
STATE OF ILLINOIS
F.A. PROJ. 2-06-3(6)
SEC. C-14-VB-2
LOADING H20-S16

LETTERING FOR NAME PL.
See Standard 2115

TOTAL BILL OF MATERIAL

ITEM	QUANTITY	SUPER	SUB.	AMOUNT
Class X Concrete	Cu Yds. 167.6	261.6		\$38.81
Handrail Concrete	Cu Yds. 85			6.5
Reinforcement Bars	Lbs. 27690	2340		1160
Structural Steel	Lbs. 17990			17990
Metal Handrail	Lin. Ft. 248.5			315
Main Plates	EA. 1			1
Concrete - Misc.	Lin. Ft. 1	325		336
Test Piles (Concrete)	EA. 2			2
Concrete Piles	Lin. Ft. 871			871
Test Piles (Timber)	EA. 1			1
Metal Shells	EA. 2			81
Class A Concrete for Spillway	Cu Yds. 270			270
Cast Iron Frames	EA. 2			2
Earth Excavation	Cu Yds. 3698			3698
Class A Concrete	Cu Yds. 22.5			22.5

DESIGN STRESSES

f_c = 4500 p.s.i. Super
f_c = 3000 p.s.i. Substr.
f_s = 20000 p.s.i. Structural
f_s = 20000 p.s.i. Reinf.
n = 8

GENERAL PLAN & ELEVATION

F.A. PROJ. 2-06-3(6)
C. & N. V. R. R. OVERHEAD
F.A. PROJ. 2-06-3(6)
SEC. C-14-VB-2
BUREAU COUNTY
STATION 405+20.48
EXHIBIT-1.

DESIGNED	Apr. 1957
CHECKED	J. M. [Signature]
DATE	April 2, 1957
BY	[Signature]
BY	[Signature]

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE
PLANS
SN 006-0035 (WBL)
SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

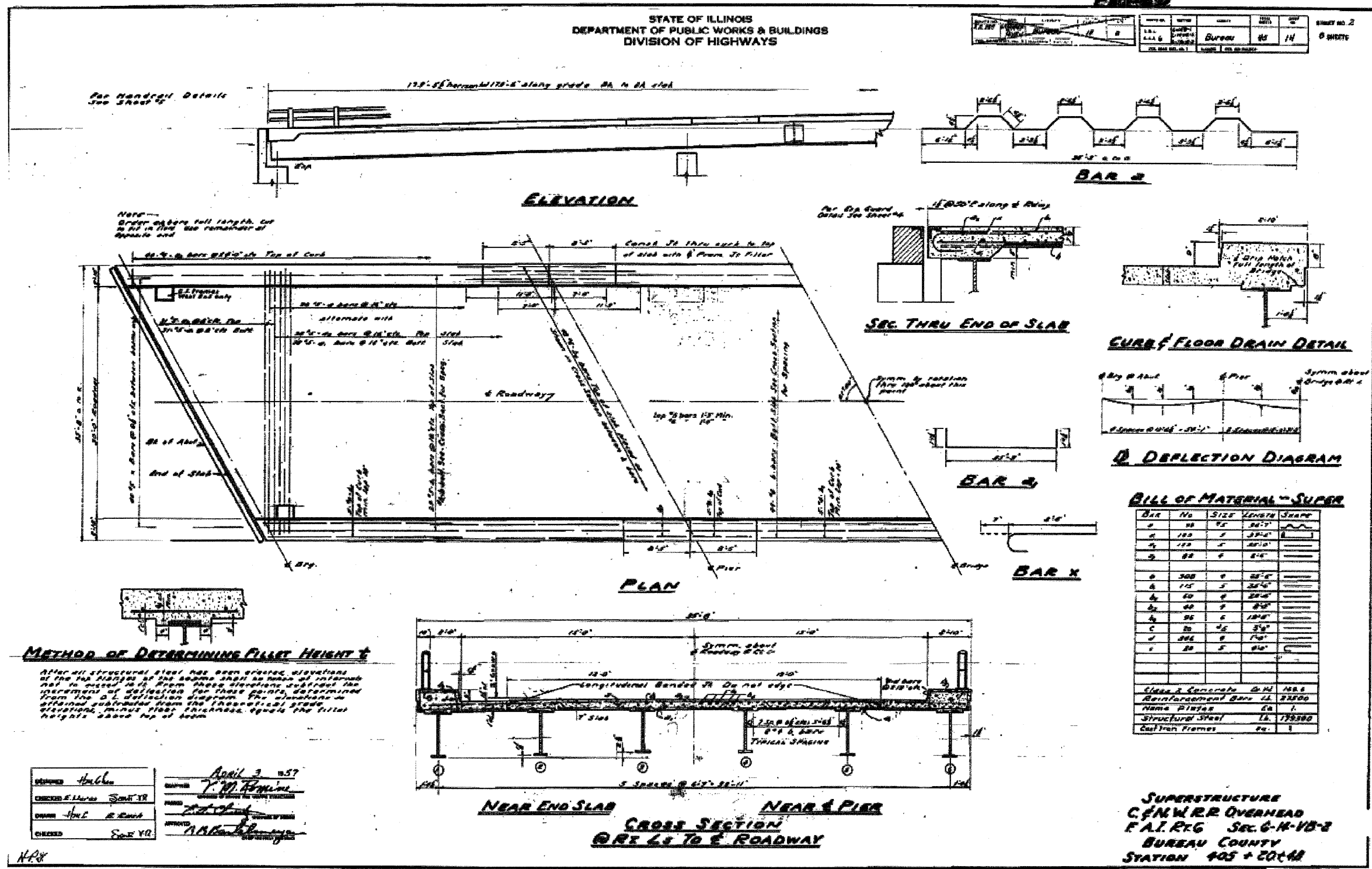
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	150
STA. _____ TO STA. _____			ILLINOIS FED. AID PROJECT	

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

DATE	BY	REVISION
NOV 19 1957	Bureau	NO 14



FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

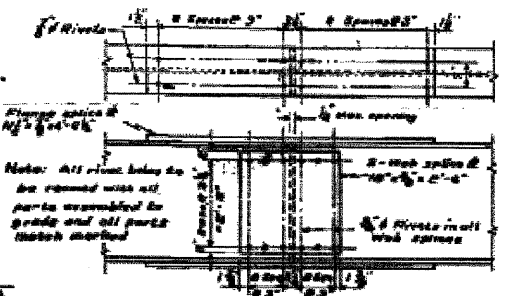
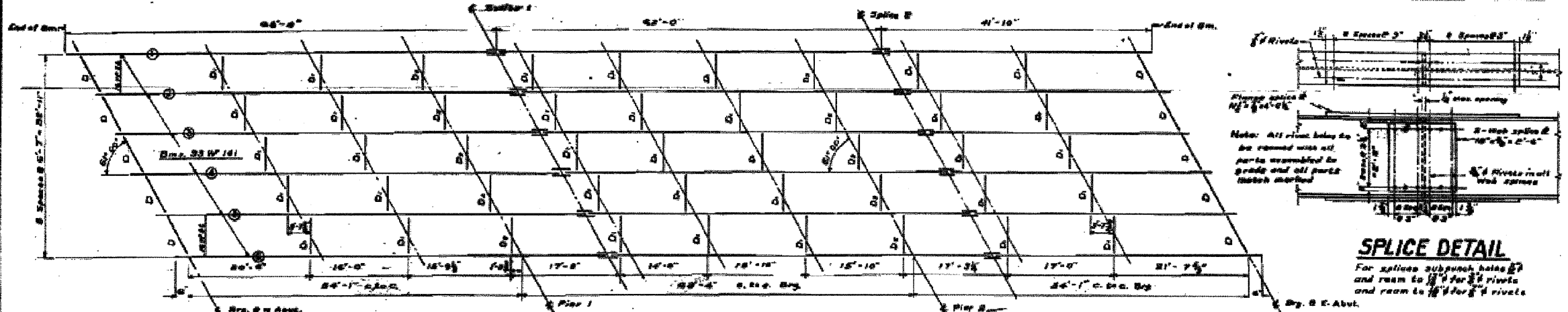
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0035 (WBL)
SCALE: VERT. _____
DATE: _____ HORIZ. _____
DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	151
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

DATE	BY	CHKD.	APP'D.
11/15/57	W. J.
SHEET NO. 3 OF SHEETS			

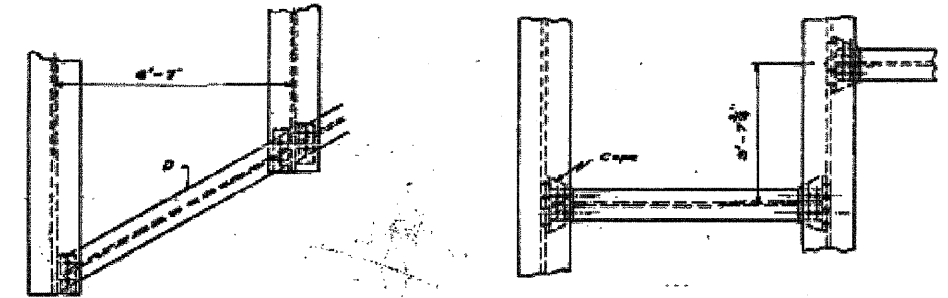


PLAN OF STRUCTURAL STEEL
Showing Horizontal Dimensions

Note
All Beams 33 WF 141
Diaph. D, D₁ 16 WF 36
Diaph. D₂ 16 WF 36

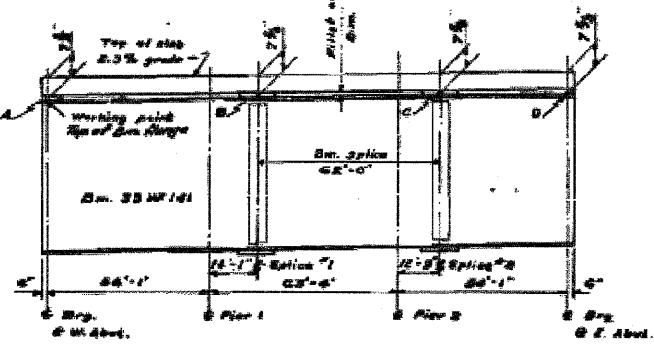
SHIM PLATES

Beam	Diaph. D	Diaph. D ₁	Diaph. D ₂
1	10'-0" x 1'-0"	3'-0" x 1'-0"	3'-0" x 1'-0"
2	10'-0" x 1'-0"	3'-0" x 1'-0"	3'-0" x 1'-0"
3	10'-0" x 1'-0"	3'-0" x 1'-0"	3'-0" x 1'-0"
4	10'-0" x 1'-0"	3'-0" x 1'-0"	3'-0" x 1'-0"
5	10'-0" x 1'-0"	3'-0" x 1'-0"	3'-0" x 1'-0"
6	10'-0" x 1'-0"	3'-0" x 1'-0"	3'-0" x 1'-0"



X DISTANCE & DIAP. D

Beam	X
1	3'
2	5'
3	7'
4	9'
5	11'
6	13'



WORKING POINT ELEVATIONS

Beam No.	A	B	C	D
1	618.584	615.994	616.294	617.634
2	618.784	616.294	616.794	617.734
3	618.984	616.594	616.894	617.834
4	619.184	616.894	617.094	617.934
5	619.384	617.194	617.294	618.034
6	619.584	617.494	617.594	618.134

DIAPHRAGM-D

DIAPHRAGMS-D₁-D₂

STRUCTURAL STEEL

C/P N.W.R. OVERHEAD
F.A.I. R. 6 SEC. 6-N-10-2
BUREAU COUNTY
STATION 405+20.48

DESIGNED: H. J. ...
CHECKED: E. J. ...
DRAWN: H. J. ...
DATE: April 3, 1957

FOR INFORMATION ONLY

REVISIONS	NAME	DATE

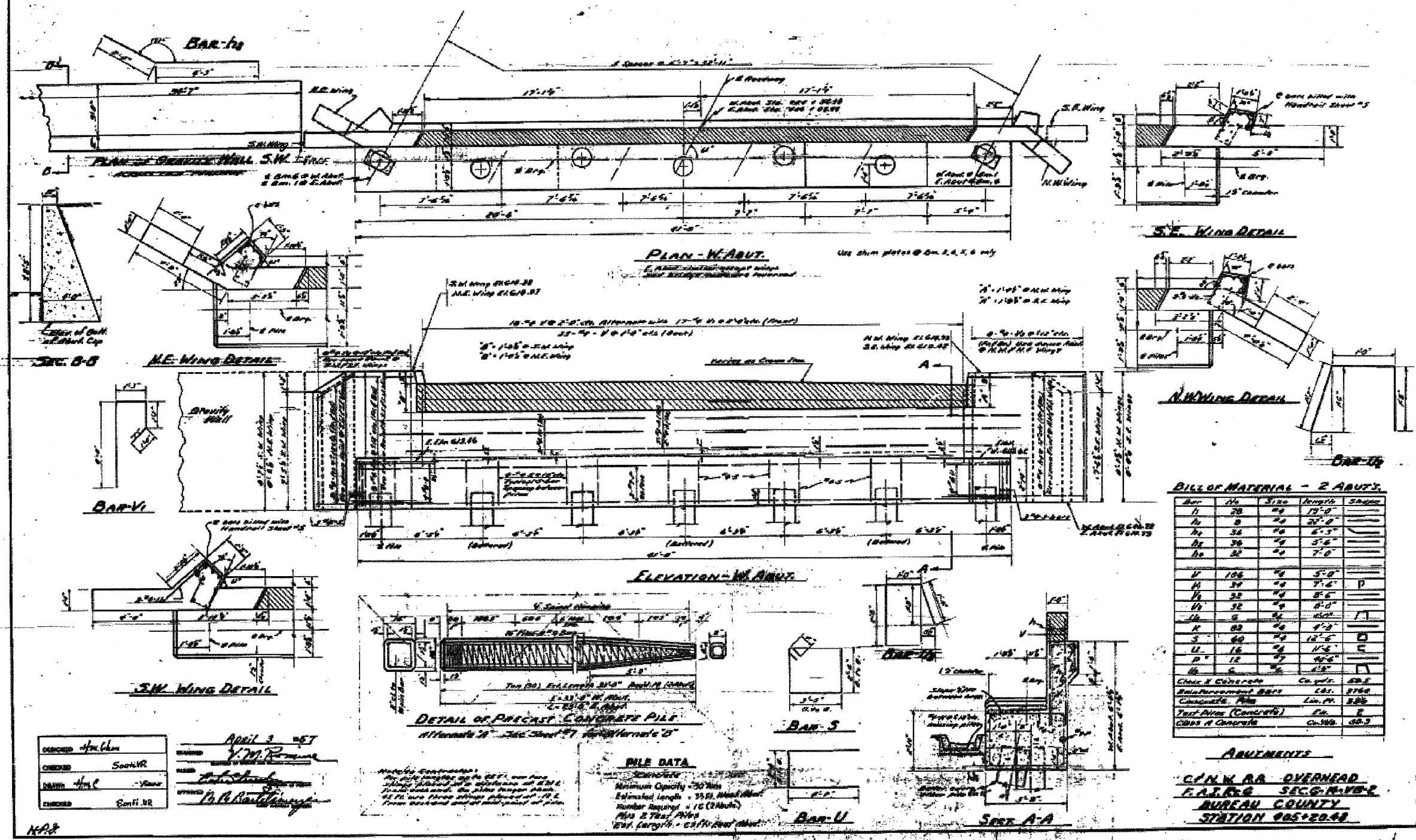
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0035 (WBL)
SCALE: VERT. _____
DATE: _____
DRAWN BY: _____
CHECKED BY: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	153
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

DESIGNED	CHECKED	DATE	SHEET NO.
APR 3 1957	APR 3 1957	1957	8



BILL OF MATERIAL - 2 ABUT.

Bar	No.	Size	Length	Shape
1	28	#4	19'-0"	
2	8	#4	20'-0"	
3	32	#4	6'-5"	
4	36	#4	5'-6"	
5	32	#4	7'-0"	
6	106	#4	5'-0"	
7	34	#4	7'-6"	P
8	32	#4	8'-6"	
9	32	#4	8'-0"	
10	6	#4	10'-0"	1
11	82	#4	4'-0"	
12	60	#4	12'-6"	2
13	16	#4	11'-6"	3
14	12	#4	10'-6"	
15	6	#4	4'-0"	1

CLASS I CONCRETE Cn. 100 60.0
 REINFORCEMENT BARS Cn. 100 3760
 CONCRETE PILE Cn. 100 800
 TOTAL PILES (CONCRETE) Cn. 2
 CLASS II CONCRETE Cn. 100 60.0

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

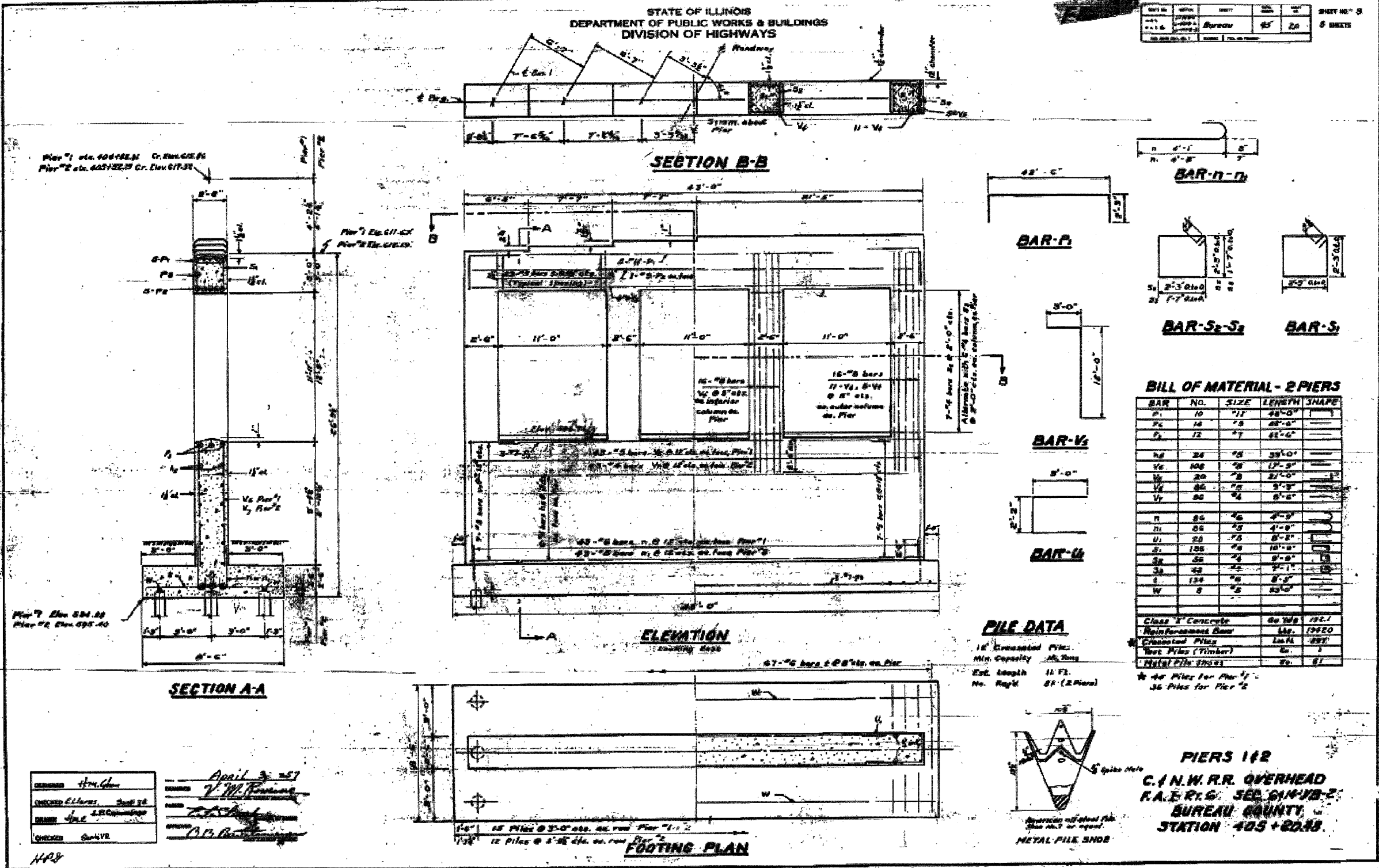
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE
PLANS
SN 006-0035 (WBL)

SCALE: VERT. DRAWN BY
DATE HORIZ. CHECKED BY

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	154
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT _____		

*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



DATE	BY	CHKD	APP'D	SHEET NO.
				5

BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
P1	10	#11	48'-0"	
P2	14	#8	48'-0"	
P3	12	#7	41'-0"	
V1	24	#5	39'-0"	
V2	108	#5	17'-0"	
V3	20	#8	21'-0"	
V4	80	#5	9'-0"	
V5	80	#4	8'-0"	
T1	80	#5	4'-0"	
T2	80	#5	4'-0"	
U1	20	#5	8'-0"	
S1	120	#5	10'-0"	
S2	60	#4	8'-0"	
S3	60	#4	8'-0"	
S4	120	#5	8'-0"	
W	8	#5	83'-0"	

PILE DATA

12' Cased Pile
 Min. Capacity 40 Tons
 Est. Length 11 Ft.
 No. Piles 24 (2 Piers)

Class 2 Concrete 60 Yds 192.1
 Reinforcement Bars 144 Lbs 19220
 Estimated Piles 24 Lbs 480
 Total Piles (Timber) 24 Lbs 480
 Metal Pile Shoes 8 Lbs 81

PIERS 1 & 2
 C. & N. W. R.R. OVERHEAD
 F.A.E. R.R.G. SEC. 614/VB-2
 BUREAU COUNTY, ILL.
 STATION 405+80.88

APPROVED: *[Signature]*
 DATE: April 3, 1957
 CHECKED: *[Signature]*
 DATE: *[Signature]*
 DRAWN: *[Signature]*
 DATE: *[Signature]*

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
 SN 006-0035 (WBL)
 SCALE: VERT. _____
 HORIZ. _____
 DATE _____
 DRAWN BY _____
 CHECKED BY _____

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	155
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT _____		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

ELEVATION OF PROPOSED STRUCTURE
Scale: Vert. 1" = 10' Hor. 1" = 20'

Boring Data

GENERAL PLAN
C.B. & N.W. CORNER
R.R. PROJECT 105-710
S.M. 4157-2483

GENERAL NOTES

Class A Concrete shall be used in heavy walls across piers and Class B Concrete shall be used through-out, except in foundations. Normal Concrete shall be used in end piers. The concrete floor slab shall be finished in accordance with Article 17.11(c) of the Standard Specifications.

Expansion Guards are included for payment as Structural Steel 1788 Lbs. Estimated Weight.

Except as otherwise provided, all structural steel shall receive one coat of red lead paint and two field coats of zinc primer.

All work shall be furnished and applied by the Contractor. All bar size shall be 40 diameter except as shown.

The Contractor shall drive one concrete test pile in accordance with the Department's Standard Specifications for test piles as directed by the Engineer before starting remainder of pile.

Boring data are shown on this drawing only as a guide to bidders in estimating and conditions which may be encountered in the work. A test pile shall be driven in the vicinity of each pier.

TOTAL BILL OF MATERIAL

Item	Quantity	Unit	Price	Total
Class A Concrete	112.0	Cu Yds	\$12.00	\$1,344.00
Class B Concrete	18.0	Cu Yds	\$12.00	\$216.00
Structural Steel	1788	Lbs	\$0.12	\$214.56
Expansion Guards	1	Each	178.80	\$178.80
Reinforcing Bars	350	Lbs	\$0.12	\$42.00
Cast Iron Piles	400	Each	0.12	\$48.00
Test Piles (Concrete)	2	Each	100.00	\$200.00
Class A Concrete	370	Cu Yds	\$12.00	\$4,440.00
Class B Concrete	850	Cu Yds	\$12.00	\$10,200.00
Reinforcing Bars	45	Lbs	\$0.12	\$5.40
Cast Iron Piles	2	Each	100.00	\$200.00
Cast Iron Piles	2	Each	100.00	\$200.00

LETTERS FOR NAME R
SEE 570-212

REVISIONS

NO.	DESCRIPTION	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0037 (WBL)

SCALE: VERT. _____
HORIZ. _____
DATE _____

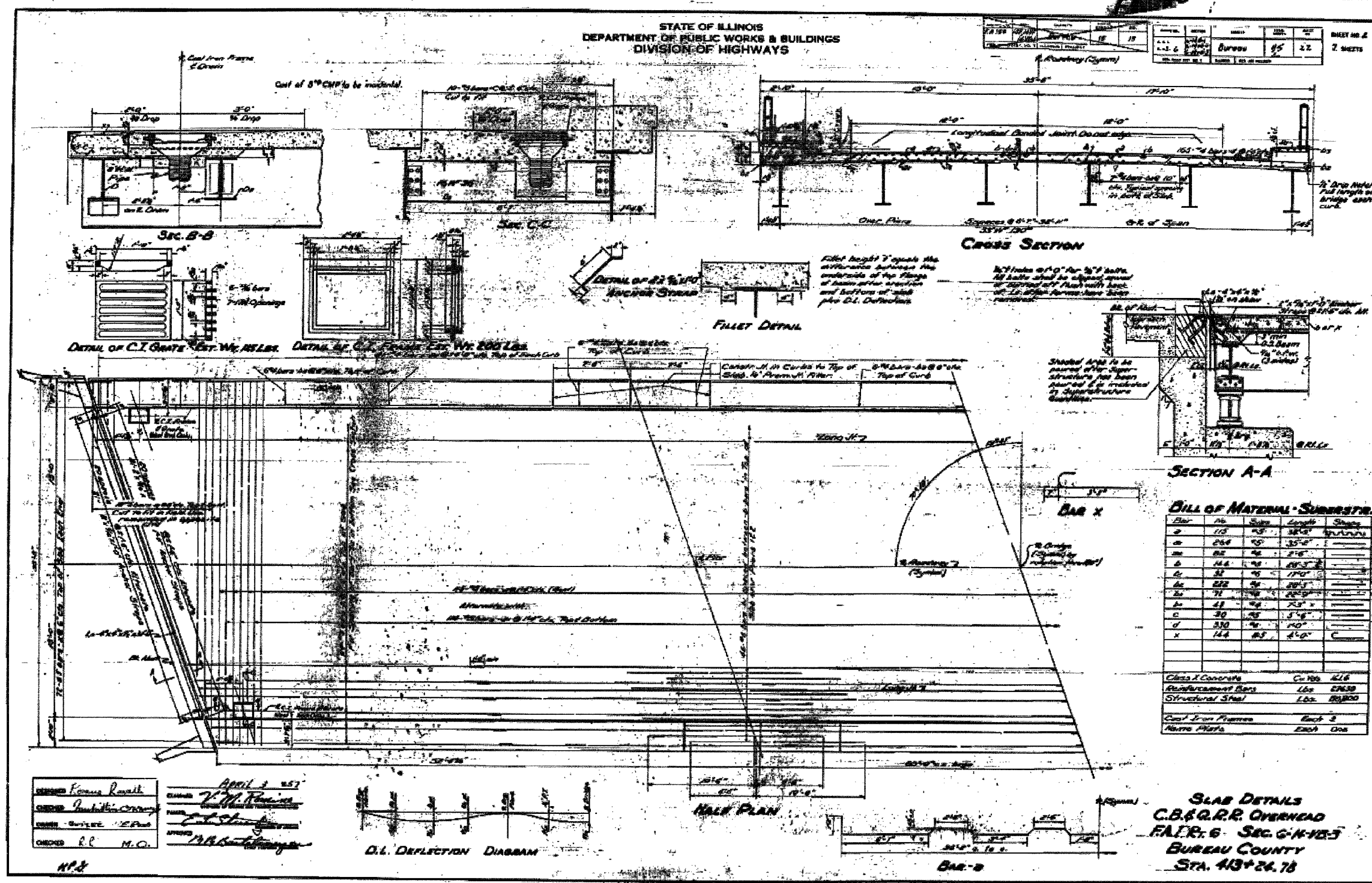
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	156
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



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USER NAME = venzelko

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING BRIDGE
 PLANS**
 SN 006-0037 (WBL)

SCALE: VERT. _____
 DATE: _____
 HORIZ. _____

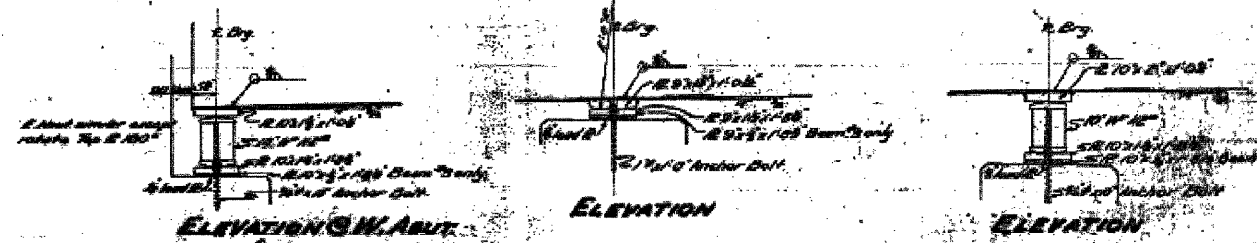
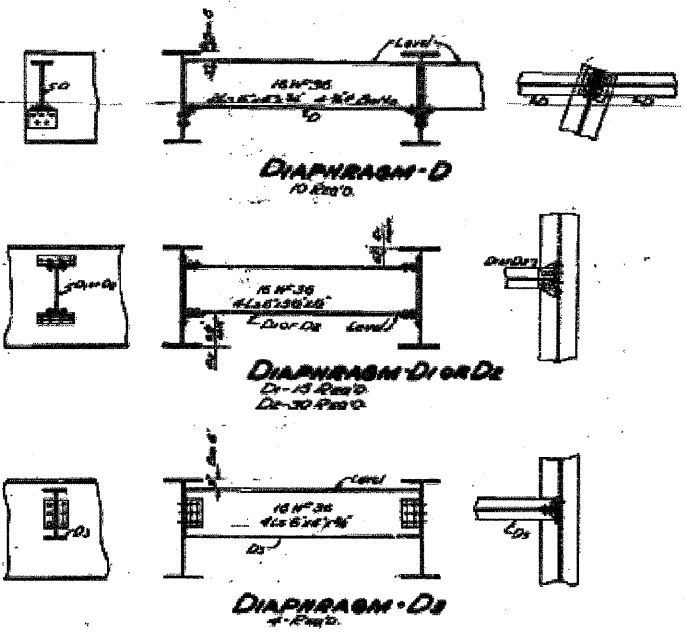
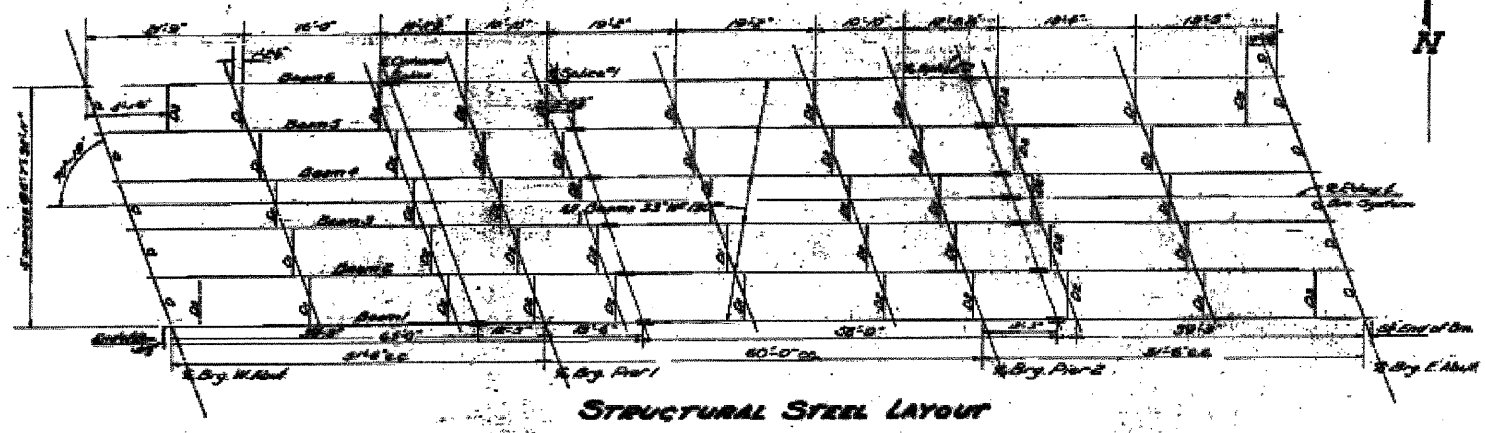
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 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	157
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

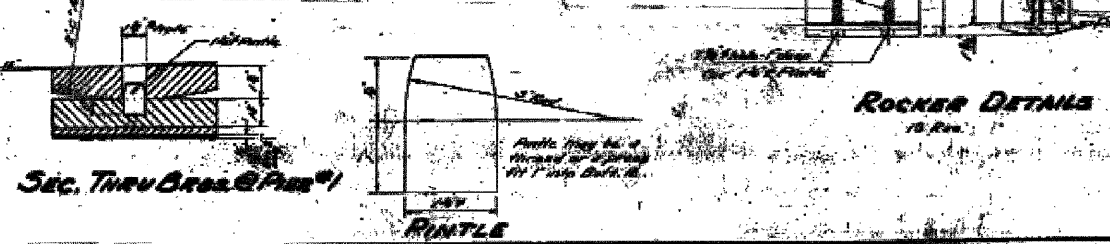
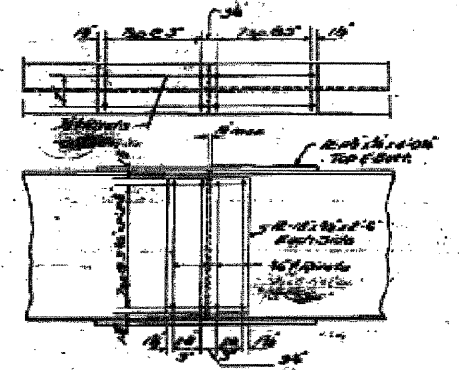
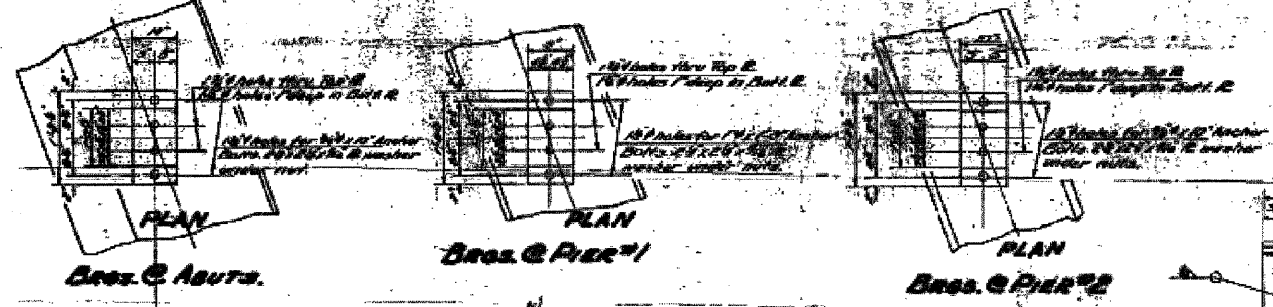
* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

Scale	1" = 10'
Author	Bureau
Drawn	MS
Checked	MS
Project	7
Sheet No.	7



	1	2	3	4	5	6
ELEVATIONS @ TOP OF BEAMS	631.00	632.00	633.00	634.00	635.00	636.00
ELEVATIONS @ TOP OF GIRDERS	632.00	633.00	634.00	635.00	636.00	637.00
ELEVATIONS @ TOP OF DECK	633.00	634.00	635.00	636.00	637.00	638.00
ELEVATIONS @ TOP OF CURB	634.00	635.00	636.00	637.00	638.00	639.00
ELEVATIONS @ TOP OF ROAD	635.00	636.00	637.00	638.00	639.00	640.00



DESIGNED *Rossini Realdi*
CHECKED *Imhoff*
DATE *April 3, 1957*
BY *R.R. M.C.*

APPROVED *Y.M. Forrester*
DATE *April 3, 1957*
BY *R.R. M.C.*

NO. 1

STEEL DETAILS
C.B. & Q.R.R. OVERHEAD
F.A.I. RT. 6 - SEC. 8 - N. 1/2 S. 4
BUREAU COUNTY
STA. 413+24.78

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS

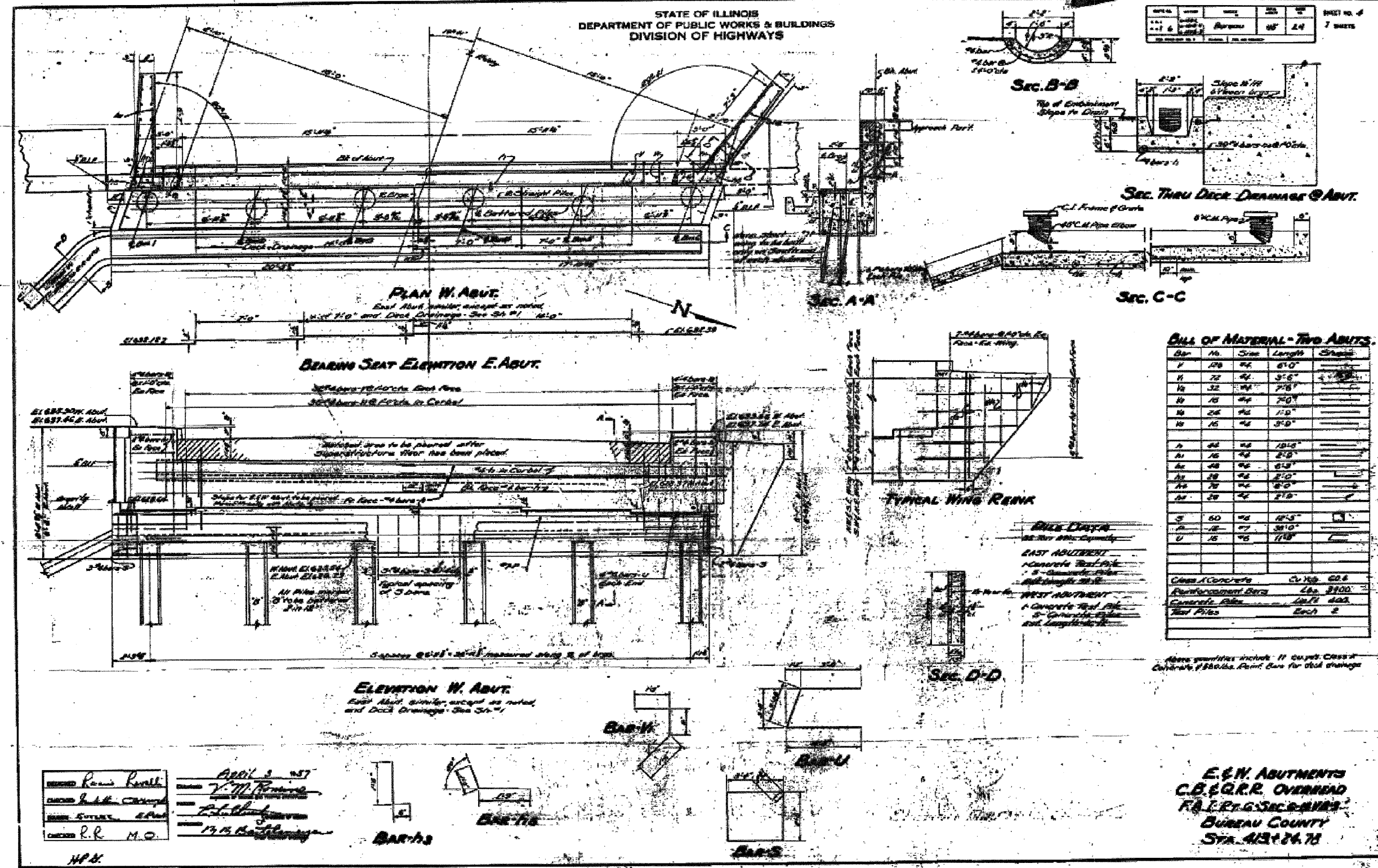
SN 006-0037 (WBL)

SCALE: VERT. _____
HORIZ. _____

DATE _____

DRAWN BY _____
CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	158
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				
06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR				



APPROVED: *Ross Powell*
 CHECKED: *J.H. Cox*
 DATE: *April 3, 1957*
 DRAWN BY: *V.M. Romberg*
 SCALE: *AS SHOWN*
 USER NAME: *R.R. M.O.*

**E.E.N. ABUTMENTS
 C.B. & Q.R.R. OVERROAD
 F&E P.L.G. SEC. 1414
 BUREAU COUNTY
 STA. 413+76.73**

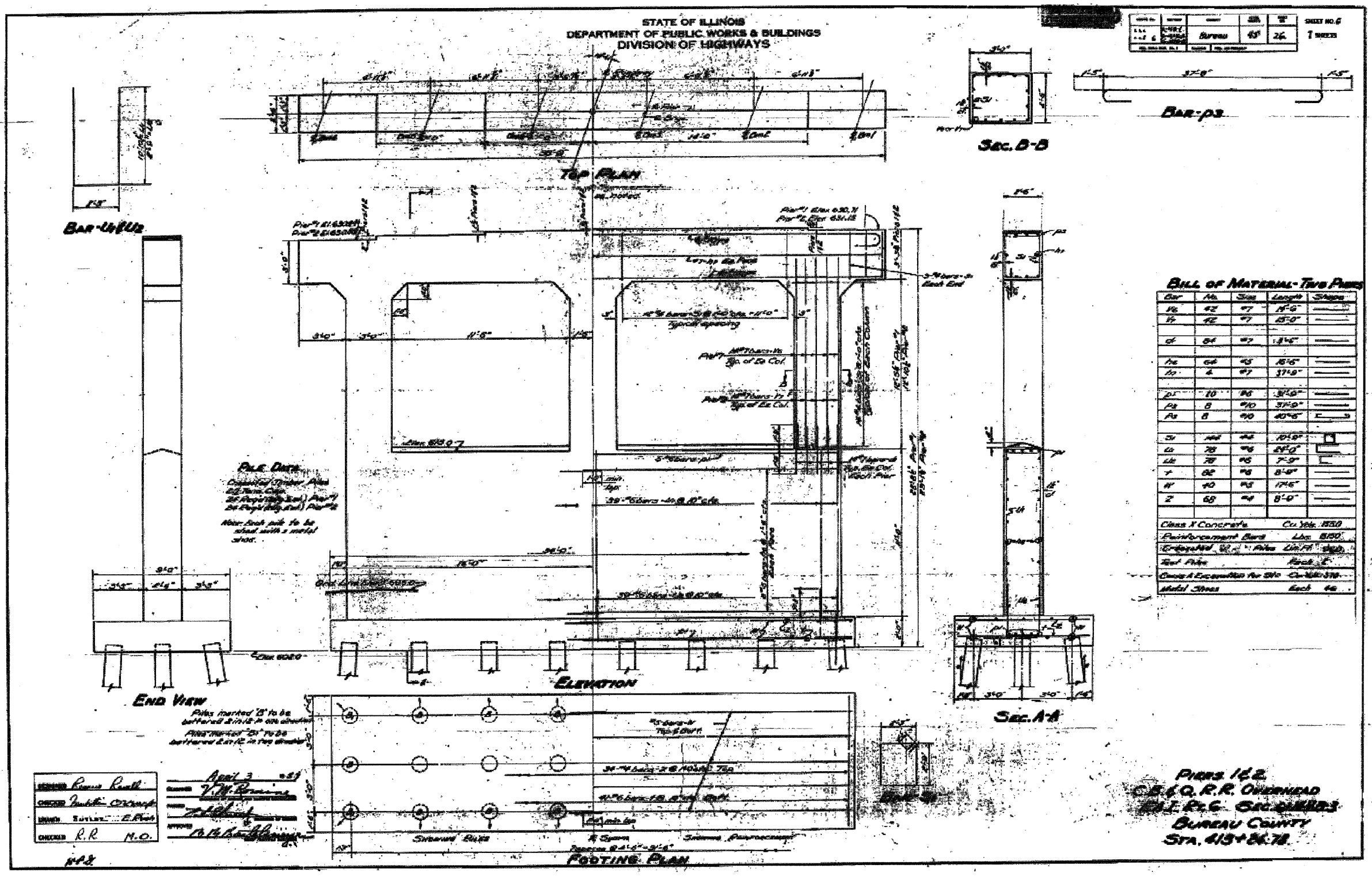
FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING BRIDGE
 PLANS**
 SN 006-0037 (WBL)
 SCALE: VERT. _____
 DATE: _____
 HORIZ. _____
 DRAWN BY: _____
 CHECKED BY: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	159
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



BILL OF MATERIAL - TWO PIERS

Bar	No.	Size	Length	Shape	
16	42	#7	17'-0"		
15	42	#7	15'-0"		
14	84	#7	13'-0"		
13	64	#5	10'-0"		
12	4	#7	37'-0"		
11	10	#5	37'-0"		
10	8	#10	37'-0"		
9	8	#9	40'-0"		
8	142	#2	10'-0"		
7	28	#6	10'-0"		
6	28	#5	7'-0"		
5	62	#6	8'-0"		
4	10	#5	17'-0"		
3	68	#4	8'-0"		

Class I Concrete Cu Yds. 1830
 Reinforcement Bars Lbs. 8180
 Embedded in 1" Ashes Lbs. 1100
 Steel Piles Each 1
 Class I Excavation for 24' Cu Yds. 578
 Metal Shores Each 60

FILE DATA
 Original Under Arch
 24" Dia. Cyl.
 24" Dia. Cyl. End Part
 24" Dia. Cyl. End Part
 Above Arch pile to be
 shed with a metal
 shed.

April 3 1951
 V.M. Brennan
 R.R. M.O.

PIERS 1 & 2
 C.B. & Q. R.R. OVERHEAD
 ILL. P.C. SEC. 211123
 BUREAU COUNTY
 STA. 413+84.78

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
 SN 006-0037 (WBL)
 SCALE: VERT. _____
 HORIZ. _____
 DATE _____
 DRAWN BY _____
 CHECKED BY _____

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F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	160
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT _____		

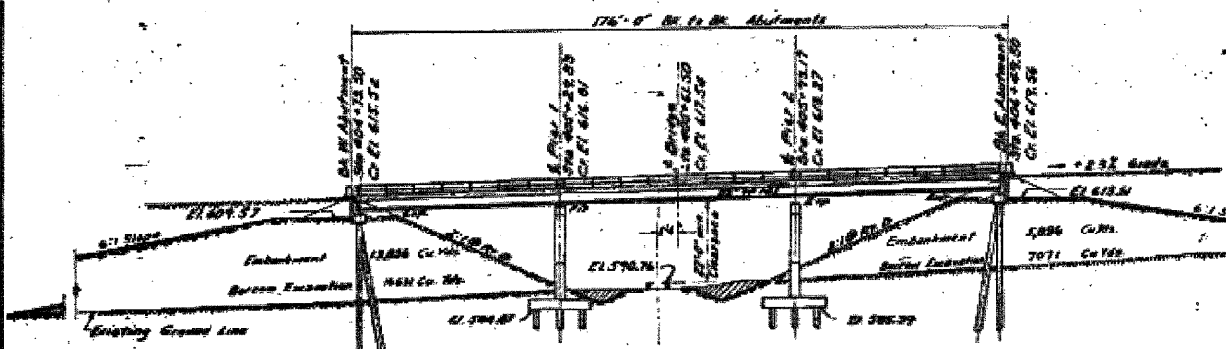
(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

B.M. 50 ft. in 95° 04' 53" L.
Sta. 405+40.01 61.608.24
No Existing Structure

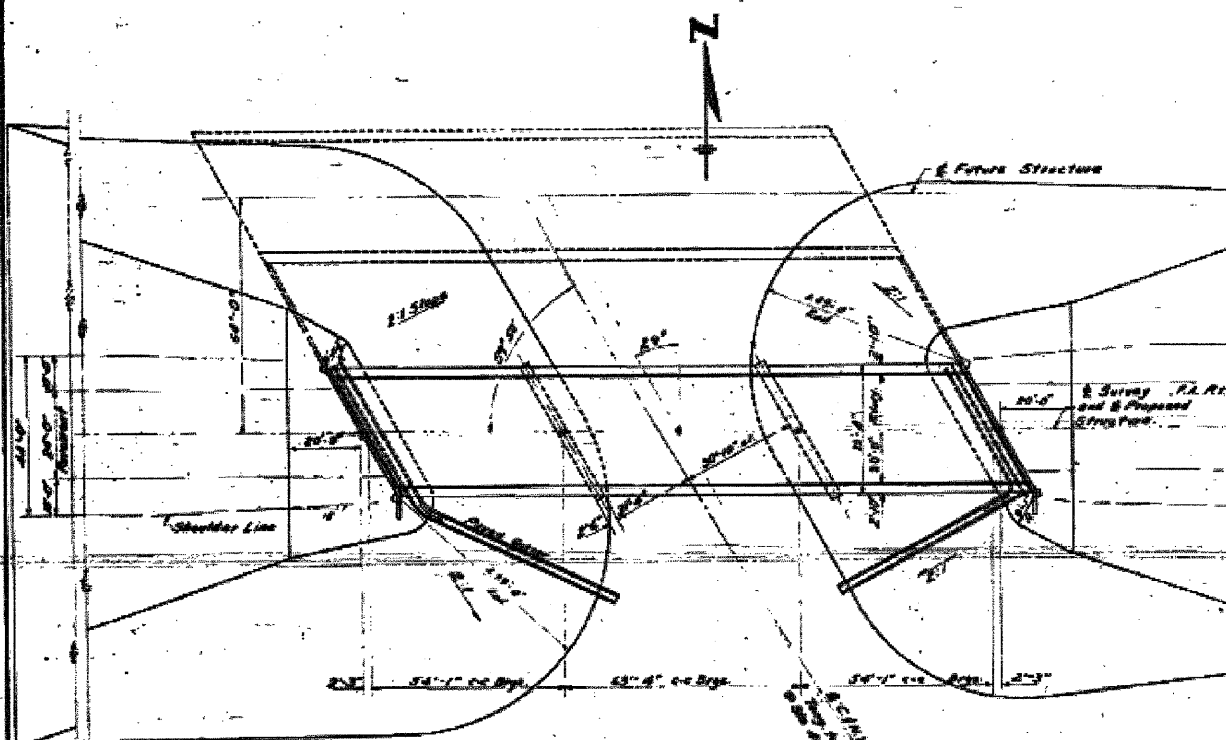
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



DATE	BY	SCALE	NO.
APR 26 1952	H.M. CHAN	AS SHOWN	1

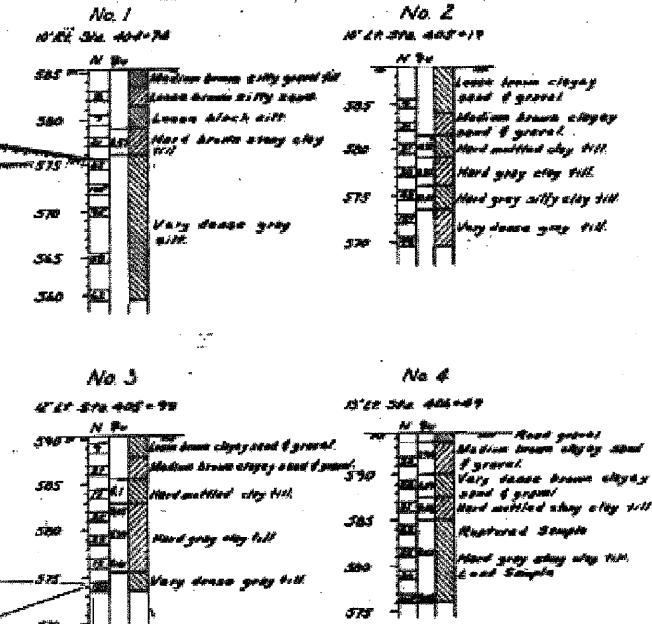


ELEVATION
Scale: 1" = 20'-0"



PLAN

BORING DATA



Note: N = Blows per foot of penetration of sampling spoon, Rammer Weight = 350 lbs. Drop = 12 inches.
90 = Unconfined compressive strength in tons per square foot.

GENERAL NOTES

Open to 1/2" except in beam splices. See 50.3 Class X Concrete shall be used throughout except in End Posts.
Handrail Concrete shall be used in End Posts.
The Concrete Floor Slab shall be poured in an unbroken operation between joints and shall be finished in accordance with Art. 51.8(a) of the Standard Specifications.
All Washers, Bolting Plates, Lead Plates and Anchor Bolts shall be fabricated and set in accordance with Art. 51.4 of the Standard Specifications and are included for payment as Structural Steel.
Before Superstructure is placed construct embankment in accordance with Art. 8 of the Standard Specifications. Anchor Bolts shall be set before footing diaphragms over support.
Except as otherwise provided, all Structural Steel shall receive one coat of Red Lead paint and two full coats of Aluminum paint. See Art. 51.1 to 51.5 incl of the Standard Specifications.
All paint shall be furnished and applied by the Contractor.
All Metal Handrail includes Rail Post Anchors and are included for payment as Lead feet of Metal Handrail. Railings shall be adjusted to true alignment after curbs have been poured. All Rail Posts shall be vertical.
The Contractor Unit Price per linear foot of Metal Handrail includes the furnishing, installing and painting of the handrail. The number of linear feet is measured face to face of concrete piers.
The Contractor shall drive one metal rail post pile in permanent location as directed by the Engineer and one timber post pile before ordering remainder of piles.
Boring Data are shown on this plan only as a guide to bidders in estimating soil conditions which may be encountered in the work.

G. & N. W. R. R.
BUILT 195 BY
STATE OF ILLINOIS
F.A. RT. 154 SEC. 14-VB
LOADING H20-S16

LETTERING FOR NAME PLATE
See Standard 2113

TOTAL BILL OF MATERIAL

ITEM	SUPER	SUB	TOTAL
Class X Concrete	Cu Yds. 189.6	263.0	452.6
Handrail Concrete	Cu Yds. 80'		80'
Reinforcement Bars	Lbs. 179990	23750	203740
Structural Steel	Lbs. 179990		179990
Metal Handrail	Ln. Ft. 248.6		248.6
Washers	Ea. 1		1
Metal Bolt Piles	Ln. Ft. 1	229	229
Timber Piles (New Drop)	Ea. 1		1
Grouted Piles	Ln. Ft. 1	871	871
Timber Piles (Timber)	Ea. 1		1
Metal Pile Shoes	Ea. 1	81	81
Class X Excavation for Street Cuts	Cu Yds. 1		1
Cast Iron Brackets	Ea. 1		1
Barren Excavation	Cu Yds. 22701	22701	45402

DESIGN STRESSES

f_c = 1400 p.s.i. Super
f_c = 800 p.s.i. Slab
f_s = 16000 p.s.i. Structural
f_s = 20000 p.s.i. Point
n = 16

GENERAL PLAN & ELEVATION

F.A. PROJ. FG-574(6)
G. & N. W. R. R. OVERHEAD
F.A. RT. 154 SEC. 14-VB
BUREAU COUNTY
STATION 405+61.50(1)

DESIGNED	H.M. Chan	DATE	April 26 1952
CHECKED	F. H. Smith	EXAMINED	J. M. [Signature]
DESIGNED	J. L. [Signature]	DESIGNED	J. L. [Signature]
CHECKED	J. L. [Signature]	CHECKED	J. L. [Signature]

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0034 (WBL)
SCALE: VERT. _____
DATE: _____ HORIZ. _____
DRAWN BY _____
CHECKED BY _____

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 USER NAME = wenzelko

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	161
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

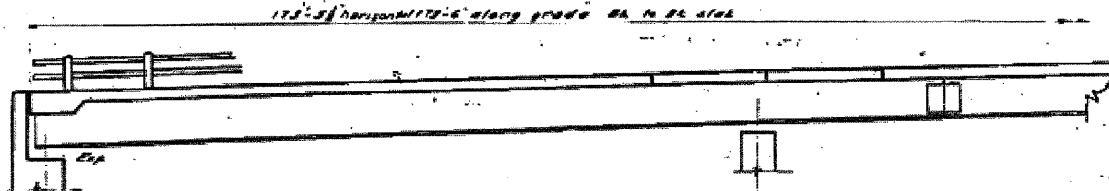
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STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

DATE	BY	CHKD	APP'D	SCALE
10/20/55	W. J.

SHEET NO 2
OF SHEETS

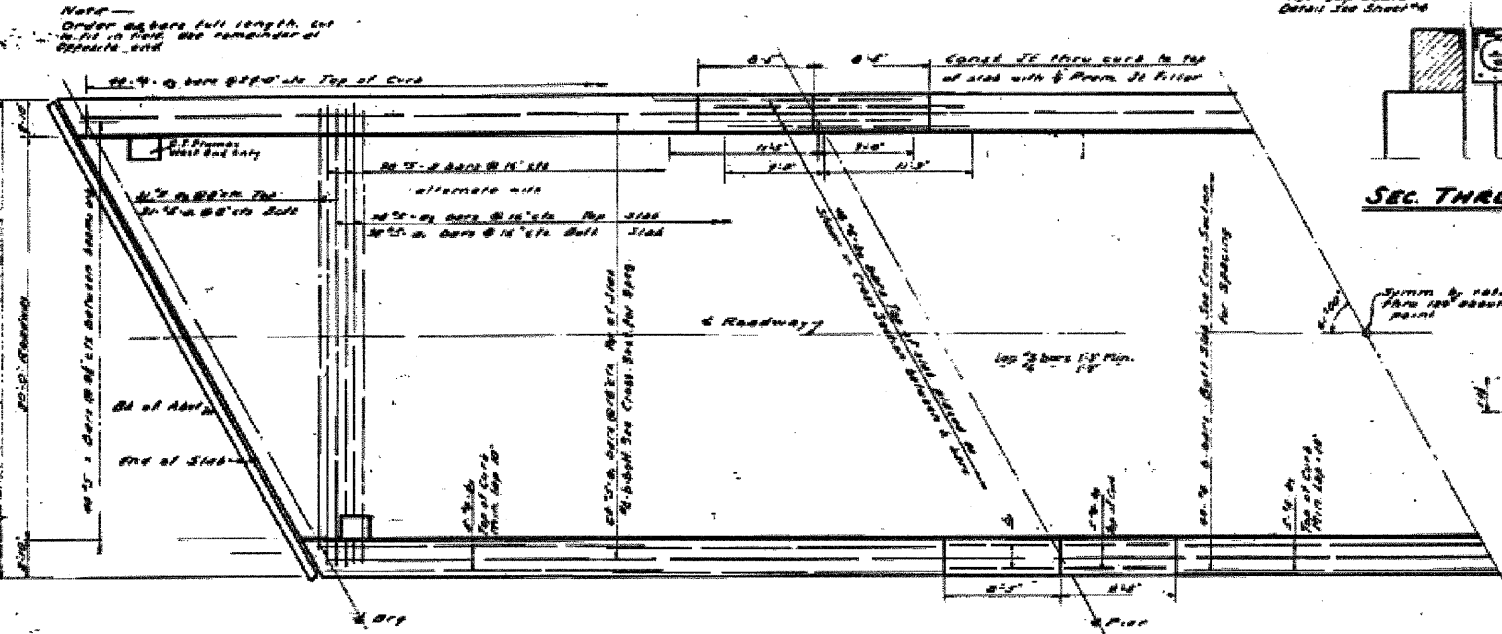
For Handrail Details
See Sheet 14



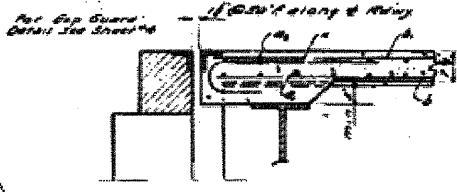
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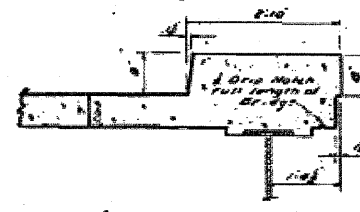
BAR 2



PLAN



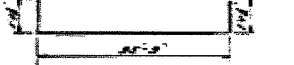
SEC. THRU END OF SLAB



CURB & FLOOR DRAIN DETAIL



DEFLECTION DIAGRAM



BAR 3



BAR X

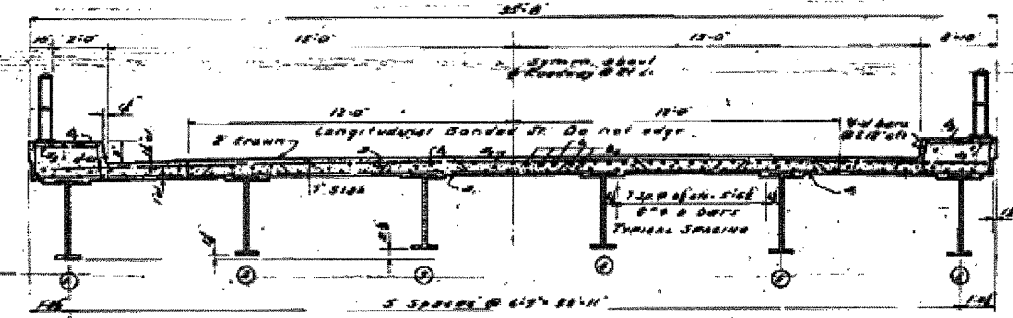
BILL OF MATERIAL - SUPER

QTY	NO	SIZE	LENGTH	SHAPE
1	100	1/2"	36'-0"	...
2	120	1/2"	37'-4"	...
4	120	1/2"	36'-0"	...
4	20	1/2"	21'-0"	...
5	200	1/2"	22'-0"	...
5	110	1/2"	23'-0"	...
4	60	1/2"	23'-0"	...
4	20	1/2"	23'-0"	...
4	20	1/2"	18'-0"	...
2	20	1/2"	23'-0"	...
4	20	1/2"	23'-0"	...

Slab & Concrete	G.M.	188.6
Reinforcement Bars	LB	23500
Hand Dishes	EA	1
Structural Steel	LB	179390
Cast Iron Frames	EA	2

METHOD OF DETERMINING FILLET HEIGHT

After all structural steel has been erected elevations of the top flanges of the beams shall be taken at intervals not to exceed 10 ft. From these elevations subtract the increment of deflection for these points determined from the deflection diagram. The elevations so obtained subtracted from the theoretical slab elevations, minus steel thickness, equals the fillet height above top of beam.



NEAR END SLAB CROSS SECTION @ RT Ls TO S ROADWAY

SUPERSTRUCTURE
CEN. W.R. OVERHEAD
F.A. RT 154 - SEC. 14-VB
BUREAU COUNTY
STATION 405 + 61.50(1)

DESIGNED	W. J. ...	DATE	April 26 1955
CHECKED	E. L. ...	DATE	...
DRAWN	A. M. ...	DATE	...
CHECKED	...	DATE	...

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE
PLANS
SN 006-0034 (EBL)
SCALE: VERT. _____
HORIZ. _____
DATE _____
DRAWN BY _____
CHECKED BY _____

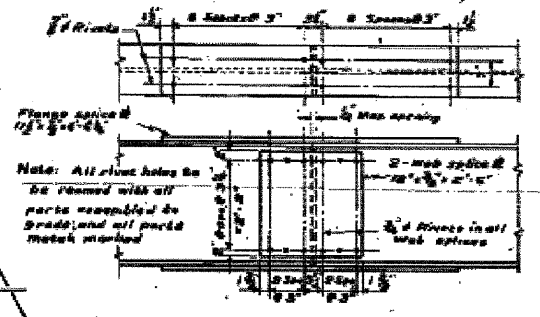
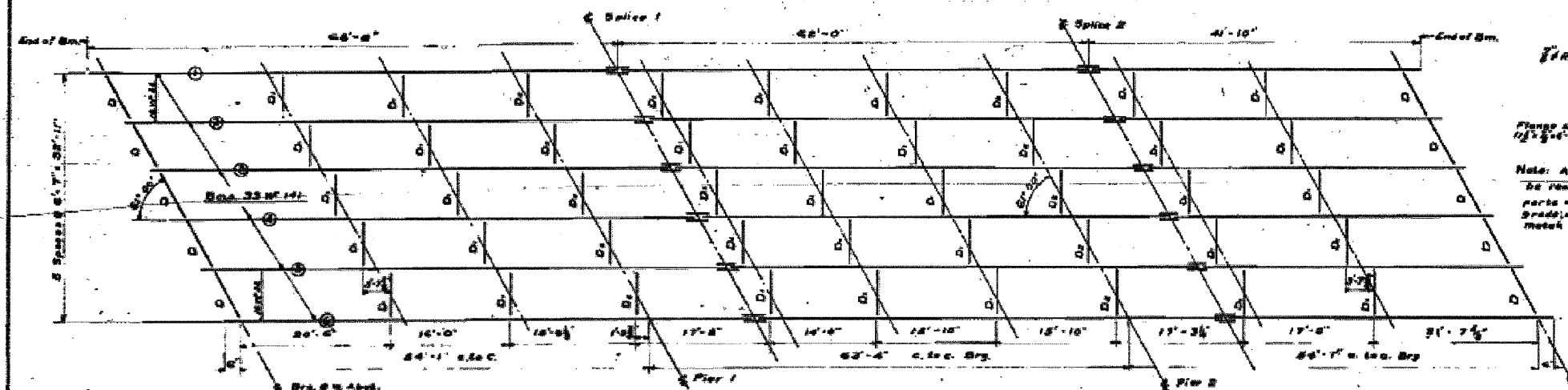
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	162
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

DATE	BY	CHKD	APP'D	NO.	NO.
11/14/55	W. J.	16	6

SHEET NO. 3
8 SHEETS



SPLICE DETAIL

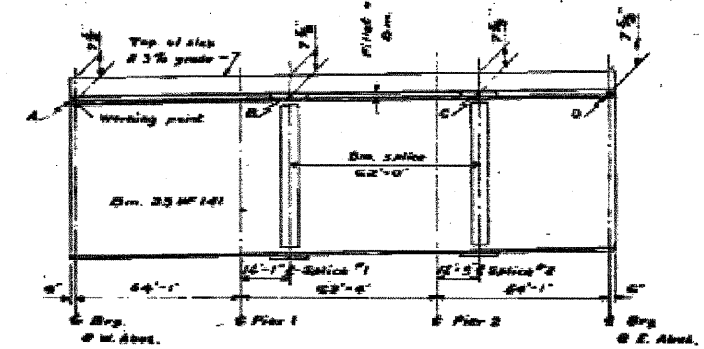
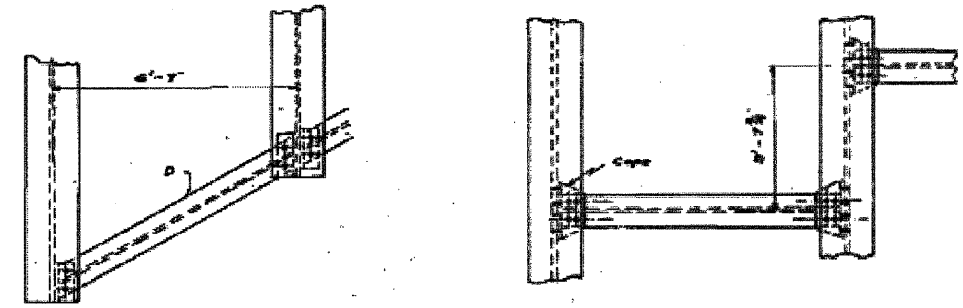
For splices subpunch holes and ream to 1/8" for 3/4" rivets and ream to 1/4" for 1" rivets

PLAN OF STRUCTURAL STEEL
Showing Horizontal Dimensions

Note
All Beams 33 WF 141
Diaph. D 12 WF 36
Diaph. D₁/D₂ 16 WF 36

SHIM PLATES

Beam	WF	Depth	Width
1	33	42	14.1
2	12	36	10.0
3	16	42	14.1
4	16	42	14.1
5	16	42	14.1
6	16	42	14.1

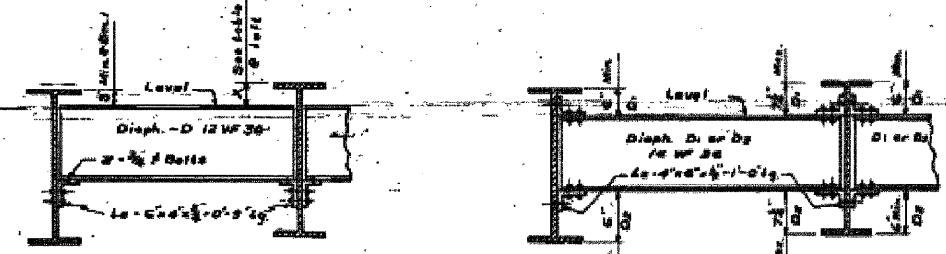


WORKING POINT ELEVATIONS

Beam	A	B	C	D
1	616.537	616.587	617.527	618.477
2	616.726	616.785	617.716	618.666
3	616.828	616.844	617.872	618.822
4	616.568	616.576	617.587	618.506
5	616.578	616.638	617.668	618.618
6	616.657	616.518	617.647	618.657

X" DISTANCE @ DIAP. D

Beam	X"
1	3"
2	5"
3	7"
4	8"
5	8"
6	8"



DIAPHRAGM-D

DIAPHRAGMS-D₁-D₂

STRUCTURAL STEEL

C. & N.W.R. OVERHEAD
F.A. RT 164 SEC 14-VB
BUREAU COUNTY
STATION 405+61.50 (1)

DESIGNED: *H. L. ...*
CHECKED: *E. L. ...*
DATE: April 26 1955
BY: *V. M. ...*
CHECKED: *...*

FOR INFORMATION ONLY

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0034 (EBL)
SCALE: VERT. _____
DATE: _____ HORIZ. _____
DRAWN BY: _____
CHECKED BY: _____

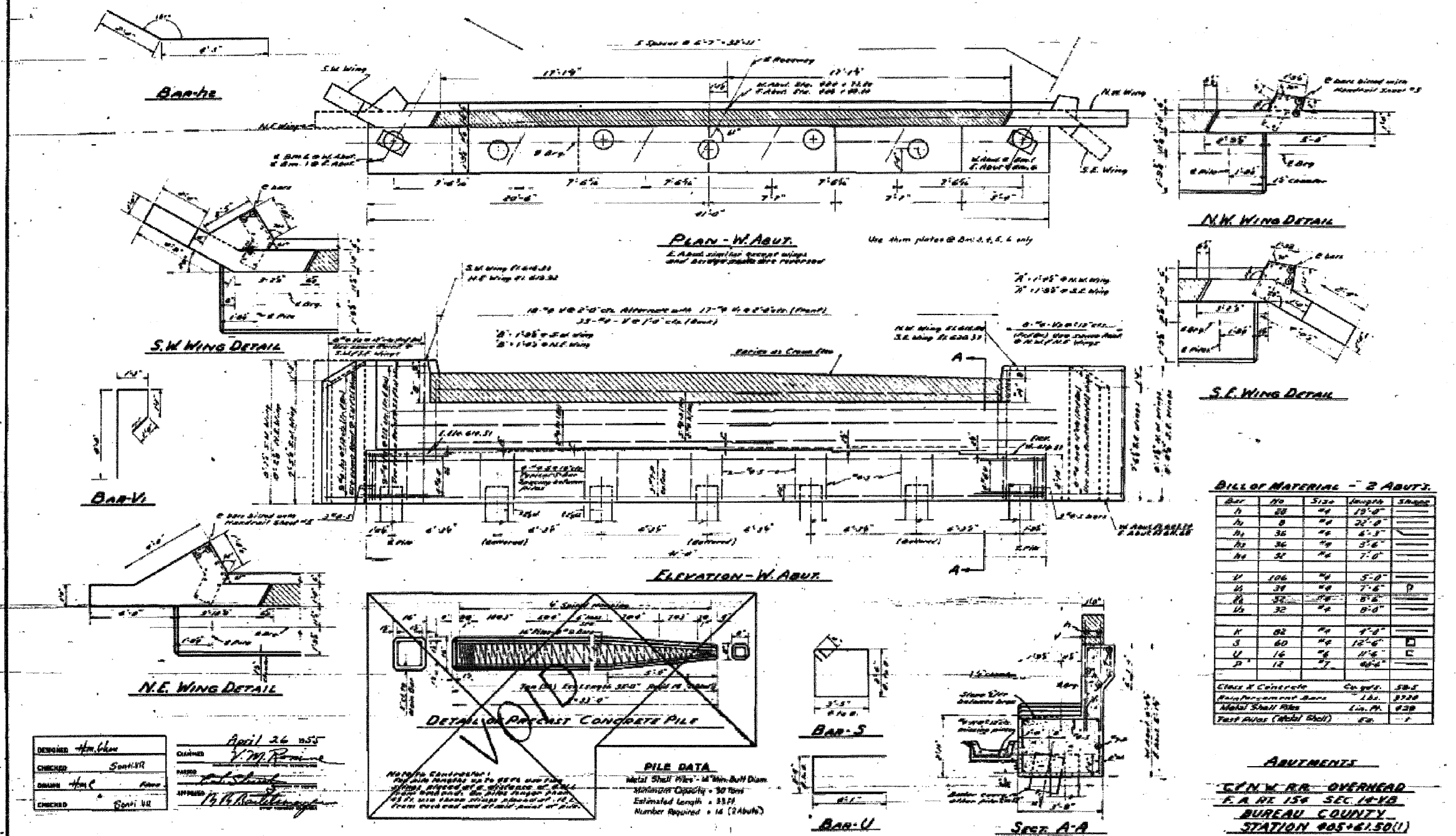
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	164
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

DATE	BY	REVISION	NO.	DATE
APR 26 1955	V.M. ROSS		1	

SHEET NO. 6
OF 8 SHEETS



DESIGNED: *H.M. Gless*
CHECKED: *S.M. HIR*
DRAWN: *H.M. Gless*
DATE: *April 26 1955*
APPROVED: *V.M. ROSS*

PILE DATA
Metal Shell Piles - 14" Min. Bull Diam.
Minimum Capacity - 30 Tons
Estimated Length - 33 Ft.
Number Required - 14 (2 Abut.)

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0034 (EBL)

SCALE: VERT. _____
HORIZ. _____
DATE: _____ DRAWN BY: _____
CHECKED BY: _____

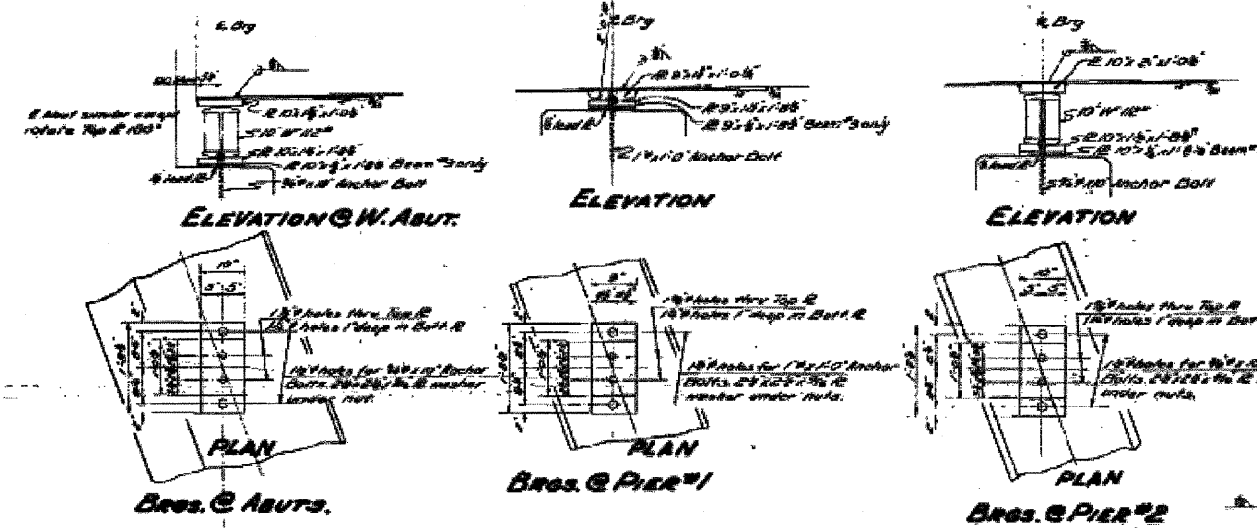
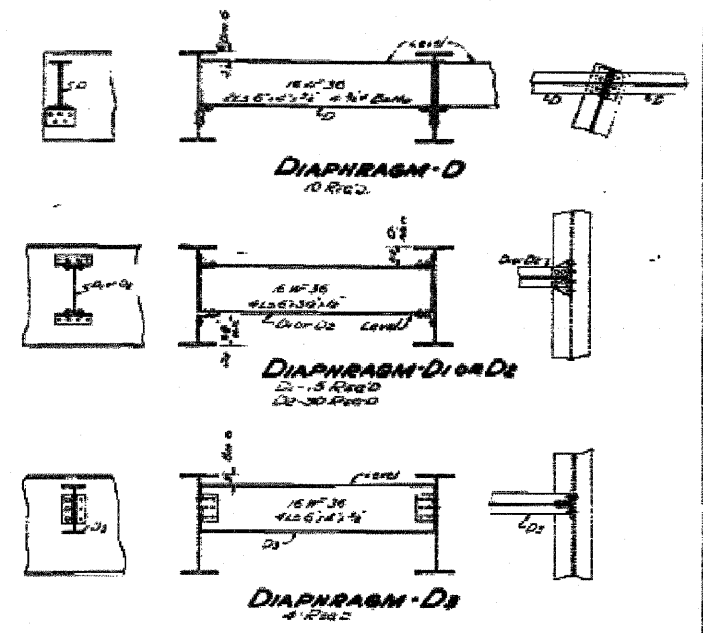
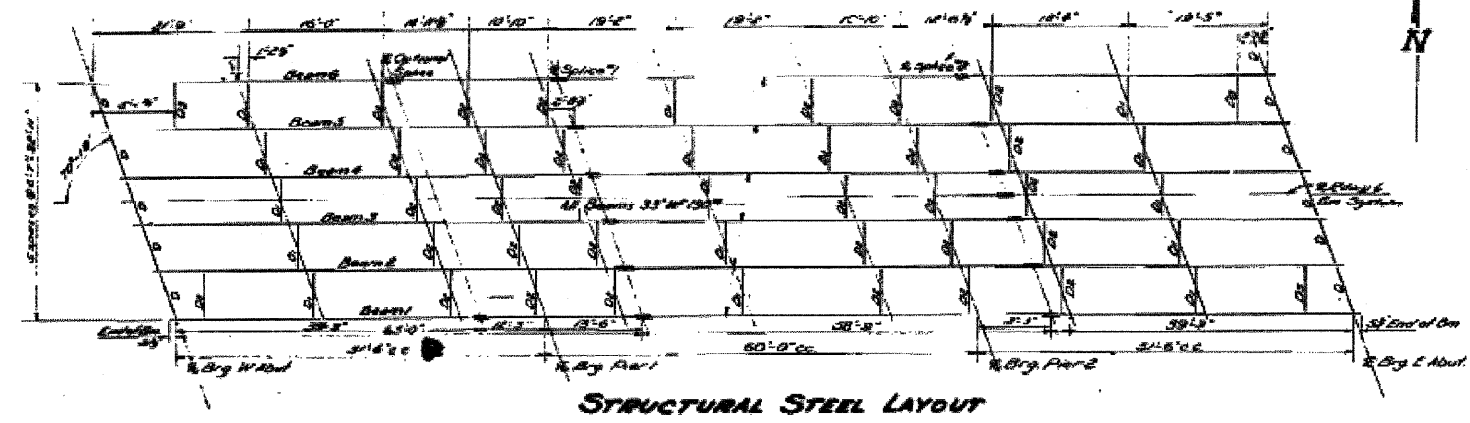
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STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

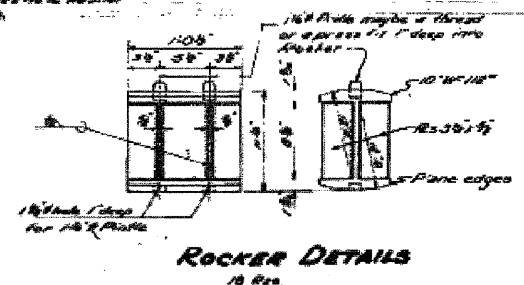
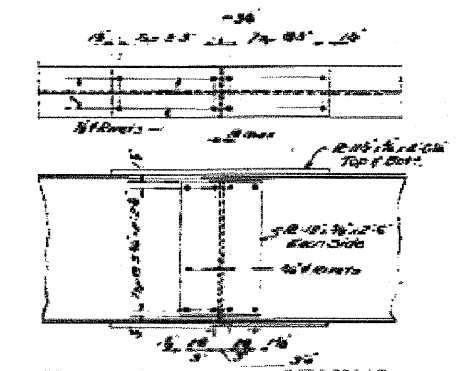
* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

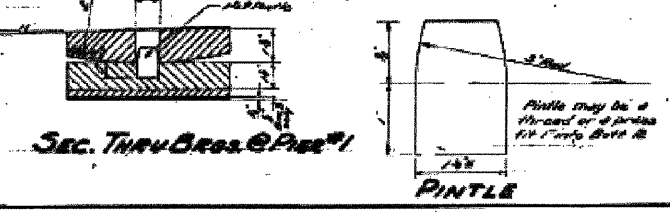
DESIGNED BY	DATE	PROJECT	NO.	SHEET NO.
W. H. H. H.	APR 26 1952	Bureau	# 6	7 SHEETS



E	1	2	3	4	5	6
W. Abutment	633.70	633.70	633.70	633.70	633.70	633.70
Span #1	634.00	634.74	634.75	634.70	634.00	634.00
Span #2	634.00	634.00	634.00	634.00	634.00	634.00
E. Abutment	630.04	630.04	630.04	630.04	630.04	630.04



DESIGNED	W. H. H. H.
CHECKED	J. M. H. H.
DATE	APR 26 1952



STEEL DETAILS
C.B. & Q.R.R. DYERHEAD
FA. RT. 154 SEC. 14-VB1
BUREAU COUNTY
STA. 413+51.25 (1)

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0036 (EBL)
SCALE: VERT. _____
HORIZ. _____
DATE _____
DRAWN BY _____
CHECKED BY _____

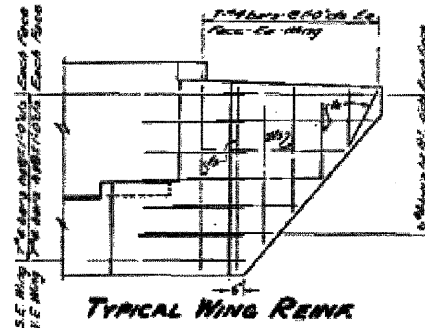
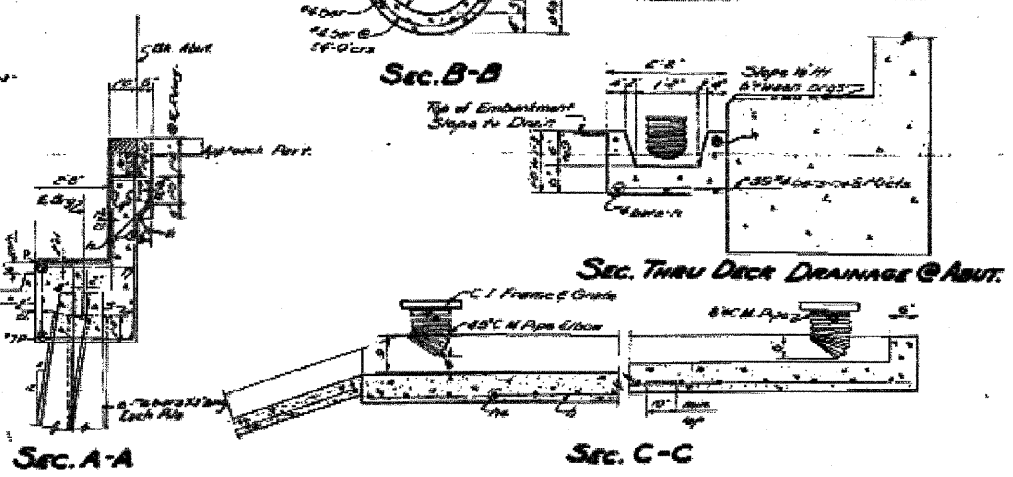
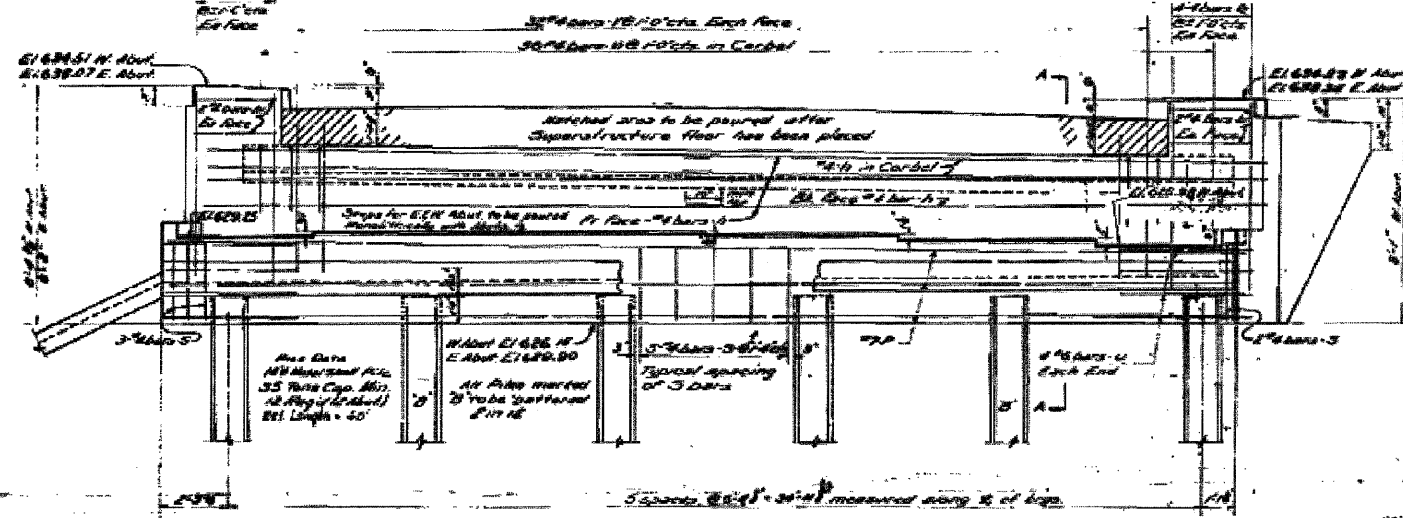
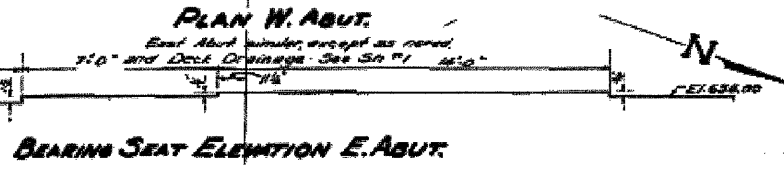
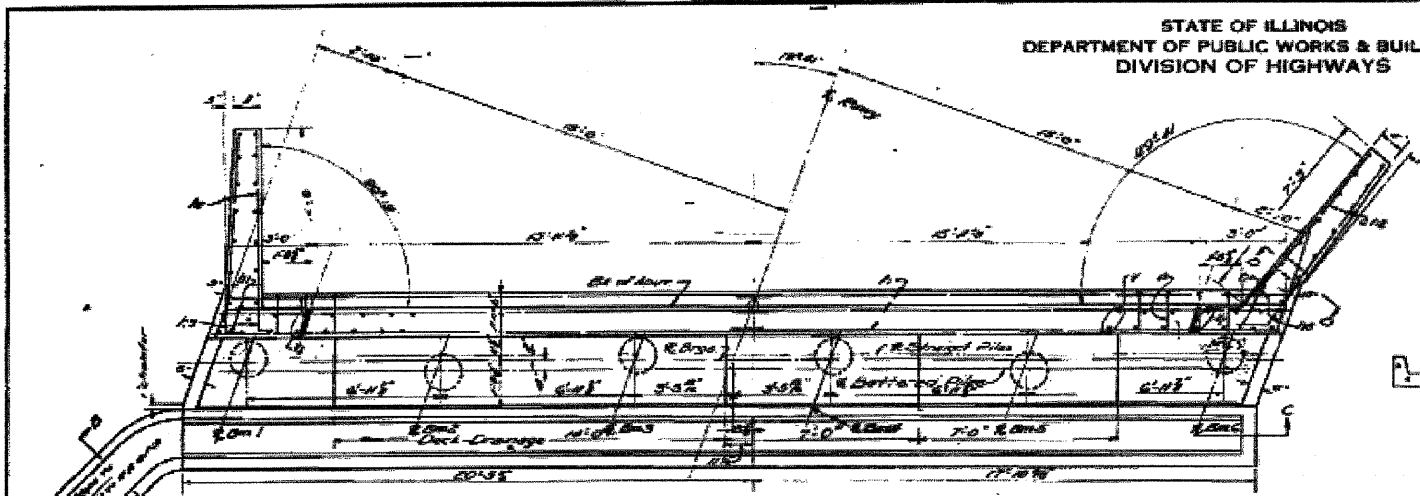
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	169
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

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

SECTION	NO.	DATE	BY	REVISION
106	10004	Bureau	11	7

SHEET NO. 4
7 SHEETS

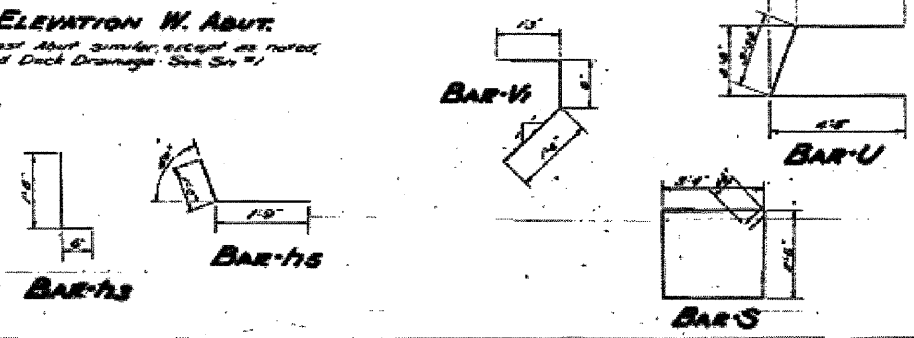


BILL OF MATERIAL - TWO ABUTS.

Bar	No.	Size	Length	Shape
1	126	#4	0'-0"	
2	72	#4	3'-6"	
3	32	#4	7'-8"	
4	16	#4	7'-0"	
5	24	#4	1'-9"	
6	16	#4	3'-0"	
7	48	#4	15'-6"	
8	16	#4	6'-0"	
9	16	#4	6'-0"	
10	24	#4	2'-0"	
11	72	#4	0'-0"	
12	24	#4	2'-9"	
13	60	#4	12'-6"	
14	24	#4	30'-0"	
15	16	#6	11'-8"	

Class I Concrete C₁ 4000
Reinforcement Bars L₁ 3000
Steel Decking 1/2" x 1/2" x 1/2" L₁ 400
Steel Pipes Each 2

Sec. D-D



E. & W. ABUTMENTS
C.B. & Q.R.R. OVERHEAD
F.A. RT. 154 SEC. 14-1B/1
BUREAU COUNTY
STA. 413+31.25 (1)

DESIGNED: Ronald Russell
CHECKED: J. M. ...
DATE: April 26, 1952

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

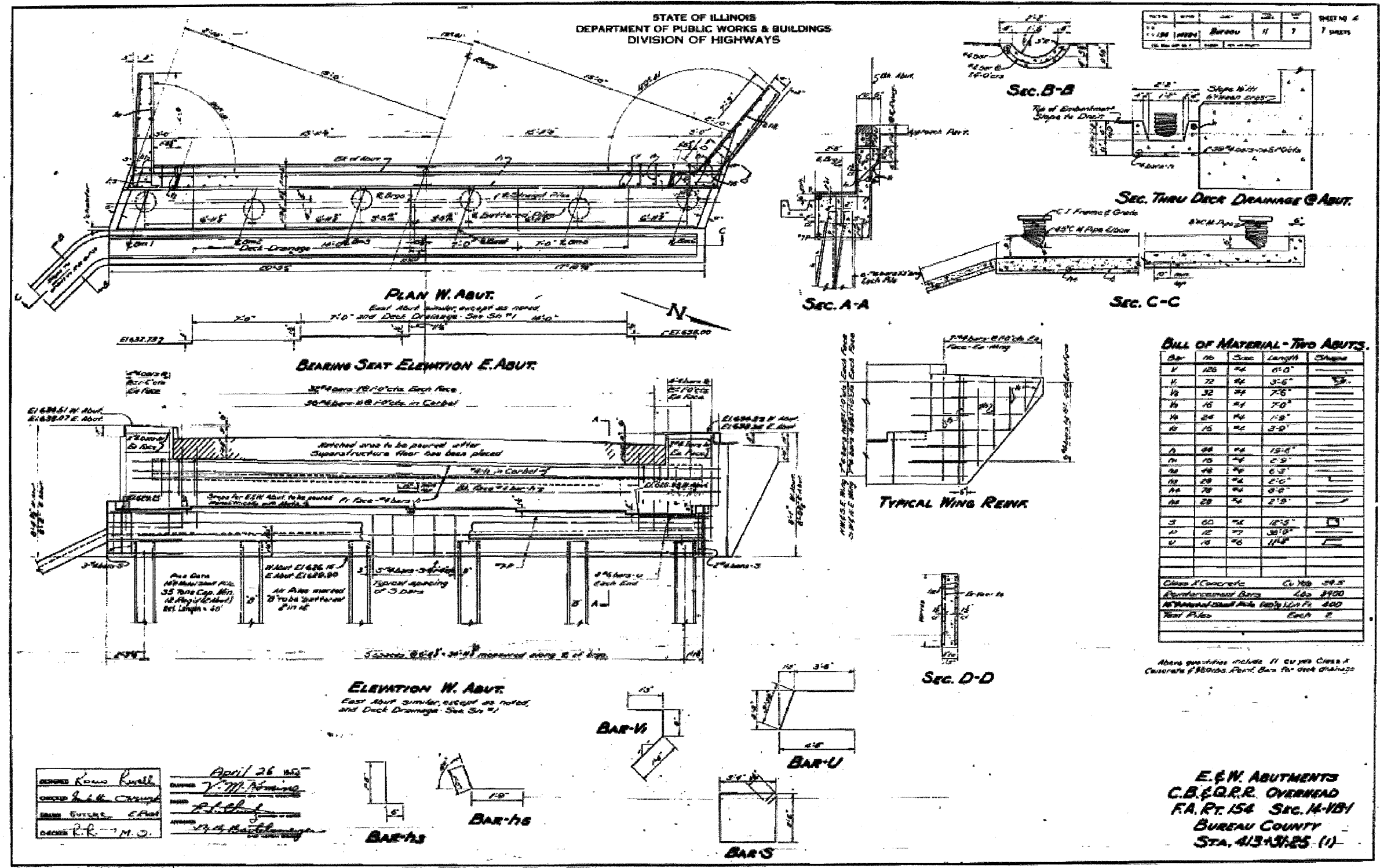
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE
PLANS
SN 006-0036 (EBL)

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
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F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	170
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



FOR INFORMATION ONLY

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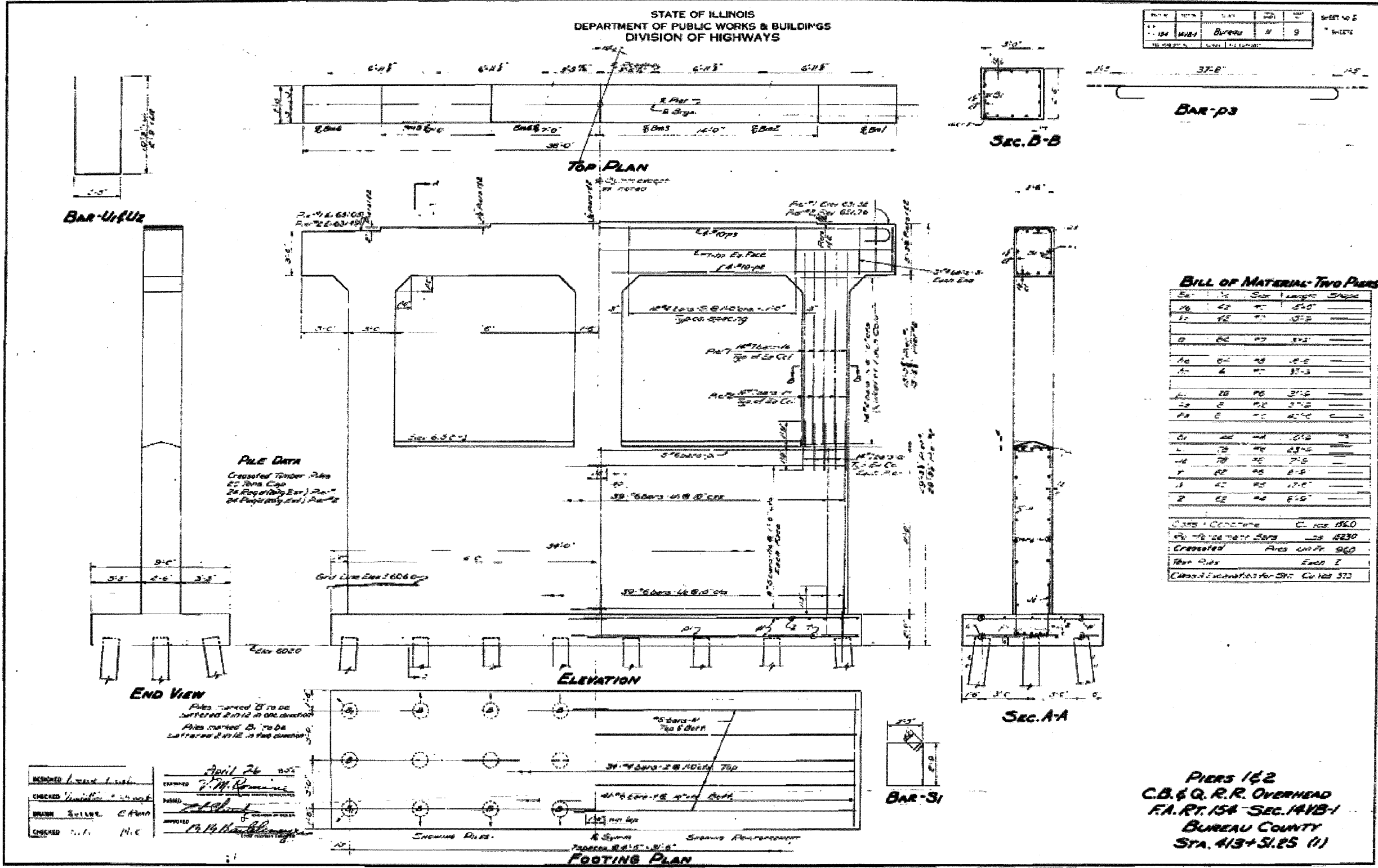
ILLINOIS DEPARTMENT OF TRANSPORTATION
**EXISTING BRIDGE
 PLANS**
 SN 006-0036 (EBL)

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80			219	171
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



FOR INFORMATION ONLY

DESIGNED	DATE	APPROVED
Checked	April 26 1957	W.M. [Signature]
Checked		[Signature]
Checked		[Signature]

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING BRIDGE PLANS
SN 006-0036 (EBL)

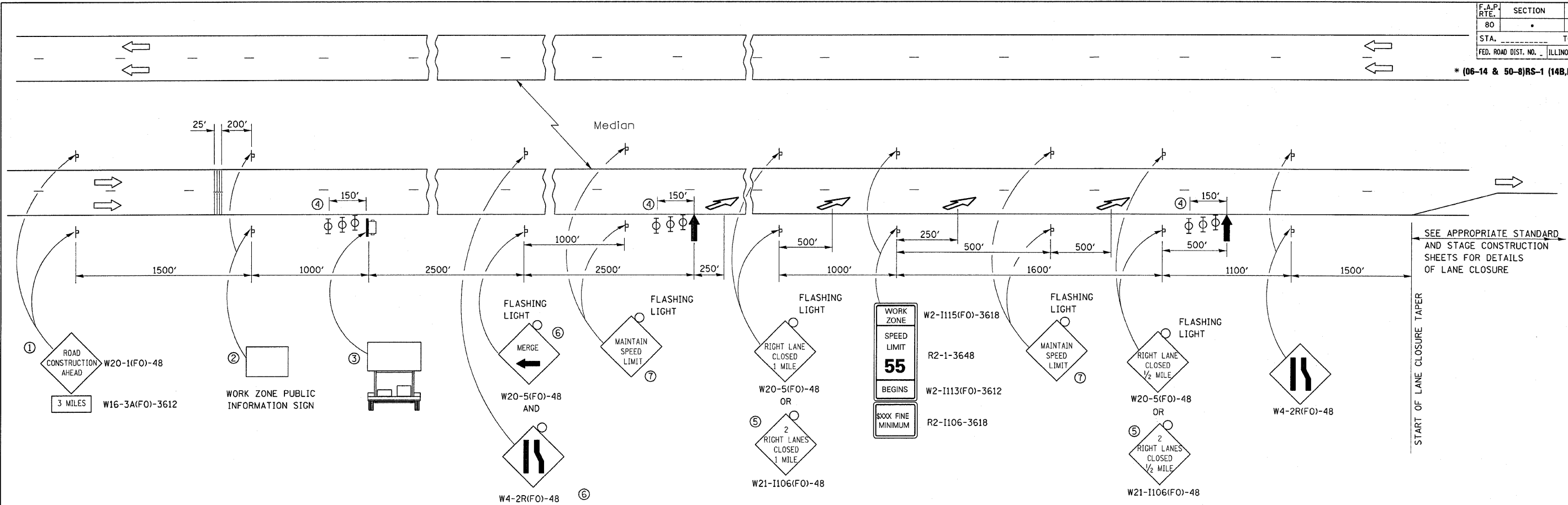
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DATE _____ DRAWN BY _____
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 USER NAME: wenzelko

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	172
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



SEE APPROPRIATE STANDARD AND STAGE CONSTRUCTION SHEETS FOR DETAILS OF LANE CLOSURE

START OF LANE CLOSURE TAPER

- ARROW BOARD
- PORTABLE CHANGEABLE MESSAGE SIGN
- SIGN
- TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT
- LANE DROP ARROW - SEE STANDARD 780001
- TEMPORARY THERMOPLASTIC RUMBLE STRIPS

- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
"RIGHT LANE CLOSED" / " x MILES AHEAD"
"LEFT LANE CLOSED" / " x MILES AHEAD"
"ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ 48"x48" FLUORESCENT ORANGE SIGN WITH 7" HIGH BLACK LETTERS.

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

ALL SIGNS, MESSAGE BOARDS AND OTHER TRAFFIC CONTROL DEVICES UP TO AND INCLUDING THE FIRST ARROW BOARD ARE STATIONARY. THE OTHER SIGNS AND OTHER ARROWBOARD SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**APPROACH TO
 LANE CLOSURE,
 FREEWAY/EXPRESSWAY**

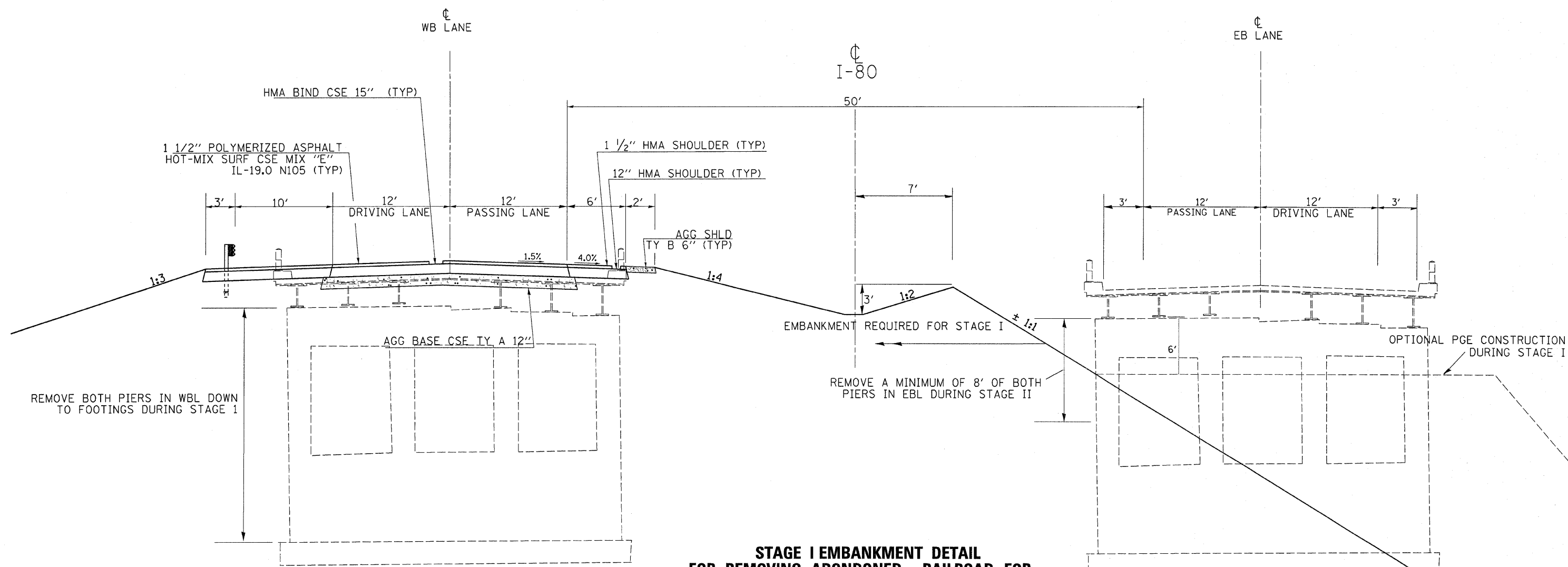
DETAIL FOR MODIFICATION OF STANDARD 701400 **STANDARD 701400 (SPECIAL)**

PLOT DATE = Aug 27, 2008 - 02:02:07 PM
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 USER NAME = wenzelko

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	174
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

NOTE: ALL ABUTMENTS TO BE REMOVED 1' BELOW EXISTING ABUTMENT ELEVATIONS



**STAGE I EMBANKMENT DETAIL
FOR REMOVING ABANDONED RAILROAD FOR
SN 006-0034 AND SN 006-0035**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

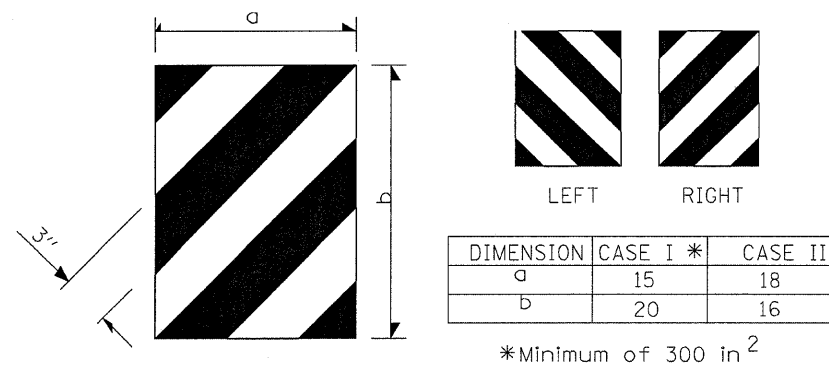
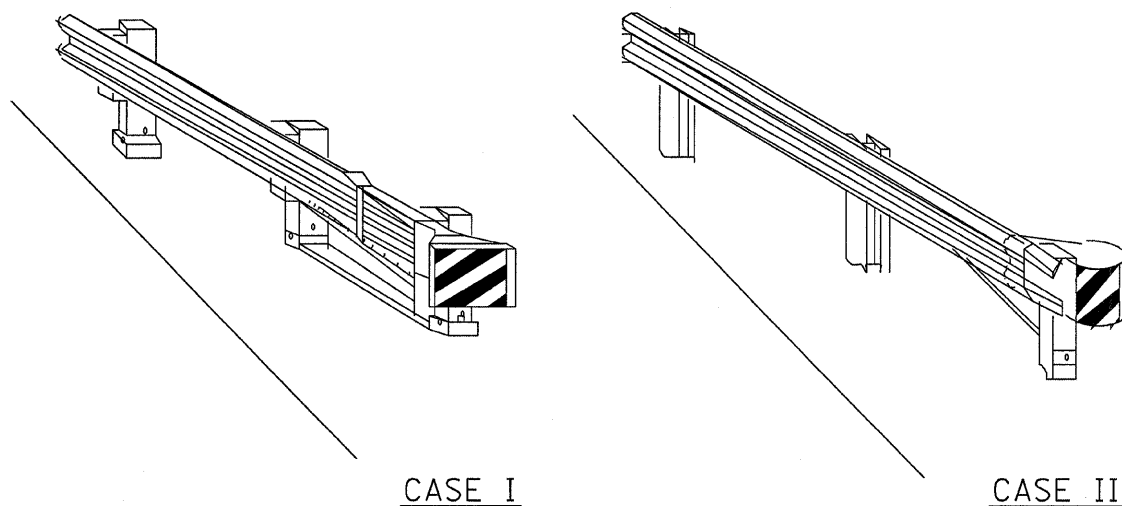
**EMANKMENT
CONSTR. AT
RAILROAD**

SCALE: VERT.
HORIZ.
DATE

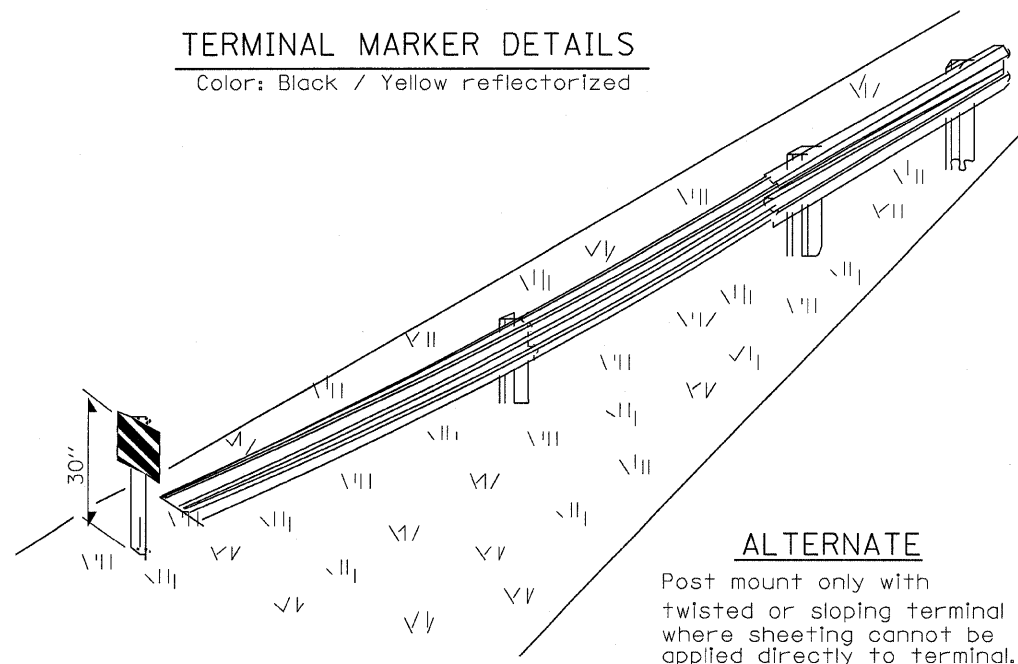
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	175
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

* (06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR

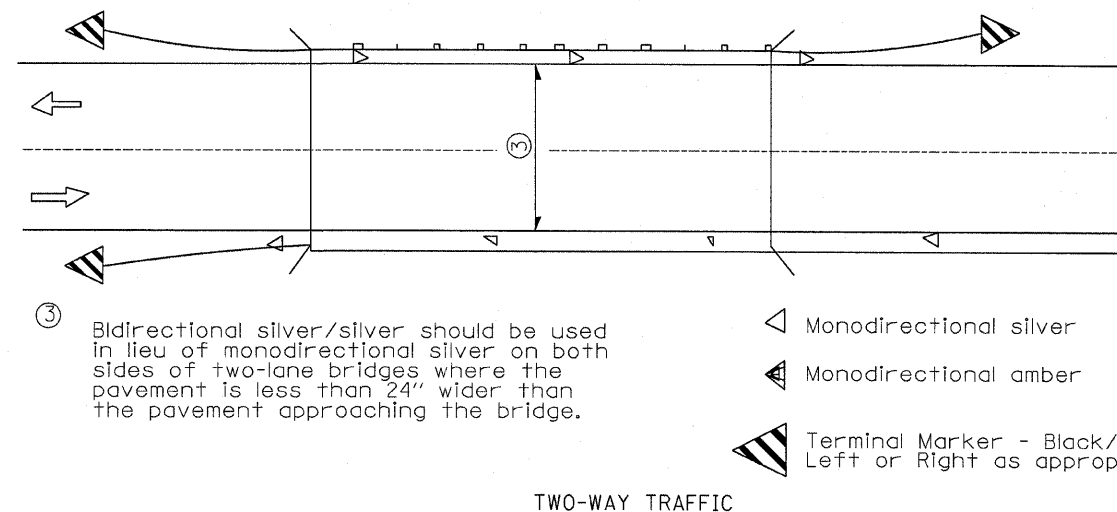
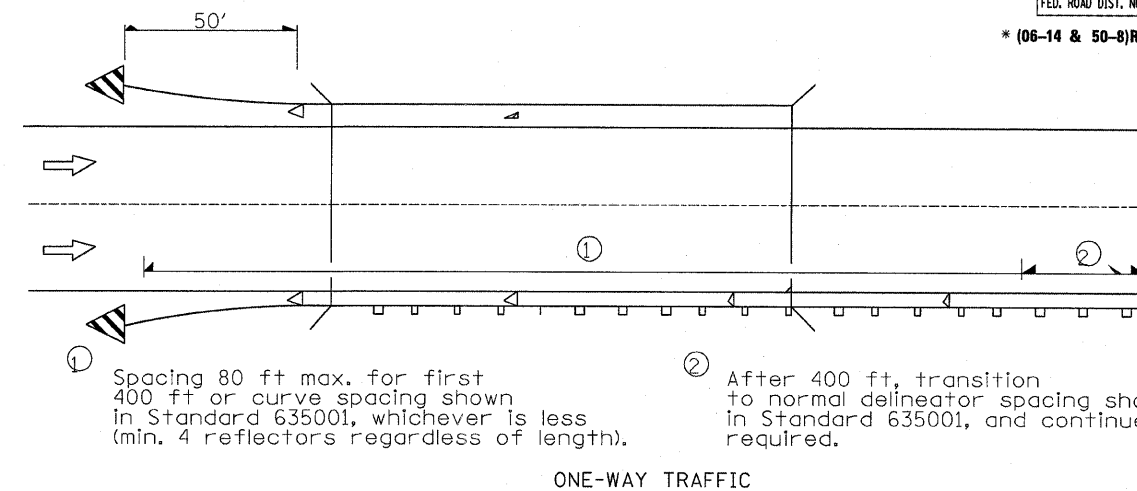


TERMINAL MARKER DETAILS
Color: Black / Yellow reflectorized

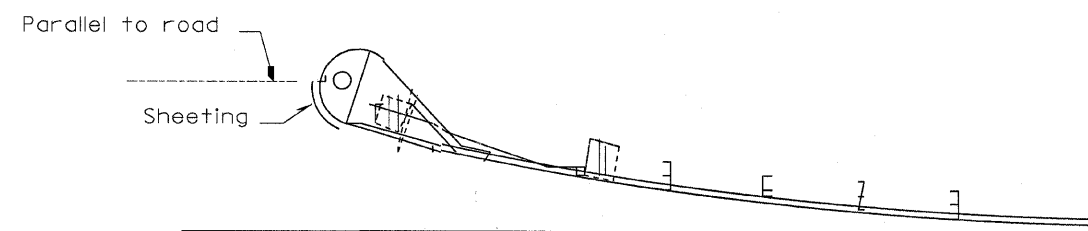


ALTERNATE

Post mount only with twisted or sloping terminal where sheeting cannot be applied directly to terminal.



GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS



SHEETING POSITION: CASE II

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PLOT SCALE = 1000.0000 / IN.
USER NAME = wenzelko

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

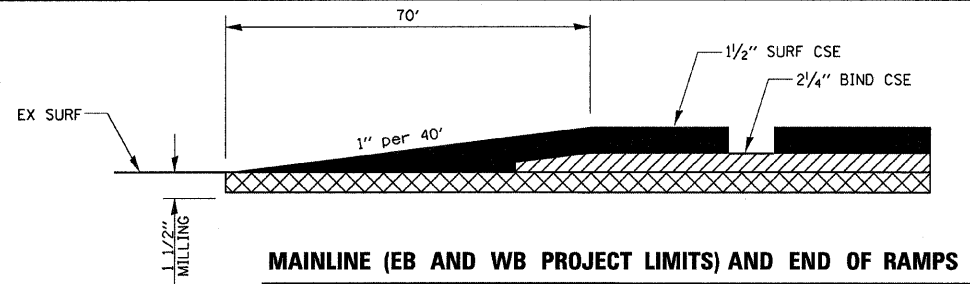
DETAILS

SCALE: VERT. _____
HORIZ. _____
DATE _____

DRAWN BY _____
CHECKED BY _____

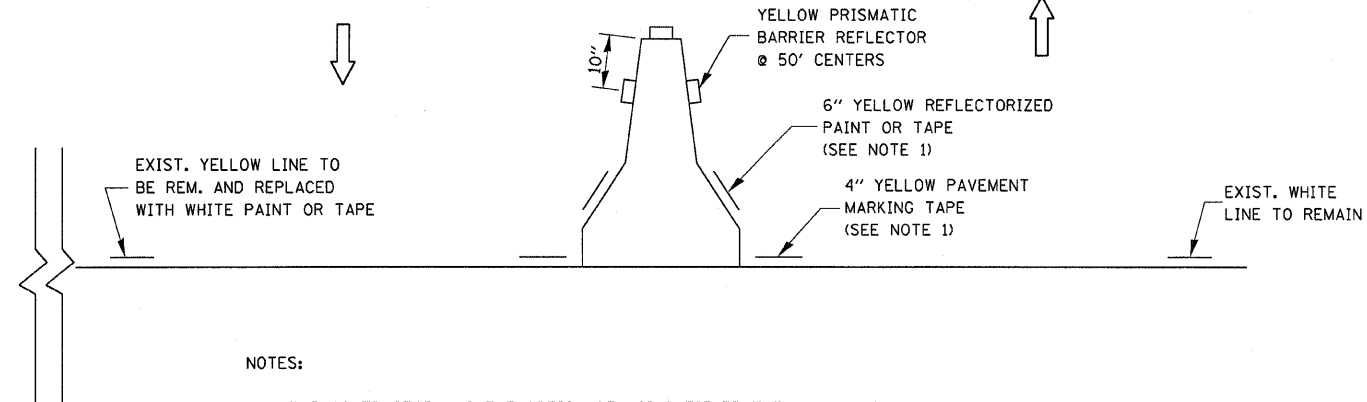
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUR & LAS	219	177
STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT		

*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



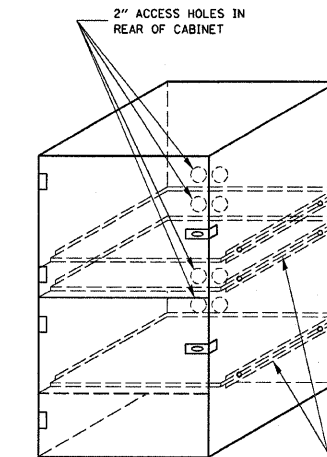
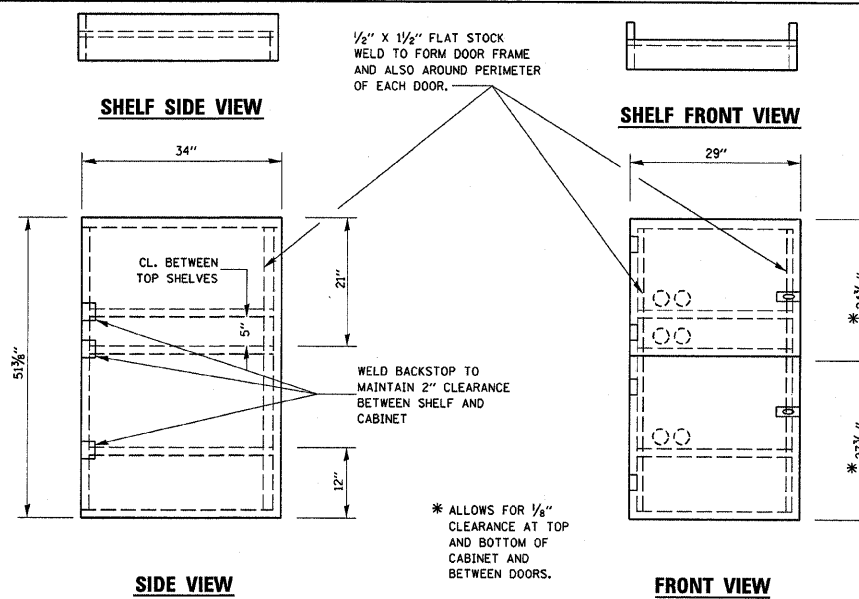
MAINLINE (EB AND WB PROJECT LIMITS) AND END OF RAMPS

RDWY.



NOTES:

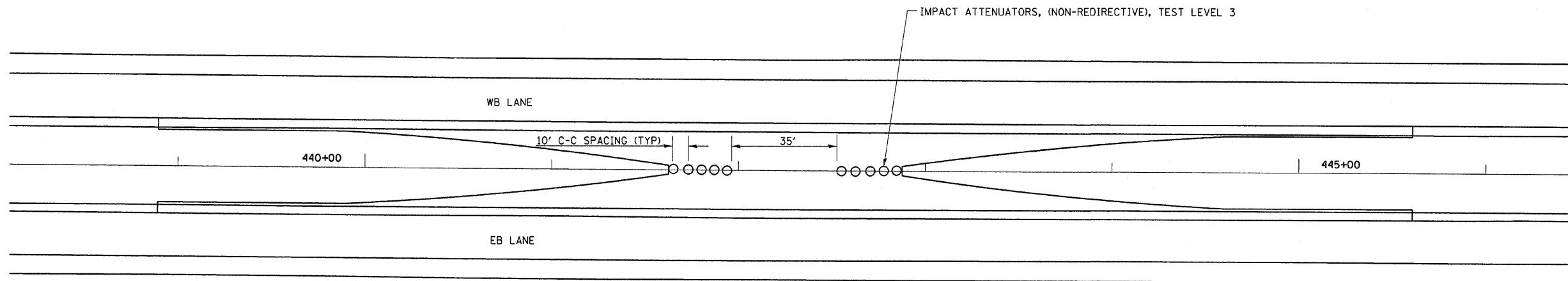
1. THE CONTRACTOR HAS THE OPTION OF USING EITHER THE LINE ON THE TEMPORARY CONCRETE BARRIER OR ON THE PAVEMENT.
2. THE COST OF THE REFLECTORS AND THE BARRIER/PAVEMENT MARKING LINE IS INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER.



NOTES:

1. USE 16 GAUGE STEEL FOR CABINET.
2. THE TOP SHELF SHALL SLIDE IN OR OUT WITH THE TOP DOOR OPEN.
3. ALL HINGES AND HASPS WILL BE WELDED TO THE CABINET.
4. ALL EDGES SHALL BE GROUND SMOOTH.
5. TWO (2" DIA.) ACCESS HOLES WILL BE REQUIRED FOR EACH SHELF.
6. CABINET SHALL BE PAINTED WITH TWO COATS OF FLAT PAINT.
7. 2 EACH MATCHING KEY PADLOCKS, WITH 3 KEYS PROVIDED, MASTER MODEL 3 T OR EQUIVALENT.
8. 4 EACH PLAIN STEEL, NON-REMOVABLE PIN, NO HOLE 4" x 4" SQUARE CORNER HINGES TO BE WELDED ON.
9. 2 EACH EXTRA HEAVY, PLAIN STEEL, FIXED STAPLE, NO HOLE, 7/4" HASPS TO BE WELDED ON.

LOCKABLE COMPUTER CABINET



MEDIAN CROSSOVER IMPACT ATTENUATORS

NOTE: IMPACT ATTENUATORS SHALL BE PLACED WHEN CROSSOVER CONSTRUCTION IS COMPLETE, AND SHALL BECOME THE PROPERTY OF THE STATE.

WESTERN MEDIAN CROSSOVER IS THE SAME AS THE ABOVE DETAIL. STA 342+00 TO 350+00

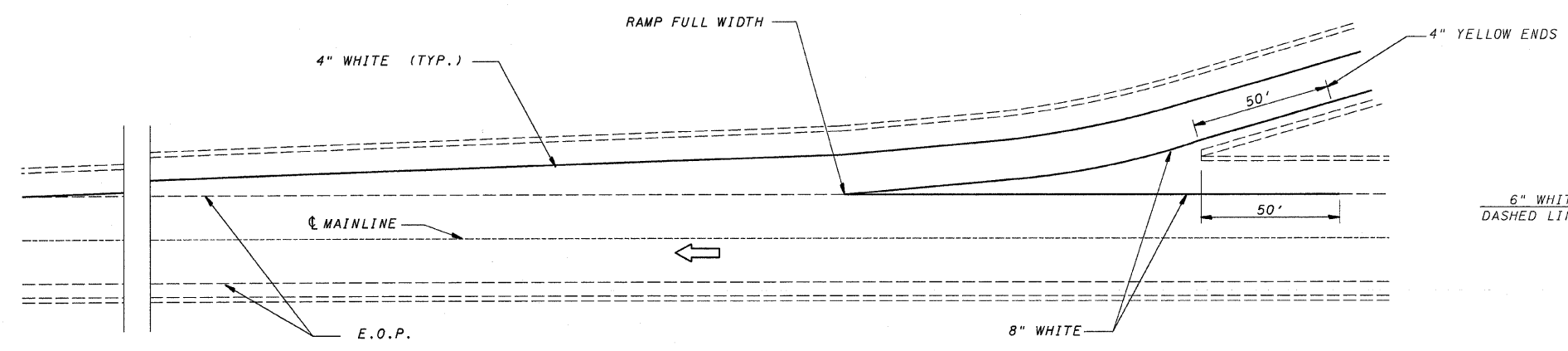
IMPACT ATTENUATORS TO BE PLACED AFTER STAGE II IS COMPLETE.

THIS WORK SHALL BE PAID FOR AS THE CONTRACT UNIT PRICES EACH AS IMPACT ATTENUATORS, (NON-REDIRECTIVE), TEST LEVEL 3

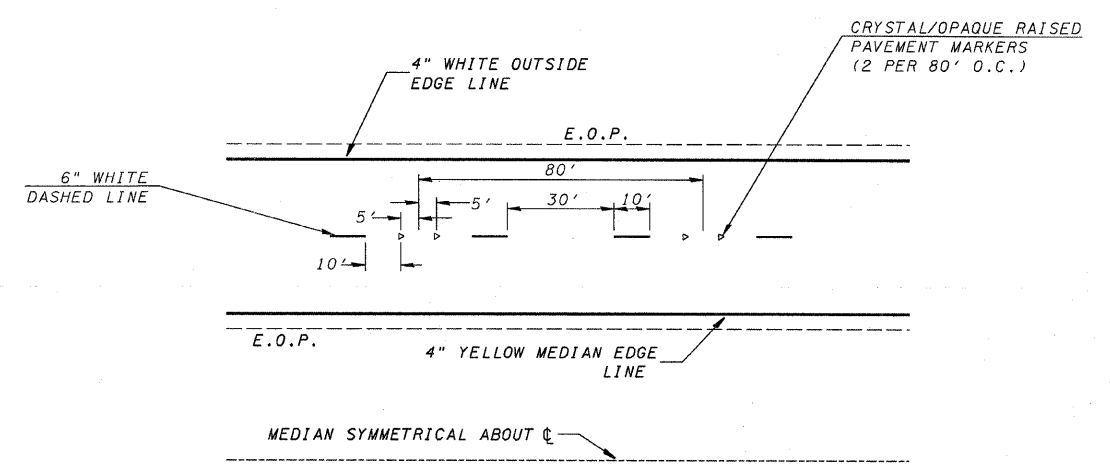
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 USER NAME = wensheko

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80		BUR & LAS	219	178
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT				

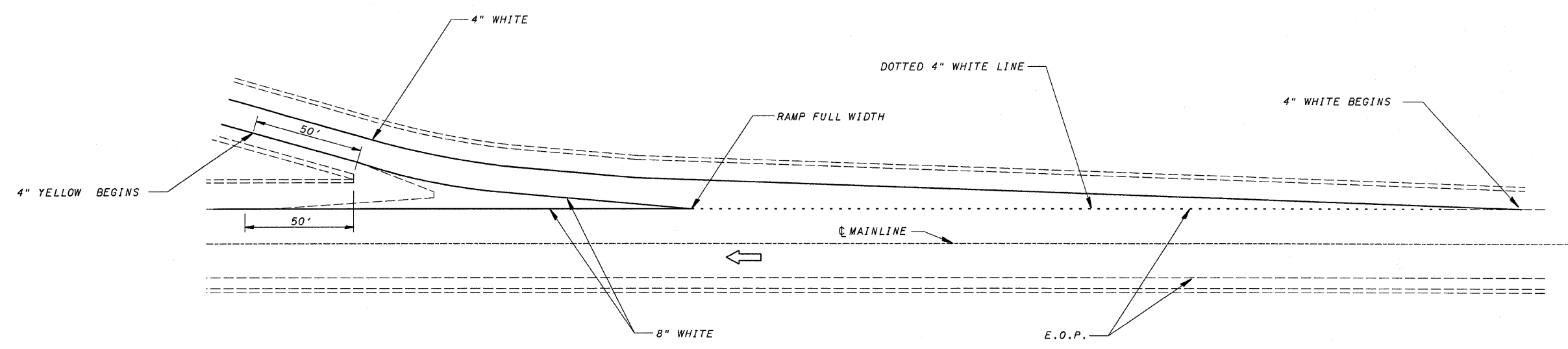
*(06-14 & 50-8)RS-1 (14B,B-1,VB,VB-1,VB-2,VB-3)BR



TYPICAL PAVEMENT MARKING FOR ENTRANCE RAMP TERMINALS



TYPICAL PAVEMENT MARKINGS



TYPICAL PAVEMENT MARKINGS FOR EXIT RAMP TERMINALS

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 USER NAME = wenzelko

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

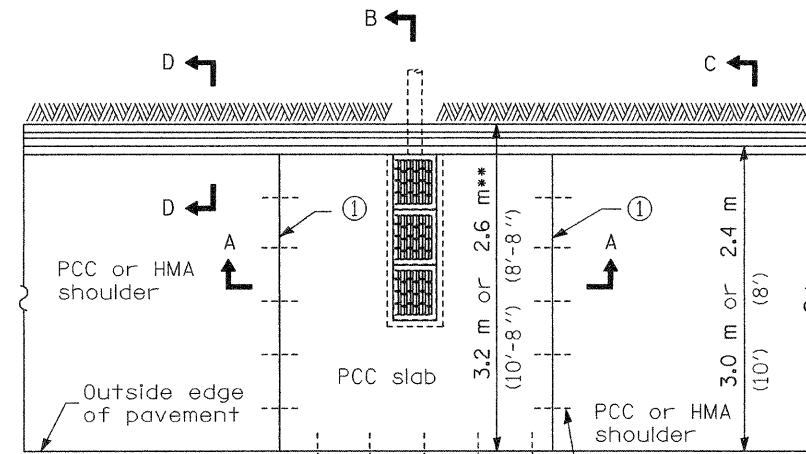
DETAILS

SCALE: VERT. _____
 HORIZ. _____

DATE _____

DRAWN BY _____
 CHECKED BY _____

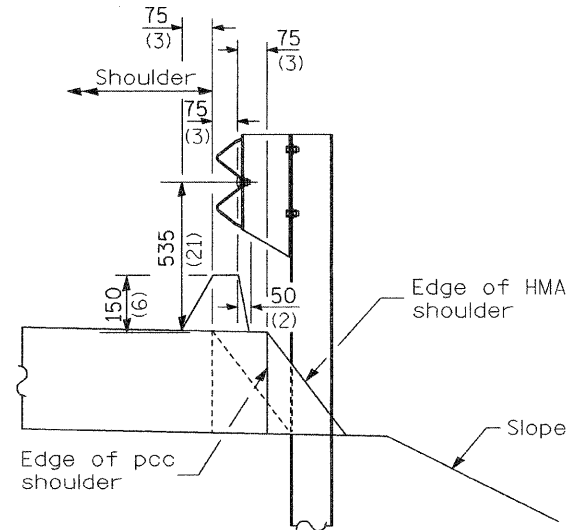
*(06-14 & 50-8)RS-1(HB,B-1,YB,B-1,YB-2,YB-3)BR CONTRACT NO. 66731



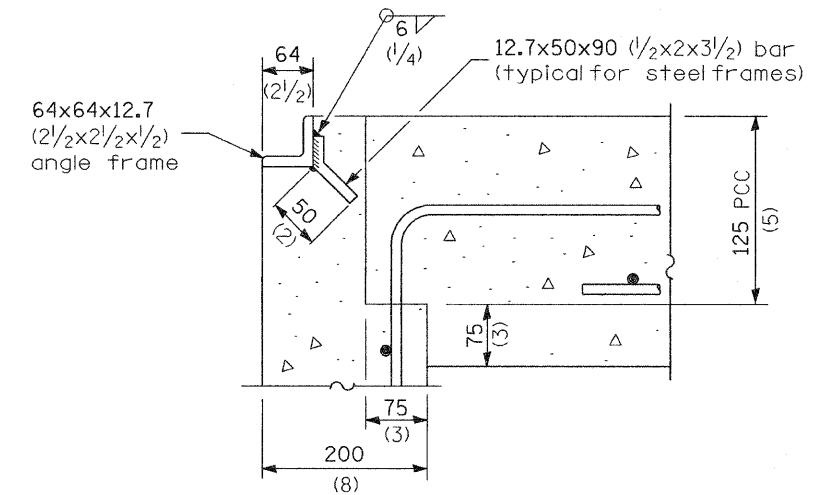
① Joints in prolongation with existing joints in pavements.
 No. 19 (No. 6) Tie bars or expansion anchor ties at 600 (24) cts.

PLAN

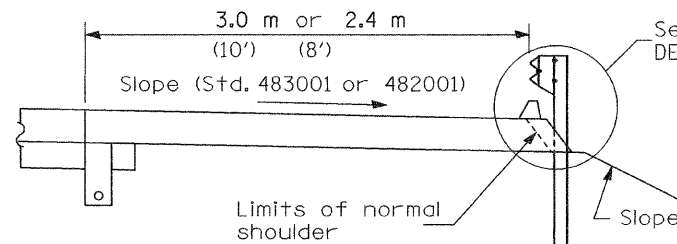
** When used adjacent to bridge approach slabs, width shall equal greater of bridge shoulder width or 4'-10".



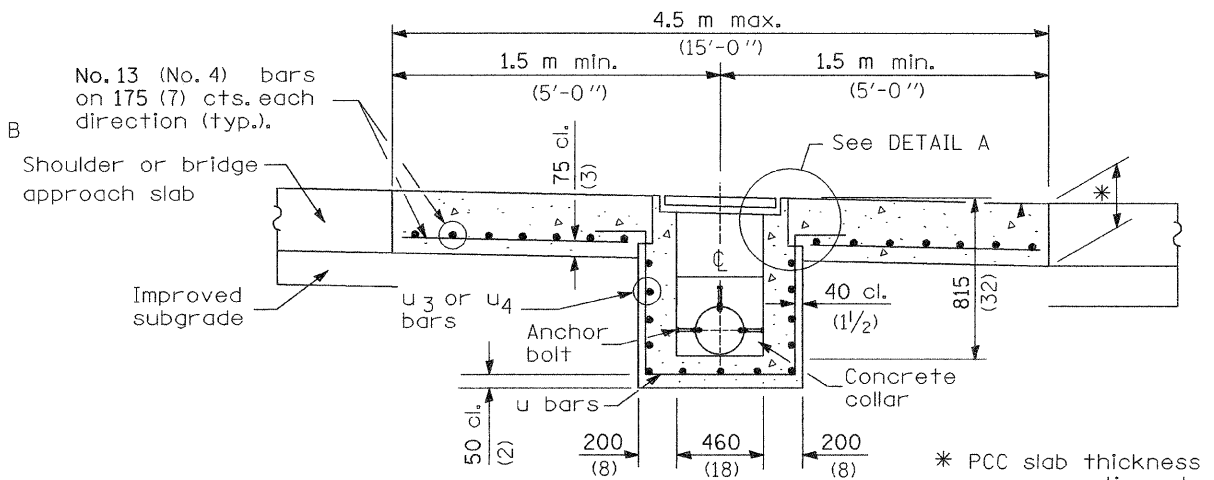
DETAIL B



DETAIL A

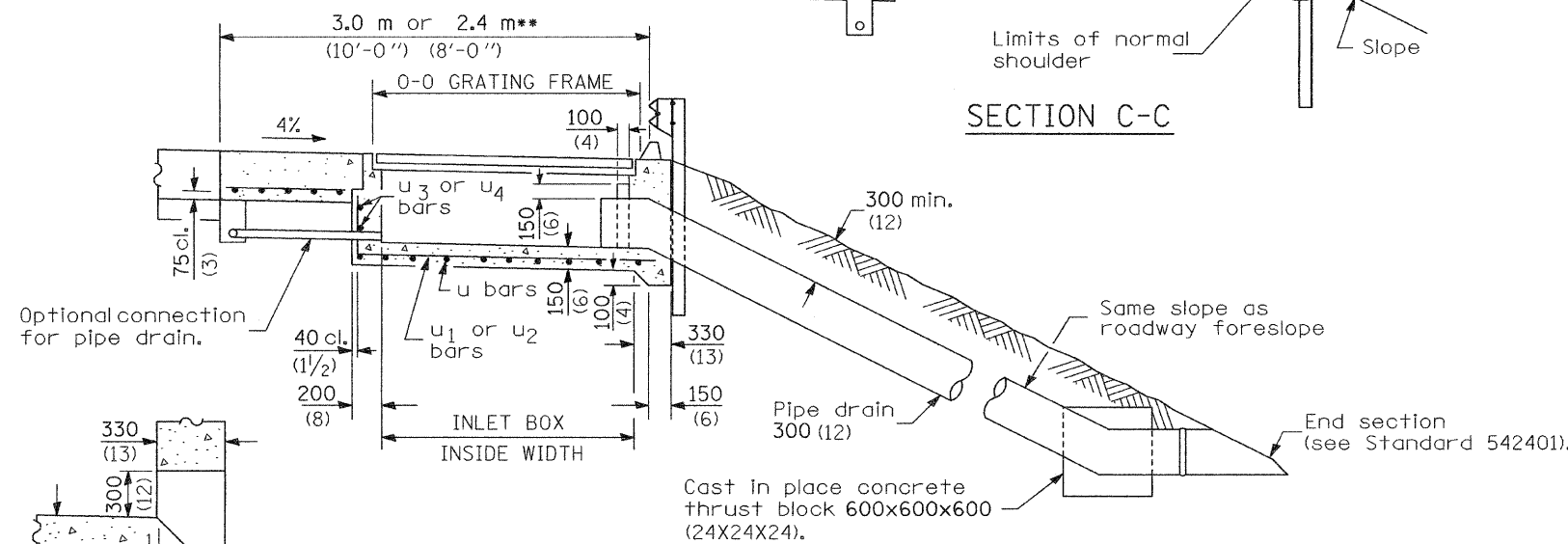


SECTION C-C



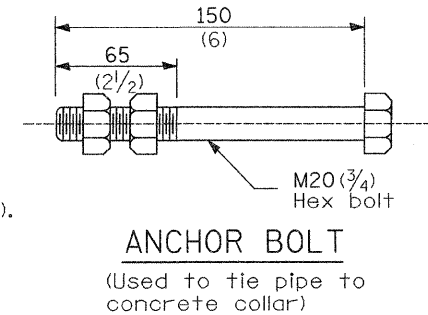
SEC. A-A

* PCC slab thickness same as adjacent shoulder.



SEC. B-B

BOX OUTLET WHEN PRECAST



ANCHOR BOLT

(Used to tie pipe to concrete collar)

GENERAL NOTES

See Standard 420001 for joint details not shown.

All exposed edges of the inlet, except the upper perimeter, shall be beveled 20 mm (3/4").

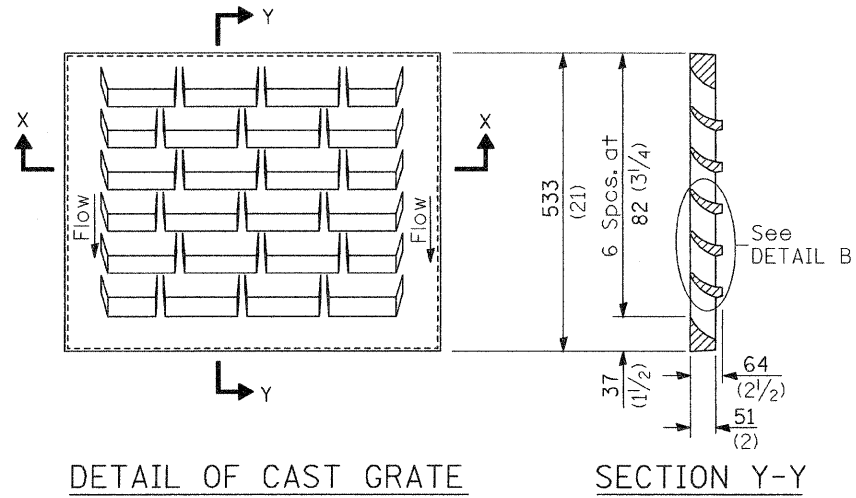
For placement of drainage elements on existing construction with existing rigid pavement, substitute expansion anchor ties for tie bars. For nonrigid pavements or monolithic construction of pcc slab and shoulder, omit tie bars.

All dimensions are in millimeters (inches) unless otherwise shown.

INLET TYPE	SHOULDER WIDTH	0-0 GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
Type E	1.2 m to 2.4 m (4' to 8')	1.325 m (4'-4")	1.195 m (3'-11")	460 (18)
Type F	3.0 m (10')	1.960 m (6'-5")	1.830 m (6'-0")	460 (18)

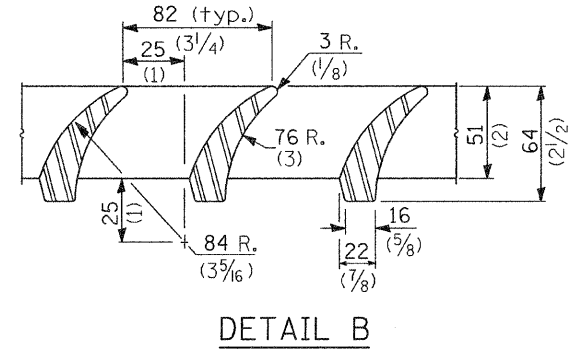
SHOULDER INLET WITH CURB

(Sheet 1 of 2)

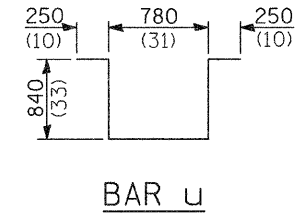


DETAIL OF CAST GRATE

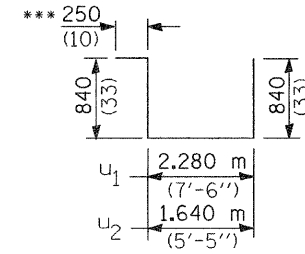
Type E requires 2 grates
 Type F requires 3 grates



DETAIL B

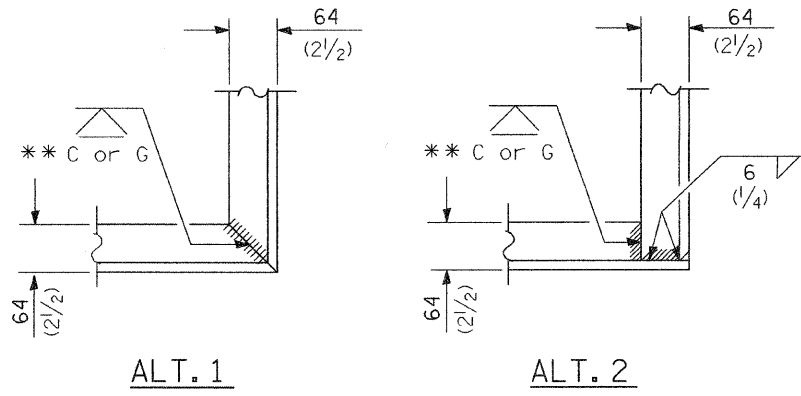


BAR U



BARS U₁, U₂

***Cut to fit in field as necessary.

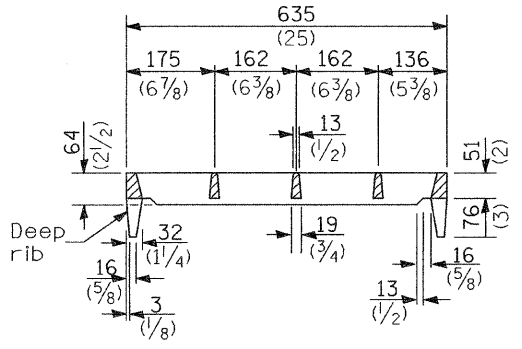


ALT. 1

ALT. 2

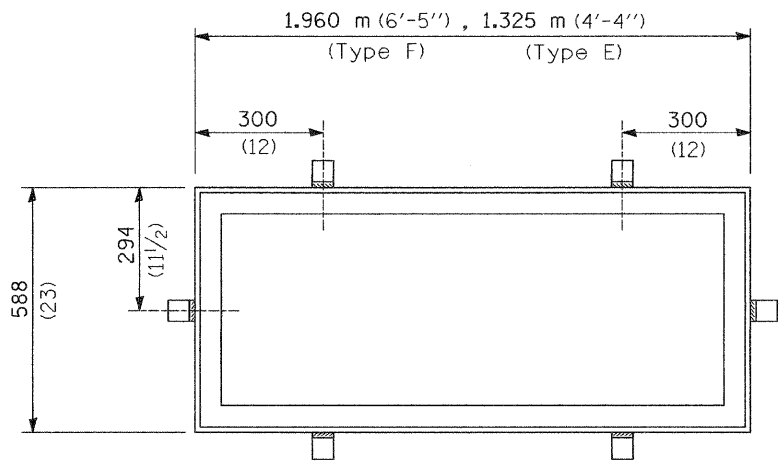
TYPICAL CORNER of STEEL GRATING FRAME

** Cut or Grind flush



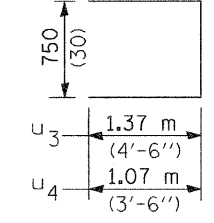
SECTION X-X

(Deep rib shall be omitted for end(s) resting on frame perimeter)



DETAIL OF STEEL FRAME

Cast frame to have same basic dimensions.



BARS U₃, U₄

INLET BOX

REQUIRED MATERIAL

TYPE F			
Bar	Qty.	Size	Length
u	8	No. 13 (No. 4)	2.96 m (9'-9")
u ₁	3	No. 13 (No. 4)	4.21 m (13'-10")
u ₃	6	No. 13 (No. 4)	3.49 m (11'-6")
Concrete	m ³ (cu. yds.)		1.3 (1.7)
Reinf. bars	kg (lbs.)		57.2 (126)
Grating	m ² (sq. ft.)		1.02 (10.9)
TYPE E			
Bar	Qty.	Size	Length
u	6	No. 13 (No. 4)	2.96 m (9'-9")
u ₂	3	No. 13 (No. 4)	3.57 m (11'-9")
u ₄	6	No. 13 (No. 4)	2.89 m (9'-6")
Concrete	m ³ (cu. yds.)		1.0 (1.3)
Reinf. bars	kg (lbs.)		45.8 (101)
Grating	m ² (sq. ft.)		0.68 (7.3)

All dimensions are in millimeters (inches) unless otherwise shown.

SHOULDER INLET WITH CURB

(Sheet 2 of 2)

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	BUREAU	219	179
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. _____		ILLINOIS FED. AID PROJECT		

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

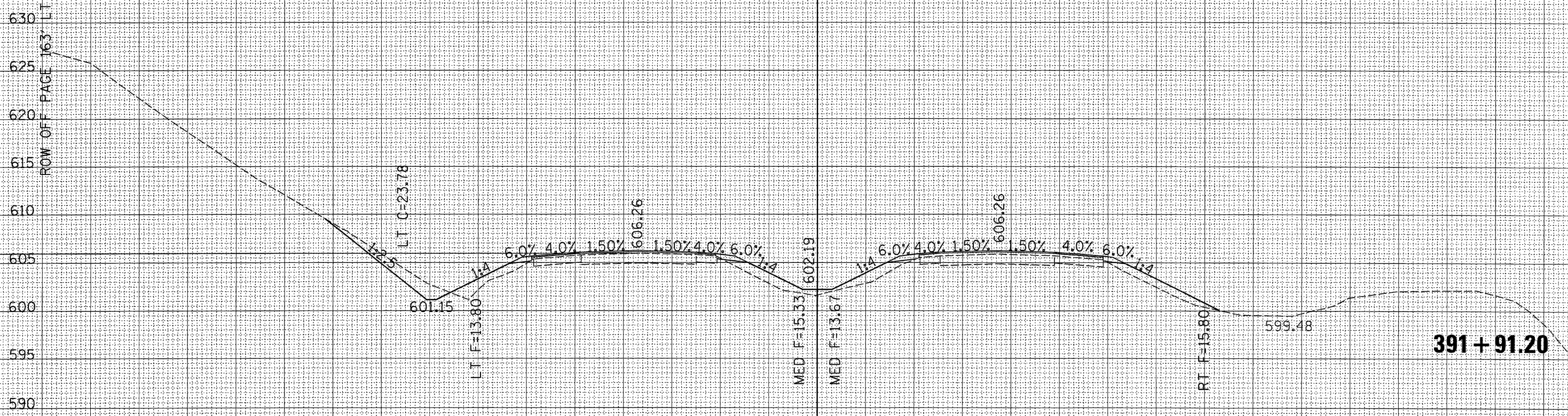
(BEGIN VERTICLE CORRECTION)

**NOTE:
SLOPES (TYP)
THROUGHOUT PROJECT
UNLESS SPECIFIED**

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

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

FILE NAME : *FILES
LEVELS : *LEVELS
PLOT SCALE : *PLOTS/SALES
PLOT DATE : Aug 26, 2008 - 07:24:38 AM
OPERATOR : wntelko



WEST BOUND LANES

EAST BOUND LANES

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140

630
625
620
615
610
605
600
595
590

ROW OFF PAGE 163 LT

ROW OFF PAGE 198.34 RT

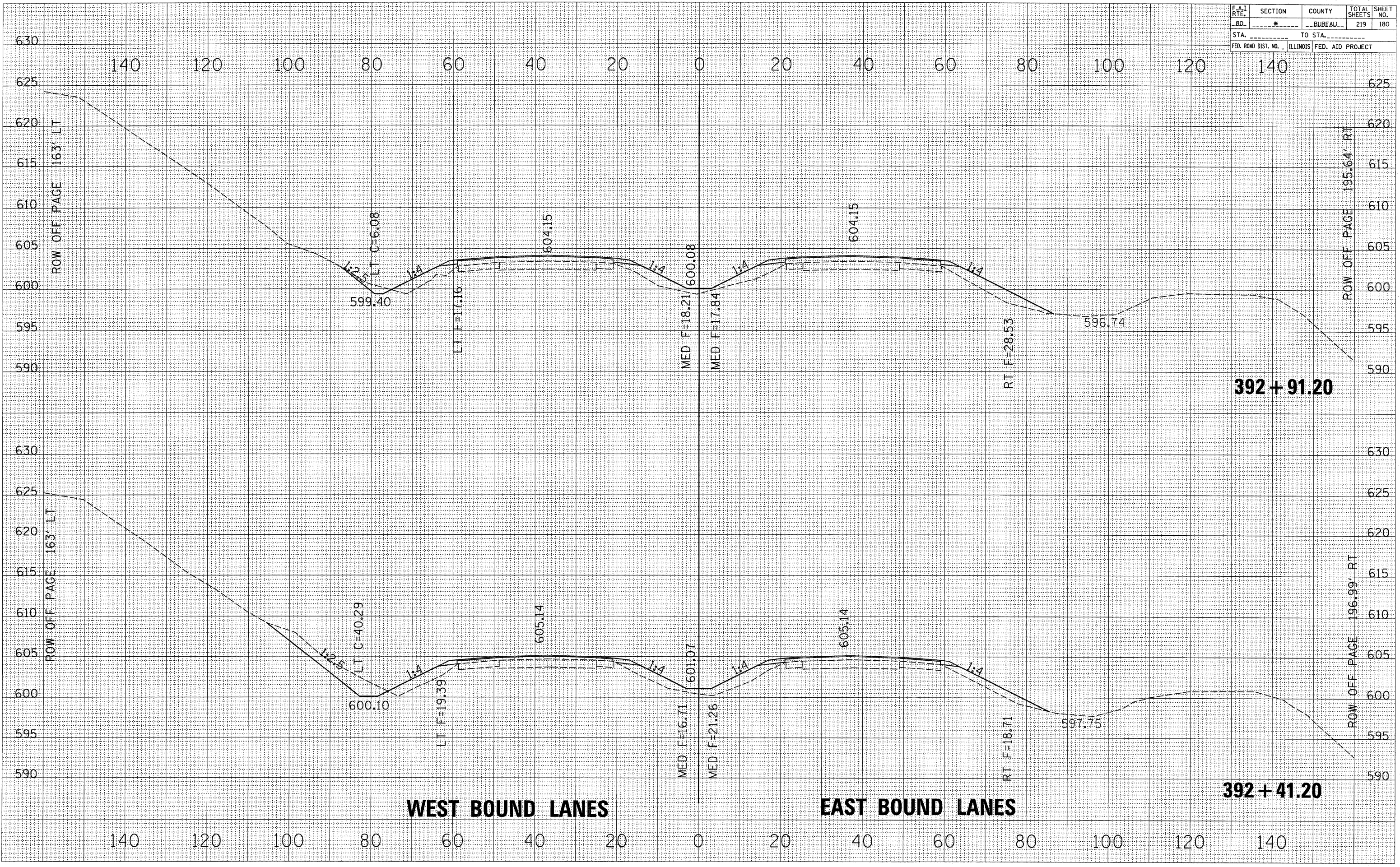
BY	DATE

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

BY	DATE

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

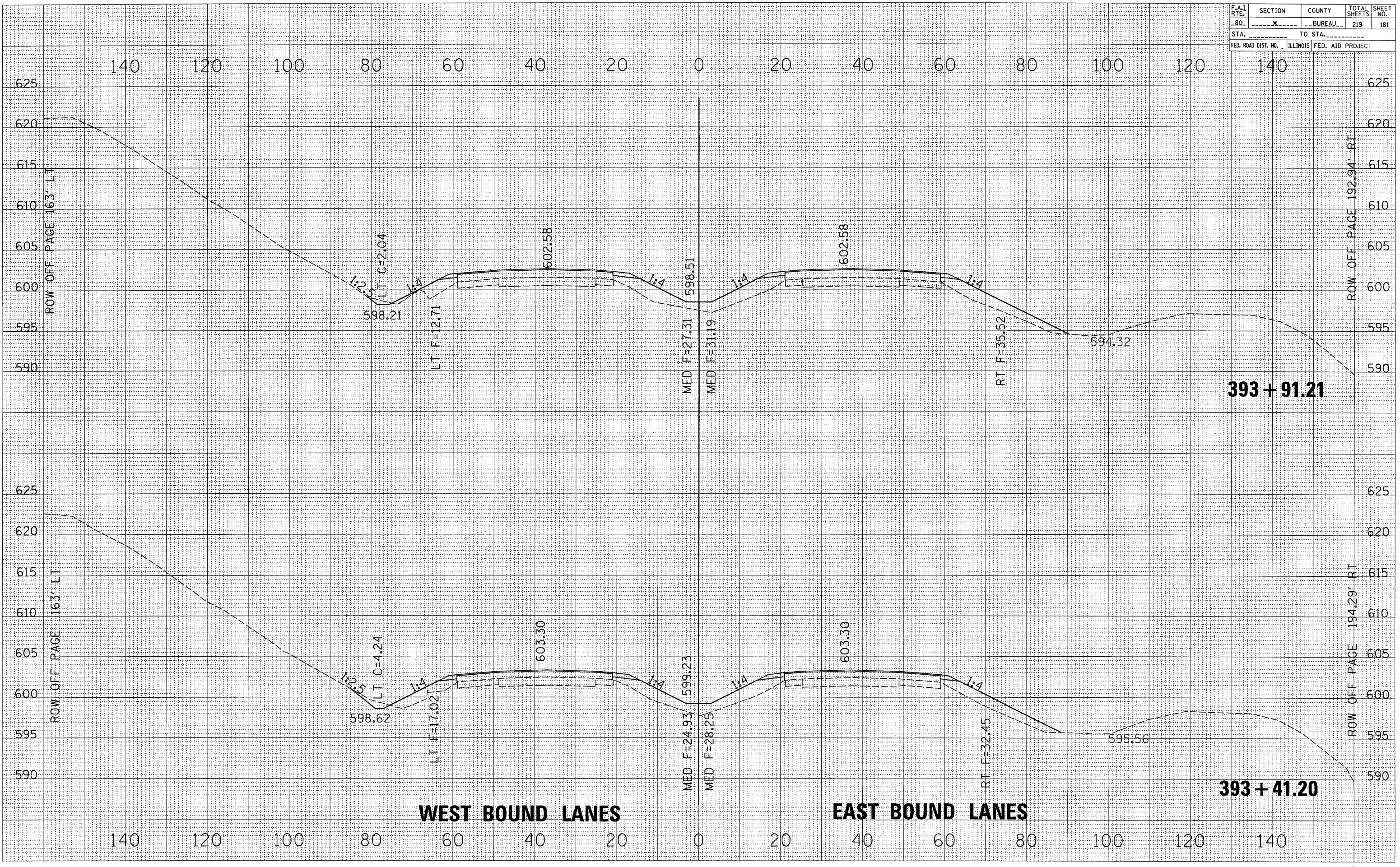
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 OPERATOR = *****



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

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

FILE NAME * CELLS
 LEVELS * LEVELS
 PLOT SCALE * PLOTS/SCALE*
 PLOT DATE * Aug 27, 2008 * 02:38:49 PM
 OPERATOR * sennelco



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	---	---	219	183
STA. _____ TO STA. _____		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

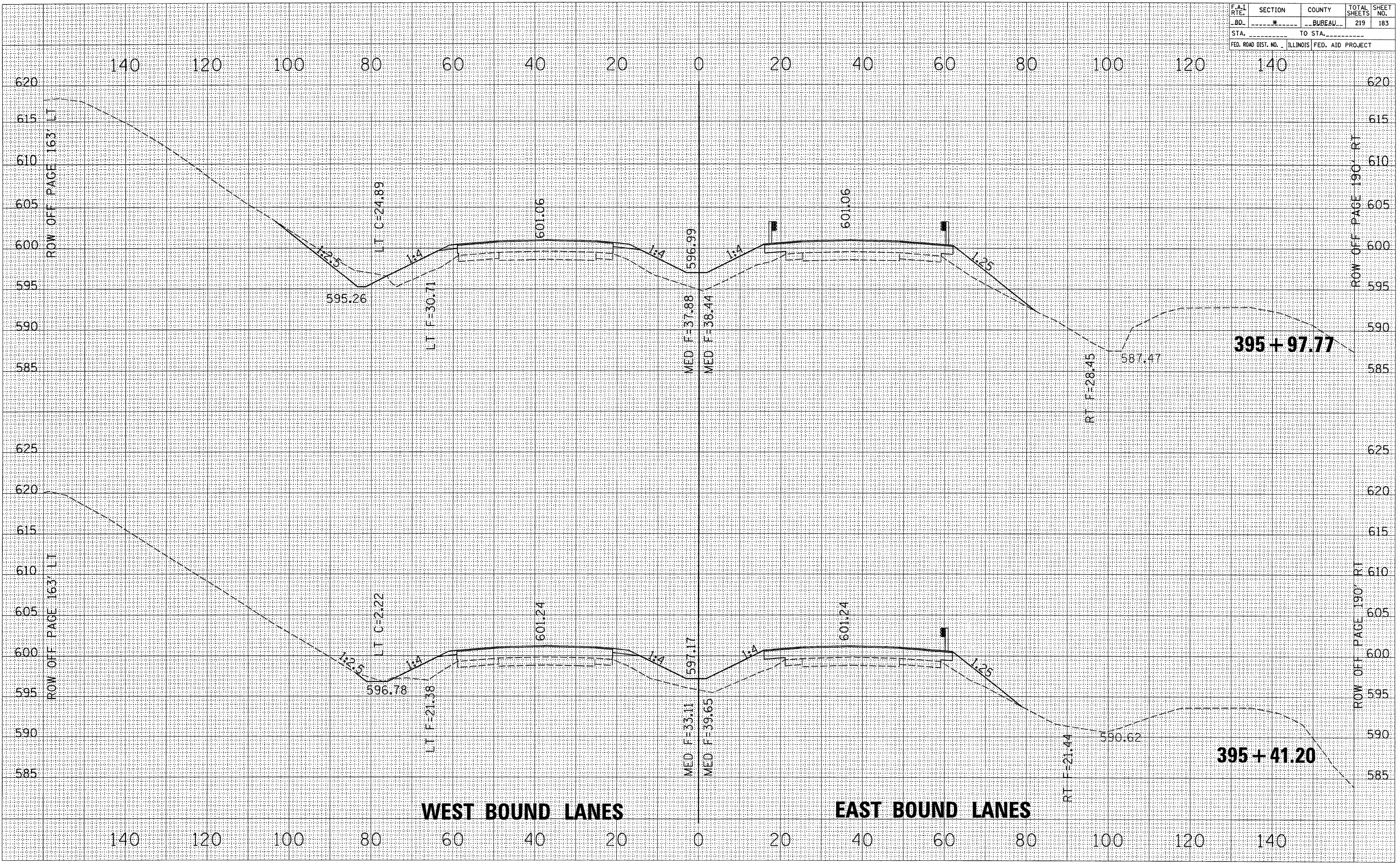
BY	DATE

FINAL SURVEY	SURVEYED	PLOTTED	IN SCALE	AREA CHECKED

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	IN SCALE	AREA CHECKED

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PLOT DATE = Aug 27, 2008
OPERATOR = venszko

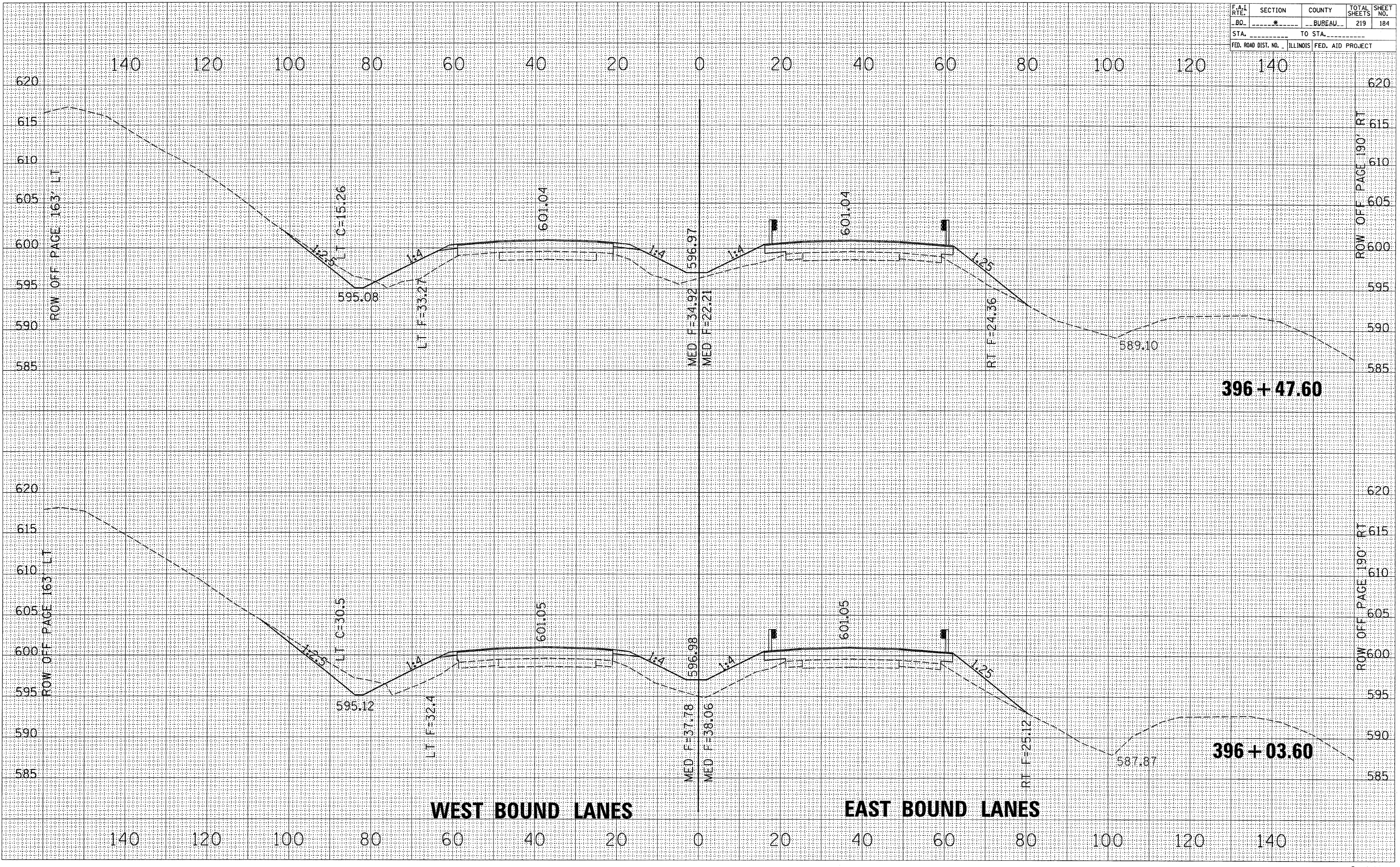


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...	219	184
STA. ... TO STA. ...		ILLINOIS FED. AID PROJECT		

BY	DATE

BY	DATE

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 PLOT DATE = Aug 27, 2008
 OPERATOR = verselko

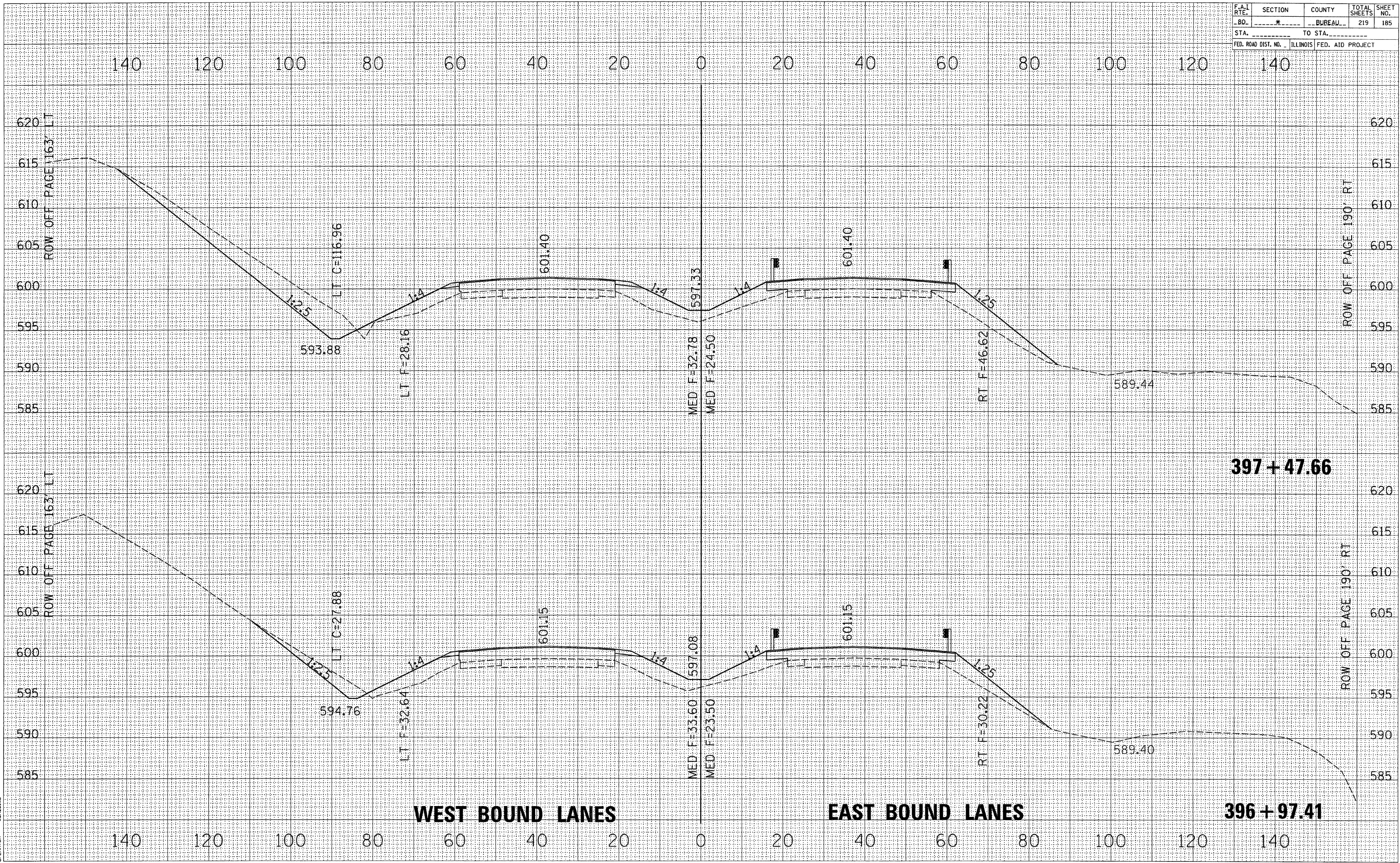


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
...	219	185
STA. ... TO STA. ...		BUREAU		
FED. ROAD DIST. NO. ...		ILLINOIS FED. AID PROJECT		

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

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

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 PLOT SCALE = #PLOTS/SCALE#
 PLOT DATE = Aug 27, 2008
 OPERATOR = venzelko



BY _____ DATE _____

FINAL SURVEY _____

SURVEYED _____

PLOTTED _____

NOTE BOOK _____

AREAS CHECKED _____

NO. _____

BY _____ DATE _____

ORIGINAL SURVEY _____

SURVEYED _____

PLOTTED _____

NOTE BOOK _____

AREAS CHECKED _____

NO. _____

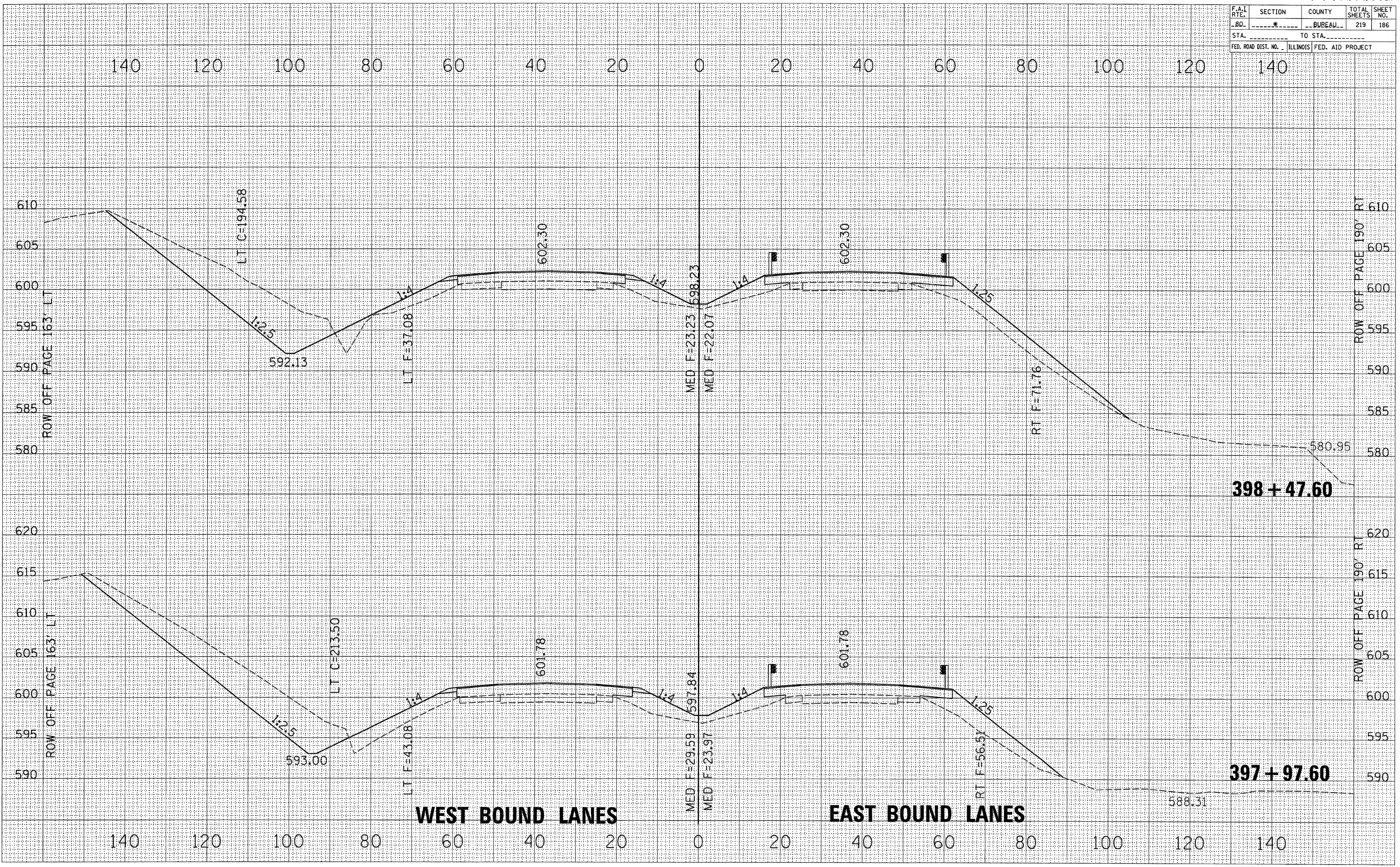
FILE NAME * CELLS

LEVELS * LEVELS

PLOT SCALE * PLOTS/SCALE

PLOT DATE * Aug 27, 2008

OPERATOR * gennetico



WEST BOUND LANES

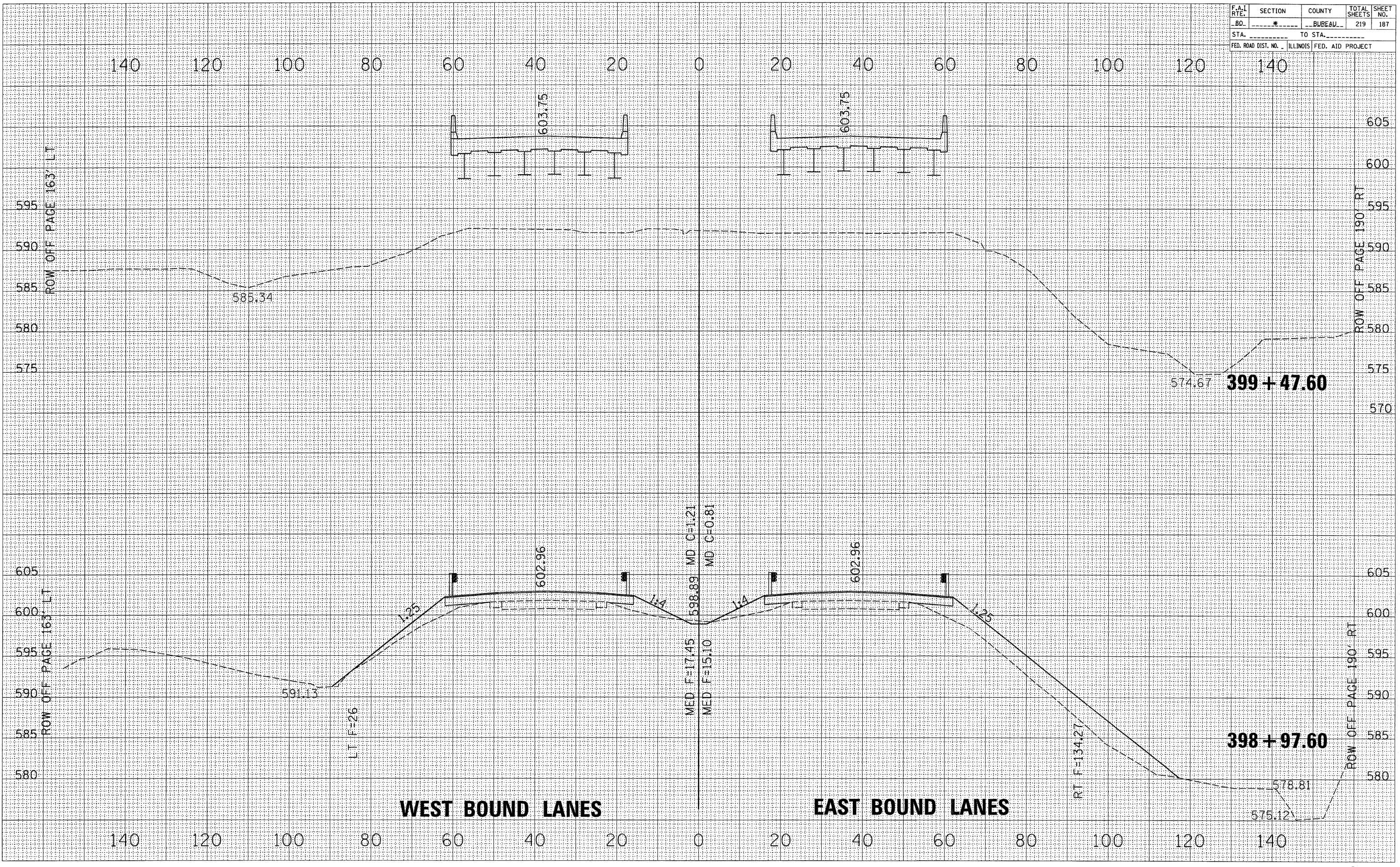
EAST BOUND LANES

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BO. *	BUREAU		219	187
STA. _____ TO STA. _____		ILLINOIS FED. AID PROJECT		

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

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

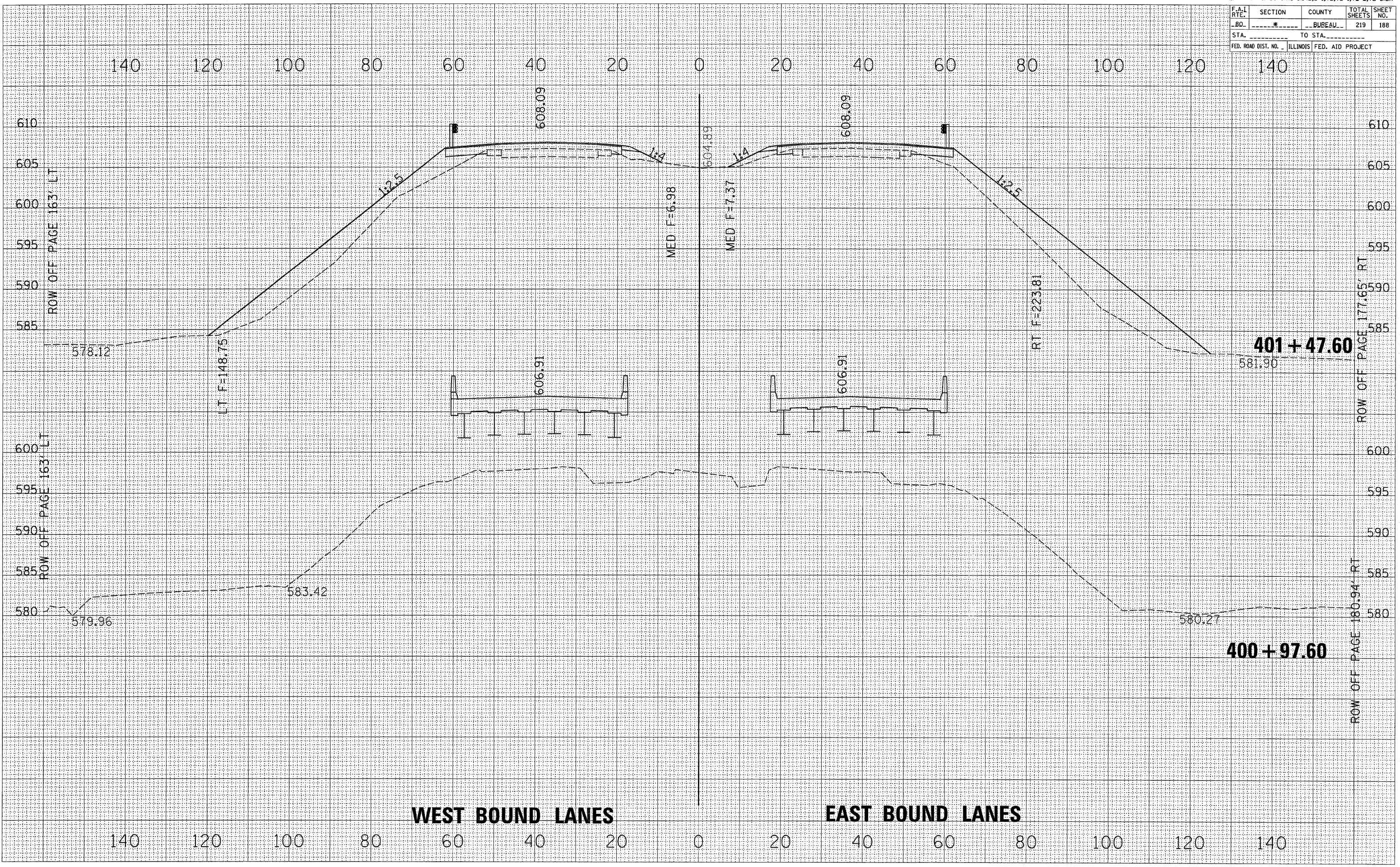
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 PLOT DATE = Aug 27, 2008 - 02:31:53 PM
 OPERATOR = sennelko



BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

BY	DATE
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

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 LEVELS: * LEVELS
 PLOT SCALE: * PLOTS/SCALE*
 PLOT DATE: * Aug 27, 2008 *
 OPERATOR: * sennelko

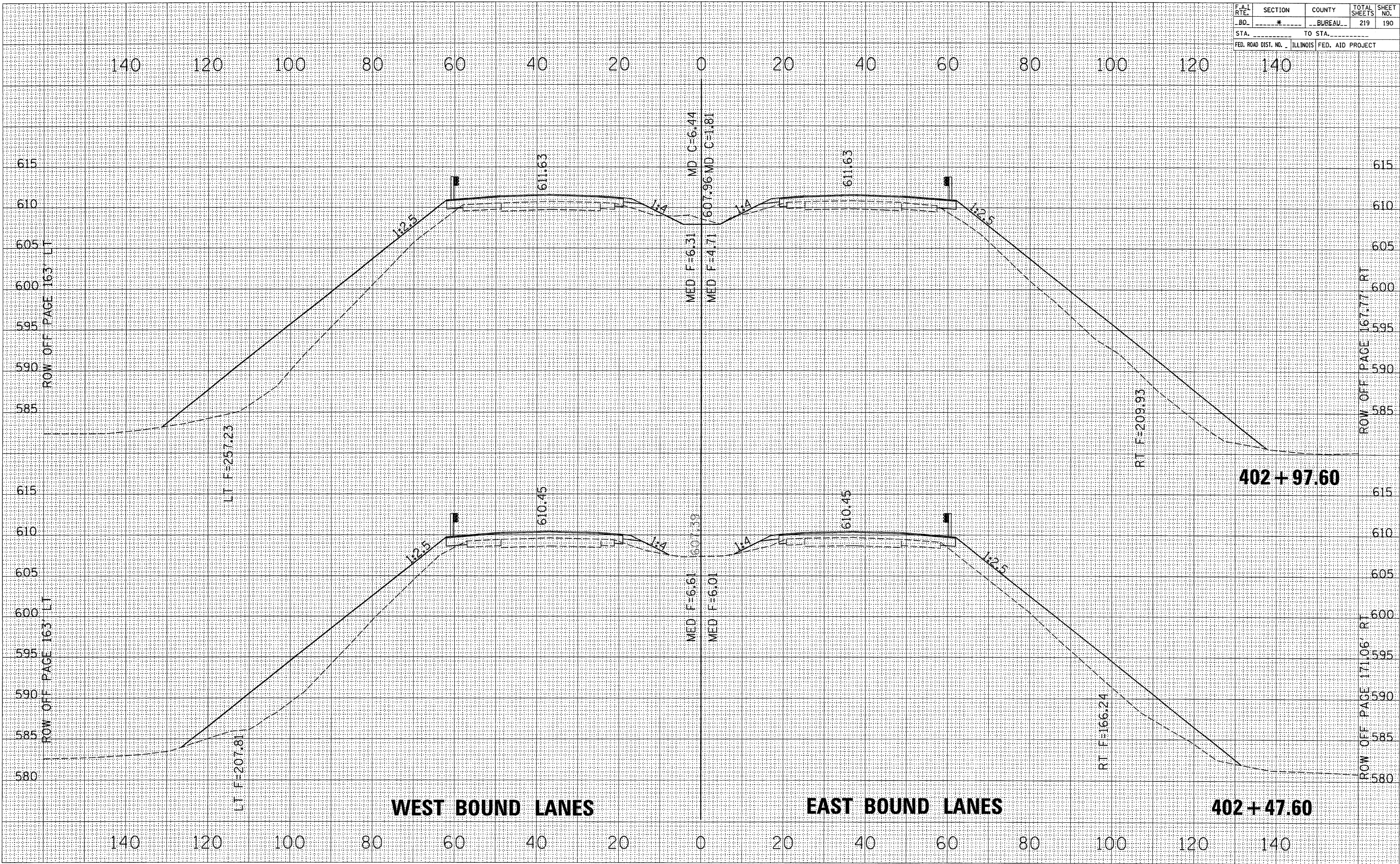


F.A. L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	---	---	219	190
STA. -----		TO STA. -----		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

BY	DATE

BY	DATE

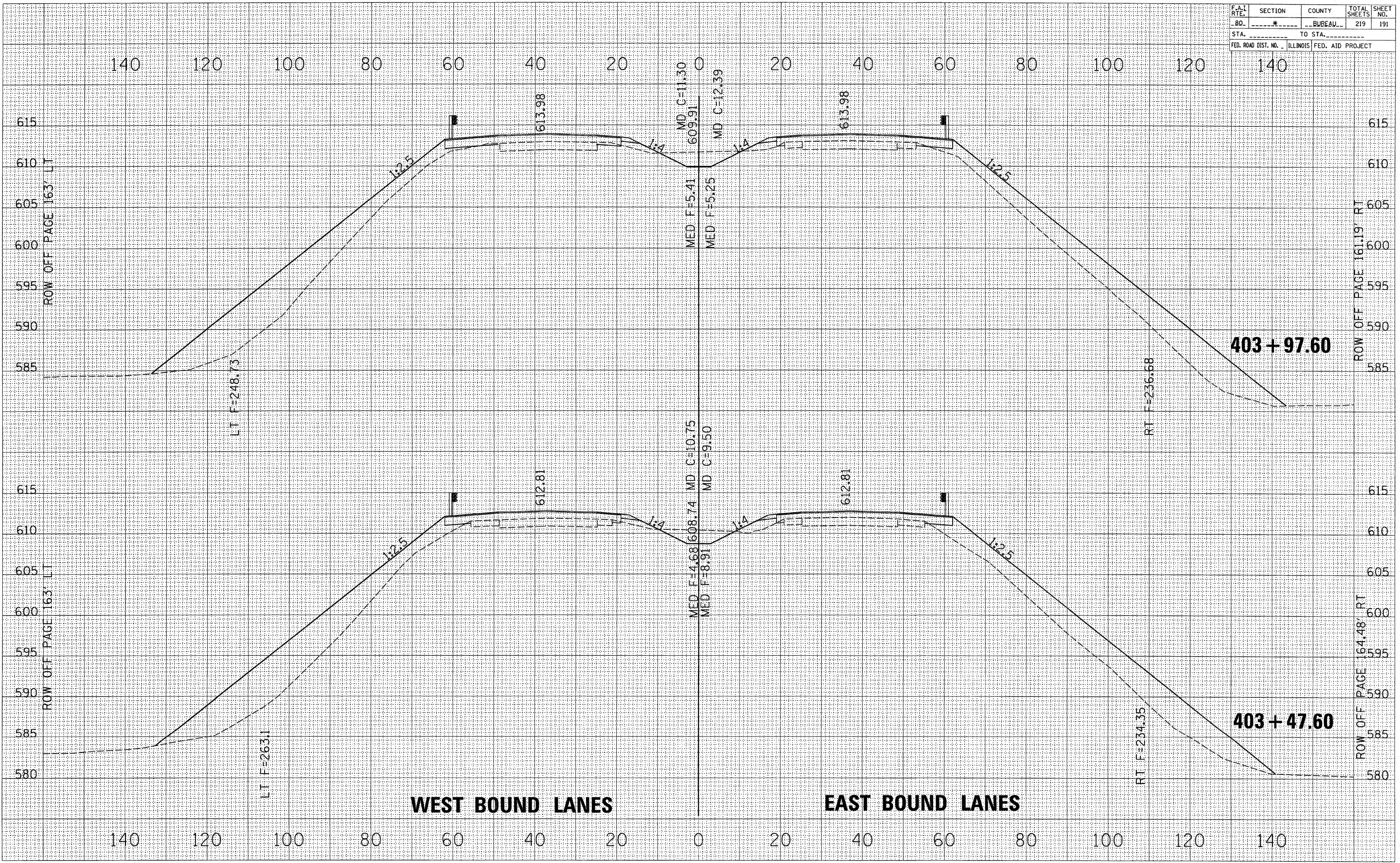
FILE NAME = #FILES
 LEVELS = #LEVELS
 PLOT SCALE = #PLOTSCALE#
 PLOT DATE = Aug 27, 2008
 OPERATOR = verselko



BY	DATE

BY	DATE

FILE NAME = #FILES
 LEVELS = #LEVELS
 PLOT SCALE = #PLOTSCALE*
 PLOT DATE = Aug 27, 2008
 OPERATOR = #OPERATOR

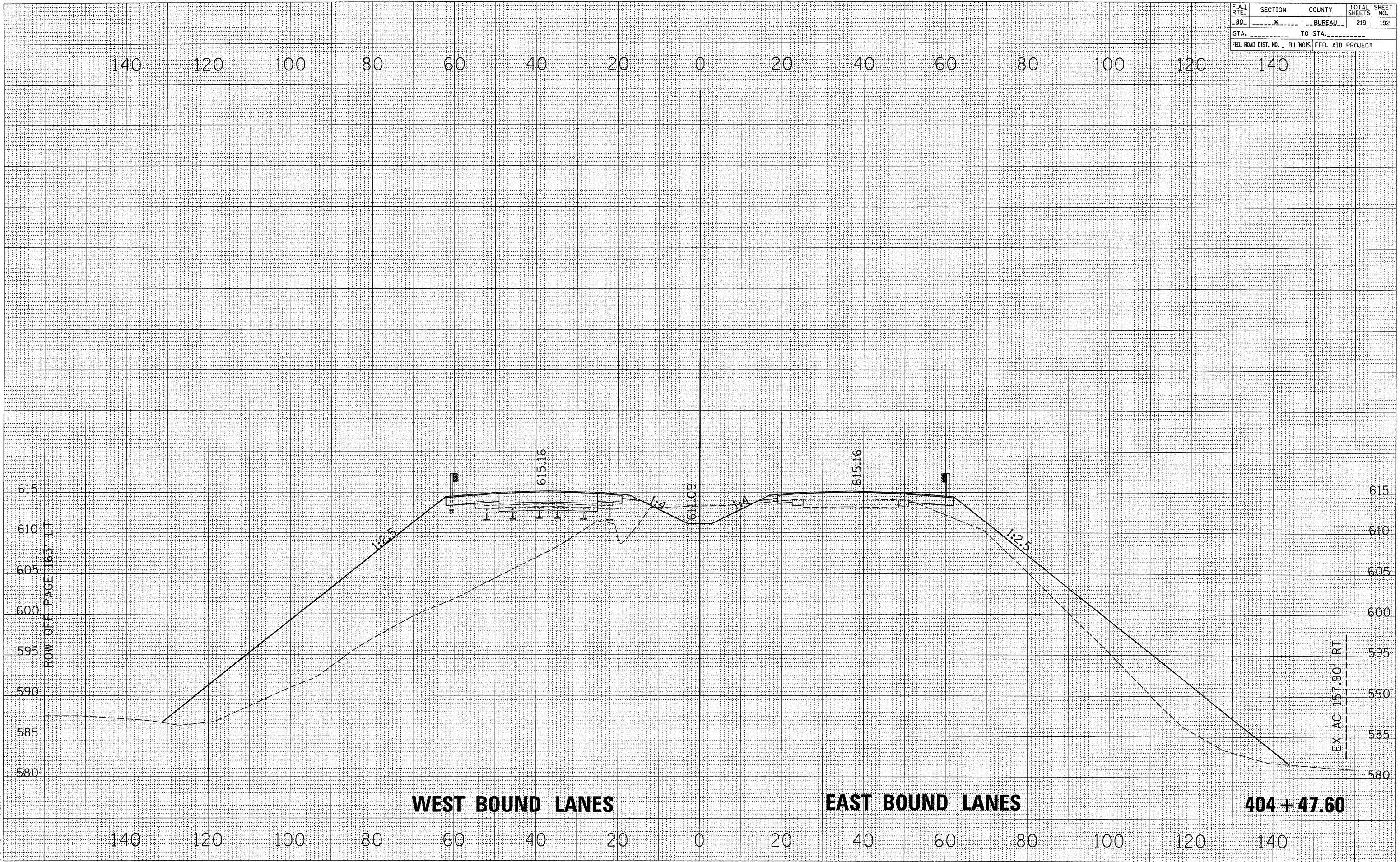


F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUREAU	219	192
STA. _____ TO STA. _____		FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT		

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

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

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 PLOT DATE = Aug 27, 2008 - 02:33:06 PM
 OPERATOR = wenzelko

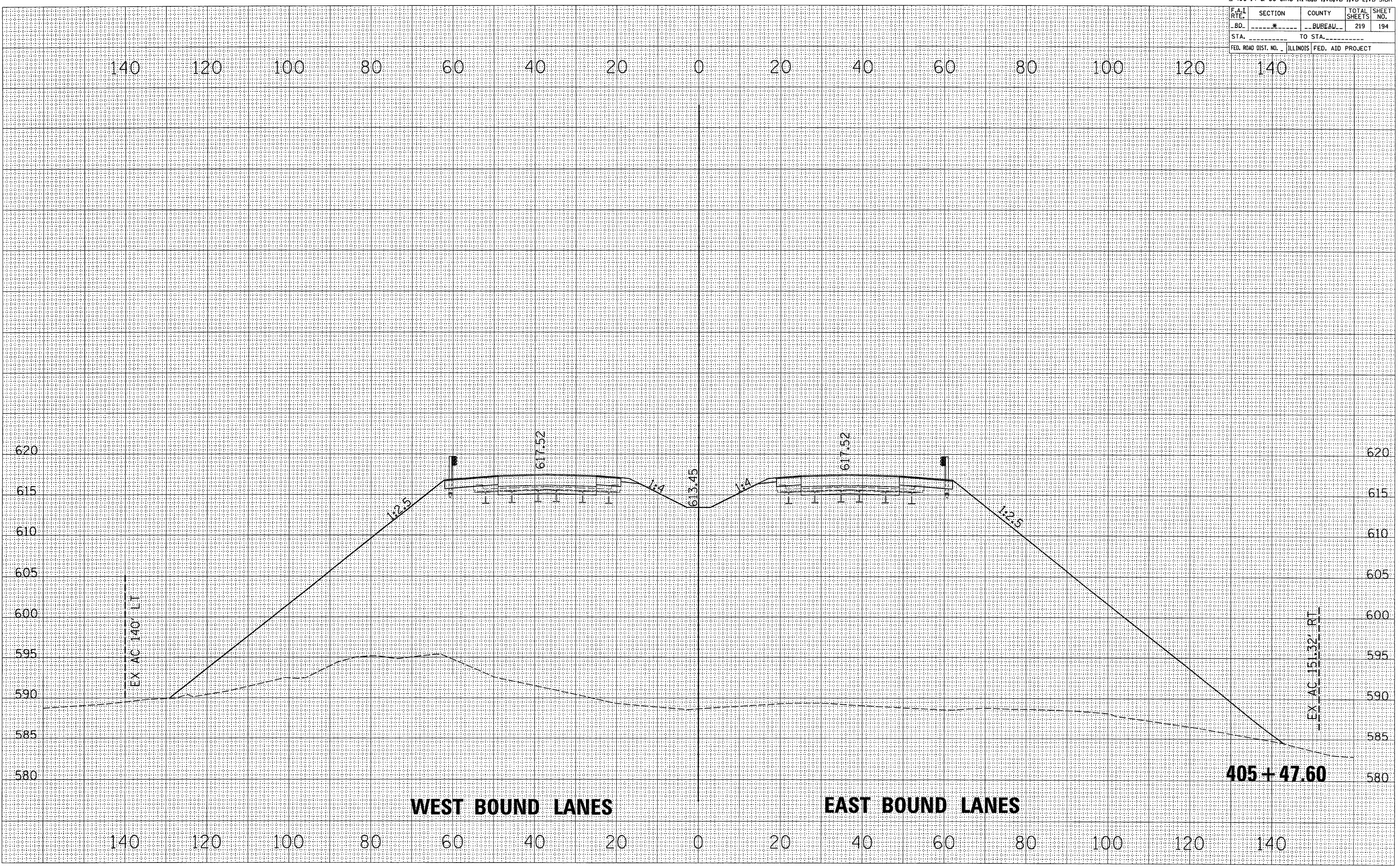


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	*	BUREAU	219	194
STA. ---		TO STA. ---		
FED. ROAD DIST. NO. ---		ILLINOIS FED. AID PROJECT		

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

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

FILE NAME : #ELLS
 LEVELS : #LEVELS
 PLOT SCALE : #PLOTS/SALES
 PLOT DATE : Aug 27, 2009 - 02:33:29 PM
 OPERATOR : weneko

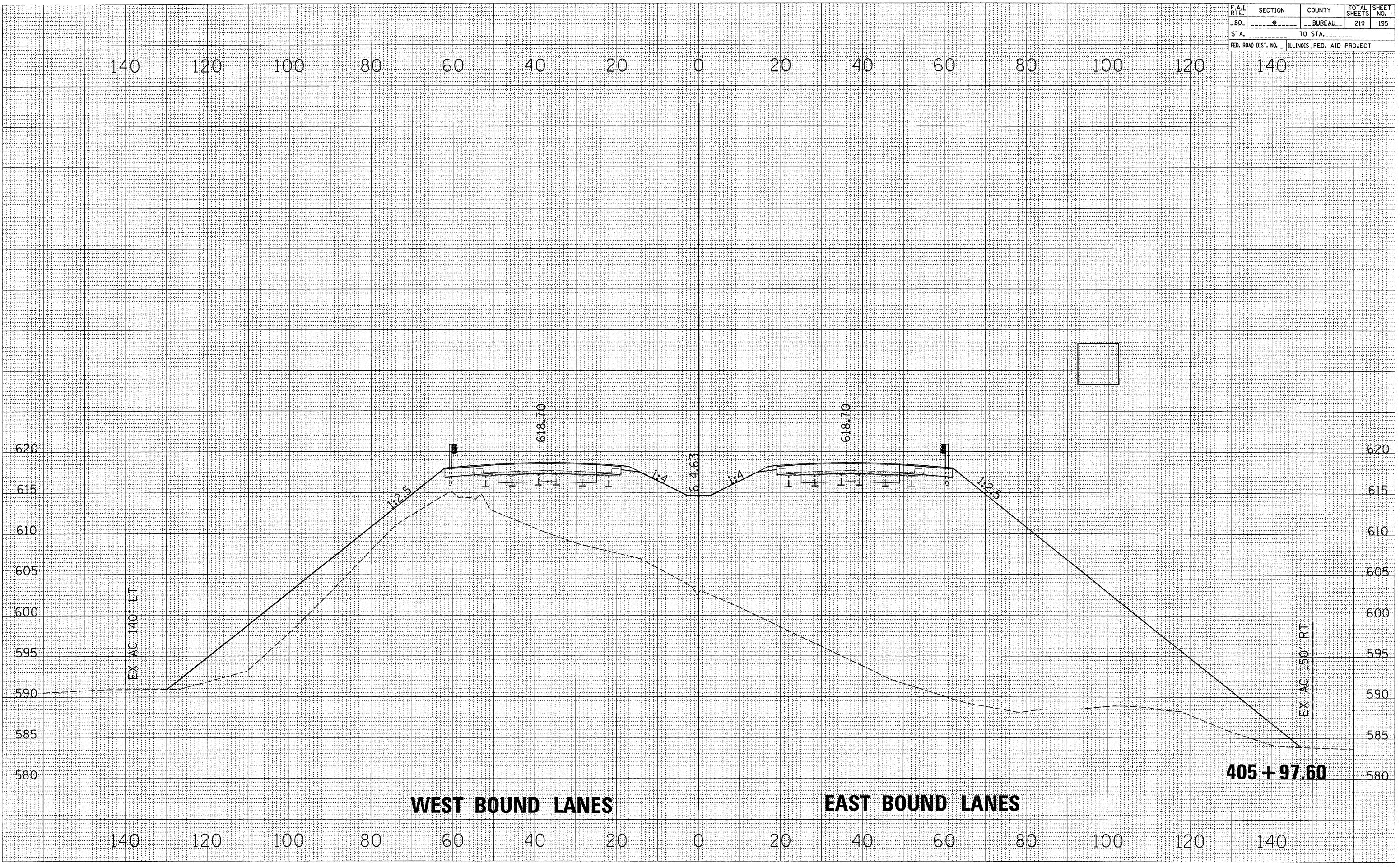


F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	BUREAU	219	195
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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

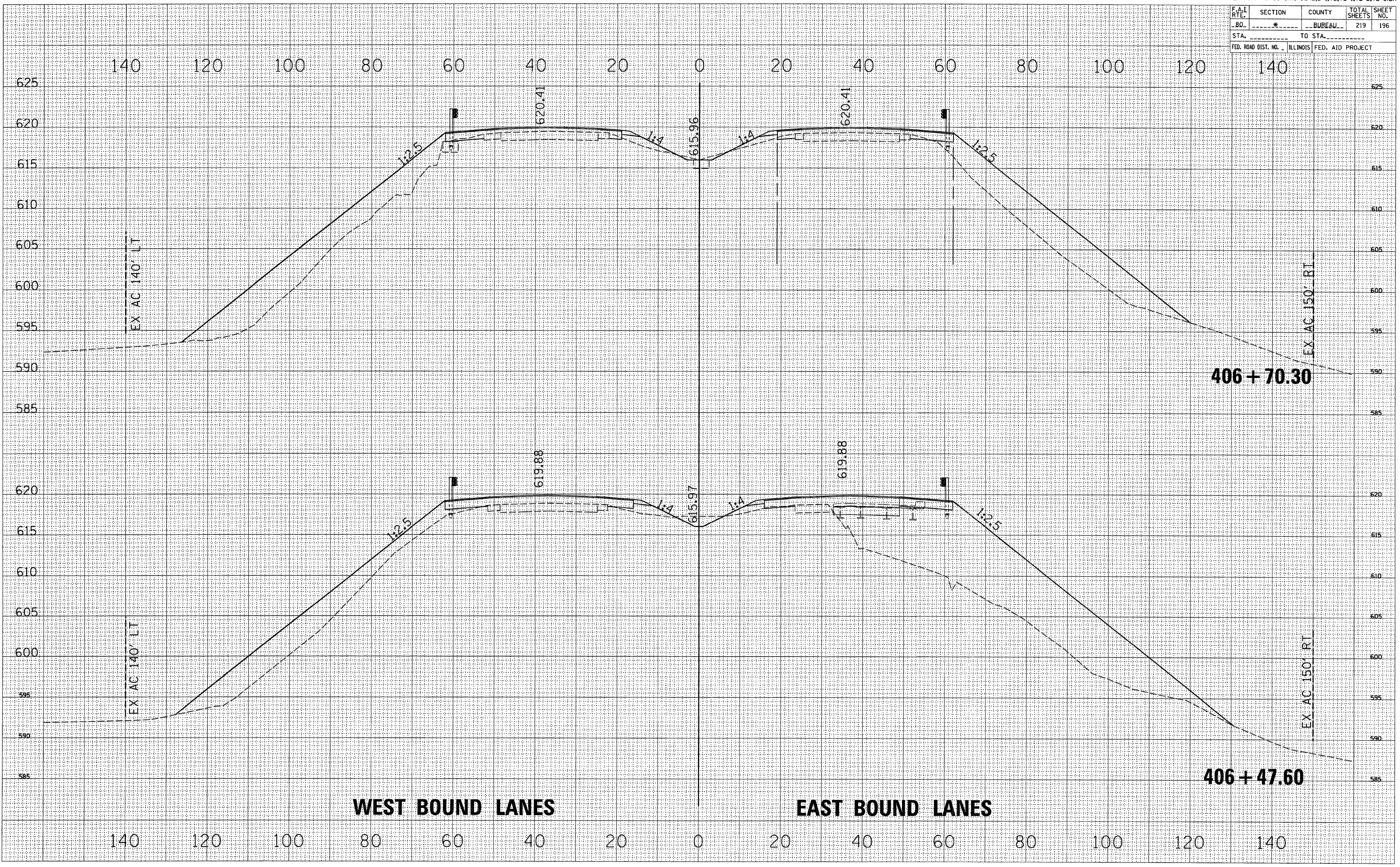
FILE NAME
LEVELS
PLOT SCALE
PLOT DATE
OPERATOR



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

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

FILE NAME * 0614
 LEVELS * 0614
 PLOT SCALE * PLOTSCALE*
 PLOT DATE * Aug 27, 2008 * 02:34:18 PM
 OPERATOR * gennelco



WEST BOUND LANES

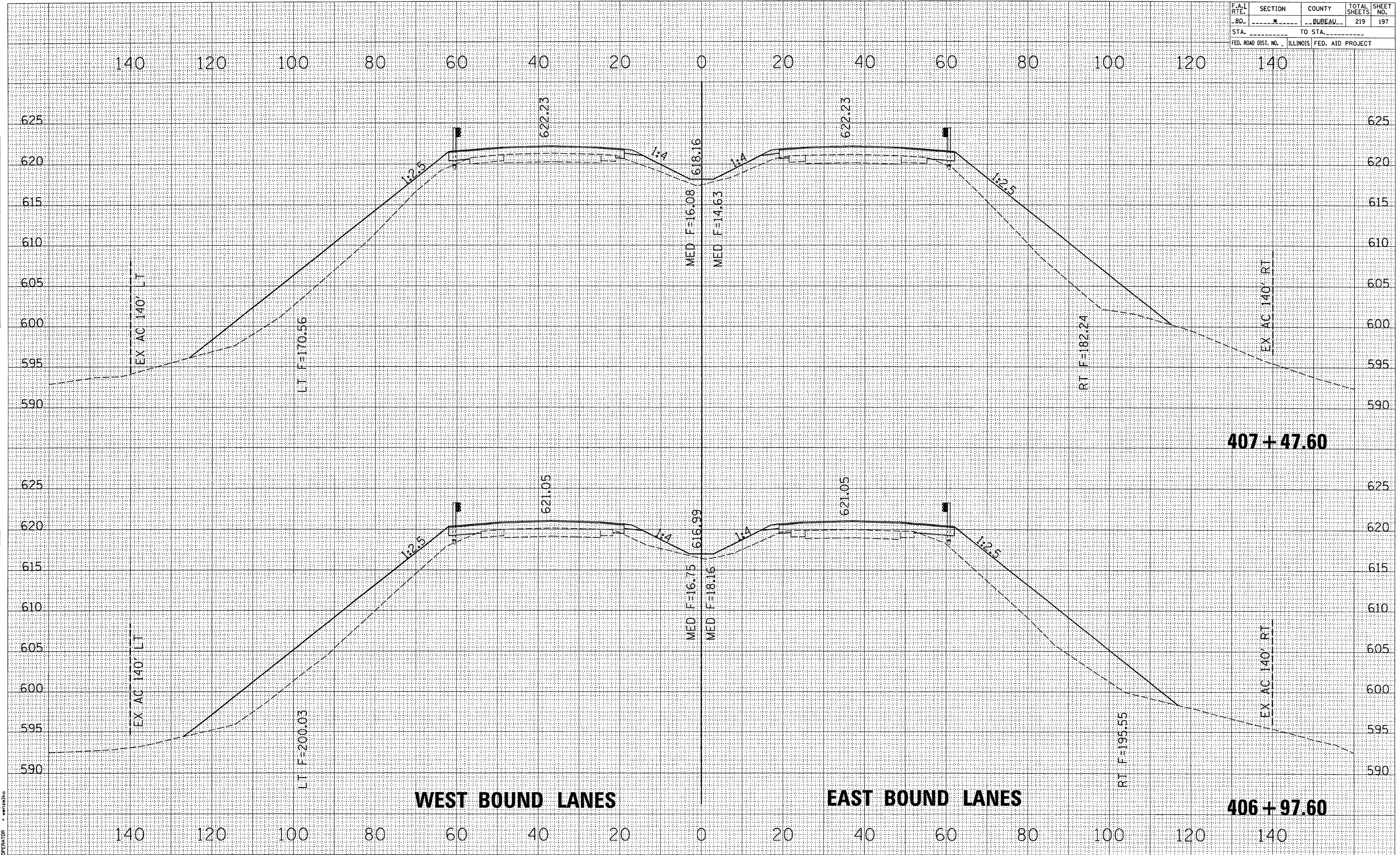
EAST BOUND LANES

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	BUREAU	219	197
STA.		TO STA.		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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

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

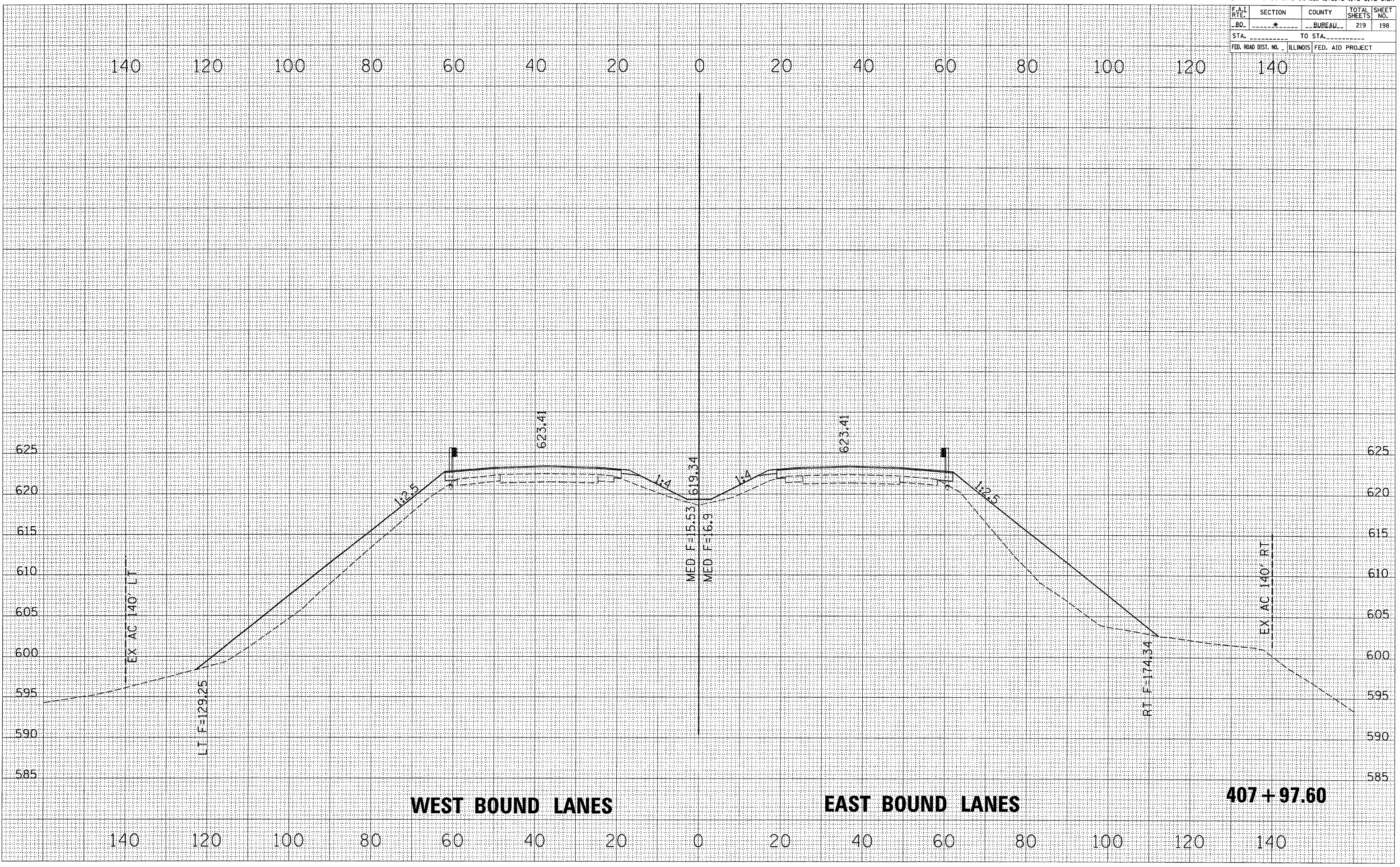
FILE NAME = 8115L
LEVELS = 8115L
PLOT SCALE = 1"=40'
PLOT DATE = Aug 27, 2008
OPERATOR = sersalco



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

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

FILE NAME = #FILES
 LEVELS = #LEVELS
 PLOT SCALE = #PLOTSCALE#
 PLOT DATE = Aug 27, 2008
 OPERATOR =

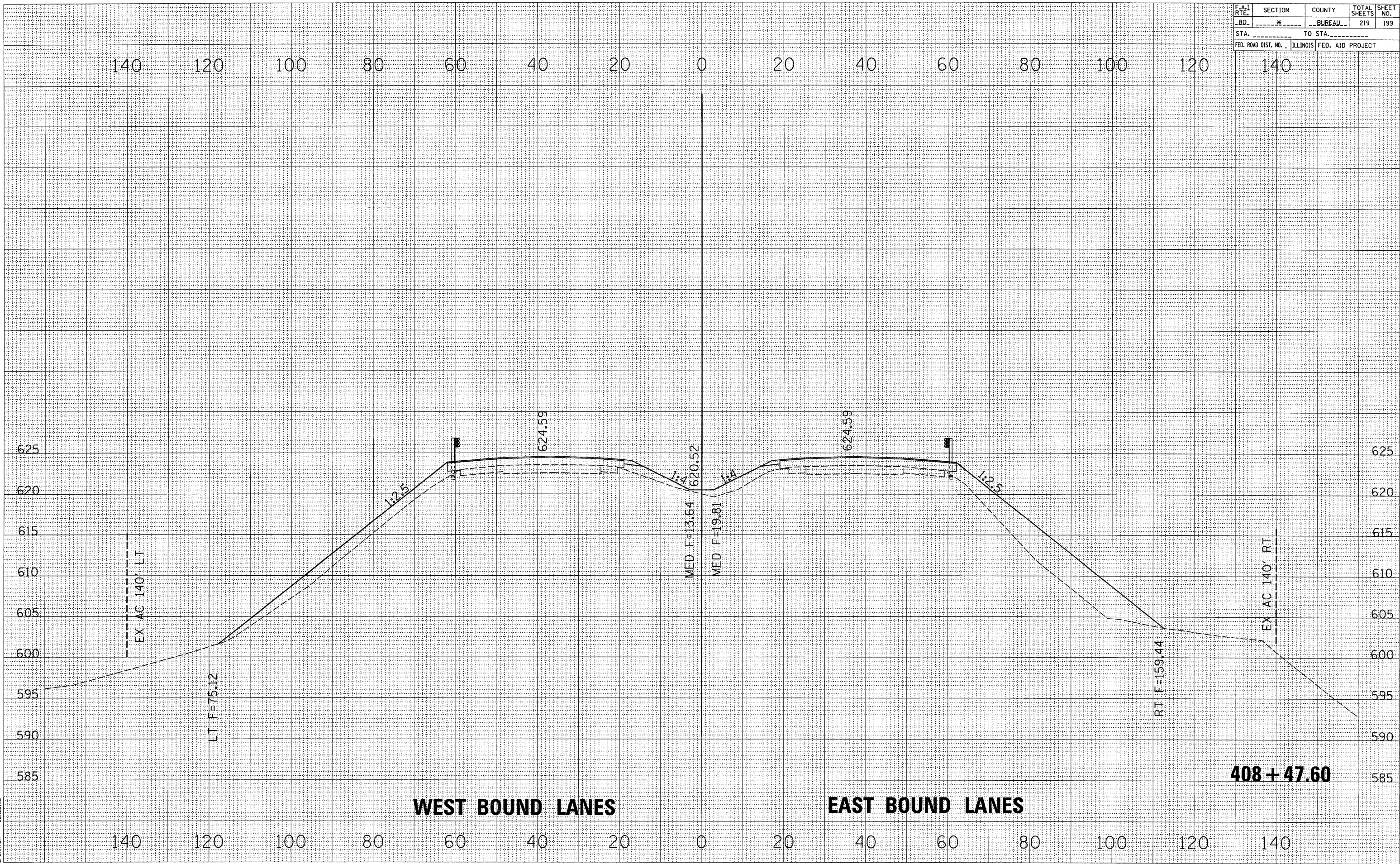


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	*	BUREAU	219	199
STA. _____		TO STA. _____		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

FILE NAME = #FILES
 LEVELS = #LEVELS
 PLOT SCALE = #PLOTS/SCALE\$
 PLOT DATE = Aug 27, 2008
 OPERATOR = wenzelko

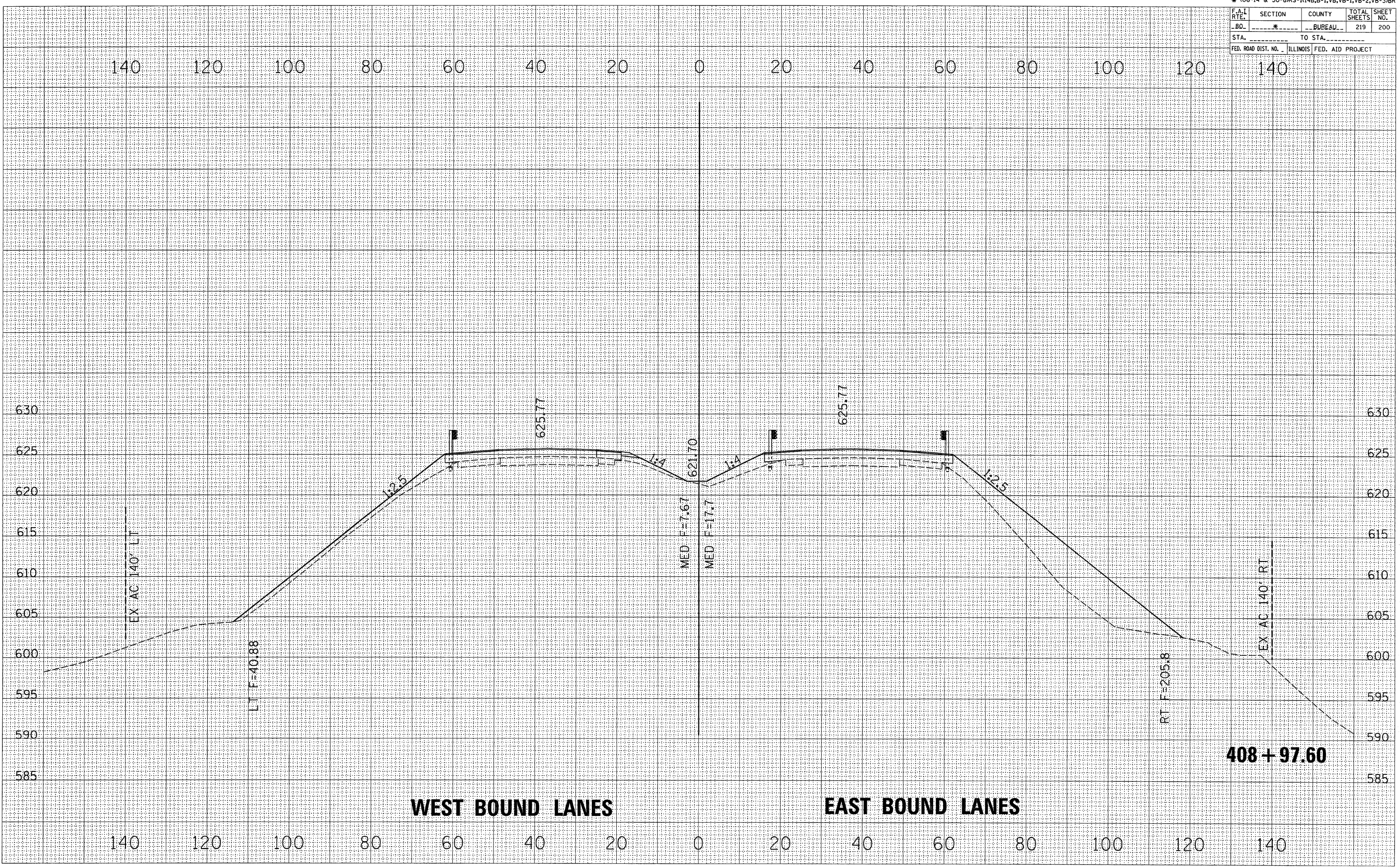


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
---	---	---	219	200
STA. -----		TO STA. -----		
FED. ROAD DIST. NO. ---		ILLINOIS FED. AID PROJECT		

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

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

FILE NAME : #FILES
 LEVELS : #LEVELS
 PLOT SCALE : #PLOTS/SALES
 PLOT DATE : Aug 27, 2008 - 02:34:57 PM
 OPERATOR : wnsrlk



WEST BOUND LANES

EAST BOUND LANES