

PROJECT	DESIGNATION
2101745	2101745
CONTRACT	BRIDGE FILE
B-44276	HANCOCK CO. BRIDGE 67

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE REPLACEMENT PLANS

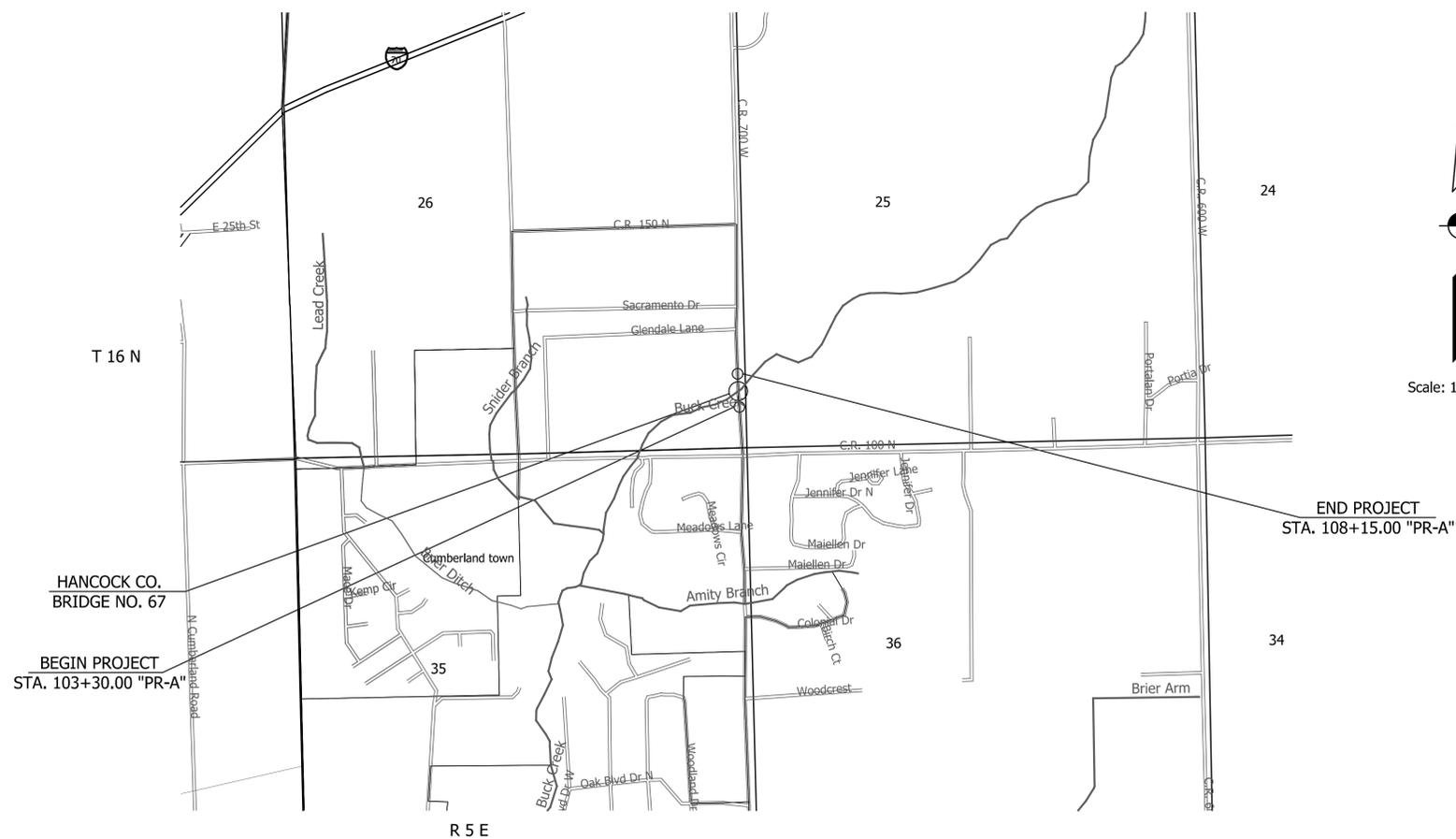
FOR SPANS OVER 20 FEET

ROUTE: CR 700 W

PROJECT NO. 2101745 P.E.
2101745 R/W
2101745 CONST.

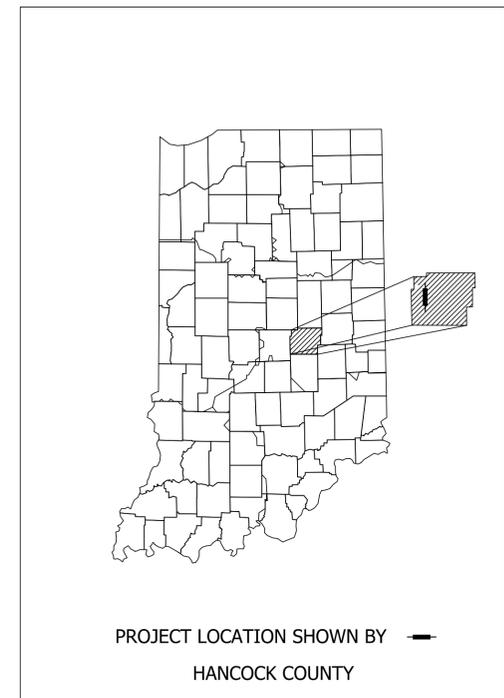
PROJECT DESCRIPTION

This Bridge Replacement is on CR 700W over Buck Creek located approximately 0.15 miles north of CR 100N in section 25 & 26, T 16 N, R 5 E, Buck Creek Township, Hancock County, Indiana.



TRAFFIC DATA		CR 700W	
A.A.D.T. (2026)	4800	V.P.H.	
A.A.D.T. (2046)	9500	V.P.H.	
D.H.V (2046)	14	V.P.H.	
DIRECTIONAL DISTRIBUTION		74	%
TRUCKS		3	% A.A.D.T.
		3	% D.H.V.

DESIGN DATA	
DESIGN SPEED	45 M.P.H.
PROJECT DESIGN CRITERIA	3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION	Local Street
RURAL/URBAN	Urban (Suburban)
TERRAIN	Level
ACCESS CONTROL	None



LATITUDE: 39°47'59" N LONGITUDE: 85°56'02" W

BRIDGE LENGTH: 0.020 MI.
ROADWAY LENGTH: 0.072 MI.
TOTAL LENGTH: 0.092 MI.
MAX. GRADE: -2.46 %

HUC: 051202040504

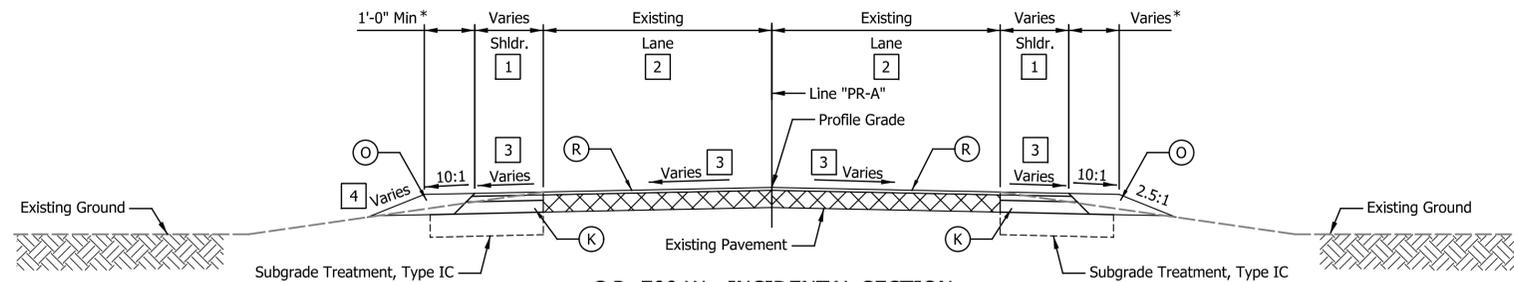
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS.



9025 RIVER ROAD, SUITE 200
INDIANAPOLIS, IN 46240
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

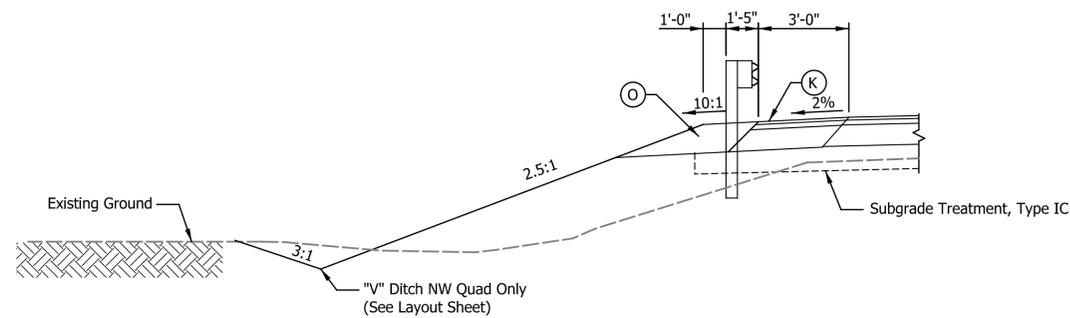
PLANS PREPARED BY: American Structurepoint, Inc. (317) 547-5580 PHONE NUMBER
CERTIFIED BY: _____ DATE
APPROVED FOR LETTING: _____ DATE
INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE	
HANCOCK CO. BRIDGE 67	
DESIGNATION	
2101745	
SHEETS	
SURVEY BOOK	1 of 31
ELECTRONIC	PROJECT
CONTRACT	2101745
B-44276	



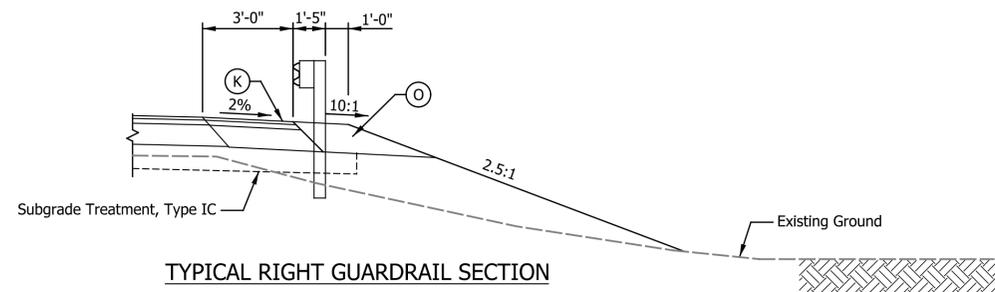
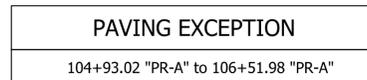
C.R. 700 W - INCIDENTAL SECTION

- 1 Varies From 1'-0" To 2'-0" From 102+90.00 "PR-A" to 103+30.00 "PR-A"
Varies From 2'-0" To 1'-0" From 108+15.00 "PR-A" to 108+55.00 "PR-A"
- 2 Varies From 10'-0" To 11'-0" From 102+90.00 "PR-A" to 103+30.00 "PR-A"
Varies From 11'-0" To 10'-0" From 108+15.00 "PR-A" to 108+55.00 "PR-A"
- 3 Varies From Existing To 2% From 102+90.00 "PR-A" to 103+30.00 "PR-A"
Varies From 2% To Existing From 108+15.00 "PR-A" to 108+55.00 "PR-A"
- 4 Varies From 2.5:1 To Existing From 108+40.00 "PR-A" to 108+55.00 "PR-A"



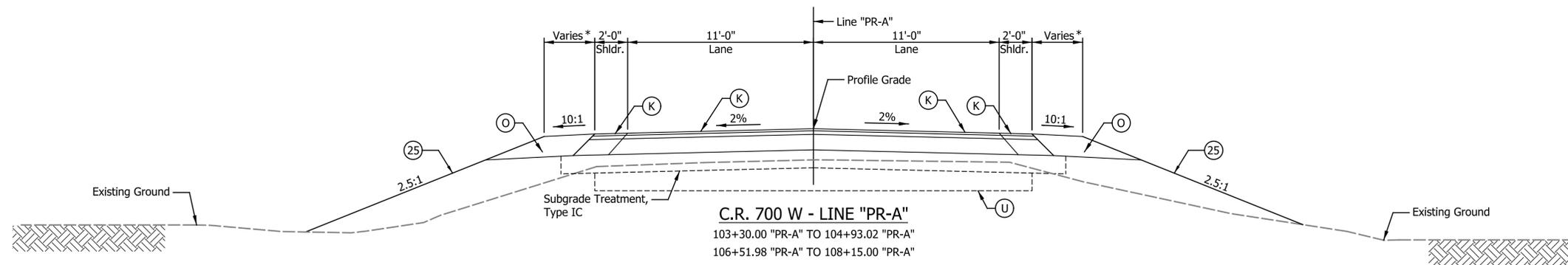
TYPICAL SECTION LEFT GUARDRAIL

103+98.70 "PR-A" to 104+86.20 "PR-A"
106+71.53 "PR-A" to 107+21.53 "PR-A"



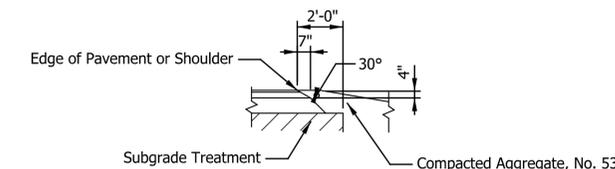
TYPICAL RIGHT GUARDRAIL SECTION

104+23.46 "PR-A" to 104+73.46 "PR-A"
106+58.79 "PR-A" to 107+46.29 "PR-A"



C.R. 700 W - LINE "PR-A"

103+30.00 "PR-A" TO 104+93.02 "PR-A"
106+51.98 "PR-A" TO 108+15.00 "PR-A"



HMA PAVEMENT SAFETY EDGE

NOTES:

* For Grading at Guardrail End Treatments, See Standard Drawing E601-GRET-06.

- LEGEND**
- (25) Mulched Seeding, R
 - (O) Variable Depth Compacted Aggregate for Shoulder, No. 53
 - (R) 165 #/Syd. QC/QA-HMA, 3, 58S, Surface, 9.5 mm, on Transition Milling (0" To 1.5")

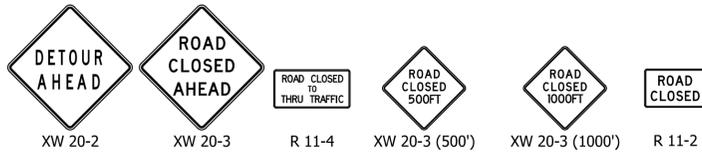
- (K) 165 lbs/Syd QC/QA-HMA 3, 58S, Surface, 9.5 mm, on 275 lbs/Syd. QC/QA-HMA 3, 58S, Intermediate, 19.0 mm, on 660 lbs/Syd QC/QA-HMA 3, 58S, Base, 25.0 mm, on Subgrade Treatment, Type IC on Geotextile for Pavement, Type 2B
- (U) Compacted Aggregate No. 8 on Geotextile for Pavement, Type 2A

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: _____ CDG	DRAWN: _____ SJD	
CHECKED: _____ RTA	CHECKED: _____ RTA	

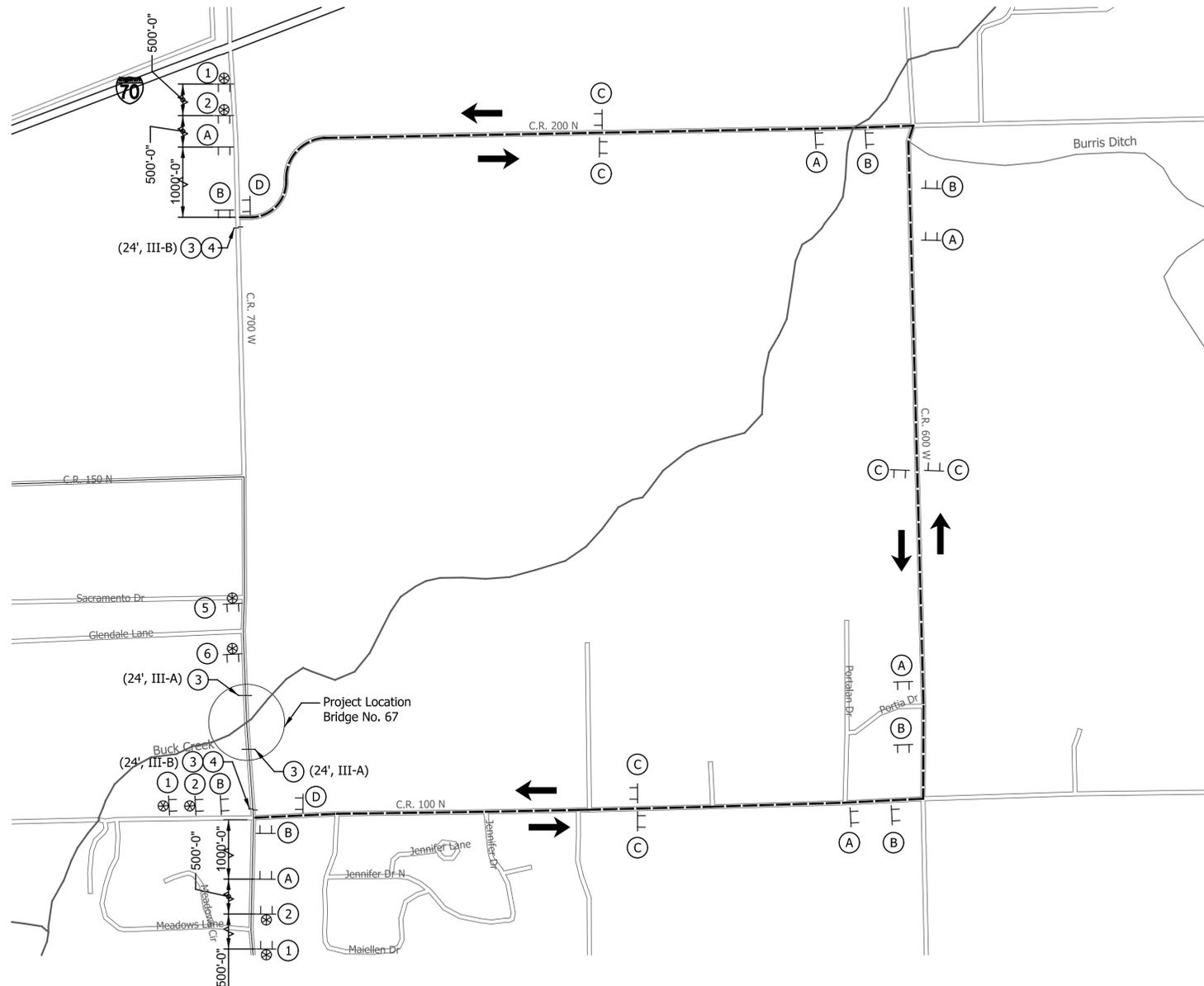
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 31
CONTRACT	PROJECT
B-44276	2101745



QUANTITY SUMMARY		
Detour Route Marker Assembly	21	Each
Construction Sign, Type A	10	Each
Type III-A Barricade	48	Lft.
Type III-B Barricade	48	Lft.
Road Closure Sign Assembly	4	Each



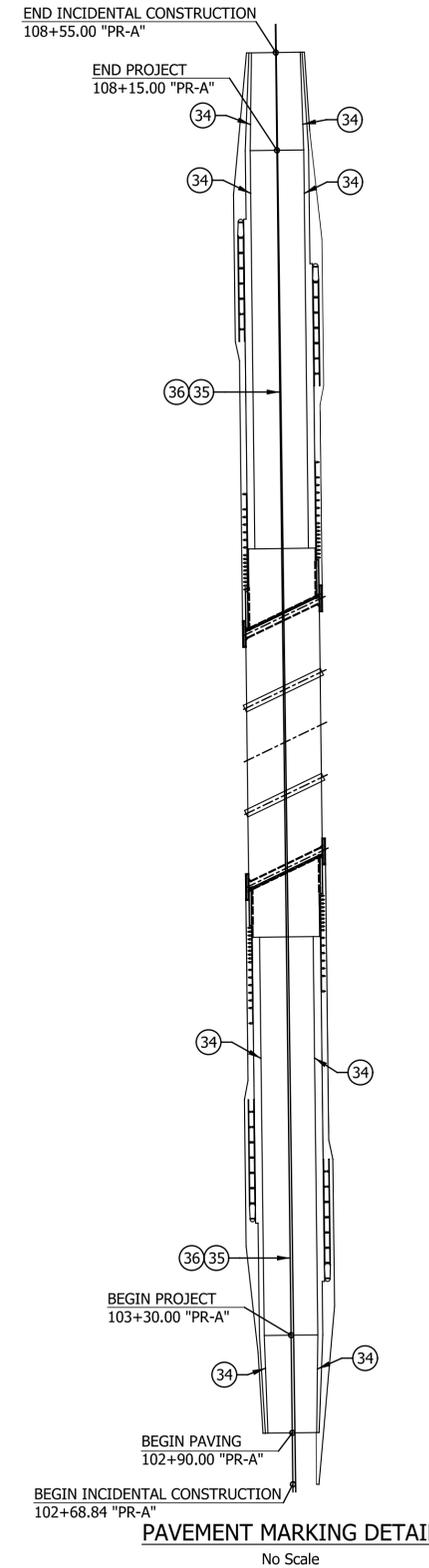
DETOUR PLAN DETAIL
Scale: 1" = 600'-0"

NOTES :

For Detour Route Marker Assemblies (A), (B), (C) and (D), see Standard Drawing E801-TCDT-04.

For Traffic Control Device Details, see Standard Drawing E801-TCDV-04 thru -08.

Two "Road Closure Notice" Signs (XG20-5) Shall Be Placed Prior To Road Closure as Directed By The Engineer.



PAVEMENT MARKING DETAIL
No Scale

PAVEMENT MARKING QUANTITY SUMMARY TABLE	
Line, Multi Component, Solid, White, 6in.	1130 Lft.
Line, Multi Component, Solid, Yellow, 6in.	410 Lft.
Line, Multi Component, Broken, Yellow, 6in.	283 Lft.
Grooving for Pavement Markings	1823 Lft.

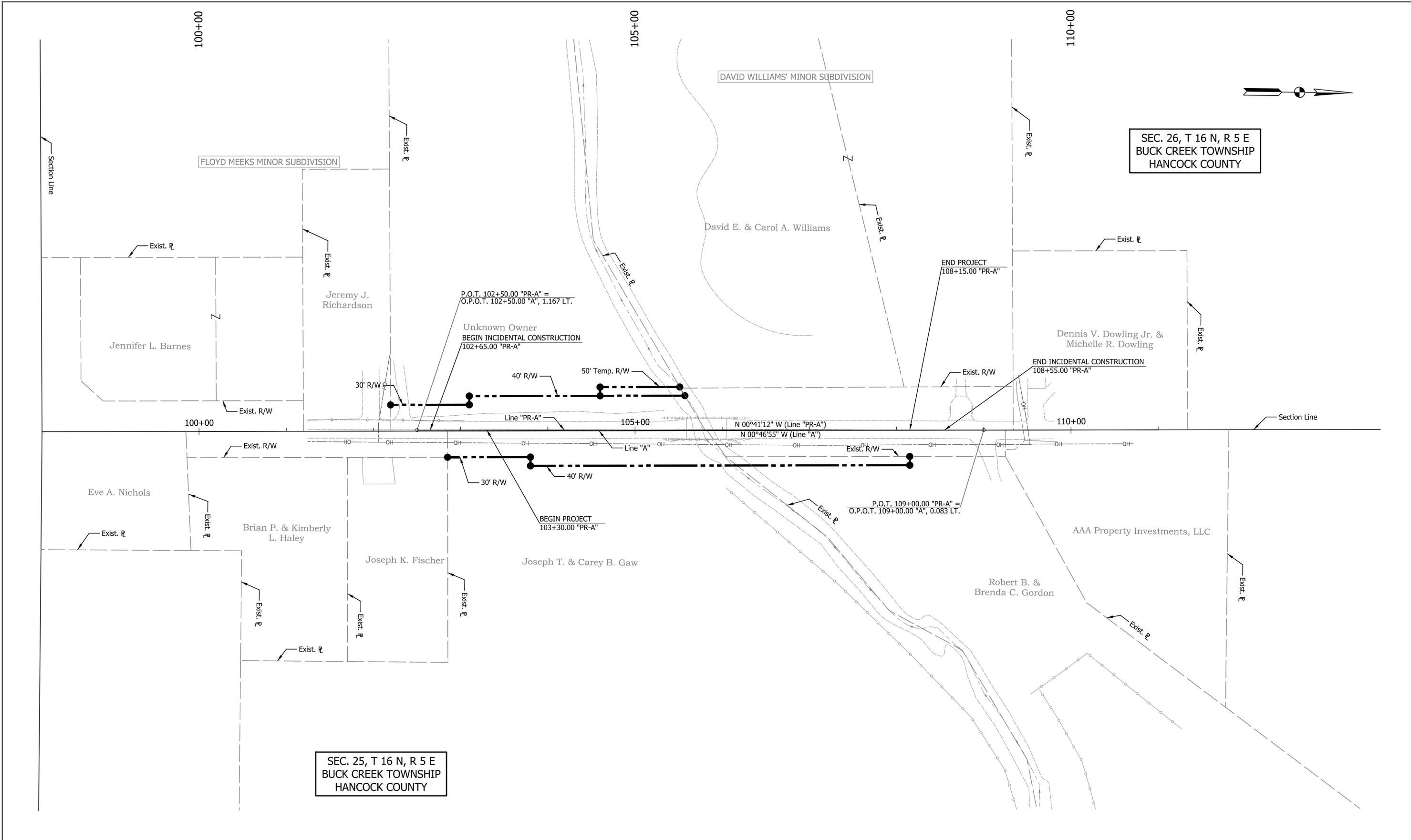
LEGEND		
① XW20-3 ROAD CLOSED AHEAD	⑤ XW20-3 ROAD CLOSED 1000'	③④ Line, Multi Component, Solid, White, 6in.
② XW20-2 DETOUR AHEAD	⑥ XW20-3 ROAD CLOSED 500'	③⑤ Line, Multi Component, Solid, Yellow, 6in.
③ Type III-A or III-B Barricade W/ Road Closure Sign Assembly Req'd. (R 11-2)	⊕ Construction Sign With Type A Warning Light	③⑥ Line, Multi Component, Broken, Yellow, 6in.
④ R11-4 ROAD CLOSED TO THRU TRAFFIC	⊥ Detour Route Marker Assembly	
	— Detour Route	

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ SJD _____	DRAWN: _____ SJD _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

INDIANA DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 31
CONTRACT	PROJECT
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SEC. 26, T 16 N, R 5 E
BUCK CREEK TOWNSHIP
HANCOCK COUNTY

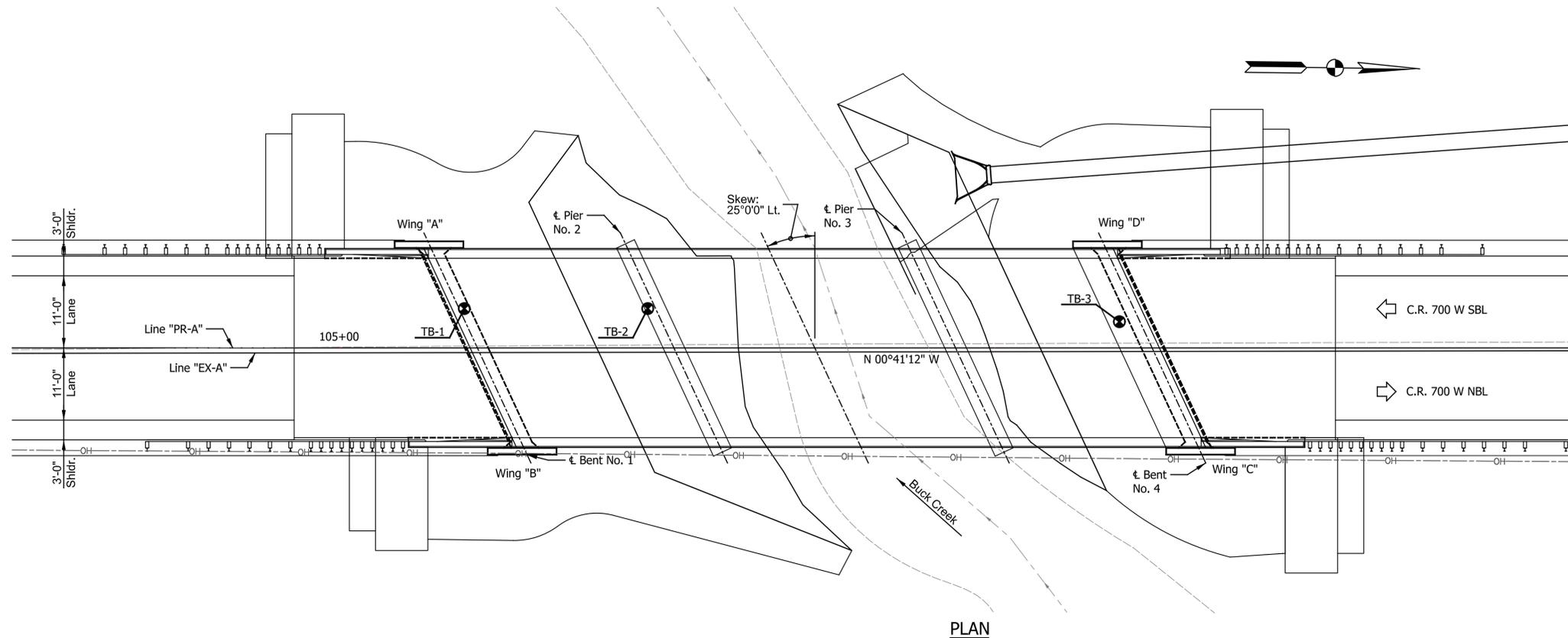
SEC. 25, T 16 N, R 5 E
BUCK CREEK TOWNSHIP
HANCOCK COUNTY

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ SJD _____	DRAWN: _____ SJD _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'-0"	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 31
CONTRACT	PROJECT
B-44276	2101745



PLAN

LOG OF TEST BORING									
CLIENT : American Structures, Inc.		BORING NO. : TB-1		SHEET : 1 OF 3					
DES NO. : 2101745		STRUCTURE # : Hancock County Bridge 67		LATITUDE : 39.79955					
PROJECT TYPE : Bridge Replacement		PROJECT NO. : C4225317		LONGITUDE : -85.83386					
LOCATION : CR 700W over Buck Creek		DATE STARTED : 10-23-24		DATUM : NAD 83					
COUNTY : Hancock		DATE COMPLETED : 10-23-24		HAMMER : Auto					
ELEVATION : 838.0		BORING METHOD : Hollow Stem Auger		DRILLER/NSP : B.M.					
STATION : 105+19		BIG TYPE : CME 750		TEMPERATURE : 87.7					
OFFSET : 3.0' (L)		CASING DIA. : 12.0"		WEATHER : Sunny					
DEPTH : 38.8 ft		CORE SIZE : 4.0"							
GROUNDWATER : Encountered at 16.5 ft		At completion							
ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT	RECOVERY	WATER CONTENT	LIQUID LIMIT	PLASTICITY INDEX	REMARKS
838.0	0.0	Asphaltic Concrete	SS 1	5-5-6	89	14.1	120.4	4.25	
835.0	3.0	Sandy Loom, medium stiff to stiff, moist, brown, with silt loam zones near 4 ft, (H), A-4, Lab No. 39644	SS 2	5-4-4	54	10.6		1.75	
830.0	8.0	Sandy Loom, stiff, moist, brown, A-4, Lab No. 39650	SS 3	5-7-5	100	20.7	2.0	>4.5	
825.0	13.0	Sandy Loom, stiff to hard, moist, brown, A-4, Lab No. 39649	SS 4	5-7-4	72	17.4	1.5	>4.5	
820.0	18.0	Sandy Loom, very stiff to hard, moist, brown, A-4, Lab No. 39648	SS 5	9-9-13	100	6.6		4.25	
815.0	23.0	Sandy Loom, very stiff to hard, moist, brown, A-4, Lab No. 39647	SS 6	10-10-10	100	7.8		>4.5	
810.0	28.0	Sand, medium dense, wet, brown, A-2(0), Lab No. 39647	SS 7	11-14-15	89	8.2		>4.5	24.0, pH = 8.4, SO = 2.70
805.0	33.0	Clay Loom, very stiff to hard, moist, gray, with some gravel near 44 ft, A-4, Lab No. 39645	SS 8	19-22-20	83	5.8		1.75	
800.0	38.0	Clay Loom, very stiff to hard, moist, gray, with some gravel near 44 ft, A-4, Lab No. 39645	SS 9	18-8-12	54				
795.0	43.0		SS 10	12-26-45	89	9.9		>4.5	

LOG OF TEST BORING									
CLIENT : American Structures, Inc.		BORING NO. : TB-1		SHEET : 2 OF 3					
DES NO. : 2101745		STRUCTURE # : Hancock County Bridge 67		LATITUDE : 39.79955					
PROJECT TYPE : Bridge Replacement		PROJECT NO. : C4225317		LONGITUDE : -85.83386					
LOCATION : CR 700W over Buck Creek		DATE STARTED : 10-23-24		DATUM : NAD 83					
COUNTY : Hancock		DATE COMPLETED : 10-23-24		HAMMER : Auto					
ELEVATION : 838.0		BORING METHOD : Hollow Stem Auger		DRILLER/NSP : B.M.					
STATION : 105+19		BIG TYPE : CME 750		TEMPERATURE : 87.7					
OFFSET : 3.0' (L)		CASING DIA. : 12.0"		WEATHER : Sunny					
DEPTH : 38.8 ft		CORE SIZE : 4.0"							
GROUNDWATER : Encountered at 16.5 ft		At completion							
ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT	RECOVERY	WATER CONTENT	LIQUID LIMIT	PLASTICITY INDEX	REMARKS
800.0	32.0	Clay Loom, very stiff to hard, moist, gray, with some gravel near 44 ft, A-4, Lab No. 39645	SS 11	30-33-50	100	8.2	132.9	>4.5	7.16
795.0	37.0	Clay Loom, very stiff to hard, moist, gray, with some gravel near 44 ft, A-4, Lab No. 39645	SS 12	19-20-22	83	10.6		>4.5	
790.0	42.0		SS 13	14-20-18	94	9.3		1.75	
785.0	47.0		SS 14	11-13-13	83	13.3		>4.5	
780.0	52.0		SS 15	34-38-20	56		18	13	5 54.0, pH = 7.5, SO = 2.68
775.0	57.0		SS 16	50/4	83	8.0		2.5	
770.0	62.0		SS 17	50/9	87	7.3		1.0	
765.0	67.0		SS 18	50/2	42	5.8		>4.5	

LOG OF TEST BORING									
CLIENT : American Structures, Inc.		BORING NO. : TB-1		SHEET : 3 OF 3					
DES NO. : 2101745		STRUCTURE # : Hancock County Bridge 67		LATITUDE : 39.79955					
PROJECT TYPE : Bridge Replacement		PROJECT NO. : C4225317		LONGITUDE : -85.83386					
LOCATION : CR 700W over Buck Creek		DATE STARTED : 10-23-24		DATUM : NAD 83					
COUNTY : Hancock		DATE COMPLETED : 10-23-24		HAMMER : Auto					
ELEVATION : 838.0		BORING METHOD : Hollow Stem Auger		DRILLER/NSP : B.M.					
STATION : 105+19		BIG TYPE : CME 750		TEMPERATURE : 87.7					
OFFSET : 3.0' (L)		CASING DIA. : 12.0"		WEATHER : Sunny					
DEPTH : 38.8 ft		CORE SIZE : 4.0"							
GROUNDWATER : Encountered at 16.5 ft		At completion							
ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT	RECOVERY	WATER CONTENT	LIQUID LIMIT	PLASTICITY INDEX	REMARKS
760.0	72.0	Loom, hard, moist, gray, with cobbles near 66 ft, A-4, Lab No. 39644	SS 19	50/4	83	7.1		>4.5	
755.0	77.0		SS 20	50/4	83	6.7		>4.5	
750.0	82.0		SS 21	50/3	83	9.4		2.0	
745.0	87.0		SS 22	50/4	83	6.5		4.25	
740.0	92.0	Bottom of Boring at 88.8 ft	SS 23						

PILE LOADING FOR GEOTECHNICAL TESTING		
Bent	Bent No. 1 & 4	Pier No. 2 & 3
Pile Size, Type & Grade	HP 12x53 H-Piles, Grade 50	HP 14x73 H-Piles, Grade 50
Factored Design Load, Q_p (kips) *	125	150
Factored Design Soil Resistance, R_p (kips) *	125	150
Resistance Factor ϕ	0.55	0.55
Downdrag Load, DD (kips)	0	0
Nominal Soil Resistance, $R_{s, calc}$ (kips) **	230	273
Downdrag Friction, $R_{s, calc}$ (kips)	0	0
Scour Zone Friction, $R_{s, scour}$ (kips)	N/A	137
Relaxation Of Tip in Shale, R_{relax} (kips)	N/A	N/A
Nominal Driving Resistance, R_{pile} (kips)	230	410
Testing By Dynamic Pile Load Test, Standard Specifications 701.05 (a.)		

NOTES:

* Including Geotechnical Losses.

** In Calculations of DD , $\gamma_p = 1.4$.

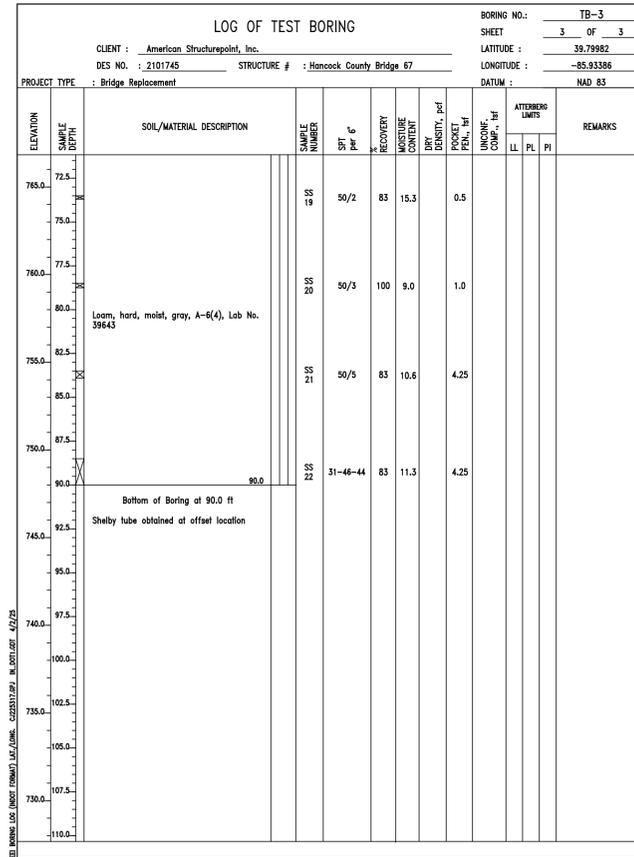
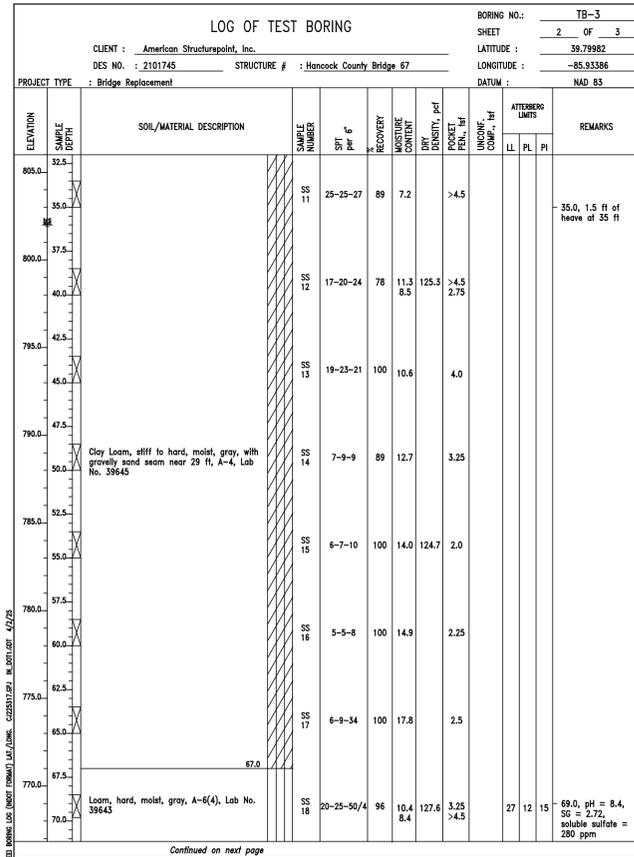
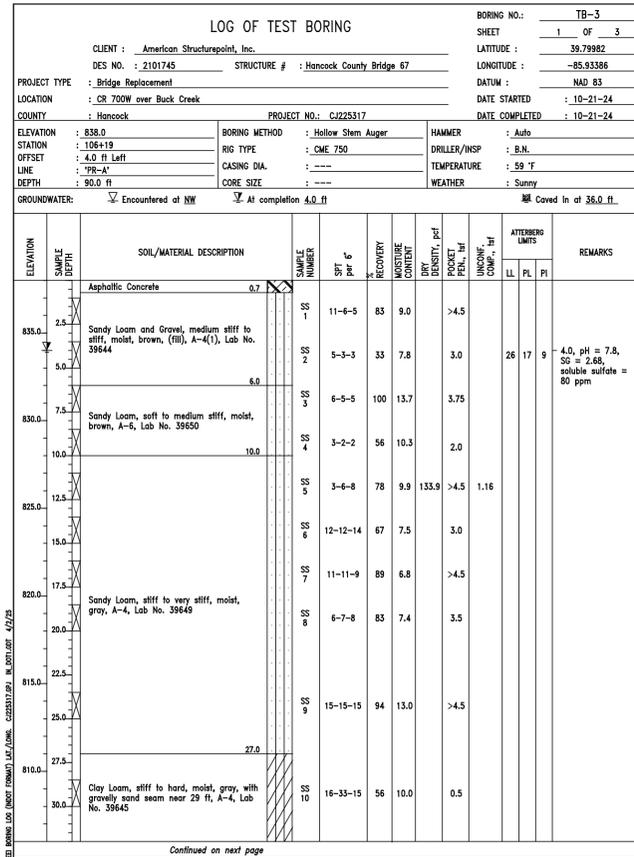
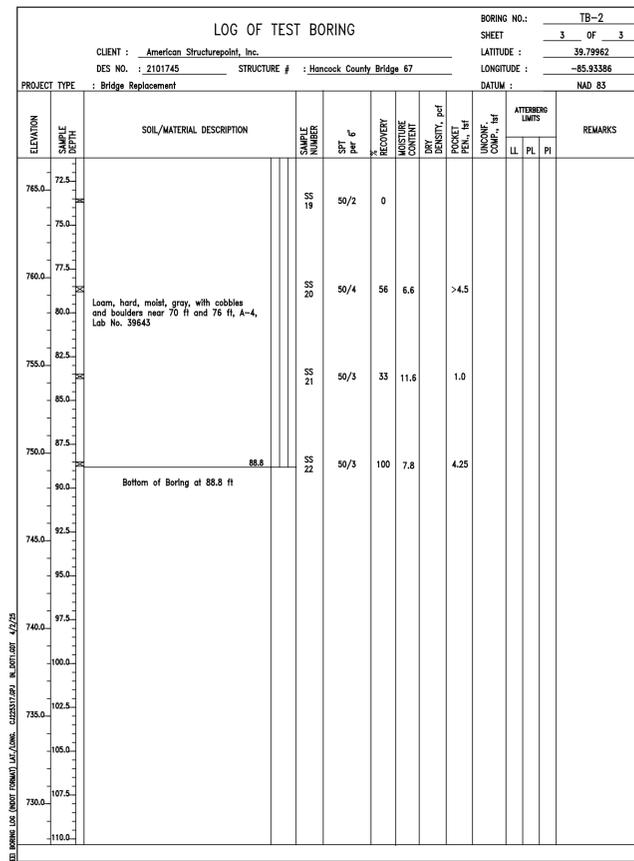
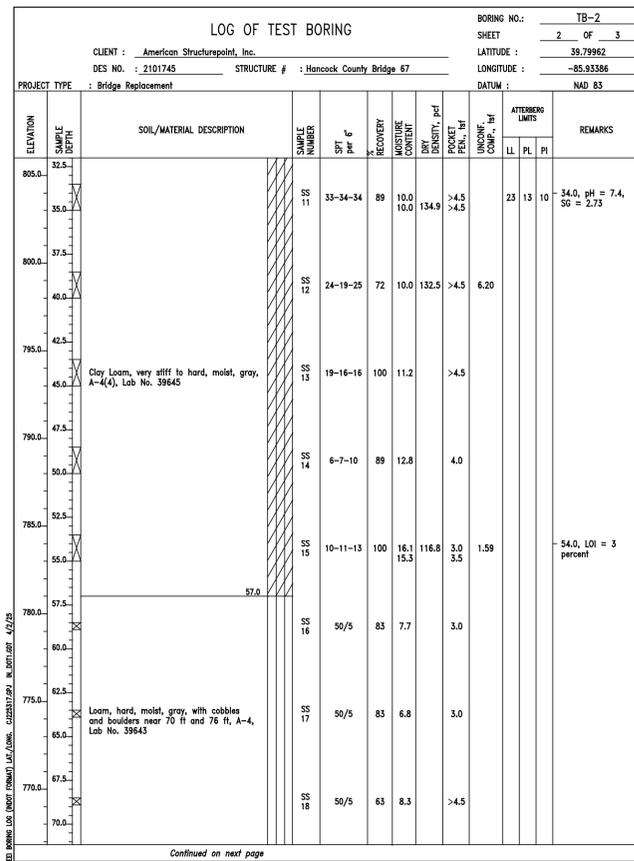
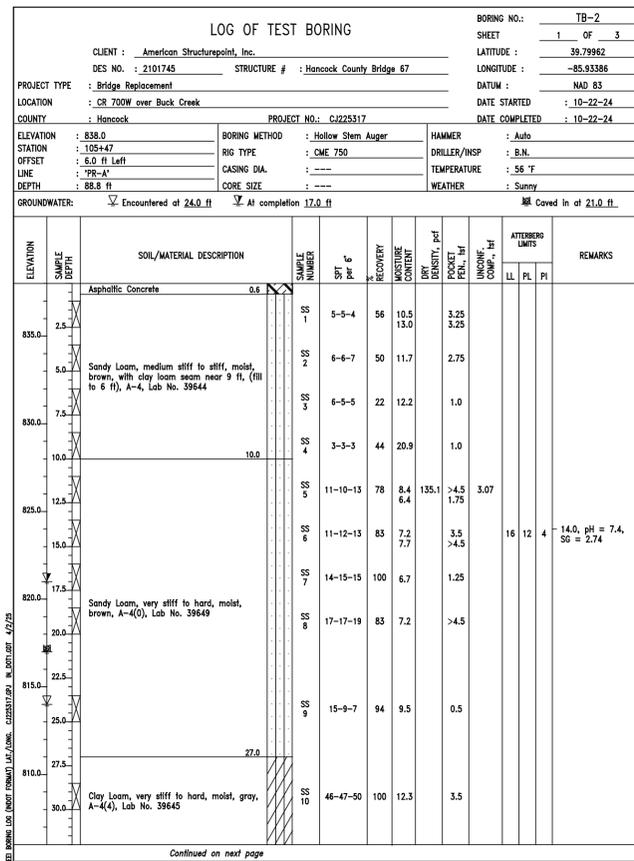
*** Indicator Test Piles to be restruck 72 hours after initial driving at each substructure.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JMM	DRAWN: SJD	
CHECKED: KBD	CHECKED: DAD	

INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
$\frac{3}{32}'' = 1'-0''$	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 31
CONTRACT	PROJECT
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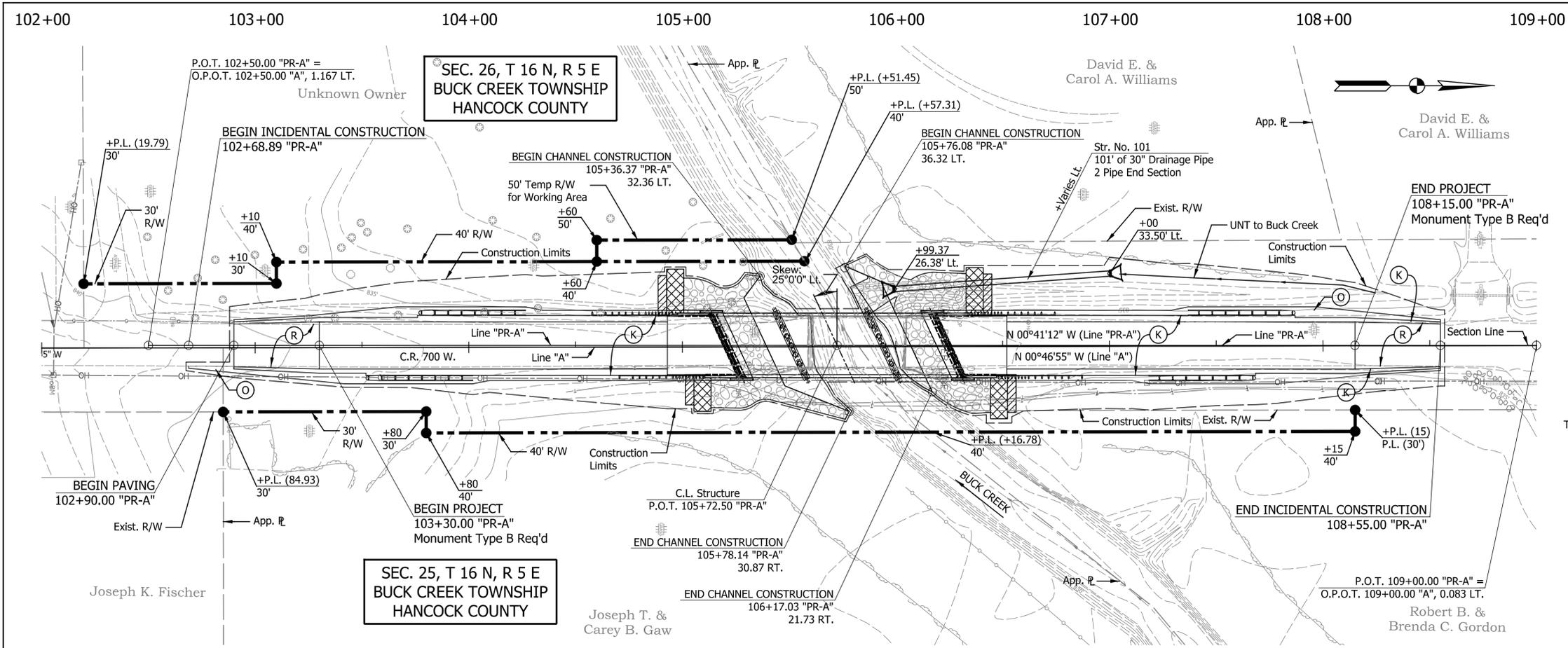


RECOMMENDED FOR APPROVAL _____
DESIGNED: JMM DRAWN: SJD
CHECKED: KBD CHECKED: DAD

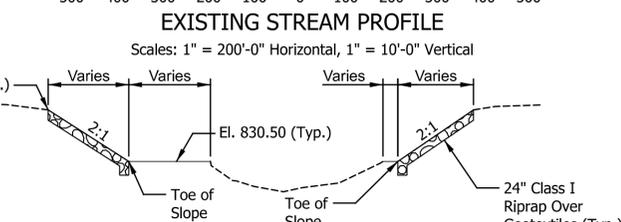
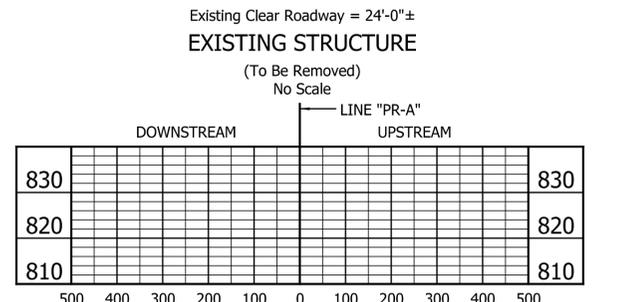
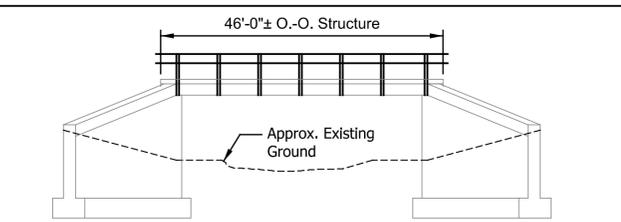
INDIANA
DEPARTMENT OF TRANSPORTATION

SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
N/A	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	7 of 31
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B-44276	2101745



SITUATION PLAN
Scale: 1" = 30'-0", Contour Interval 1'-0"

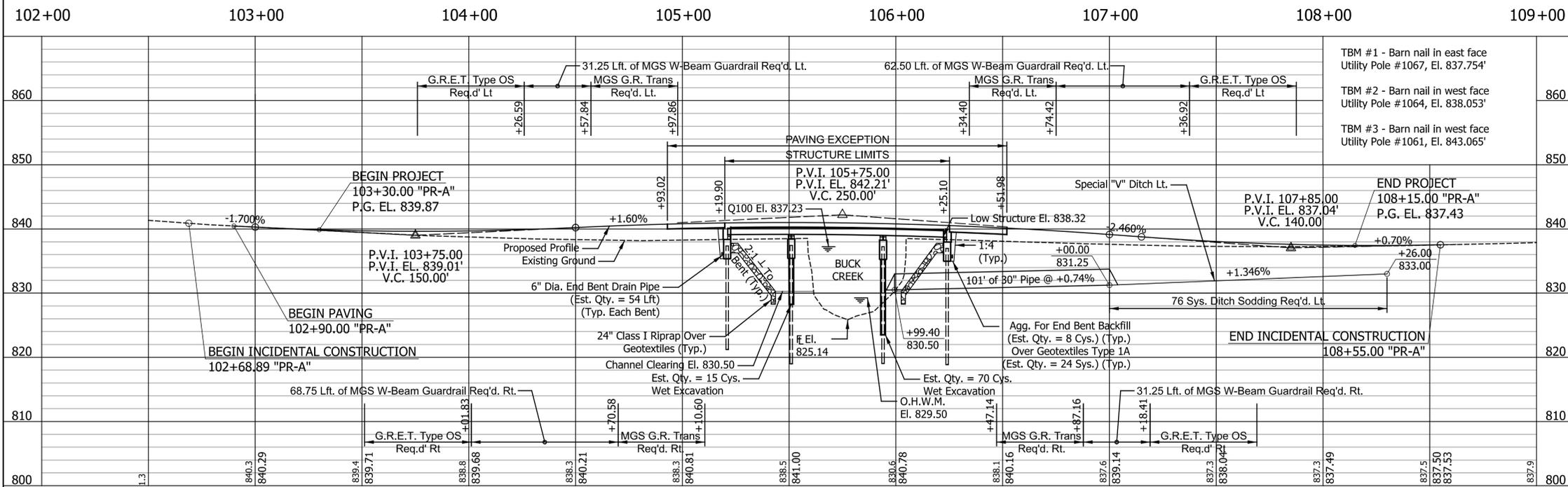


TYPICAL CHANNEL SECTION
No Scale

EARTHWORK SUMMARY

Fill +20%	=	991 Cys.
Common Excavation	=	141 Cys.
Usable Waterway Excavation (70%)	=	210 Cys.
Borrow or Waste	=	850 Cys.
Total Waterway Excavation	=	300 Cys.
Benching*	=	Cys.

* Benchings will not be paid for directly, but shall be included in the cost of other items.



PROFILE ON PROPOSED C ROADWAY
Scales: 1" = 30'-0" Horizontal, 1" = 10'-0" Vertical

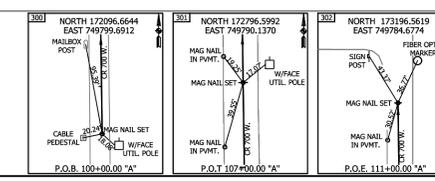
HYDRAULIC & SCOUR DATA

Drainage Area	=	29,545 Sq. Mi.
Discharge (Q100)	=	4500 Cfs.
Q100 High Water El. (Natural Channel)	=	837.23 Ft.
Back Water @ Q100	=	1.06 Ft.
Velocity	=	7.66 Ft./Sec.
Waterway Opening Required	=	633.06 Sft.
Waterway Opening Provided	=	633.06 Sft.
Freeboard Provided (Above El. 837.23)	=	1.09 Ft.
Q100 Scour Elevation	=	804.95 Ft.
Q100 Contraction Scour	=	14.19 Ft.
Q100 Total Scour	=	20.19 Ft.
Q100 Max Velocity	=	10.62 Ft./Sec.
Q500 Scour Elevation	=	798.77 Ft.
Q500 Contraction Scour	=	20.37 Ft.
Q500 Total Scour	=	26.37 Ft.
Q500 Max Velocity	=	12.93 Ft./Sec.

- NOTES:**
- All R/W on this sheet is described from Line "A".
 - Areas indicate limits of 24" Class I Riprap over Geotextiles. (Est. Qty. = 685 Tons of 24" Class I Riprap over 610 Sys. of Geotextiles, Type 1A)
 - Hatched areas indicate limits of 4' wide sodding strip. (Est. Qty. = 34 Sys.)
 - Cross Hatched areas indicate limits of Revetment Riprap over Geotextiles. (Est. Qty. = 92 Tons on 119 Sys. of Geotextile, Type 1A)

CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE
3 SPANS: 30'-0", 43'-0", 30'-0" SKEW: 25° LT. CLEAR ROADWAY: 27'-4"
CR 700 W OVER BUCK CREEK
HANCOCK COUNTY

LEGEND
For (K), (O), (R) See Typical Sections Sheet



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CDG	DRAWN: TMT	
CHECKED: RTA	CHECKED: RTA	

INDIANA DEPARTMENT OF TRANSPORTATION
LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'-0"	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
1" = 10'-0"	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	8 of 31
CONTRACT	PROJECT
B-44276	2101745

STRUCTURE TO BE BUILT TO A 250' VERTICAL CURVE

GENERAL NOTES

Reinforcing steel covering to be 2½" in the top and 2" minimum in the bottom of floor slabs, 3" in the footings except the bottom steel which shall be 4", and 2" in all other parts, unless noted.

DESIGN DATA

LIVE LOAD: Superstructure and substructure designed for HL-93 loading, in accordance with the AASHTO LRFD Bridge Design Specifications, Ninth Edition, 2020, and Interim Revisions.

DEAD LOAD: Actual Weight plus 35 Lbs./Sft. for future wearing surface and 15 Lbs./Sft. for permanent metal deck forms.

FLOOR SLAB: Designed for 32,000 Lbs. axle load impact with a structural depth of 7½".

UNIT STRESSES: Reinforcing Steel, Fy = 60,000 psi
Concrete Class B, f'c = 3,000 psi
Concrete Class A, f'c = 3,500 psi
Concrete Class C, f'c = 4,000 psi

CONSTRUCTION LOADING

The exterior girder has been checked for strength, deflection, and overturning using the constructions loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6" outside the vertical coping form. The top overhang brackets were assumed to be located 6" past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

DESIGN DATA

DECK FALSEWORK LOADS: Designed for 15 Lbs./Sft. for permanent metal stay-in-place deck forms, removable deck forms, and 2' exterior walkway.

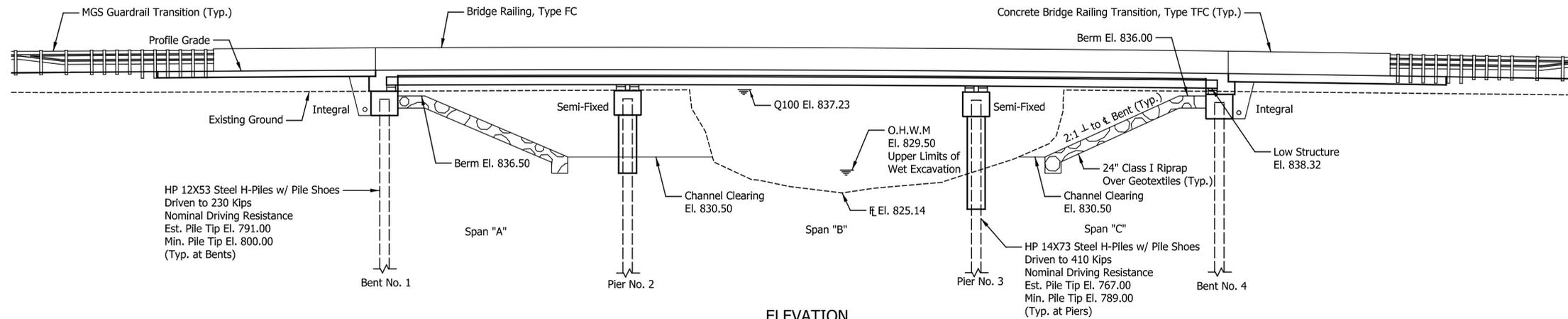
CONSTRUCTION LIVE LOAD: Designed for 20 Lbs./Sft. extending 2' past the edge of coping and 75 Lbs./Ft. vertical force applied at a distance of 6" outside the face of coping over a 30' length of the deck centered with the finishing machine.

FINISHING-MACHINE LOAD: 4500 Lbs. distributed over 10' along the coping.

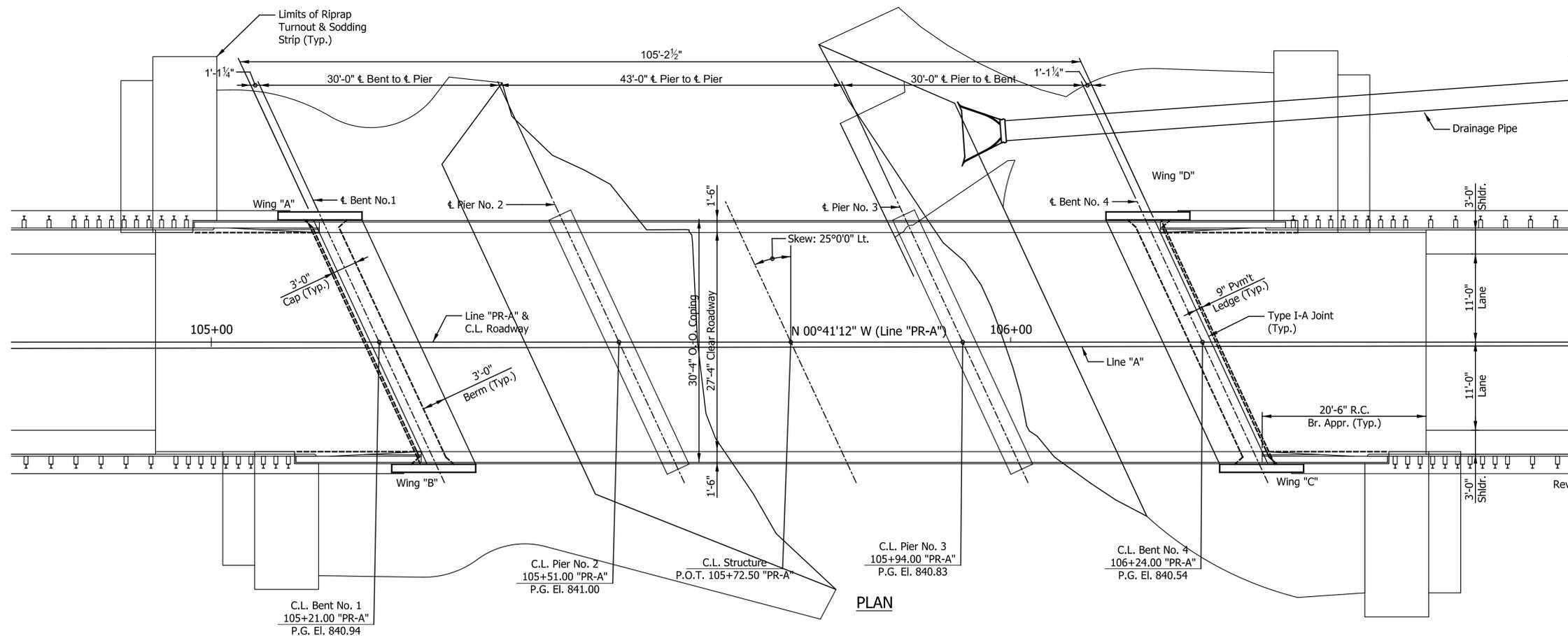
WIND LOAD: Structure designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

SEISMIC DESIGN DATA

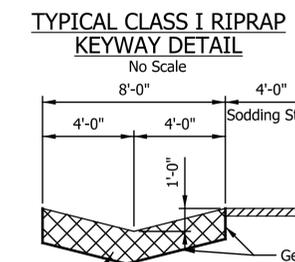
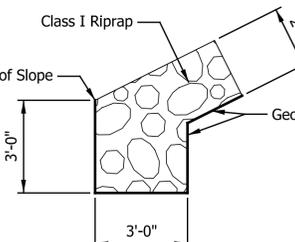
Seismic Performance Zone = Zone 1
Acceleration Coefficient = 0.048
Seismic Site Class = Class D



ELEVATION



PLAN



TYPICAL RIPRAP DRAINAGE TURNOUT SECTION

CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE

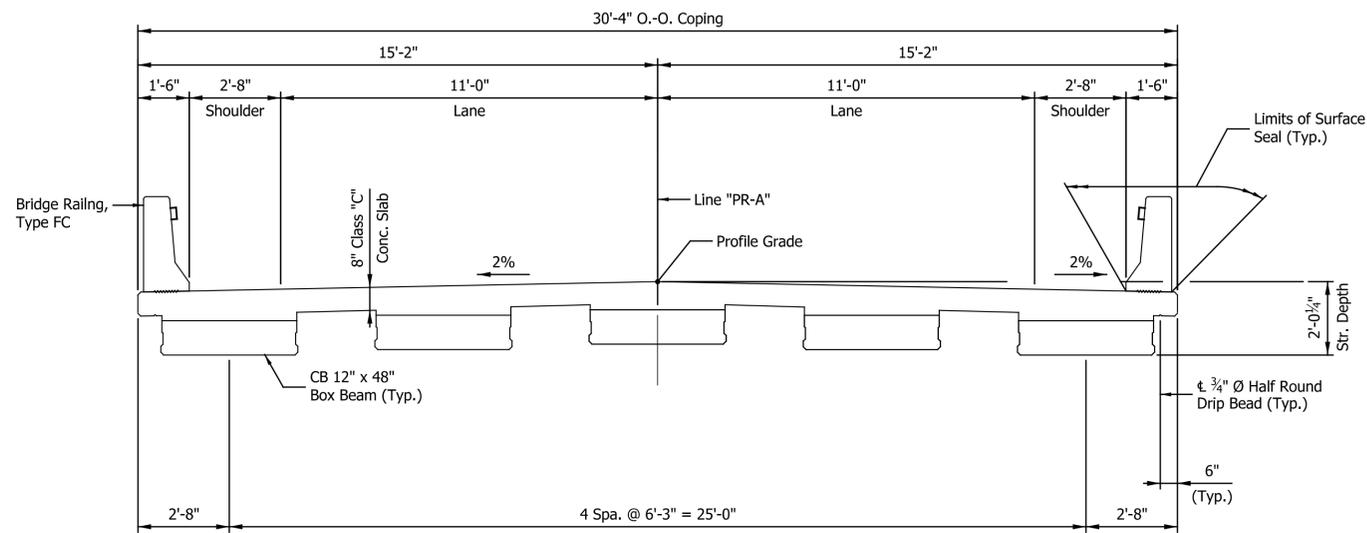
3 SPANS: 30'-0", 43'-0", 30'-0" SKEW: 25° LT. CLEAR ROADWAY: 27'-4" CR 700 W OVER BUCK CREEK HANCOCK COUNTY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CDG	DRAWN: SJD	
CHECKED: RTA	CHECKED: RTA	

INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	9 of 31
CONTRACT	PROJECT
B-44276	2101745



TYPICAL SECTION
Scale: 3/8" = 1'-0"

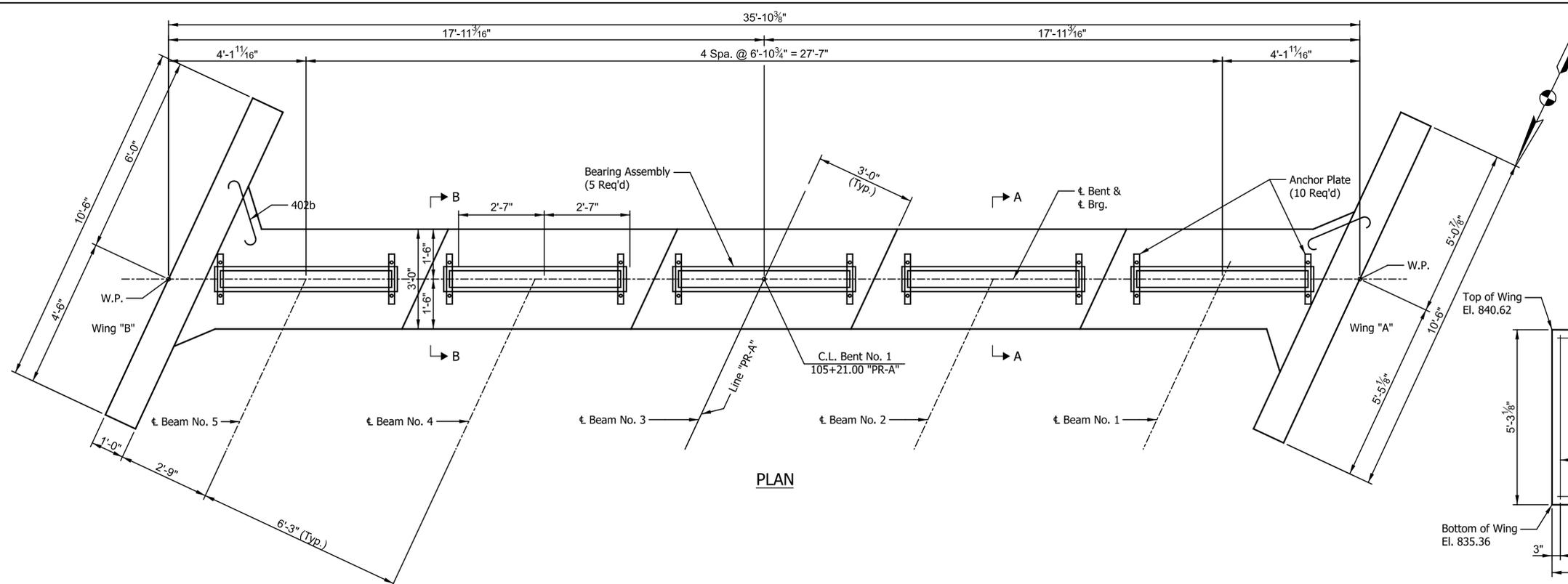
CONTINUOUS COMPOSITE PRESTRESSED CONCRETE
BOX BEAM BRIDGE
3 SPANS: 30'-0", 43'-0", 30'-0" SKEW: 25° LT. CLEAR ROADWAY: 27'-4"
CR 700 W OVER BUCK CREEK
HANCOCK COUNTY

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ SJD _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

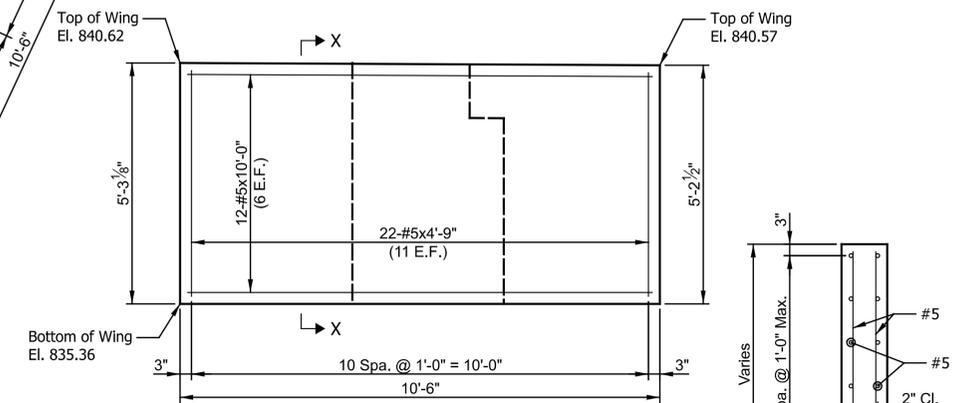
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

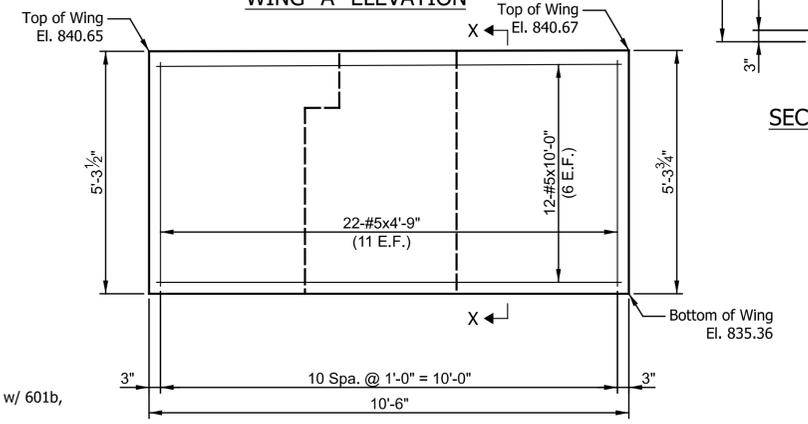
HORIZONTAL SCALE	BRIDGE FILE
3/8" = 1'-0"	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 31
CONTRACT	PROJECT
B-44276	2101745



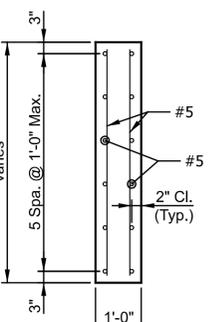
PLAN



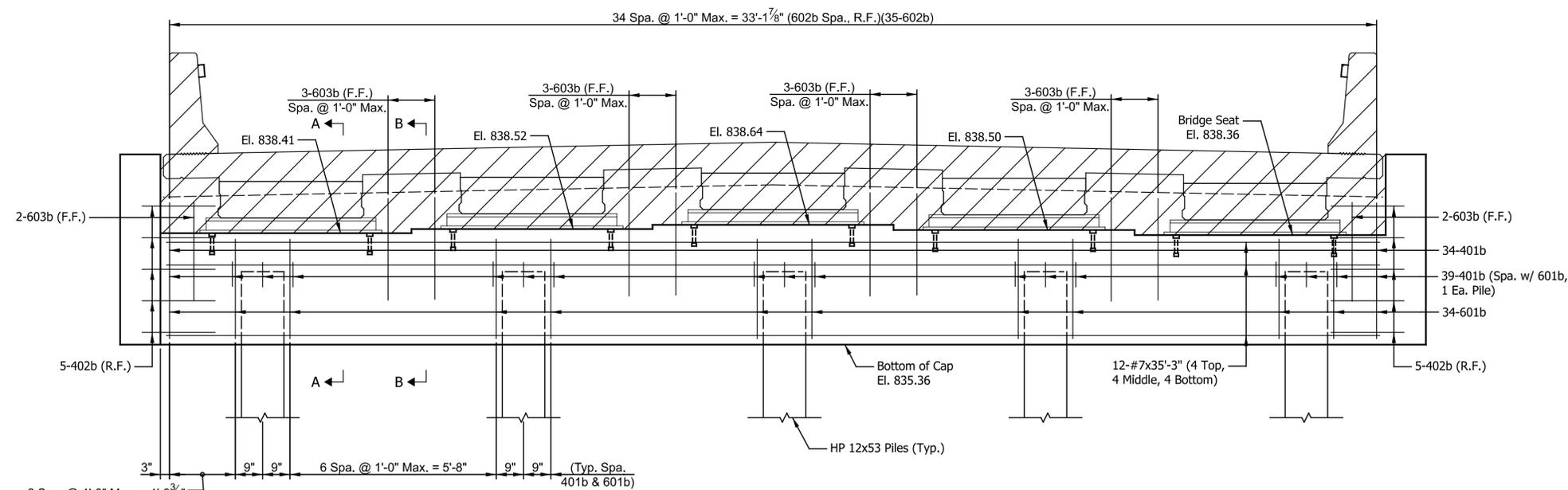
WING "A" ELEVATION



WING "B" ELEVATION



SECTION X-X

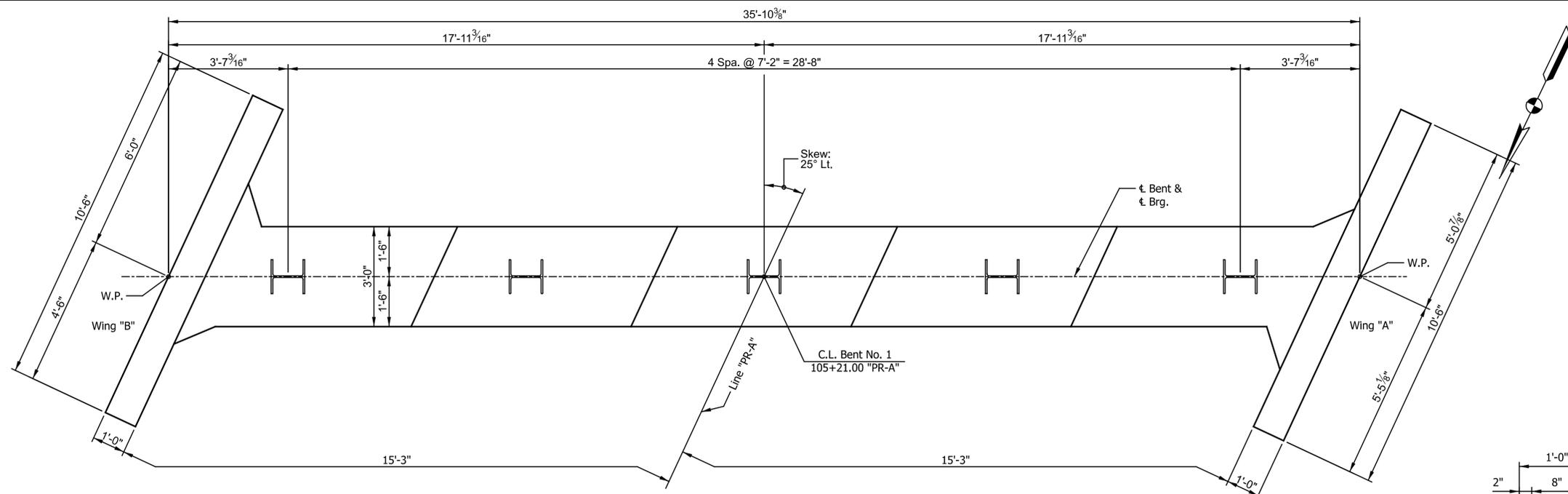


ELEVATION

- NOTES:
- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Hatched area to be poured with superstructure.
 - Surface Seal all exposed surfaces of wings.
 - Anchor Plates to be preset in concrete.
 - For additional details and Bill Of Materials, see Sheet No. 12.
 - For Anchor Plate Detail and Bearing Assembly Details, see Sheet No. 12.
 - For end bent backfill limits and drain pipe details, see Standard Drawing E211-BFIL-04.

RECOMMENDED FOR APPROVAL _____ DESIGNED: TJL CHECKED: MAH	DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION BENT NO. 1 DETAILS	HORIZONTAL SCALE 1/2" = 1'-0"	BRIDGE FILE HANCOCK CO. BRIDGE 67
	DRAWN: SJD CHECKED: DAD		VERTICAL SCALE	DESIGNATION 2101745
			SURVEY BOOK ELECTRONIC	SHEETS 11 of 31
			CONTRACT B-44276	PROJECT 2101745

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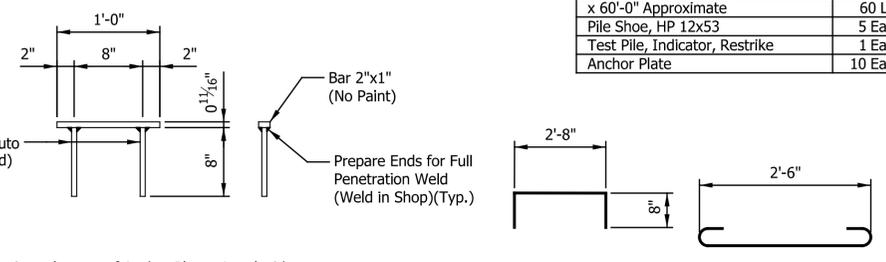


PLAN

BENT NO. 1 BILL OF MATERIALS			
Epoxy Coated Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
#7	12	35'-3"	865
Total No. 7			
601b	34	9'-8"	807
602b	35	3'-8"	
603b	16	5'-0"	
Total No. 6			469
#5	24	10'-0"	
#5	44	4'-9"	219
Total No. 5			
401b	73	4'-0"	2360
402b	10	3'-6"	
Total No. 4			16.0 Cys.
Total Epoxy Coated Reinforcing Steel			
Concrete			
Class "C" in Substructure			16.0 Cys.
Miscellaneous			
Surface Seal			90 Sft.
4-Piles, Steel "H", HP12x53 x 50'-0" Approximate			200 Lft.
1-Test Pile, Indicator, Production x 60'-0" Approximate			60 Lft.
Pile Shoe, HP 12x53			5 Each
Test Pile, Indicator, Restrike			1 Each
Anchor Plate			10 Each

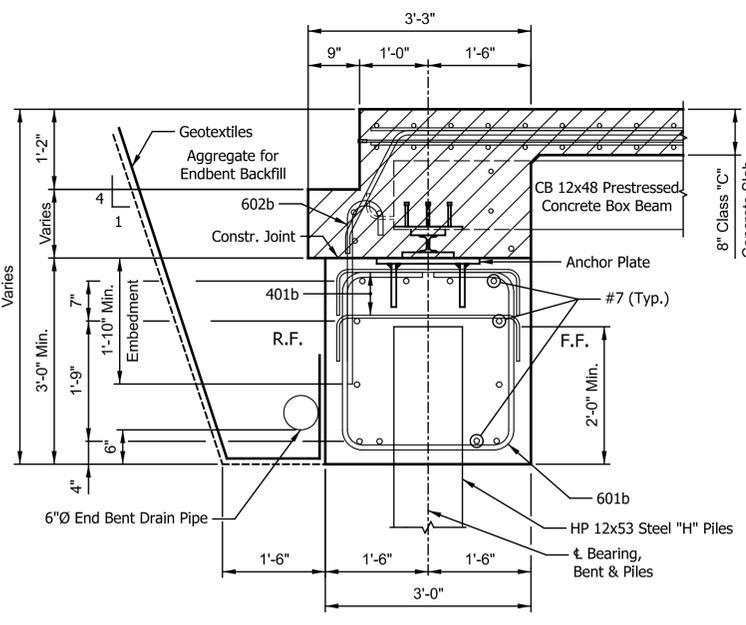
Note:
5-HP12x53 H-Piles with pile shoes required

#8 Reinf. Bars Or 7/8"Ø x 8" Auto Welded Anchor Studs (Headed) May Be Used. (No Paint)

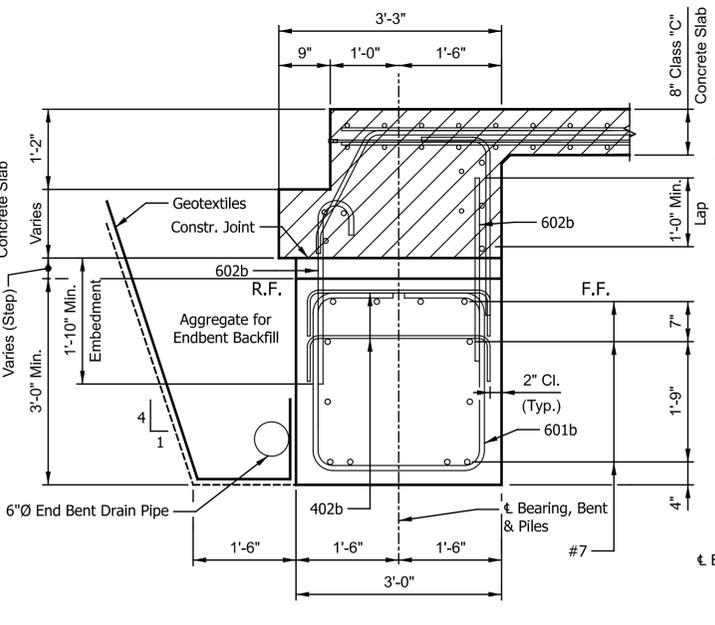


Note:
Setting tolerance of Anchor Plates, Level with to not more than 1/16" below top of concrete.

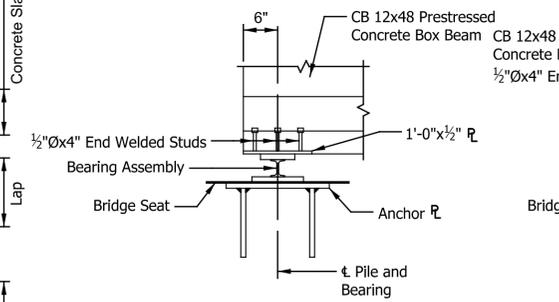
ANCHOR PLATE DETAIL
No Scale



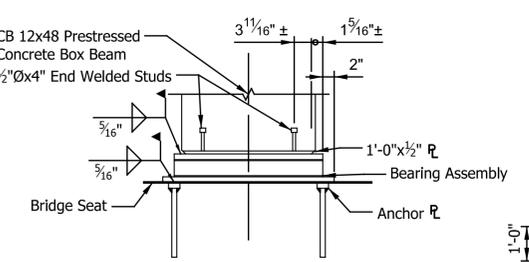
SECTION A-A
Scale: 3/4" = 1'-0"



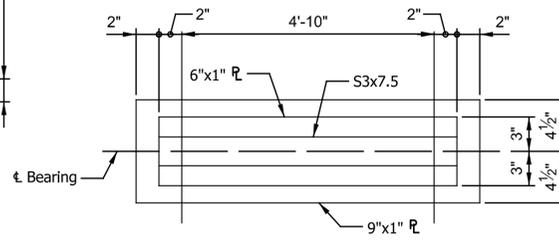
SECTION B-B
Scale: 3/4" = 1'-0"



SIDE VIEW
Scale: 3/4" = 1'-0"

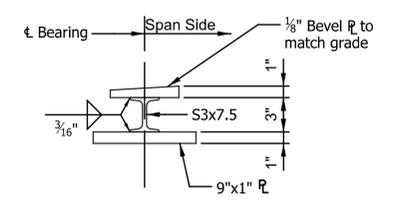


END VIEW
Scale: 3/4" = 1'-0"



PLAN
Scale: 1 1/2" = 1'-0"

BEARING ASSEMBLY DETAILS



ELEVATION
Scale: 1 1/2" = 1'-0"

NOTES:
For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be epoxy coated.
Surface Seal all exposed surfaces of wings.
For end bent backfill limits and drain pipe details, see Standard Drawing E211-BFIL-04.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ TJL _____	DRAWN: _____ SJD _____	
CHECKED: _____ MAH _____	CHECKED: _____ DAD _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

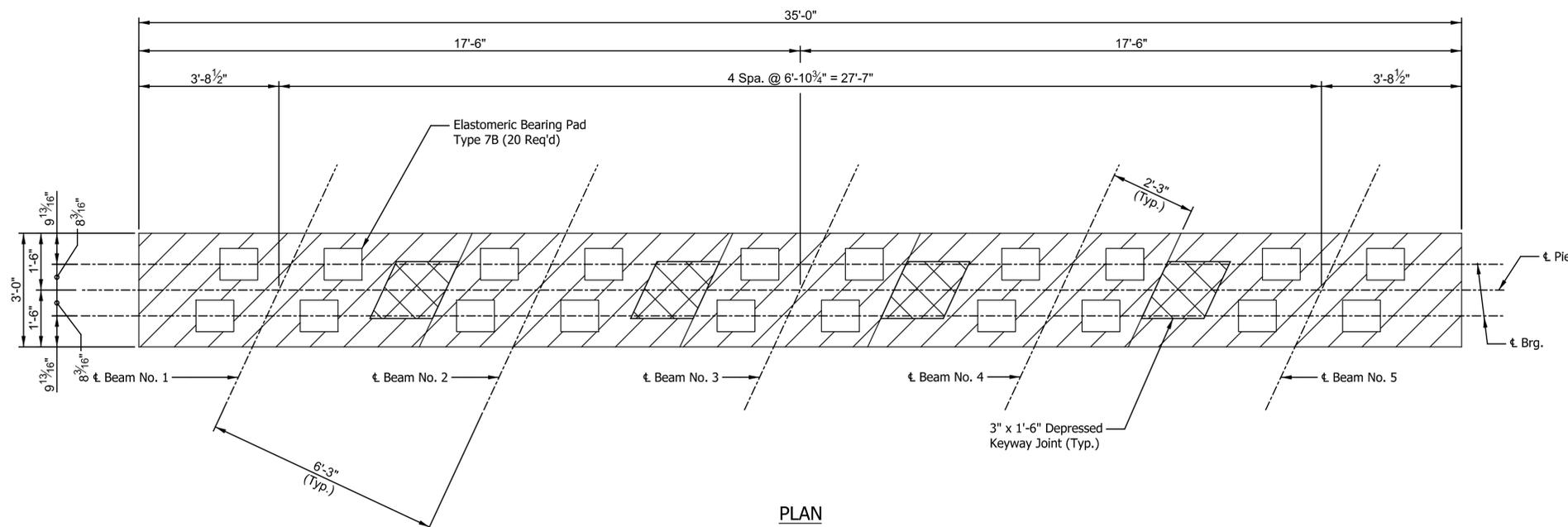
BENT NO. 1 DETAILS

HORIZONTAL SCALE 1/2" = 1'-0"	BRIDGE FILE HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION 2101745
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 31
CONTRACT B-44276	PROJECT 2101745

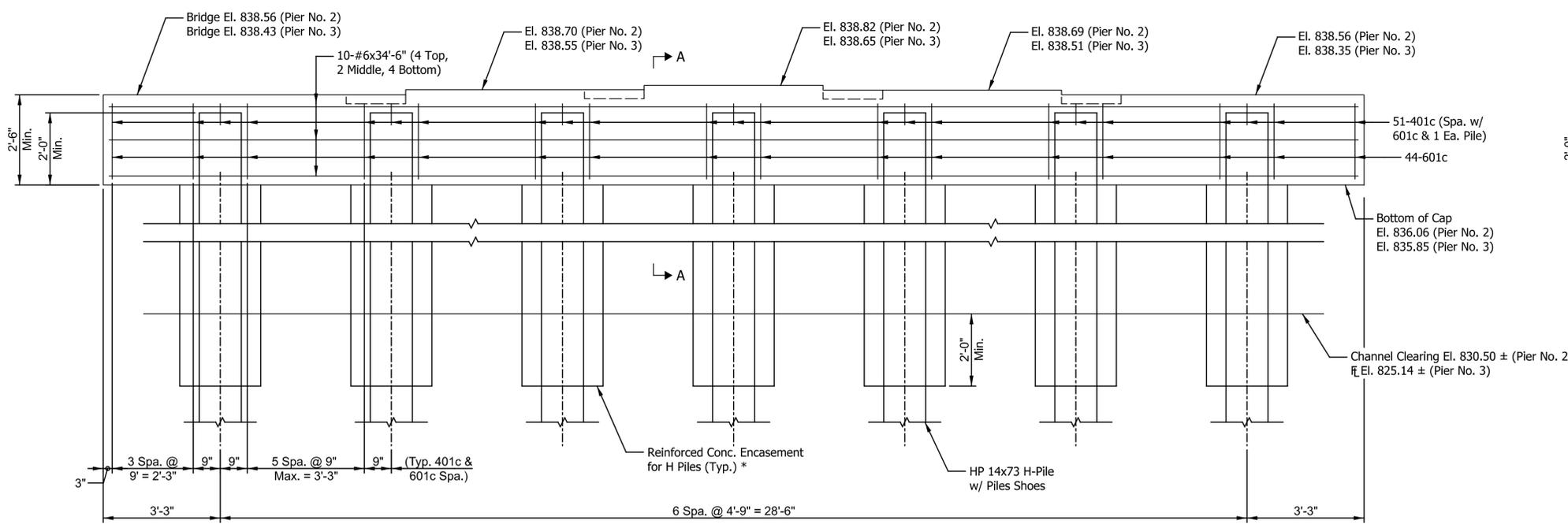
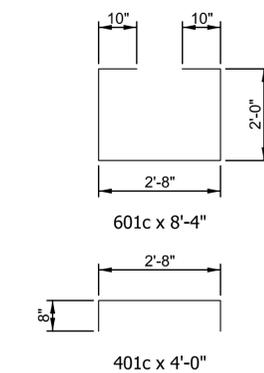
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PIER NO. 2
BILL OF MATERIALS
(PIER NO. 3 SAME)

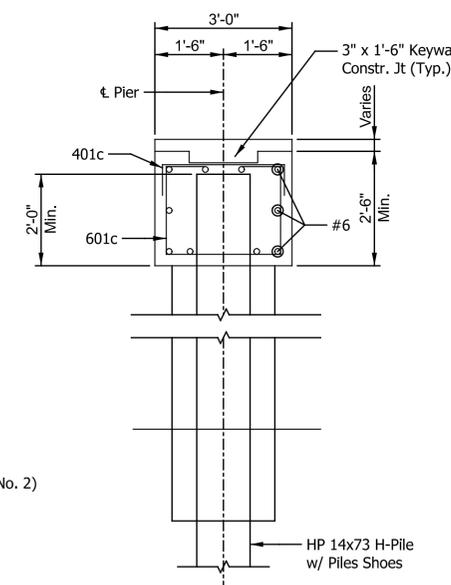
Plain Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
601c	44	8'-4"	
#6	10	34'-6"	
Total No. 6			1069
401c	51	4'-0"	
Total No. 4			137
Total Plain Reinforcing Steel			1206
Concrete			
Class "A" in Substructure			10.4 Cys.
Miscellaneous			
Surface Seal			240 Sft.
6-Piles, Steel "H", HP14x73			
x75'-0" Approximate			450 Lft.
1-Test Pile, Indicator, Production			
x 85'-0" Approximate			85 Lft.
Pile Shoe, HP 14x73			7 Each
Test Pile, Indicator, Restrike			1 Each



PLAN



ELEVATION



SECTION A-A

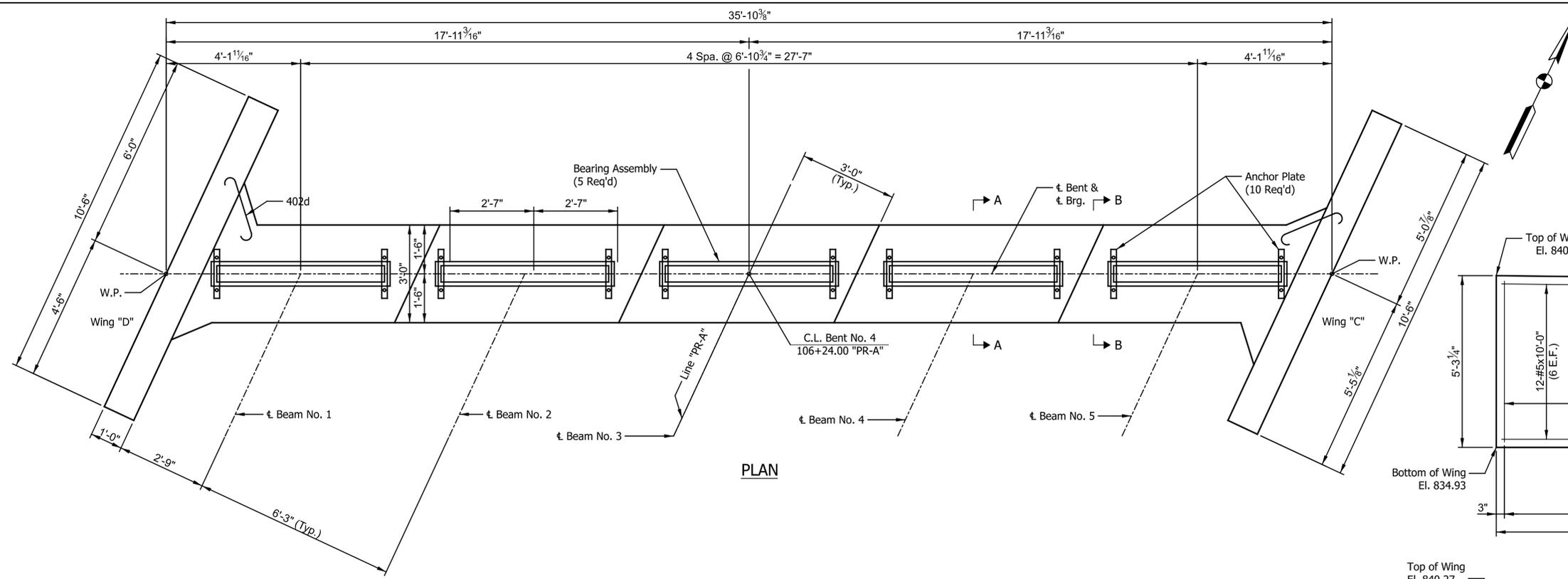
- NOTES:
- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be plain.
 - Cross-Hatched areas indicate limits of Expanded Polystyrene cut out to clear elastomeric bearing pads by 1/2" on all sides. For additional detail and treatment of keyway construction joint, see Sheet No. 16.
 - For Elastomeric Bearing Pad Details, see Sheet No. 16.
 - Surface Seal the top and vertical surfaces of pier cap.
 - For pier backfill limits, see Standard Drawing E211-BFIL-03.
 - * For Reinforced Concrete Encasement for Piles, See Standard Drawing E701-BPIL-01.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ TJL _____	DRAWN: _____ SJD _____	
CHECKED: _____ MAH _____	CHECKED: _____ DAD _____	

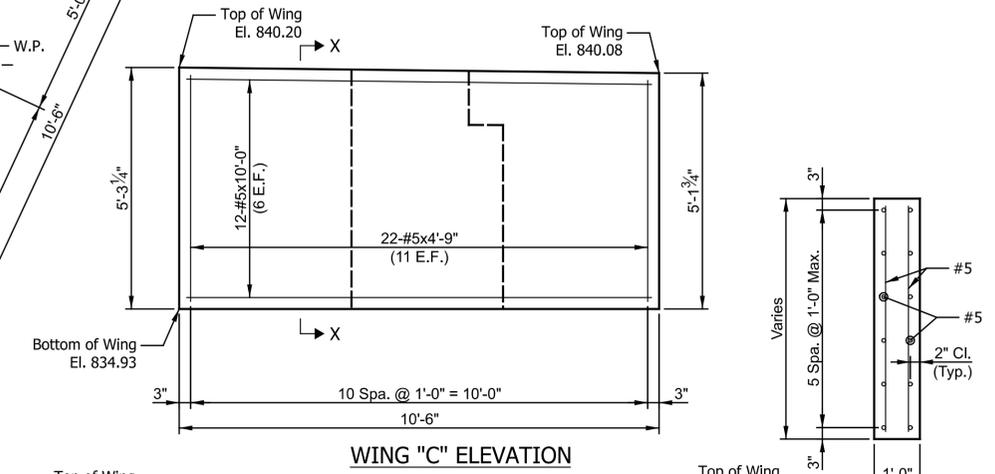
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS

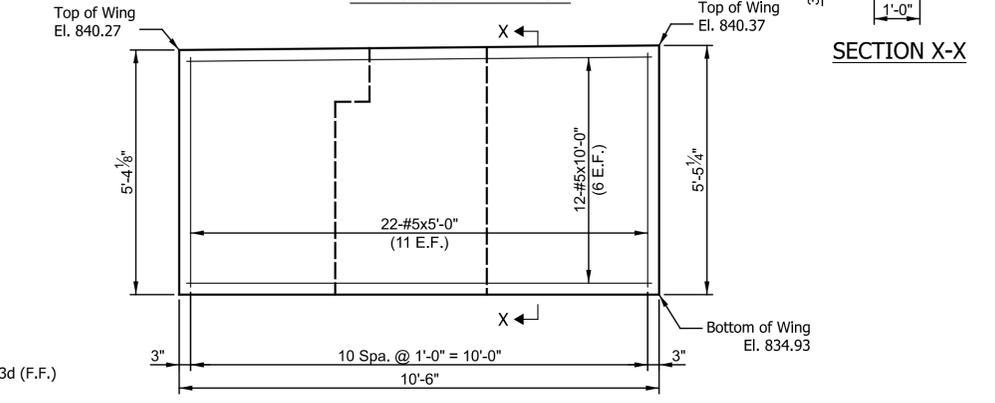
HORIZONTAL SCALE	BRIDGE FILE
1/2" = 1'-0"	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 31
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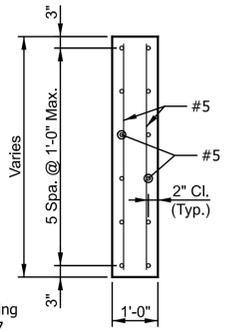
PLAN



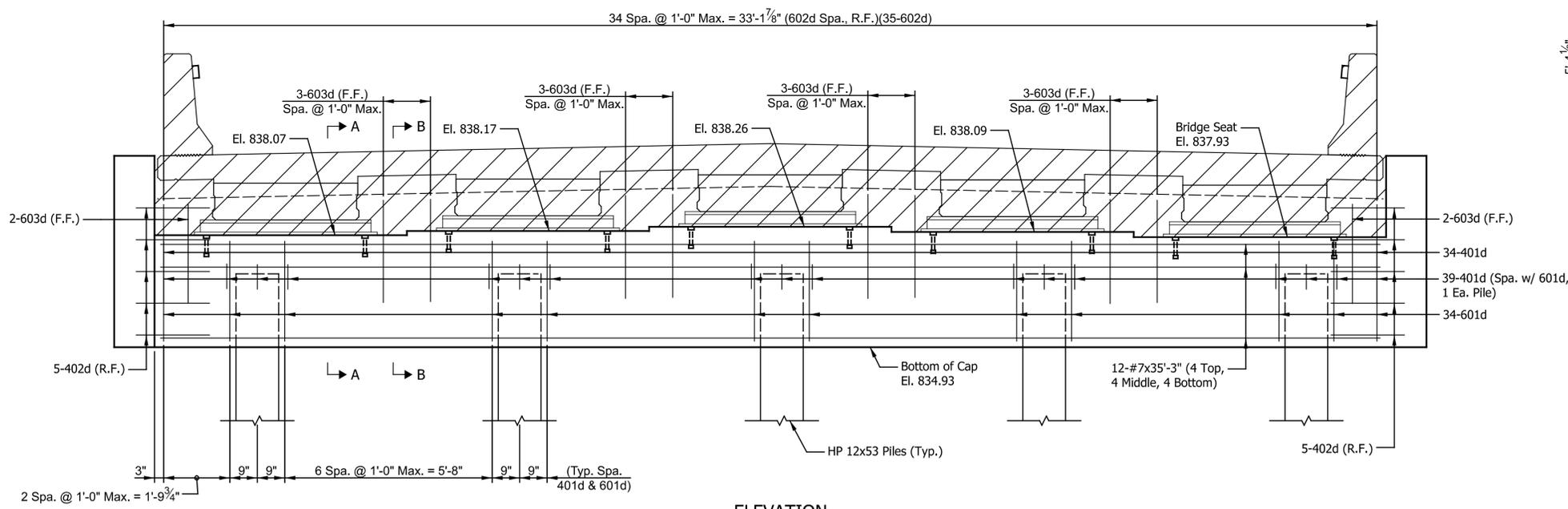
WING "C" ELEVATION



WING "D" ELEVATION



SECTION X-X

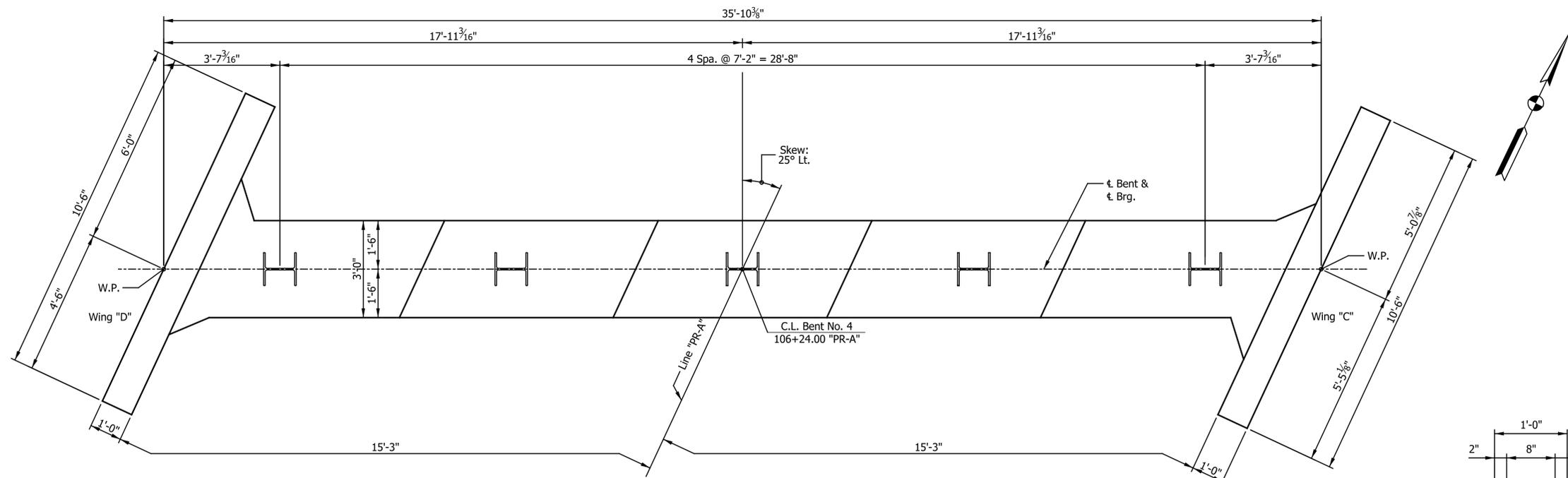


ELEVATION

- NOTES:
- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Hatched area to be poured with superstructure.
 - Surface Seal all exposed surfaces of wings.
 - Anchor Plates to be preset in concrete.
 - For additional details and Bill Of Materials, see Sheet No. 15.
 - For Anchor Plate Detail and Bearing Assembly Details, see Sheet No. 15.
 - For end bent backfill limits and drain pipe details, see Standard Drawing E211-BFIL-04.

RECOMMENDED FOR APPROVAL _____ DESIGNED: _____ TJL _____ CHECKED: _____ MAH _____	DESIGN ENGINEER _____ DATE _____ DRAWN: _____ SJD _____ CHECKED: _____ DAD _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
				VERTICAL SCALE	DESIGNATION
BENT NO. 4 DETAILS		2101745		SURVEY BOOK	SHEETS
		2101745		ELECTRONIC	14 of 31
		B-44276		CONTRACT	PROJECT
		2101745			

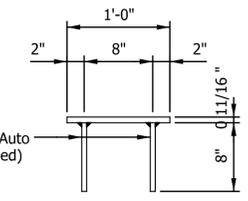
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PLAN

Note:
5-HP12x53 H-Piles with Pile shoes Required

#8 Reinf. Bars Or 7/8"Ø x 8" Auto Welded Anchor Studs (Headed) May Be Used. (No Paint)

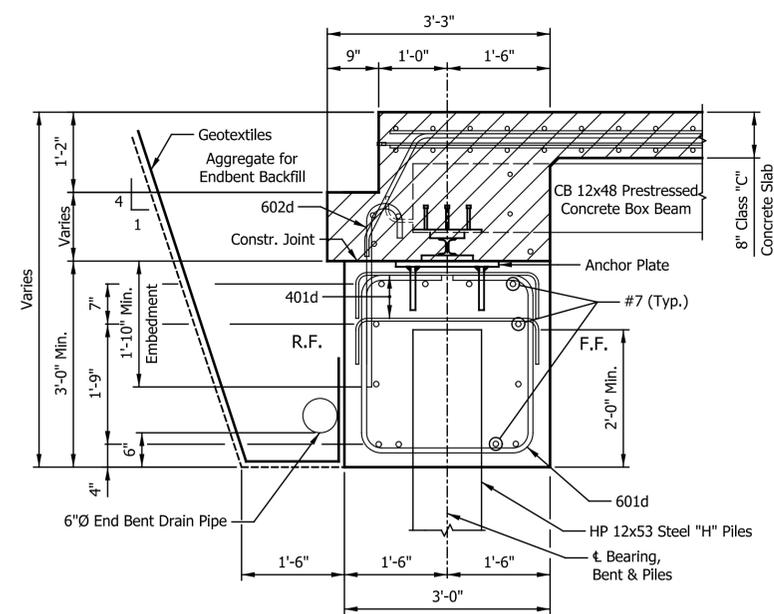


Note:
Setting tolerance of Anchor Plates, Level with to not more than 1/16" below top of concrete.

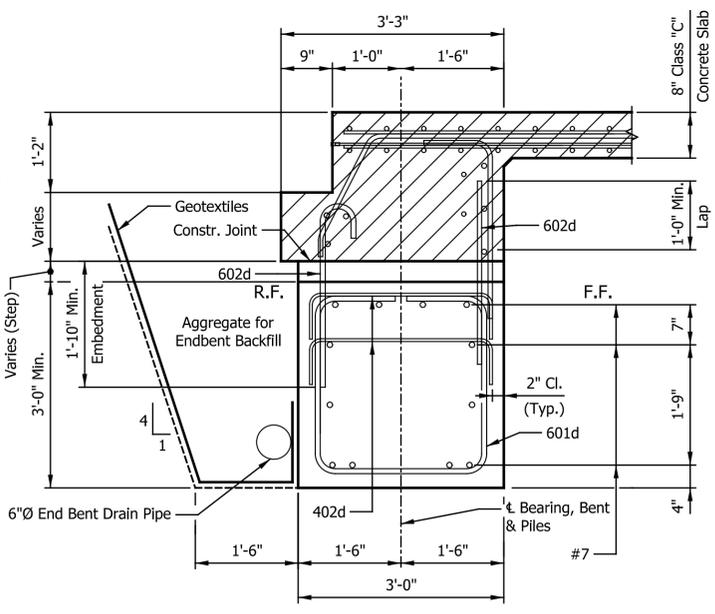
ANCHOR PLATE DETAIL
No Scale

BENT NO. 4 BILL OF MATERIALS

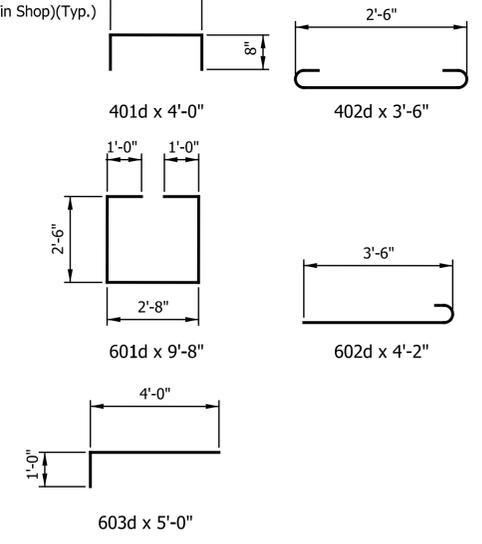
Epoxy Coated Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
#7	12	35'-3"	865
Total No. 7			
601d	34	9'-8"	807
602d	35	3'-8"	
603d	16	5'-0"	
Total No. 6			
#5	24	10'-0"	475
#5	22	5'-0"	
#5	22	4'-9"	
Total No. 5			
401d	73	4'-0"	219
402d	10	3'-6"	
Total No. 4			
Total Epoxy Coated Reinforcing Steel			2366
Concrete			
Class "C" in Substructure			16.0 Cys.
Miscellaneous			
Surface Seal			90 Sft.
4-Piles, Steel, "H", HP12x53 x 50'-0" Approximate			200 Lft.
1-Test Pile, Indicator, Production			
x 60'-0" Approximate			60 Lft.
Pile Shoe, HP 12x53			5 Each
Test Pile, Indicator, Restrike			1 Each
Anchor Plate			10 Each



SECTION A-A
Scale: 3/4" = 1'-0"

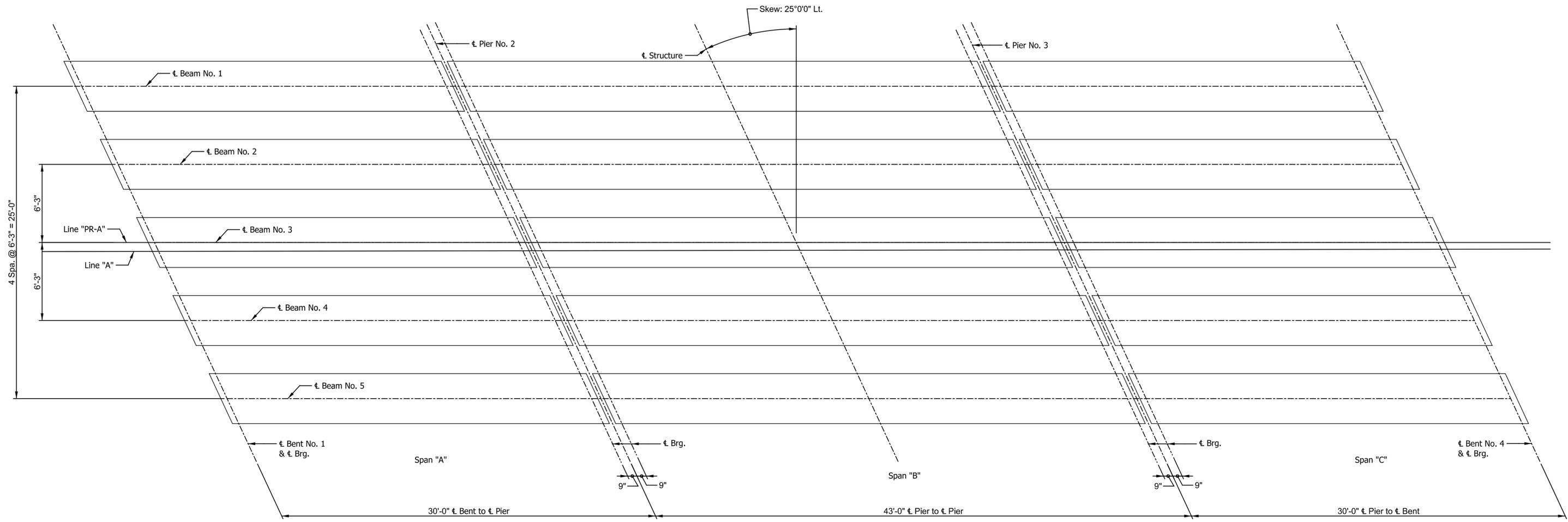


SECTION B-B
Scale: 3/4" = 1'-0"

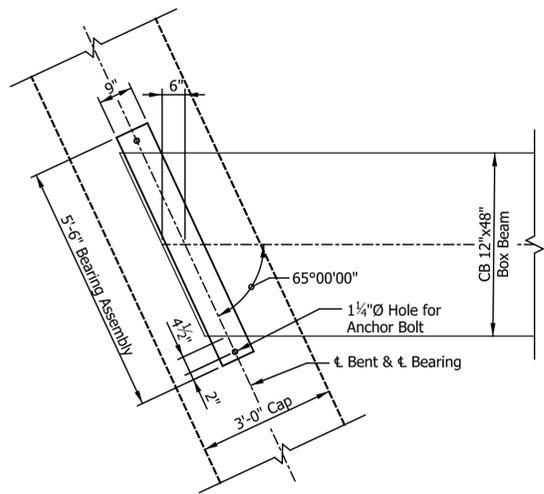


NOTES:
For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be epoxy coated.
Surface Seal all exposed surfaces of wings.
For Anchor Plate Detail and Bearing Assembly Details, see Sheet No. 12.
For end bent backfill limits and drain pipe details, see Standard Drawing E211-BFIL-04.

RECOMMENDED FOR APPROVAL _____ DESIGNED: _____ TJL _____ CHECKED: _____ MAH _____	DESIGN ENGINEER _____ DATE _____ DRAWN: _____ SJD _____ CHECKED: _____ DAD _____	INDIANA DEPARTMENT OF TRANSPORTATION BENT NO. 4 DETAILS	HORIZONTAL SCALE	BRIDGE FILE
			1/2" = 1'-0"	HANCOCK CO. BRIDGE 67
			VERTICAL SCALE	DESIGNATION
				2101745
			SURVEY BOOK	SHEETS
			ELECTRONIC	15 of 31
			CONTRACT	PROJECT
			B-44276	2101745

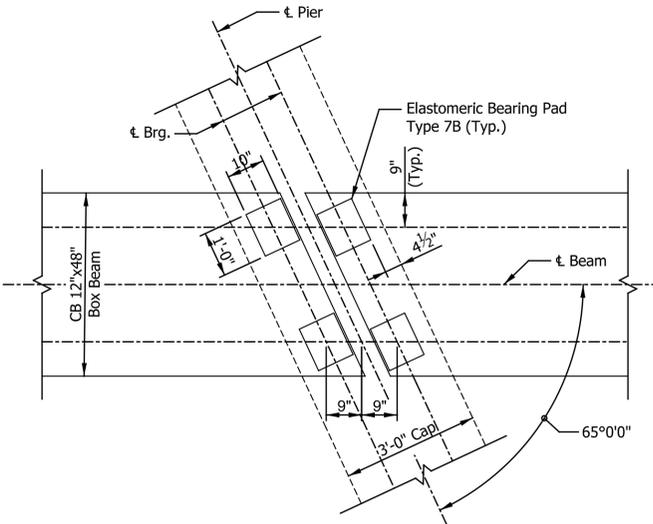


PLAN



BEAM PLACEMENT DETAILS @ BENT

Scale: 1/2" = 1'-0"



BEAM PLACEMENT DETAILS @ PIER

Scale: 1/2" = 1'-0"

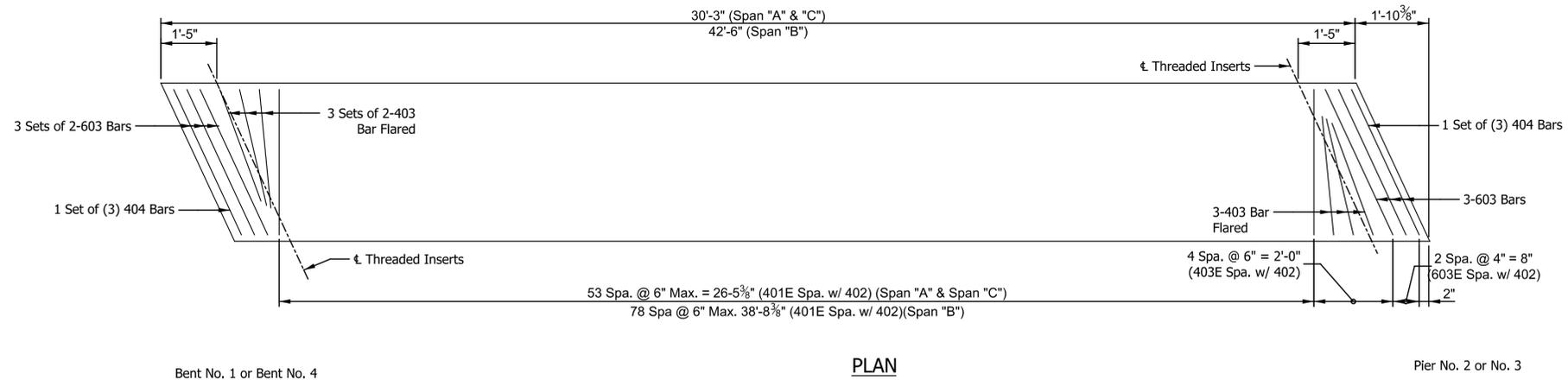
NOTES:
For Elastomeric Bearing Pad Details Type 7B, see Standard Drawing E726-BEBP-01.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ TJL _____	DRAWN: _____ SJD _____	
CHECKED: _____ MAH _____	CHECKED: _____ DAD _____	

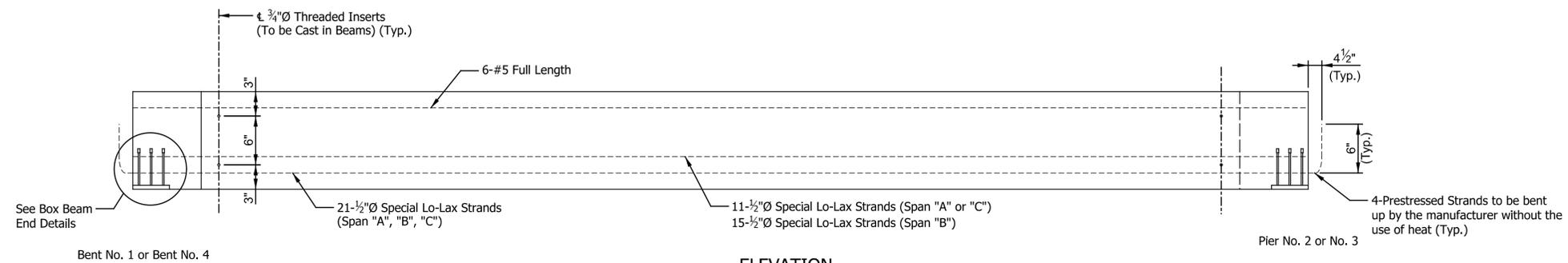
INDIANA
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0", UNLESS NOTED	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	16 of 31
CONTRACT	PROJECT
B-44276	2101745



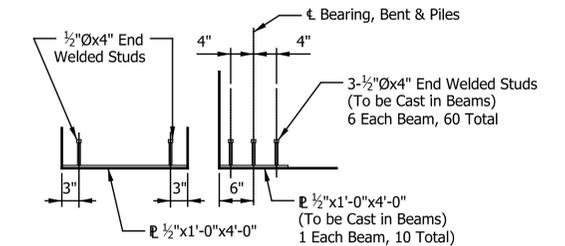
PLAN



ELEVATION

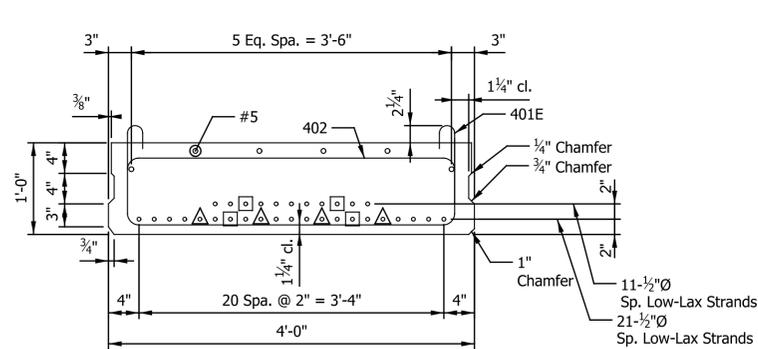
Residual Camber Table	Span 1	Span 2	Span 3
Initial Beam Camber	2.20"	3.74"	2.20"
Superimposed Dead Load Deflection	-0.37"	-1.50"	-0.37"
Residual Camber	1.83"	2.24"	1.83"

Initial Beam Camber equals upward deflection from prestressing force minus downward deflection from dead load of the beam in inches.



BEAM END DETAILS @ END BENTS

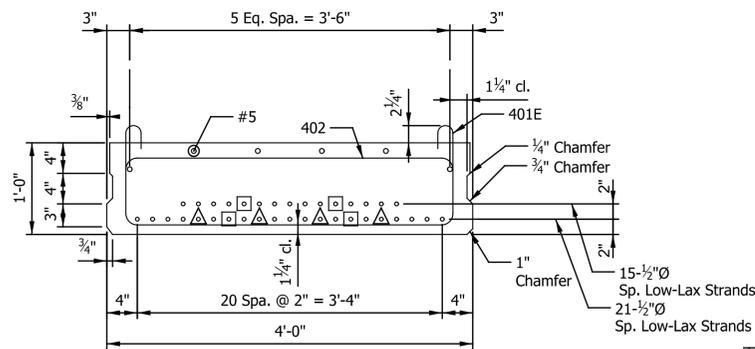
Scale: 3/4" = 1'-0"



TYPICAL SECTION THRU BOX BEAM

Span "A" & "C" Shown
Scale: 1" = 1'-0"

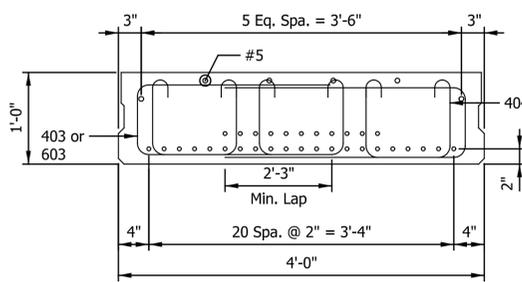
- △ Debond 3' @ End
- Debond 6' @ End



TYPICAL SECTION THRU BOX BEAM

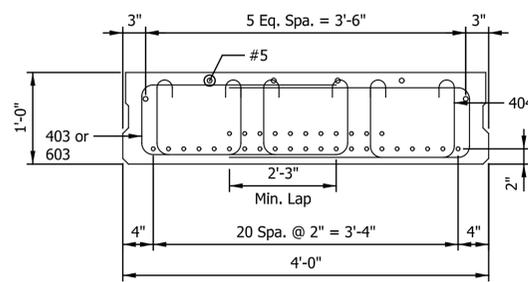
Span "B" Shown
Scale: 1" = 1'-0"

- △ Debond 3' @ End
- Debond 6' @ End



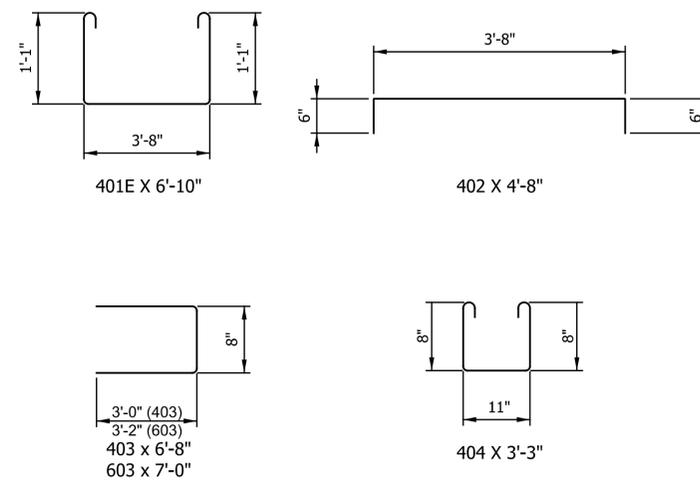
TYPICAL END REINFORCEMENT SECTION

Span "A" & "C" Shown
Scale: 1" = 1'-0"



TYPICAL END REINFORCEMENT SECTION

Span "B" Shown
Scale: 1" = 1'-0"



NOTES:

Beams shall be cast a minimum of 90 days before the deck is poured.

Beams are to be supported at bearing points while stored and while transporting to the job site.

Top of beams are to be scored transversely at about 3" centers with a pointed tool.

For tolerances of prestressed beams, see Standard Drawing E707-BPBF-03.

For reinforcing bar notes, see Standard Drawing E703-BRST-01.

Reinforcing bars designated (E) shall be epoxy coated.

The concrete strength shall be 6,400 psi minimum at release and 8,000 psi minimum at 28 days.

1/2" Ø (As = 0.167 si) (270 ksi) Special Lo-Lax Strands to be pulled to 33,820 lbs. each.

All mild reinforcing steel to be Grade 60.

Sealer on the outside face of exterior beams to be done by the fabricator in the shop. Do not rub.

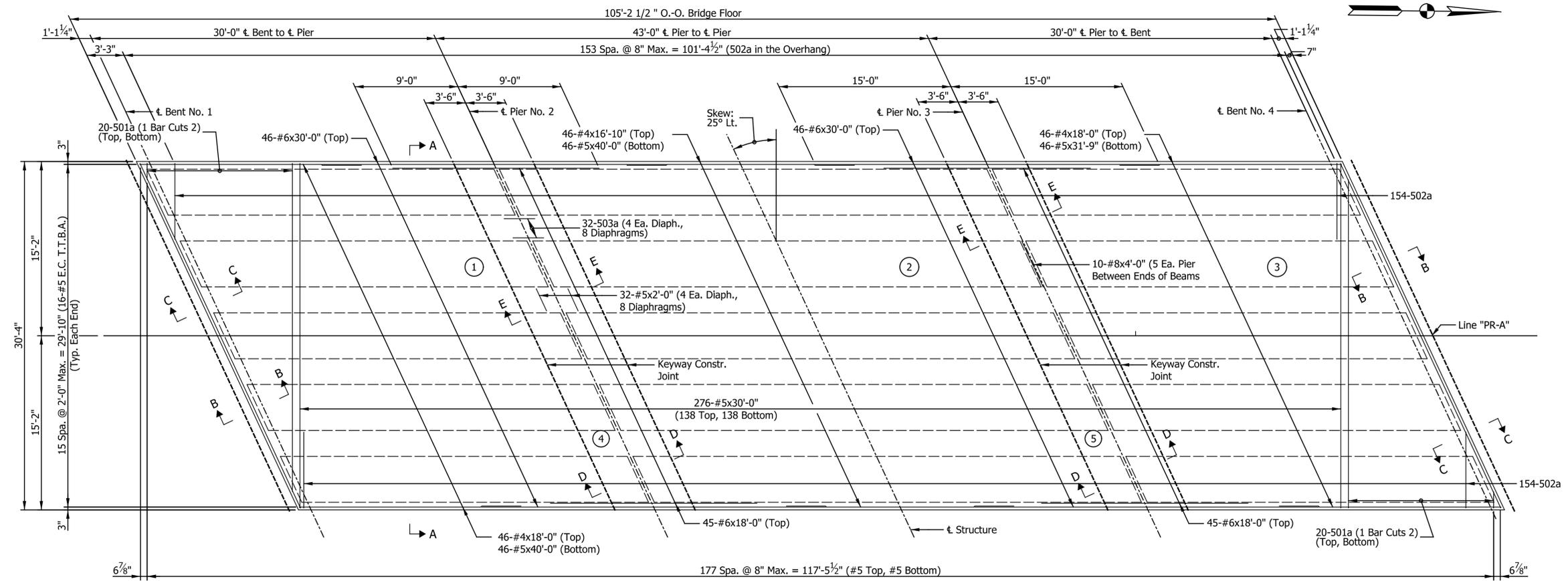
* 3/4" Ø Threaded Dowels to be supplied by the beam manufacturer.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TJL	DRAWN: SJD	
CHECKED: MAH	CHECKED: DAD	

INDIANA DEPARTMENT OF TRANSPORTATION

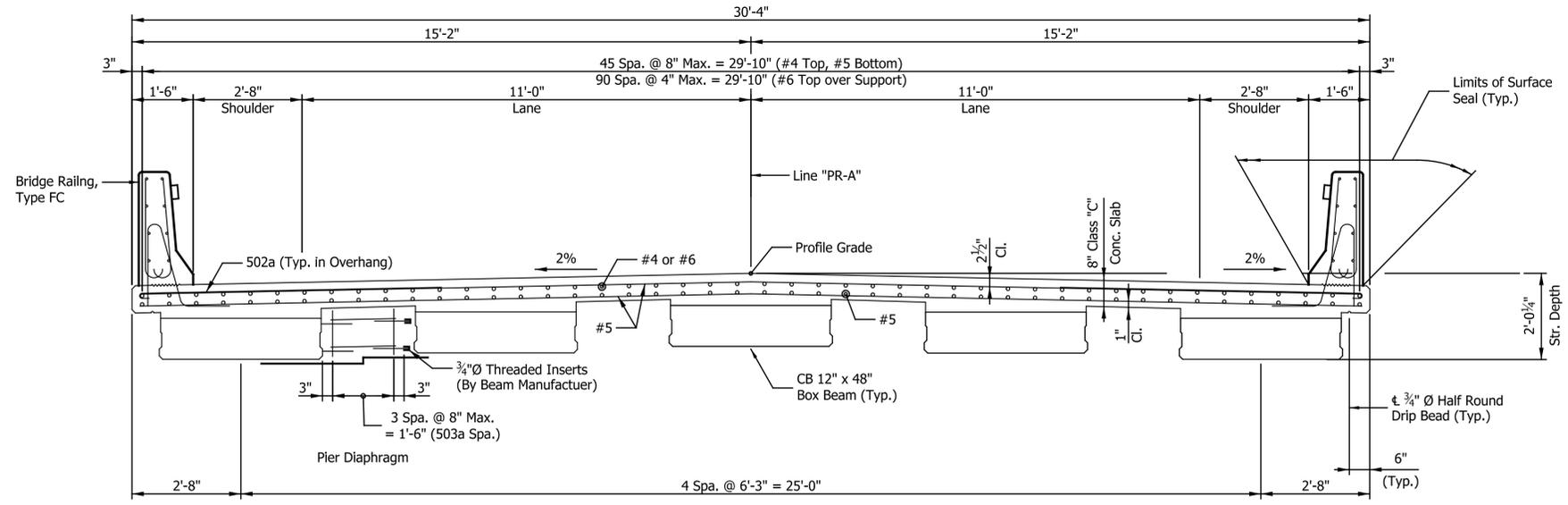
BEAM DETAILS

HORIZONTAL SCALE	BRIDGE FILE
1/2" = 1'-0", UNLESS NOTED	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	17 of 31
CONTRACT	PROJECT
B-44276	2101745



PLAN

Min. Lap	
#4	1'-11"
#5	3'-6"
#6	2'-10"



SECTION A-A
Scale: 1/2" = 1'-0"

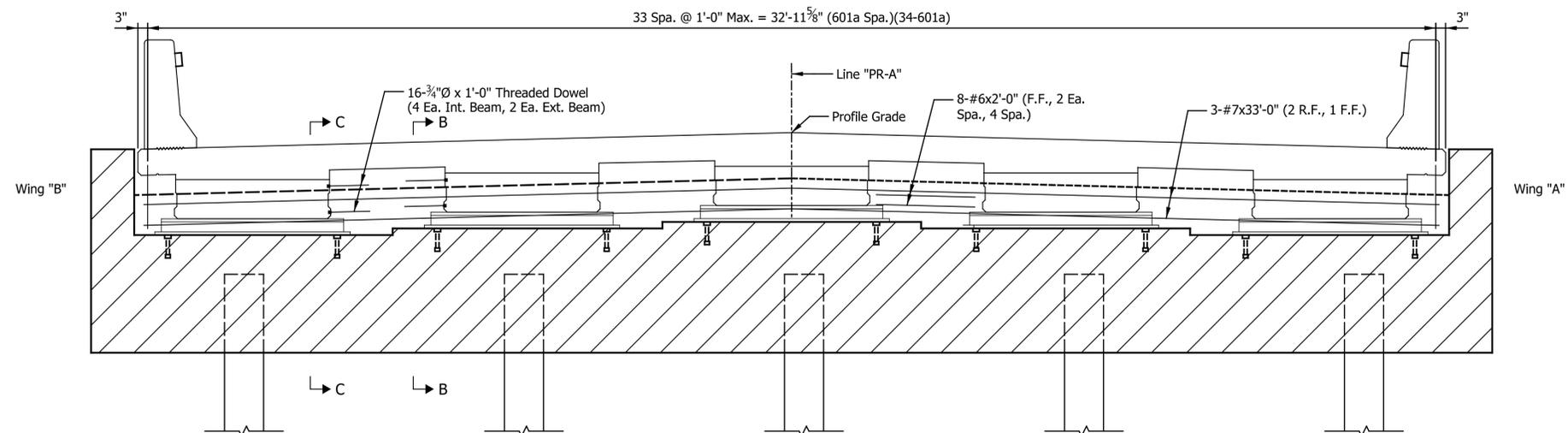
- NOTES:
- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Screed data will be furnished upon request.
 - Suitable restraint shall be provided to prevent the rotation of the beams, particularly the outside beam, from construction loads, such as the weight of the concrete deck, finishing machine, forms, etc.
 - For Sections B-B, C-C, D-D and E-E, see Sheet No. 20.
 - For additional details and Bill Of Materials, see Sheet No. 21.
 - (X) Indicates concrete pour number and sequence of pours.
 - As an alternate, the Contractor may elect to pour the deck and diaphragms as one continuous pour from one end to the other. This will be allowed provided the following criteria is met:
 - The minimum req'd pour rate shall be 40 Cys./Hr.
 - Each Span (Deck + Prior pier diaphragm) shall be completed within 3 1/2 Hrs. from the time the concrete within that span is discharged.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ TJL _____	DRAWN: _____ SJD _____	
CHECKED: _____ MAH _____	CHECKED: _____ DAD _____	

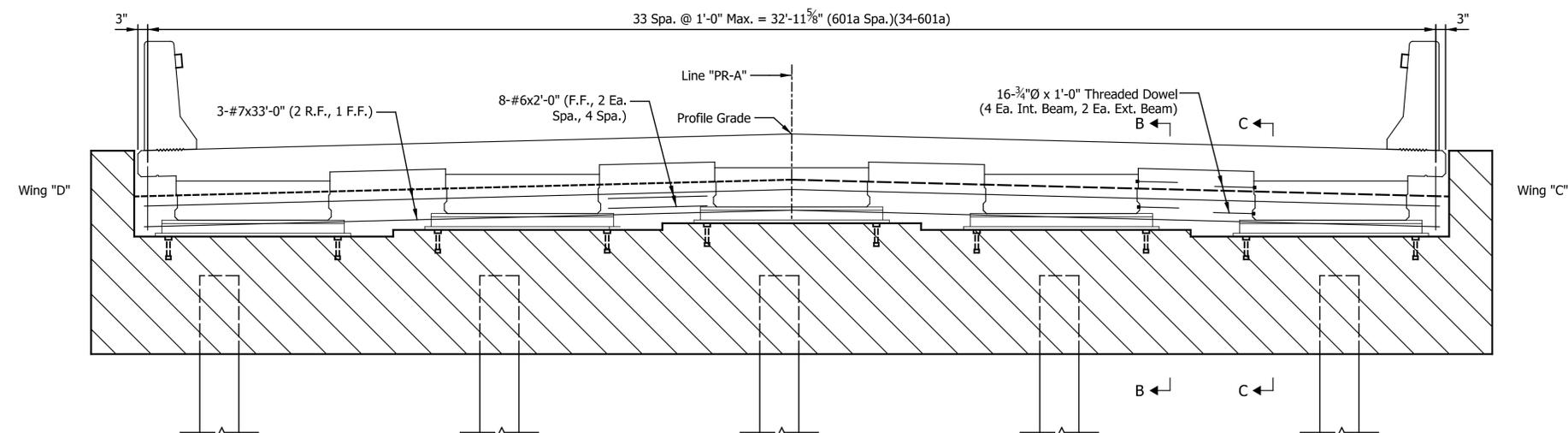
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0", UNLESS NOTED	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	18 of 31
CONTRACT	PROJECT
B-44276	2101745



ELEVATION AT BENT NO. 1



ELEVATION AT BENT NO. 4

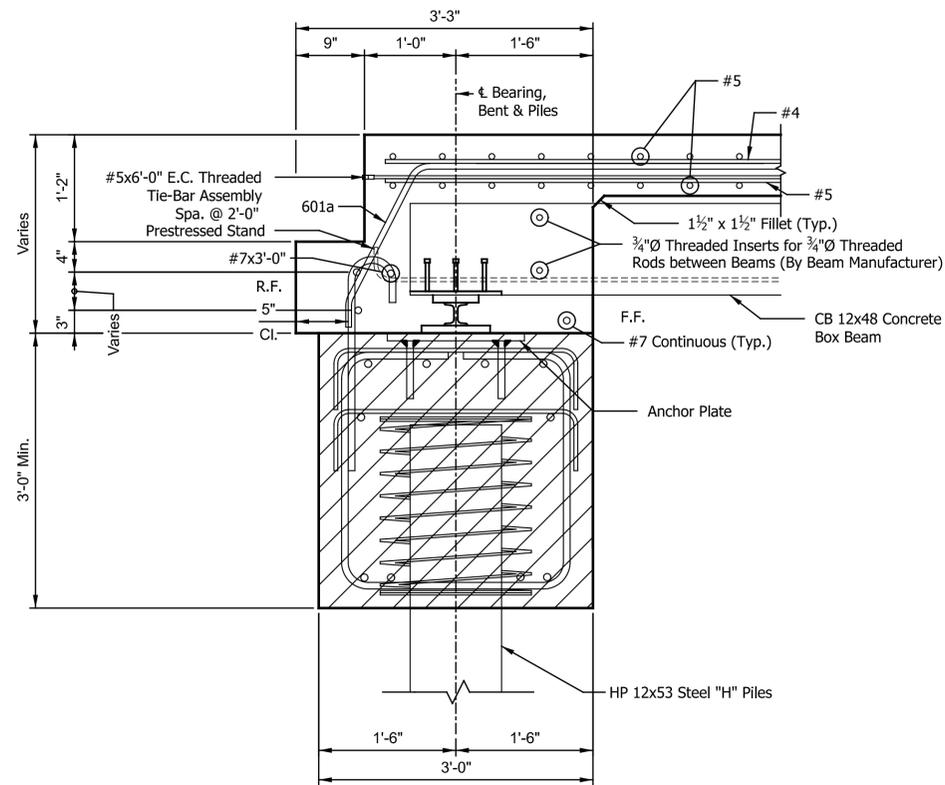
- NOTES:
- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
 - All reinforcing steel to be epoxy coated.
 - Hatched area to be poured with substructure.
 - For Sections B-B and C-C, see Sheet No. 20.
 - For additional details and Bill Of Materials, see Sheet No. 21.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ TJL _____	DRAWN: _____ SJD _____	
CHECKED: _____ MAH _____	CHECKED: _____ DAD _____	

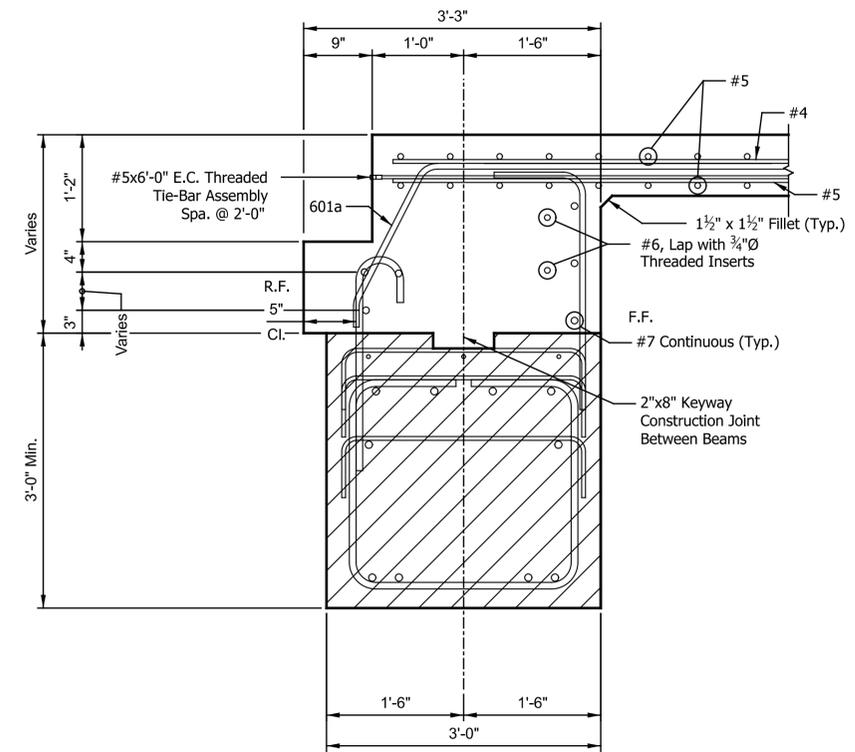
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

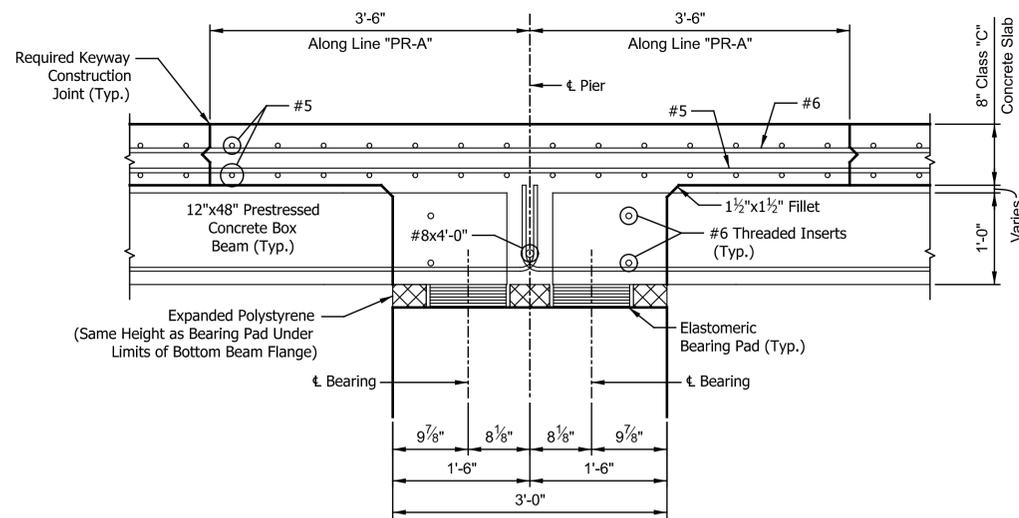
HORIZONTAL SCALE	BRIDGE FILE
1/2" = 1'-0"	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	19 of 31
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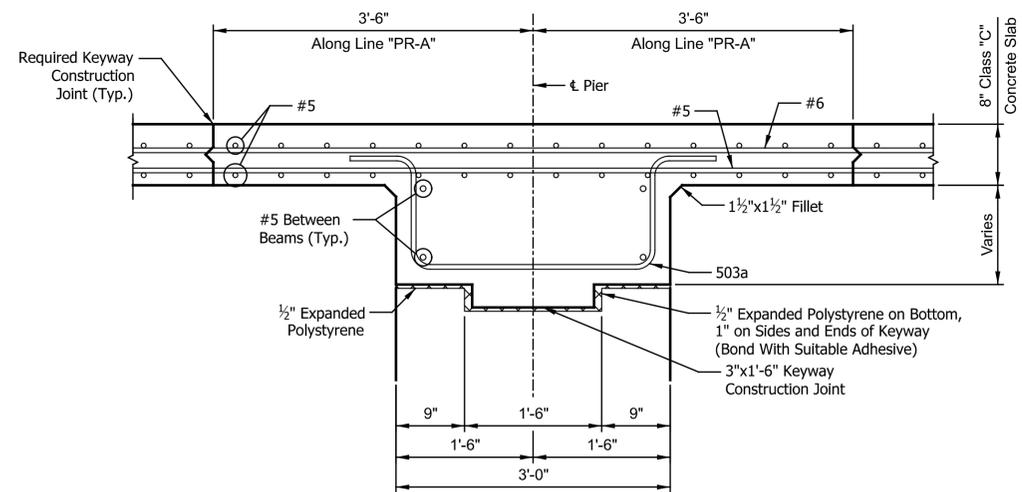
SECTION B-B
Scale: 1" = 1'-0"



SECTION C-C
Scale: 1" = 1'-0"



SECTION D-D
Scale: 1" = 1'-0"



SECTION E-E
Scale: 1" = 1'-0"

NOTES:

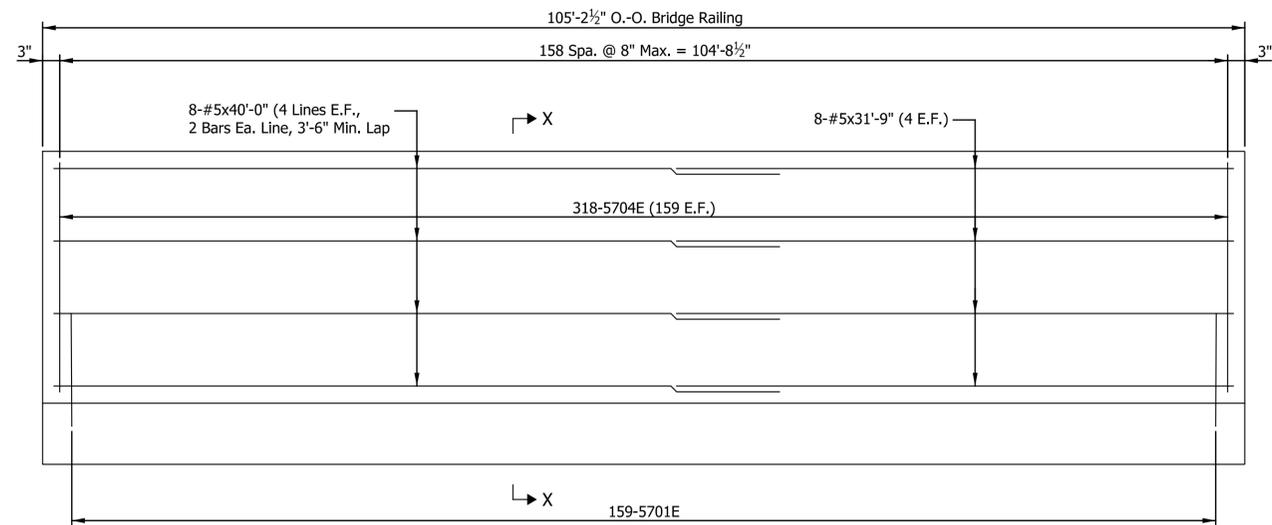
- For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
- All reinforcing steel to be epoxy coated.
- Hatched area to be poured with substructure.
- For location of Sections B-B, C-C, D-D and E-E, see Sheet No. 18.
- For additional details and Bill Of Materials, see Sheet No. 21.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: TJL	DRAWN: SJD	
CHECKED: MAH	CHECKED: DAD	

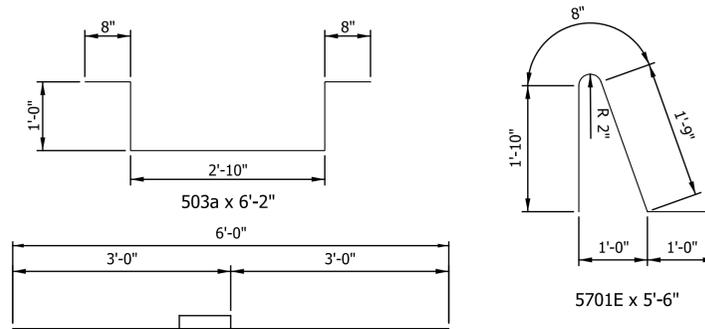
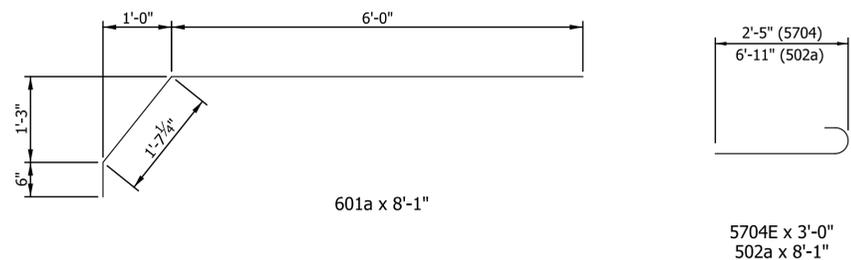
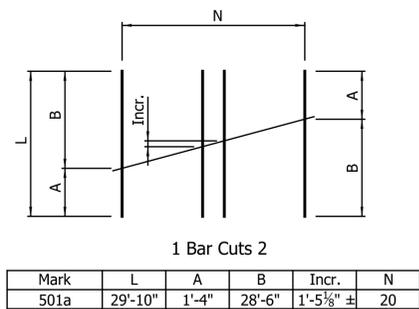
INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

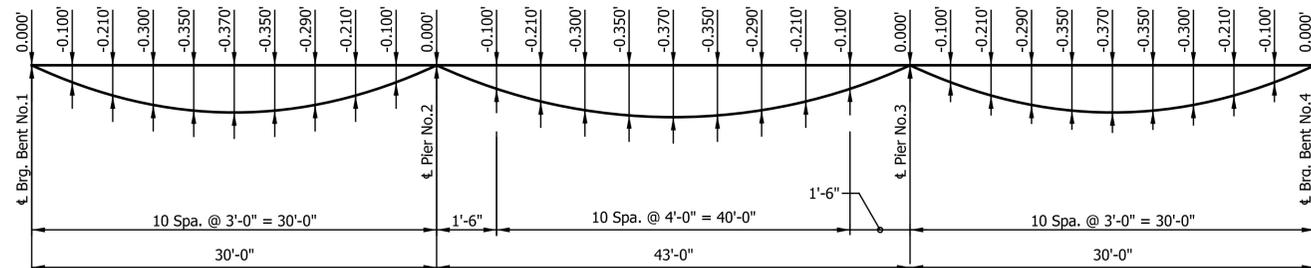
HORIZONTAL SCALE	BRIDGE FILE
1/2" = 1'-0", UNLESS NOTES	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	20 of 31
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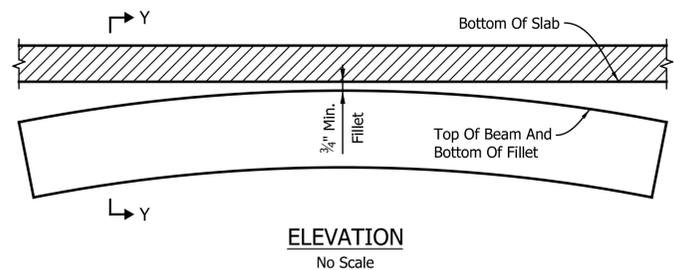
NORTH COPING RAILING ELEVATION
South Coping same by opposite hand



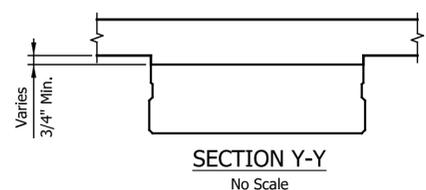
#5x6'-0" Epoxy Coated Threaded Tie Bar Assembly



CONCRETE DEAD LOAD DEFLECTIONS (Feet)
No Scale



ELEVATION
No Scale



SECTION Y-Y
No Scale

NOTE :
Bridge Seat Elevations were calculated using design camber and dead load deflection of slab (Residual Beam Camber) with top of beam at a minimum of 3/4" below the bottom of slab elevation at centerline of span.

SUPERSTRUCTURE BILL OF MATERIALS

Epoxy Coated Reinforcing Steel			
Size And Mark	No. of Bars	Length (Feet)	Weight (Lbs.)
#8	10	4'-0"	
Total No. 8			107
#7	6	33'-0"	
Total No. 7			405
601a	68	8'-1"	
#6	92	30'-0"	
#6	90	18'-0"	
#6	16	2'-0"	
Total No. 6			7453
501a	40	29'-10"	
502a	308	8'-1"	
503a	32	6'-2"	
5701E	318	5'-6"	
5704E	636	3'-0"	
#5	108	40'-0"	
#5	276	30'-0"	
#5	62	31'-9"	
#5	32	2'-0"	
Total No. 5			23124
#4	92	18'-0"	
#4	46	16'-10"	
Total No. 4			1624
Total Epoxy Coated Reinforcing Steel			32713
Concrete			
Class "C" in Superstructure			
Pour No. 1			27.0 Cys.
Pour No. 2			29.8 Cys.
Pour No. 3			27.0 Cys.
Pour No. 4			8.5 Cys.
Pour No. 5			8.5 Cys.
Total Class "C" in Superstructure			100.8 Cys.
Railings, Concrete, FC			20.1 Cys.
Miscellaneous			
Surface Seal			1390 Sft.
Box Beams, CB 12x48			515 Lft.
Threaded Tie Bar Assemblies			32 Each
Barrier Delineators			6 Each

NOTES:
For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
All reinforcing steel to be epoxy coated.
For section thru railing and additional railing details, see Standard Drawings E706-BRSF-01 thru -03.
For Section X-X, See Standard Dwg. E 706-BRSF-01

RECOMMENDED FOR APPROVAL _____ DESIGNED: TJL CHECKED: MAH	DESIGN ENGINEER _____ DRAWN: SJD CHECKED: DAD	INDIANA DEPARTMENT OF TRANSPORTATION SUPERSTRUCTURE DETAILS	HORIZONTAL SCALE	BRIDGE FILE
			NO SCALE	HANCOCK CO. BRIDGE 67
			VERTICAL SCALE	DESIGNATION
				2101745
			SURVEY BOOK	SHEETS
			ELECTRONIC	21 of 31
			CONTRACT	PROJECT
			B-44276	2101745

Ind:\s\cd\chrc\Indiana_Shafe.tbl

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE				RAILING CONCRETE, FC	CONC. BRIDGE RAILING TRAN., TFC	RAILING, PS-2	GEOTEXTILE FOR PAVEMENT TYPE 2B	REINF. CONC. BRIDGE APPR., 12"	SUBBASE FOR PCCP	REINF. STEEL	EPOXY COATED REINF. STEEL	STRUC-TURAL STEEL ***	ANCHOR PLATE	PILES										EXP. JOINT TYPE SS	CONC. STR. MEMBERS BOX BEAM CB 12X48	BEARING ASSEMBLY, ELASTO-MERIC	BARRIER DELIN-EATOR	LONGITU-DINAL GROOVING	CONDUIT, PVC, 4"	SURFACE SEAL *	E.C. THREADED TIE BAR ASSEMBLY	FIELD DRILLED HOLES	CAST IRON , GRATES, BASINS & FITTINGS	INTEGRAL CONC. CURB																			
	CLASS C	CLASS A	CLASS B	CLASS C											EPOXY COATED SHELLS	TEST, INDICATOR, PRODUCTION	PILE, STEEL H, HP 12X53	PILE, STEEL H, HP 14X73	SHOE, HP 12X53	SHOE, HP 14X73	TEST PILE, INDICATOR, RESTRIKE	CORED HOLE IN ROCK, 18"	NO.	LFT.												NO.	LFT.	EACH	EACH	EACH	NO.	LFT.	LFT.	LFT.	LFT.	EACH	EACH	SYS.	LFT.	SFT.	EACH	EACH	LBS.	SFT.
	CYS.	CYS.	CYS.	CYS.											CYS.	NO.	LFT.	NO.	LFT.	NO.	LFT.	NO.	LFT.	EACH												EACH	EACH	NO.	LFT.	LFT.	LFT.	LFT.	LFT.	LFT.	EACH	EACH	SYS.	LFT.	SFT.	EACH	EACH	LBS.	SFT.	
SUPERSTRUCTURE	100.8				20.1						32713												515			6	320		1390	32																								
SUBSTRUCTURE																																																						
Bent No. 1				16							2360		10																																									
Pier No. 2		10.4									1206																																											
Pier No. 3		10.4									1206																																											
Bent No. 4				16							2366		10																																									
R.C. BRIDGE APPROACHES																																																						
Bent No. 1						2		87	87	22	4982															2	82		200																									
Bent No. 4						2		87	87	22	4982															2	82		200																									
TOTALS	100.8	20.8		32	20.1	4		174	174	44	2412	47403	20										515		40	10	484		2450	32																								

PAVEMENT QUANTITIES AND APPROACH TABLE

LT/RT	LOCATION LINE "PR-A"	DESCRIPTION	MAINLINE 9.5 mm, HMA SURFACE	INTERMEDIATE 19.0 mm, MAINLINE HMA	HMA BASE 25.0 mm, MAINLINE	ASPHALT FOR TACK COAT	CRACKS IN ASPHALT PAVEMENT, FILL	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	MILLING, TRANSITION	SUBGRADE TREATMENT, TYPE IC	COMPACTED AGGREGATE NO. 53	COMPACTED AGGREGATE NO. 8
			165 LBS./SYD.	275 LBS./SYD.	660 LBS./SYD.	SYS.	TONS	LFT.	LFT.	SYS.	SYS.	TONS	CYS.
	STATION												
	102+90.00 to 103+30.00		9	2	5	107	0.1	120	120	94	32	13	
	103+30.00 to 104+93.02		43	70	166	1000		490	490		573	71	41
	106+51.98 to 108+15.00		42	70	166	1000		490	490		573	71	41
	108+15.00 to 108+55.00		9	2	5	107	0.1	120		94	32	9	
TOTALS			103 TONS	144 TONS	342 TONS	2214	0.2	1220	980	188	1210	164	82

PAVED SIDE DITCH, RIPRAP DITCH AND SODDING SUMMARY

LT. OR RT.	STATION TO STATION	PAVED SIDE DITCH (LIN. FT.)						SODDING (SQ. YDS.)				RIPRAP						
		TYPE	PAY LENGTH	NO. OF LUGS	PAY LENGTH	CUT OFF WALLS	PAY LENGTH	TOTAL PAY LENGTH	FOR PSD	FOR DITCHES	SHOULDERS	OTHER	TOTAL SOD	REVTMENT TONS	GEOTEXTILES SQ. YD.			
LT.	107+00.0 to 108+26.0															76		
	DRAINAGE TURNOUTS															34	92	119
TOTALS																		

STRUCTURE SUMMARY

STRUCTURE NUMBER	LOCATION	LEFT	RIGHT	CROSS	SIZE	DESCRIPTION	LENGTH	SKEW	FLOW LINE			CONC. CL. A IN STRS.	STRUCTURE BACKFILL TYPE 2	METHOD OF BACKFILL	THICKNESS		VELOCITY	RIPRAP	PIPE END SECTION	AUTOMATIC DRAINAGE GATE	REMARKS
									COVER	UP STREAM	DOWN STREAM				STEEL *	ALUM. *					
									FT.	ELEV.	ELEV.				CU. YDS.	CU. YDS.					
101	105+99.37 to 107+00.00 "PR-A"	X			30	3	PIPE	101			831.25	830.50		45				0	2	1	
Total Of Reinf. Steel Carried To "Structure Quantities"																					

TEMPORARY EROSION AND SEDIMENT CONTROL SUMMARY

LT. OR RT.	STATION TO STATION	TEMPORARY FILTER SOCK, LFT.	DRAINAGE BARRIER LIN. FT.	INTERCEPTOR DITCH LIN. FT.	SLOPE DRAIN LIN. FT.	STRAW BALE DITCH CHK LIN. FT.	RIPRAP DITCH CHK LIN. FT.	SEDIMENT TRAP CU. YDS.	SEDIMENT CU. YDS. BASIN	CULVERT PIPE PROTECTION EACH	DROP INLET PROTECTION EACH	EACH PROTECTION CURB INLET
	103+30.00 to 104+93.02	580										
	106+51.98 to 108+15.00	545										
TOTALS		1125										

RESET MAILBOX TABLE

LOCATION	LEFT	RIGHT	SINGLE	DOUBLE
TOTALS				

REVISIONS

DATE	ITEM

GUARDRAIL SUMMARY TABLE

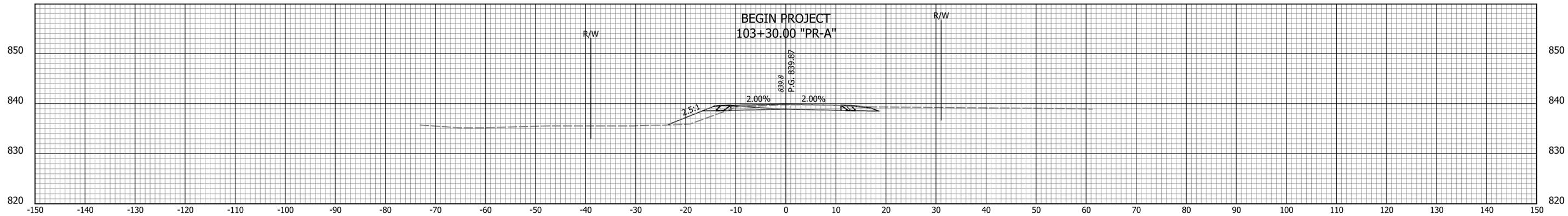
LOCATION		LT. OR RT.	W-BEAM GUARDRAIL LENGTH				FLARE RATE GUARDRAIL	GUARDRAIL TRANSITION	GUARDRAIL END TREATMENT	CURVED W-BEAM GUARDRAIL SYSTEM				GUARDRAIL REMOVE	RESET GUARDRAIL	REMARKS
FROM STATION	TO STATION		AT 6" SPA. STANDARD POST	STANDARD POST AT SPA.	STANDARD POST AT SPA.	NESTED GUARDRAIL				TERMINAL SYSTEM		CONNECTOR SYSTEM				
LIN. FT.	LIN. FT.		LIN. FT.	LIN. FT.	LIN. FT.	TYPE				EACH	TYPE	EACH	TYPE			
104+26.59 "PR-A"	104+97.86 "PR-A"	LT.	31.25				MGS	1	OS	1					51	
104+01.83 "PR-A"	105+10.60 "PR-A"	RT.	68.75				MGS	1	OS	1					50	
106+34.40 "PR-A"	107+36.92 "PR-A"	LT.	62.50				MGS	1	OS	1					51	
106+47.14 "PR-A"	107+18.41 "PR-A"	RT.	31.25				MGS	1	OS	1					50	
TOTALS			193.75					4		4					202	

MONUMENT TABLE

LOCATION	TYPE				SECTION CORNER
	A	B	C	D	
103+30.00 "PR-A"		1			
108+15.00 "PR-A"		1			
TOTALS		2			

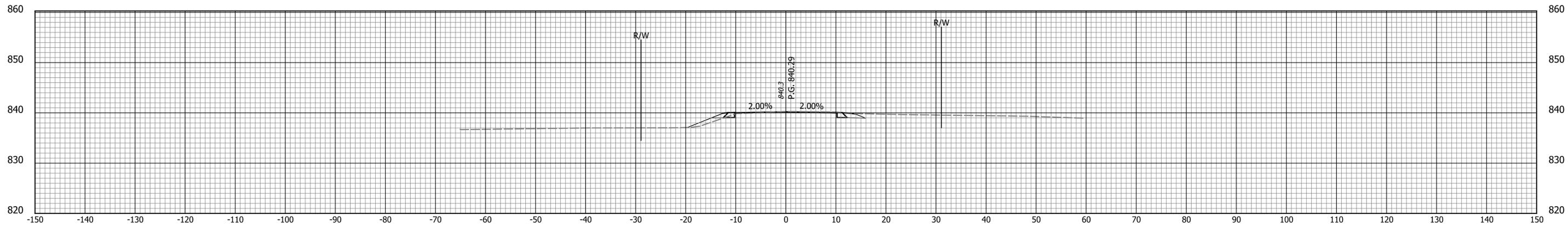
NOTES :
 Weight of Spirals includes weight of 1½ extra turns top and bottom.
 Spacers and 1½ turns at laps included in cost of Spiral.
 * Estimated Quantity, to be paid for as "LSUM".
 ** If the Contractor elects to use metal pipe, the thickness shall be as shown in the Approach Quantity Table.
 *** The weight of structural steel is approximate only, and it shall be the Contractor's responsibility to determine the weight on which he bases his bid.
 For Test Bar Samples, see Bridge Standard 703-BRST-01.

DATE	REVISION	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
					BRIDGE SUMMARY OF QUANTITIES		NONE	HANCOCK CO. BRIDGE 67
							VERTICAL SCALE	DESIGNATION
							NONE	2101745
							SURVEY BOOK	SHEETS
							ELECTRONIC	23 of 31
							CONTRACT	PROJECT
							B-44276	2101745



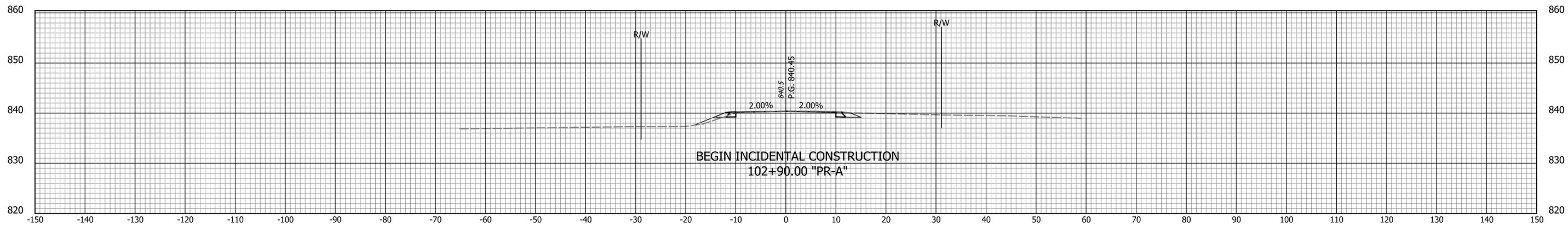
103+30

Ac = 25.2 Af = 12.2
Vc = 19 Vf = 9



103+00

Ac = 8.1 Af = 4.2
Vc = 3 Vf = 1



102+90

Ac = 7.8 Af = 2.4
Vc = 0 Vf = 0

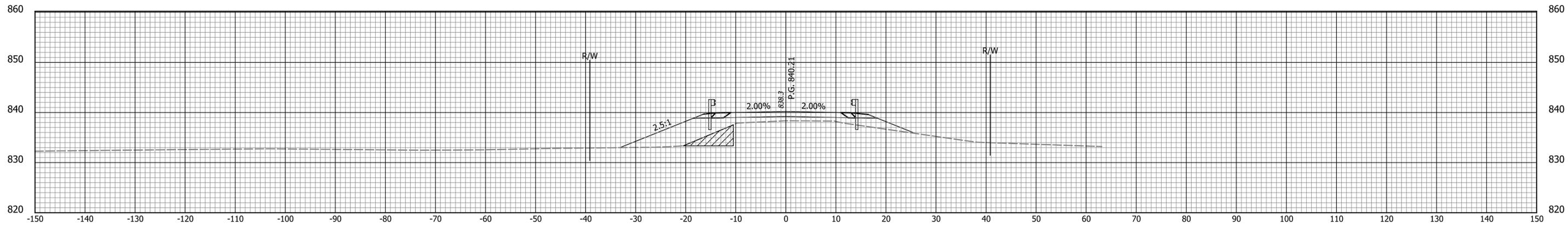
DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ TMT _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

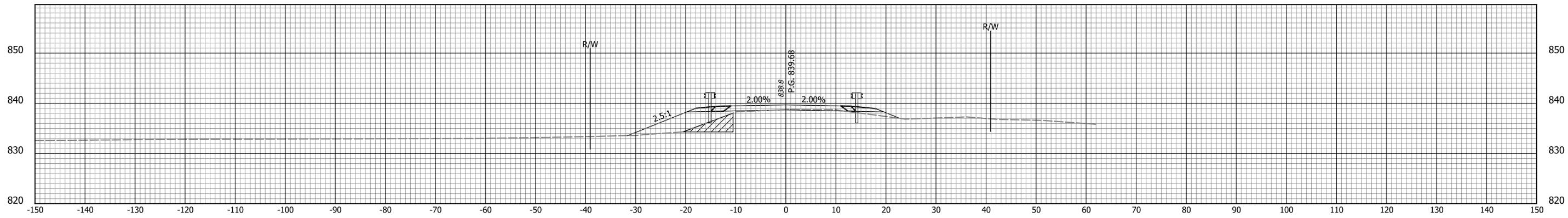
**CROSS SECTIONS
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE HANCOCK CO. BRIDGE 67
VERTICAL SCALE 1" = 10'	DESIGNATION 2101745
SURVEY BOOK ELECTRONIC	SHEETS 24 of 31
CONTRACT B-44276	PROJECT 2101745



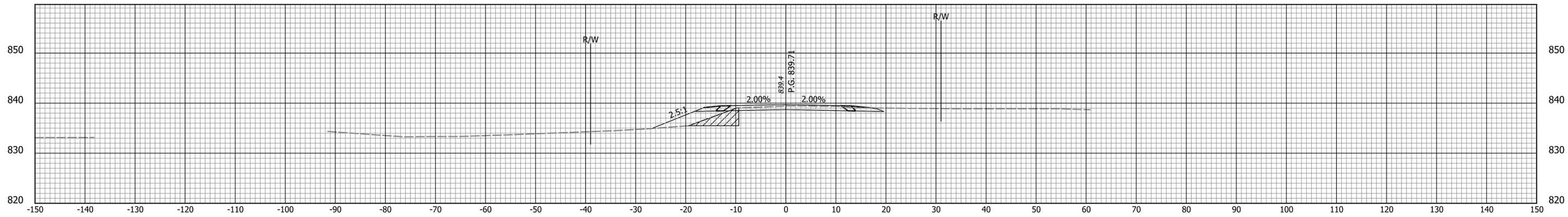
104+50

Ac = 0.0 Af = 102.2
Vc = 2 Vf = 139



104+00

Ac = 1.9 Af = 48.2
Vc = 21 Vf = 63



103+50

Ac = 21.2 Af = 20.1
Vc = 17 Vf = 12

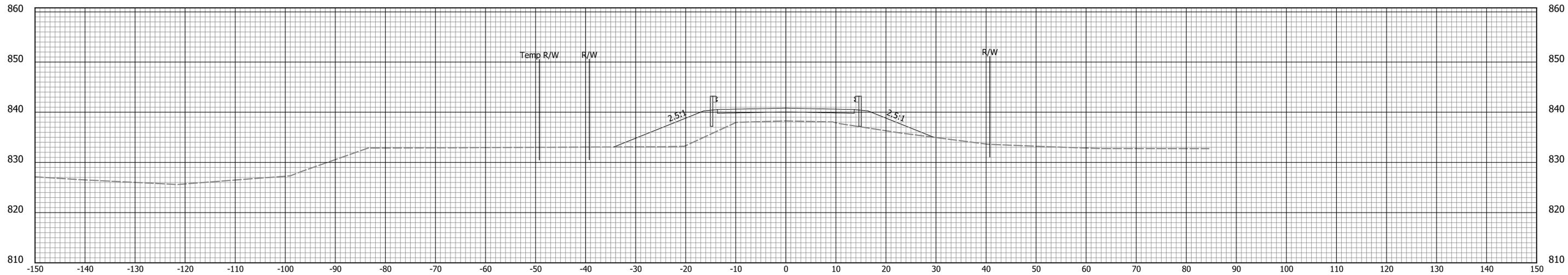
DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ TMT _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

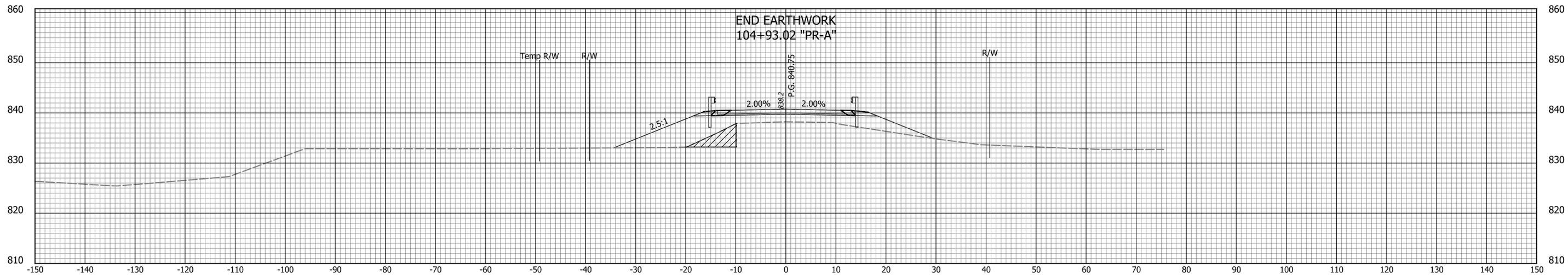
**CROSS SECTIONS
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE HANCOCK CO. BRIDGE 67
VERTICAL SCALE 1" = 10'	DESIGNATION 2101745
SURVEY BOOK ELECTRONIC	SHEETS 25 of 31
CONTRACT B-44276	PROJECT 2101745



105+00

Ac = 0.0 Af = 0.0
Vc = 0 Vf = 0



104+93

Ac = 0.0 Af = 0.0
Vc = 0 Vf = 81

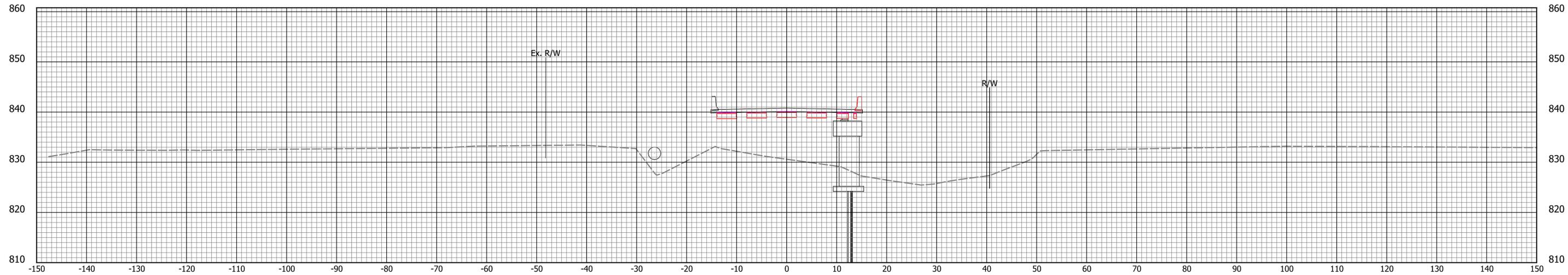
DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ TMT _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

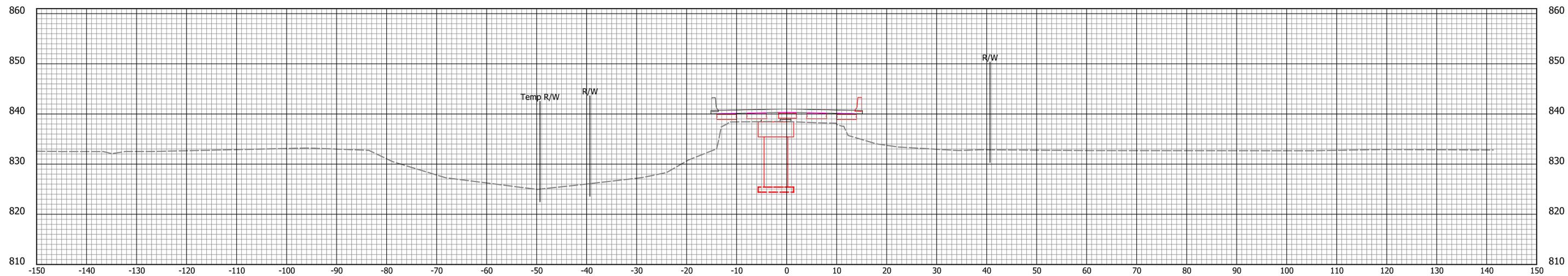
**CROSS SECTIONS
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE HANCOCK CO. BRIDGE 67
VERTICAL SCALE 1" = 10'	DESIGNATION 2101745
SURVEY BOOK ELECTRONIC	SHEETS 26 of 31
CONTRACT B-44276	PROJECT 2101745



106+00

Ac = 0.0 Af = 6.8
Vc = 0 Vf = 6



105+50

Ac = 0.0 Af = 0.0
Vc = 0 Vf = 0

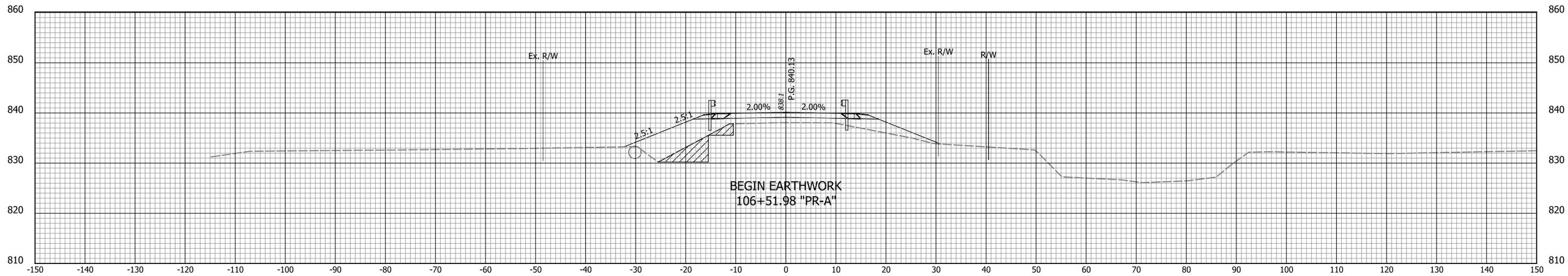
DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ TMT _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

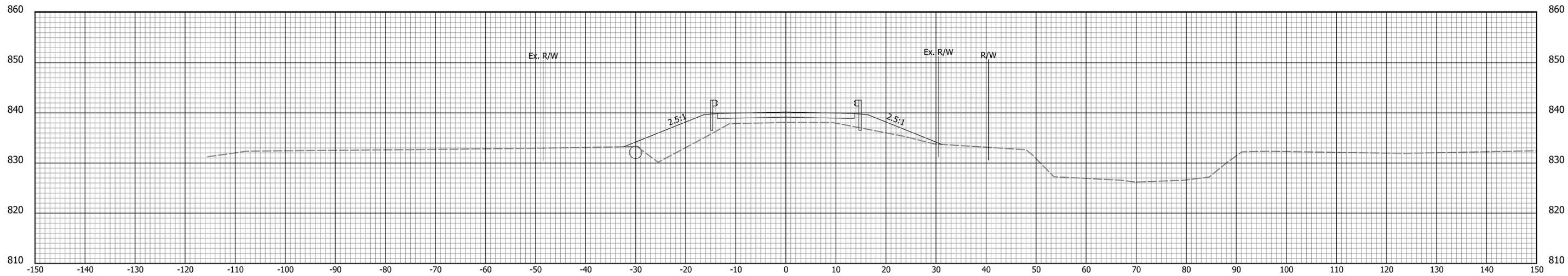
**CROSS SECTIONS
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE HANCOCK CO. BRIDGE 67
VERTICAL SCALE 1" = 10'	DESIGNATION 2101745
SURVEY BOOK ELECTRONIC	SHEETS 27 of 31
CONTRACT B-44276	PROJECT 2101745



106+52

Ac = 5.0 Af = 124.3
 Vc = 0 Vf = 5



106+50

Ac = 4.9 Af = 0.0
 Vc = 5 Vf = 6

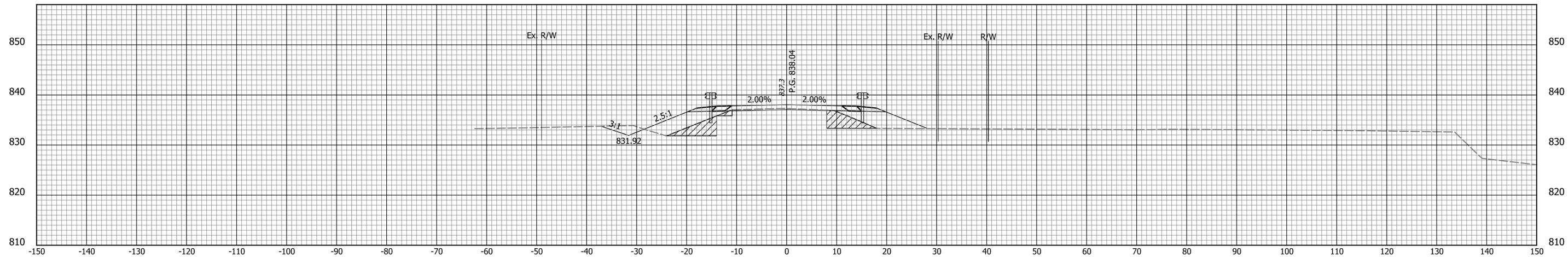
DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ TMT _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

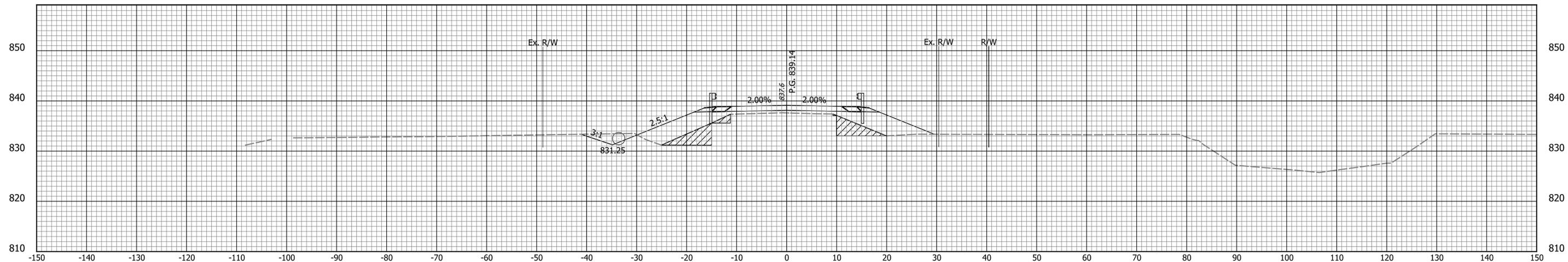
**CROSS SECTIONS
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE HANCOCK CO. BRIDGE 67
VERTICAL SCALE 1" = 10'	DESIGNATION 2101745
SURVEY BOOK ELECTRONIC	SHEETS 28 of 31
CONTRACT B-44276	PROJECT 2101745



107+50

Ac = 12.9 Af = 67.0
Vc = 25 Vf = 163



107+00

Ac = 13.9 Af = 109.1
Vc = 17 Vf = 208

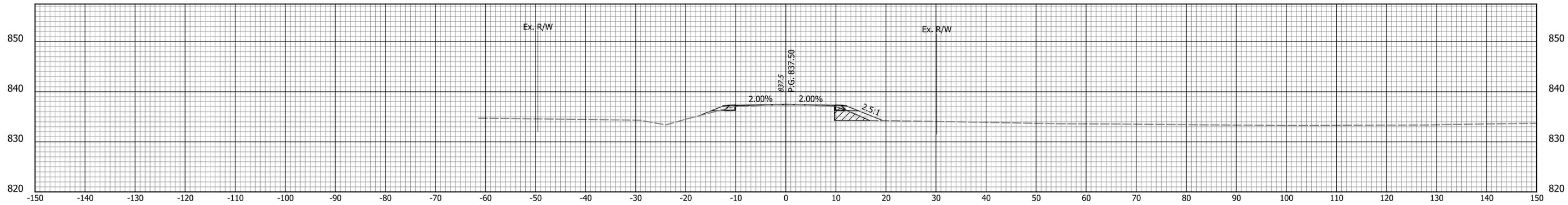
DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ TMT _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

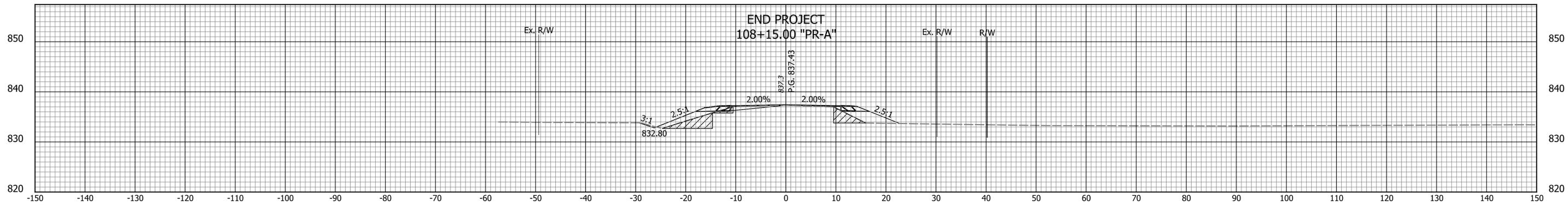
CROSS SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	HANCOCK CO. BRIDGE 67
VERTICAL SCALE	DESIGNATION
1" = 10'	2101745
SURVEY BOOK	SHEETS
ELECTRONIC	29 of 31
CONTRACT	PROJECT
B-44276	2101745



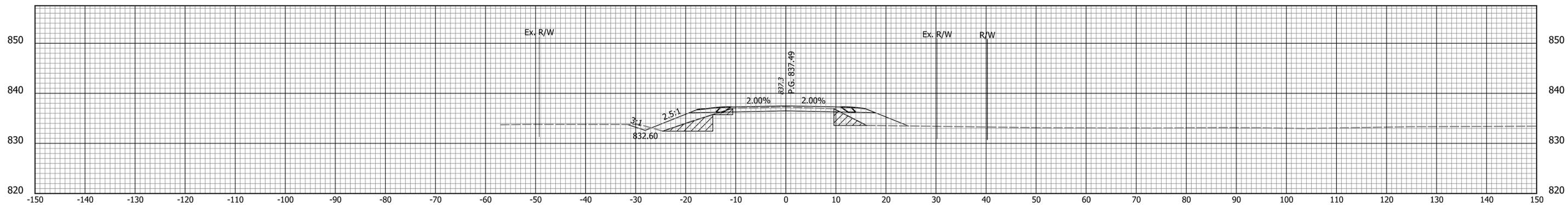
108+50

Ac = 2.7 Af = 6.0
Vc = 2 Vf = 21



108+15

Ac = 0.8 Af = 26.6
Vc = 5 Vf = 17



108+00

Ac = 18.6 Af = 36.1
Vc = 29 Vf = 95

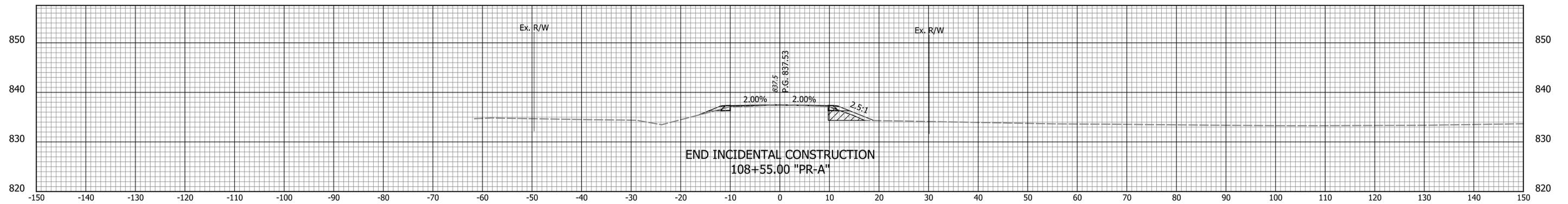
DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ TMT _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LINE "PR-A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE HANCOCK CO. BRIDGE 67
VERTICAL SCALE 1" = 10'	DESIGNATION 2101745
SURVEY BOOK ELECTRONIC	SHEETS 30 of 31
CONTRACT B-44276	PROJECT 2101745



108+55

Ac = 2.7 Af = 4.7
Vc = 1 Vf = 1

DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ TMT _____	
CHECKED: _____ RTA _____	CHECKED: _____ RTA _____	

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS LINE "PR-A"	

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE HANCOCK CO. BRIDGE 67
VERTICAL SCALE 1" = 10'	DESIGNATION 2101745
SURVEY BOOK ELECTRONIC	SHEETS 31 of 31
CONTRACT B-44276	PROJECT 2101745