

PROJECT	DESIGNATION
0501212	1601732 & 1601733
CONTRACT	BRIDGE FILE
R-28940	165-050-02226 DNBL & DSBL

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I65-050-02226 DNBL I65-050-02226 DSBL	BRIDGE REHABILITATION TWIN CONTINUOUS COMPOSITE STEEL BEAM BRIDGES	3 SPANS: 45'-0", 54'-0", 45'-0" SKEW: 16°28'00" LEFT	CSX RAILROAD	STA. 2227+85.88 "A"

INDIANA DEPARTMENT OF TRANSPORTATION



TRAFFIC DATA	I-65
A.D.T. (2019)	31,320 V.P.D.
A.D.T. (2039)	34,310 V.P.D.
D.H.V. (2039)	2,740 V.P.H.
DIRECTIONAL DISTRIBUTION	50%
TRUCKS	38% A.A.D.T.
	29% D.H.V.
DESIGN DATA	
DESIGN SPEED	70 M.P.H.
PROJECT DESIGN CRITERIA	PARTIAL RECONSTRUCTION 4R (FREEWAY)
FUNCTIONAL CLASSIFICATION	INTERSTATE
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	FULL

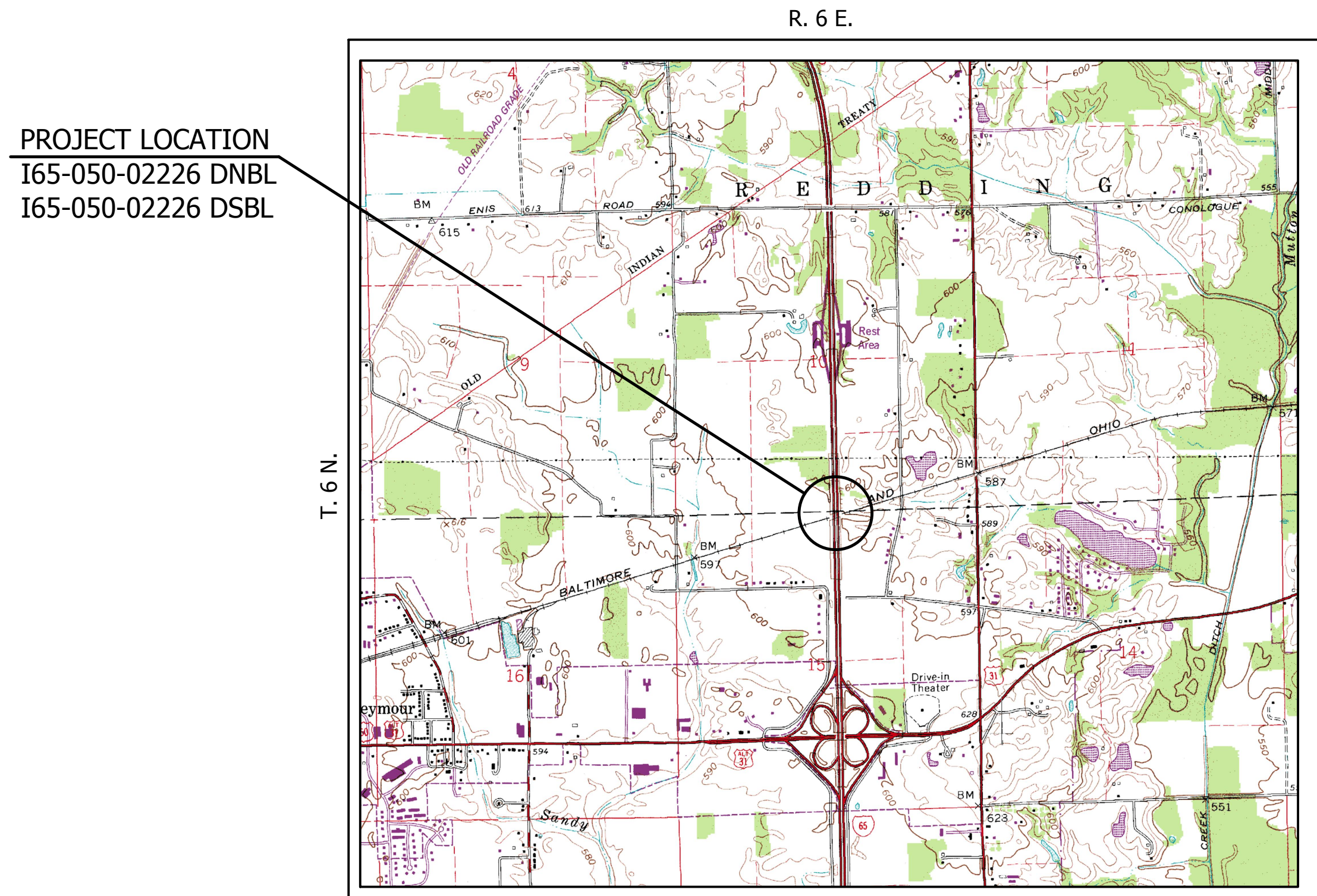
KIN DESIGNATION NUMBERS		
PART	DESIGNATION	DESCRIPTION
1	0501212	I-65 ROAD PLANS
2	0501212	I-65 CROSS SECTIONS
3	0501212	I-65 TRAFFIC PLANS
4	1601732 & 1601733	I-65 OVER CSX RAILROAD
5	1592538 & 1592536	I-65 OVER MUTTON CREEK DITCH
6	1601840 & 1601970	I-65 OVER EAST FORK OF WHITE RIVER
7	1601841 & 1601920	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 1
8	1592568 & 1592576	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 2
9	1592575 & 1592589	I-65 OVER EAST FORK OF WHITE RIVER, OVERFLOW NO. 3
10	1592590 & 1592592	I-65 OVER L & I RAILROAD
11	1592595 & 1592594	I-65 OVER ABLE DITCH
12	1592600 & 1592599	I-65 OVER SMALLS CREEK
13	1700256	ENOS ROAD OVER I-65
13	1700257	CR 800 NORTH OVER I-65
13	1700258	REDDING ROAD OVER I-65
13	1700259	SR 11 OVER I-65
13	1700260	COUNTYLINE ROAD OVER I-65
13	1700261	CR 950 SOUTH OVER I-65
13	1700262	CR 625 SOUTH OVER I-65
14	1383528 & 1383529	I-65 OVER DENOIS CREEK

BRIDGE REHABILITATION PLANS

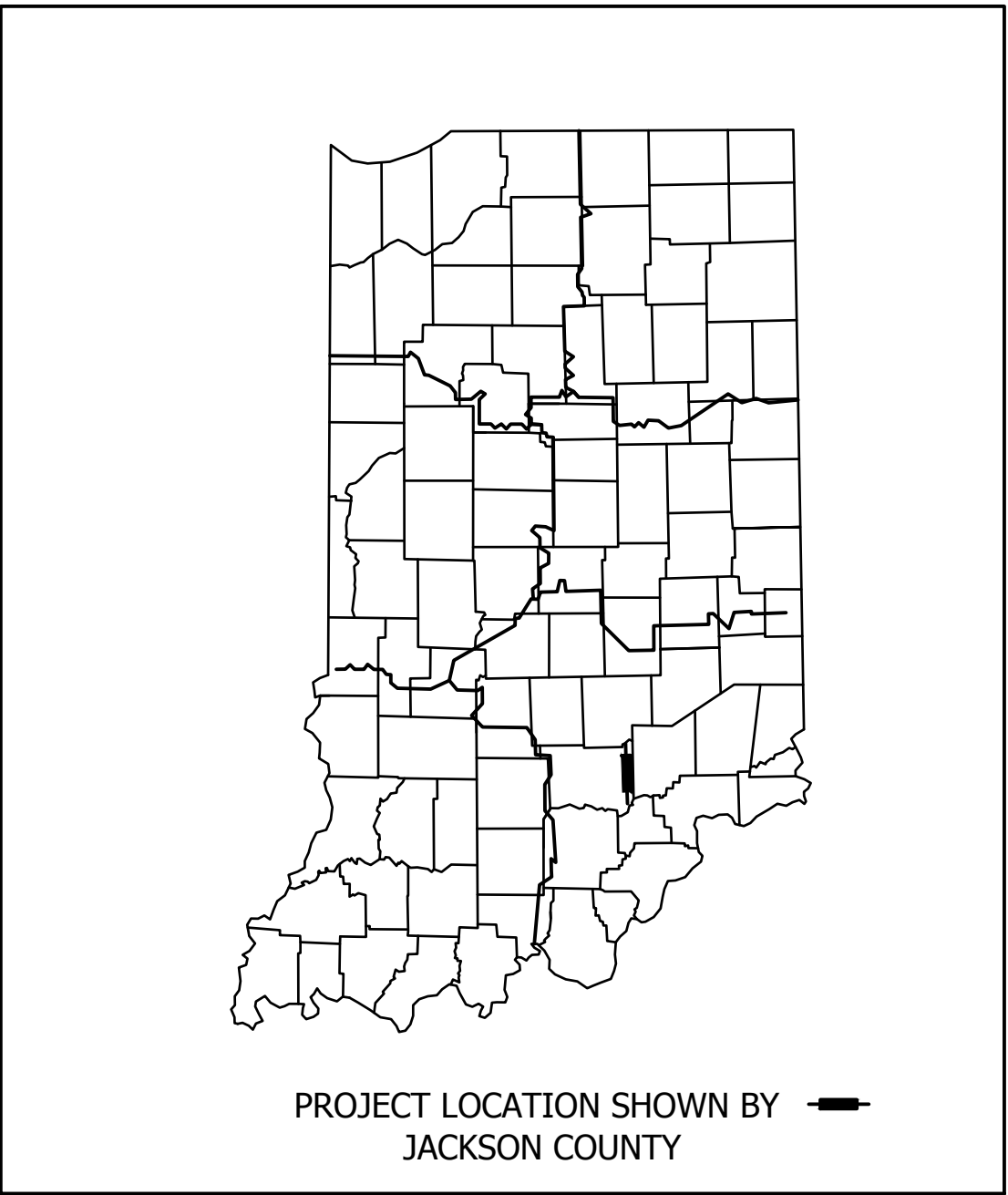
FOR SPANS OVER 20 FEET
INTERSTATE 65
OVER
CSX RAILROAD

PROJECT NO. 0501212 P.E.
PROJECT NO. 0501212 CONST.
RP 50+0.255

This Bridge Rehabilitation is on Interstate 65 over CSX Railroad
Located in Section 15, of Township 6 North, Range 6 East, Redding Township,
in Jackson County Indiana.



LOCATION MAP



LATITUDE: 38°58'08.20" N LONGITUDE: 85°50'36.64" W

BRIDGE LENGTH : 0.54 MI.
ROADWAY LENGTH : 13.71 MI.
TOTAL LENGTH : 14.25 MI.
MAX GRADE: 2.8%

[INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2016 TO BE
USED WITH THESE PLANS]



1625 N. Post Road
Indianapolis, Indiana 46219
Phone: 317-895-2585
Fax: 317-895-2596 Web: www.ucindy.com

PLANS PREPARED BY:	UNITED CONSULTING	317-895-2585 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:		DATE
	INDIANA DEPARTMENT OF TRANSPORTATION	

BRIDGE FILE I65-050-02226 DNBL & DSBL DESIGNATION 1601732 & 1601733	
SURVEY BOOK	SHEETS
	1 of 9
CONTRACT R-28940	PROJECT 0501212

UTILITIES

GENERAL NOTES

INDEX

[illegible]

REVISIONS

[illegible]

1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
-----------------------------	-----------------	------

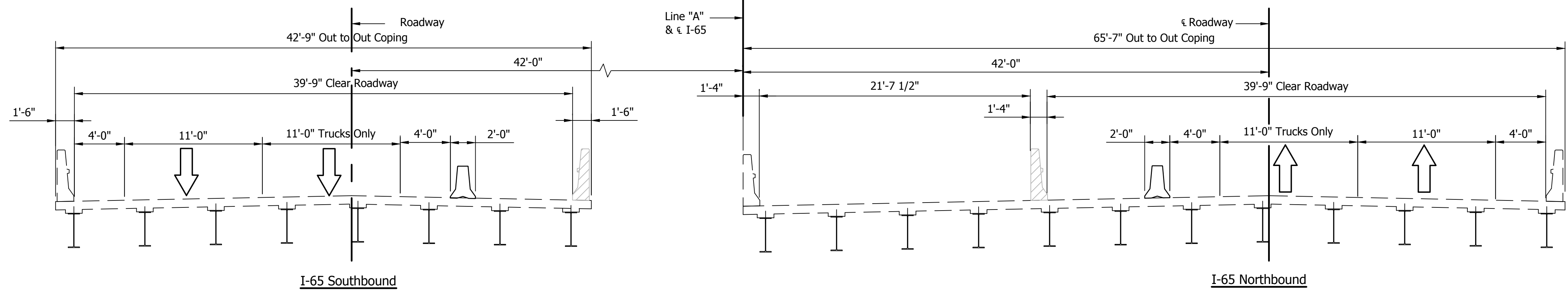
DESIGNED: <u>MRL</u>	DRAWN: <u>DJZ</u>
CHECKED: <u>BSF</u>	CHECKED: <u>MRL</u>

CHECKED: BSF	CHECKED: MRL
--------------	--------------

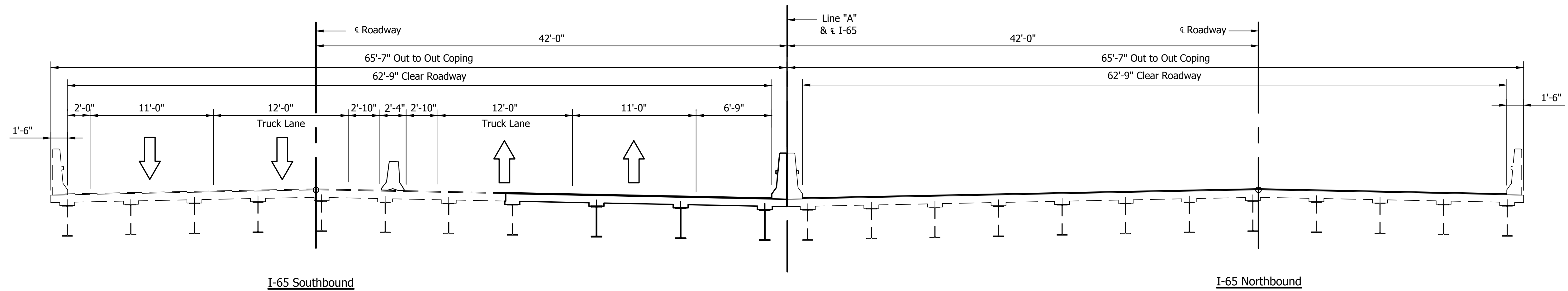
INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX
I-65 OVER CSX R.R.

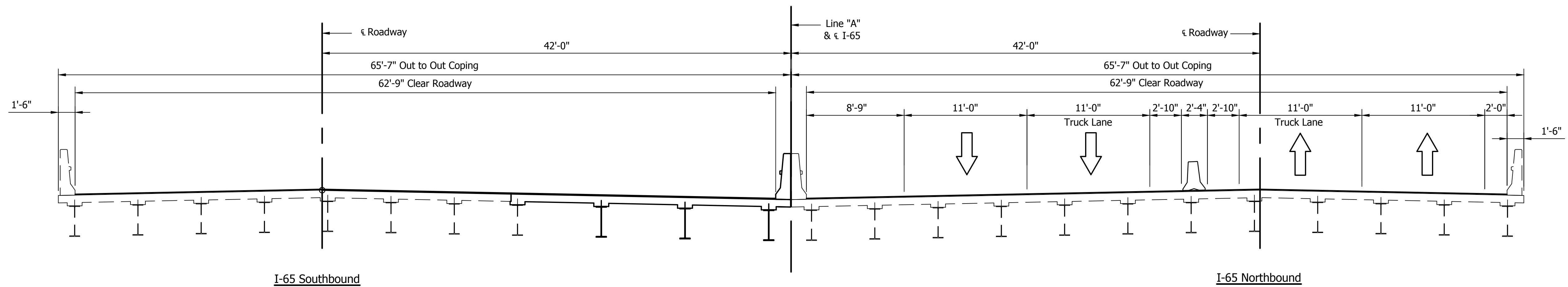
	HORIZONTAL SCALE	BRIDGE FILE	
	N/A	165-050-02226 DNBL & DSBL	
	VERTICAL SCALE	DESIGNATION	
	N/A	1601732 & 1601733	
	SURVEY BOOK	SHEETS	
	-	2	9
	CONTRACT	PROJECT	
	R-28940	0501212	



PHASE 2



PHASE 3



PHASE 4



1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com

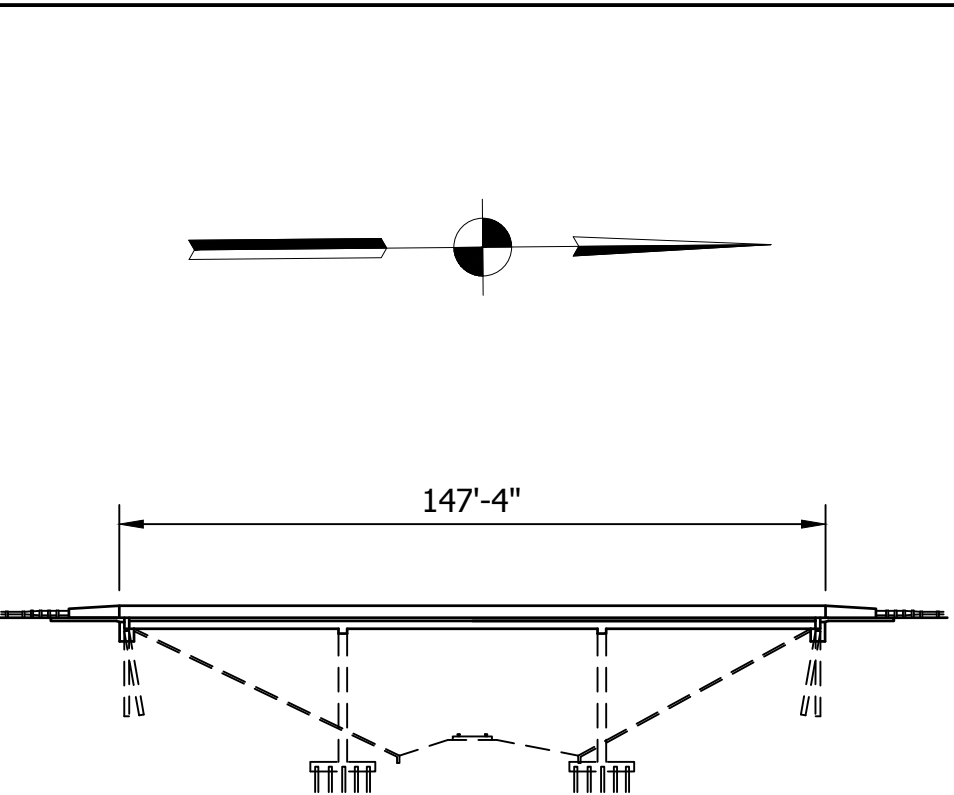
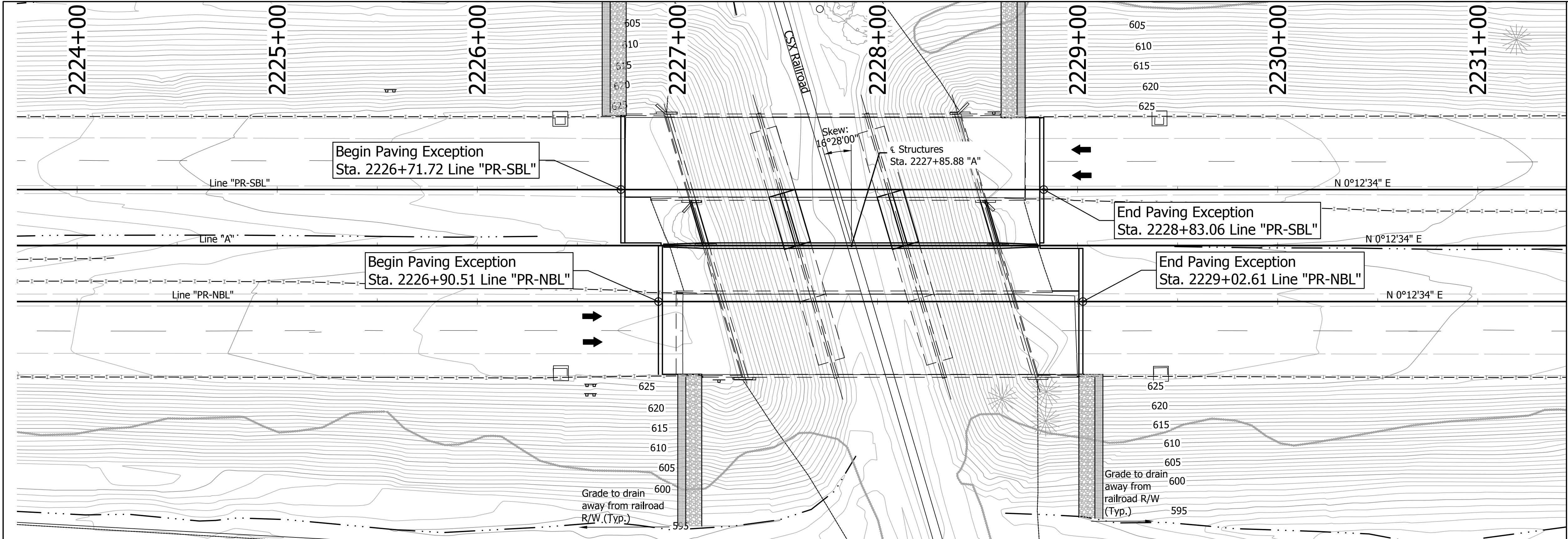
RECOMMENDED FOR APPROVAL _____	
DESIGNED: <u>MRL</u>	DRAWN: <u>DJZ</u>
CHECKED: <u>BSF</u>	CHECKED: <u>MRL</u>

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
I-65 OVER CSX R.R.

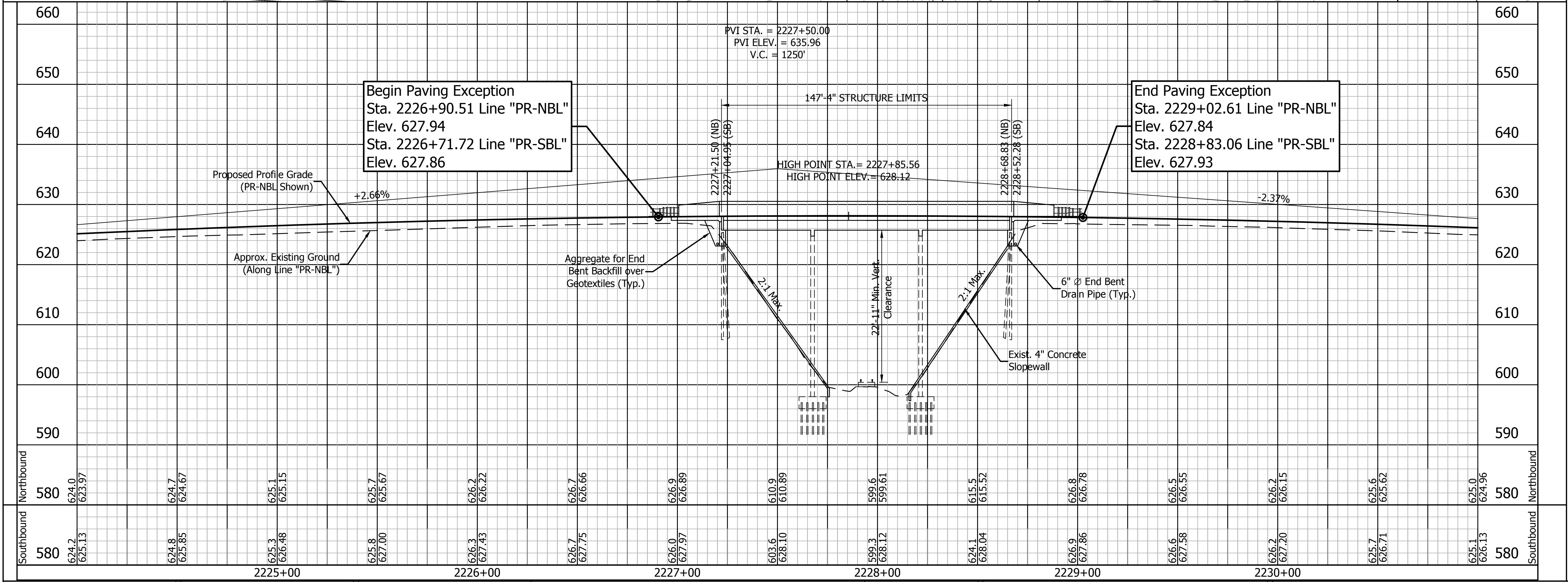
HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	I65-050-02226 DNBL & DSBL
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1601732 & 1601733
SURVEY BOOK	SHEETS
-	3 of 9
CONTRACT	PROJECT
R-28940	0501212

File Name: P:\CADD\W616-465\Bridges 3 & 4 - I-65 over CSX Railroad\DWG\Layout.dwg Plot Date: 4/25/2017 Plotted By: Zola, David



Existing Clear Roadway = 40'-0"
Portions of existing End Bents, Piers, and Bridge Deck to be removed.

EXISTING STRUCTURE
No Scale



Notes: For R/W, Earthwork Summary, and Additional Information see Roadway Plans, Des. No. 0501212.

**TWIN CONTINUOUS COMPOSITE
STEEL BEAM BRIDGES**
3 SPANS: 45'-0", 54'-0", 45'-0"
62'-11 1/2" CLEAR ROADWAYS
SKEW: 16°28'00" LT.
I-65 OVER CSX RAILROAD



1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: MRL DRAWN: DJZ
CHECKED: BSF CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
I-65 OVER CSX R.R.

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE I65-050-02226 DNBL & DSBL
VERTICAL SCALE 1" = 10'	DESIGNATION 1601732 & 1601733
SURVEY BOOK -	SHEETS 4 of 9
CONTRACT R-28940	PROJECT 0501212

GENERAL NOTES

- Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File 165-050-02226 CNBL & CSBL.
- Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field and report any discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.
- Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slabs, and 2" in all other parts, unless noted.
- Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
- Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Deign.

DESIGN DATA

Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

ULTIMATE DESIGN STRESSES

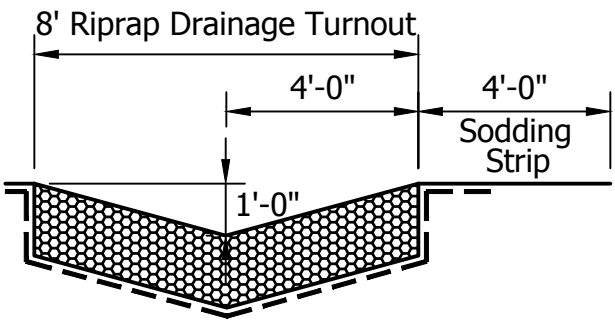
Class "A" Concrete	f'c = 3,500 p.s.i.
Class "B" Concrete	f'c = 3,000 p.s.i.
Class "C" Concrete	f'c = 4,000 p.s.i.
Reinforcing Steel (Grade 60)	fy = 60,000 p.s.i.
Structural Steel ASTM A709 (Grade 50)	fy = 50,000 p.s.i.

LEGEND

- (A) Remove the existing bridge railing and patch the bridge deck under the rail location.
- (B) Remove the existing bridge railing and 1'-6" of the bridge coping.
- (C) Sandblast the existing bridge deck, perform partial depth patching as needed, seal any cracks in the existing bridge deck, and install a new polymeric bridge deck overlay over the entire bridge deck.
- (D) Sandblast the existing bridge deck, perform partial depth patching as needed, seal any cracks in the existing bridge deck, widen the southbound superstructure and substructure toward the median side, and install a new polymeric bridge deck overlay over the entire bridge deck.
- (E) Remove and replace the existing reinforced concrete approach slabs.
- (F) Clean and regrade existing ditches along the tracks to provide positive drainage.
- (G) Repair slopewall and drainage pipes. Extend Slopewall 2' outside bridge deck.
- (H) Pier shall be designed with a Crash Wall per AREMA requirements.
- (I) Blast clean and prime ends of beams a minimum of 5' beyond the face of bent.
- (J) Place Snowplowable Pavement Markings.



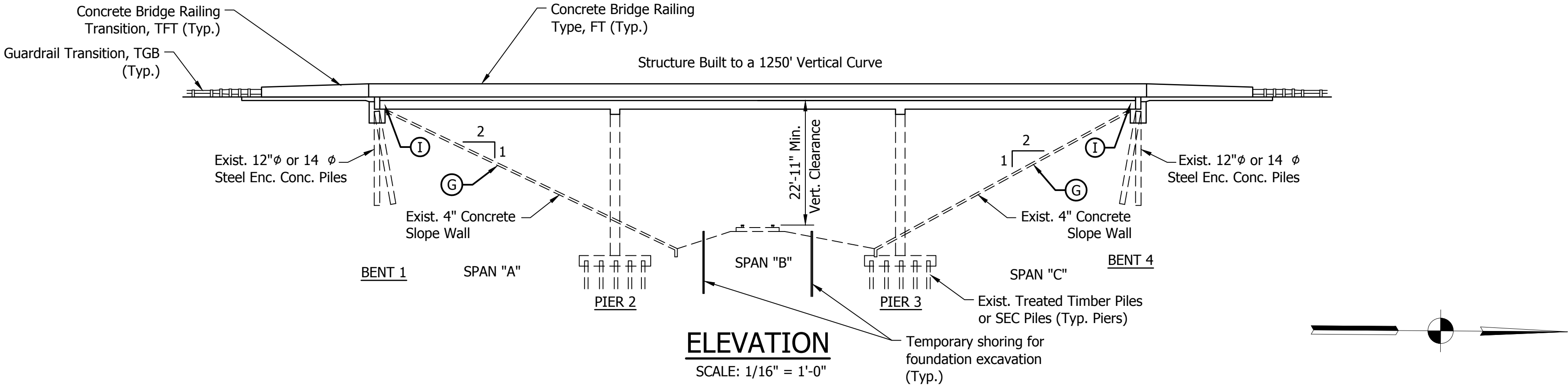
Limits of Removal



RIPRAP DRAINAGE TURNOUT

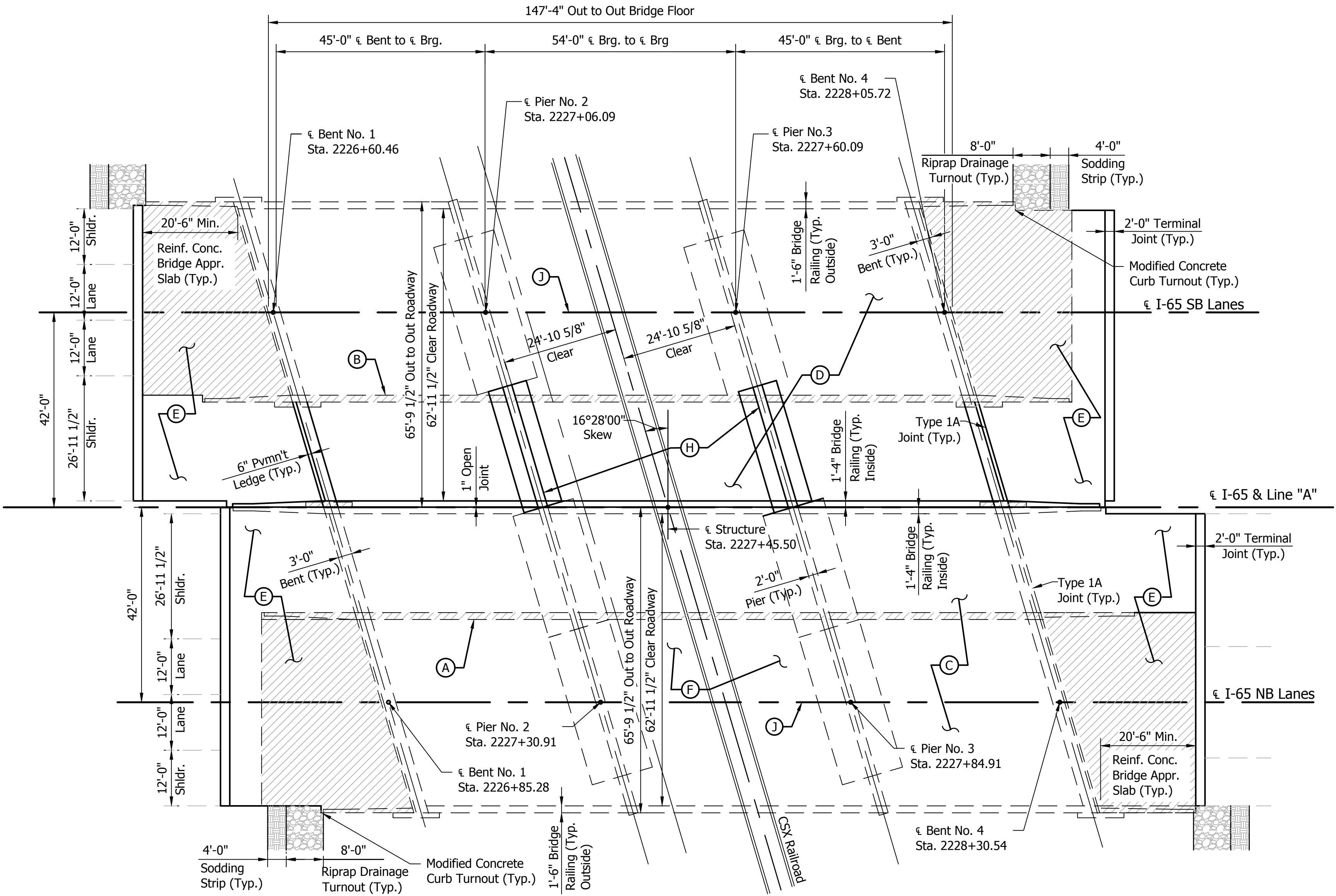
No Scale

TWIN CONTINUOUS COMPOSITE STEEL BEAM BRIDGES
3 SPANS: 45'-0", 54'-0", 45'-0"
62'-11 1/2" CLEAR ROADWAYS
SKEW: 16°28'00" LT.
I-65 OVER CSX RAILROAD



ELEVATION

SCALE: 1/16" = 1'-0"



PLAN

SCALE: 1/16" = 1'-0"



1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com

RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: MRL

DRAWN: DJZ

CHECKED: BSF

CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
I-65 OVER CSX R.R.

HORIZONTAL SCALE

AS SHOWN

VERTICAL SCALE

AS SHOWN

BRIDGE FILE

165-050-02226 DNBL & DSBL

DESIGNATION

1601732 & 1601733

SURVEY BOOK

-

SHEETS

5

of

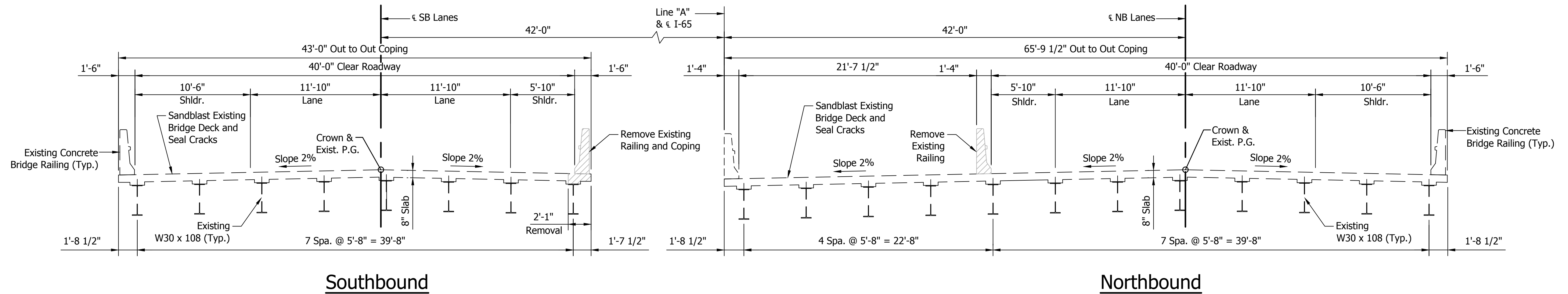
9

CONTRACT

R-28940

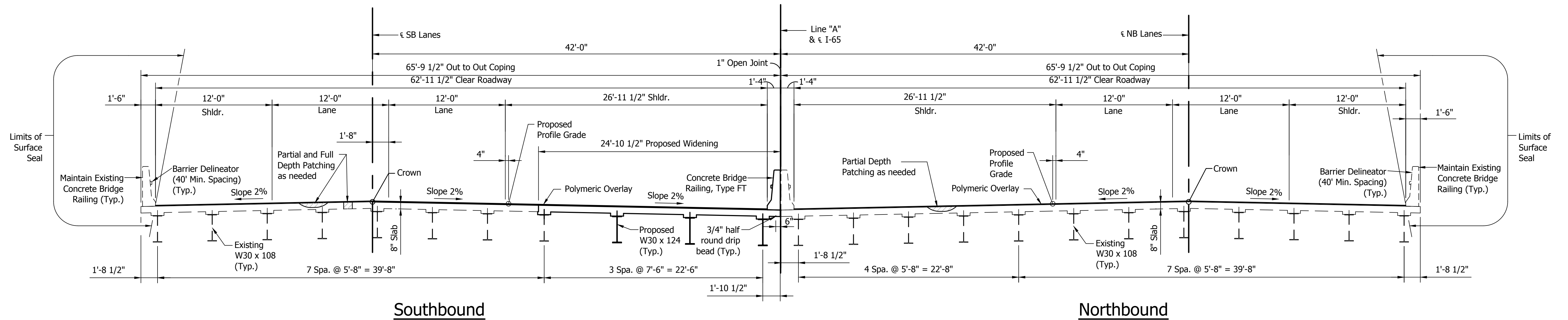
PROJECT

0501212



EXISTING TYPICAL SECTION

Scale: 3/16" = 1'-0"



PROPOSED TYPICAL SECTION

Scale: 3/16" = 1'-0"

TWIN CONTINUOUS COMPOSITE STEEL BEAM BRIDGES
3 SPANS: 45'-0", 54'-0", 45'-0"
62'-11 1/2" CLEAR ROADWAYS
SKREW: 16°28'00" LT.
I-65 OVER CSX RAILROAD



1625 N. Post Road
 Indianapolis, IN 46219
 Phone 317-895-2585
 Fax 317-895-2596
 www.ucindy.com

RECOMMENDED
 FOR APPROVAL _____
 DESIGN ENGINEER DATE

DESIGNED: MRL DRAWN: DJZ

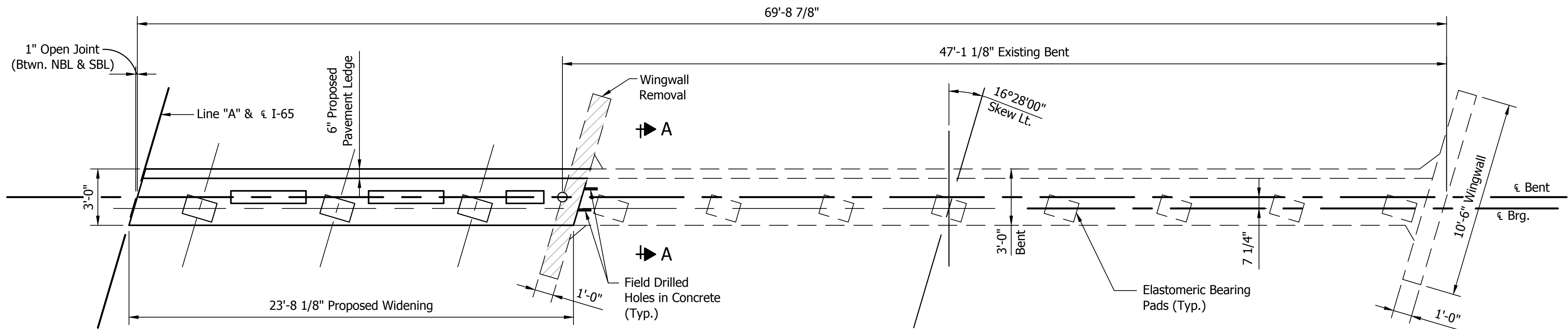
CHECKED: BSF CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
I-65 OVER CSX R.R.

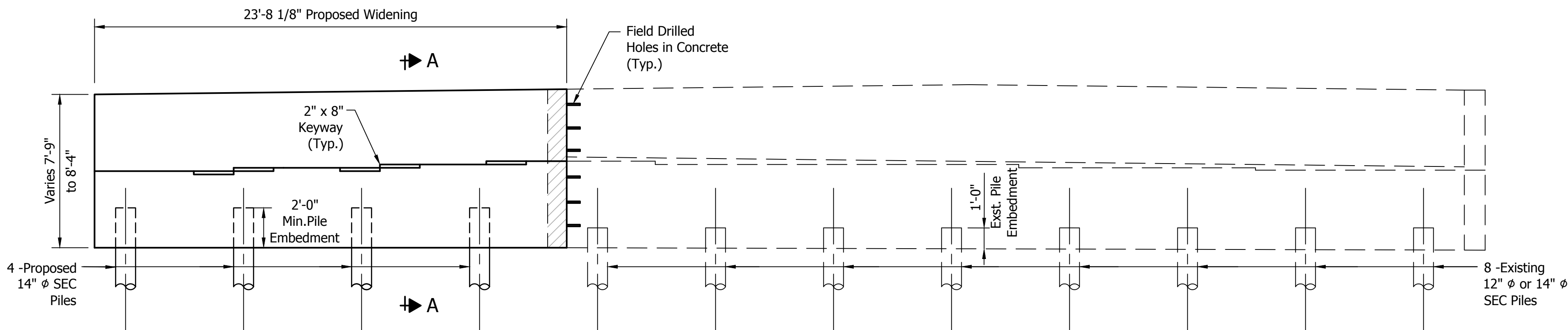
HORIZONTAL SCALE		BRIDGE FILE	
AS SHOWN		I65-050-02226 DNBL & DSBL	
VERTICAL SCALE		DESIGNATION	
AS SHOWN		1601732 & 1601733	

SURVEY BOOK		SHEETS	
-		6	of 9
CONTRACT		PROJECT	
R-28940		0501212	



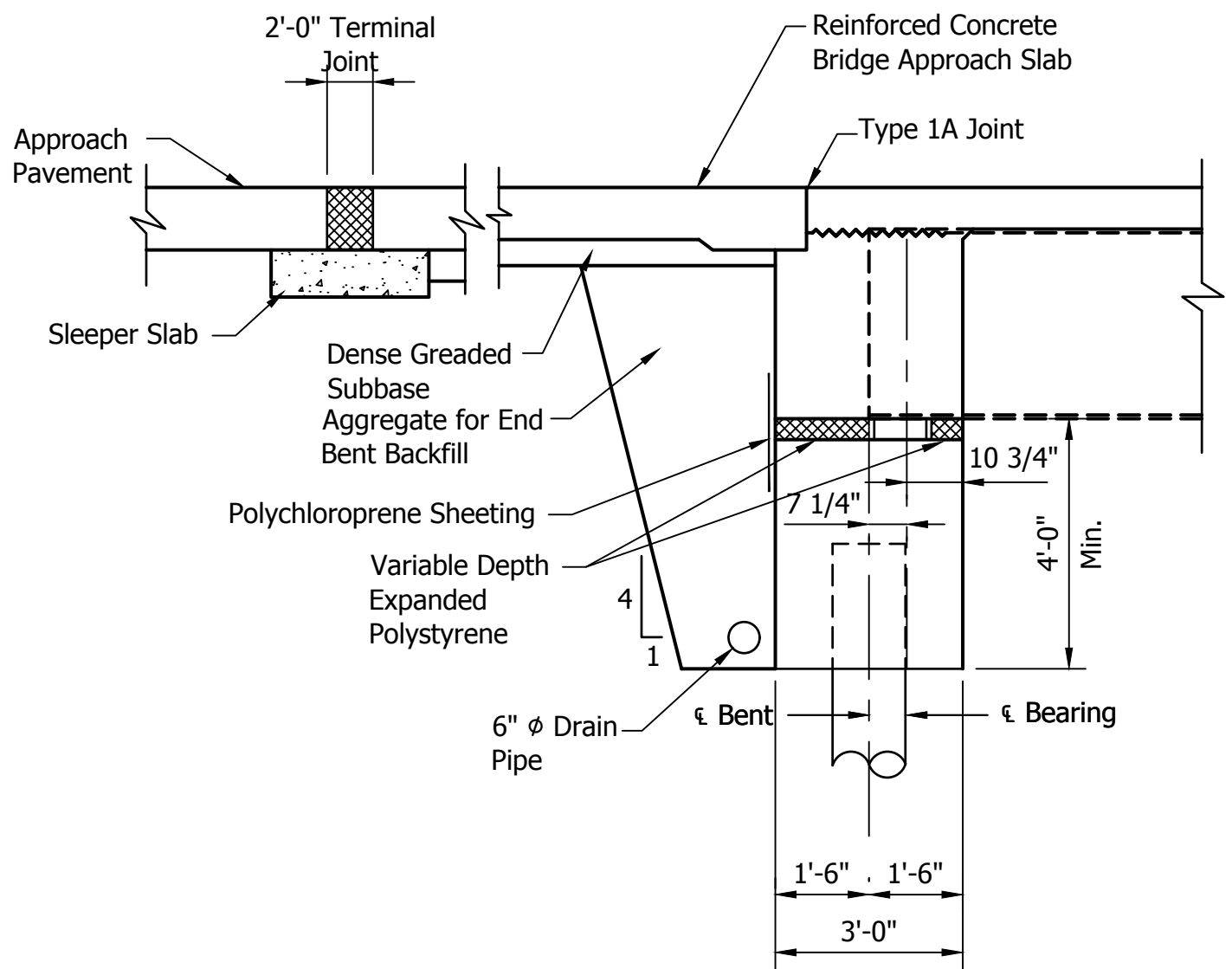
SOUTHBOUND BENT PLAN

Scale: 1/4" = 1'-0"
(Bent 1 Shown, Bent 4 Same by Opposite Hand)



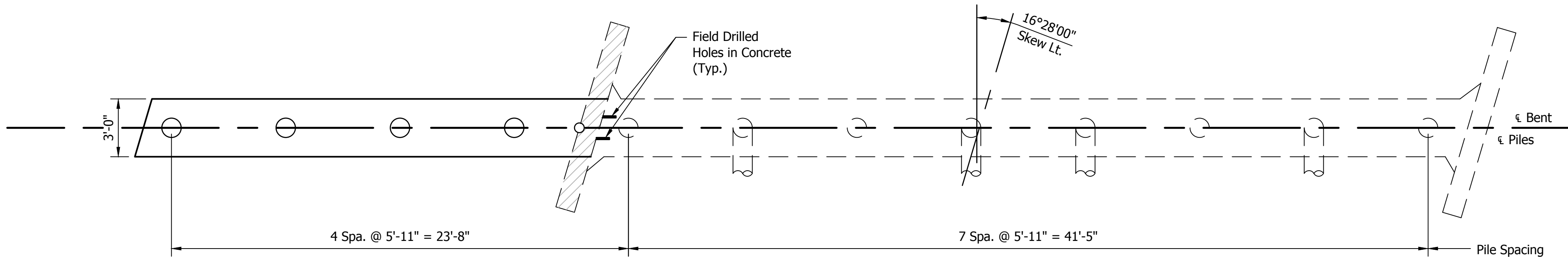
SOUTHBOUND BENT ELEVATION

Scale: 1/4" = 1'-0"
(Bent 1 Shown, Bent 4 Same by Opposite Hand)



SECTION A-A

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



SOUTHBOUND PILE PLAN

Scale: 1/4" = 1'-0"
(Bent 1 Shown, Bent 4 Same by Opposite Hand)



1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com

RECOMMENDED FOR APPROVAL _____
DESIGN ENGINEER DATE

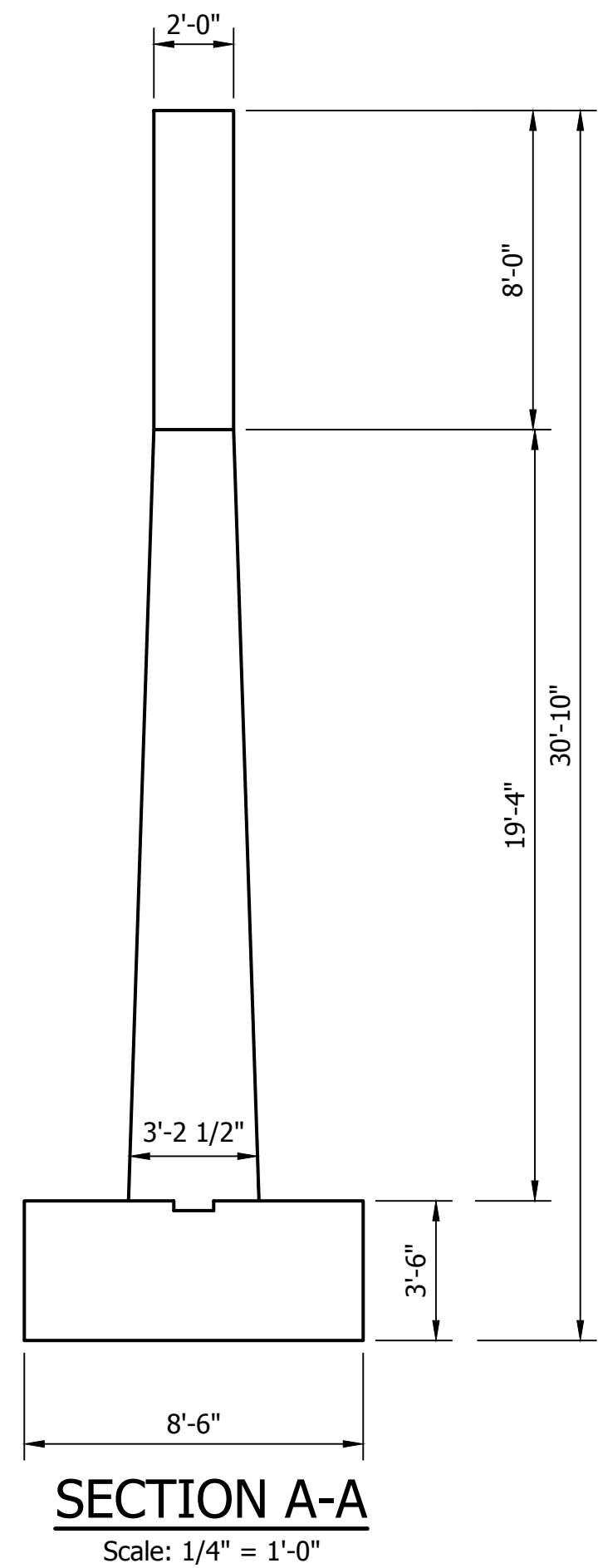
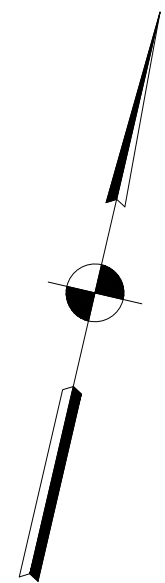
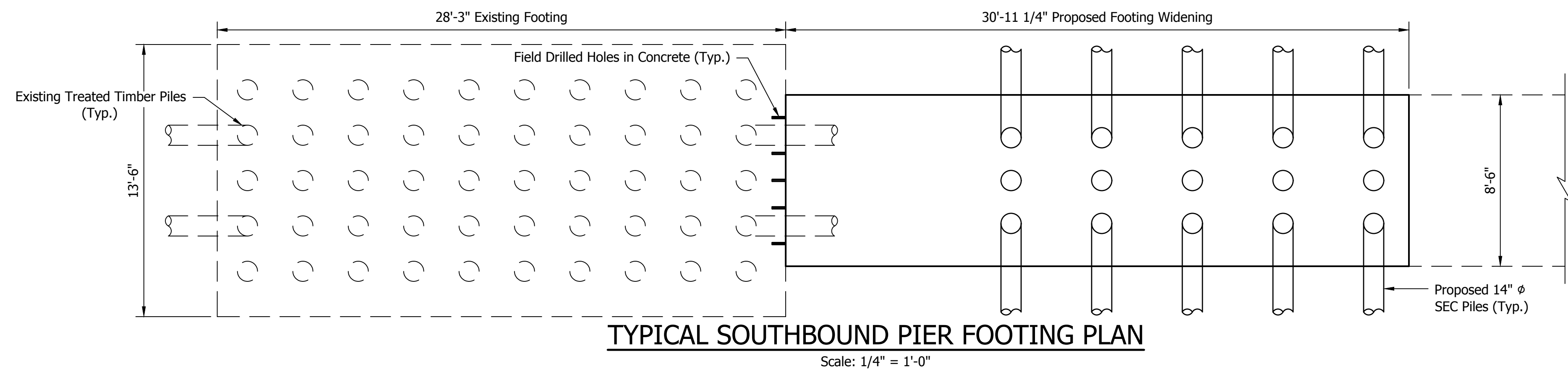
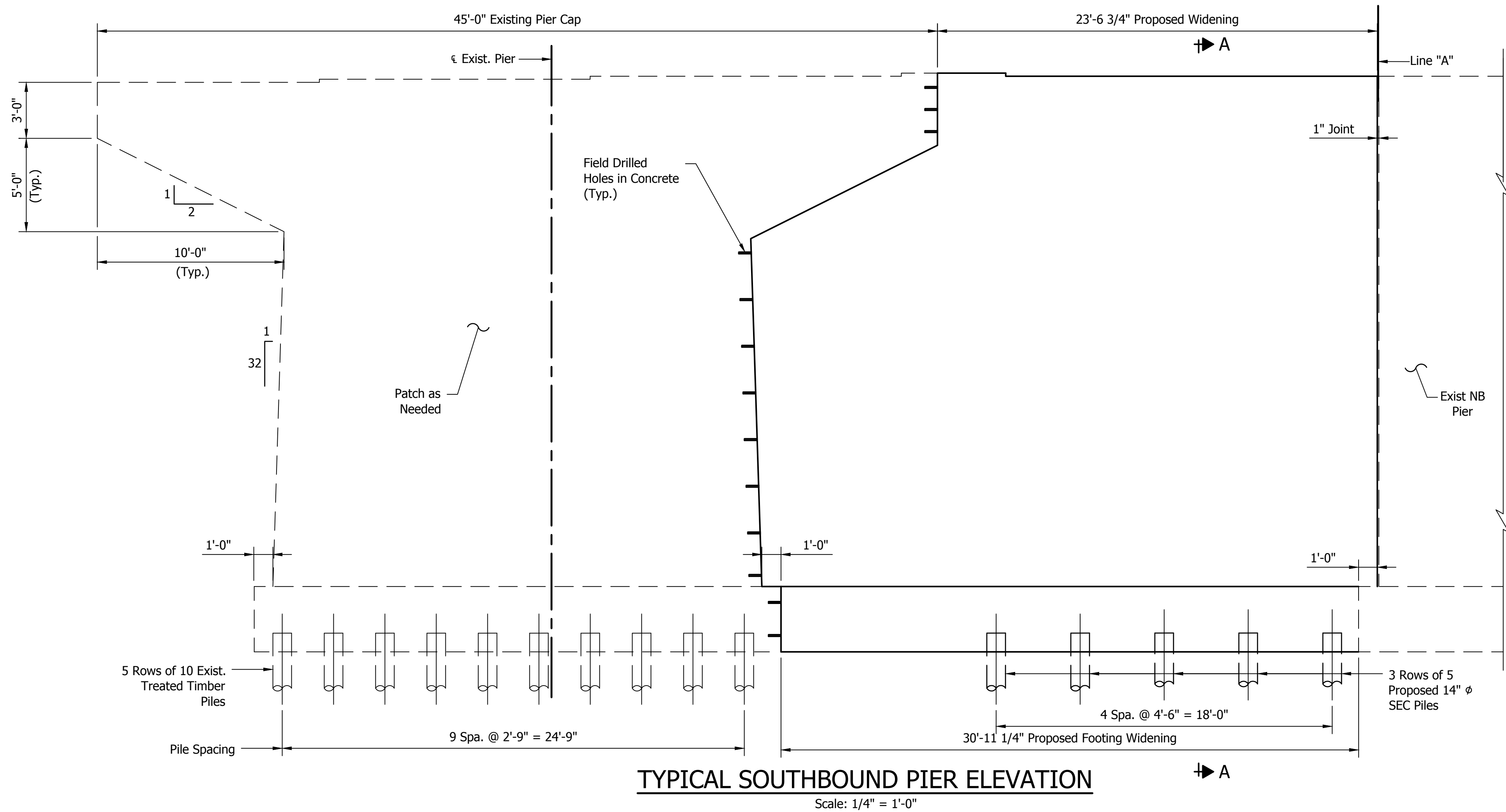
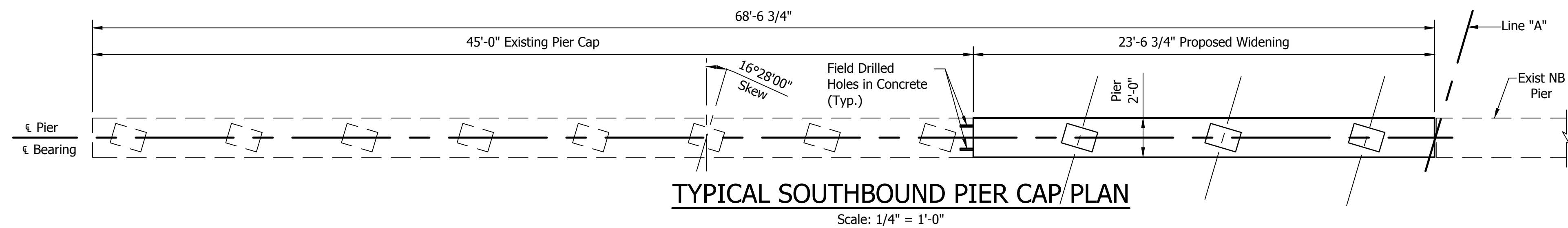
DESIGNED: MRL DRAWN: DJZ
CHECKED: BSF CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT DETAILS
I-65 OVER CSX R.R.

HORIZONTAL SCALE		BRIDGE FILE	
AS SHOWN		I65-050-02226 DNBL & DSDL	
VERTICAL SCALE		DESIGNATION	
AS SHOWN		1601732 & 1601733	

SURVEY BOOK		SHEETS	
-		7 of 9	
CONTRACT		PROJECT	
R-28940		0501212	



1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ucindy.com

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

DESIGNED: MRL DRAWN: DJZ
CHECKED: BSF CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
I-65 OVER CSX R.R.

HORIZONTAL SCALE		BRIDGE FILE	
AS SHOWN		I65-050-02226 DNBL & DSBL	
VERTICAL SCALE		DESIGNATION	
AS SHOWN		1601732 & 1601733	
SURVEY BOOK		SHEETS	
-		8 of 9	
CONTRACT		PROJECT	
R-28940		0501212	

SUMMARY OF BRIDGE QUANTITIES																																
ITEM	CONCRETE			CONCRETE RAILING CLASS C	REINF. BARS	EPOXY COATED REINF. BARS	STRUCT. STEEL	ANCHOR PLATES MK-AP	PILES												AGGREGATE FOR END BENT BACKFILL	CAST IRON GRATES, BASINS,& FITTINGS	EXP. JOINT TYPE "SS"	CONCRETE BARRIER RAIL TRANS. TYPE "WGB"	CONC.STR.MEMBERS		BARRIER DELINEATORS	SURFACE SEAL **	MASONRY COATING **	MODIFIED EPOXY COATED THREADED BAR ASSEMBLIES	R.C. PAVEMENT 14 Inch	DENSE GRADED SUBBASE 6 Inch
	CLASS C	CLASS A	CLASS B						CONC. STEEL SHELL ENCASED	REINF. CONC. STEEL SHELL ENCASED	HP12x74 STEEL "H"	STEEL H EPOXY COATED	STEEL H REINF. CONC. ENCASED	PILE TIP STEEL H	CORED HOLES IN ROCK	BOX BEAMS	I BEAM															
	SUPERSTR	SUBSTR	IN FTG.						no.	lft.	no.	lft.	no.	lft.	no.	lft.	no.	lft.	each	no.					lft.	cys.						
	cys.	cys.	cys.	cys.	lft.	lbs.	lbs.	lbs.	each	no.	lft.	no.	lft.	no.	lft.	no.	lft.	each	no.	lft.	cys.	lbs.	lft.	ea.	lft.	lft.	each	sys.	sys.	each	lft.	lbs.



--

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: <u>MRL</u>		DRAWN: <u>DJZ</u>	
CHECKED: <u>BSF</u>		CHECKED: <u>MRL</u>	

INDIANA DEPARTMENT OF TRANSPORTATION
BRIDGE SUMMARY TABLE I-65 OVER CSX R.R.

BRIDGE SUMMARY TABLE I-65 OVER CSX R.R.

HORIZONTAL SCALE		BRIDGE FILE	
N/A		I65-050-02226 DNBL & DSBL	
VERTICAL SCALE		DESIGNATION	
N/A		1601732 & 1601733	
SURVEY BOOK		SHEETS	
-		9	9
CONTRACT		PROJECT	
R-28940		0501212	

SURVEY BOOK	SHEETS		
-	9	of	9
CONTRACT	PROJECT		
R-28940	0501212		