

PROJECT	DESIGNATION
0501212	1592595 & 1592594
CONTRACT	BRIDGE FILE
R-28940	I65-056-04656 CNBL & CSBL

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I65-055-04656 CNBL I65-055-04656 CSBL	BRIDGE REHABILITATION TWIN CONTINUOUS REINFORCED CONCRETE SLAB BRIDGES	3 SPANS: 25'-6", 34'-0", 25'-6" SKEW: 0°00'00"	ABLE DITCH	STA. 2525+58.03 "A"

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

INDIANA DEPARTMENT
OF TRANSPORTATION

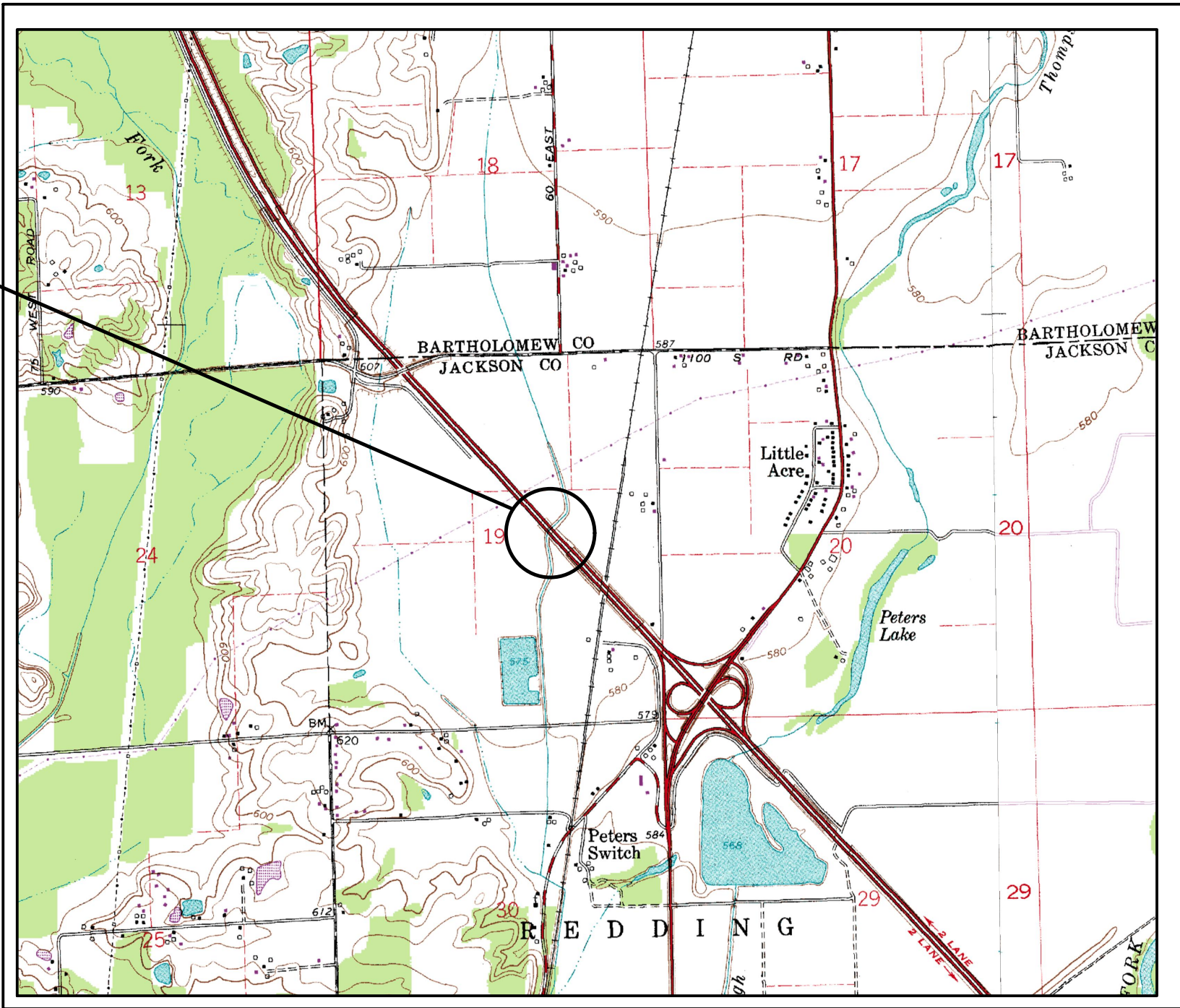


BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET
INTERSTATE 65
OVER
ABLE DITCH

PROJECT NO. 0501212
PROJECT NO. 0501212
RP 55+0.892

This Bridge Rehabilitation is on Interstate 65 over Able Ditch
Located in Section 19, of Township 7 North, Range 6 East, Redding
Township, in Jackson County Indiana.



PROJECT LOCATION
I65-056-04656 CNBL
I65-056-04656 CSBL

T. 7 N.

R. 5 E. | R. 6 E.

LOCATION MAP


Scale 1" = 2000'

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	



PROJECT LOCATION SHOWN BY  JACKSON COUNTY

LATITUDE: 39°02'01.03" N LONGITUDE: 85°53'50.59" 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:		
APPROVED FOR LETTING:		
	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE I65-056-04656 CNBL & CSBL DESIGNATION 1592595 & 1592594	
SURVEY BOOK	SHEETS
	1 of 9
CONTRACT R-28940	PROJECT 0501212

File Name: p:\C3D\MK16-465\Bridge\bridges 21 & 22 - i-65 over able ditch\Dwg\Title 21 & 22.dwg Plot Date: 4/25/2017 Plotted By: Zola, David

[illegible]

GENERAL NOTES	

[illegible][illegible]

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

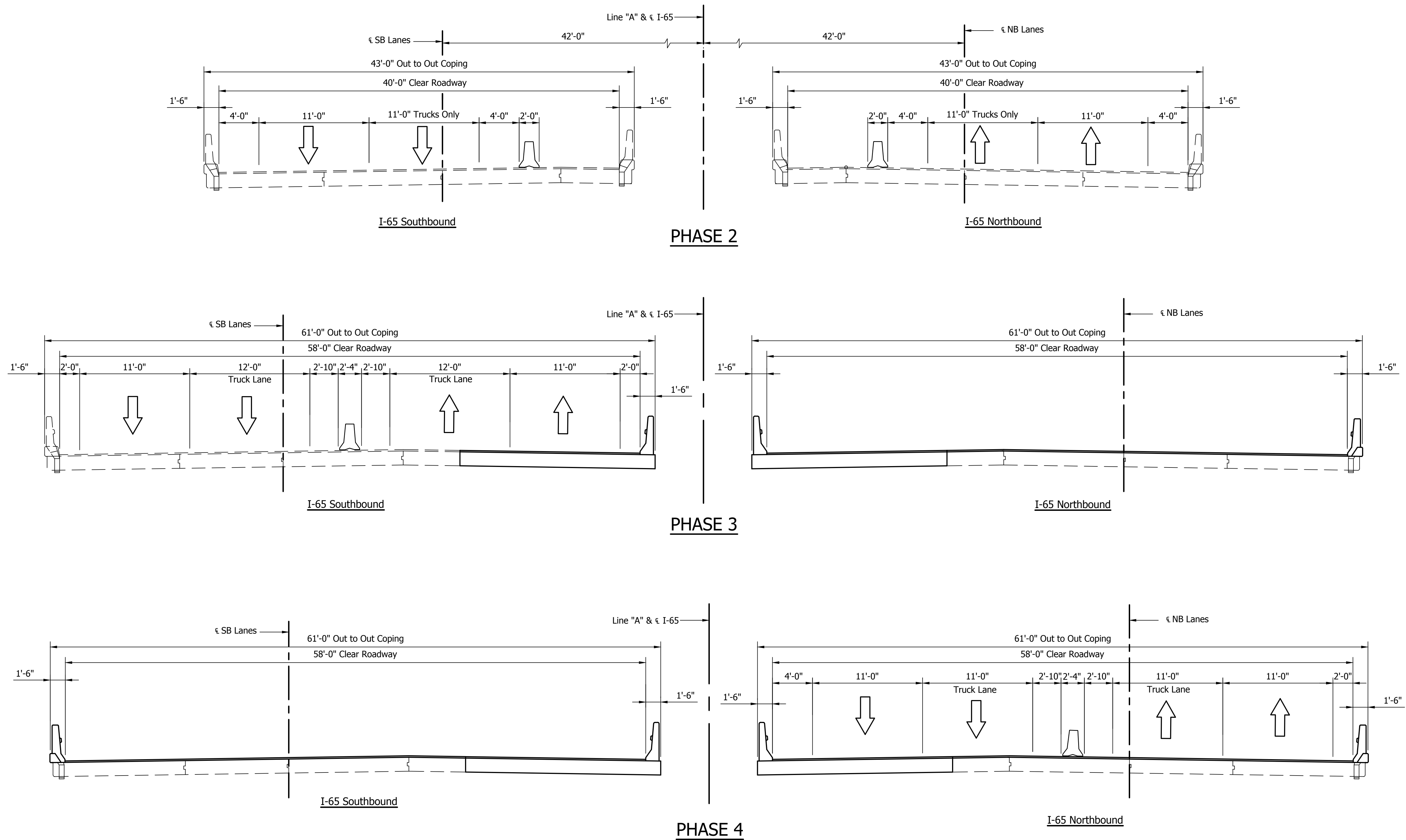
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
-----------------------------	-----------------	------

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

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX
I-65 OVER ABLE DITCH

HORIZONTAL SCALE	BRIDGE FILE		
N/A	I65-056-04656 CNBL & CSBL		
VERTICAL SCALE	DESIGNATION		
N/A	1592595 & 1592594		
SURVEY BOOK	SHEETS		
-	2	of	9
CONTRACT	PROJECT		
R-28940	0501212		



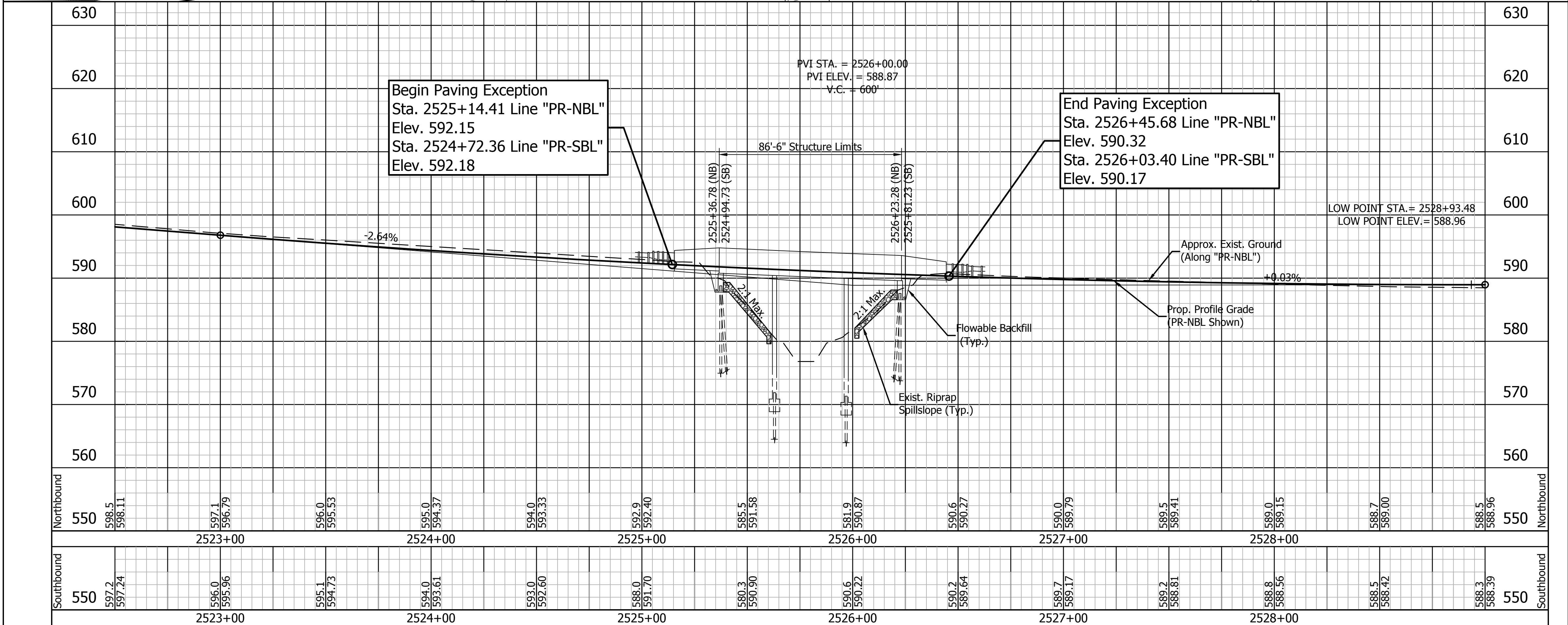
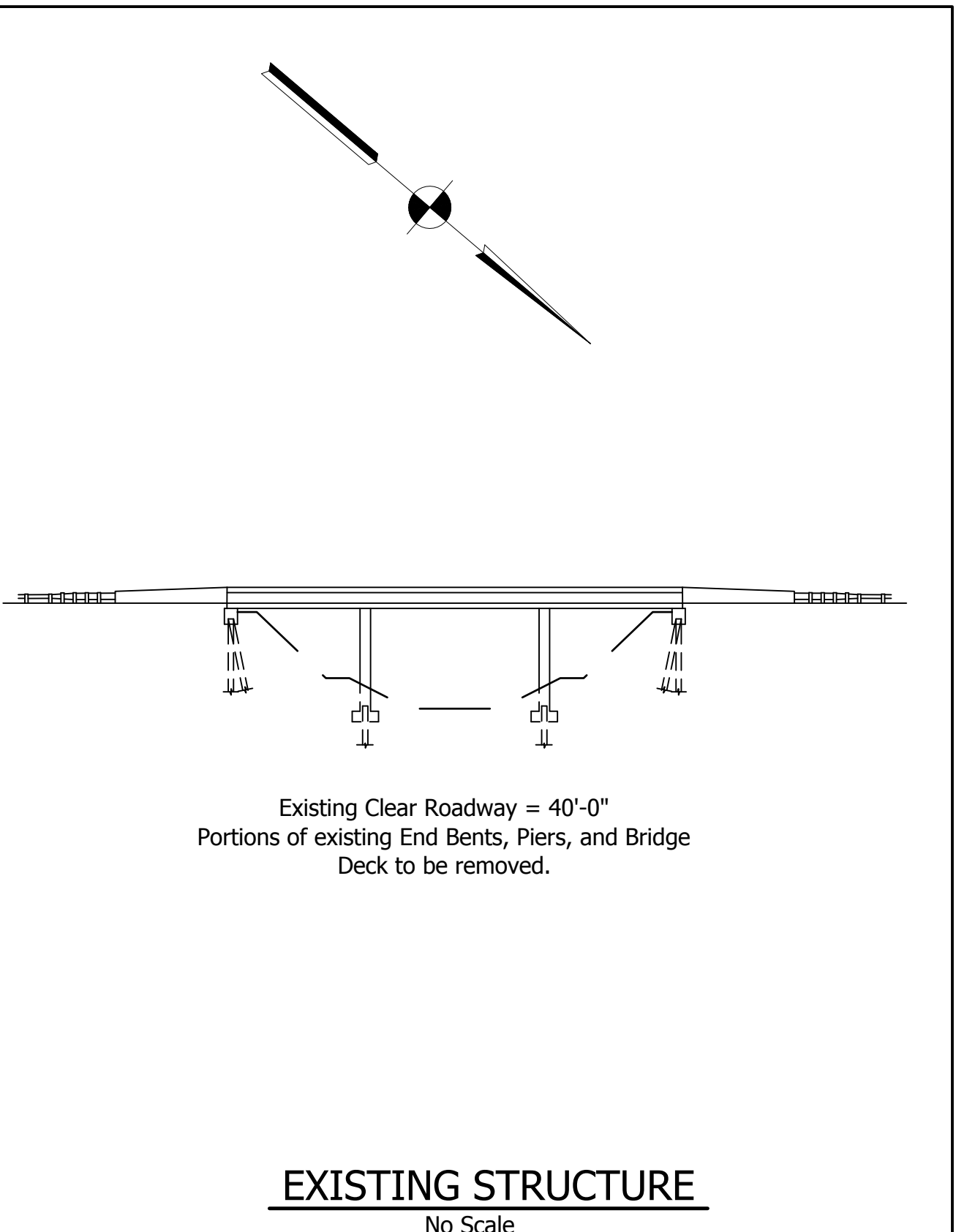
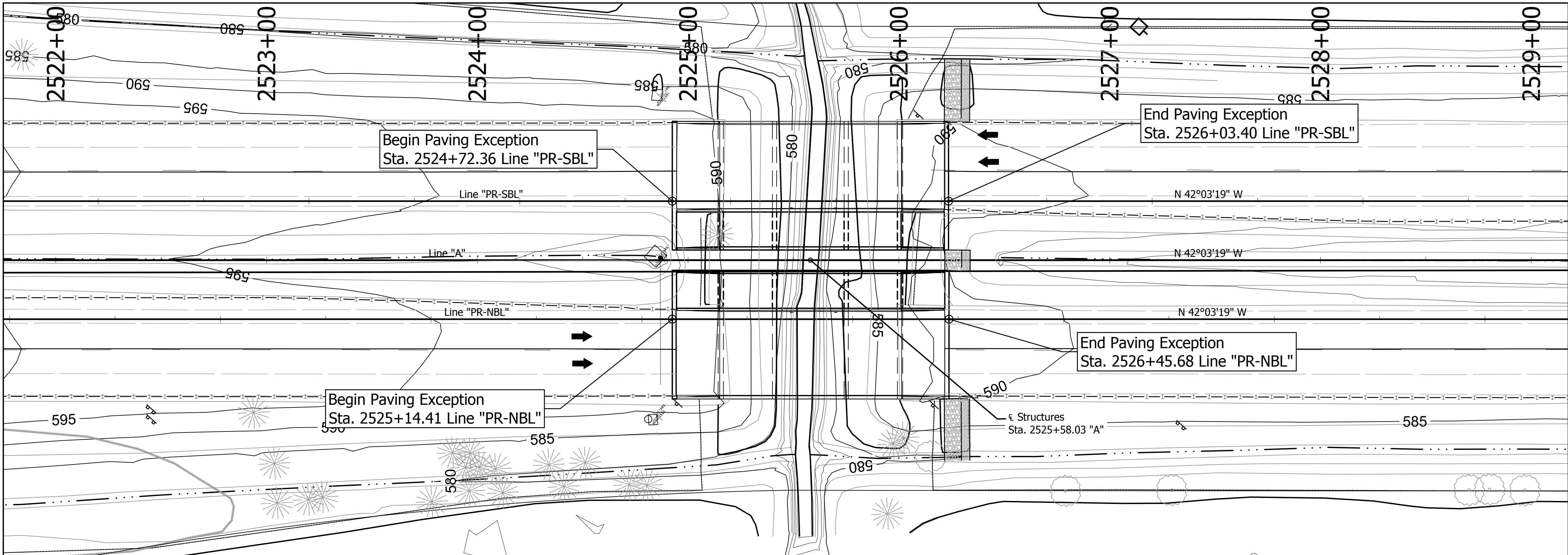
1625 N. Post Road
Indianapolis, IN 46219
Phone 317-895-2585
Fax 317-895-2596
www.ueindy.com

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 ABLE DITCH	

HORIZONTAL SCALE 3/16" = 1'-0"	BRIDGE FILE I65-056-04656 CNBL & CSBL
VERTICAL SCALE 3/16" = 1'-0"	DESIGNATION 1592595 & 1592594
SURVEY BOOK -	SHEETS 3 of 9
CONTRACT R-28940	PROJECT 0501212

File Name: p:\CADD\W616-465\Bridges\21 & 22 - I-65 over Able Ditch\Drawings\Layout 21 & 22.dwg Plot Date: 4/25/2017 Plotted By: Zabu, David



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

TWIN CONTINUOUS REINFORCED
CONCRETE SLAB BRIDGE
3 SPANS: 25'-6", 34'-0", 25'-6"
SKEW: 00°00'00" RIGHT
58'-0" CLEAR ROADWAY
I-65 OVER ABLE DITCH



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 ABLE DITCH

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE I65-056-04656 CNBL & CSBL
VERTICAL SCALE 1" = 10'	DESIGNATION 1592595 & 1592594
SURVEY BOOK -	SHEETS 4 of 9
CONTRACT R-28940	PROJECT 0501212

GENERAL NOTES

1. Existing plans for this structure are on file in the records unit of the Indiana Department of Transportation as Bridge File I65-056-04656 BNBL & BSBL.
2. 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.
3. 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.
4. Surface seal all exposed surfaces of approach slabs, face of deck coping and outer 6" of the underside of deck.
5. Stations shown are from the existing plans on file. The stations will be updated for the proposed alignment for Final Design.

DESIGN DATA

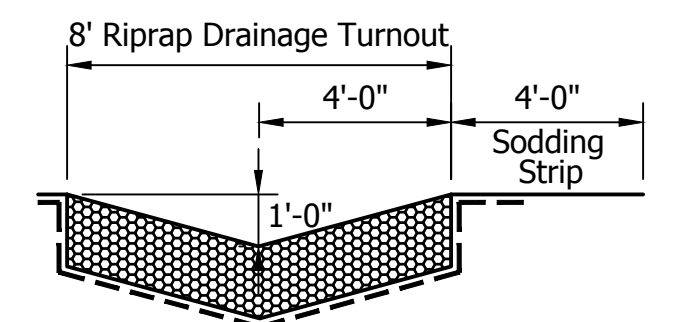
Designed for HS-20-44 loading in accordance with 2002 AASHTO Standard Specifications for Highway Bridges 17th Edition and all Subsequent Interim Specifications.

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)	$f_y = 60,000$ p.s.i.

LEGEND

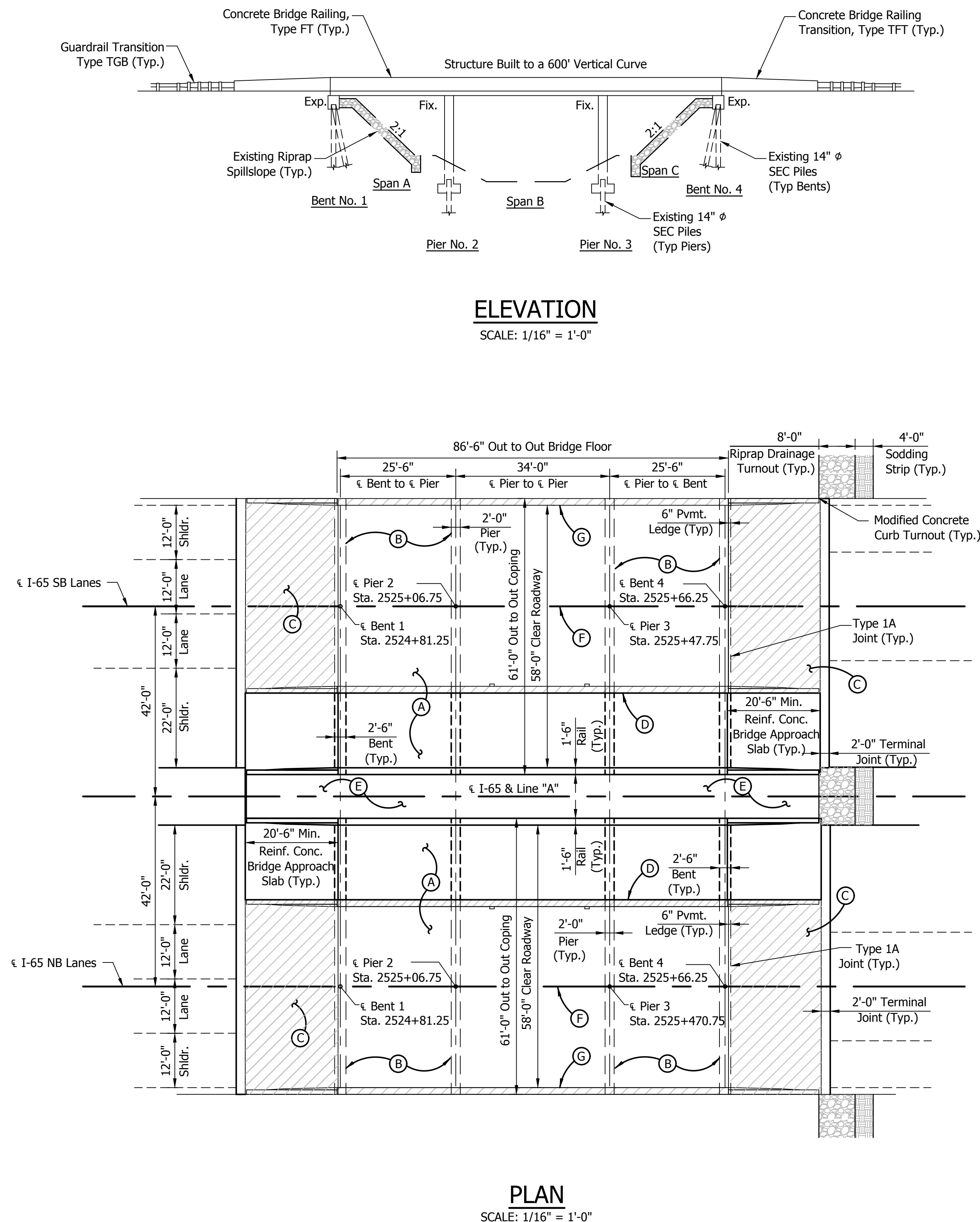
- (A) Remove the existing overlay, surface mill the existing surface and perform hydro-demolition to remove any unsound concrete, perform partial and full depth patching at all delaminated areas, widen the superstructure and substructure toward the median side, and place a variable depth latex modified or microsilica concrete overlay over the entire bridge deck.
- (B) Patch piers, superstructure, and undersides of deck as necessary to repair all delamination and spalling.
- (C) Remove and replace the existing reinforced concrete approach slabs.
- (D) Remove the existing bridge railing and 1'-6" of coping.
- (E) Extend riprap across median and widen 2' outside bridge deck.
- (F) Place new snowplowable pavement markings.
- (G) Remove and replace the existing concrete bridge railing.

 Limits of Removal

RIPRAP DRAINAGE TURNOUT

No Scale

TWIN CONTINUOUS REINFORCED
CONCRETE SLAB BRIDGE
3 SPANS: 25'-6", 34'-0", 25'-6"
SKEW: 00°00'00" RIGHT
58'-0" CLEAR ROADWAY
I-65 OVER ABLE DITCH



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

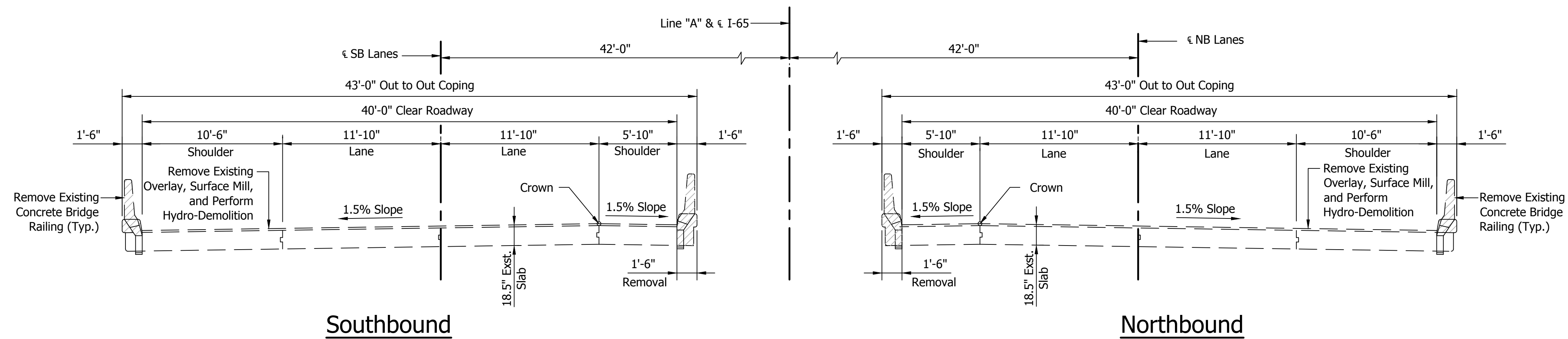
CHECKED: BSF

ED: MRL

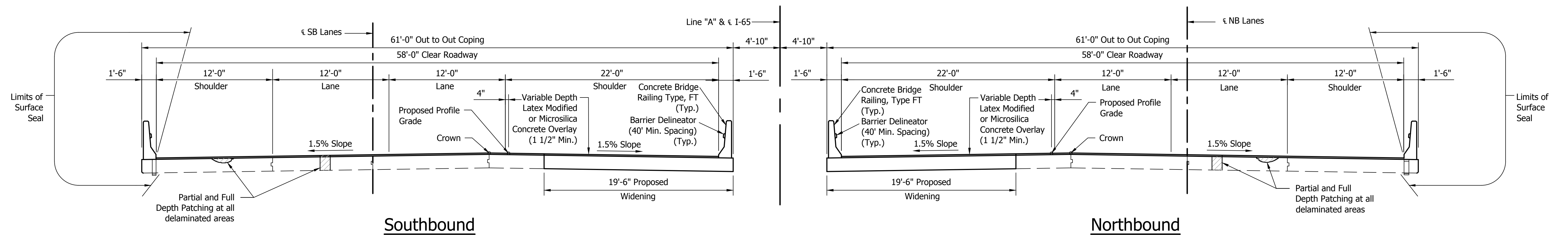
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
I-65 OVER ABLE DITCH

HORIZONTAL SCALE		BRIDGE FILE	
AS SHOWN		165-056-04656 CNBL & CSBL	
VERTICAL SCALE		DESIGNATION	
AS SHOWN		1592595 & 1592594	
SURVEY BOOK		SHEETS	
-		5	of 9
CONTRACT		PROJECT	
R-28940		0501212	



EXISTING TYPICAL SECTION
SCALE: 3/16" = 1'-0"



PROPOSED TYPICAL SECTION
SCALE: 3/16" = 1'-0"



Limits of Removal

TWIN CONTINUOUS REINFORCED
CONCRETE SLAB BRIDGE
3 SPANS: 25'-6", 34'-0", 25'-6"
SKEW: 00°00'00" RIGHT
58'-0" CLEAR ROADWAY
I-65 OVER ABLE DITCH



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

RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

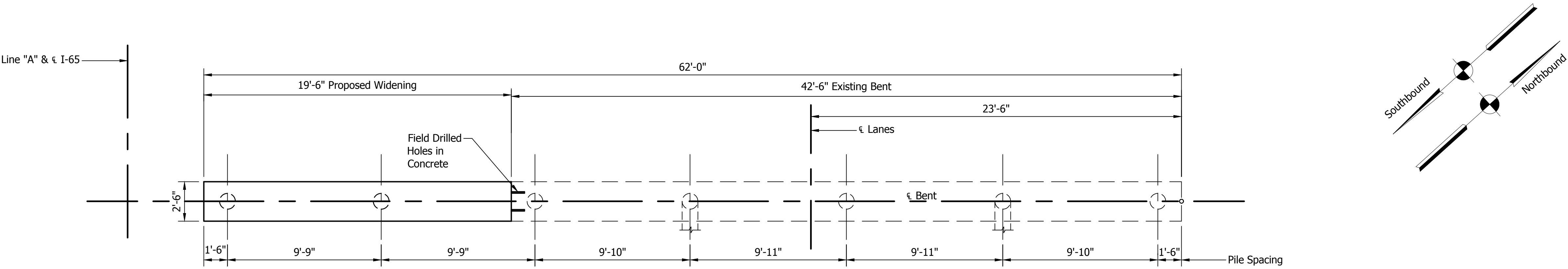
DESIGNED: MRL DRAWN: DJZ

CHECKED: BSF CHECKED: MRL

INDIANA
DEPARTMENT OF TRANSPORTATION

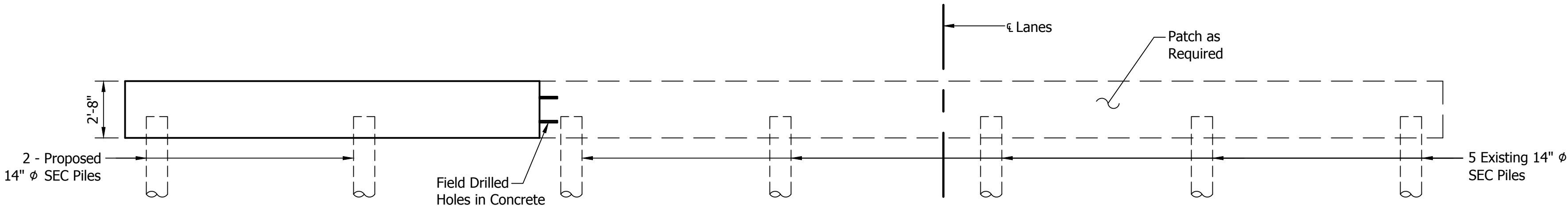
GENERAL PLAN
I-65 OVER ABLE DITCH

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	I65-056-04656 CNBL & CSBL
VERTICAL SCALE	DESIGNATION
AS SHOWN	1592595 & 1592594
SURVEY BOOK	SHEETS
-	6 of 9
CONTRACT	PROJECT
R-28940	0501212



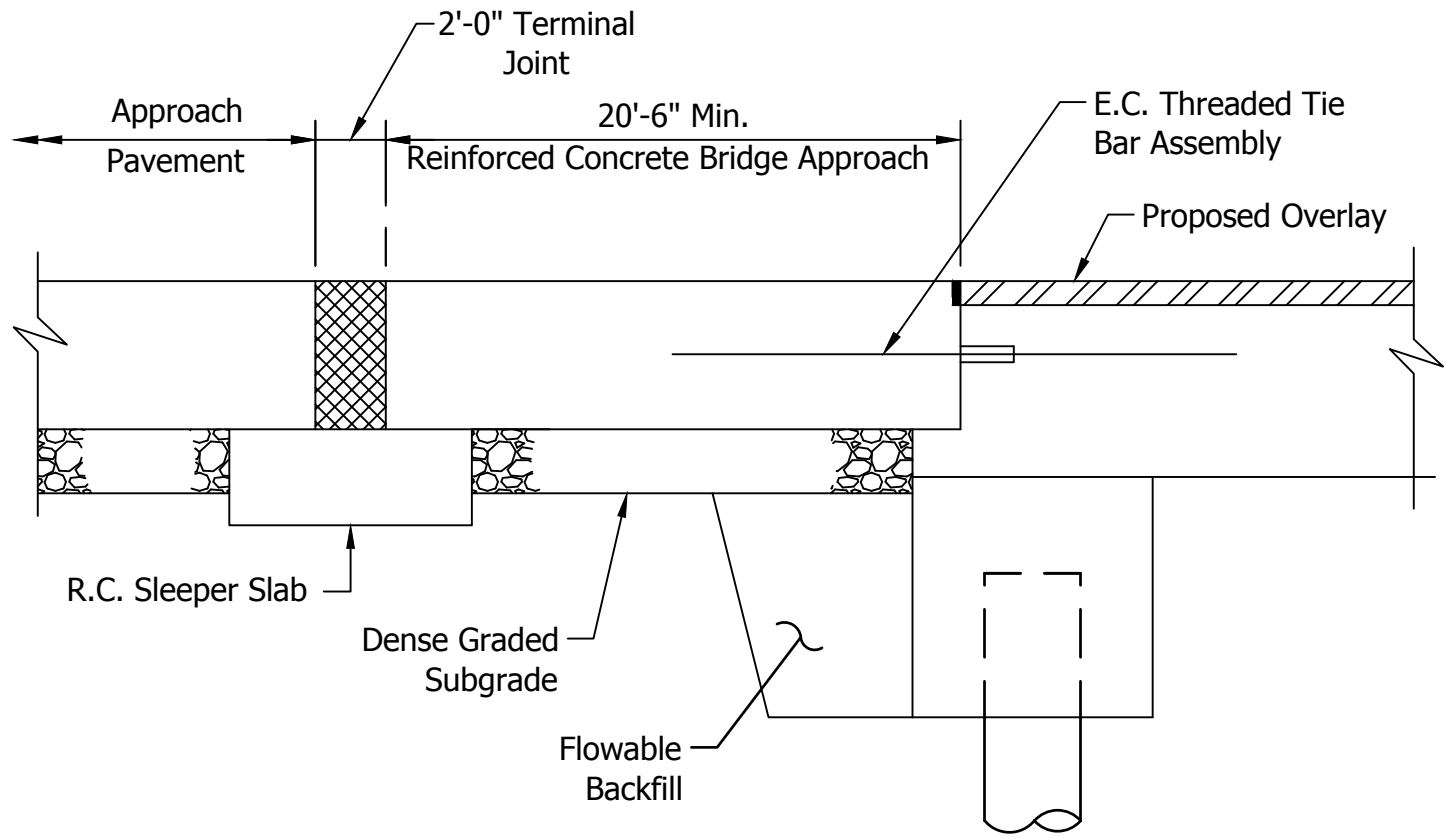
TYPICAL BENT SECTION

SCALE: 1/4" = 1'-0"
(Bent 1 shown, Bent 4 same by opposite hand)



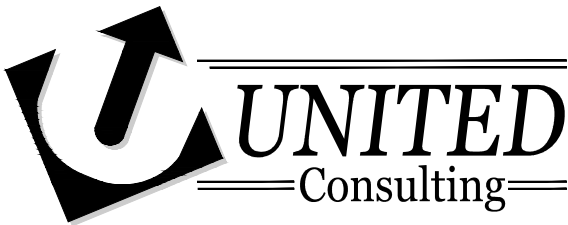
TYPICAL BENT ELEVATION

SCALE: 1/4" = 1'-0"
(Ben1 shown, Bent 4 same by opposite hand)



HALF LONGITUDINAL SECTION

SCALE: NONE



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

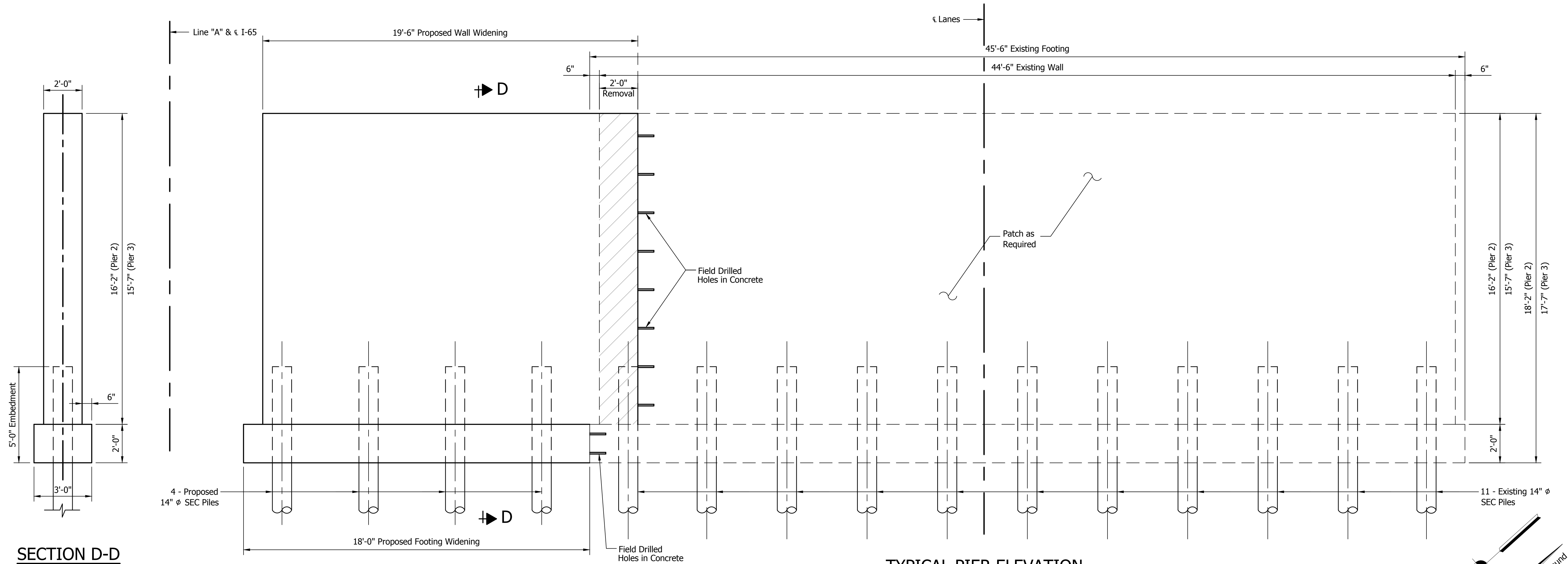
RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER DATE

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

INDIANA
DEPARTMENT OF TRANSPORTATION

BENT DETAILS
I-65 OVER ABLE DITCH

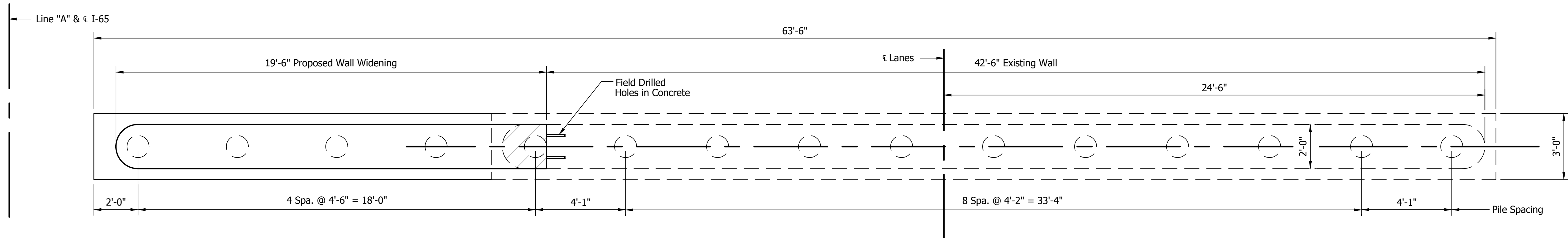
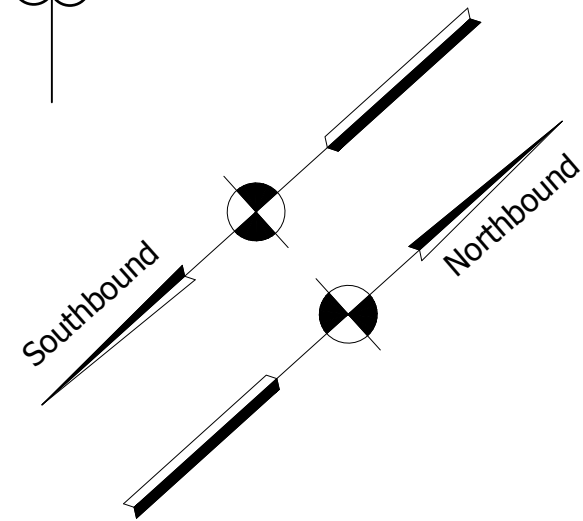
HORIZONTAL SCALE	BRIDGE FILE		
AS SHOWN	I65-056-04656 CNBL & CSBL		
VERTICAL SCALE	DESIGNATION		
AS SHOWN	1592595 & 1592594		
SURVEY BOOK	SHEETS		
-	7	of	9
CONTRACT	PROJECT		
R-28940	0501212		



SECTION D-D
SCALE: 3/8" = 1'-0"

TYPICAL PIER ELEVATION

SCALE: 3/8" = 1'-0"
(Southbound shown, Northbound same by opposite hand)



TYPICAL PIER PLAN

SCALE: 3/8" = 1'-0"
(Southbound shown, Northbound 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

PIER DETAILS
I-65 OVER ABLE DITCH

HORIZONTAL SCALE		BRIDGE FILE	
AS SHOWN		I65-056-04656 CNBL & CSBL	
VERTICAL SCALE		DESIGNATION	
AS SHOWN		1592595 & 1592594	
SURVEY BOOK		SHEETS	
-		8	of 9
CONTRACT		PROJECT	
R-28940		0501212	

[illegible]

** ESTIMATED QUANTITY

 1625 N. Post Road Indianapolis, IN 46219 Phone 317-895-2585 Fax 317-895-2596 www.ucindy.com	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE _____ BRIDGE FILE _____ VERTICAL SCALE _____ DESIGNATION _____ N/A _____ 1592595 & 1592594
	DESIGNED: <u>MRL</u> DRAWN: <u>DJZ</u>		BRIDGE SUMMARY TABLE I-65 OVER ABLE DITCH		SURVEY BOOK _____ SHEETS _____ - 9 of 9
	CHECKED: <u>BSF</u> CHECKED: <u>MRL</u>				CONTRACT _____ PROJECT _____ R-28940 0501212