PROJECT	DESIGNATION
1383332	1383514 & 1383515
CONTRACT	BRIDGE FILE
R-37053	I69-213-05321CNBL/CSBL

INDEX				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
I69-213-05321CNBL/CSBL	CONTINUOUS COMPOSITE STEEL BEAM	TWO SPANS: 73'-0" & 73'-0" SKEW 2°01'00" Left	S.R. 13	788+48.28 "A"

KIN DESIGNATION NUMBERS		
DESIGNATION	DESCRIPTION	TYPE
1383486 & 1383487	I-69 OVER SAND CREEK	BRIDGE
1383332	I-69 ADDED TRAVEL LANES FROM 116TH ST. TO 0.56 MILE EAST OF CAMPUS PKWY/SOUTHEASTERN PKWY	ROADWAY
1383488	BROOKS SCHOOL RD OVER I-69	BRIDGE
1383489 & 1383490	CAMPUS PARKWAY INTERCHANGE	ROADWAY/BRIDGE
1383336	I-69 ADDED TRAVEL LANES FROM 0.56 MILE EAST OF CAMPUS PKWY/SOUTHEASTERN PKWY TO 0.42 MILE EAST OF S.R. 13	ROADWAY
1383509 & 1383510	I-69 OVER MUD CREEK	BRIDGE
1383512 & 1383513	I-69 OVER THORPE CREEK	BRIDGE
1383337	I-69 ADDED TRAVEL LANES FROM 0.42 MILE EAST OF S.R. 13 TO LAPEL ROAD	ROADWAY
1383623	C.R. 650 W. OVER I-69	BRIDGE
1383624 & 1383625	I-69 OVER FOSTERS BRANCH	BRIDGE

R-37053
SET 10 OF 12

INDIANA DEPARTMENT
OF TRANSPORTATION

BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET
I-69
OVER
S.R. 13

PROJECT NO. 1383332 P.E.

RP 214+45

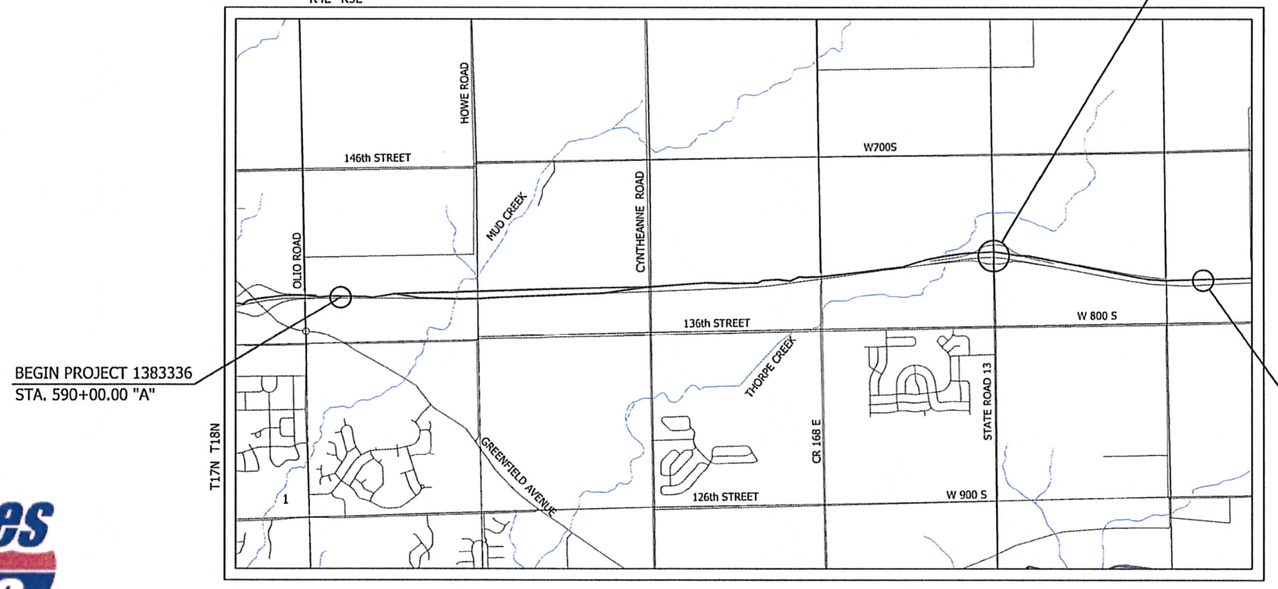
Bridge Rehabilitation and Widening Project on Structure I69-213-05312CNBL/CSBL over State Road 13, Located in Sections 21 and 22, of Township 18 North, Range 6 East, Madison County Indiana.

TRAFFIC DATA	I-69
A.D.T. (2015)	56,140 V.P.D.
A.D.T. (2035)	66,190 V.P.D.
D.H.V. (2035)	5,296 V.P.H.
DIRECTIONAL DISTRIBUTION	49% NB/51% SB
TRUCKS	10% A.A.D.T.
	5% D.H.V.
DESIGN DATA	I-69
DESIGN SPEED	70 M.P.H.
PROJECT DESIGN CRITERIA	PARTIAL RECONSTRUCTION (4R) (FREEWAY)
FUNCTIONAL CLASSIFICATION	INTERSTATE
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	LEVEL
ACCESS CONTROL	FULL

PROJECT LOCATION SHOWN BY

LATITUDE: 39°59'42"N LONGITUDE: 85°50'36"W

BRIDGE LENGTH :	0.029 MI.
ROADWAY LENGTH :	SEE ROADWAY PLANS
TOTAL LENGTH :	SEE ROADWAY PLANS
MAX GRADE :	+1.60%



Scale 1" = 2000'

LOCATION MAP
MADISON COUNTY

CERTIFIED TRUE COPY
SET 6 of 6

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

MajorMoves 2020

UNITED Consulting
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: Michael A. Rowe 9.17.15 DATE

APPROVED FOR LETTING: INDIANA DEPARTMENT OF TRANSPORTATION DATE

MICHAEL A. ROWE REGISTERED No. 10001062 STATE OF INDIANA PROFESSIONAL ENGINEER

	BRIDGE FILE
	I69-213-05321CNBL/CSBL
	DESIGNATION
	1383514 & 1383515
SURVEY BOOK	SHEETS
	1 of 10
CONTRACT	PROJECT
R-37053	1383332

UTILITIES

Communication

AT&T Indiana
5858 N. College Ave.
Indianapolis, IN 46220
Brian Cravens 317-252-5003
bc3785@att.com

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Jason Kirkman 317-632-9077 x 258
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Jim Highsmith 585-697-5145
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Jeff Lacer 317-569-2800
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Indiana Fiber Network, LLC
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Larry Benson 317-713-8922
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Zayo Bandwidth Indiana, LLC
701 W. Henry Street, Suite 201
Indianapolis, IN 46225
Jim Kellam 317-524-5712
jim.kellan@zayo.com

Sanitary Sewer

Citizens Energy Group
2150 Dr. Martin Luther King Jr. St.
Indianapolis, IN 46202
Tracey Trimpe
ttrimpe@citizensenergygroup.com

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197 W. Washington St.
Noblesville, IN 46060
Kirk Staley 317-776-6353

Fall Creek Regional Waste District
P.O. Box 59
Pendelton, IN 46064
Tim McCurdy 765-778-7544
tmccurdy@fcrwd.com

Hamilton Southeastern Utilities
11901 Lakeside Dr.
Fishers, IN 46038
Tom Kallio 317-690-1573
tkallio@samcoinc.us

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16000 Allisonville Rd. - P.O. Box 1700
Noblesville, IN 46204
Brian Harger 317-776-5534
bharger@vectren.com

Vectren Energy
2001 Rev Jt Menifee Street
Anderson, IN 46216-3741
Mike Johnson 765-648-3205
mejohnson@vectren.com

Petroleum

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539 South Main Street, RM 7642
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Dave Wisner 419-421-2211
dswisner@marathonpetroleum.com

Storm Sewer

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1 Municipal Dr.
Fishers, IN 46038
Tami Otto 317-595-3160
ottot@fishers.in.us

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Citizens Energy Group
1220 Waterway Boulevard
Indianapolis, IN 46206
Scott Ritter
sritter@citizensenergygroup.com

Town of Ingalls
5835 Lawton Loop East Drive
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Lou Savka 317-377-5230
isavka@triadassoc.net

Electric

Duke Energy Indiana, Inc.
1619 W. Deffenbaugh St.
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Connie Maus 765-454-6180
connie.maus@duke-energy.com

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Alpharetta, GA 30005
Joel McKinney 770-335-9816
jcmckinney@att.com

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Konstantin Veygman 317-899-8606
kveygman@indot.in.gov

Traffic Structures

HERE
425 West Randolph
Chicago, IL 60606
Alexandra Archer 773-747-4247
Alexandra.Archer@HERE.com

REVISIONS

SHEET No.	DATE	REVISION

INDEX

SHEET NO.	DESCRIPTION
1	TITLE
2	INDEX
3	MAINTENANCE OF TRAFFIC
4	LAYOUT
5-7	GENERAL PLAN
8-10	SUBSTRUCTURE DETAILS

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Fax 317-895-2596
www.ucindy.com

JAY N. RIDENS REGISTERED No. 10403475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/17/15 DATE

DESIGNED: NJK DRAWN: AJM
CHECKED: JNR CHECKED: NJK

INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX
I-69 OVER S.R. 13

HORIZONTAL SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEETS
-	2 of 10
CONTRACT	PROJECT
R-37053	1383332

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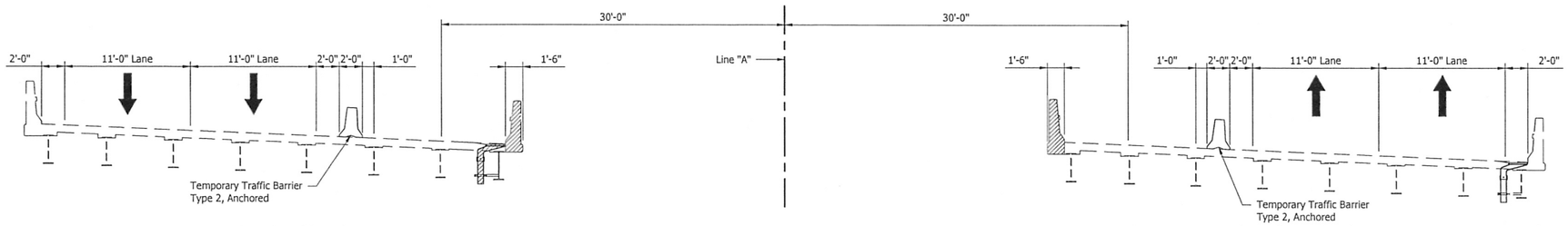
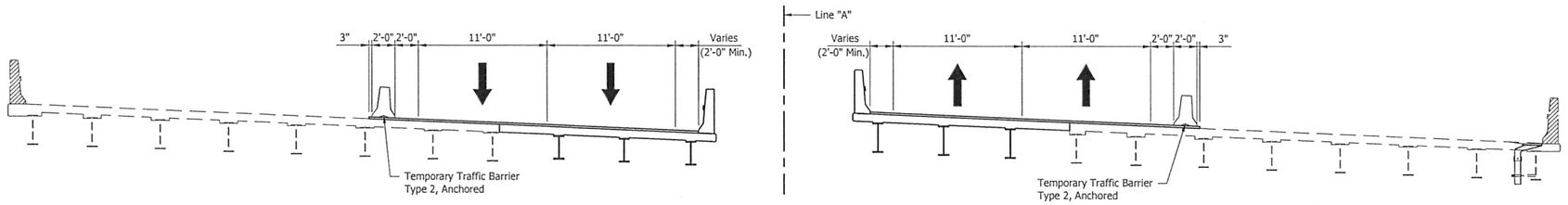


SOUTHBOUND LANE

NORTHBOUND LANE

TRAFFIC MAINTENANCE SECTION - PHASE II

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



SOUTHBOUND LANE

NORTHBOUND LANE

TRAFFIC MAINTENANCE SECTION - PHASE III

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

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www.ucindy.com

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RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 9/17/15

DESIGNED: NJK | DRAWN: AJM

CHECKED: JNR | CHECKED: NJK

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
I-69 OVER S.R. 13

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-213-05321CNBL/CSBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1383514 & 1383515
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
R-37053	1383332

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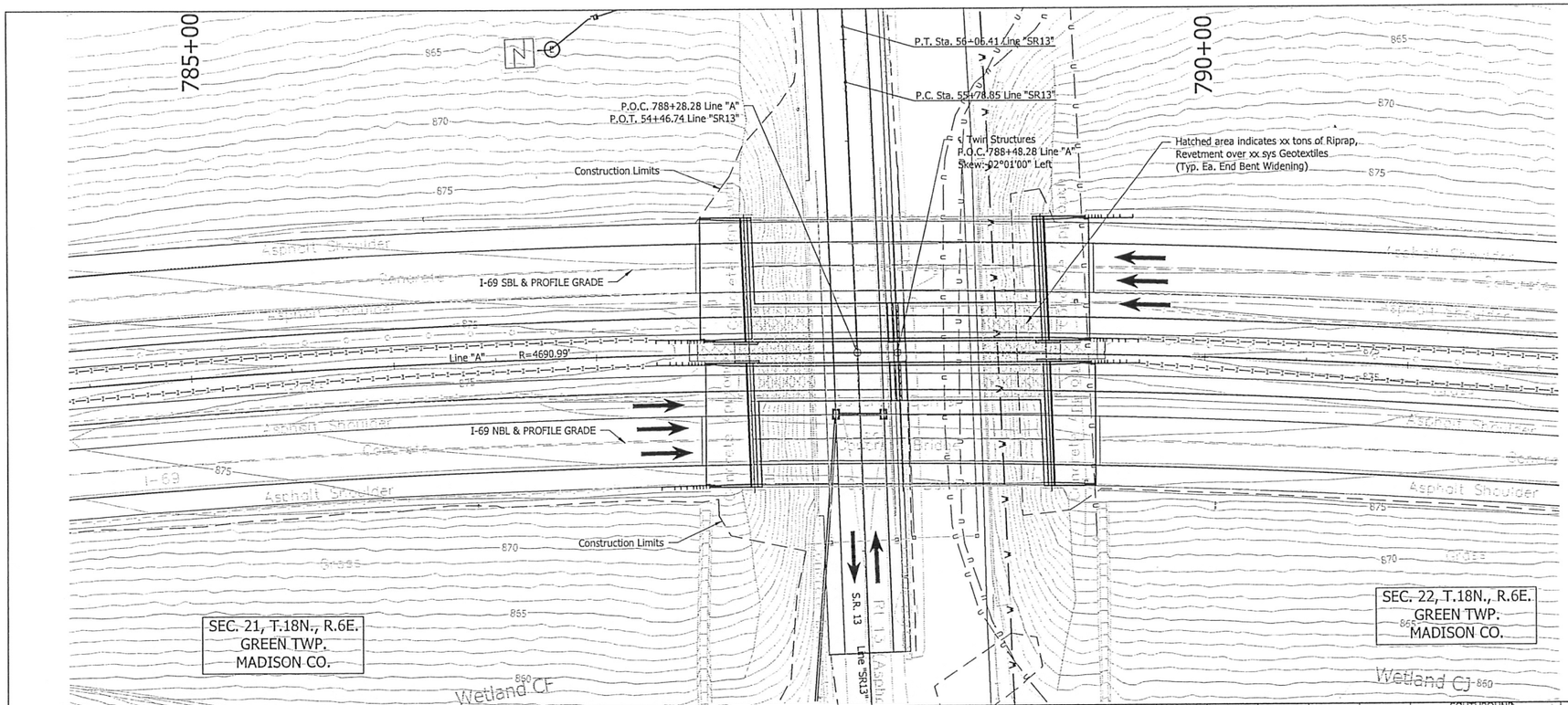
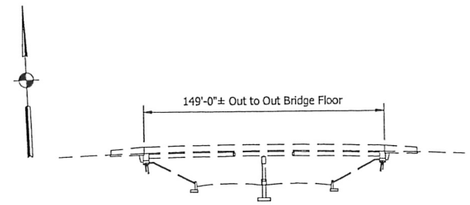


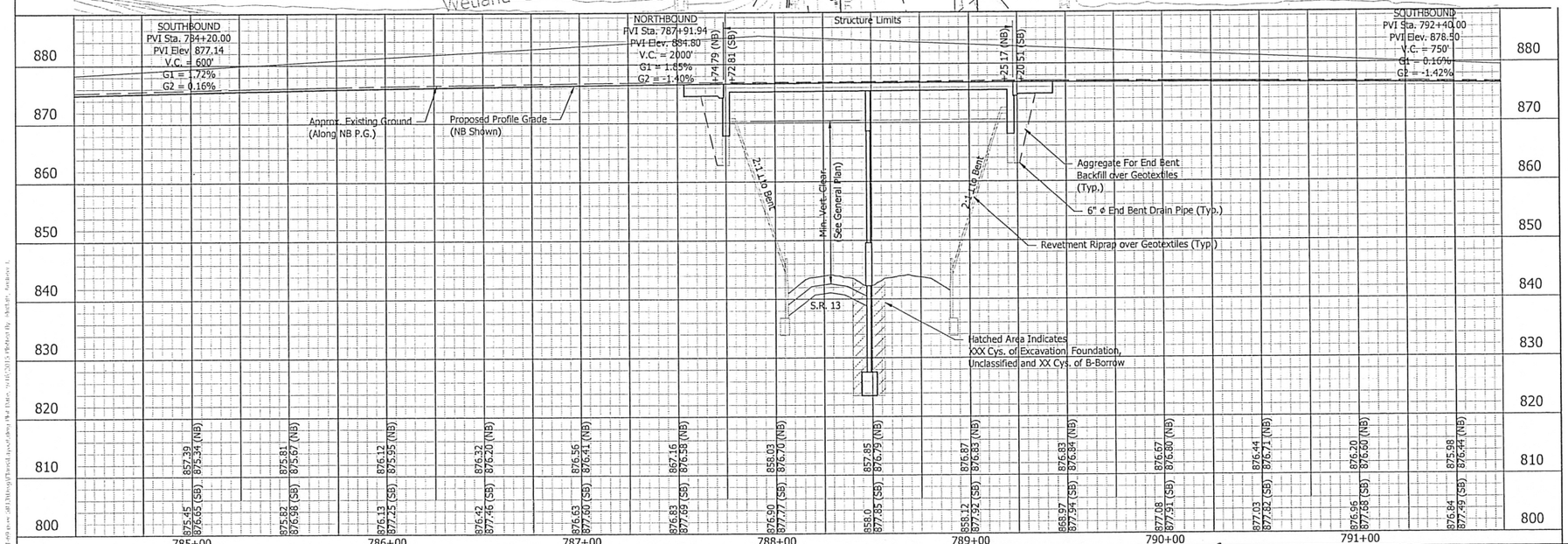


Existing Clear Roadway = 40'-6"

Portions of Existing Bridge Deck, End Bents, & Piers To Be Removed

EXISTING STRUCTURE

No Scale



NOTES:

For R/W, Earthwork Summary and Additional information see Roadway Plans, Des. No. 1383336.

For Utility Contacts, see Index Sheet No. 2.

I-69 OVER S.R. 13
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
2 SPANS: 73'-0", 73'-0"
SKEW: 2°01'00" LT
58'-3" CLEAR ROADWAY
MADISON COUNTY

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1625 N. Post Road
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STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
9/17/15
DATE

DESIGNED: NJK
DRAWN: AJM
CHECKED: JNR
CHECKED: NJK

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
I-69 OVER S.R. 13

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	I69-213-05321CNBI/CSBL
VERTICAL SCALE	DESIGNATION
1" = 10'	1383514 & 1383515
SURVEY BOOK	SHEETS
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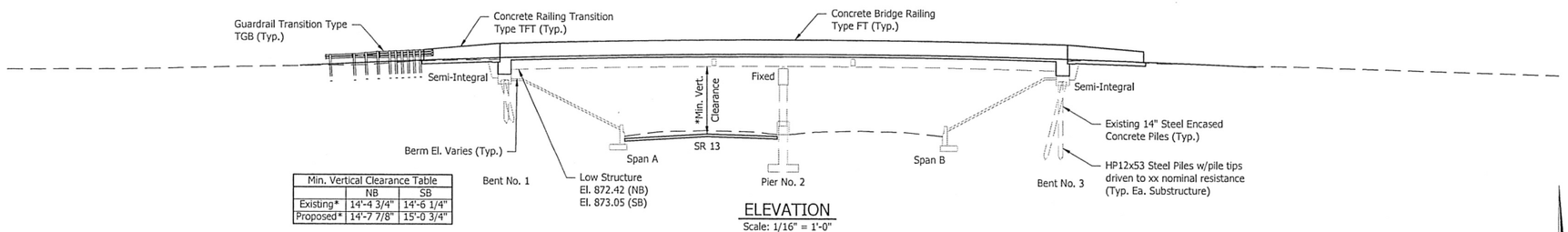
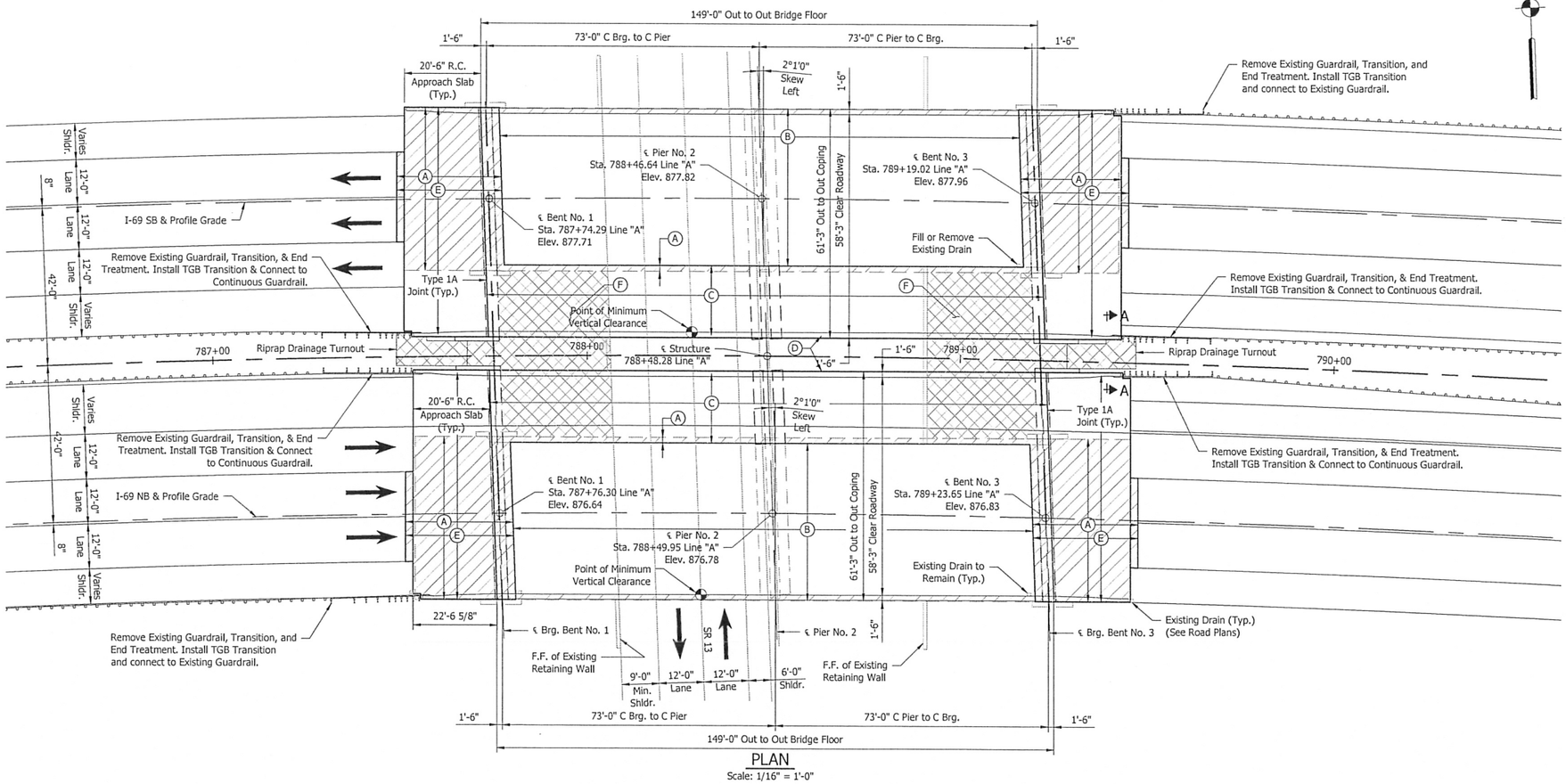
STRUCTURE TO BE BUILT TO A VERTICAL CURVE



Min. Vertical Clearance Table		
	NB	SB
Existing*	14'-4 3/4"	14'-6 1/4"
Proposed*	14'-7 7/8"	15'-0 3/4"

ELEVATION

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



PLAN

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

GENERAL NOTES

Reinforcing steel covering shall be 2½" in Top and 1" min. in bottom of floor slabs, 3" in footing except bottom steel which shall be 4", and 2" in all other parts, unless noted.

All New Reinforcement Shall be Epoxy Coated.

Surface Seal Shall be Applied to the Approach Slabs, All Exposed Surfaces of Concrete Railings and Railing Transitions, and Deck Copings.

Plans for the Existing Structure are on file in the Central Office, Indiana Dept. of Transportation as Bridge File No. I69-13-5321, I69-13-5321A, I69-13-5321B and are available upon request.

DESIGN DATA

Superstructure & Substructure Designed for HS-20 Loading in accordance with AASHTO Standard Specifications Seventeenth Edition, 2002, and subsequent interims. Designed for actual dead load plus 35 psf. of future wearing surface.

SEISMIC DESIGN DATA

Seismic Performance Zone = Zone 1
Acceleration Coefficient (S_{D1}) = 0.113
Seismic Soil Profile Type = Site Class D

DESIGN STRENGTHS

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.

LEGEND

(A) Remove Existing Roadway Pavement, Bridge Approach Railings, Approach Slabs, Joint Material, Terminal Joints, 5'-0" Width of Existing Deck Slab over End Bents, Portions of Existing Deck Coping and both Railings.

(B) Perform Deck scarification (1/2" SB, 1 3/4" NB) and Hydraulic Demolition.

(C) Construct Lengthened Piers and End Bents as well as Proposed Beams and Bridge Deck, to accommodate New Clear Roadway Width.

(D) Install New Type FT Concrete Bridge Railings.

(E) Construct New 5'-0" Width Deck Slab, FT Railing and Semi-Integral End Bents, R.C. Bridge Approach Slabs, Slab Extensions, Bridge Railing Transitions and Terminal Joints.

(F) Hand-Place Revetment Riprap in Area between Widened Structures.

(G) Remove Unsound Concrete and Place Pneumatically Placed Mortar on SB and NB Crashwall.

Limits of Removal

Limits of Additional Revetment Riprap

NOTES:
See Typical Sections and Substructure Details, for Additional Information.

I-69 OVER S.R. 13
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
2 SPANS: 73'-0" & 73'-0"
SKEW: 2°01'00" LT
58'-3" CLEAR ROADWAY
MADISON COUNTY

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

JAY N. RIDENS REGISTERED No. 10403475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 9/17/15

DESIGNED: NJK | DRAWN: AJM
CHECKED: JNR | CHECKED: NJK

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
I-69 OVER S.R. 13

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-213-05321CNBL/CSBL
VERTICAL SCALE	DESIGNATION
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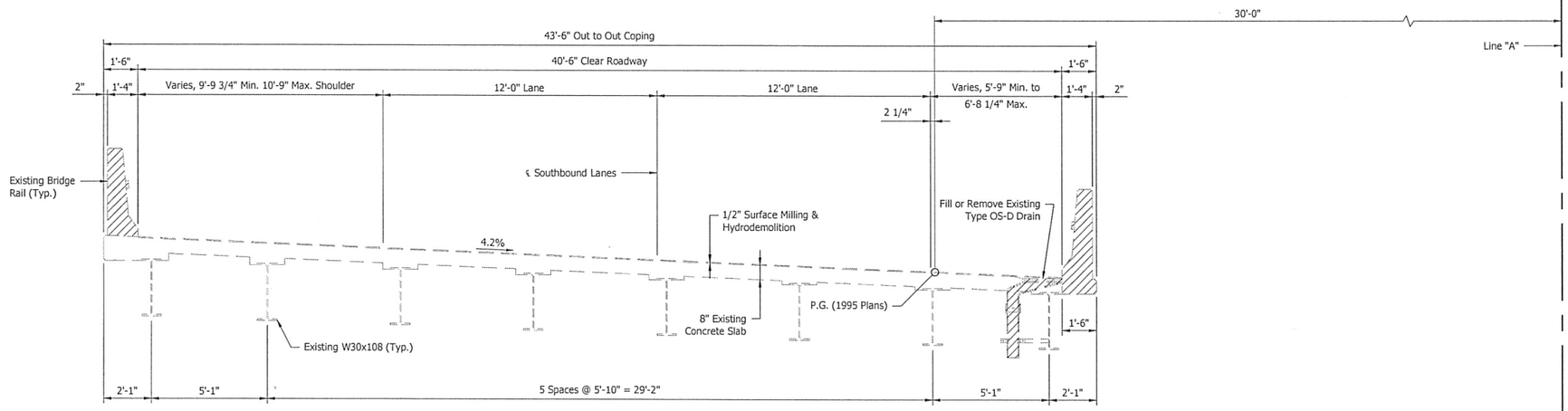
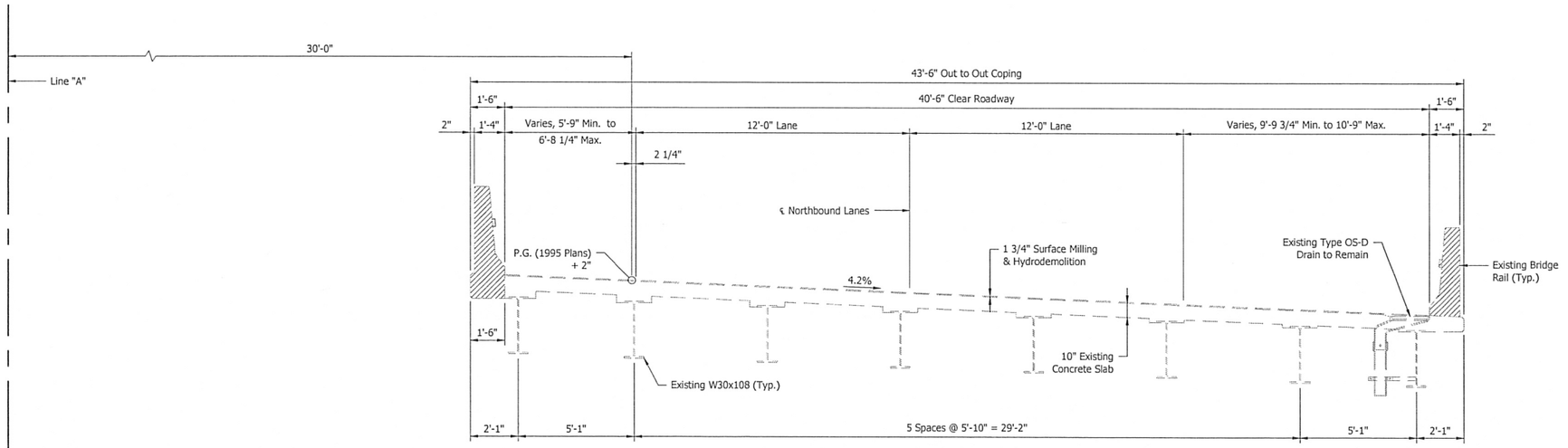
R-37053	1383332

File Name: P:\C3D\MK15-469\Bridge\I-69 over SR13\Dwg\Plans\GP.dwg Plot Date: 9/17/2015 Plotted By: Moffatt, Andrew J.



EXISTING SOUTHBOUND TYPICAL SECTION

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



EXISTING NORTHBOUND TYPICAL SECTION

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

Indicates Limits of Removal

I-69 OVER S.R. 13
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
SPANS: 73'-0" & 73'-0"
SKEW: 2°01'00" LT
58'-3" CLEAR ROADWAY
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INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
I-69 OVER S.R. 13

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-213-05321CNBL/CSBL
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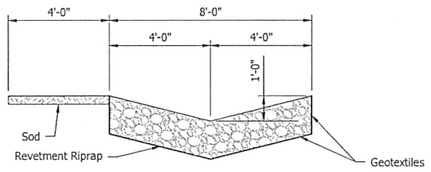
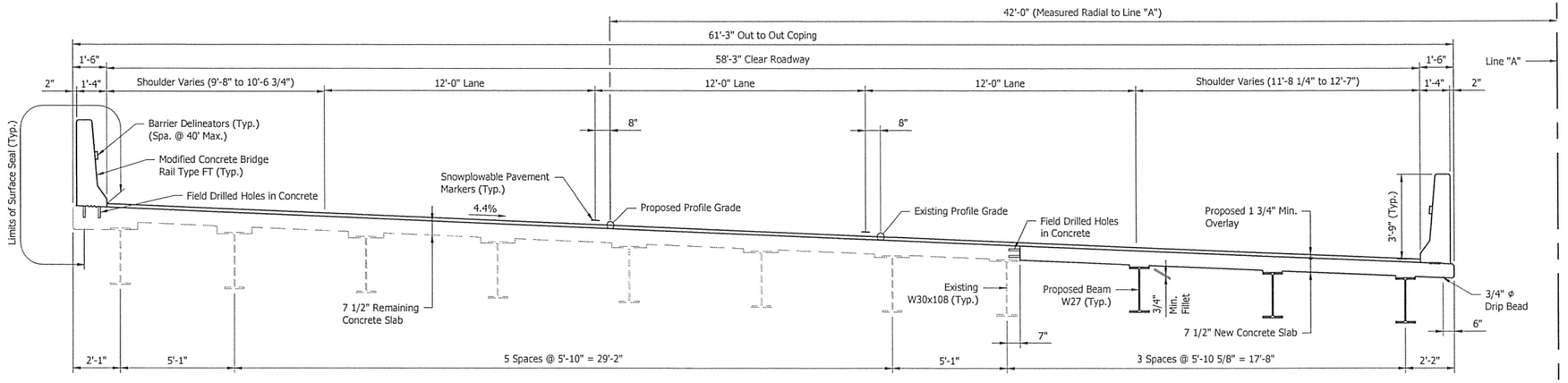
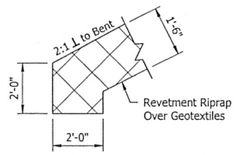


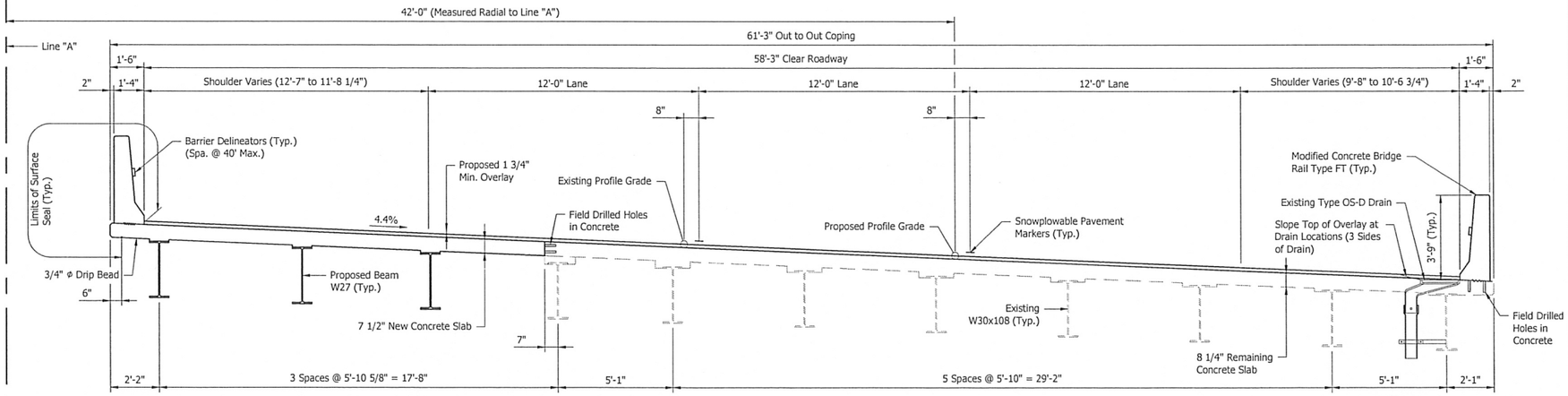
RIPRAP DRAINAGE TURNOUT
TYPICAL SECTION
No Scale



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



RIPRAP KEY DETAIL
No Scale



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

NOTES:
All dimensions measured perpendicular to existing coping unless otherwise noted.

I-69 OVER S.R. 13
CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
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SKEW: 2°01'00" LT
58'-3" CLEAR ROADWAY
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INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
I-69 OVER S.R. 13

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-213-05321CNBL/CSBL
VERTICAL SCALE	DESIGNATION
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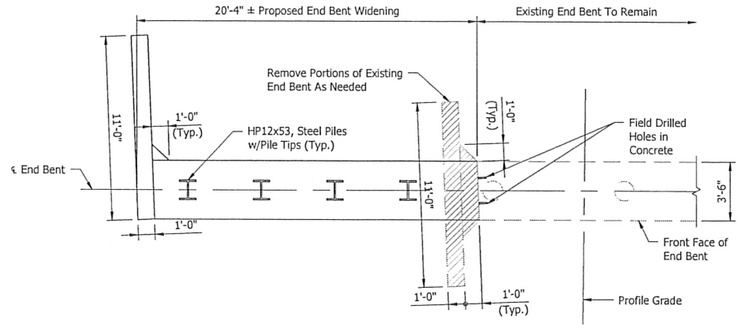
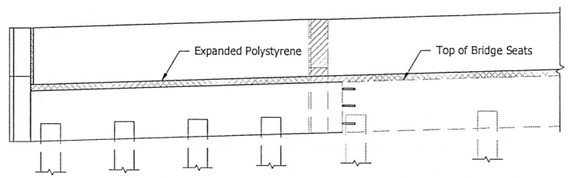


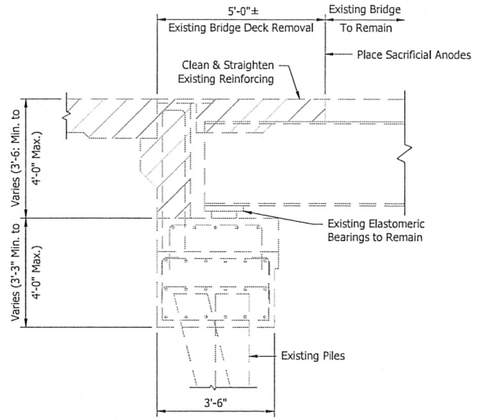
PLAN - TYPICAL END BENT WIDENING

(NORTHBOUND BENT NO. 3 SHOWN)
Scale: 1/4" = 1'-0"



ELEVATION - TYPICAL END BENT WIDENING

(NORTHBOUND BENT NO. 3 SHOWN)
Scale: 1/4" = 1'-0"



TYPICAL SECTION - EXISTING END BENT REMOVAL

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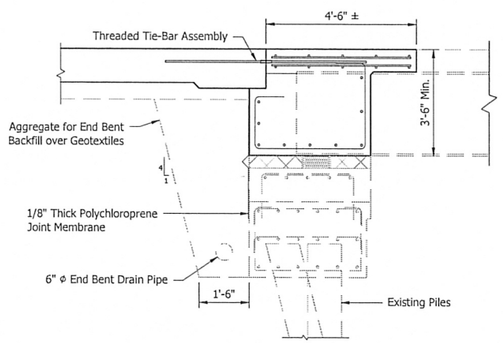
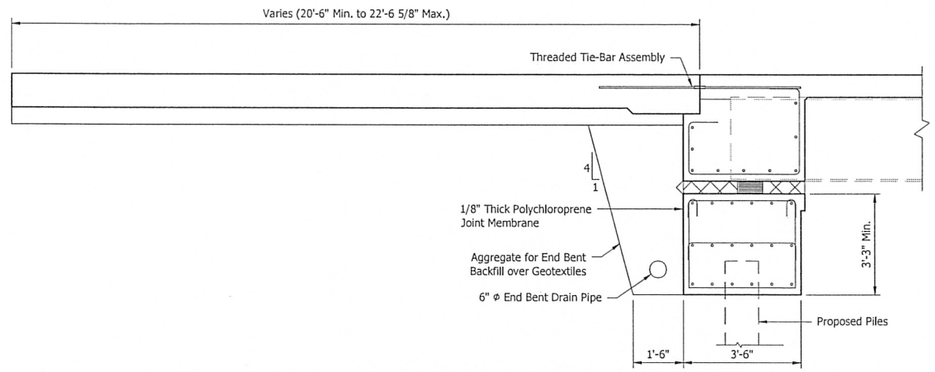


TYPICAL SECTION - EXISTING END BENT TO REMAIN

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



TYPICAL SECTION - PROPOSED END BENT WIDENING

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

UNITED Consulting
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JAY N. RIDENS REGISTERED No. 10403475 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 9/17/15

DESIGNED: NJK | DRAWN: AJM
CHECKED: JNR | CHECKED: NJK

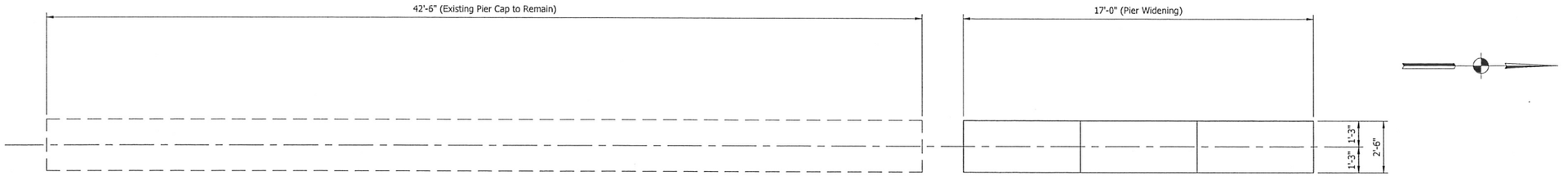
INDIANA
DEPARTMENT OF TRANSPORTATION

END BENT DETAILS
I-69 OVER S.R. 13

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-213-05321CNBL/CSBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1383514 & 1383515

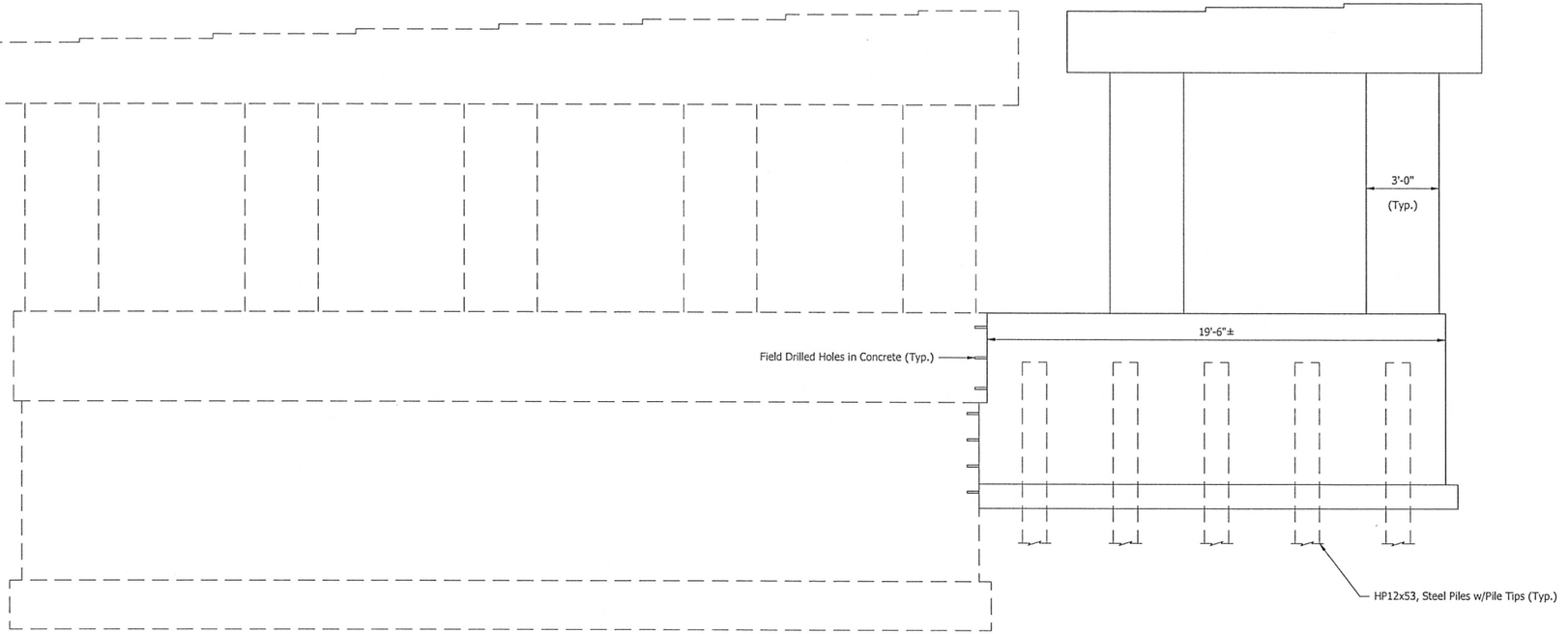
SURVEY BOOK	SHEETS
-	8 of 10
CONTRACT	PROJECT
R-37053	1383332

File Name: P:\C3D\MK15-469\Bridge\I-69 over SR13\Dwg\Plans\SUBSTRUCTURE DETAILS.dwg Plot Date: 9/17/2015 Plotted By: Moffatt, Andrew J.



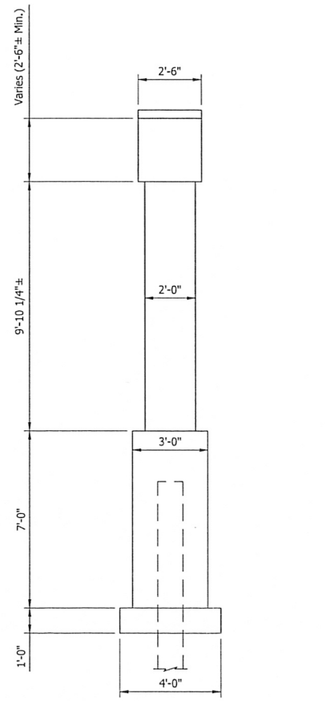
PLAN - PROPOSED NORTHBOUND PIER WIDENING

(LOOKING BEHIND STATION)
Scale: 3/8" = 1'-0"



ELEVATION - PROPOSED NORTHBOUND PIER WIDENING

(LOOKING BEHIND STATION)
Scale: 3/8" = 1'-0"



PROPOSED TYPICAL SECTION

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

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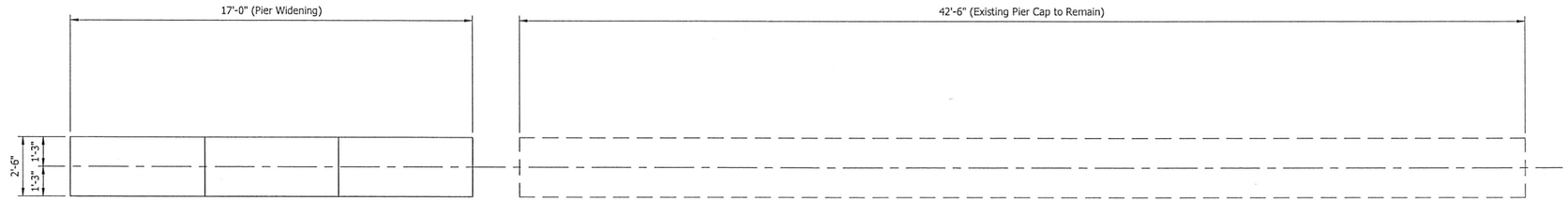
CHECKED: JNR | CHECKED: NJK

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
I-69 OVER S.R. 13

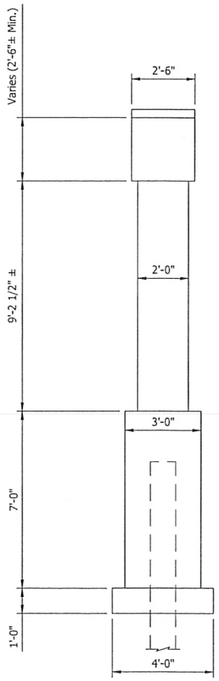
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	169-213-05321CNBL/CSBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1383514 & 1383515
SURVEY BOOK	SHEETS
-	9 of 10
CONTRACT	PROJECT
R-37053	1383332

File Name: P:\C3D\MK15-469\Bridge\I-69 over SR13\Dwg\Plans\SUBSTRUCTURE DETAILS.dwg Plot Date: 9/17/2015 Plotted By: Moffatt, Andrew J.



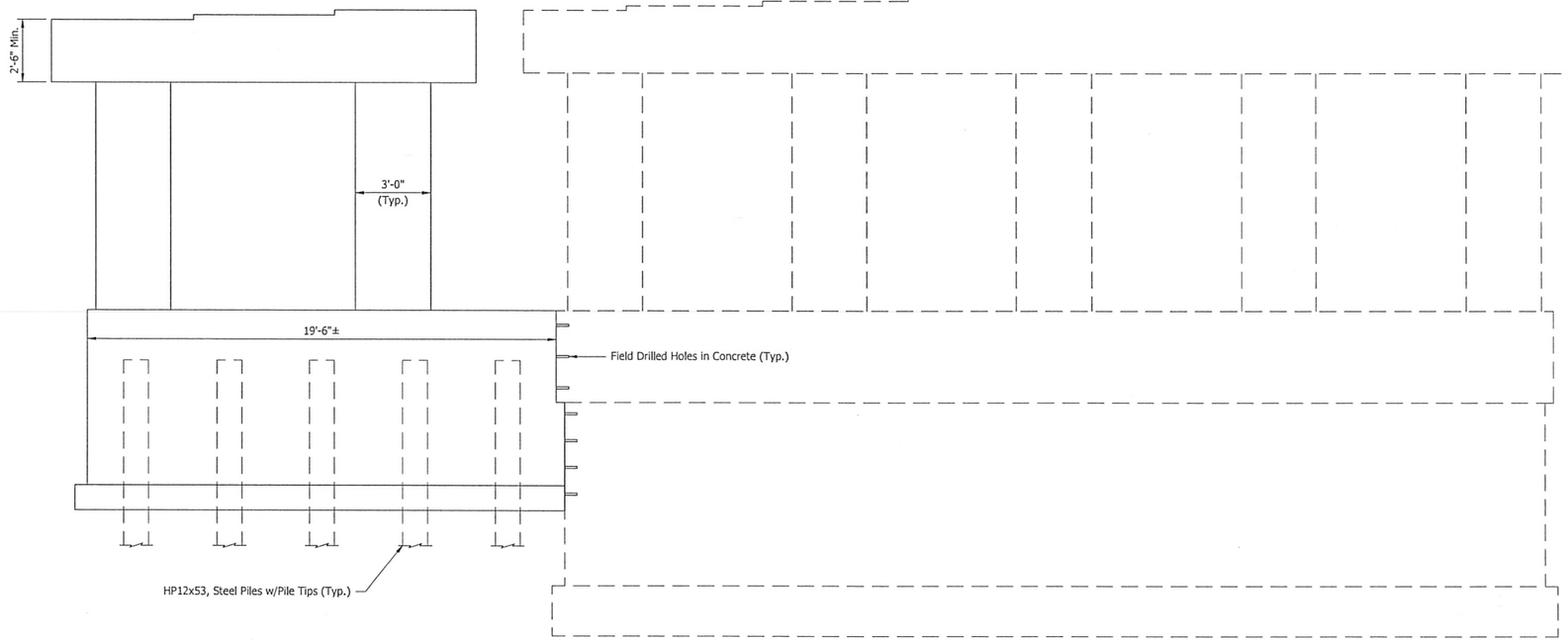
PLAN - PROPOSED SOUTHBOUND PIER WIDENING

(LOOKING BEHIND STATION)
Scale: 3/8" = 1'-0"



PROPOSED TYPICAL SECTION

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



ELEVATION - PROPOSED SOUTHBOUND PIER WIDENING

(LOOKING BEHIND STATION)
Scale: 3/8" = 1'-0"

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER — DATE 9/17/15

DESIGNED: NJK | DRAWN: DJZ | CHECKED: JNR | CHECKED: NJK

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
I-69 OVER S.R. 13

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	I69-213-05321CNBL/CSBL
VERTICAL SCALE	DESIGNATION
AS NOTED	1383514 & 1383515

SURVEY BOOK	SHEETS
-	10 of 10
CONTRACT	PROJECT
R-37053	1383332

File Name: P:\CAD\MK\15-469\Bridge\I-69 over SR13\Dwg\Plans\SUBSTRUCTURE DETAILS.dwg Plot Date: 9/17/2015 Plotted By: Moffatt, Andrew J.