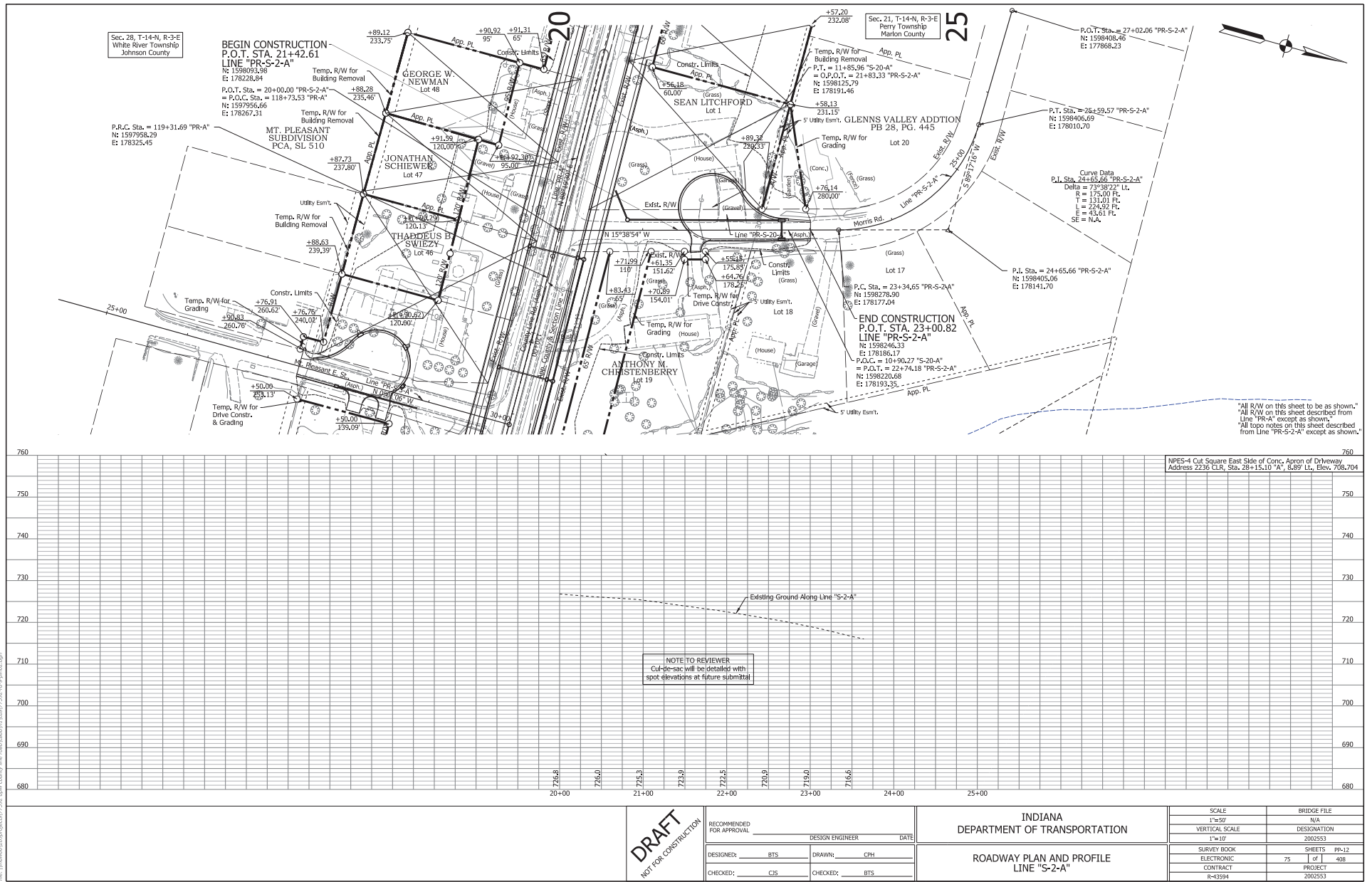


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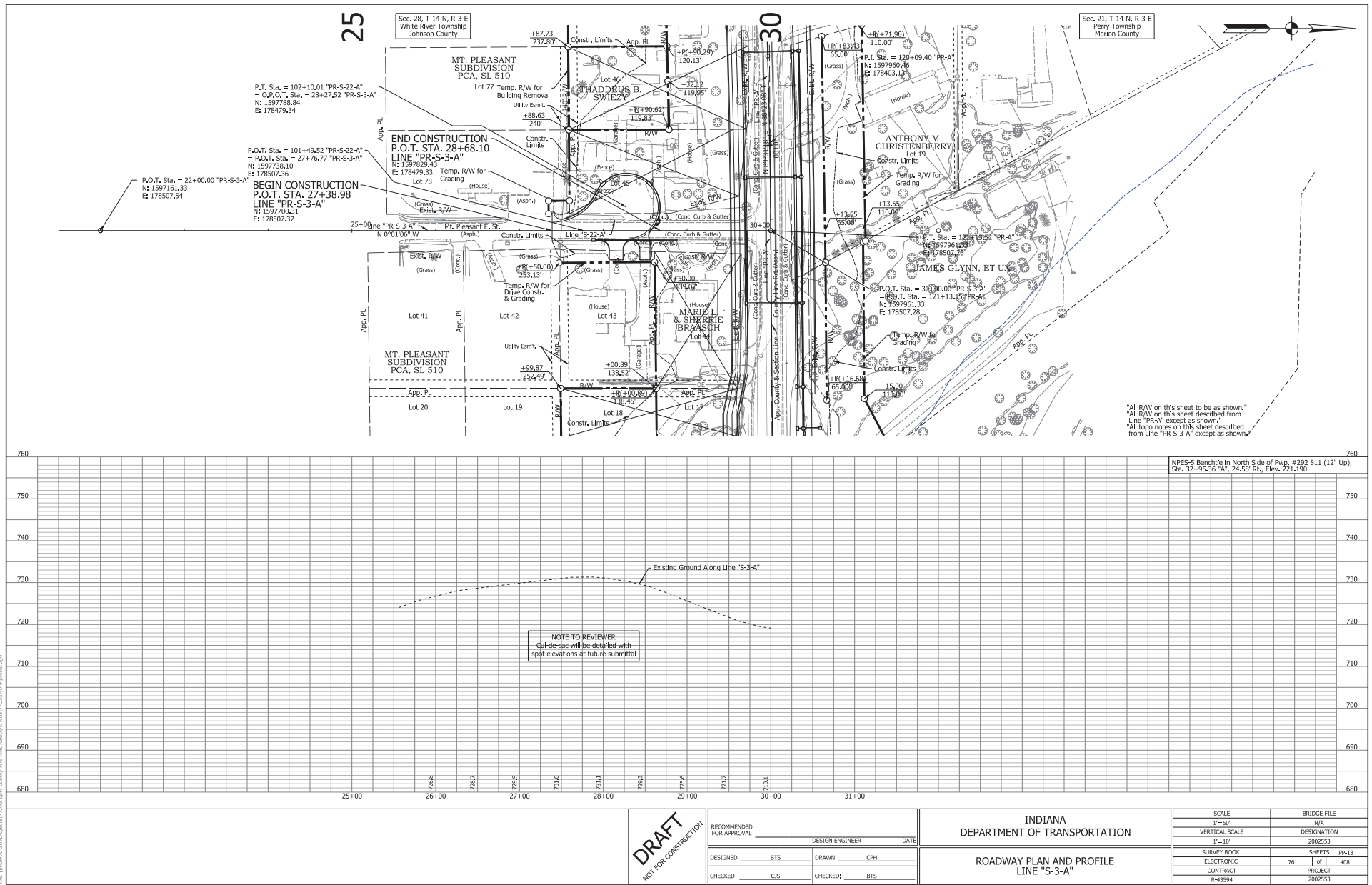
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CHECKED: <u>CJS</u>	DESIGN ENGINEER: <u>CPH</u>
CHECKED: _____	DATE: _____

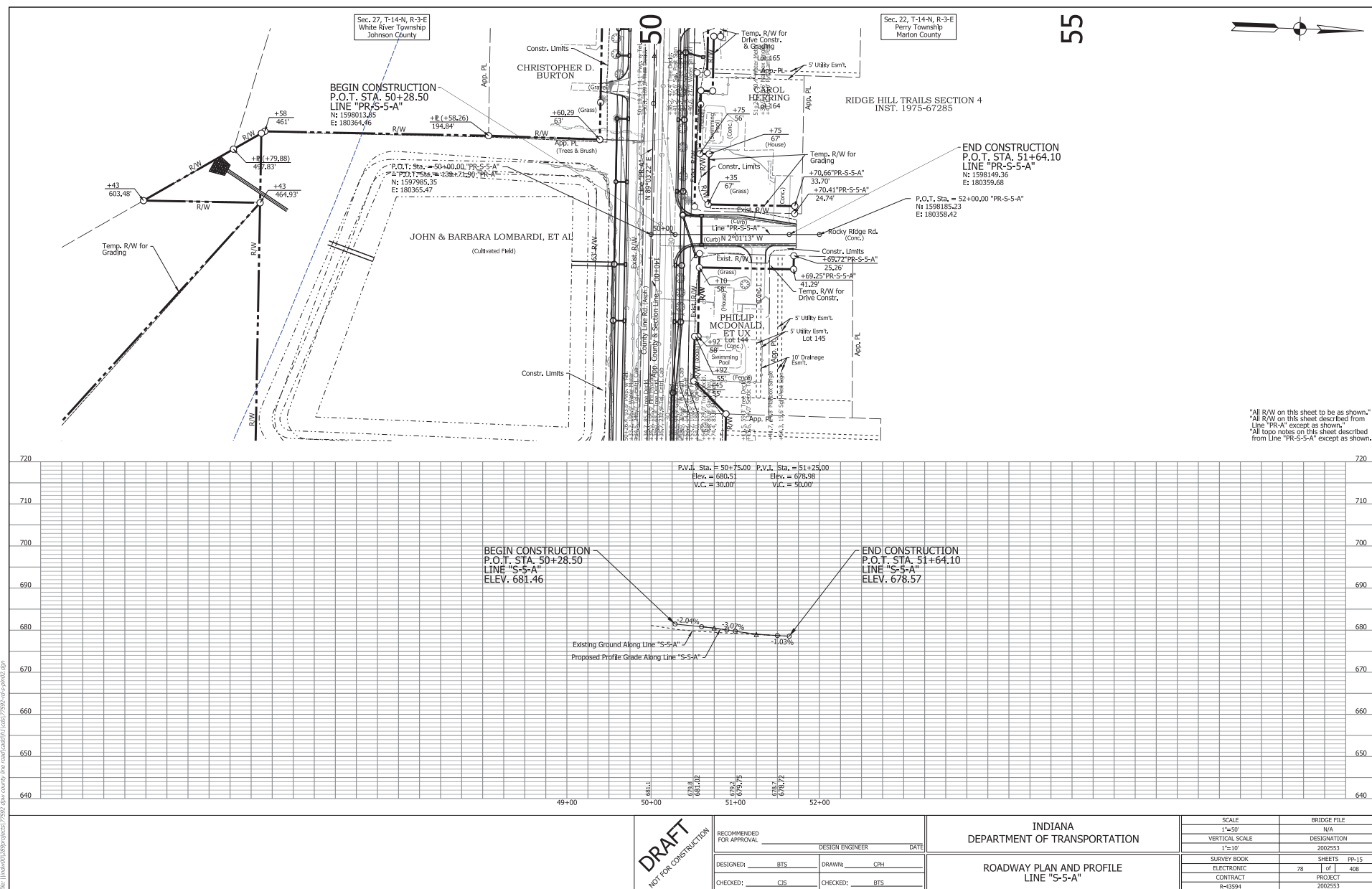
INDIANA
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN AND PROFILE
LINE "S-2-A"

SCALE	BRIDGE FILE
1"=50'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	2002553
SURVEY BOOK	SHEETS
ELECTRONIC	75
CONTRACT	PR-12
R-43994	408
	PROJECT
	2002553

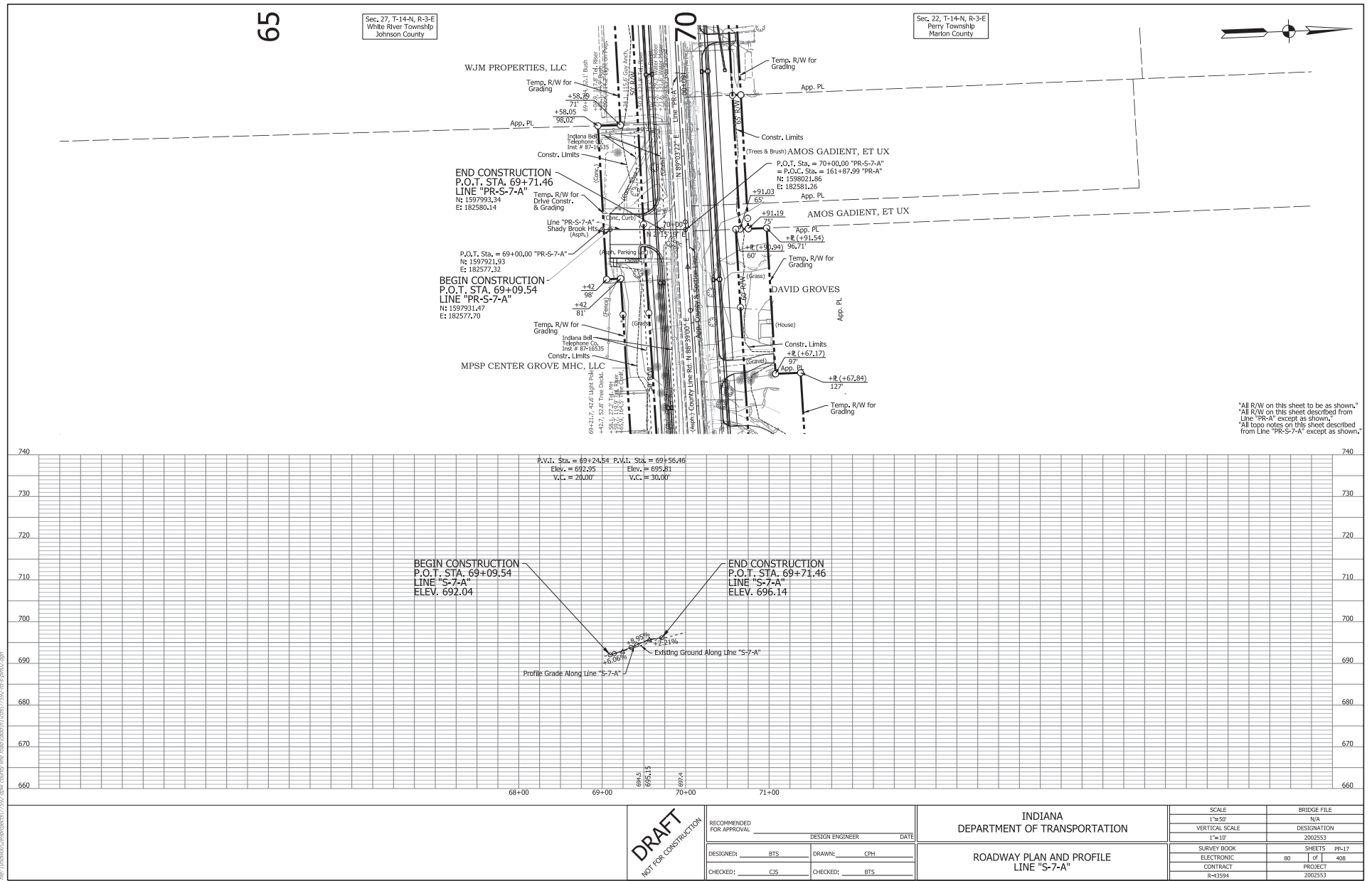
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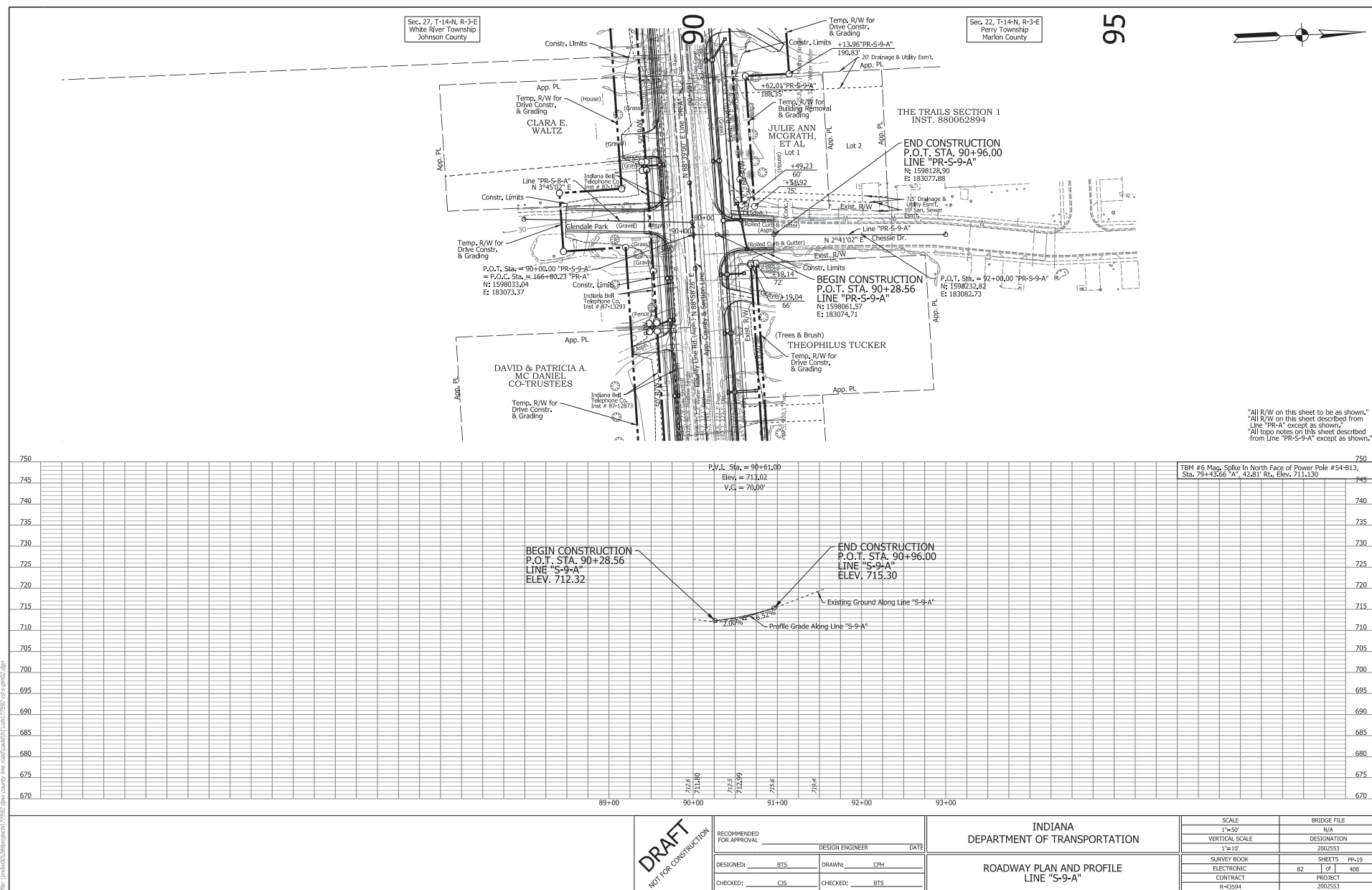




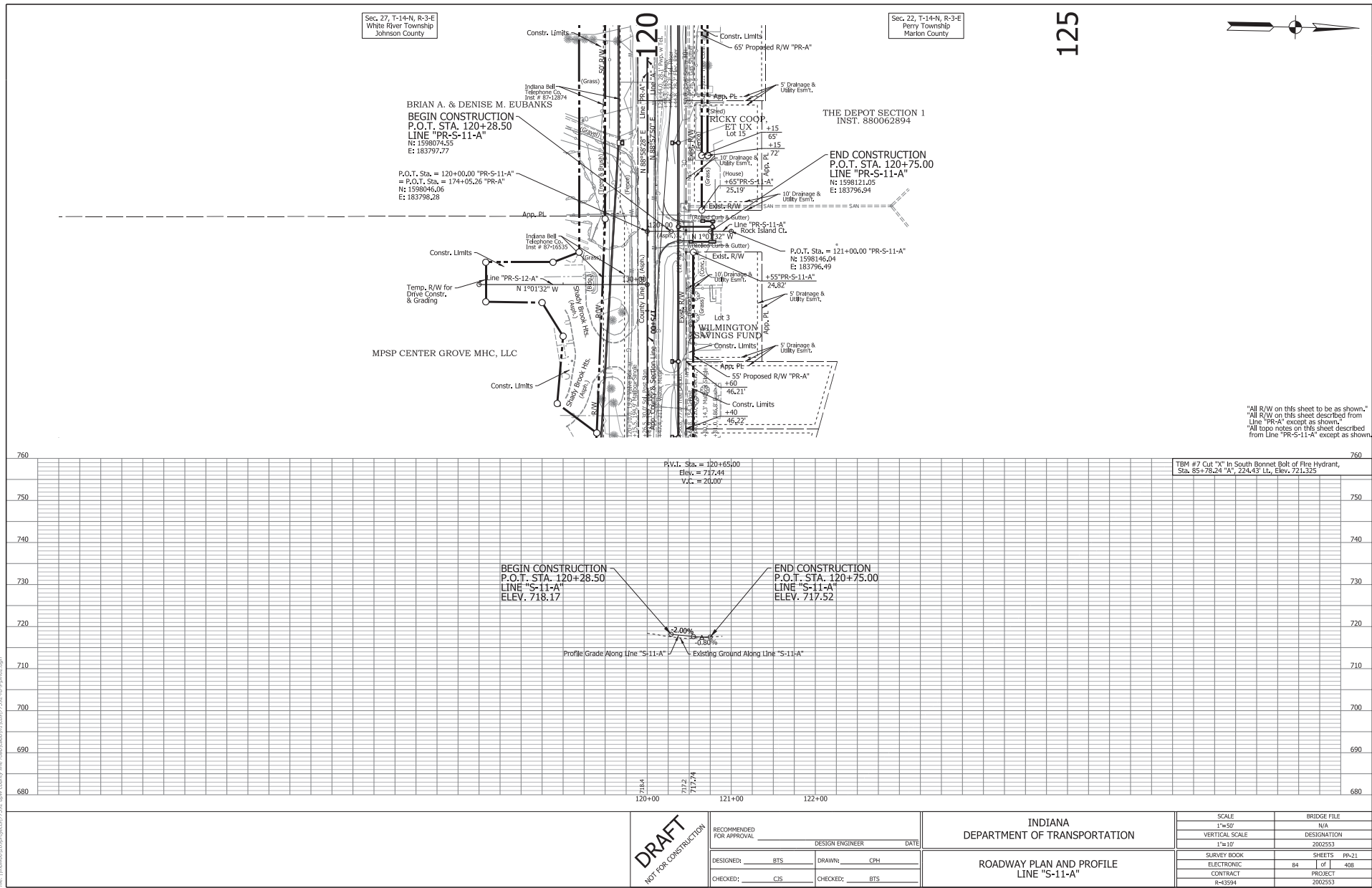
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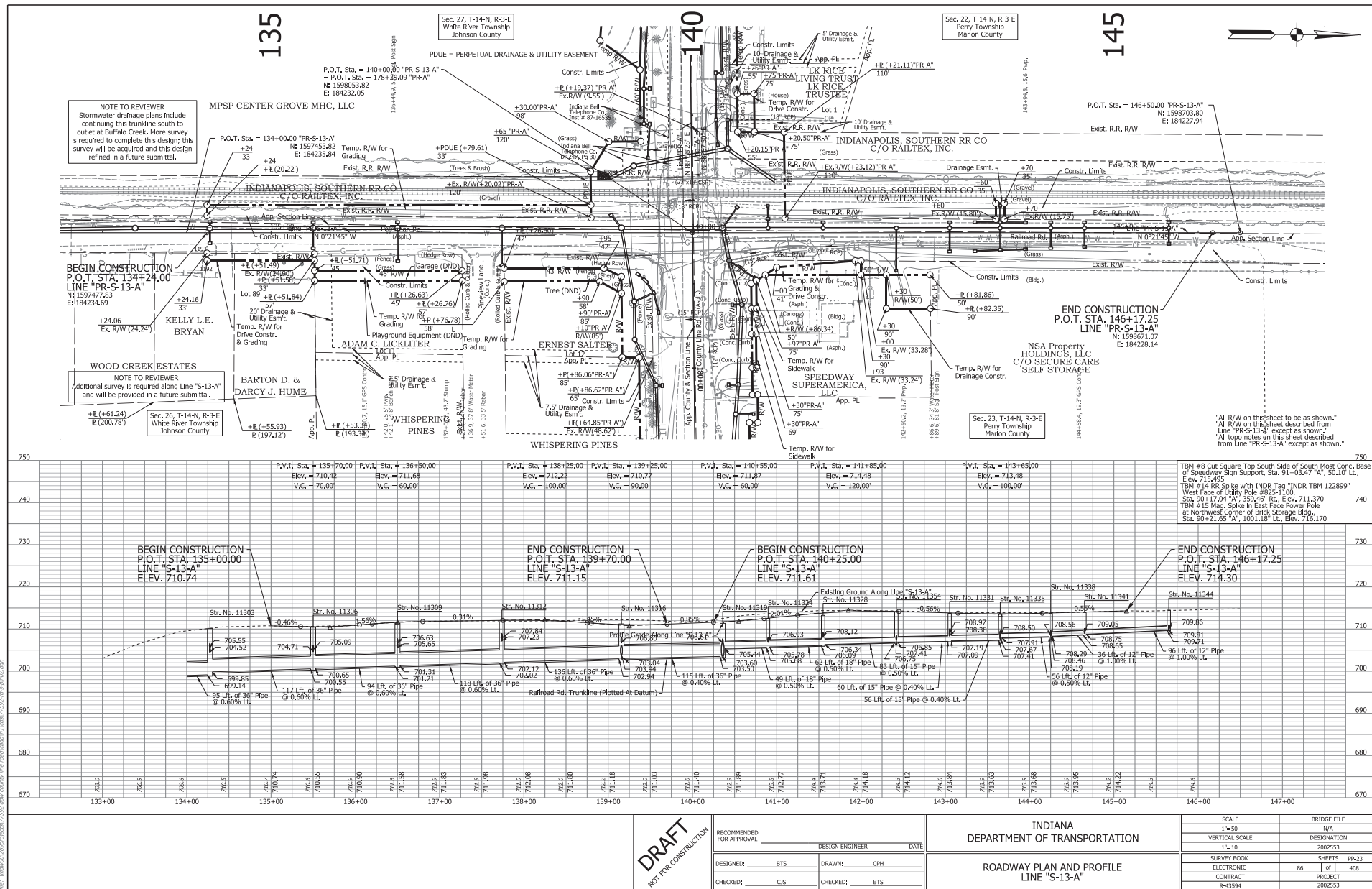




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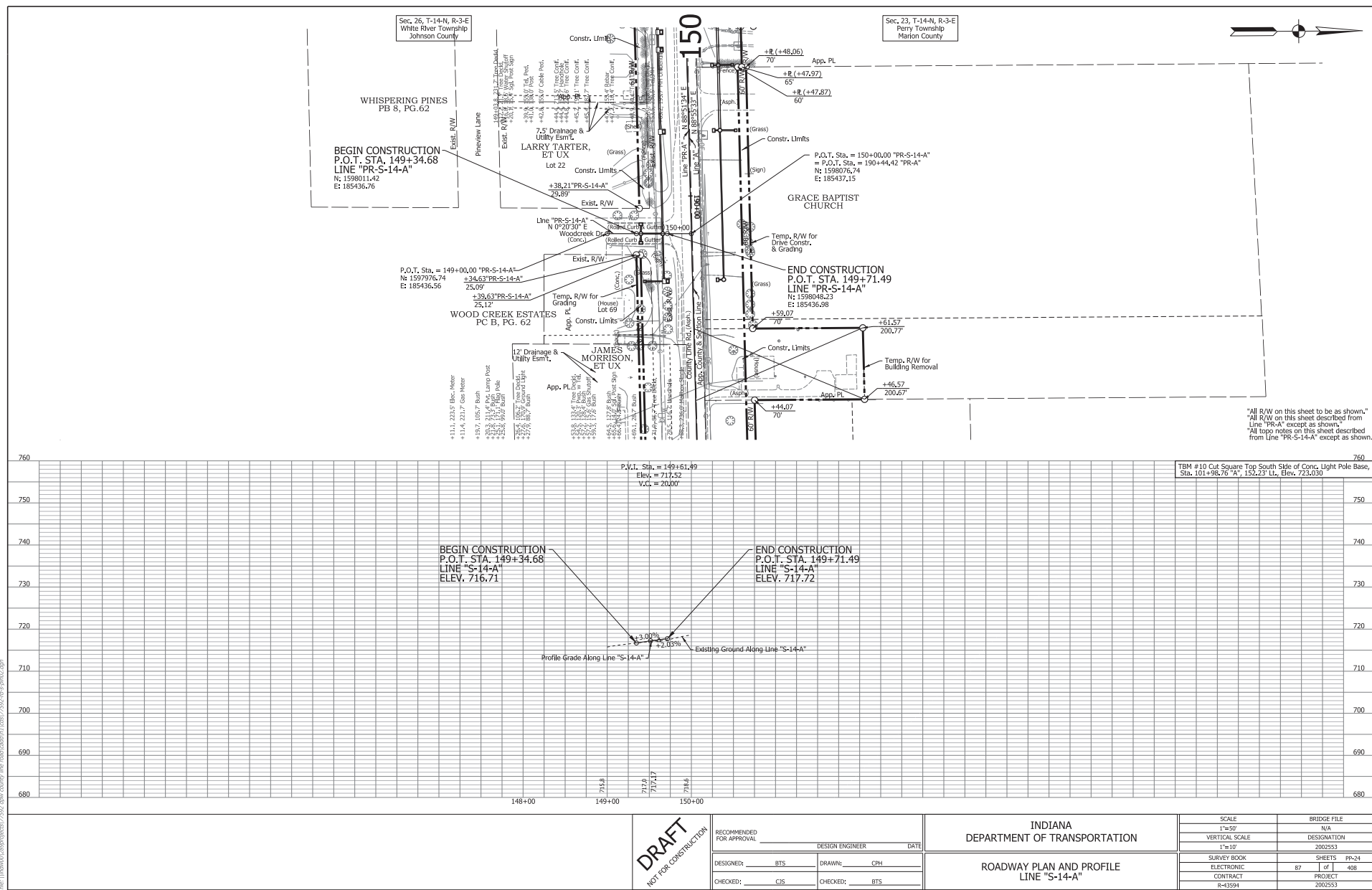
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 NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNER: BTS	DRAWING: CPH				
CHECKED: CIS	CHECKED: BTS				

INDIANA DEPARTMENT OF TRANSPORTATION	
ROADWAY PLAN AND PROFILE LINE "S-13-A"	

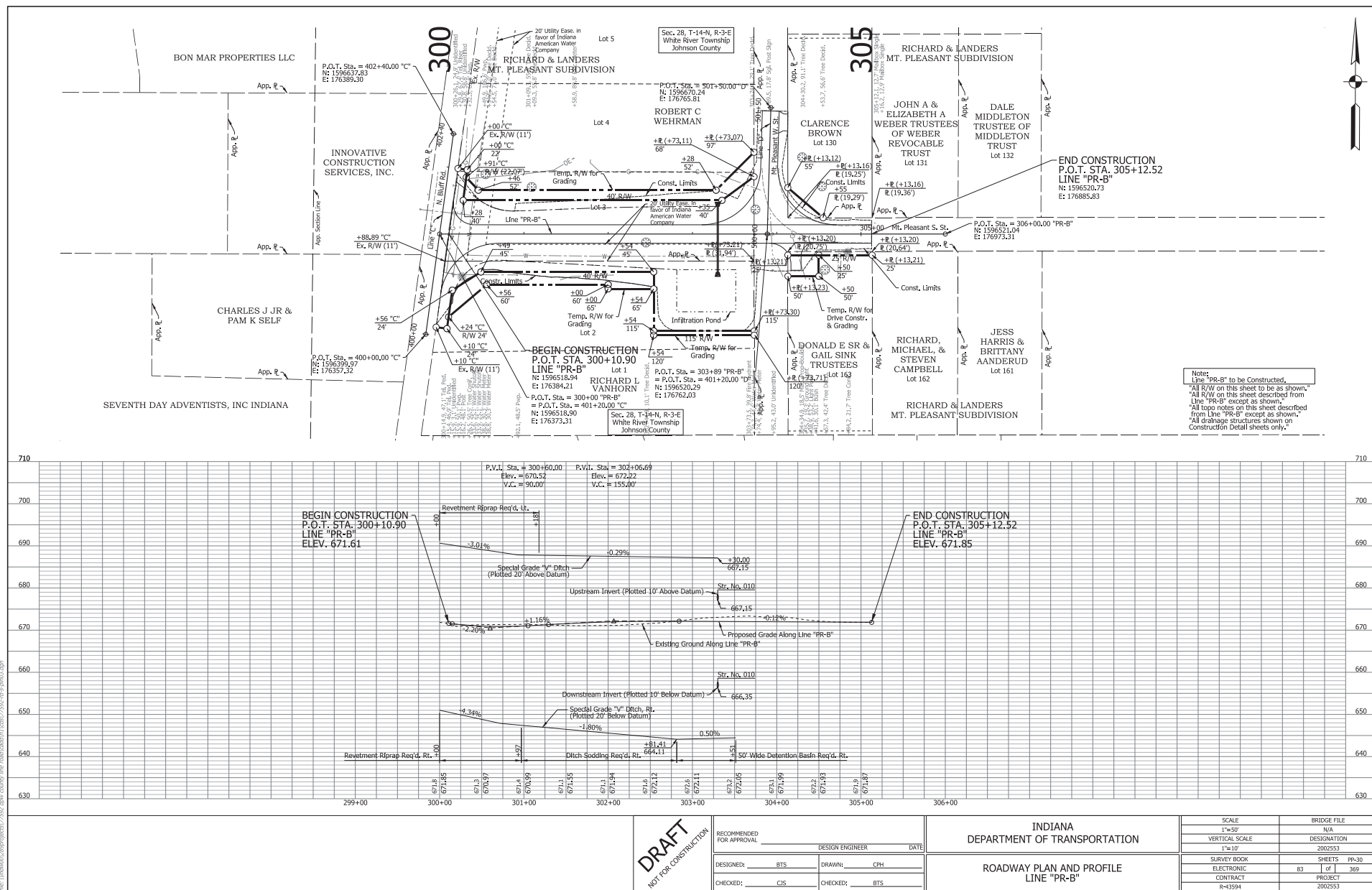
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1"=50'	N/A
VERTICAL SCALE	DESIGNATION
1"=10'	2002553
SURVEY BOOK	SHEETS
ELECTRONIC	86
CONTRACT	PROJECT
R-43994	2002553

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INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

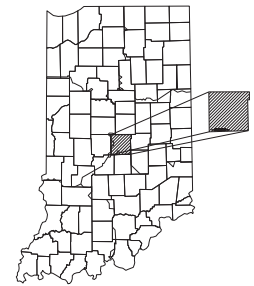
FOR SPANS OVER 20 FEET
ROUTE: COUNTY LINE ROAD AT: RP 144 TO 145
DPW PROJECT NO. ST-45-067
PROJECT NO. 2002553 (R/W)
2100121 (P.E., CONST.)

BRIDGE REPLACEMENT ON COUNTY LINE ROAD OVER PLEASANT RUN CREEK, LOCATED 0.10 MILES EAST OF MORGANTOWN ROAD, IN SECTION 22, T-14-N, R-3-E, PERRY TOWNSHIP, MARION COUNTY & SECTION 27, T-14-N, R-3-E, WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA.

STAGE 2 PLANS
NOVEMBER 5, 2021



SCALE: 1" = 1500'



PROJECT LOCATION SHOWN BY —
MARION COUNTY & JOHNSON COUNTY

LATITUDE: 39° 38' 04" N LONGITUDE: 86° 11' 39" W

BRIDGE LENGTH:	0.027 MI.
ROADWAY LENGTH:	2.173 MI.
TOTAL LENGTH:	2.200 MI.
MAX. GRADE:	4.10 %

12 - DIGIT HYDROLOGIC UNIT CODE: 051202011206

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022
TO BE USED WITH THESE PLANS.

	BRIDGE FILE		
	49-4503 B		
	DESIGNATION		
	2100121		
SURVEY BOOK	SHEETS		
ELECTRONIC	1	of	9
CONTRACT	PROJECT		
B-43694	2100121		

LOCATION MAP
(MARION COUNTY & JOHNSON COUNTY)

DRAFT
NOT FOR CONSTRUCTION

PLANS PREPARED BY: HNTB Indiana, Inc. (317) 636-4682
PHONE NUMBER

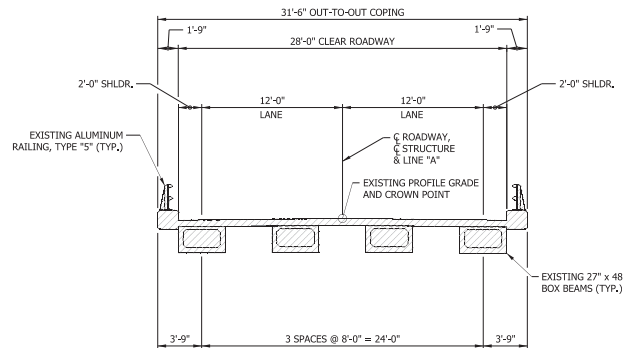
CERTIFIED BY: _____ DATE _____

APPROVED FOR LETTING: _____ DATE _____
INDIANA DEPARTMENT OF TRANSPORTATION

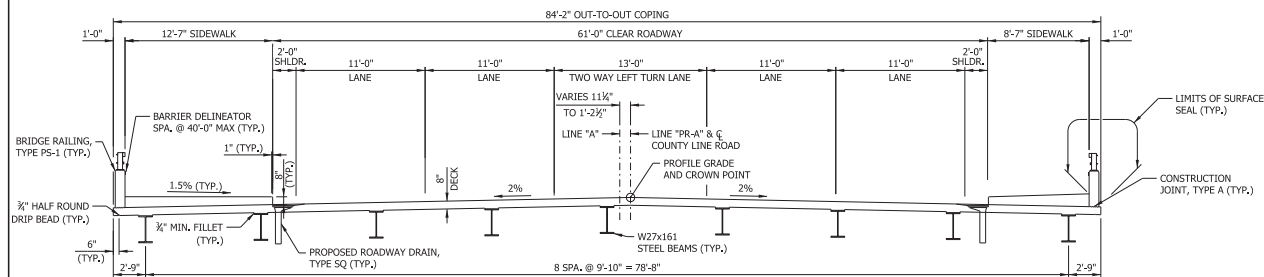
HNTB
HNTB Indiana, Inc.
The HNTB Companies
Infrastructure Solutions
111 Monument Circle
Suite 1200
Indianapolis, IN 46204



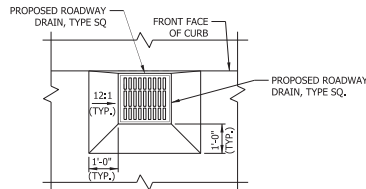
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EXISTING SECTION
SCALE: 1" = 5'-0"
(LOOKING AHEAD STATION)



PROPOSED TYPICAL SECTION
SCALE: 1" = 5'-0"
(LOOKING AHEAD STATION)



TYP. DECK TAPER AT ROADWAY DRAIN
SCALE: 1/2" = 1'-0"

GENERAL NOTES

REINFORCING BAR COVER SHALL BE 2 1/2" MIN. IN TOP, 1" MIN. IN BOTTOM OF FLOOR SLABS, AND 2" MIN. IN ALL OTHER PARTS, UNLESS NOTED OTHERWISE.

ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (FT), UNLESS NOTED OTHERWISE.

CONCRETE IN FLOOR SLAB AND DIAPHRAGMS SHALL BE CONCRETE, C, SUPERSTRUCTURE AND CONCRETE IN BARRIER AND END BENTS SHALL BE CLASS "C".

REINFORCING BARS IN DECK, BARRIER, BARRIER TRANSITIONS, AND END BENT DIAPHRAGMS SHALL BE EPOXY COATED.

ALL EXPOSED FACES OF THE END BENTS, PIERS, BARRIERS, AND BARRIER TRANSITIONS SHALL RECEIVE SURFACE SEAL. ALL SURFACE SEAL WILL BE PAID FOR AS LUMP SUM.

DESIGN DATA

LIVE LOAD
SUPERSTRUCTURE AND SUBSTRUCTURE DESIGNED FOR HL-93 LOADING, IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017.

DEAD LOAD
DESIGNED FOR ACTUAL DEAD LOAD PLUS 35 PSF FOR FUTURE WEARING SURFACE AND 15 PSF FOR SIP METAL DECK FORMS.

DECK SLAB
SLAB DESIGNED WITH A 7 1/2" STRUCTURAL DEPTH AND A 1/2" INTEGRAL WEARING SURFACE.

SEISMIC DESIGN DATA

SEISMIC PERFORMANCE ZONE = 1
ACCELERATION COEFFICIENT = 0.142
SEISMIC SOIL PROFILE TYPE = CLASS D

DESIGN STRENGTHS

CLASS "A" CONCRETE $f'_c = 3,500$ PSI
CLASS "B" CONCRETE $f'_c = 3,000$ PSI
CLASS "C" CONCRETE $f'_c = 4,000$ PSI
REINFORCING BARS $f_y = 60,000$ PSI

CONSTRUCTION LOADING

THE EXTERIOR BEAM HAS BEEN CHECKED FOR STRENGTH, DEFLECTION, AND OVERTURNING USING THE CONSTRUCTION LOADS SHOWN BELOW.

CANTILEVER OVERHANG BRACKETS WERE ASSUMED FOR SUPPORT OF THE DECK OVERHANG PAST THE EDGE OF THE EXTERIOR BEAM, THE FINISHING MACHINE WAS ASSUMED TO BE SUPPORTED 6 IN. PAST THE EDGE OF THE VERTICAL COPING FORM, THE TOP OVERHANG BRACKETS WERE ASSUMED TO BE LOCATED 6 INCHES PAST THE EDGE OF THE VERTICAL COPING FORM, THE BOTTOM OVERHANG BRACKETS WERE ASSUMED TO BE BRACED AGAINST THE INTERSECTION OF THE BEAM BOTTOM FLANGE AND WEB.

DECK FALSEWORK LOADS:
DESIGNED FOR 15 PSF FOR PERMANENT, STAY-IN-PLACE METAL DECK FORMS, REMOVABLE DECK FORMS, AND 2 FT EXTERIOR WALKWAY.

CONSTRUCTION LIVE LOAD:
DESIGNED FOR 20 PSF EXTENDING 2 FT PAST THE EDGE OF COPING AND 75 LB/FT VERTICAL FORCE APPLIED AT A DISTANCE OF 6 IN. OUTSIDE THE FACE OF COPING OVER A 30 FT LENGTH OF THE DECK CENTERED WITH THE FINISHING MACHINE.

FINISHING-MACHINE LOAD:
4500 LB DISTRIBUTED OVER 10 FT ALONG THE COPING.

WIND LOAD:
STRUCTURE DESIGNED FOR 70 MPH HORIZONTAL WIND LOADING IN ACCORDANCE WITH AASHTO LRFD 3.8.1.

LEGEND

LIMITS OF REMOVAL

CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
3 SPANS: 40'-0", 60'-0", 40'-0"
SKEW: 20°00'00" LT.
61'-0" CLEAR ROADWAY
COUNTY LINE ROAD OVER PLEASANT RUN CREEK
JOHNSON AND MARION COUNTY

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED BY: EDK	DRAWING: EDK	
CHECKED: TMB	CHECKED: TMB	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	99-4503 B
VERTICAL SCALE	DESIGNATION
AS NOTED	2100122
SURVEY BOOK	SHEETS
ELECTRONIC	8 of 9
CONTRACT	PROJECT
R-43994	2100122

PROJECT	DESIGNATION
2100122	2100122
CONTRACT	BRIDGE FILE
R-43994	49-4510 B

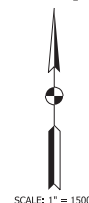
STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
49-4510 B	CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE	3 SPANS: 34'-0", 41'-0", 34'-0" SKEW: 35°00'00" RT.	BUFFALO CREEK	202+31.00 "LINE PR-A"

INDIANA DEPARTMENT OF TRANSPORTATION

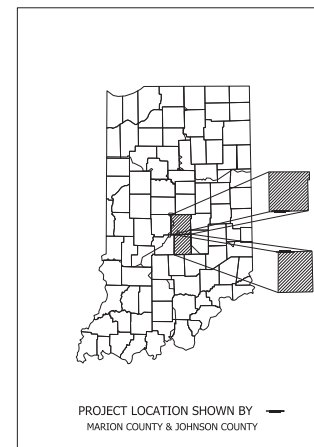


BRIDGE PLANS FOR SPANS OVER 20 FEET ROUTE: COUNTY LINE ROAD AT: RP 140 TO 141 DPW PROJECT NO. ST-45-067 PROJECT NO. 2002553 (R/W) 2100122 (P.E., CONST.)

BRIDGE REPLACEMENT ON COUNTY LINE ROAD OVER BUFFALO CREEK, LOCATED 0.55 MILES WEST OF MERIDIAN STREET, IN SECTION 23, T-14-N, R-3-E, PERRY TOWNSHIP, MARION COUNTY & SECTION 26, T-14-N, R-3-E, WHITE RIVER TOWNSHIP, JOHNSON COUNTY, INDIANA.



TRAFFIC DATA		COUNTY LINE ROAD
A.A.D.T.	(2023)	13,500
A.A.D.T.	(2043)	32,200
D.H.V.	(2043)	2,560
DIRECTIONAL DISTRIBUTION		54.00%
TRUCKS		2.30%
		1.60% DRV
DESIGN DATA		
DESIGN SPEED		40 M.P.H.
PROJECT DESIGN CRITERIA		4R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION		PRINCIPAL ARTERIAL
RURAL/URBAN		URBAN
TERRAIN		LEVEL
ACCESS CONTROL		NONE



LATITUDE: 39° 38' 06" N LONGITUDE: 86° 10' 08" W

BRIDGE LENGTH: 0.021 MI.
ROADWAY LENGTH: 2.129 MI.
TOTAL LENGTH: 2.200 MI.
MAX. GRADE: 4.10 %

12-DIGIT HYDROLOGIC UNIT CODE: 051202011206

NOTE TO REVIEWER

PLEASE SEE CORRESPONDENCE
FILE FOR DOCUMENTATION
OF DESIGN DECISIONS

STAGE 2 PLANS
NOVEMBER 5, 2021

INDIANAPOLIS DEPARTMENT OF PUBLIC WORKS
DPW PROJECT NUMBER ST-45-067
INDOT DES. NO. 2100122
SUBMITTED FOR PUBLIC BIDDING

BY: _____

ERICKA MILLER, PE, PTOE, PMP
CHIEF ENGINEER, ERC

BY: _____

DAVID BORDEN, DEPUTY DIRECTOR



HNTB Indiana, Inc.
The HNTB Companies
Infrastructure Solutions
111 Monument Circle
Suite 1200
Indianapolis, IN 46204

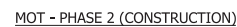
LOCATION MAP
(MARION COUNTY & JOHNSON COUNTY)

DRAFT
NOT FOR CONSTRUCTION

PLANS PREPARED BY: HNTB Indiana, Inc. PHONE NUMBER _____
CERTIFIED BY: _____ DATE _____
APPROVED FOR LETTING: _____ DATE _____
INDIANA DEPARTMENT OF TRANSPORTATION

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022
TO BE USED WITH THESE PLANS.

BRIDGE FILE	
49-4510 B	
DESIGNATION	
2100122	
SHEETS	
SURVEY BOOK	1 of 11
ELECTRONIC	1 of 11
CONTRACT	PROJECT
R-43994	2100122



FOR MAINTENANCE OF TRAFFICE DETAILS, SEE LEAD DES 2002553.

 EXISTING STRUCTURE
 PROPOSED CONSTRUCTION
 LIMITS OF REMOVAL

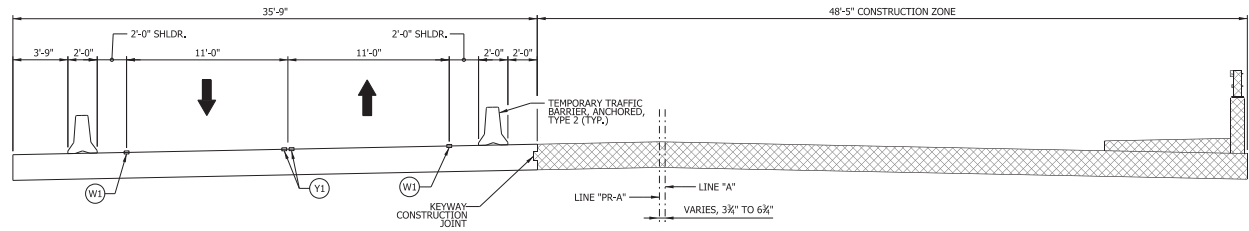
(Y1) T.P.M., REMOVABLE, SOLID, YELLOW 4'

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	DESIGNED: _____ EDK	DRAWN: _____ PTT	
	CHECKED: _____ TMB	CHECKED: _____ TMB	

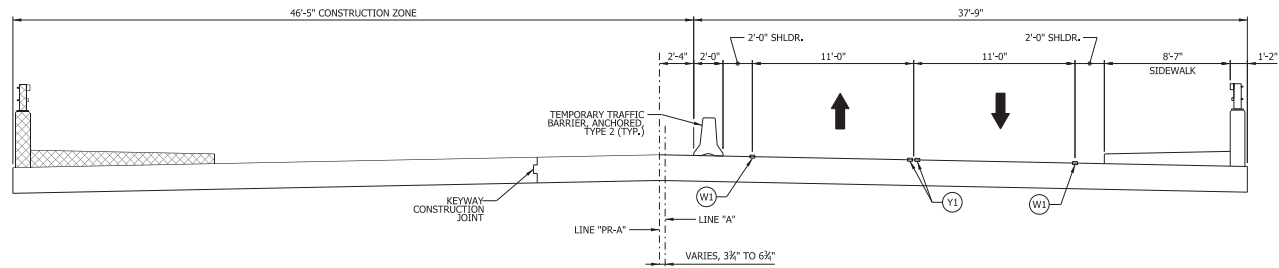
MAINTENANCE OF TRAFFIC TYPICAL SECTIONS

	HORIZONTAL SCALE	BRIDGE FILE		
	1" = 1'-0"	49-4510 B		
	VERTICAL SCALE	DESIGNATION		
	1" = 1'-0"	2100122		
	SURVEY BOOK	SHEETS MOT-29		
	ELECTRONIC	3	of	12
	CONTRACT	PROJECT		
	D-42504	2100122		

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MOT - PHASE 3 (CONSTRUCTION)



MOT - PHASE 4 (CONSTRUCTION)

NOTES:

FOR MAINTENANCE OF TRAFFIC DETAILS, SEE LEAD DES 2002553.

LEGEND

- PROPOSED CONSTRUCTION
- LIMITS OF REMOVAL
- TRAFFIC FLOW
- T.P.M. TEMPORARY PAVEMENT MARKING
- (W1) T.P.M., REMOVABLE, SOLID, WHITE 4"
- (Y1) T.P.M., REMOVABLE, SOLID, YELLOW 4"

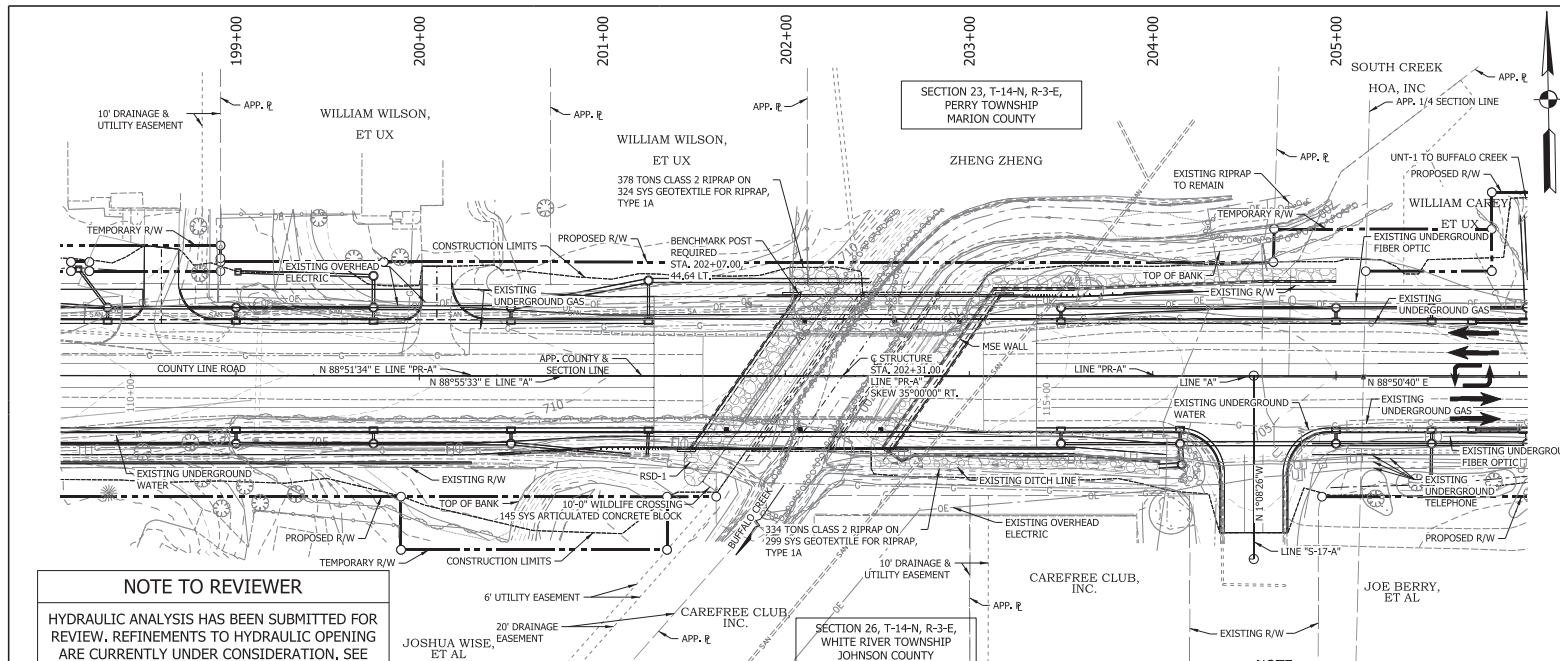
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NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED BY	EDK	DRAWN BY	PTT
CHECKED BY	TMB	CHECKED BY	TMB

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1" = 40'	99-4510 B
VERTICAL SCALE	DESIGNATION
1" = 1'-0"	2100122
SURVEY BOOK	SHEETS MOT-30
ELECTRONIC	4 of 12
CONTRACT	PROJECT
R-43994	2100122



NOTE TO REVIEWER

HYDRAULIC ANALYSIS HAS BEEN SUBMITTED FOR REVIEW. REFINEMENTS TO HYDRAULIC OPENING ARE CURRENTLY UNDER CONSIDERATION. SEE CORRESPONDENCE FILE FOR ADDITIONAL INFORMATION.

EXISTING STRUCTURE TO BE REMOVED

EXISTING STRUCTURE

THE EXISTING STRUCTURE IS A THREE SPAN CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE BUILT IN 1987 WITH AN OUT-TO-OUT BRIDGE FLOOR OF 81'-4" AND A CLEAR ROADWAY WIDTH OF 41'-0". EXISTING SPAN LENGTHS ARE 24'-10", 29'-10", AND 24'-10".

EXISTING PLANS ARE ON FILE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION AND CITY OF INDIANAPOLIS DPW AS BRIDGE FILE 49-4510F. EXISTING STRUCTURE IS TO BE REMOVED.

HYDRAULIC DATA

WATERWAY OPENING REQUIRED	188.15	SFT
WATERWAY OPENING PROVIDED	221.82	SFT
DRAINAGE AREA	3.45	SQ MI
DESIGN DISCHARGE, Q100	2300	CFS
VELOCITY	10.28	FT/S
Q100 ELEV.	702.09	FT
BACKWATER AT Q100	2.35	FT
EXISTING WATERWAY OPENING	188.35	SFT
EXISTING BACKWATER	2.89	FT
MIN. LOW STRUCTURE ELEV. REQ.	706.36	FT
EXISTING LOW STRUCTURE ELEV.	706.52	FT

HYDRAULIC SCOUR DATA

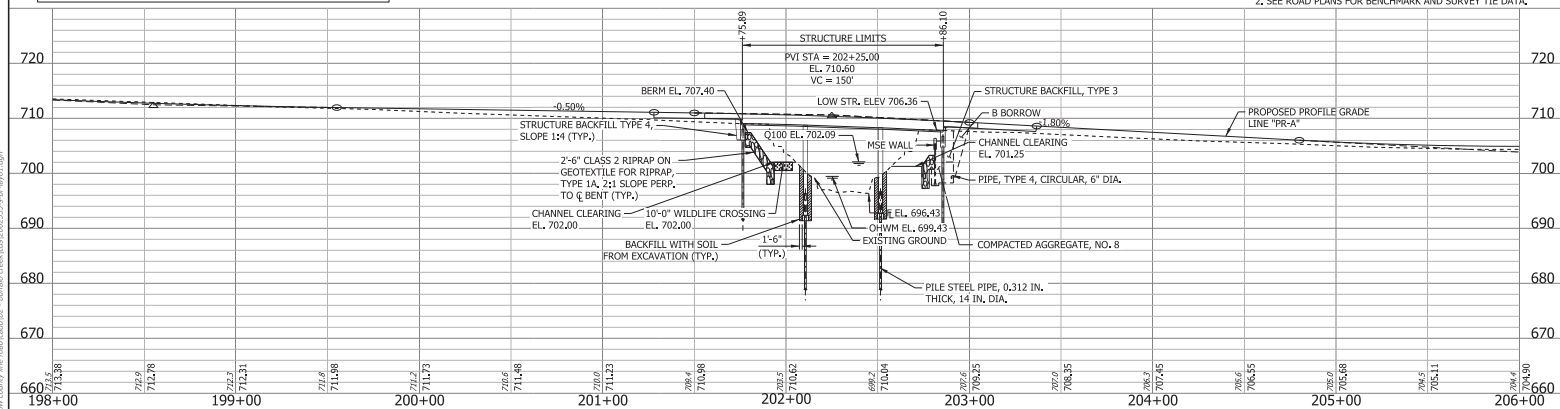
Q100 DISCHARGE	2300.00	CFS
Q100 ELEV.	702.09	FT
VELOCITY AT Q100 (MAX.)	12.98	FT/S
SCOUR DEPTH (CONTRACTION)	7.34	FT
SCOUR DEPTH (TOTAL)	12.05	FT
LOW SCOUR ELEV.	694.38	FT
Q500 DISCHARGE	3100.00	CFS
Q500 ELEV.	702.60	FT
VELOCITY AT Q500 (MAX.)	14.30	FT/S
SCOUR DEPTH (CONTRACTION)	8.64	FT
SCOUR DEPTH (TOTAL)	16.45	FT
LOW SCOUR ELEV.	679.98	FT

NOTE TO REVIEWER

UTILITY COORDINATION WILL BEGIN AFTER THIS SUBMISSION. UTILITIES TO REMAIN AND UTILITIES TO BE RELOCATED WILL BE UPDATED FOR FUTURE SUBMISSIONS.

NOTE TO REVIEWER

EARTHWORK TABULATION WILL BE PROVIDED IN FUTURE SUBMITTALS



NOTE:

1. ALL R/W ON THIS SHEET DESCRIBED FROM LINE "PR-A".

2. SEE ROAD PLANS FOR BENCHMARK AND SURVEY TIE DATA.

CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
3 SPANS: 34'-0", 41'-0", 34'-0"
SKEW: 35°00'00" RT.
61'-0" CLEAR ROADWAY
COUNTY LINE ROAD OVER BUFFALO CREEK
JOHNSON AND MARION COUNTY

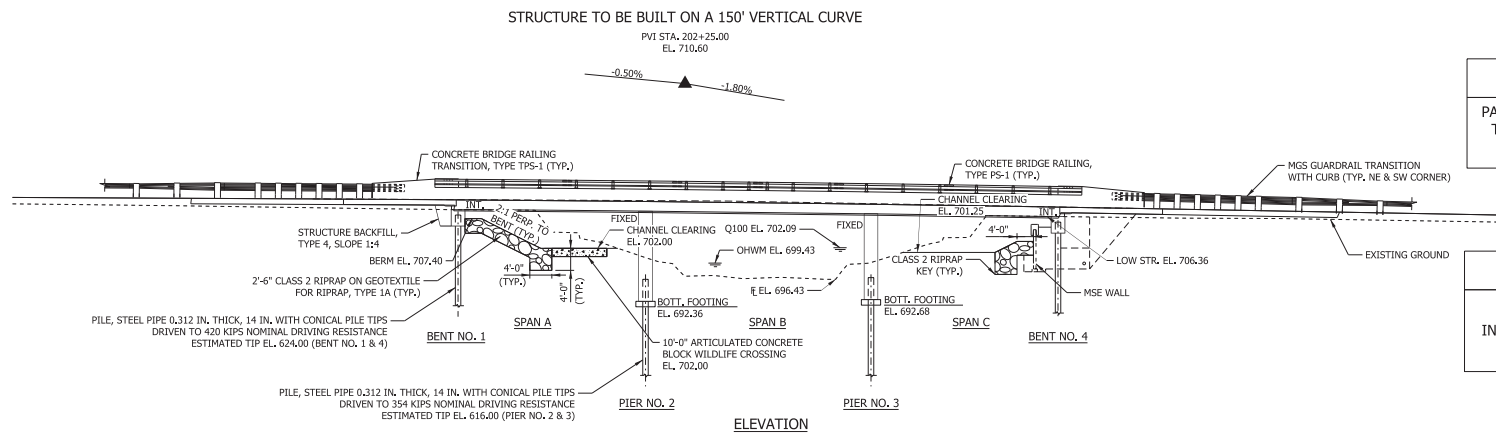
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NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED BY: PTT	DRAWN BY: PTT	
CHECKED BY: TMB	CHECKED BY: TMB	

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
SURVEY BOOK	SHEETS
ELECTRONIC	LAY-01
CONTRACT	9 of 12
R-43994	PROJECT
	2100122

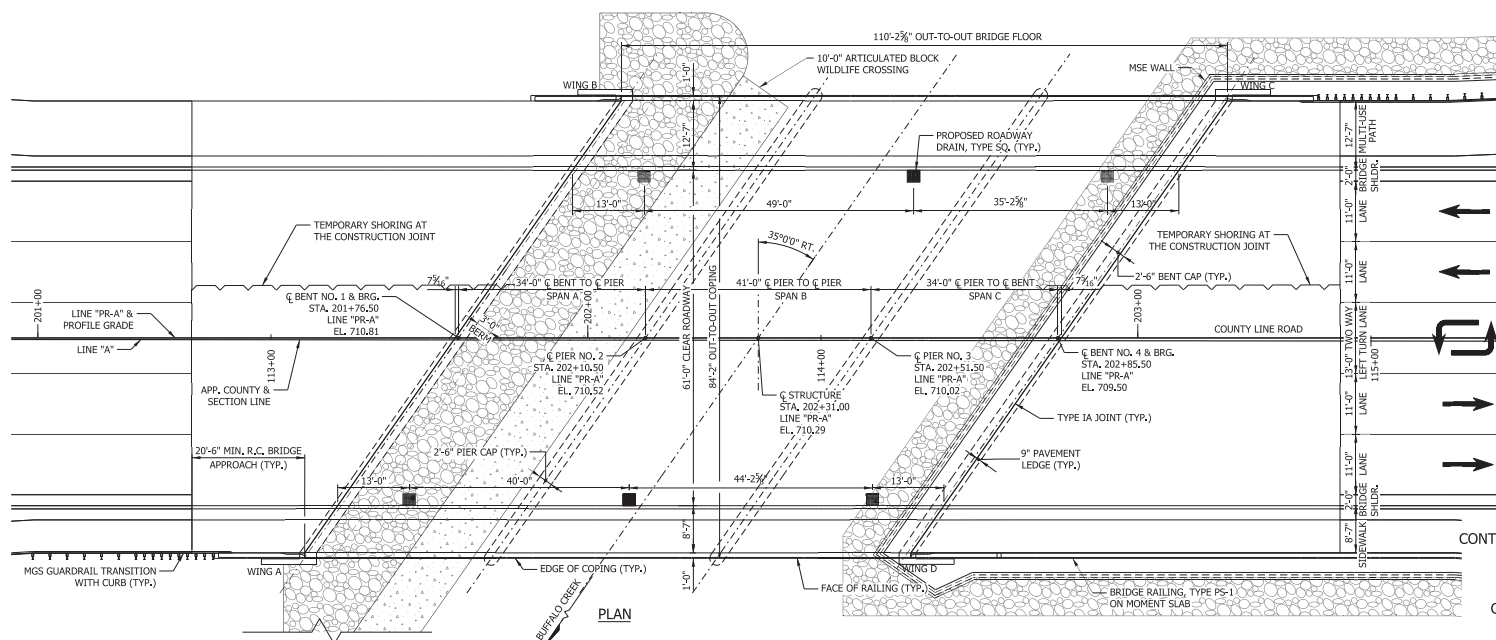


NOTE TO REVIEWER

PAVEMENT LEDGE HAS BEEN INCREASED TO 9" PER COORDINATION WITH THE INDOT STRUCTURES COMMITTEE.

NOTE TO REVIEWER

THE NEED FOR WINGWALLS IS BEING
INVESTIGATED AND WILL BE COORDINATED
WITH THE MSE WALL DESIGN



NOTE:

FOR MSE WALL DETAILS, SEE ROAD PLANS, DES 2002553.

CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
3 SPANS: 34'-0", 41'-0", 34'-0"
SKEW: 35°00'00" RT.
61'-0" CLEAR ROADWAY
COUNTY LINE ROAD OVER BUFFALO CREEK
JOHNSON AND MARION COUNTY

DRAFT
NOT FOR CONSTRUCTION

14	RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
	DESIGNED: _____ PTT		DRAWN: _____ PTT	
	CHECKED: _____ TMB		CHECKED: _____ TMB	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE	
$\frac{1}{2}'' = 1'-0''$	49-4510 B	
VERTICAL SCALE	DESIGNATION	
$\frac{1}{2}'' = 1'-0''$	2100122	
SURVEY BOOK	SHEETS PLN-01	
ELECTRONIC	10	of 12
CONTRACT	PROJECT	
R-43594	2100122	

