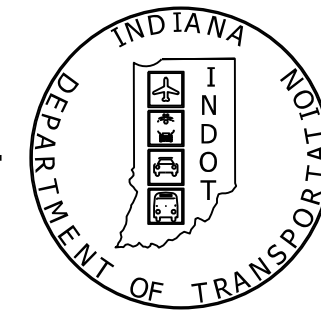


PROJECT	DESIGNATION
1593238	1593238
CONTRACT	BRIDGE FILE
B-40502	038-33-10161

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
038-33-10161	CONTINUOUS COMPOSITE STEEL BEAM BRIDGE	3 SPANS: 44'-0", 56'-6", 44'-0" SKEW: 00°00'00"	BIG BLUE RIVER	110+78.50

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: SR 38 AT: RP 92+23

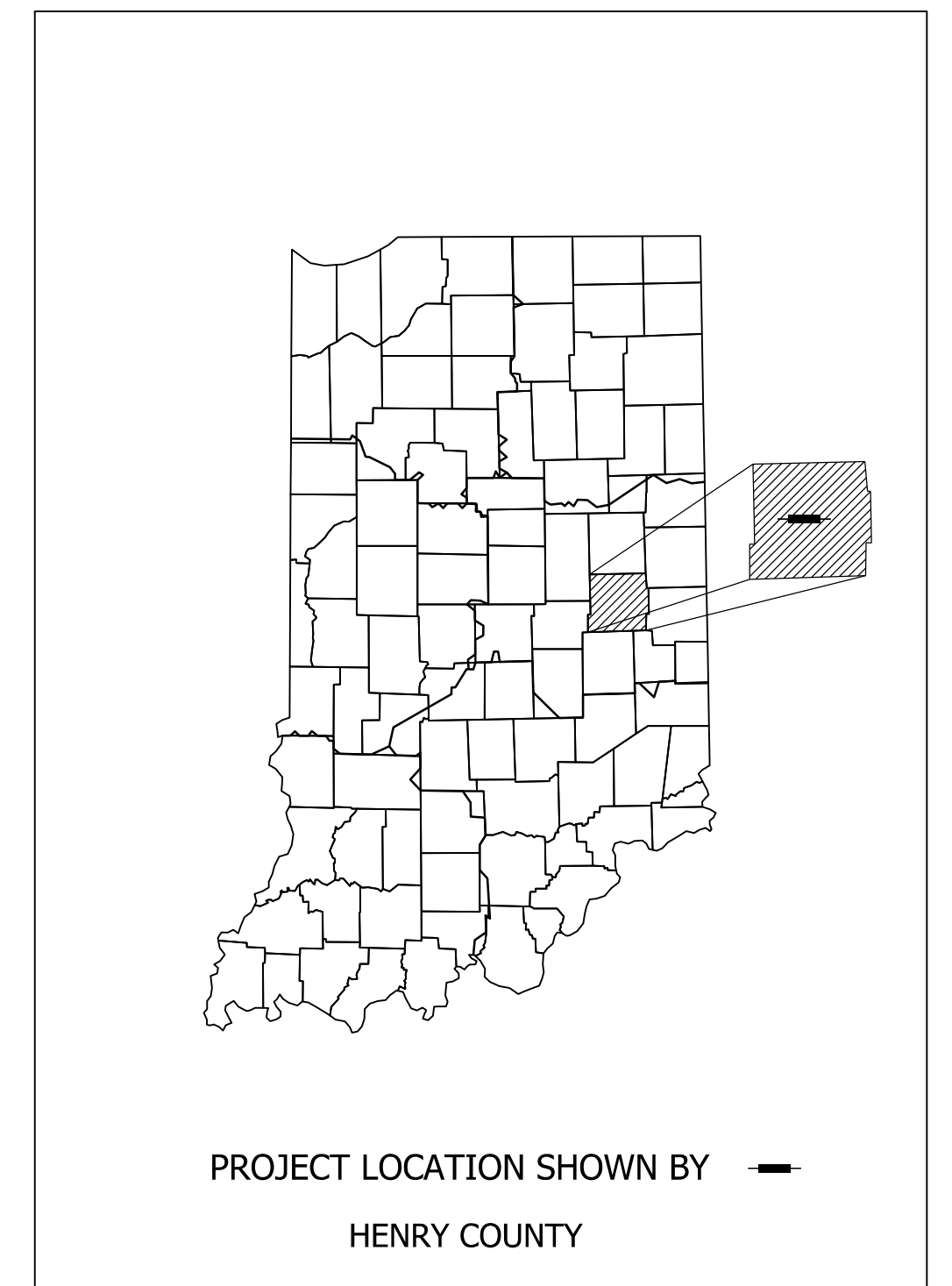
PROJECT NO. 1593238 (P.E., CONST., R/W)

BRIDGE REPLACEMENT ON SR 38 OVER BIG BLUE RIVER, LOCATED 0.16 MILES WEST OF SR 3, IN SECTIONS 9, 10, 15, & 16, T-17-N, R-10-E, HENRY TOWNSHIP, HENRY COUNTY, INDIANA

NOTE TO REVIEWER
PLEASE SEE CORRESPONDENCE FILE FOR DOCUMENTATION OF DESIGN DECISIONS

TRAFFIC DATA			
A.A.D.T. (2021)	7,887	V.P.D.	
A.A.D.T. (2041)	8,698	V.P.D.	
D.H.V (2041)	863	V.P.H.	
DIRECTIONAL DISTRIBUTION	52.01	%	
TRUCKS	3.62	% A.A.D.T.	
	3.56	% D.H.V.	

DESIGN DATA		
DESIGN SPEED	40	M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL	
RURAL/URBAN	URBAN	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	



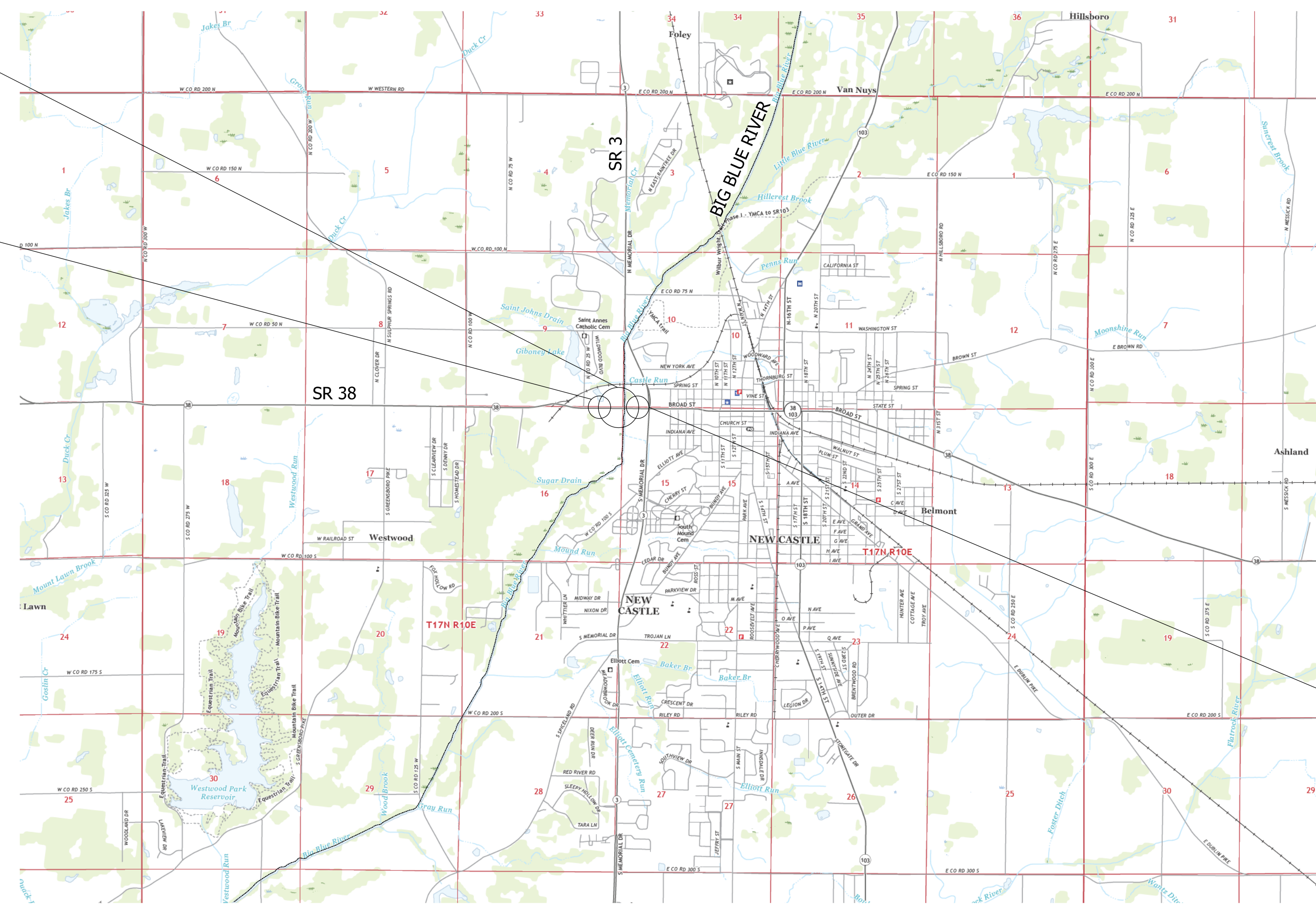
LATITUDE: 39° 55' 53" LONGITUDE: -85° 23' 04"

BRIDGE LENGTH: 0.028 MI.
ROADWAY LENGTH: 0.087 MI.
TOTAL LENGTH: 0.115 MI.
MAX. GRADE: 1.17 %

HUC: 051202040103

BRIDGE FILE NO. 038-33-10161
SR 38 OVER BIG BLUE RIVER
STA. 110+78.50

BEGIN PROJECT
STA. 108+78 LINE "A"



END PROJECT
STA. 114+33 LINE "A"

SCALE: 1" = 3000'

STAGE 1 PLANS
FEBRUARY 14, 2020

LOCATION MAP (HENRY COUNTY)

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

jmoedrick 2/12/2020 11:34:52 am model: Title sheet file: n:\12904\indot\of\on\call\070 sr 38 bridge\05\cad\cadd\12904-070-sr-br-ttl01.dgn

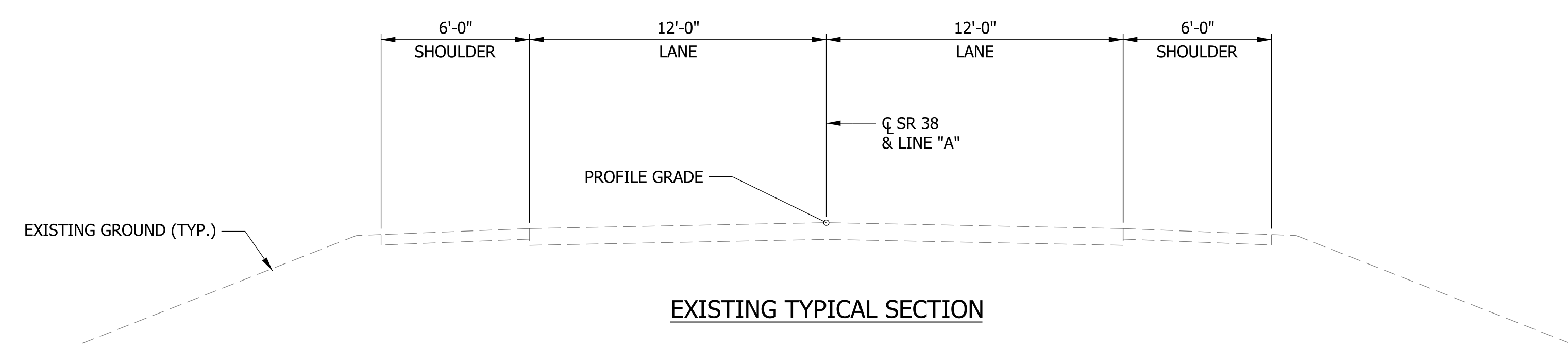


HNTB Indiana, Inc.
The HNTB Companies
Infrastructure Solutions
111 Monument Circle
Suite 1200
Indianapolis, IN 46204

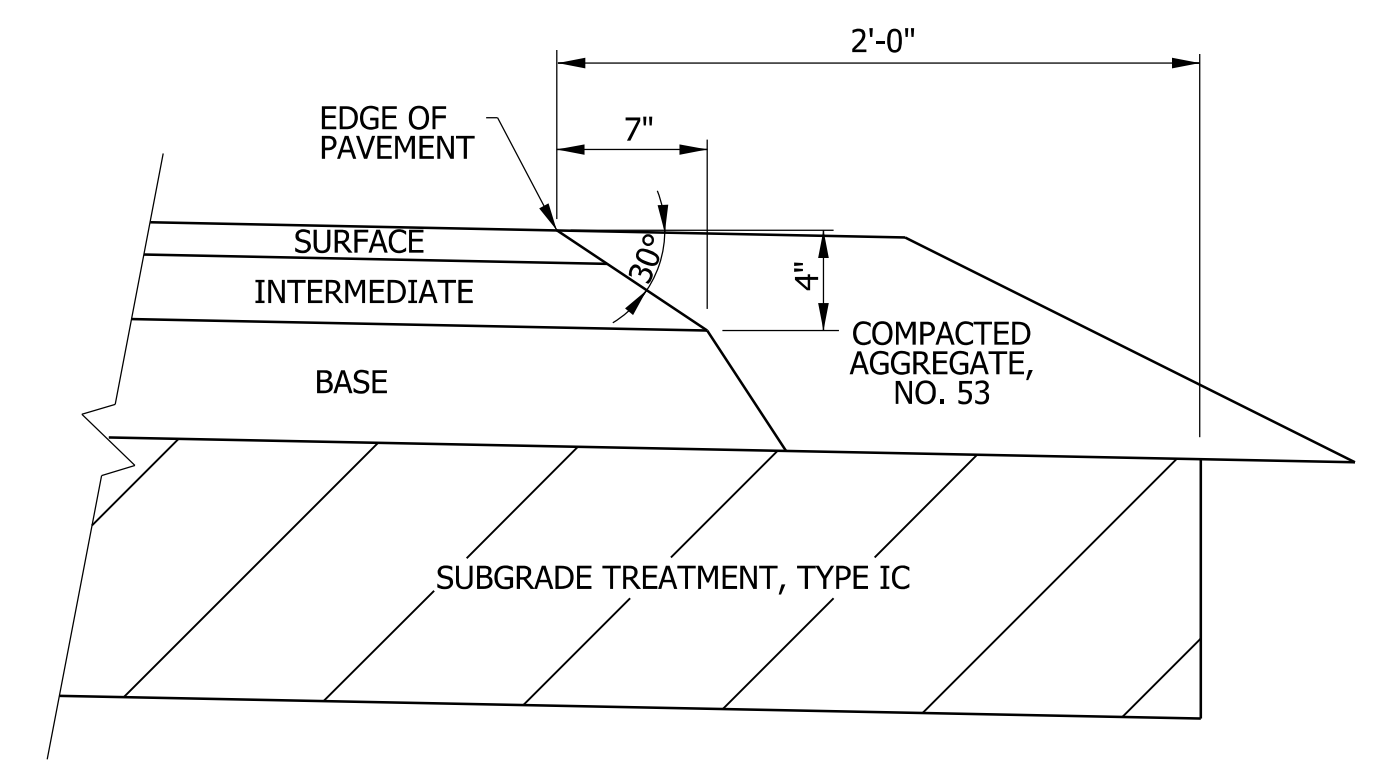
DRAFT
NOT FOR CONSTRUCTION

PLANS PREPARED BY: HNTB Indiana, Inc. (317) 636-4682 PHONE NUMBER
CERTIFIED BY: _____ DATE
APPROVED FOR LETTING: _____ DATE
INDIANA DEPARTMENT OF TRANSPORTATION

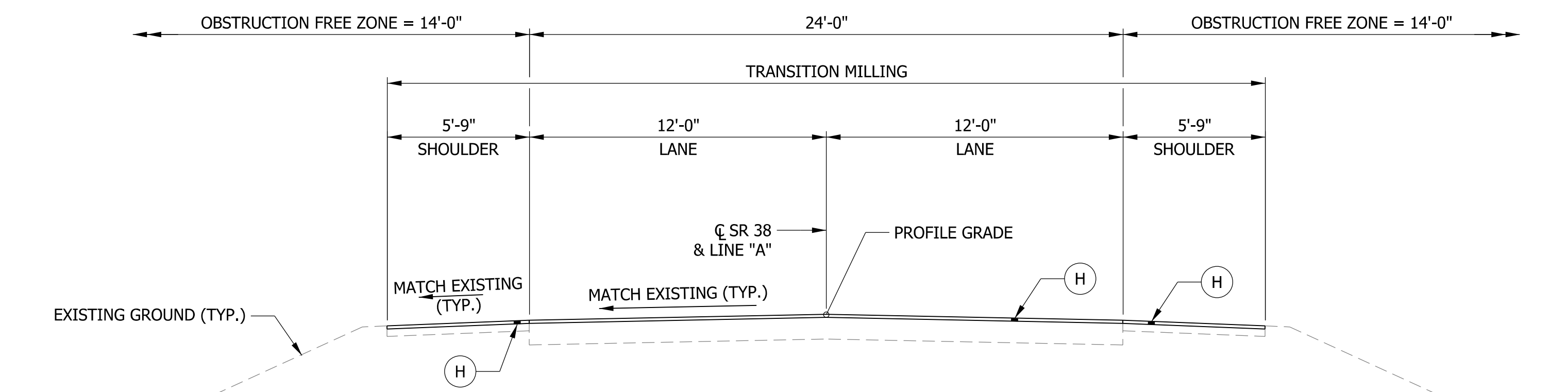
BRIDGE FILE	
038-33-10161	
DESIGNATION	
1593238	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 13
CONTRACT	PROJECT
B-40502	1593238



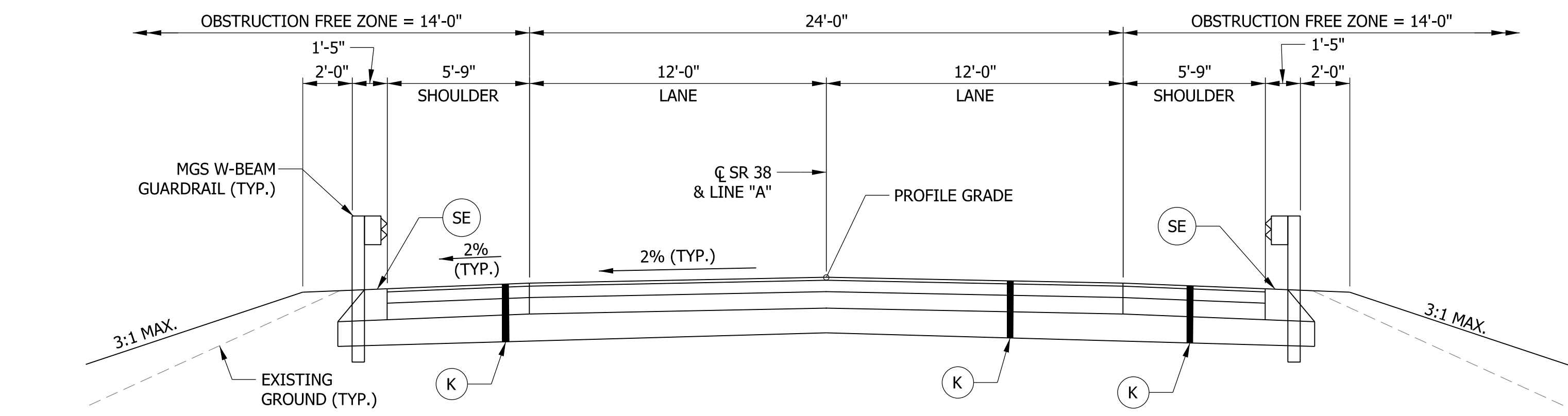
EXISTING TYPICAL SECTION



SAFETY EDGE ON HMA PAVEMENT
N.T.S.



TYPICAL INCIDENTAL SECTION
STA. 108+48 TO 108+78
STA. 114+33 TO 114+53



TYPICAL FULL DEPTH SECTION
STA. 108+78 TO 109+83
STA. 111+74 TO 114+33

NOTE TO REVIEWER

GRADING AND PROPOSED R/W LIMITS TO BE REFINED PRIOR TO THE NEXT SUBMISSION.

NOTE TO REVIEWER

PAVEMENT COMPOSITION TO BE REVISED UPON RECEIPT OF PAVEMENT DESIGN.

LEGEND

- (H) 165 LB/SYS QC/QA - HMA, 3, 64, SURFACE, 9.5 MM
- (K) 165 LB/SYS QC/QA - HMA, 3, 64, SURFACE 9.5 MM ON 605 LB/SYS QC/QA - HMA, 3, 64, INTERMEDIATE 19.0 MM ON 880 LB/SYS QC/QA - HMA, 3, 64, BASE 19.0 MM ON SUBGRADE TREATMENT TYPE IC
- (SE) SAFETY EDGE (SEE DETAIL THIS SHEET)

c:\center
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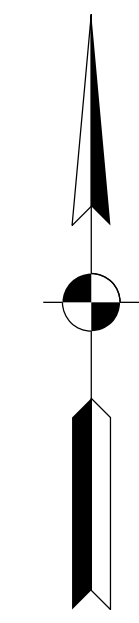
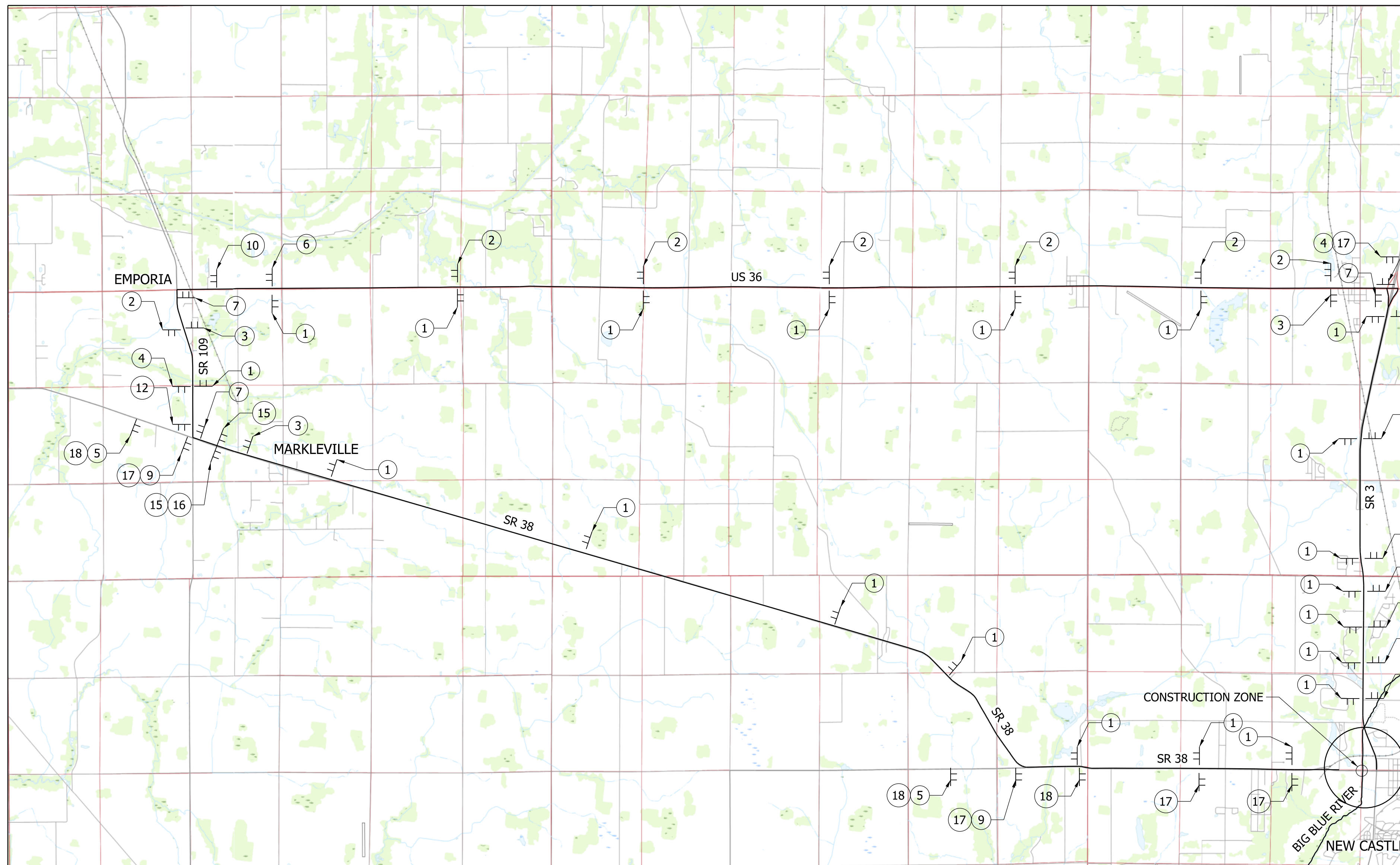
DRAFT
 NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JMR	DRAWN: JMR	
CHECKED: CDC	CHECKED: CDC	

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS

SCALE	BRIDGE FILE
1/4" = 1'-0"	038-33-10161
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1593238
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 13
CONTRACT	PROJECT
B-40502	1593238

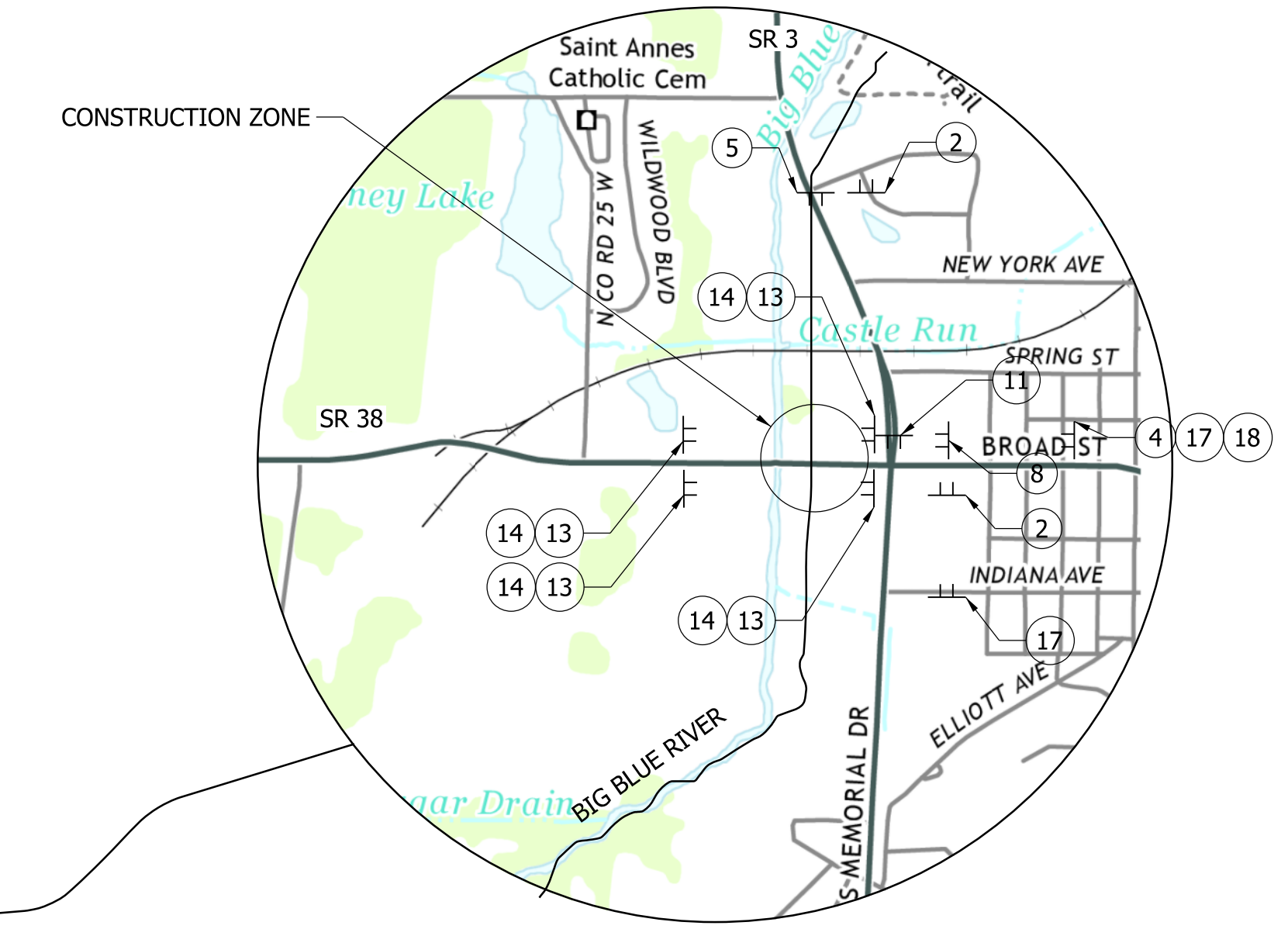


MOT SUMMARY		
ITEM	UNITS	TOTALS
DETOUR ROUTE MARKER ASSEMBLIES	EA	59
** CONSTRUCTION SIGN, A	EA	15
ROAD CLOSURE SIGN ASSEMBLY	EA	4
BARRICADE, III-A	LFT	48
BARRICADE, III-B	LFT	24
MAINTAINING TRAFFIC	LS	1

** INCLUDES 2 XG20-5 ROUTE CLOSURE NOTICE SIGNS (LOCATION TO BE DETERMINED BY PROJECT ENGINEER IN THE FIELD)

NOTES

- FOR ADDITIONAL MAINTENANCE OF TRAFFIC DETAILS, SEE STD. DWG. E 801-TCDD-01 THROUGH 04.



TYPE III-A BARRICADE (13) R11-2 ROAD CLOSED (14) TYPE III-B BARRICADE (15)

1	2	3	4	5	6	7	8	9	10	11	12

R11-4 (16)	XW20-3 (17)	R11-3b (18)	XG20-5 (19)

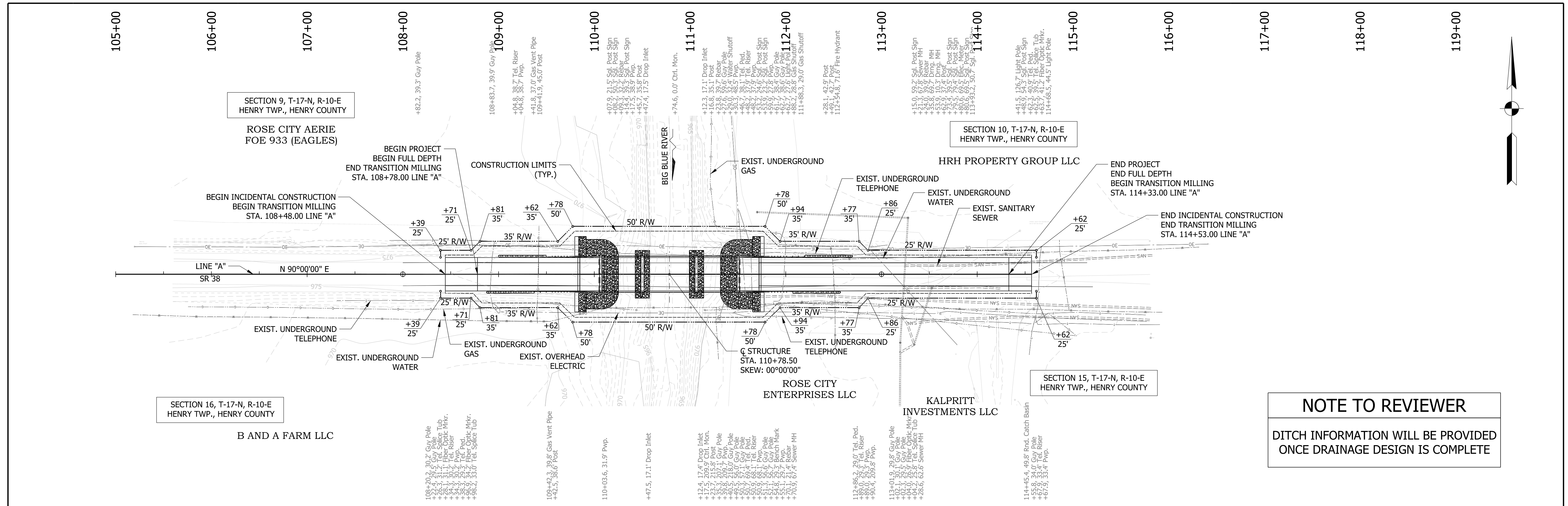
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DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JMR	DRAWN: JMR	
CHECKED: CDC	CHECKED: CDC	

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC

SCALE	BRIDGE FILE
NTS	038-33-10161
VERTICAL SCALE	DESIGNATION
NTS	1593238
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 13
CONTRACT	PROJECT
B-40502	1593238



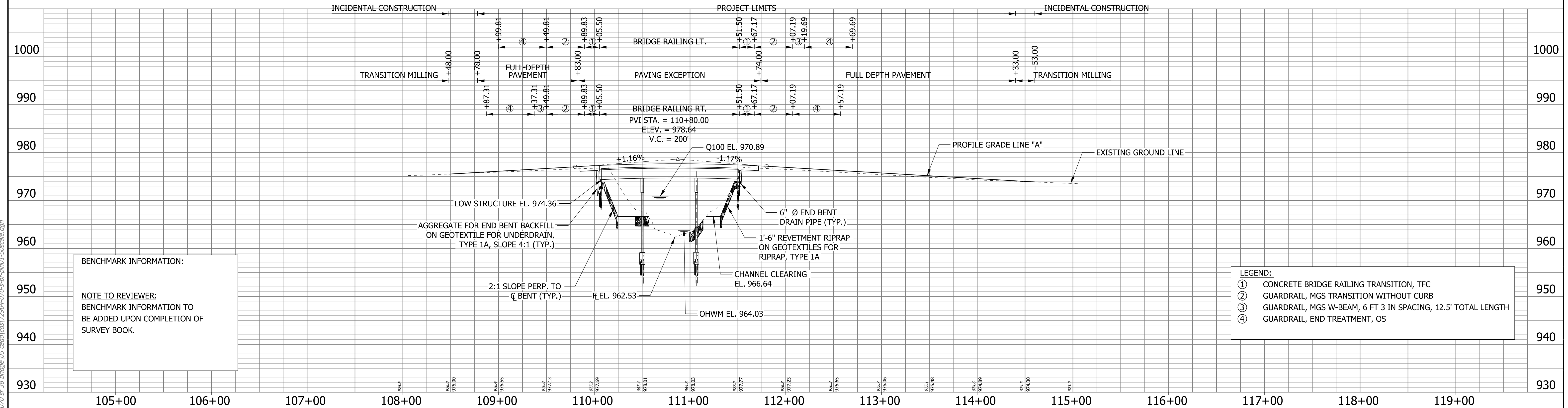
SECTION 9, T-17-N, R-10-E
HENRY TWP., HENRY COUNTY

SECTION 10, T-17-N, R-10-E
HENRY TWP., HENRY COUNTY

SECTION 16, T-17-N, R-10-E
HENRY TWP., HENRY COUNTY

SECTION 15, T-17-N, R-10-E
HENRY TWP., HENRY COUNTY

NOTE TO REVIEWER
DITCH INFORMATION WILL BE PROVIDED
ONCE DRAINAGE DESIGN IS COMPLETE



BENCHMARK INFORMATION:

NOTE TO REVIEWER:
BENCHMARK INFORMATION TO
BE ADDED UPON COMPLETION OF
SURVEY BOOK.

LEGEND:
 ① CONCRETE BRIDGE RAILING TRANSITION, TFC
 ② GUARDRAIL, MGS W-BEAM, 6 FT 3 IN SPACING, 12.5' TOTAL LENGTH
 ③ GUARDRAIL, MGS W-BEAM, 6 FT 3 IN SPACING, 12.5' TOTAL LENGTH
 ④ GUARDRAIL, END TREATMENT, OS

jmm@ndick
 2/14/2020 3:50:14 pm
 model: PlanProfile
 file: m:172904.indct of on call 070 sr 38 bridge 05 caad\cads\2904-070-sr-38-pp01-50scale.dgn

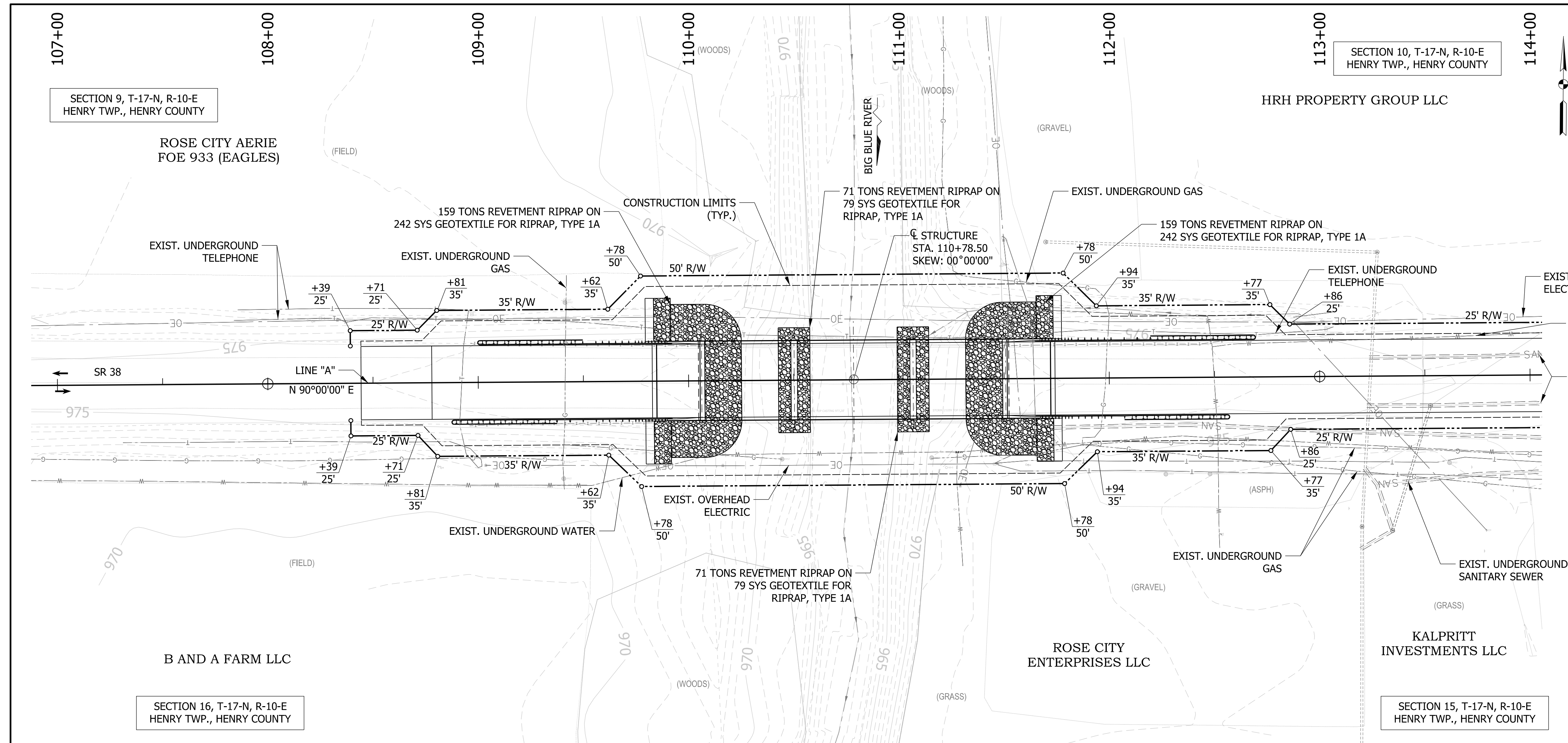
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NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JMR	DRAWN: JMR	
CHECKED: CDC	CHECKED: CDC	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE
LINE "A"

SCALE 1" = 50'	BRIDGE FILE 038-33-10161
VERTICAL SCALE 1" = 10'	DESIGNATION 1593238
SURVEY BOOK ELECTRONIC	SHEETS 5 of 13
CONTRACT B-40502	PROJECT 1593238



EXISTING STRUCTURE
 THE EXISTING STRUCTURE (038-33-04063 A) IS A THREE SPAN REINFORCED CONCRETE GIRDER BRIDGE BUILT IN 1958 WITH A DECK RECONSTRUCTION AND OVERLAY IN 1987 3 SPANS OF 40'-0" AND A CLEAR ROADWAY WIDTH OF 34'-10" (TO BE REMOVED)

HYDRAULIC DATA

WATERWAY OPENING REQUIRED	630	SFT
WATERWAY OPENING PROVIDED	630	SFT
DRAINAGE AREA	47.48	SQ MI
DESIGN DISCHARGE, Q100	2,821	CFS
VELOCITY	3.94	FT/S
Q100 ELEV.	970.89	FT
BACKWATER AT Q100	0.72	FT
EXISTING WATERWAY OPENING	494.8	SFT
EXISTING BACKWATER	0.68	FT
MIN. LOW STRUCTURE ELEV. REQ.	974.36	FT
EXISTING LOW STRUCTURE ELEV.	974.36	FT

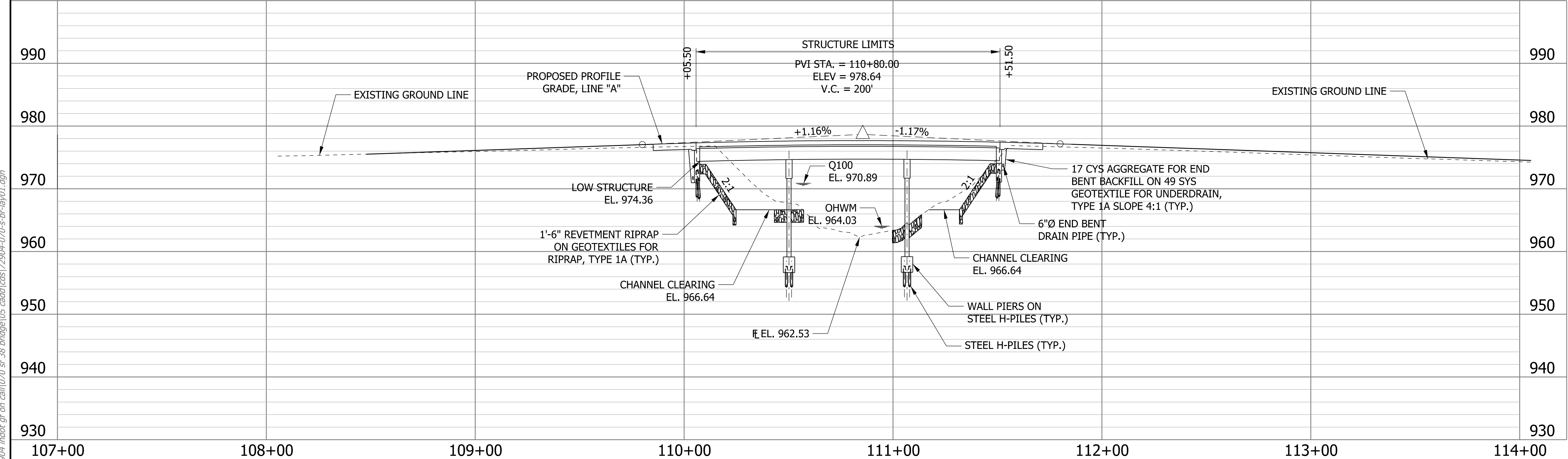
HYDRAULIC SCOUR DATA

Q100 DISCHARGE	2,821	CFS
Q100 ELEV.	970.89	FT
VELOCITY AT Q100 (MAX.)	4.98	FT/S
SCOUR DEPTH (CONTRACTION)	21.92	FT
SCOUR DEPTH (TOTAL)	26.72	FT
LOW SCOUR ELEV.	935.81	FT
Q500 DISCHARGE	3,808	CFS
Q500 ELEV.	971.29	FT
VELOCITY AT Q500 (MAX.)	5.88	FT/S
SCOUR DEPTH (CONTRACTION)	15.75	FT
SCOUR DEPTH (TOTAL)	20.55	FT
LOW SCOUR ELEV.	941.98	FT

EARTHWORK TABULATION

FILL + 20%	XX	CYS
COMMON EXCAVATION	XX	CYS
USABLE WATERWAY EXCAVATION (70%)	XX	CYS
SURPLUS FOUNDATION EXCAVATION (70%)	XX	CYS
BORROW	XX	CYS
TOTAL WATERWAY EXCAVATION	XX	CYS
EXCAVATION UNCLASSIFIED	XX	CYS
Ø BENCHING (ESTIMATED)	XX	CYS

NOTE TO REVIEWER
 EARTHWORK TABULATION TO BE COMPLETED AT STAGE 3



CONTINUOUS COMPOSITE STEEL BEAM BRIDGE
 3 SPANS: 44'-0", 56'-6", 44'-0"
 SKEW: 00°00'00"
 34'-10" CLEAR ROADWAY
 SR 38 OVER BIG BLUE RIVER
 HENRY COUNTY

DRAFT
 NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JMR	DRAWN: JMR	
CHECKED: CDC	CHECKED: CDC	

INDIANA
 DEPARTMENT OF TRANSPORTATION
 LAYOUT

SCALE	BRIDGE FILE
1" = 30'-0"	038-33-10161
VERTICAL SCALE	DESIGNATION
1" = 10'-0"	1593238
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 13
CONTRACT	PROJECT
B-40502	1593238

jmmadnick
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