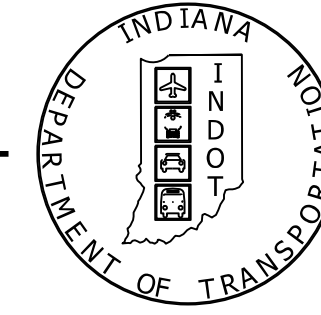


PROJECT	DESIGNATION
1700165	1700165
CONTRACT	BRIDGE FILE
R-40567	065-26-10331

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
065-26-10331	PRECAST REINFORCED CONCRETE THREE SIDED STRUCTURE	1 SPAN: 42'-0" SKEW: 08°30'00" LT.	BLACK RIVER	126+18.99 LINE "PR-A"

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: SR 65 AT: RP 18+03

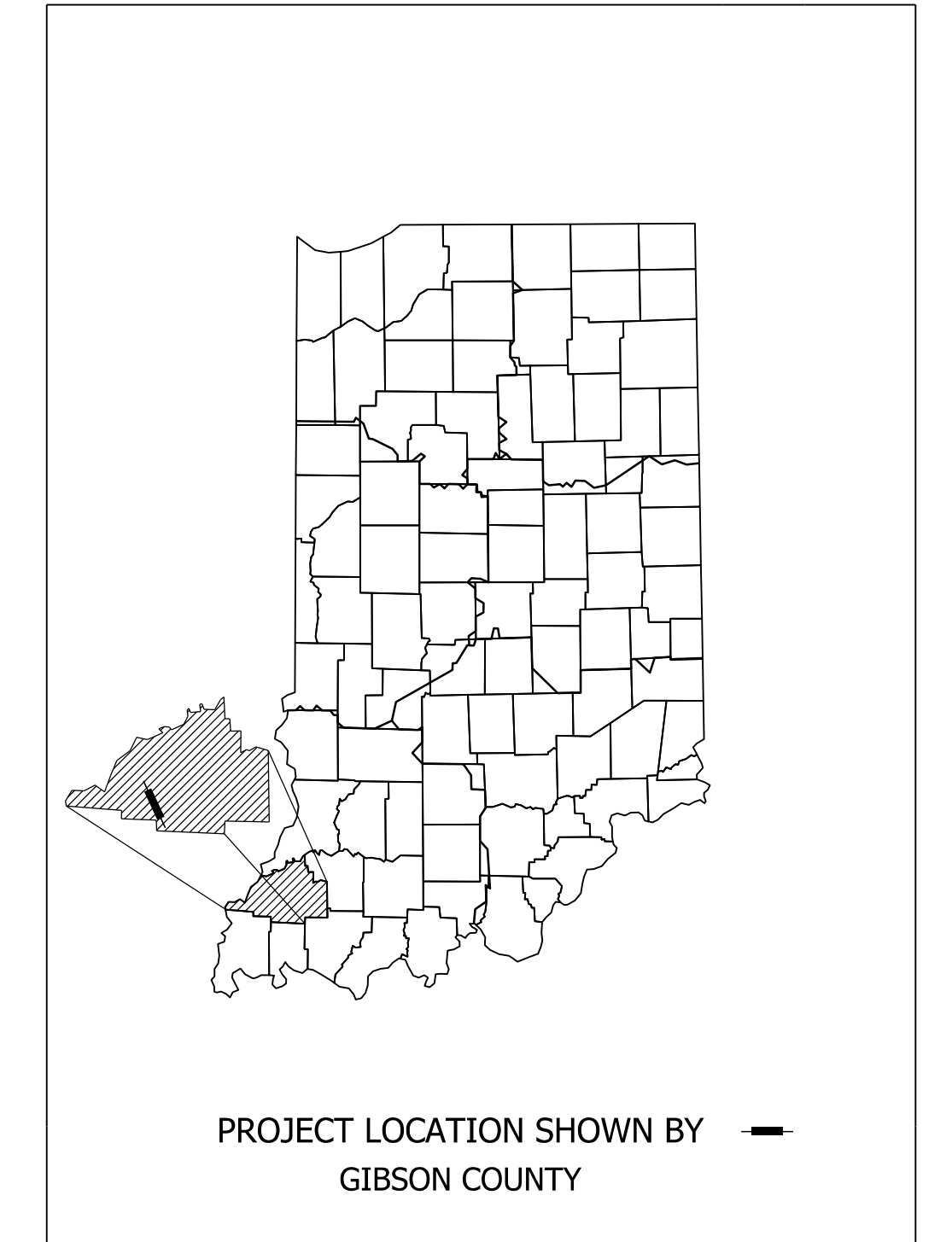
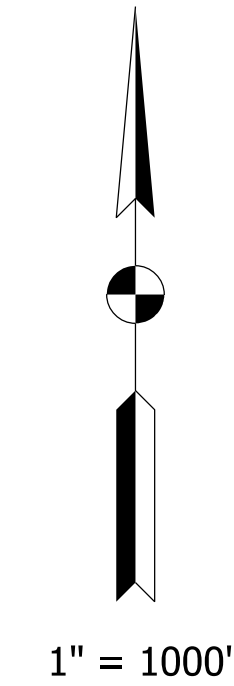
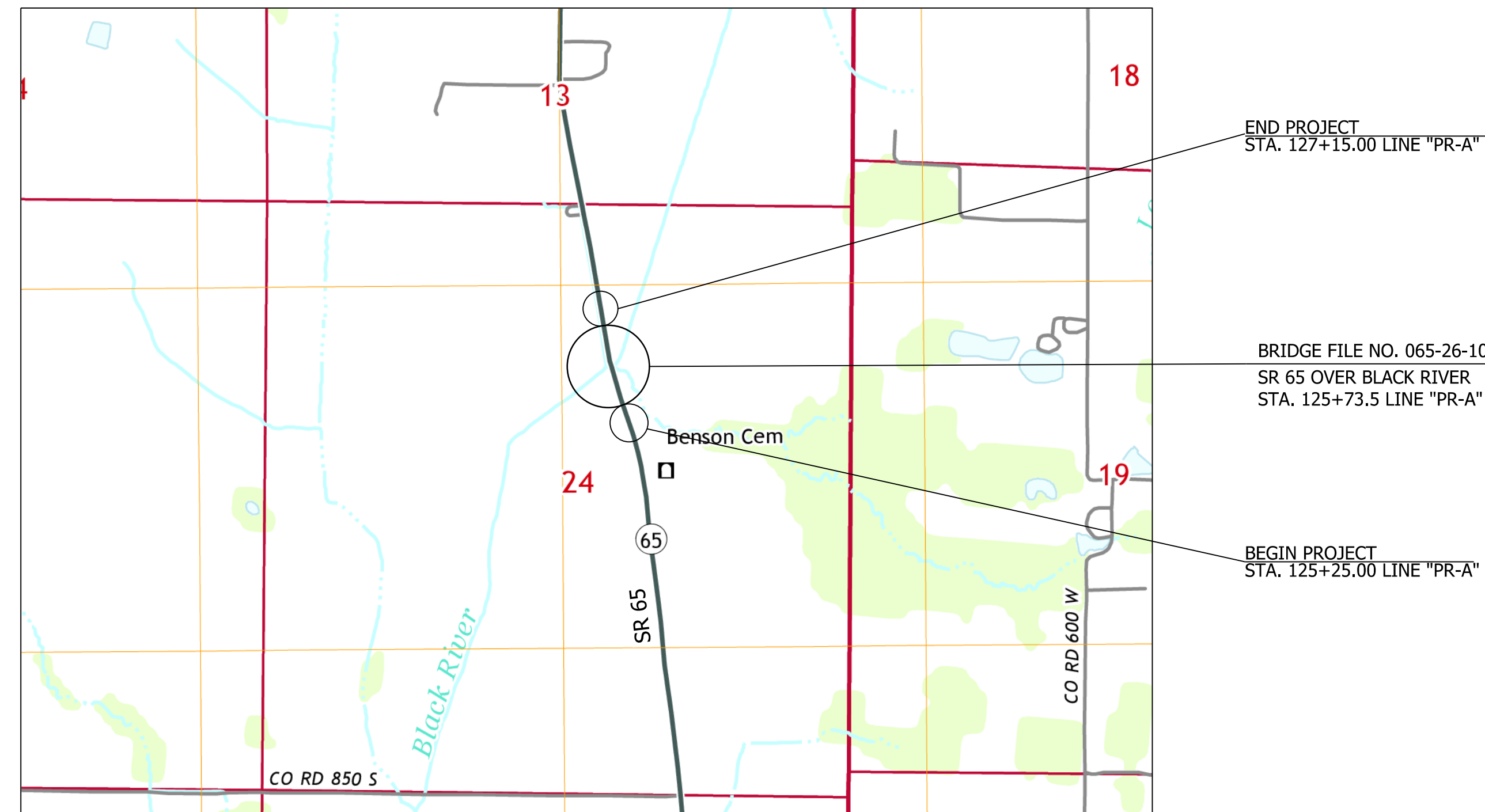
PROJECT NO. 1700165 P.E., CONST., (R/W)

TRAFFIC DATA		
A.A.D.T. (2022)	1380	V.P.D.
A.A.D.T. (2042)	1406	V.P.D.
D.H.V. (2042)	137	V.P.H.
DIRECTIONAL DISTRIBUTION	49.53	%
TRUCKS	16.68	% A.A.D.T.
	7.46	% D.H.V.

DESIGN DATA	
DESIGN SPEED	55 MPH
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

KIN PROJECT INFORMATION		
DESIGNATION	PROJECT DESCRIPTION	LEAD DES
1601062	SR 65 PAVEMENT REHABILITATION	
1700165	SR 65 OVER BLACK RIVER	

BRIDGE REPLACEMENT ON SR 65 OVER BLACK RIVER,
LOCATED APPROXIMATELY 2.09 MILES SOUTH OF SR 168,
IN SECTION 24, T-3-S, R-12-W,
MONTGOMERY TOWNSHIP, GIBSON COUNTY, INDIANA.



LATITUDE: 38° 14' 27" LONGITUDE: 87° 41' 44"

BRIDGE LENGTH:	0.010	MI.
ROADWAY LENGTH:	0.026	MI.
TOTAL LENGTH:	0.036	MI.
MAX. GRADE:	-0.647	%

HUC: 051201130502

LOCATION MAP
(GIBSON COUNTY)

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

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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	
065-26-10331	
DESIGNATION	
1700165	
SHEETS	
SURVEY BOOK	1 of 19
ELECTRONIC	
CONTRACT	PROJECT
R-40567	1700165

UTILITIES

GAS AND ELECTRIC

COMMUNITY NATURAL GAS - OWENSVILLE
 933 W 3RD STREET
 MT. CARMEL, IL 62863
 (618) 263-3328
 DEAN KIEFFER
 DEAN@COMMUNITYNATURALGAS.COM

DUKE ENERGY
 390 N MAIN STREET
 MARTINSVILLE, IN 46151
 (765) 349-4012
 TIM UBAUGH
 TIM.UBAUGH@DUKE-ENERGY.COM

COUNTRYMARK REFINING & LOGISTICS, LLC
 1200 REFINERY ROAD
 MOUNT VERNON, IN 47620
 (812) 833-2598
 JAMIE POSNER
 JAMIE.POSNER@COUNTRYMARK.COM

ENTERPRISE PRODUCTS OPERATING, LLC
 9420 WEST SAM HOUSTON PARKWAY NORTH
 HOUSTON, TX 77064
 (281) 887-3306
 TIFFANY CAMPBELL
 TCCAMPBELL@EPROD.COM

ENBRIDGE ENERGY
 555 MARRIOT DRIVE, SUITE 600
 NASHVILLE, TN 37214
 (218) 349-9085
 D ROSS PINNEY
 ROSS.PINNEY@ENBRIDGE.COM

COMMUNICATION

FRONTIER
 505 NEWTON STREET
 JASPER, IN 47546
 (812) 639-1835
 SCOTT SHIELDS
 SCOTT.D.SHIELDS@FTR.COM

INDEX

SHEET NO.	SUBJECT
1	TITLE SHEET
2	INDEX
3	TYPICAL SECTIONS
4	MAINTENANCE OF TRAFFIC DETAILS
5	PLAN AND PROFILE
6	EROSION CONTROL DETAILS
7	EROSION CONTROL SOILS MAP
8	RESTORATION PLAN
9-10	SOIL BORINGS
11	LAYOUT
12-13	GENERAL PLAN
14	STRUCTURE DETAILS
15	SUMMARY TABLES
16-19	CROSS SECTIONS

REVISIONS

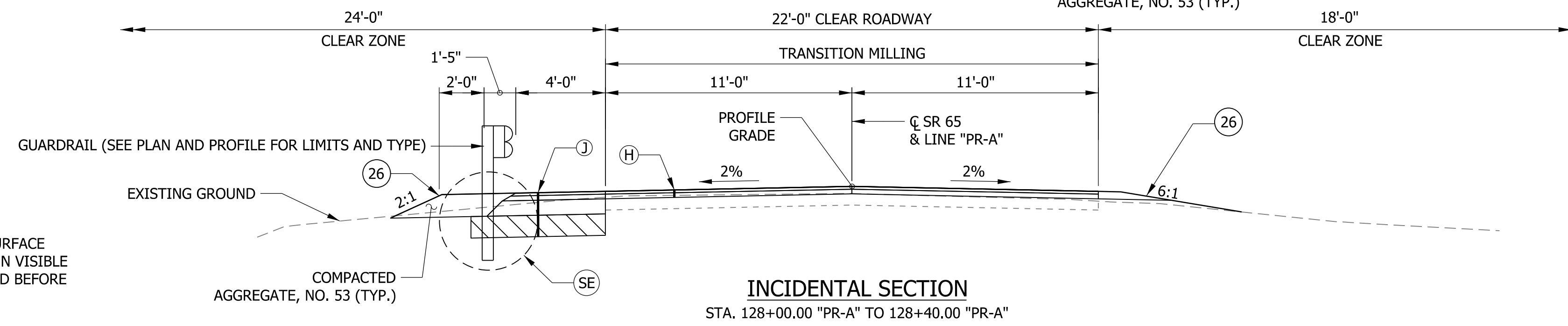
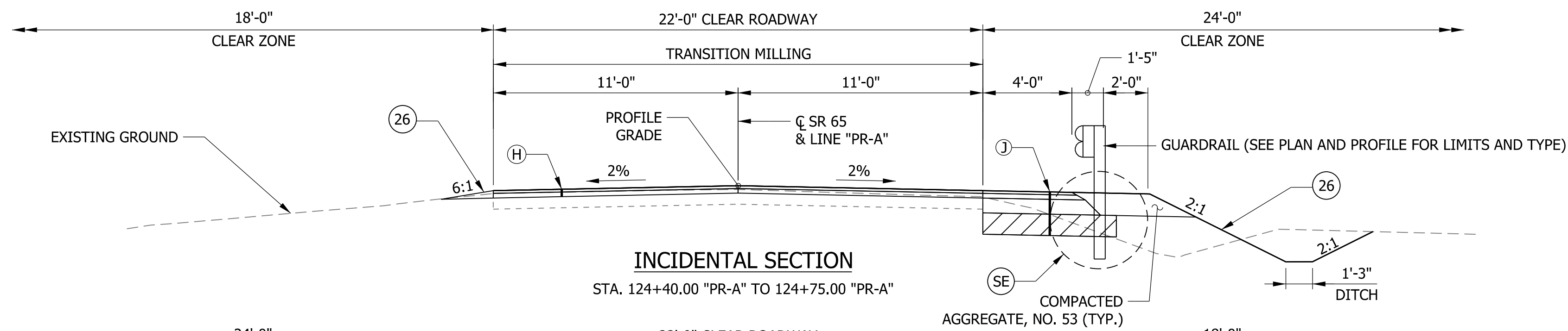
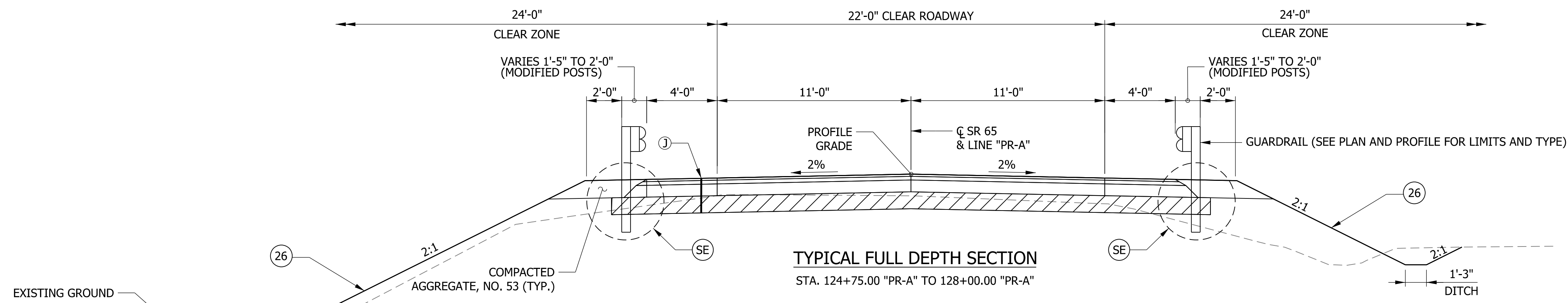
SHEET NO.	DATE	REVISED
6,8 and 10	6/21/2021	Added Temp. R/W
6,8 and 10	7/01/2021	Removed Temp. R/W & Expanded Permanent R/W
10	9/28/2021	Corrected Parcel Labels for Leases on Parcel 1
6,8 and 10	10/29/2021	Revised Parcel 2; Eliminated Parcel 2A
6,8 and 10	3/08/2022	Revised Parcel 1 Property Owner Name

DRAFT
NOT FOR CONSTRUCTION

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

INDIANA DEPARTMENT OF TRANSPORTATION
INDEX

HORIZONTAL SCALE N/A	BRIDGE FILE 065-26-10331
VERTICAL SCALE N/A	DESIGNATION 1700165
SURVEY BOOK ELECTRONIC	SHEETS 2 of 19
CONTRACT R-40567	PROJECT 1700165

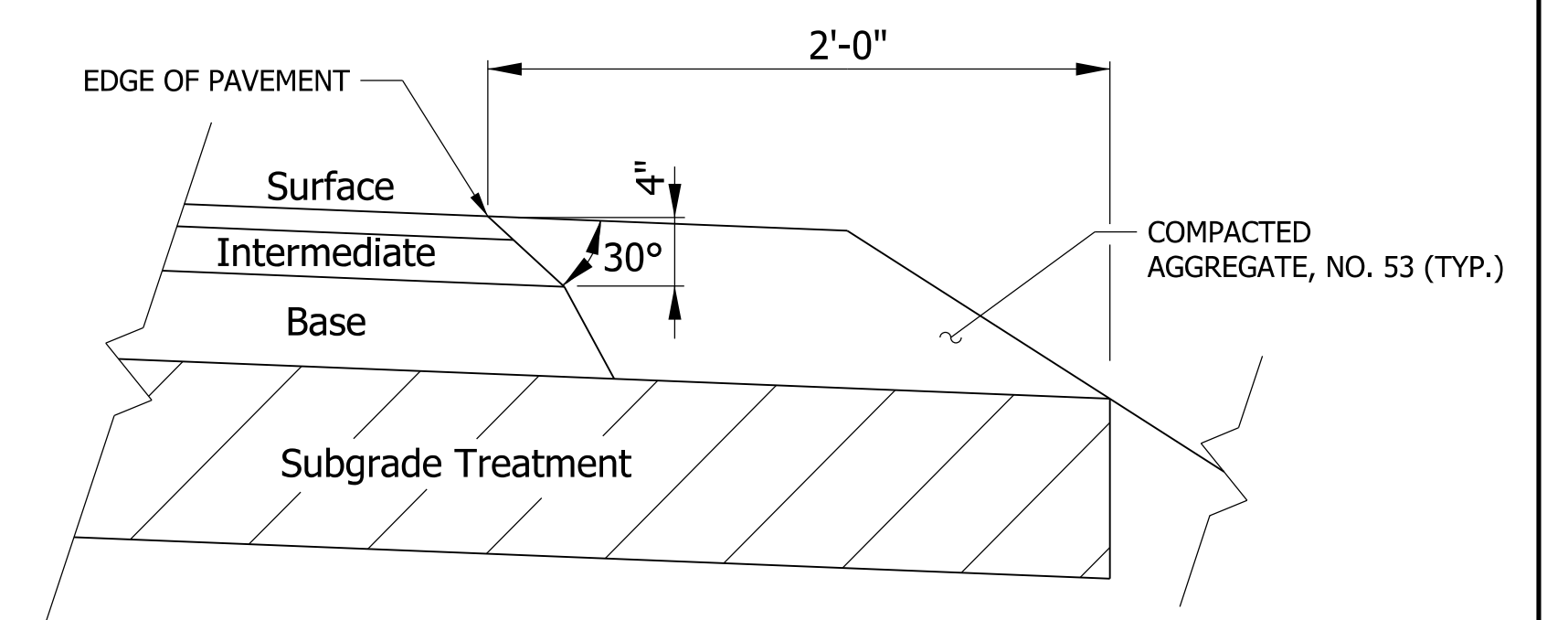
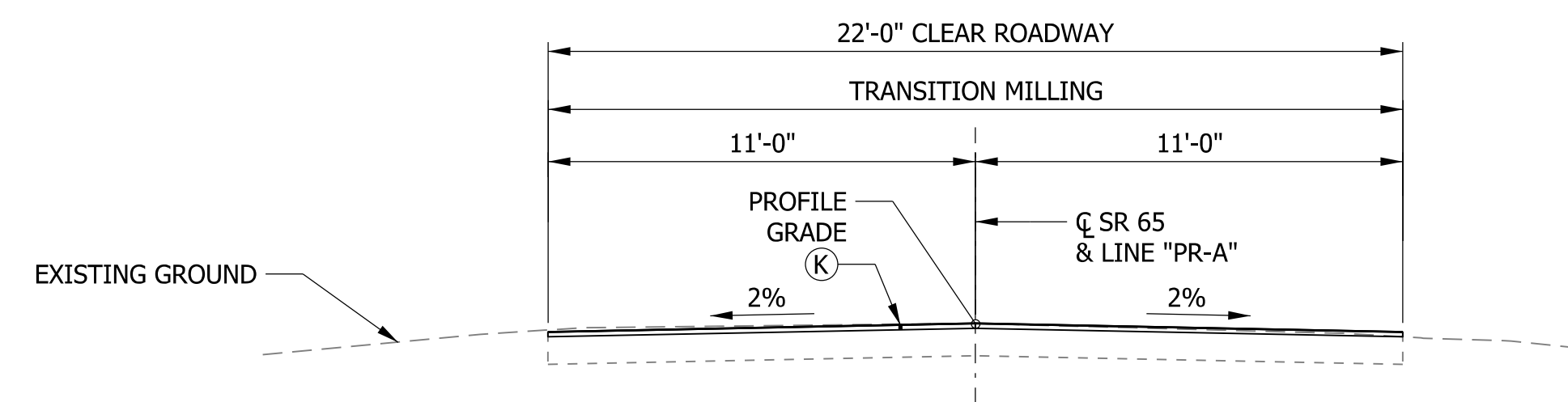


NOTES:

1. AFTER MILLING THE EXISTING ASPHALT PAVEMENT SURFACE IN THE INCIDENTAL LIMITS, ANY CRACKS THAT REMAIN VISIBLE WITH 0.25 INCH WIDTH OR GREATER SHALL BE SEALED BEFORE APPLYING TACK COAT TO THE MILLED SURFACE.
2. SAFETY EDGE NOT REQUIRED WHERE GUARDRAIL IS PRESENT.

LEGEND

- (K) 165 LBS/SYS QC/QA-HMA, 3, 64, SURFACE, 9.5 MM
- (H) 165 LBS/SYS QC/QA-HMA, 3, 64, SURFACE, 9.5 MM ON 275 LBS/SYS QC/QA-HMA, 2, 64 INTERMEDIATE, 19.0 MM
- (J) 165 LBS/SYS QC/QA-HMA, 3, 64, SURFACE, 9.5 MM ON 275 LBS/SYS QC/QA-HMA, 2, 64, INTERMEDIATE, 19.0 MM ON 660 LBS/SYS QC/QA-HMA, 2, 64, BASE, 19.0 MM ON SUBGRADE TREATMENT, TYPE IC
- (26) MULCHED SEEDING, R
- (SE) SAFETY EDGE (SEE DETAIL THIS SHEET)
- [Hatched Box] SUBGRADE TREATMENT, TYPE IC



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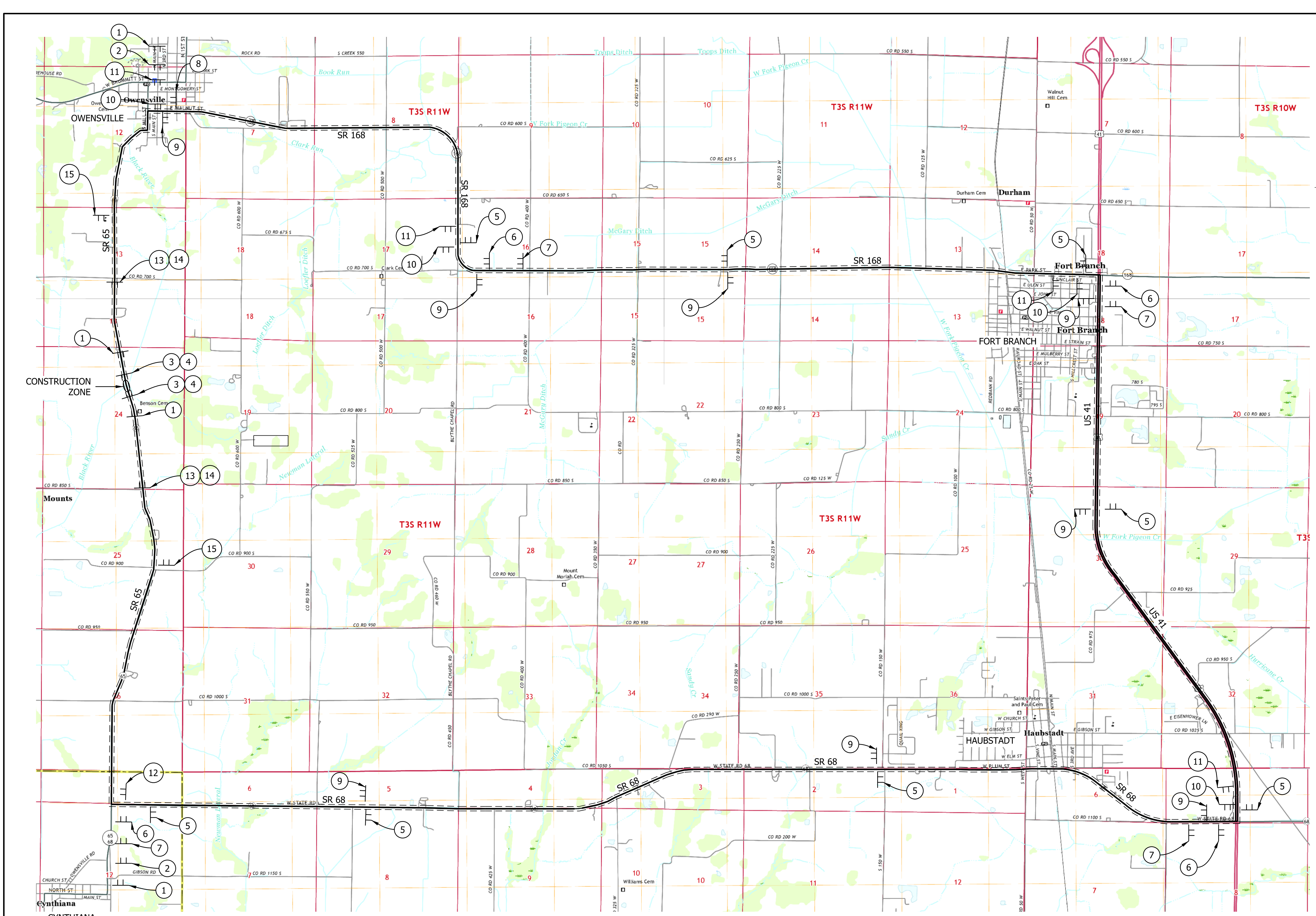
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DESIGNED: NIK	DRAWN: NIK	
CHECKED: JEB	CHECKED: JEB	

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	065-26-10331
VERTICAL SCALE	DESIGNATION
1/4" = 1'-0"	1700165
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 19
CONTRACT	PROJECT
R-40567	1700165

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1
 XW20-3

2
 XW20-2

3
 TYPE III-A BARRICADE

4
 ROAD CLOSED
 R11-2

5

6

7

8

9

10

11

12

13
 TYPE III-B BARRICADE

14
 ROAD CLOSED TO THRU TRAFFIC
 R11-4

15
 ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
 R11-3a

DETOUR MAP

MOT SUMMARY		
ITEM	UNITS	TOTALS
DETOUR ROUTE MARKER ASSEMBLIES	EA	34
CONSTRUCTION SIGN, A	EA	12
ROAD CLOSURE SIGN ASSEMBLY	EA	2
BARRICADE, III-A	LF	72
BARRICADE, III-B	LF	48

** INCLUDES 2 XG20-5 ROUTE CLOSURE NOTICE SIGNS, TO BE FIELD LOCATED BY ENGINEER.

LEGEND:

— SIGN ASSEMBLY

== DETOUR ROUTE

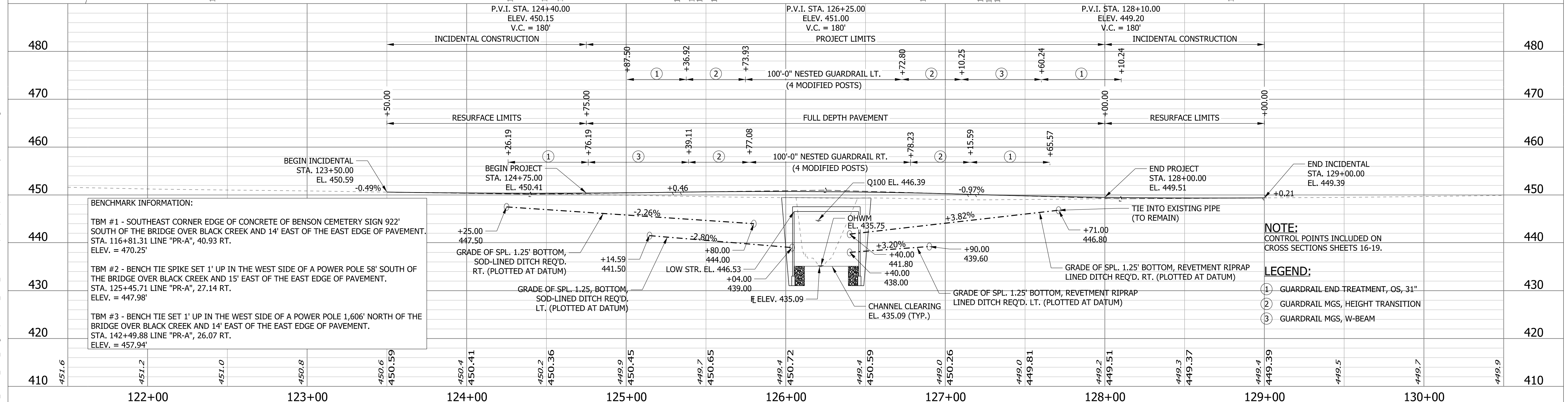
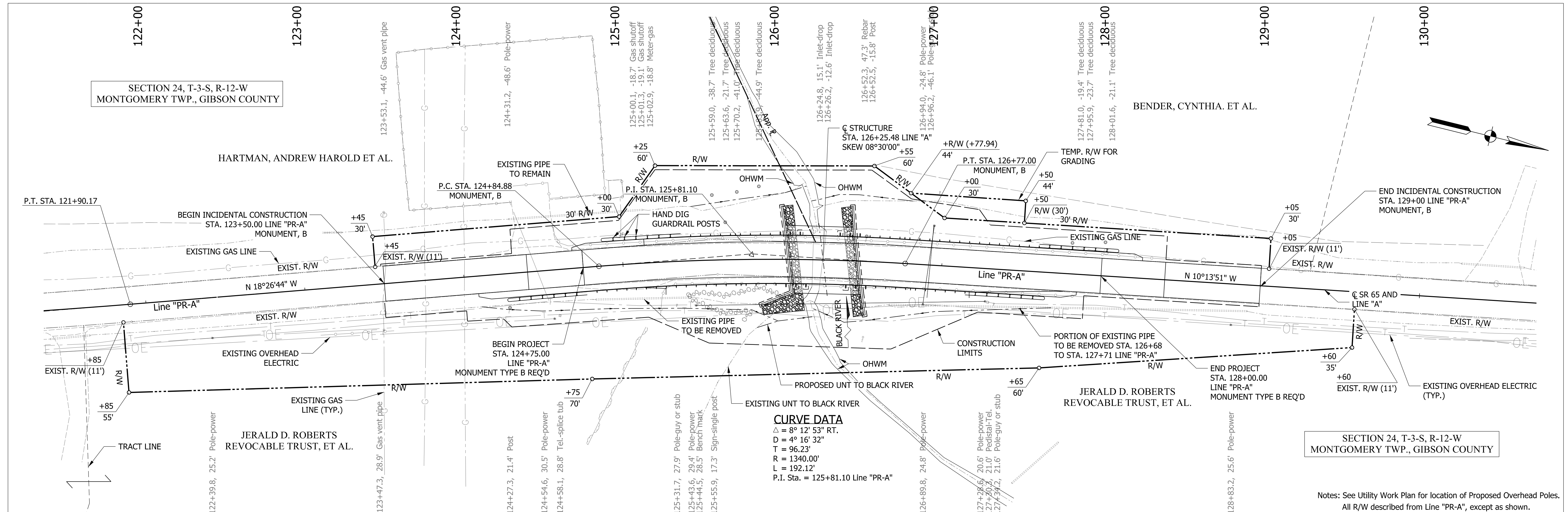
- NOTES:**
- SIGN (7) SHALL BE PLACED 500' PRIOR TO SIGN (6) OR (8).
 - SIGN (11) SHALL BE PLACED 500' PRIOR TO SIGN (10) OR (12).
 - FOR ADDITIONAL INFORMATION ON DETOUR SIGN PLACEMENT, SEE STD. DWG. E 801-TCDDT-01 THROUGH -04.

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EAH	DRAWN: EAH	
CHECKED: MLT	CHECKED: MLT	

INDIANA DEPARTMENT OF TRANSPORTATION
 MAINTENANCE OF TRAFFIC DETAILS

HORIZONTAL SCALE	BRIDGE FILE
NOT TO SCALE	065-26-10331
VERTICAL SCALE	DESIGNATION
NOT TO SCALE	1700165
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 19
CONTRACT	PROJECT
R-40567	1700165



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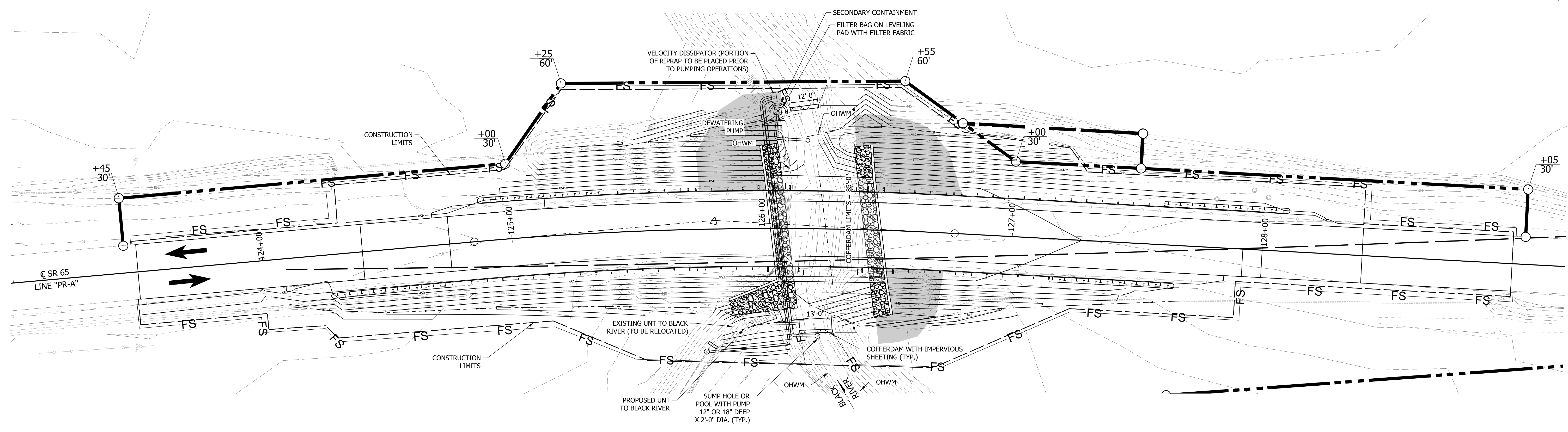
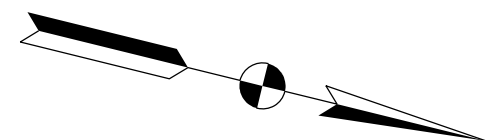
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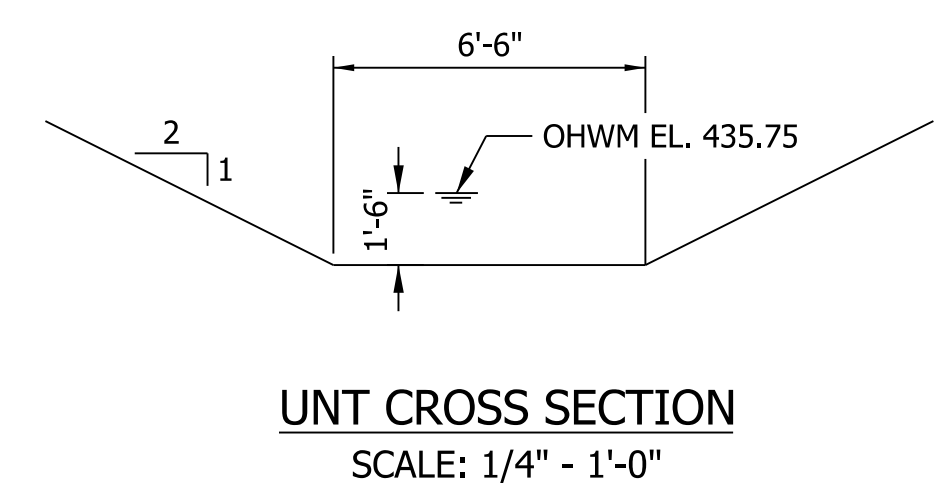
**INDIANA
DEPARTMENT OF TRANSPORTATION**

PLAN AND PROFILE

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 065-26-10331
VERTICAL SCALE 1" = 10'	DESIGNATION 1700165
SURVEY BOOK ELECTRONIC	SHEETS 5 of 19
CONTRACT R-40567	PROJECT 1700165



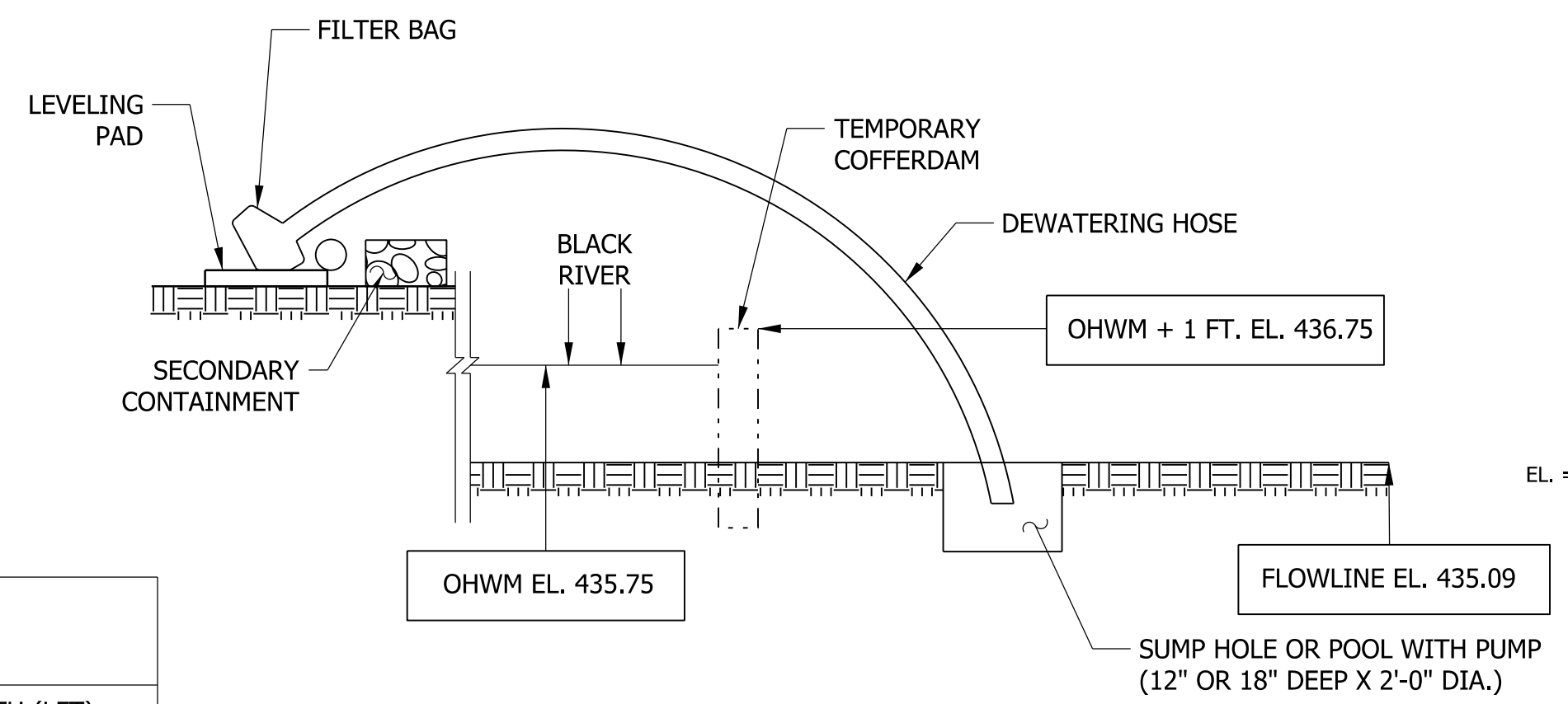
PLAN
SCALE: 1" - 20'-0"



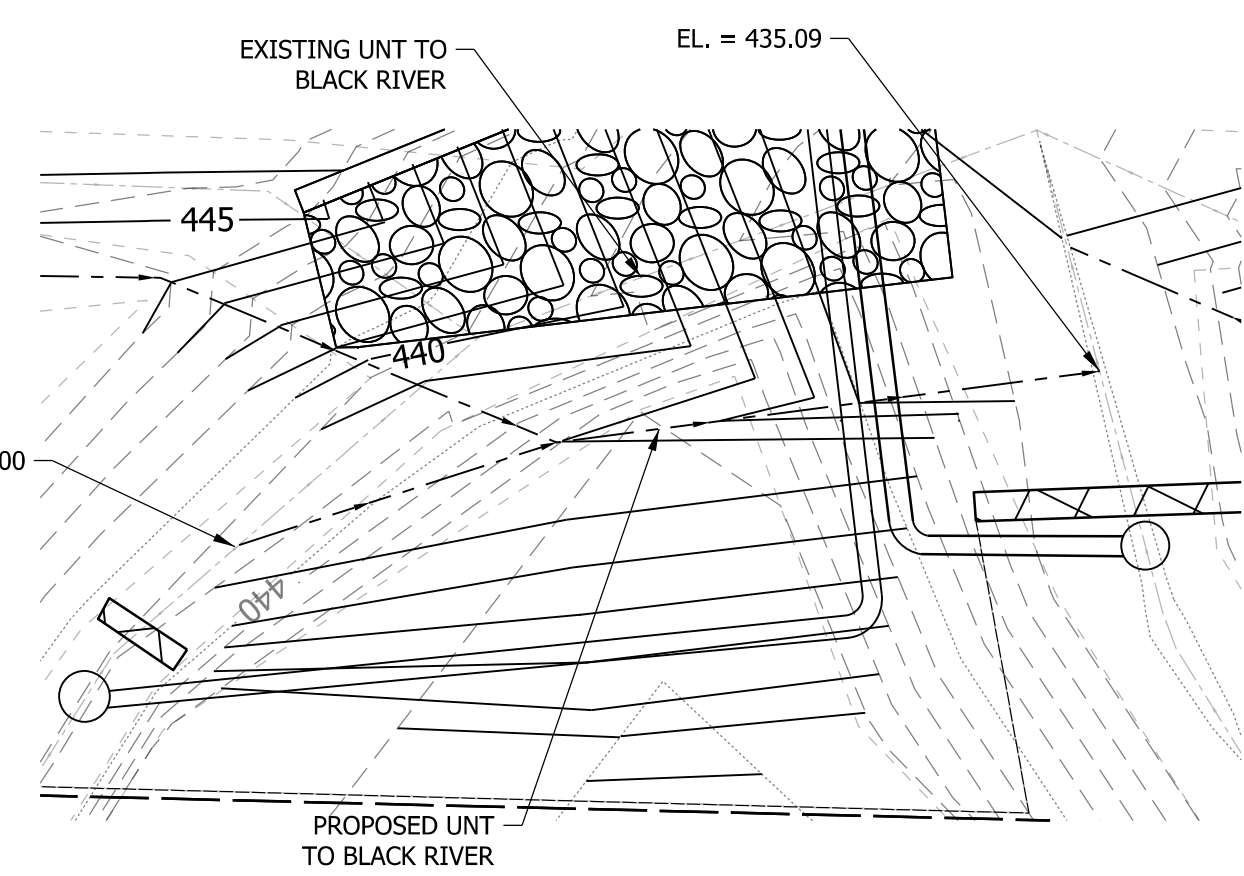
UNT CROSS SECTION
SCALE: 1/4" - 1'-0"

- LEGEND**
- FS FILTER SOCK
 - ROCK FILTER BERM
 - OHWM ORDINARY HIGH WATER MARK
 - CONSTRUCTION ACCESS
 - EXISTING TREE
 - TEMPORARY COFFERDAM

- NOTES:**
1. CONTRACTOR SHALL DETERMINE METHOD OF PLACING SCOUR PROTECTION.
 2. CONTRACTOR SHALL VERIFY EXISTING FLOW LINE ELEVATION TO SET THE APPROPRIATE PUMP DEPTH.
 3. PUMP AROUND SHOWN IS PART OF DOCUMENTATION INCLUDED FOR PERMIT APPROVAL. SEE SPECIAL PROVISIONS.
 4. DISTURBED AREAS ABOVE THE Q100 WILL BE REGRADED AND RESTORED WITH MULCHED SEEDING, R OR SEED MIXTURE R. EROSION CONTROL BLANKET AND SEED MIXTURE R SHALL BE USED ON ANY SLOPES 3:1 OR STEEPER, EXCEPT WHEN PROTECTED BY PERMANENT EROSION CONTROL MEASURES.
 5. DISTURBED AREAS BELOW THE Q100 WILL BE REGRADED AND RESTORED WITH SEED MIXTURE, FLOODPLAIN.
 6. DEWATERING SHALL BE USED TO PLACE STRUCTURE AND RIPRAP IN DRY CONDITIONS. BE REMOVED SOONER IF PROJECT IS COMPLETE.
 7. POSITION HOSE SO INTAKE DOES NOT REST ON STREAM BED.
 8. TEMPORARY DEWATERING MEASURES ARE EXPECTED TO BE IN PLACE MAXIMUM 3 MONTHS. TO BE REMOVED SOONER IF PROJECT IS COMPLETE.
 9. BLACK RIVER Q100 ELEVATION = 446.39



DEWATERING / WORK AREA
NOT TO SCALE



UNT RELOCATION DETAIL
SCALE: 1/8" - 1'-0"

CONSTRUCTION * ENTRANCES	
NO. 2 STONE (TONS)	TEMP. GEOTEXTILES (SYS)
100	235

SEDIMENT REMOVE *	
SILT FENCE	4 CYS

FILTER SOCK*	
LOCATION	LENGTH (LFT)
STA. 123+48 TO 126+11 LT.	305
STA. 123+48 TO 126+12 RT.	300
STA. 126+22 TO 129+01 LT.	315
STA. 126+29 TO 129+01 RT.	300
TOTAL	1220

* FOR INFORMATION ONLY. ESTIMATED QUANTITY INCLUDED IN STORM WATER MANAGEMENT BUDGET.

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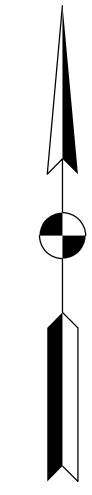
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EDK	DRAWN: EDK	
CHECKED: MLT	CHECKED: MLT	

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

HORIZONTAL SCALE AS SHOWN	BRIDGE FILE 065-26-10331
VERTICAL SCALE AS SHOWN	DESIGNATION 1700165
SURVEY BOOK ELECTRONIC	SHEETS 6 of 19
CONTRACT R-40567	PROJECT 1700165



SOIL CLASSIFICATIONS	
MAP SYMBOL	MAP UNIT NAME
AIB2	Alford silt loam, 2 to 5 percent slopes, eroded
AIC3	Alford silt loam, 5 to 10 percent slopes, severely eroded
AID2	Alford silt loam, 5 to 10 percent slopes, eroded
AID3	Alford silt loam, 10 to 18 percent slopes, severely eroded
Ma	Maplehill silt loam, frequently flooded
MuB2	Muren silt loam, 2 to 6 percent slopes, eroded
Ra	Ragsdale silt loam
Rb	Ragsdale silt loam, overwash
UnB2	Uniontown silt loam, 2 to 6 percent slopes, eroded

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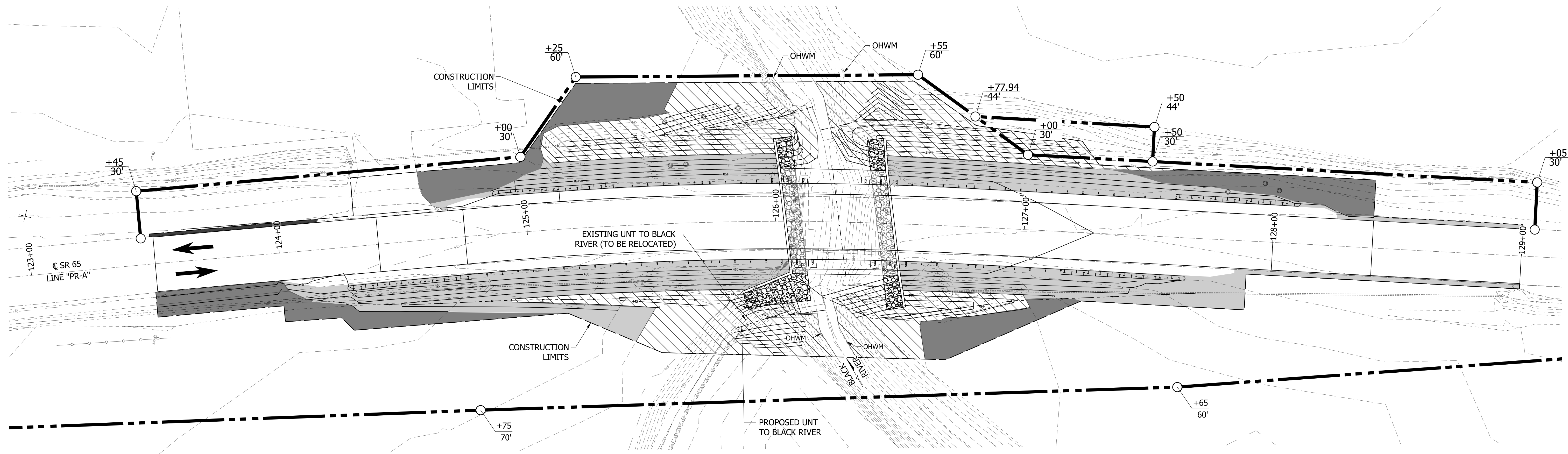
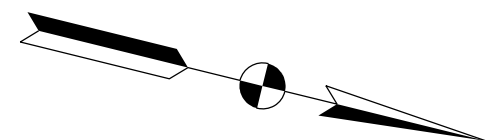
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INDIANA
 DEPARTMENT OF TRANSPORTATION




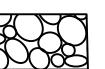
 EROSION CONTROL SOILS MAP

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE 065-26-10331
VERTICAL SCALE 1" = 100'	DESIGNATION 1700165
SURVEY BOOK ELECTRONIC	SHEETS 7 of 19
CONTRACT R-40567	PROJECT 1700165



PLAN
SCALE: 1" = 20'-0"

LEGEND

	SEED MIX FLOODPLAIN
	SEED MIX R
	MULCHED SEEDING R
	CLASS 1 RIPRAP ON GEOTEXTILES FOR RIPRAP TYPE 1B

- NOTES:**
- SR 65 BLACK RIVER DRAINAGE AREA = 2.27 SQUARE MILES.
 - BLACK RIVER Q100 EL. = 446.39
 - DISTURBED AREAS ABOVE THE Q100 WILL BE REGRADED AND RESTORED WITH MULCHED SEEDING, R OR SEED MIXTURE R. EROSION CONTROL BLANKET SEEDING AND SEED MIXTURE R SHALL BE USED ON ANY SLOPES 3:1 OR STEEPER, EXCEPT WHEN PROTECTED BY PERMANENT EROSION CONTROL MEASURES.
 - DISTURBED AREAS BELOW THE Q100 WILL BE REGRADED AND RESTORED WITH SEED MIXTURE, FLOODPLAIN.
 - SEE STD. SPECIFICATIONS FOR SEED MIXTURE CONTENTS AND APPLICATION RATES.

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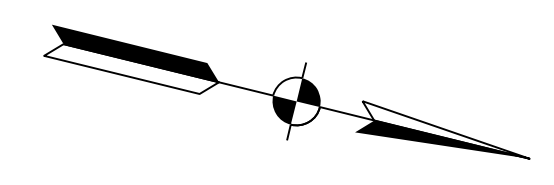
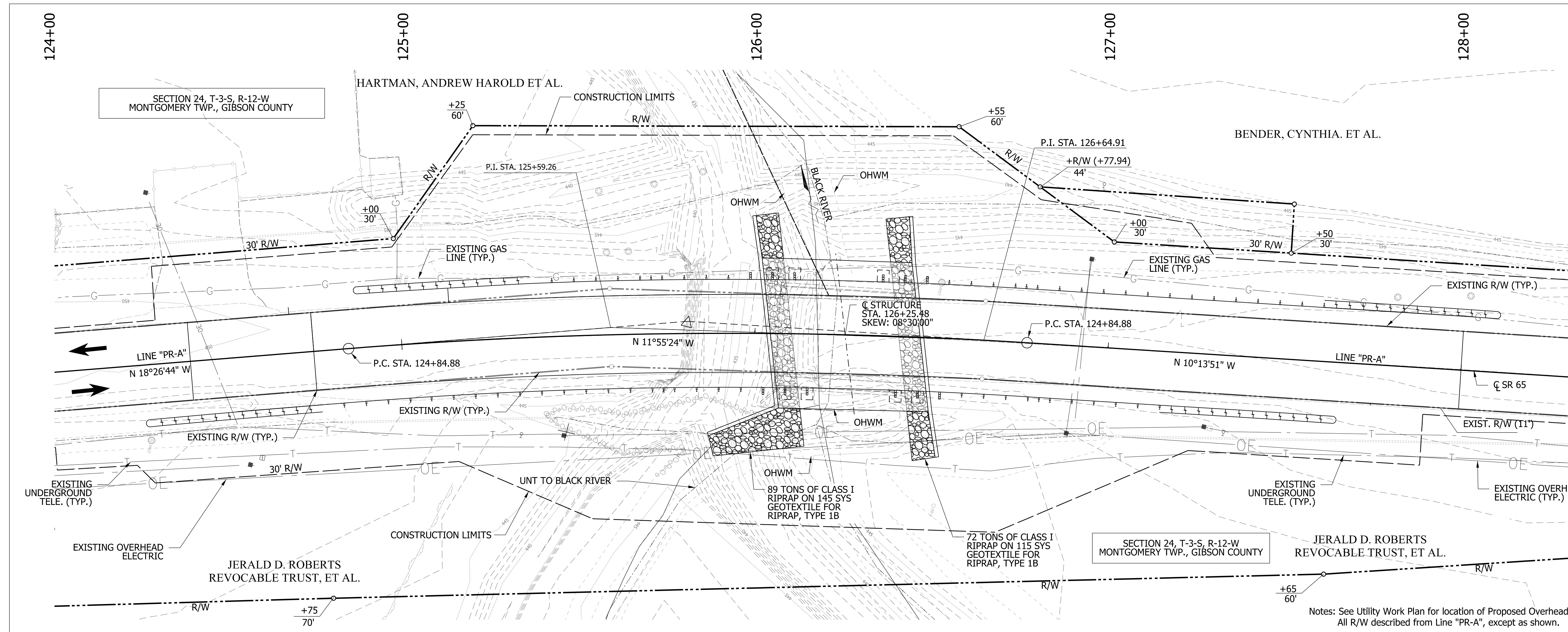
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DESIGNED: EDK	DRAWN: EDK	
CHECKED: MLT	CHECKED: MLT	

INDIANA
DEPARTMENT OF TRANSPORTATION

RESTORATION PLAN

HORIZONTAL SCALE AS SHOWN	BRIDGE FILE 065-26-10331
VERTICAL SCALE AS SHOWN	DESIGNATION 1700165
SURVEY BOOK ELECTRONIC	SHEETS 8 of 19
CONTRACT R-40567	PROJECT 1700165



EXISTING STRUCTURE
(NOT TO SCALE)
THE EXISTING STRUCTURE (065-26-00313) IS A SINGLE SPAN REINFORCED CONCRETE GIRDER BRIDGE BUILT IN 1924 WITH A SINGLE SPAN OF 30'-0" AND A CLEAR ROADWAY WIDTH OF 28'-0" (TO BE REMOVED)

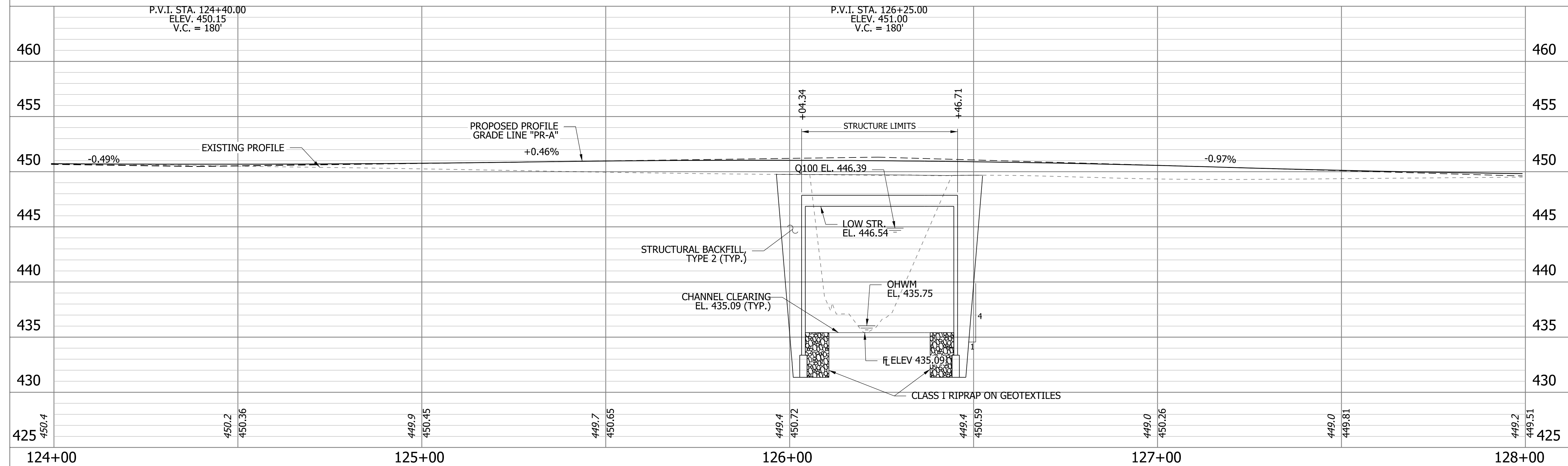
HYDRAULIC DATA

WATERWAY OPENING REQUIRED	237.1	SFT
WATERWAY OPENING PROVIDED	474.60	SFT
DRAINAGE AREA	2.3	SQ MI
DESIGN DISCHARGE, Q100	1619	CFS
VELOCITY	6.67	FT/S
Q100 ELEV.	446.39	FT
BACKWATER AT Q100	1.00	FT
EXISTING WATERWAY OPENING	216	SFT
EXISTING BACKWATER	1.28	FT
MIN. LOW STRUCTURE ELEV. REQ.	446.54	FT
EXISTING LOW STRUCTURE ELEV.	446.54	FT

EARTHWORK TABULATION

FILL + 25%	714	CYS
COMMON EXCAVATION	295	CYS
USABLE WATERWAY EXCAVATION (0%)	0	CYS
SURPLUS FOUNDATION EXCAVATION (0%)	0	CYS
BORROW	279	CYS
TOTAL WATERWAY EXCAVATION	55	CYS
EXCAVATION UNCLASSIFIED	486	CYS
BENCHING (ESTIMATED)	476	CYS

Notes: See Utility Work Plan for location of Proposed Overhead Poles
All R/W described from Line "PR-A", except as shown.



**PRECAST REINFORCED CONCRETE
THREE-SIDED FLAT TOP STRUCTURE**
42'-0" SPAN 13'-6" RISE
SKEW: 08°30'00" LT.
30'-0" CLEAR ROADWAY
SR 65 OVER BLACK RIVER
GIBSON COUNTY

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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CHECKED: ALR	CHECKED: MLT	

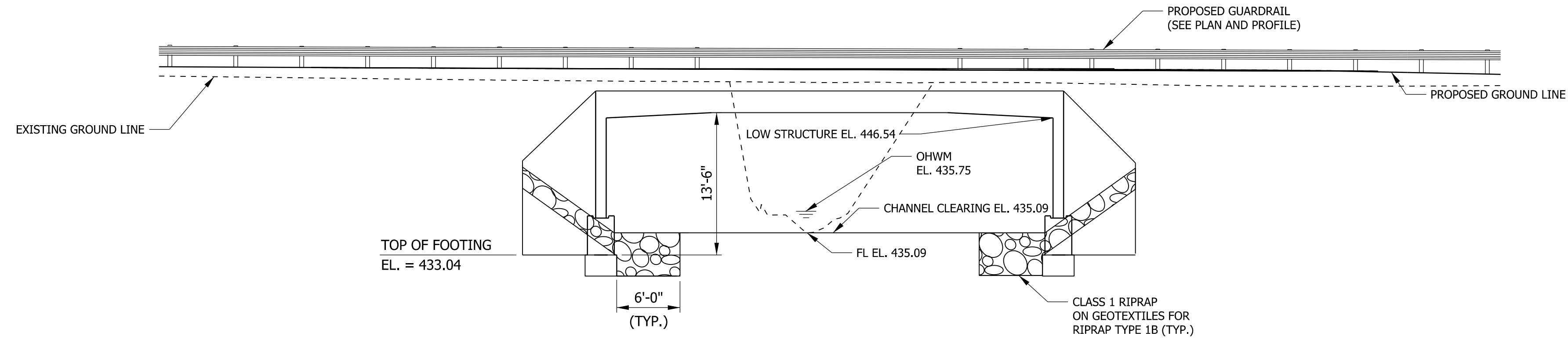
INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT

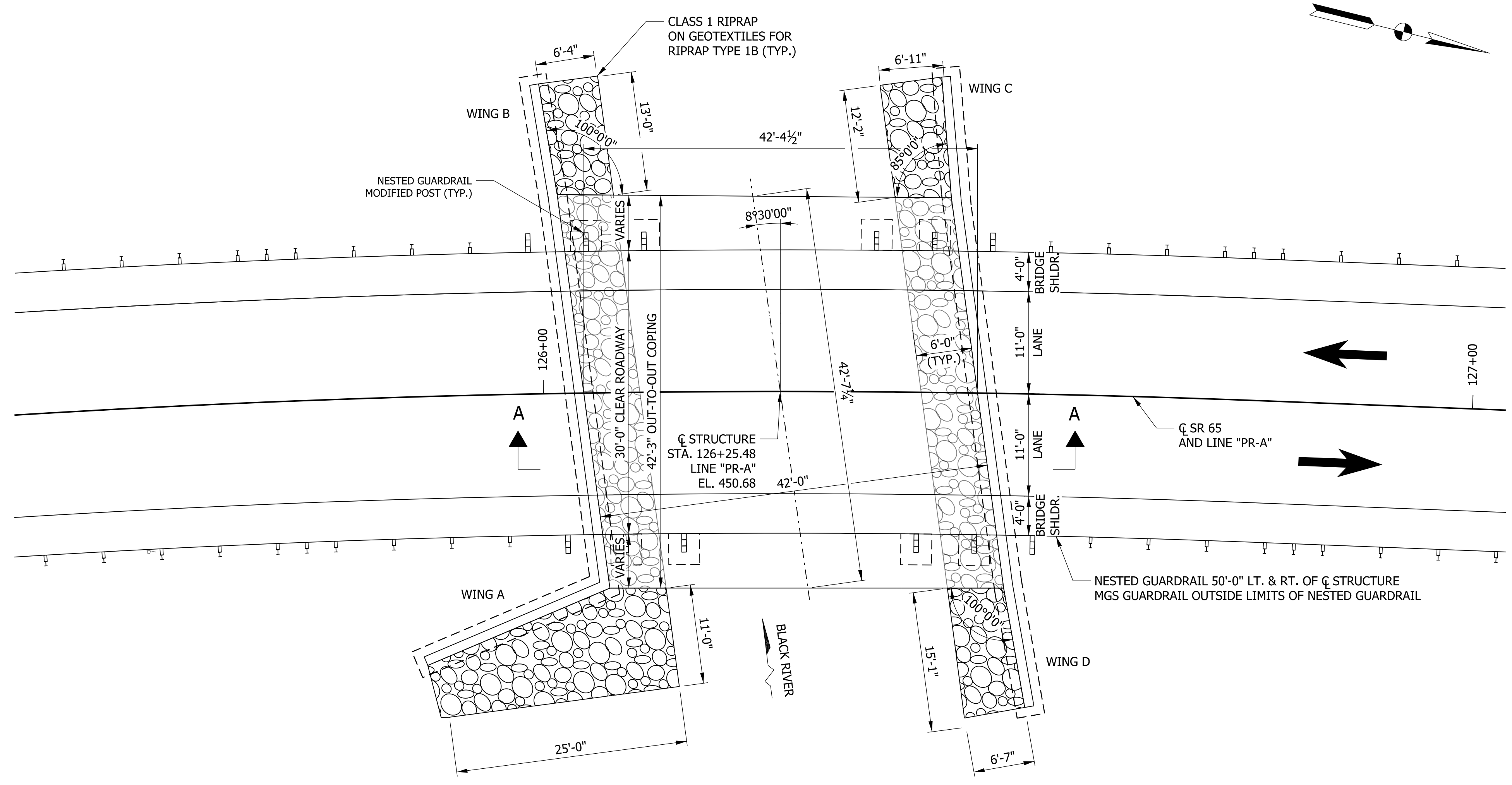
HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	065-26-10331
VERTICAL SCALE	DESIGNATION
3/8" = 1'-0"	1700165
SURVEY BOOK	SHEETS
ELECTRONIC	11 of 19
CONTRACT	PROJECT
B-40567	1700165

STRUCTURE TO BE BUILT ON A 410' VERTICAL CURVE

PVI STA. 127+10
 EL. 448.59
 V.C. = 410'
 +0.46% ∇ -0.97%



ELEVATION



PLAN

GENERAL NOTES

SURFACE SEAL SHALL BE APPLIED TO ALL EXPOSED FACES OF HEADWALLS, WINGWALLS, AND FACE OF STRUCTURE SECTIONS. MODIFIED SURFACE SEAL MAY BE APPLIED TO PRECAST CONCRETE MEMBERS IN THE SHOP OR IN THE FIELD

A THREE-SIDED ARCH-TOPPED OR TRUE-ARCH STRUCTURE WILL NOT BE PERMITTED AT THIS LOCATION.

FOOTING DIMENSIONS SHALL BE DETERMINED BY THE PRECAST UNIT MANUFACTURER.

ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (FT.), EXCEPT AS NOTED.

NESTED GUARDRAIL TO BE INSTALLED PER E 601-NWGA-01.

RIPRAP SCOUR PROTECTION PER 723-CCSP-04.

WATERPROOFING MEMBRANE SHALL BE APPLIED TO THE BELL OR SPIGOT SECTION OF THE STRUCTURE AND PRIOR TO JOINING SEGMENTS. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION.

DESIGN DATA

LIVE LOAD
 STRUCTURE SHALL BE DESIGNED FOR HL-93 LOADING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017 AND ITS SUBSEQUENT INTERIMS.

DEAD LOAD
 DESIGN FOR ACTUAL WEIGHT PLUS 35 PSF FOR FUTURE WEARING SURFACE.

SEISMIC DESIGN DATA

SEISMIC PERFORMANCE ZONE = 2
 ACCELERATION COEFFICIENT = 0.258
 SEISMIC SOIL PROFILE TYPE = D

DESIGN STRENGTHS

CONCRETE
 STRUCTURE SECTIONS $f_c = 5,000$ psi
 WINGWALLS, HEADWALLS, AND SPANDREL WALLS $f_c = 4,000$ psi

REINFORCING STEEL
 GRADE 60 $f_y = 60,000$ psi

PRECAST REINFORCED CONCRETE
 THREE-SIDED STRUCTURE
 42'-0" SPAN x 13'-6" RISE
 SKEW: 08°30'00" LT.
 30'-0" CLEAR ROADWAY
 SR 65 OVER BLACK RIVER
 GIBSON COUNTY

nrls
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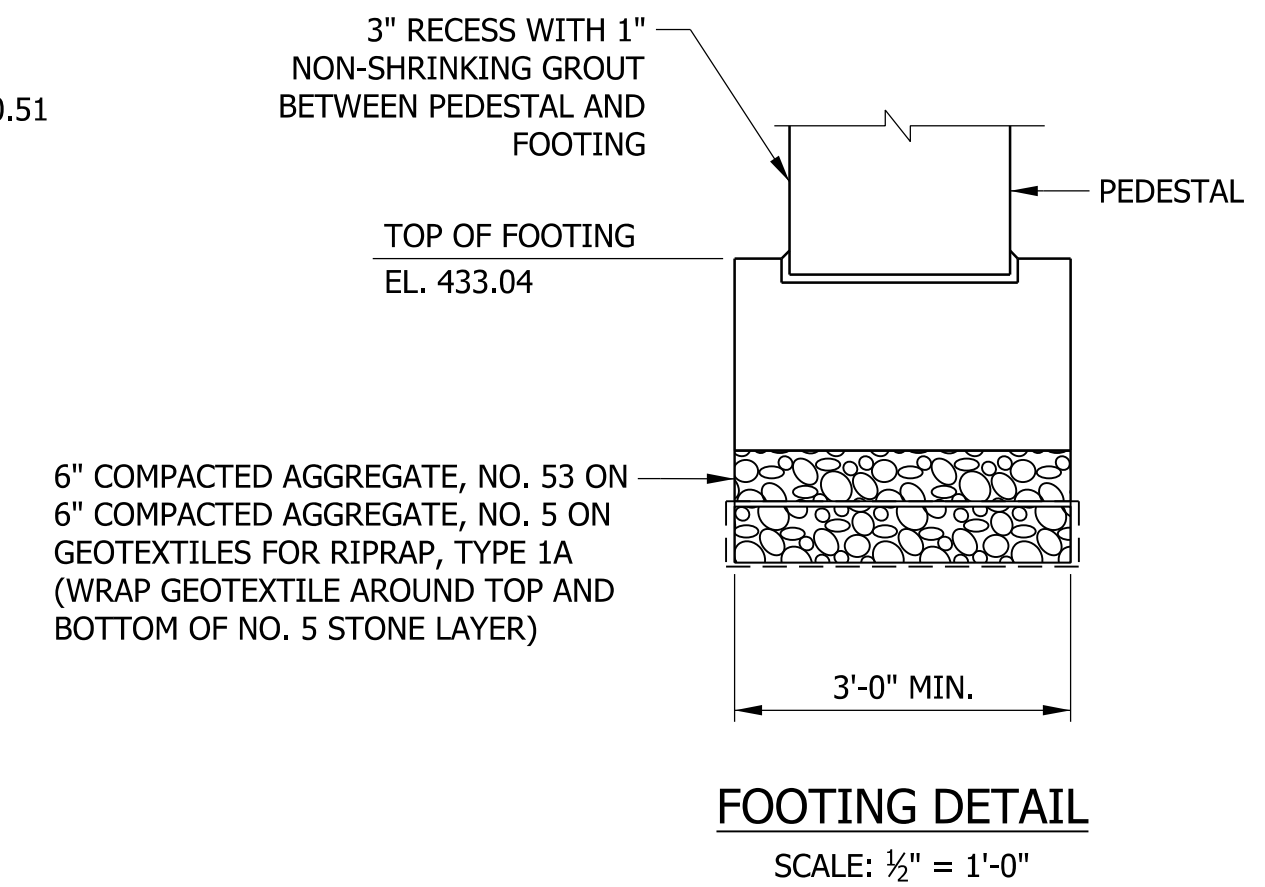
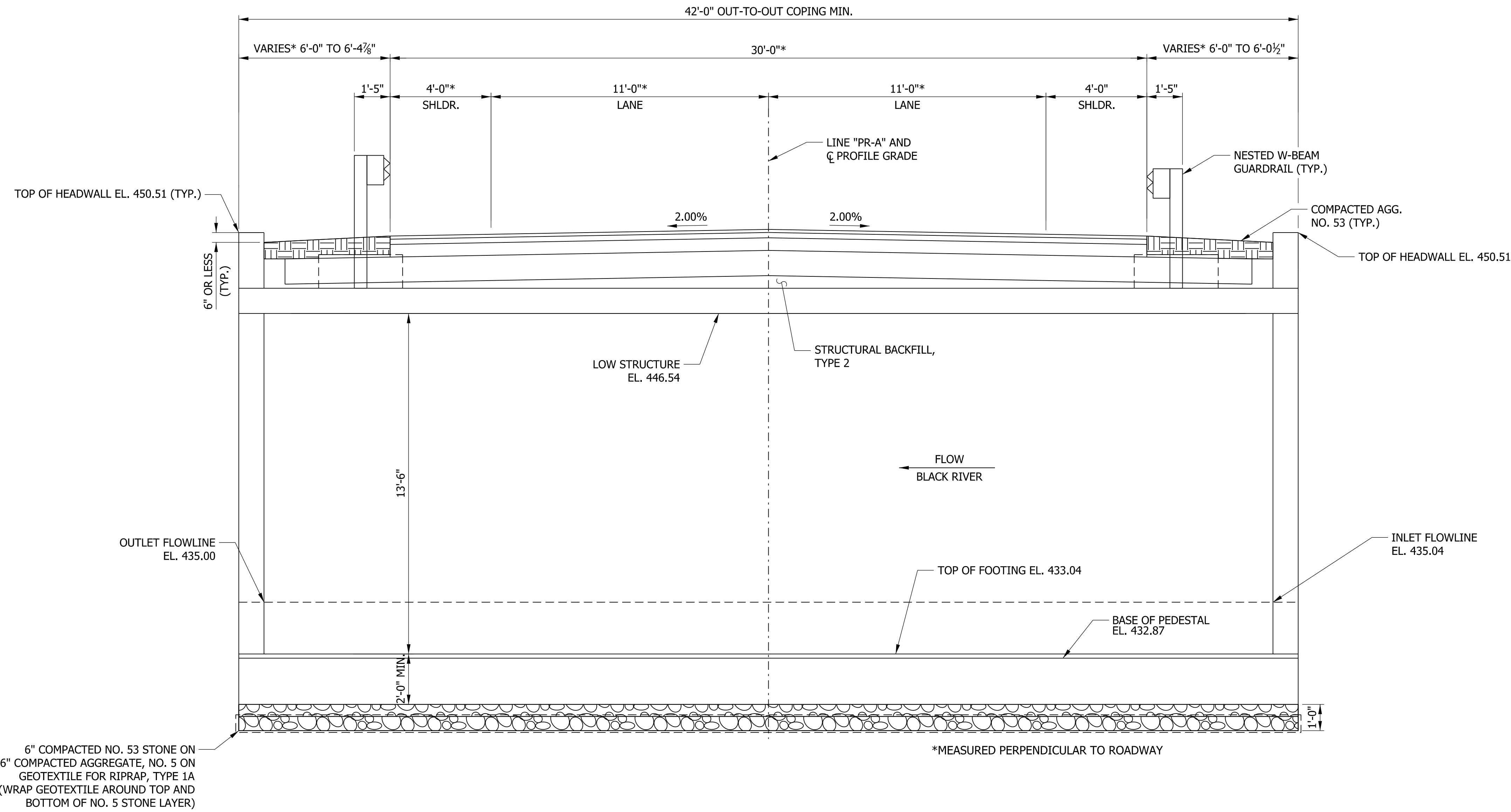
DRAFT
 NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: EAH	DRAWN: EAH	
CHECKED: ALR	CHECKED: MLT	

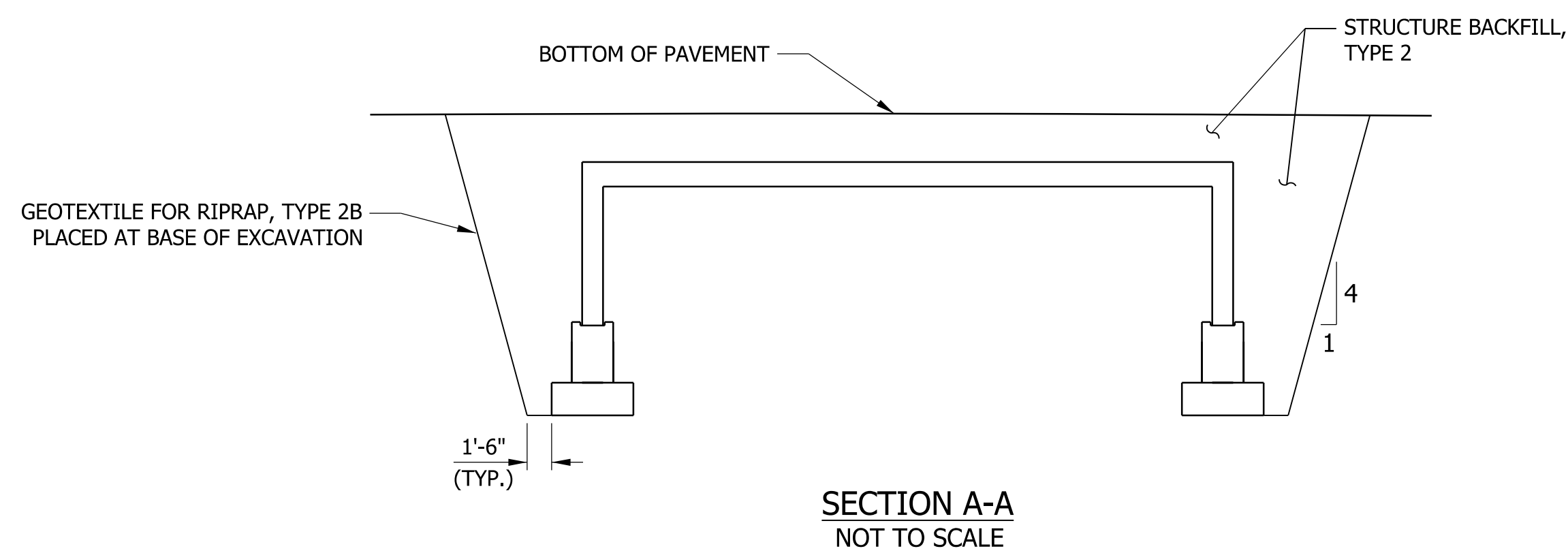
INDIANA
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE 3/8" = 1'-0"	BRIDGE FILE 065-26-10331
VERTICAL SCALE 3/8" = 1'-0"	DESIGNATION 1700165
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 19
CONTRACT R-40567	PROJECT 1700165



TYPICAL SECTION
(LOOKING AHEAD STATION)
SCALE: 3/8" = 1'-0"



PRECAST REINFORCED CONCRETE
THREE-SIDED STRUCTURE
42'-0" SPAN x 13'-6" RISE
SKEW: 8°30'00" LT.
30'-0" CLEAR ROADWAY
SR 65 OVER BLACK RIVER
GIBSON COUNTY

nkleess
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 model: Typical sections - proposed
 file: \\indiv001\289\projects\70946_indiv-v_2018_bridges\1080-sr65_black_des\700165\cadd\br1\cadd\700165-br-pm01.dgn

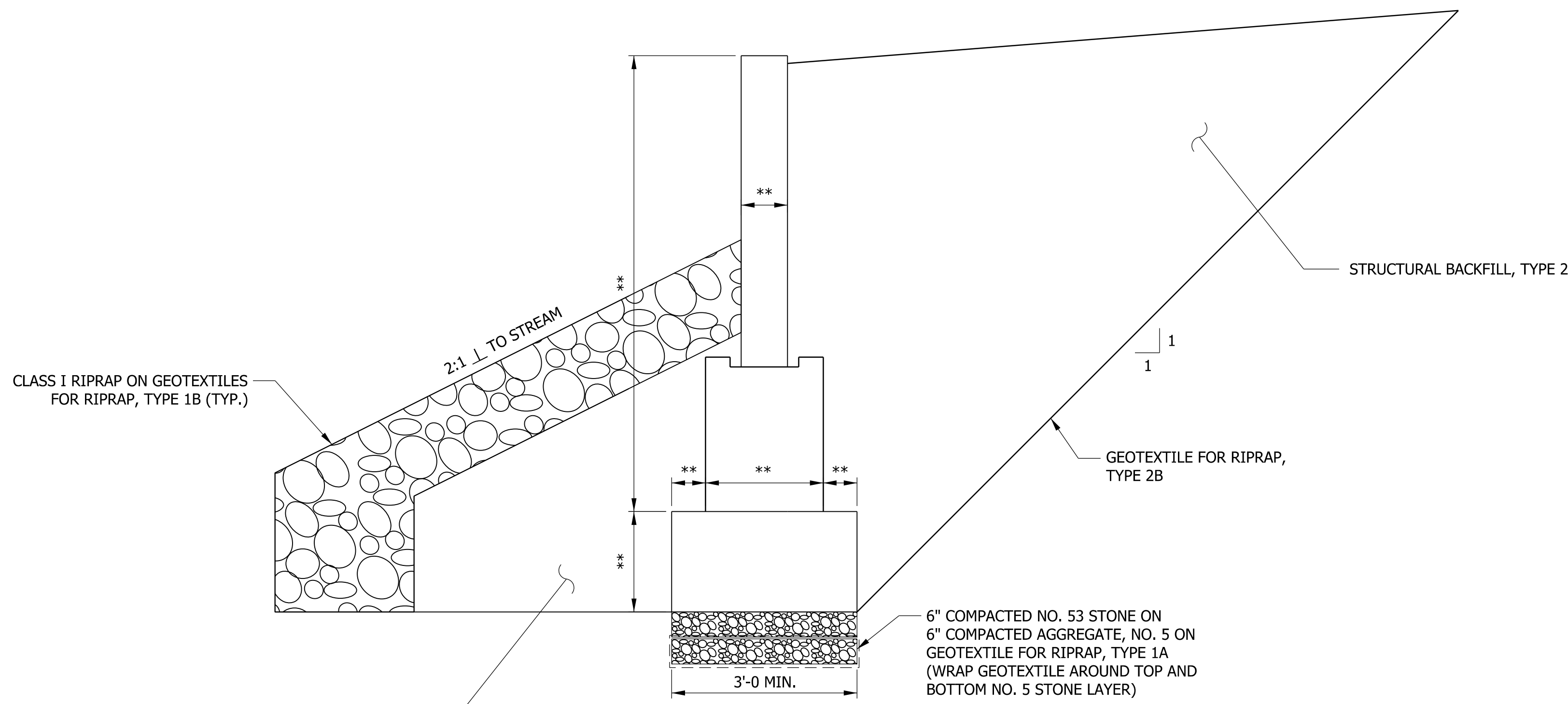
DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: EAH	DRAWN: EAH	
CHECKED: ALR	CHECKED: MLT	

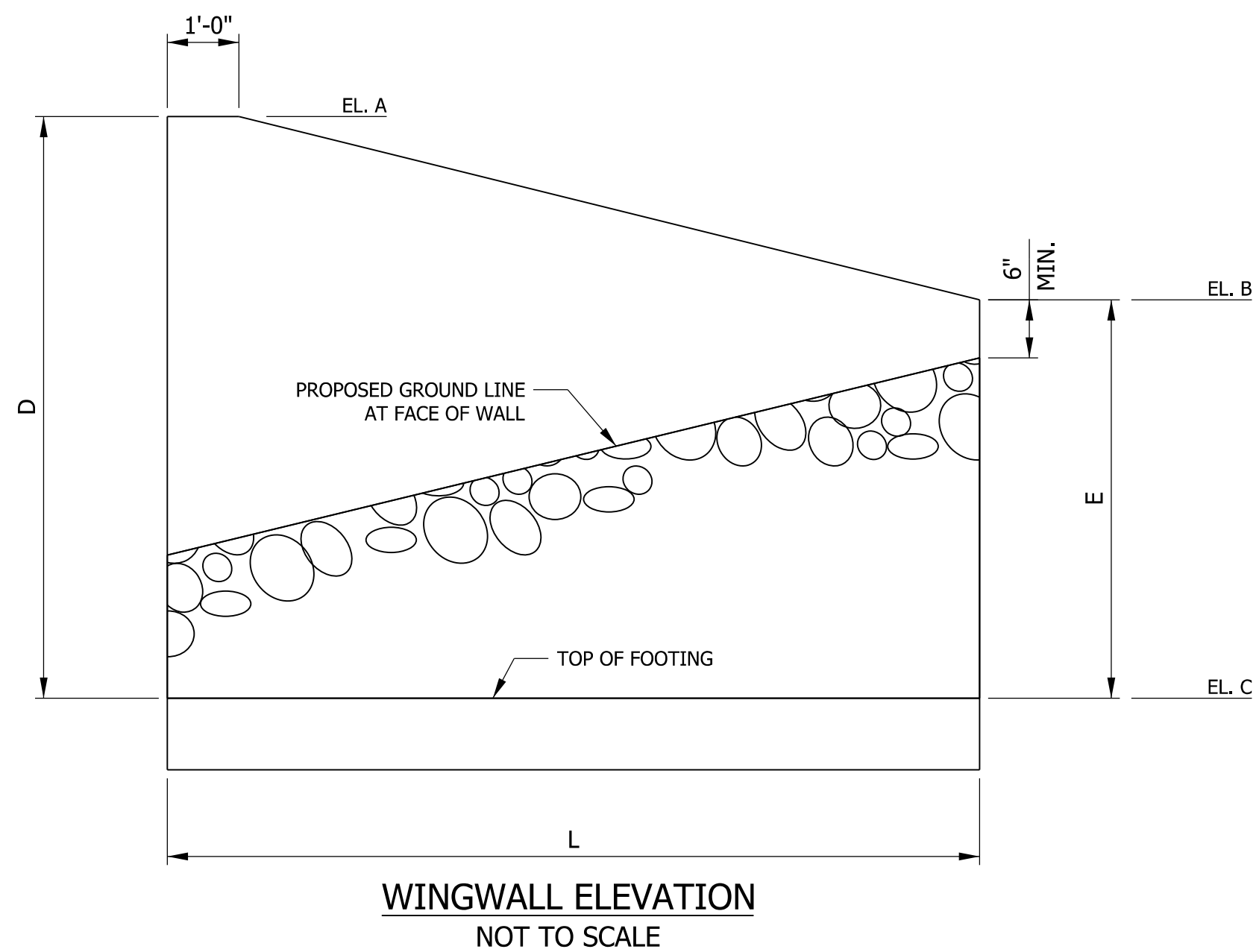
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	065-26-10331
VERTICAL SCALE	DESIGNATION
AS SHOWN	1700165
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 19
CONTRACT	PROJECT
R-40567	1700165



** INDICATED DIMENSIONS TO BE DETERMINED BY PRECAST UNIT MANUFACTURER



WINGWALL TABLE					
WING	A	B	C	D	
EL. A	450.46	450.46	450.31	450.34	
EL. B	446.35	444.70	442.70	443.90	
EL. C	433.04	433.04	433.04	433.04	
D (FT)	17.42	17.42	17.27	17.30	
E (FT)	13.31	11.66	9.66	10.86	
L (FT)	21.00	12.00	13.00	14.00	TOTAL
AREA (SFT)	325	178	179	201	883

SOIL PARAMETERS	
PARAMETER	
FACTORED BEARING RESISTANCE (PSF)	2000
RESISTANCE FACTOR	0.45
NOMINAL BEARING RESISTANCE (PSF)	4500
ANGLE OF FRICTION BETWEEN WINGWALL FOOTING AND FOUNDATION SOIL	20°
ANGLE OF INTERNAL FRICTION OF BACKFILL	--
NOMINAL COHESION OF FOUNDATION SOIL, C (PSF)	800
NOMINAL ADHESION BETWEEN FOUNDATION SOIL AND CONCRETE, Ca (PSF)	480
TOTAL UNIT WEIGHT OF BACKFILL MATERIAL (PCF)	125

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 model: Structure details
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DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ EDK _____	DRAWN: _____ EDK _____	
CHECKED: _____ NIK _____	CHECKED: _____ NIK _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

STRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	065-26-10331
VERTICAL SCALE	DESIGNATION
AS SHOWN	1700165
SURVEY BOOK	SHEETS
ELECTRONIC	14 of 19
CONTRACT	PROJECT
R-40567	1700165