

DESIGNATION	
CONTRACT	BRIDGE FILE 20-00193 B

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
ELKHART BR. 193 20-00193 B	ADJACENT PRESTRESSED CONCRETE BOX BEAM BRIDGE	SINGLE SPAN @ 48'-0" NO SKEW	STONY CREEK	STA. 42+00.00 LINE "PR-PR"

NBI 2000056

ELKHART COUNTY HIGHWAY DEPARTMENT

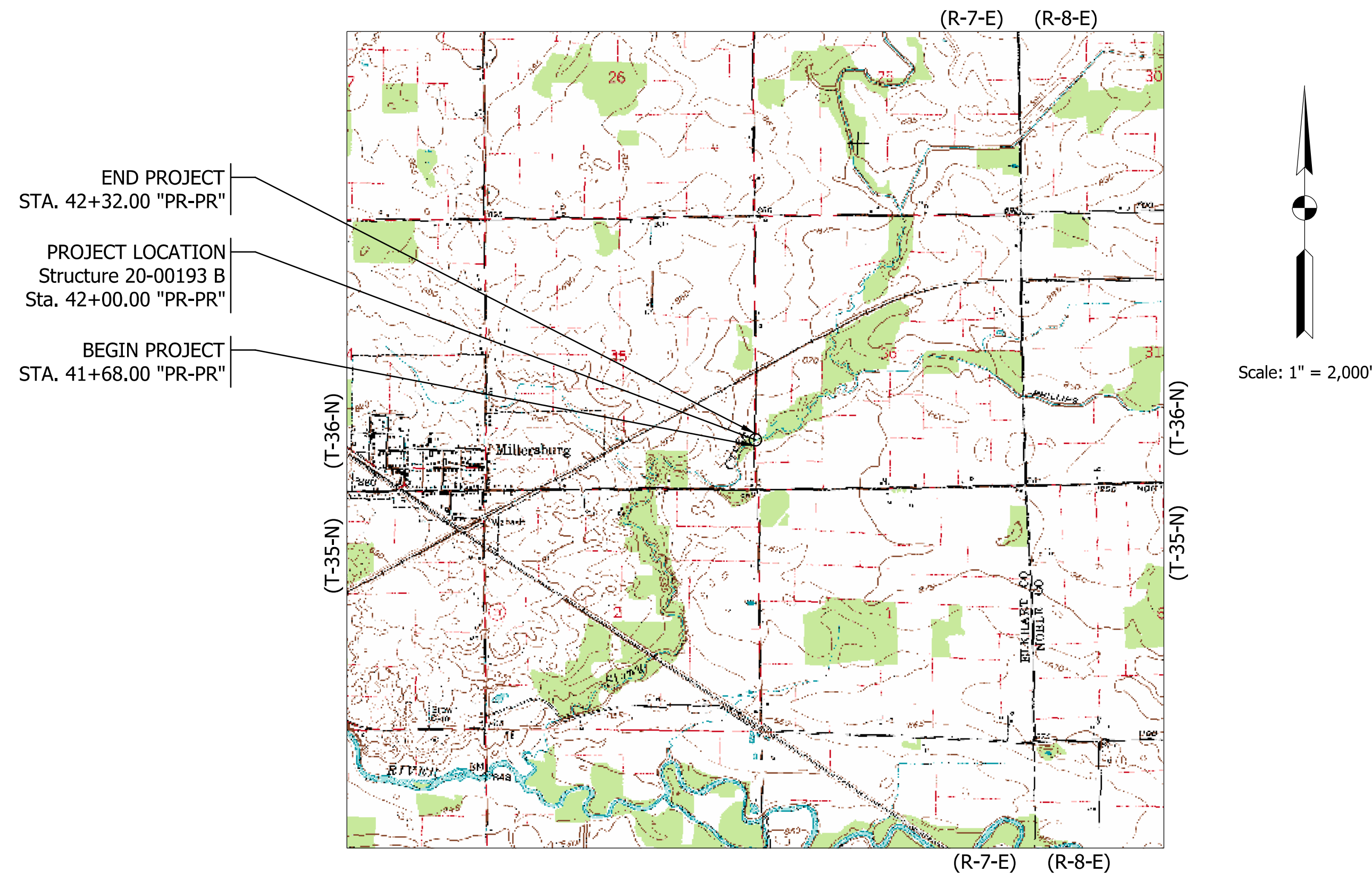


BRIDGE REHABILITATION PLANS

FOR SPANS OVER 20 FEET

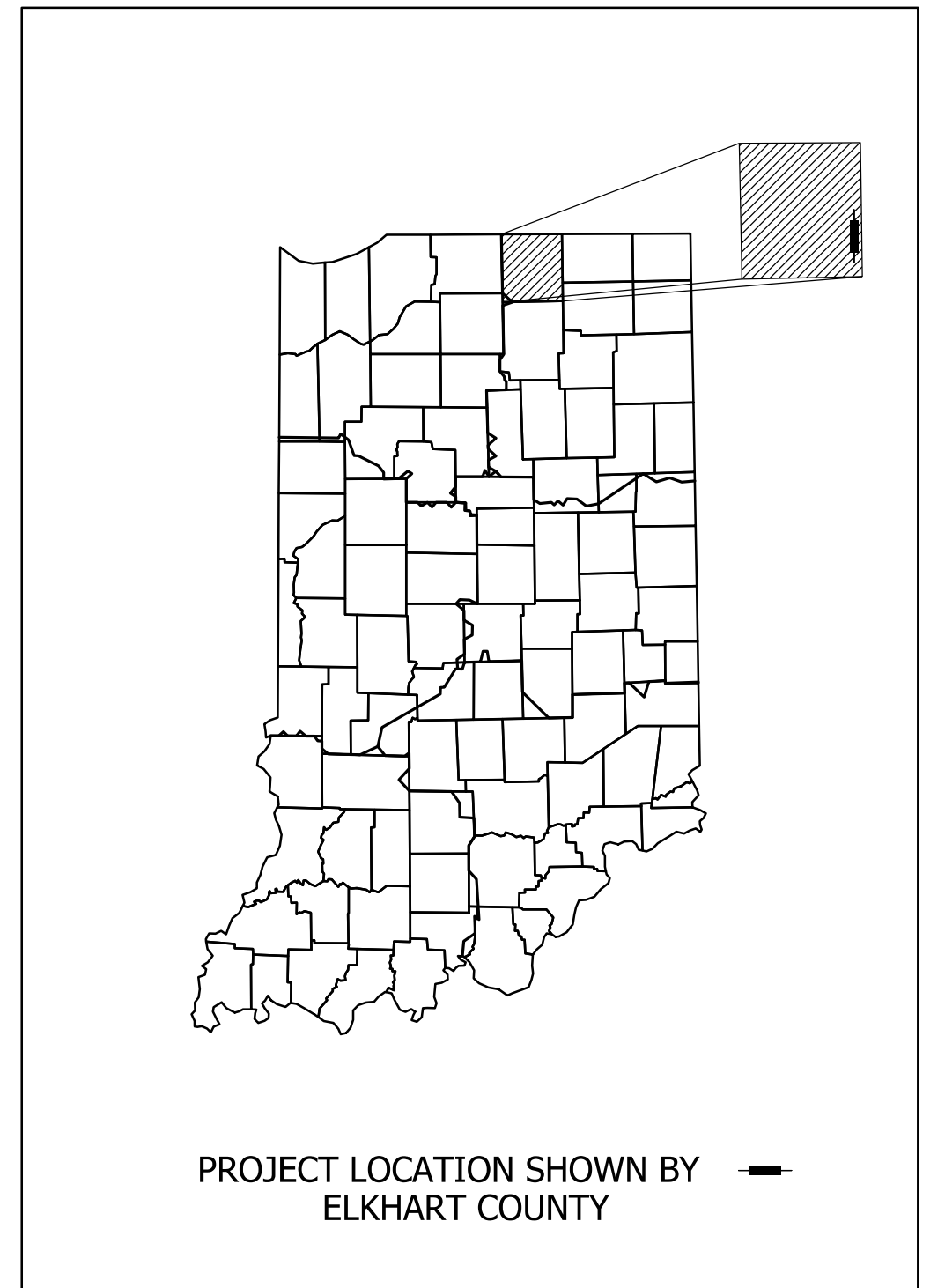
STRUCTURE 20-00193 B
C.R. 43 OVER STONY CREEK
CLINTON TOWNSHIP, ELKHART COUNTY, INDIANA

SUPERSTRUCTURE REPLACEMENT ON C.R. 43 OVER STONY CREEK
LOCATED 0.20 MILES NORTH OF CR 42 IN
SECTIONS 35 & 36, R-7-E, T-36-N, CLINTON TOWNSHIP, ELKHART COUNTY, INDIANA



TRAFFIC DATA		
A.A.D.T. (2025)		364 V.P.D.
A.A.D.T. (2045)		444 V.P.D.
D.H.V (2045)		53 V.P.H.
DIRECTIONAL DISTRIBUTION		48 %
TRUCKS		24 % A.A.D.T. 24 % D.H.V.

DESIGN DATA	
DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	LOCAL ROAD
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 41° 31' 33" N LONGITUDE: 85° 40' 27" W

BRIDGE LENGTH:	0.009	MI.
ROADWAY LENGTH:	0.003	MI.
TOTAL LENGTH:	0.012	MI.
MAX. GRADE:	0.866	%

HUC: 040500011801



9102 North Meridian Street, Suite 200, Indianapolis, IN 46260
Phone: (317) 566-0629

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED
2026 TO BE USED WITH THESE PLANS

ELKHART COUNTY BOARD OF COMMISSIONERS

APPROVED BY *Bradley D. Rogers* DATE 5/26/2026

BRADLEY D. ROGERS, PRESIDENT

Suzanne M. Weirick
SUZANNE M. WEIRICK, VICE-PRESIDENT

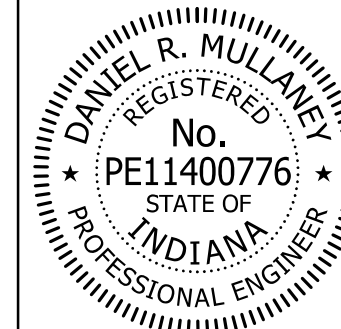
Bob Barnes
BOB BARNES, MEMBER

RECOMMEND FOR APPROVAL DATE 05/26/2026

Timothy W. Jackson
TIMOTHY W. JACKSON, P.E., ELKHART COUNTY HIGHWAY ERC

ATTESTED BY DATE 5/26/2026

Tiara Jackson
TIARA JACKSON, AUDITOR

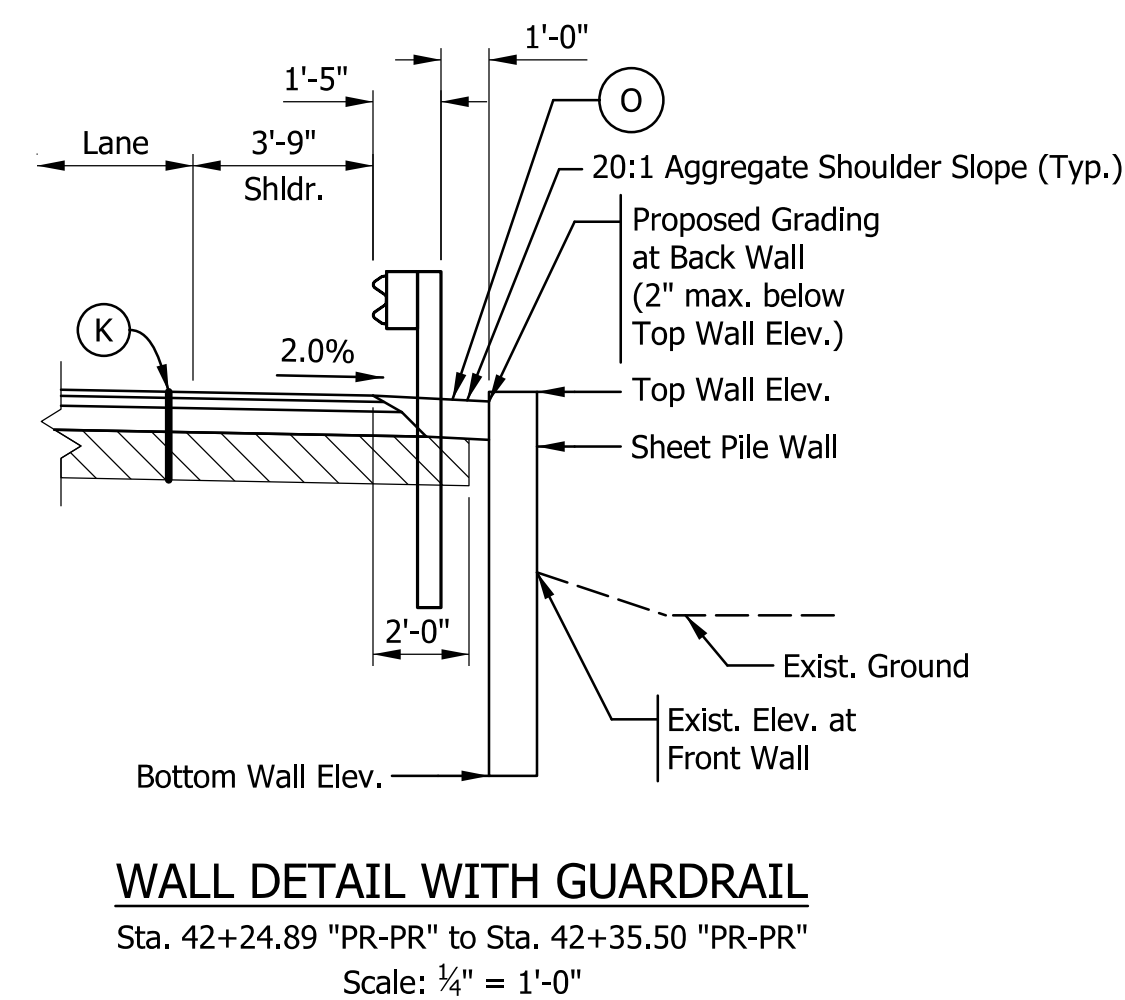
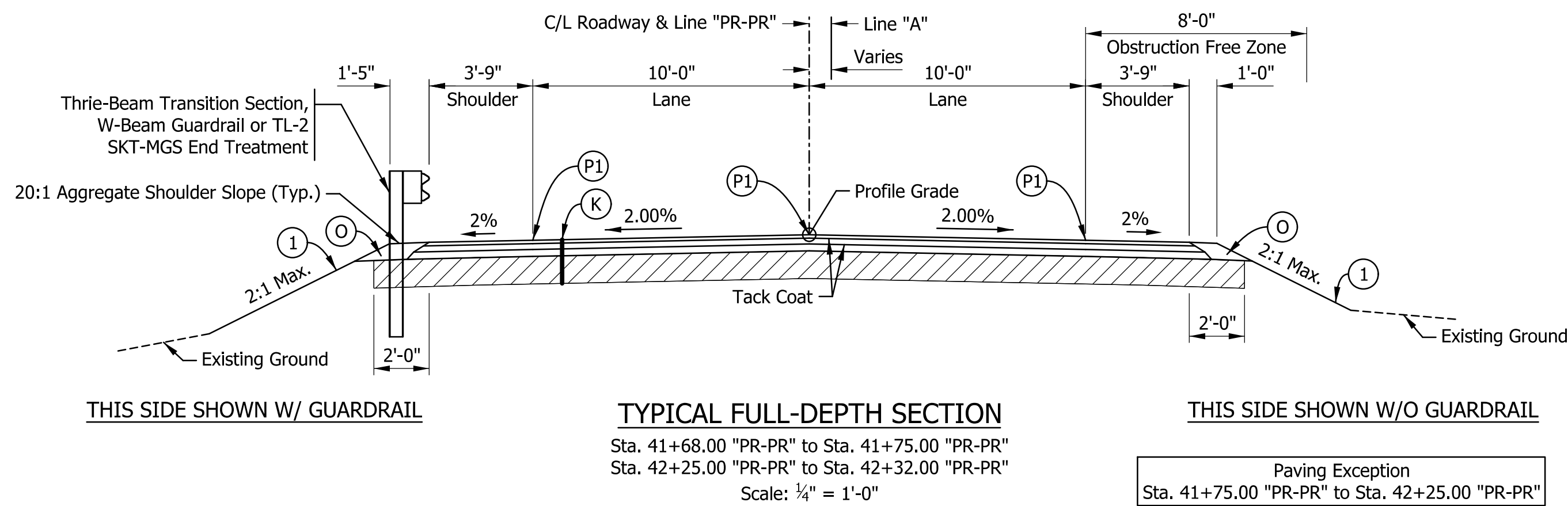
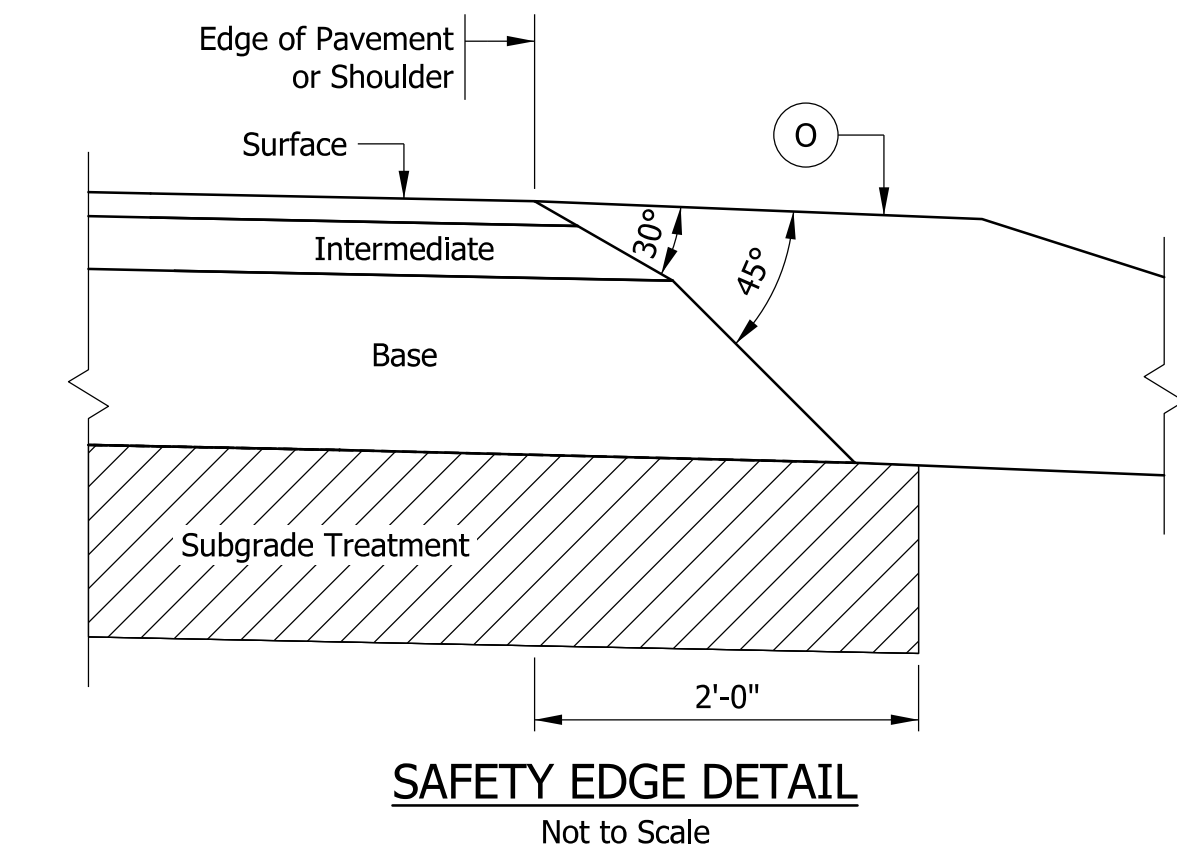
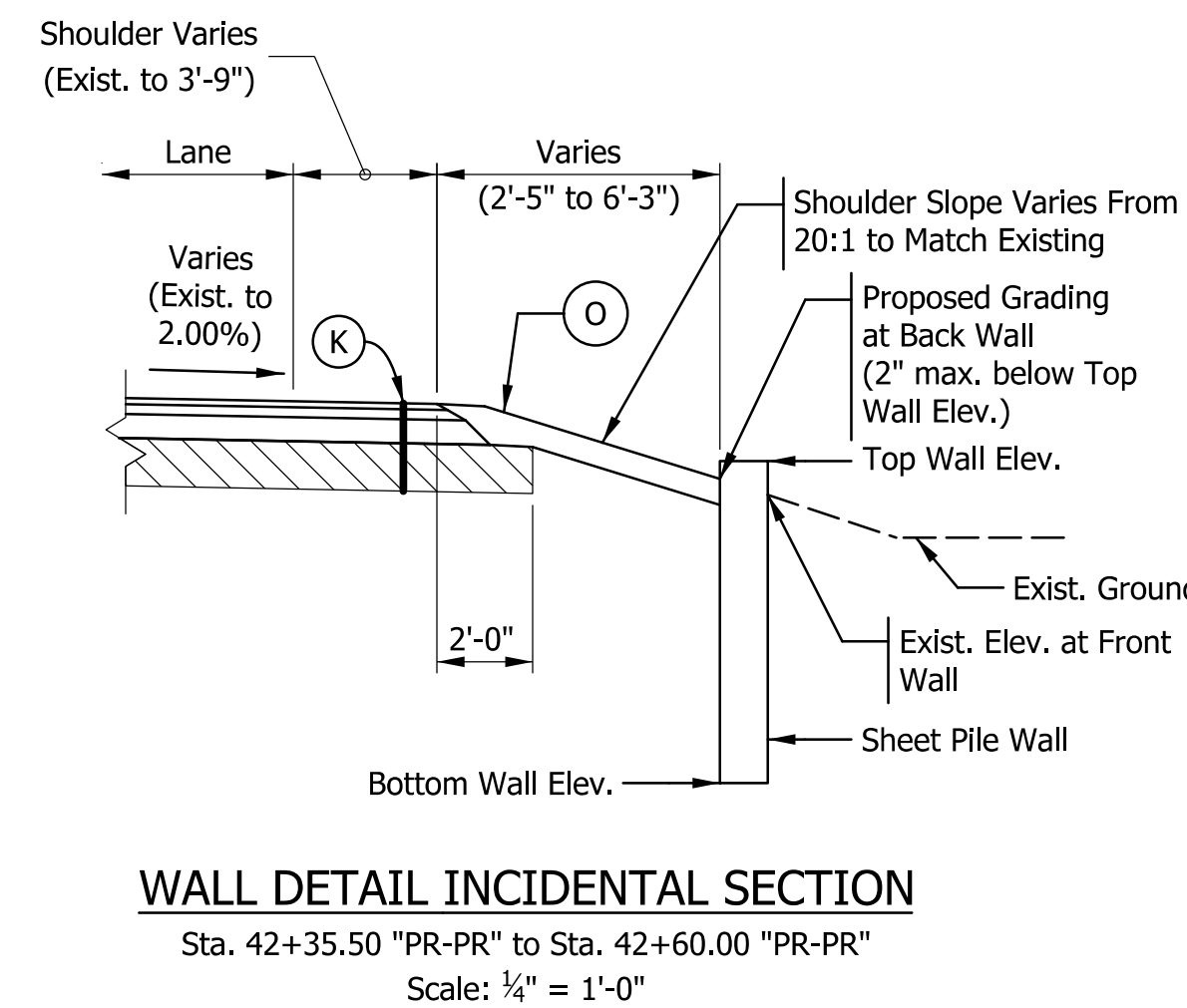
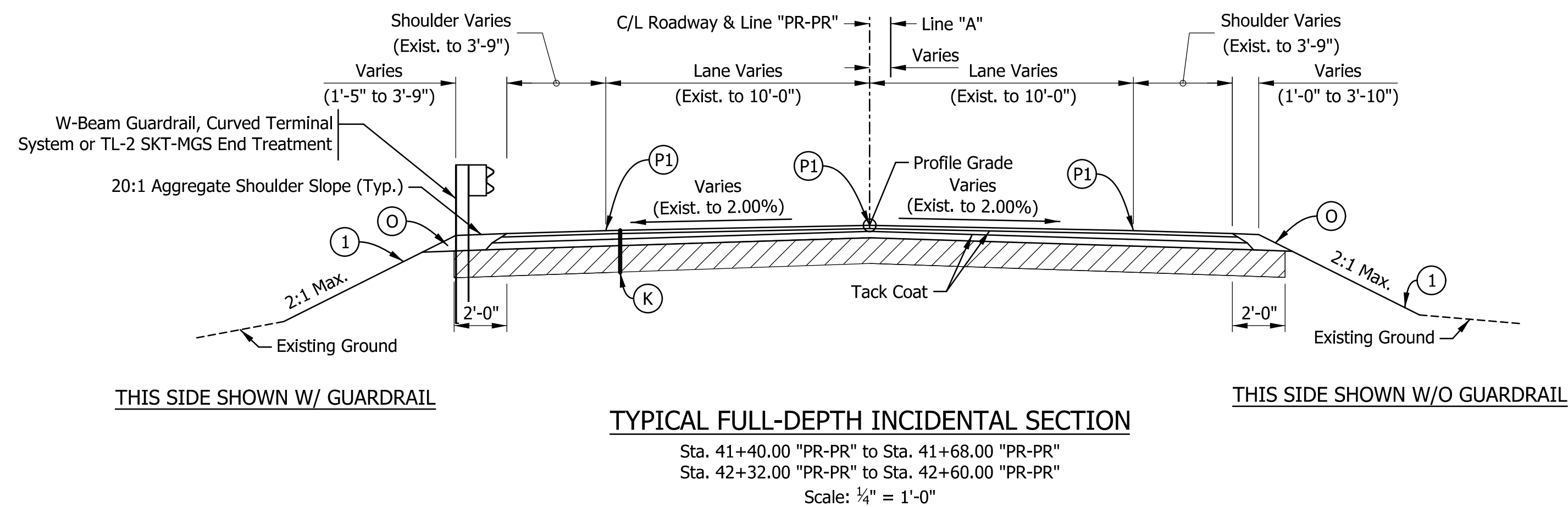
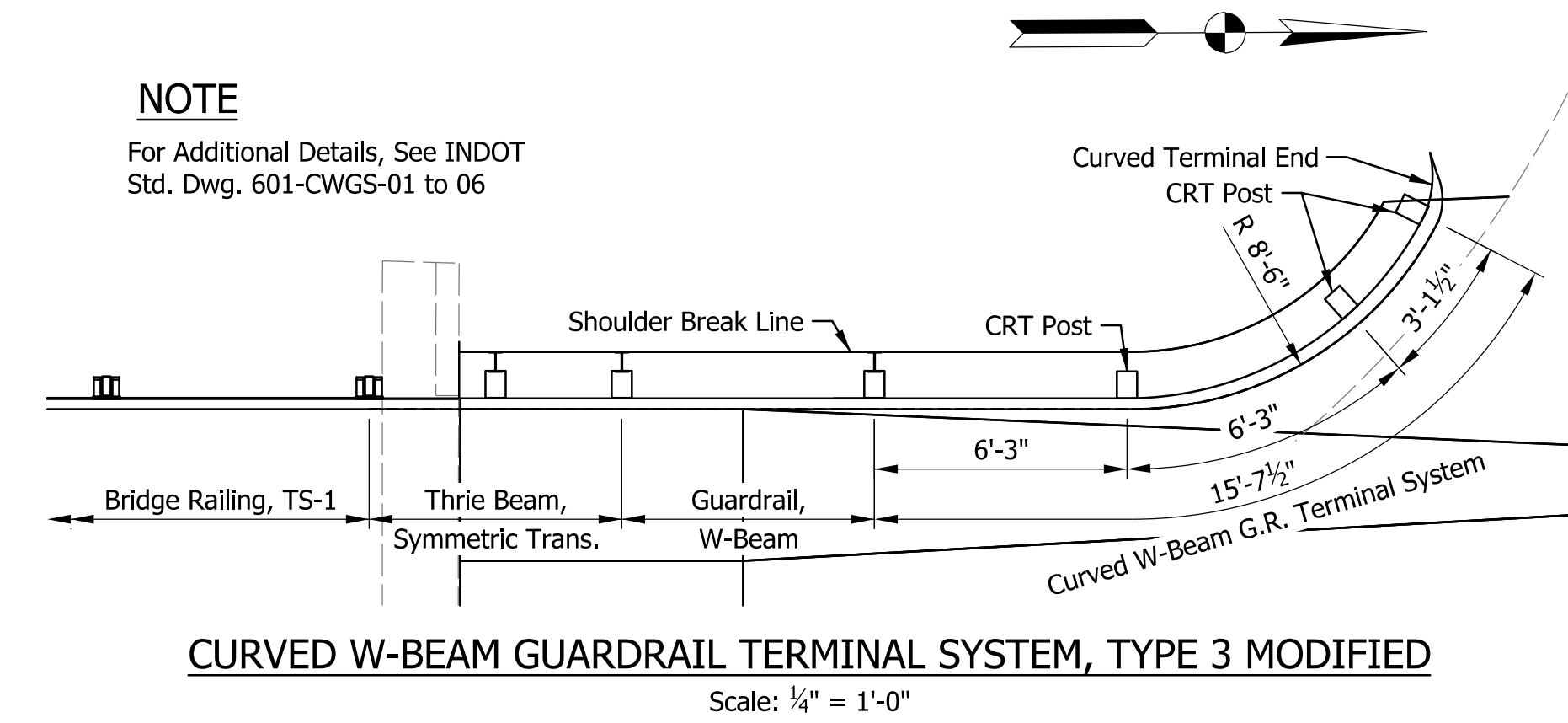
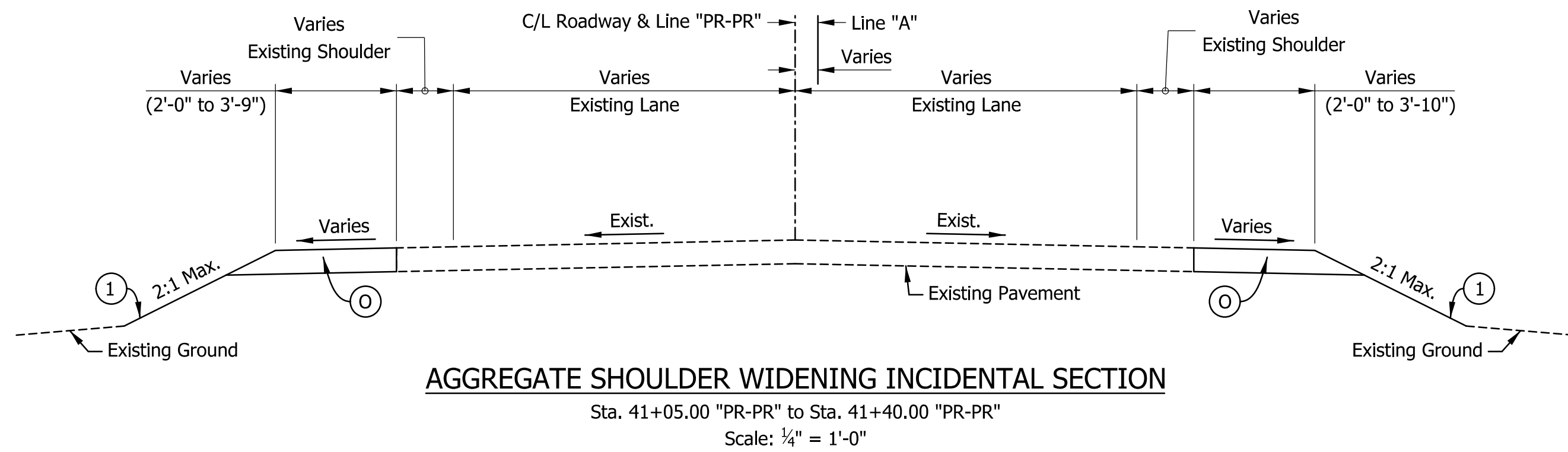


PLANS PREPARED BY: SJCA Inc. (317) 566-0629

CERTIFIED BY: *Dan Mullany* June 2, 2026

BRIDGE FILE
20-00193 B
DESIGNATION

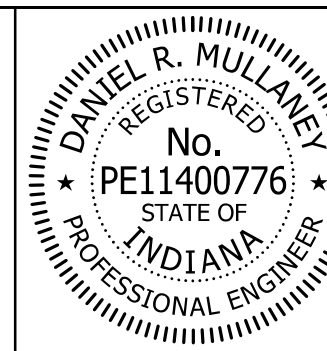
SHEETS
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CONTRACT



LEGEND

- (K) 165 lbs/syd HMA Surface, Type B on 275 lbs/syd HMA Intermediate, Type B on 330 lbs/syd HMA Base, Type B on Subgrade Treatment, Type IC on Geotextile for Pavement, Type 2B
- (O) Variable-Depth Compacted Aggregate, No. 53 (7" Max.)
- (P1) Joint Adhesive required for Surface and Intermediate layers at longitudinal joints
- (1) Slope Treatment: Mulched Seeding 'R' for Slopes 3:1 or flatter. Erosion Control Blankets for Slopes steeper than 3:1. See Special Provisions
- Subgrade Treatment, Type IC

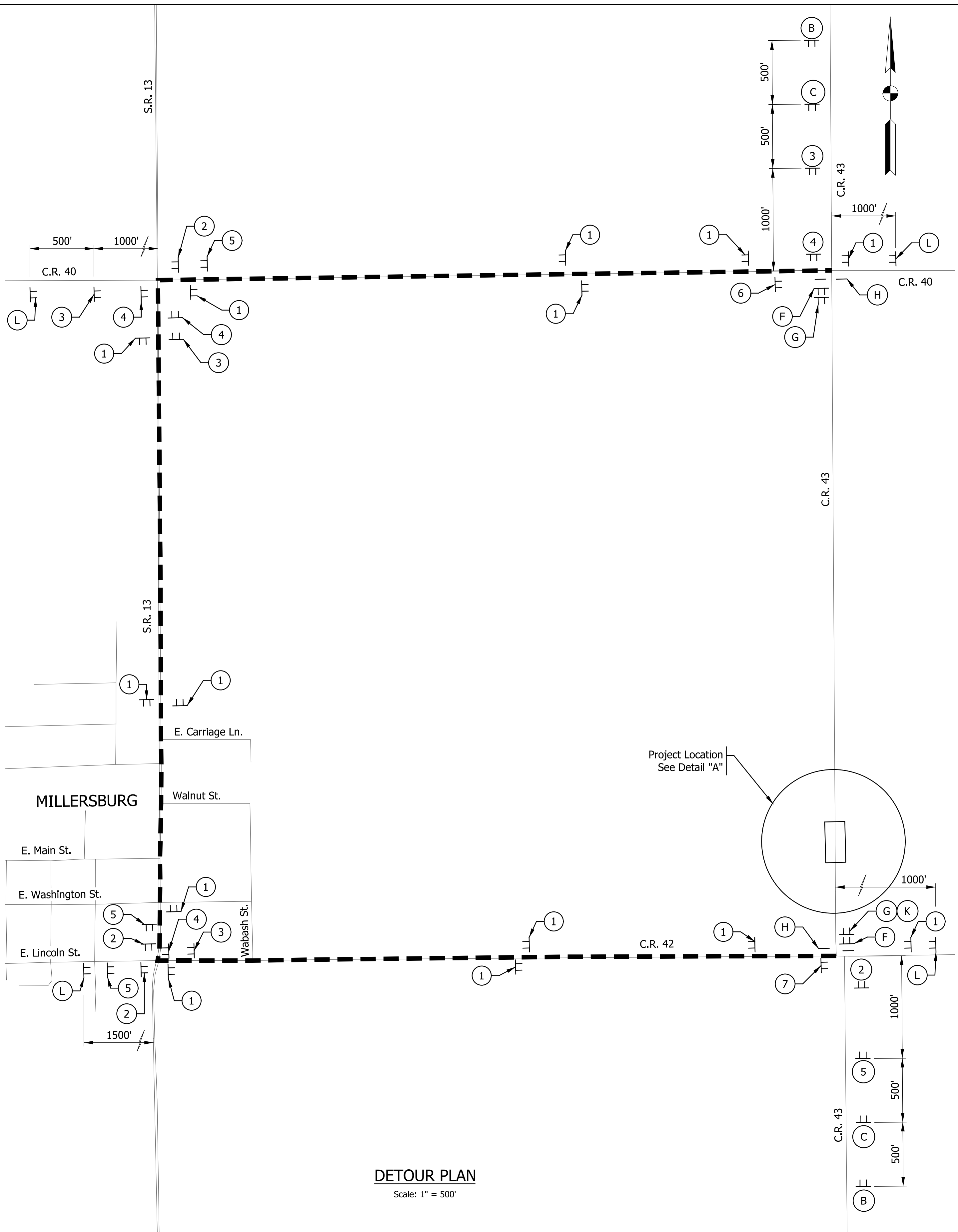
Plot 6/2/2026 11:21:34 AM



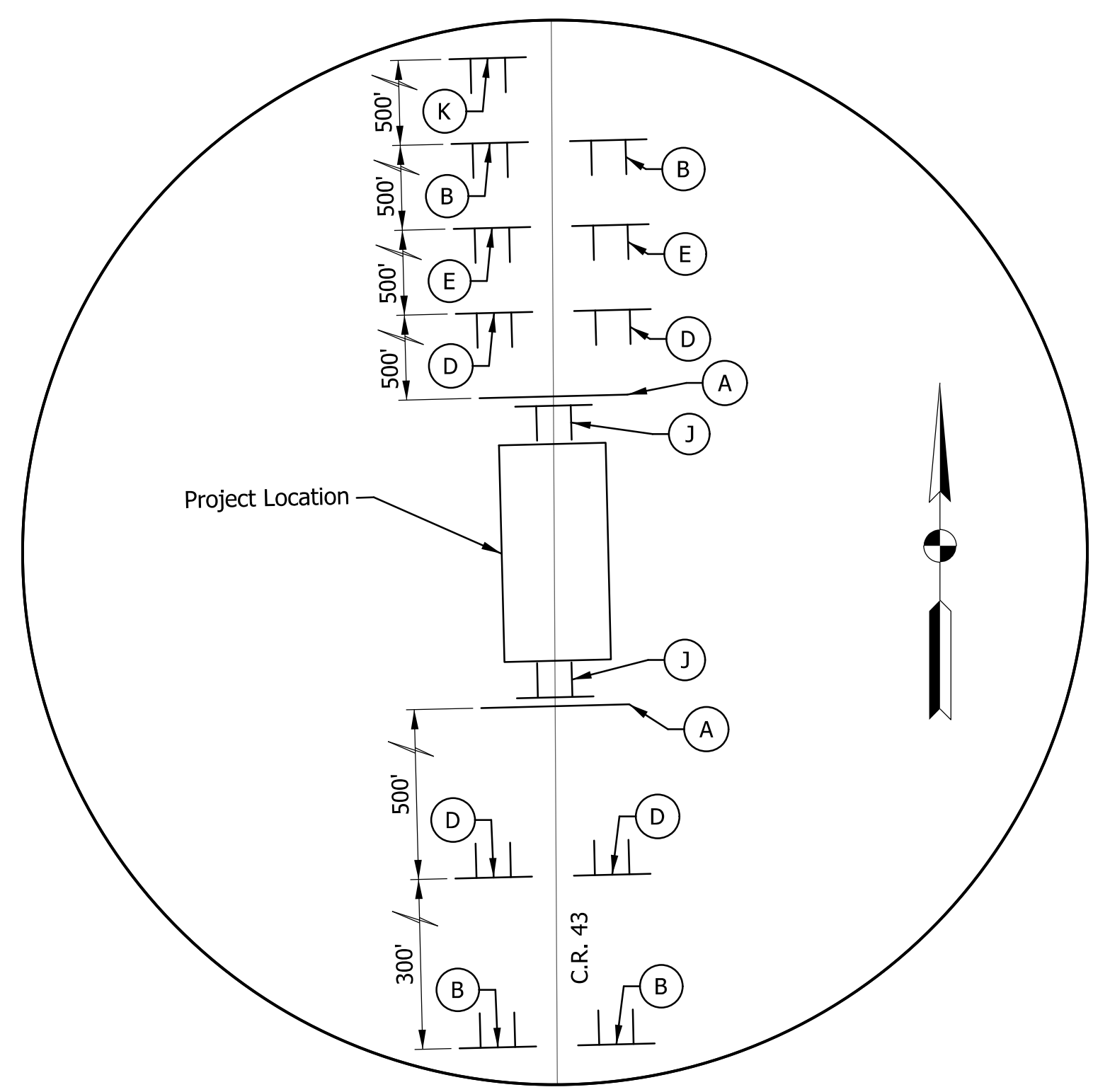
RECOMMENDED FOR APPROVAL	<i>Dan Mullany</i>	6/2/2026
	DESIGN ENGINEER	DATE
DESIGNED: MHF	DRAWN: MHF	
CHECKED: DRM	CHECKED: DRM	

ELKHART COUNTY HIGHWAY DEPARTMENT	
TYPICAL SECTIONS	

SCALE	BRIDGE FILE
1/4" = 1'-0"	20-00193 B
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DETOUR PLAN
Scale: 1" = 500'



DETAIL "A"
Scale: 1" = 200'

LEGEND

- (A) Type III-A Barricades - 24 Lft required
- (B) "ROAD CLOSED AHEAD" - XW20-3
- (C) "DETOUR AHEAD" - XW20-2
- (D) "Road Closed 500 ft." - XW20-3
- (E) "Road Closed 1000 ft." - XW20-3
- (F) Road Closure Sign Assembly with "ROAD CLOSED X MILES AHEAD LOCAL TRAFFIC ONLY" - R11-3
"DETOUR ARROW" - XM4-10 (L or R)
- (G) Road Closure Notice Sign - XG20-5
- (H) Type III-B Barricades - 24 Lft required
- (J) Road Closure Sign Assembly with "ROAD CLOSED" - R11-2
- (K) "WORKSITE PENALTY" - XW2-6
- (L) "NORTH" OR "SOUTH" - M3-1 or M3-3
"LOCAL ROAD" - M1-6
"DETOUR AHEAD" - XW20-2
- TT Construction Sign
- Detour Route

DETOUR ROUTE MARKER ASSEMBLY LEGEND

DETOUR NORTH/SOUTH	XM4-8 M3-1 or M3-3	DETOUR NORTH/SOUTH	XM4-8 M3-1 or M3-3	DETOUR NORTH/SOUTH	XM4-8 M3-1 or M3-3	DETOUR NORTH/SOUTH	XM4-8 M3-1 or M3-3
C.R. 43	M1-6	C.R. 43	M1-6	C.R. 43	M1-6	C.R. 43	M1-6
XRMA-1 (1)	M6-3	XRMA-2 (2)	M6-1	XRMA-3 (3)	M5-1(R)	XRMA-4 (4)	M6-1
DETOUR NORTH/SOUTH	XM4-8 M3-1 or M3-3	END DETOUR	XM4-8a	END DETOUR	XM4-8a		
C.R. 43	M1-6	C.R. 43	M1-6	C.R. 43	M1-6		
XRMA-5 (5)	M5-1(L)	XRMA-6 (6)	M5-1(L)	XRMA-7 (7)	M5-1(R)		

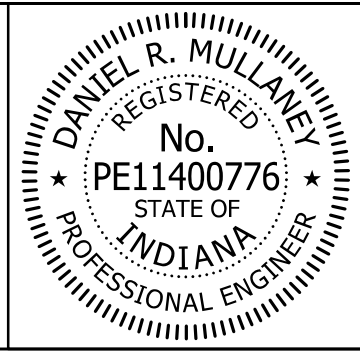
TWO ROAD CLOSURE NOTICE SIGNS XG20-5 REQUIRED (ONE AT EACH END) PLACED AT SITE A MINIMUM OF 14 DAYS PRIOR TO ROAD CLOSURE

MAINTENANCE OF TRAFFIC QUANTITIES				
ITEM	DESCRIPTION	SIZE (IN.)	TOTAL QTY	UNIT
Construction Sign, A			23	EACH
Road Closure Sign Assembly			4	EACH
Barricades, III-A			48	LFT
Barricades, III-B			48	LFT
Detour Route Marker Assembly			32	EACH

NOTES

1. Detour route marker assemblies shall be in accordance with standard drawing 801-TCDT-04.
2. Sign spacing shall be in compliance with current IMUTCD, INDOT standard drawings E801-TCDT-01, and INDOT standard specifications.
3. Type B construction warning lights shall be used with all signs located on barricades.
4. Type A construction warning lights shall be used on all other construction signs.
5. Access to property owners shall be provided during construction.

Plot: 6/2/2026 11:21:41 AM



RECOMMENDED FOR APPROVAL: *Dan Mullane* DESIGN ENGINEER 6/2/2026 DATE

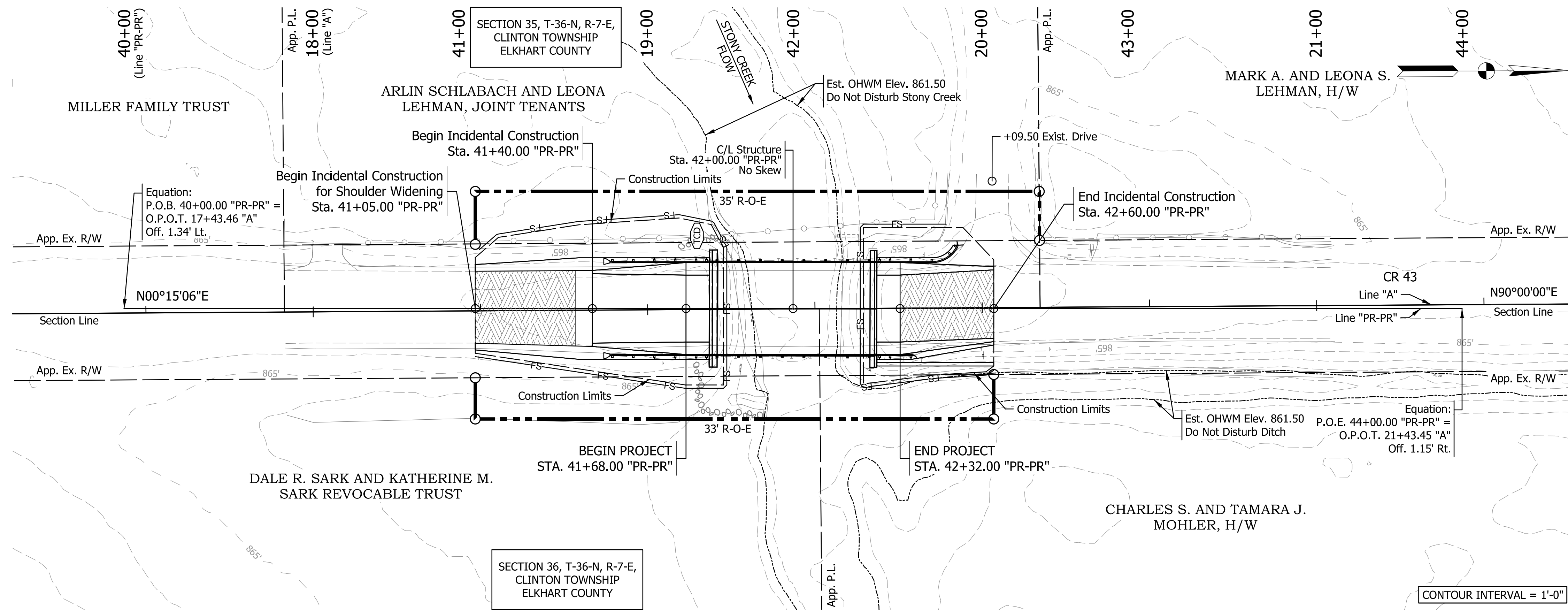
DESIGNED: DSR DRAWN: DSR

CHECKED: SV CHECKED: KCH

ELKHART COUNTY HIGHWAY DEPARTMENT

DETOUR ROUTE

SCALE AS NOTED	BRIDGE FILE 20-00193 B
	DESIGNATION
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PLAN
Scale: 1" = 20'

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY FILTER SOCK	TEMPORARY SEED MIXTURE	TEMPORARY NO. 2 STONE	SEDIMENT, REMOVE	MOBILIZATION & DEMOBILIZATION	TEMPORARY CHECK DAM, TRAVERSABLE, FILTER SOCK	TEMPORARY GEOTEXTILE	EROSION CONTROL BLANKET	REMARKS
	LEFT	SLOPE	RIGHT									
LINE "PR-PR"												
STA. 41+05.00 TO STA 41+80.19	X		X	200	4		0.9		10		54	
STA. 42+20.07 TO STA. 42+60.00	X		X	114	2		0.9				11	
UNDISTRIBUTED						100		1		235		
TOTALS				314	6	100	2	1	10	235	65	

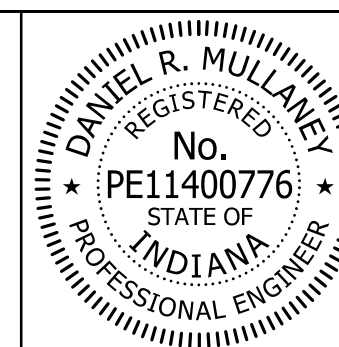
LEGEND

- Area for Equipment Staging, Concrete Washout, Fueling, and Portable Restroom
- Filter Sock
- Temporary Check Dam, Transversable, Filter Sock

NOTES

- Any areas in addition to those called out, left undisturbed for a period exceeding 7 days shall be required to have Temporary Seeding.
- All disturbed areas shall be permanently Seeded in accordance with INDOT Standard Specifications as soon as possible upon completion of work in that area.
- Upon completion of grading, permanent Erosion Control measures specified on road plans shall be implemented.
- Erosion Control Blankets will be used on all slopes steeper than 3:1.
- Refer to INDOT Standard Drawings 205-TECD for Erosion Control measures.
- Contractor shall stay within the limits of the Filter Sock.

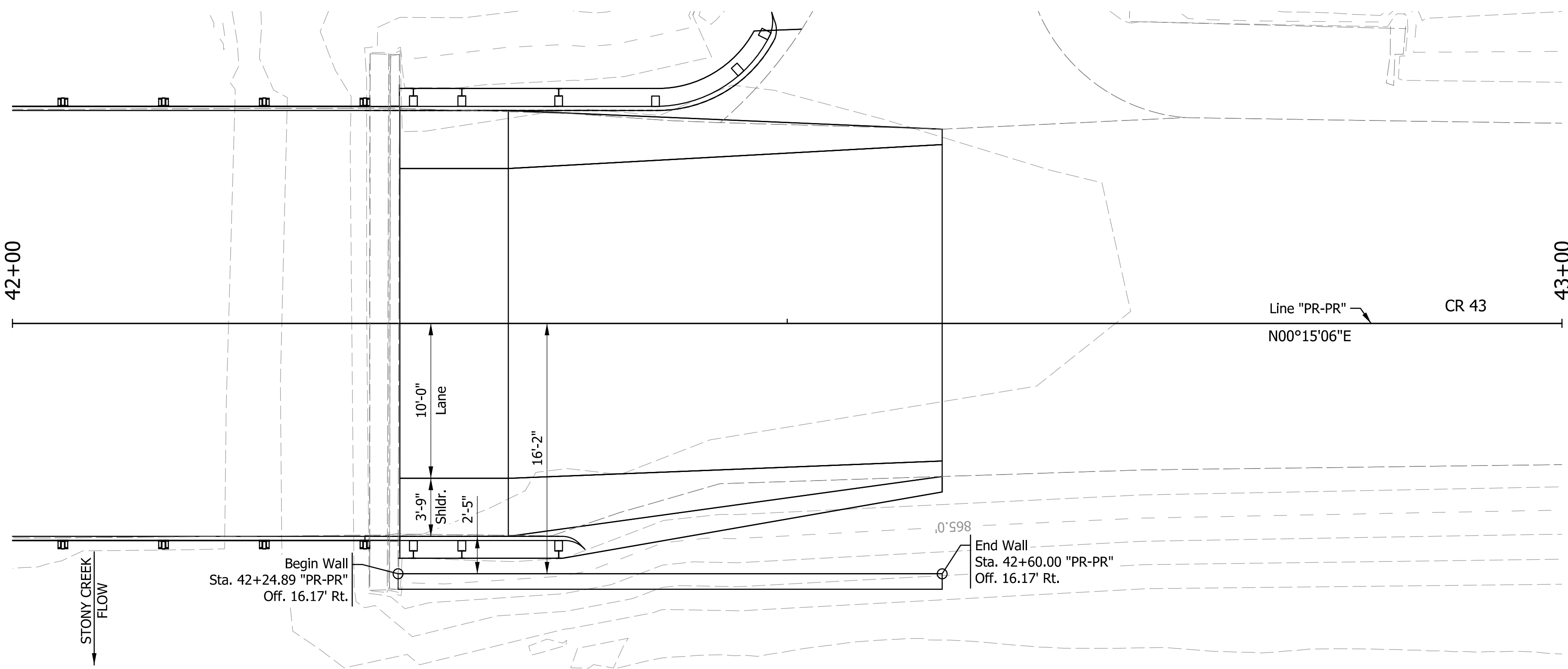
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CHECKED: SC	CHECKED: SC	

ELKHART COUNTY HIGHWAY DEPARTMENT	
EROSION CONTROL	

SCALE	BRIDGE FILE
AS NOTED	20-00193 B
	DESIGNATION
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SHEET PILE WALL - PLAN

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

SEQUENCE OF CONSTRUCTION:

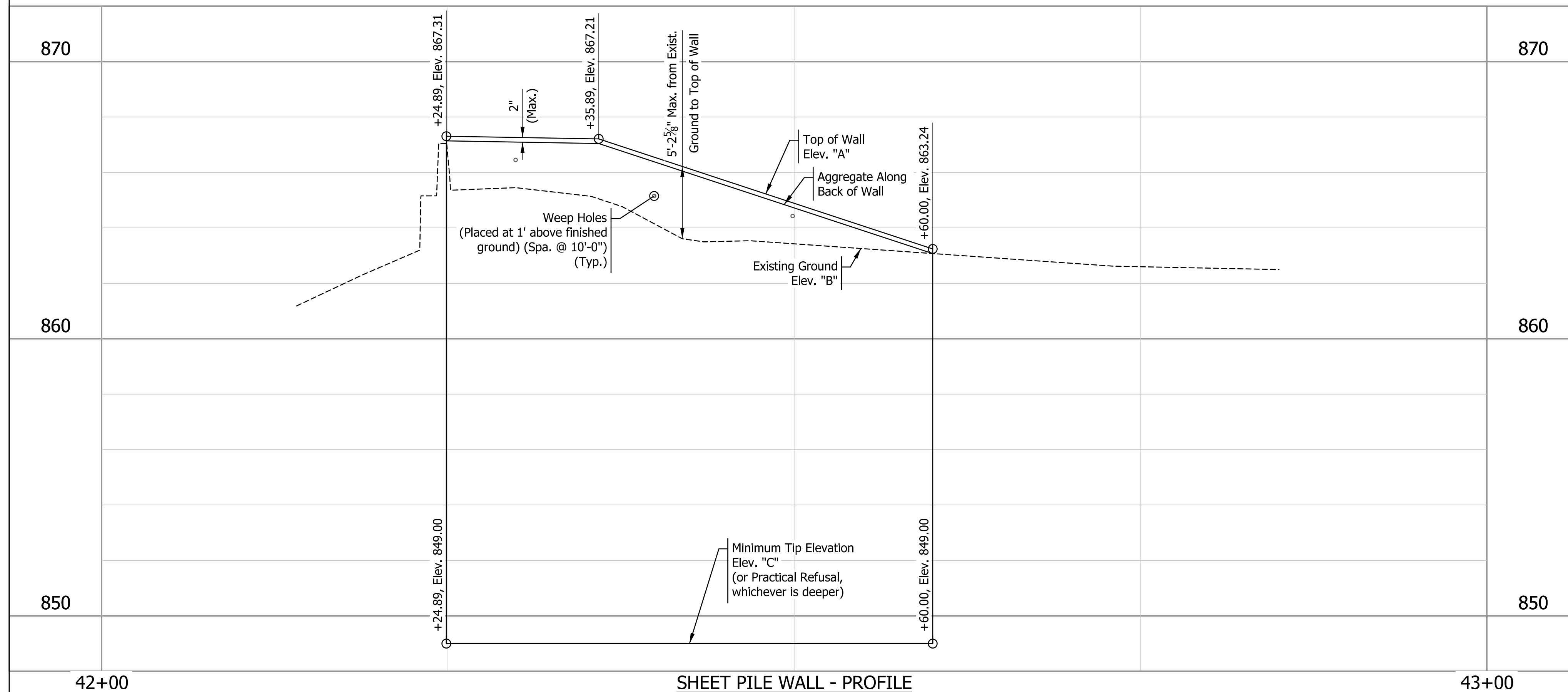
- 1) Drive sheet pile as shown.
- 2) Excavate to bottom of benching profile for roadway construction.
- 3) Replace excavated soil with B-Borrow and pavement material as necessary for pavement construction.

PERMANENT SHEET PILE WALL NOTES:

- Any sheet pile ruptured in the interlock or otherwise damaged during driving shall be pulled and replaced. The piling shall be driven in a manner that ensures perfect interlocking throughout the entire length of each pile. The piles shall be held in proper alignment during driving.
- Any new fill behind Sheet Pile Wall shall be B-Borrow.
- Sheet Pile Wall shall have weep holes for drainage. Weep Holes to be placed 1'-0" above the existing ground elevation and spaced @ 10'-0" Max. See Geotechnical Report for additional information.

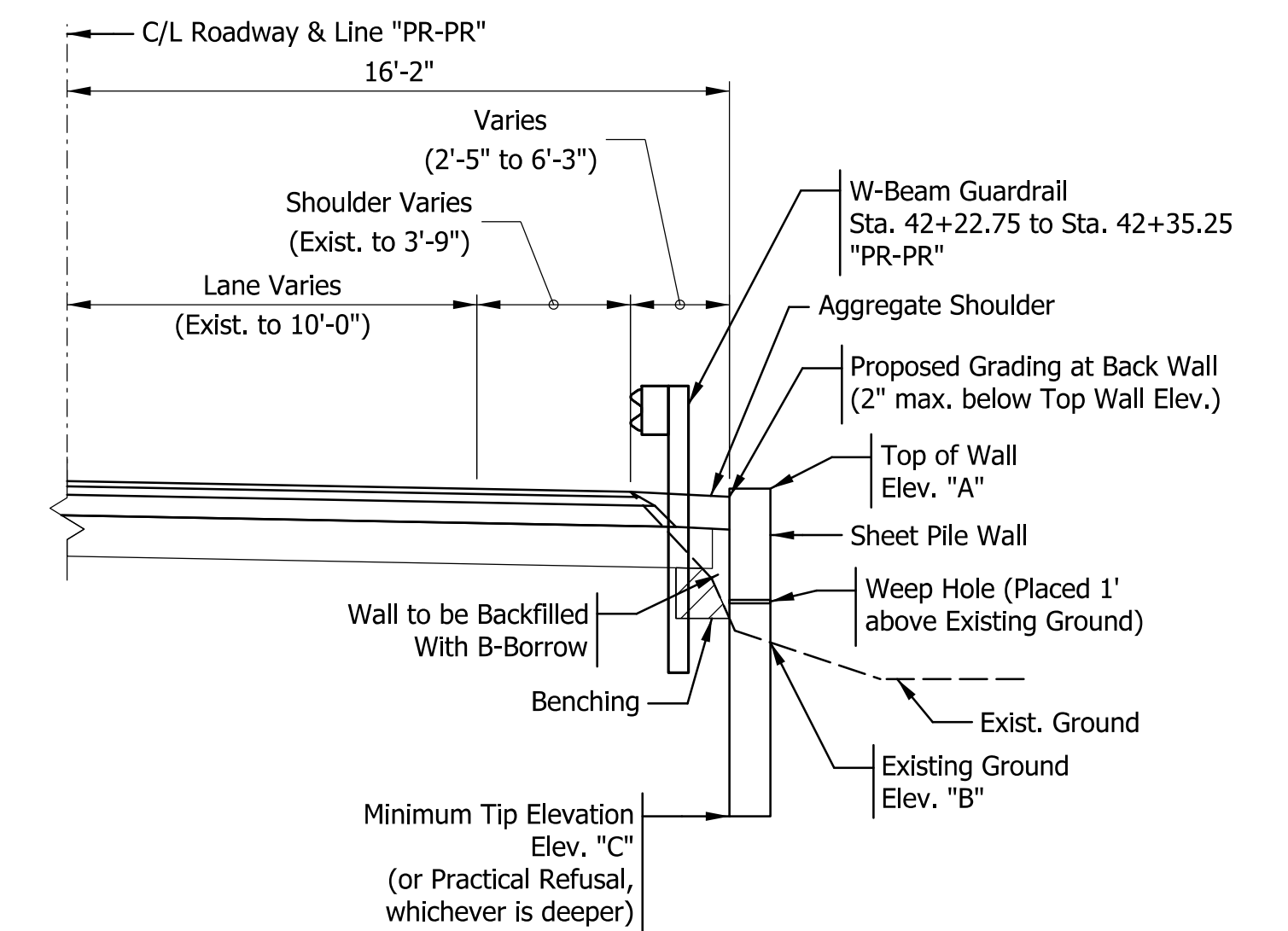
MINIMUM SPECIFICATIONS FOR SHEETING

Section	PZ-22
Section Modulus (in ³ /ft)	18.1
Moment of Inertia (in ⁴ /ft)	84.4
Sheeting Thickness (in.)	3/8
Yield Strength (ksi)	50
Approx. Lateral Deflection at Top of Wall (in.)	< 1
Pile Tip Elevation	849



SHEET PILE WALL - PROFILE

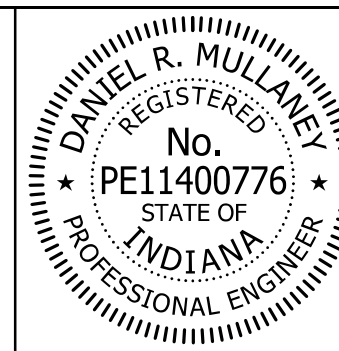
Horiz. Scale: 3/16" = 1'-0"
Vert. Scale: 3/8" = 1'-0"



TYPICAL SECTION

Scale: 1/4" = 1'-0"

Plot: 6/2/2026 11:22:00 AM

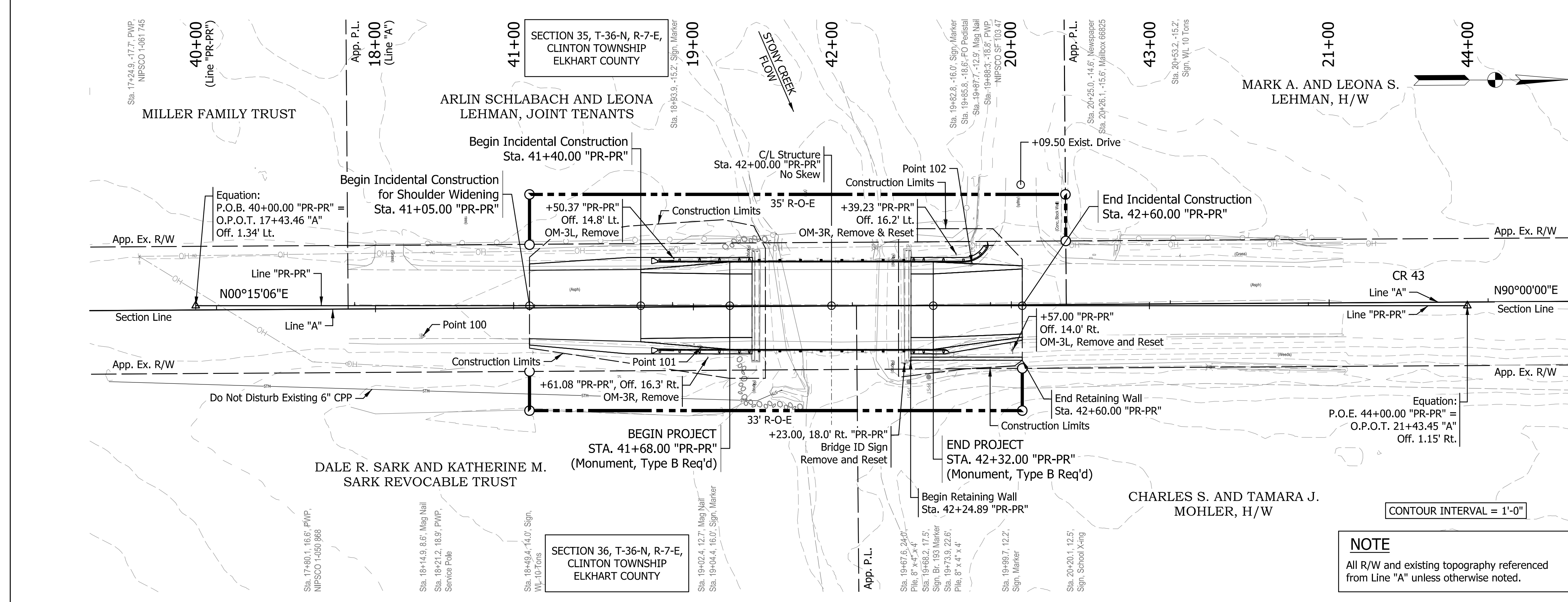


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DESIGNED: MHF	DRAWN: MHF	DATE
CHECKED: DRM	CHECKED: DRM	

ELKHART COUNTY
HIGHWAY DEPARTMENT

SHEET PILE WALL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	20-00193 B
VERTICAL SCALE	DESIGNATION
3/8" = 1'-0"	
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UTILITIES

See Index Sheet For Information.

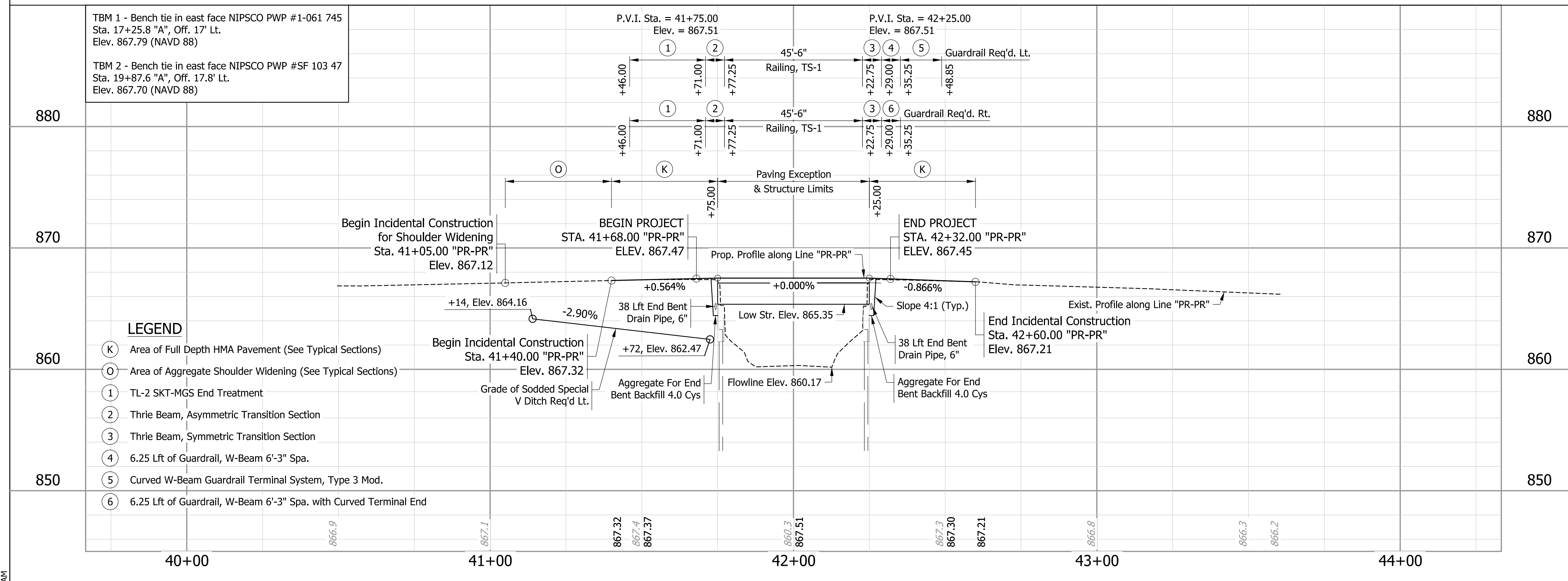
EXISTING STRUCTURE

Existing structure is a Single Span Prestressed Concrete Box Beam Bridge with no Skew on Bents. Existing Superstructure is to be Replaced, Substructure is to Remain.

ALIGNMENT REFERENCE TIES

- Point 100 - N:437131.8653, E:835591.2391, Elev. 866.79
Sta. 18+14.87 "A", 8.64' Rt.
Mag Nail with washer stamped "ELKHART CO. HIGHWAY FIRM 0159"
- Point 101 - N:437219.3828, E:835595.1410, Elev. 867.05
Sta. 19+02.38 "A", 12.71' Rt.
Mag Nail with washer stamped "ELKHART CO. HIGHWAY FIRM 0159"
- Point 102 - N:437304.6913, E:835569.3536, Elev. 867.09
Sta. 19+87.74 "A", 12.92' Lt.
Mag Nail with washer stamped "ELKHART CO. HIGHWAY FIRM 0159"
- Point 103 - N:437504.5778, E:835570.4943, Elev. 866.21
Sta. 21+87.62 "A", 11.41' Lt.
Mag Nail with washer stamped "ELKHART CO. HIGHWAY FIRM 0159"

NOTE
All R/W and existing topography referenced from Line "A" unless otherwise noted.



EARTHWORK SUMMARY

Fill +25%	19 CYS
Common Excavation	45 CYS
B Borrow	2 CYS
Total Waterway Excavation	0 CYS
Foundation Excavation Unclassified	15 CYS
Benching (Estimated)	28 CYS

No direct payment for Benching. Benching will not be paid for as Common Excavation.

ADJACENT PRESTRESSED CONCRETE BOX BEAM BRIDGE
SINGLE SPAN @ 48'-0"
27'-6" CLEAR ROADWAY; NO SKEW
COUNTY ROAD 43 OVER STONY CREEK
ELKHART COUNTY

RECOMMENDED FOR APPROVAL: *Don Mullany* DESIGN ENGINEER 6/2/2026 DATE

DESIGNED: MHF DRAWN: MHF

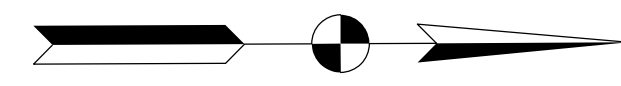
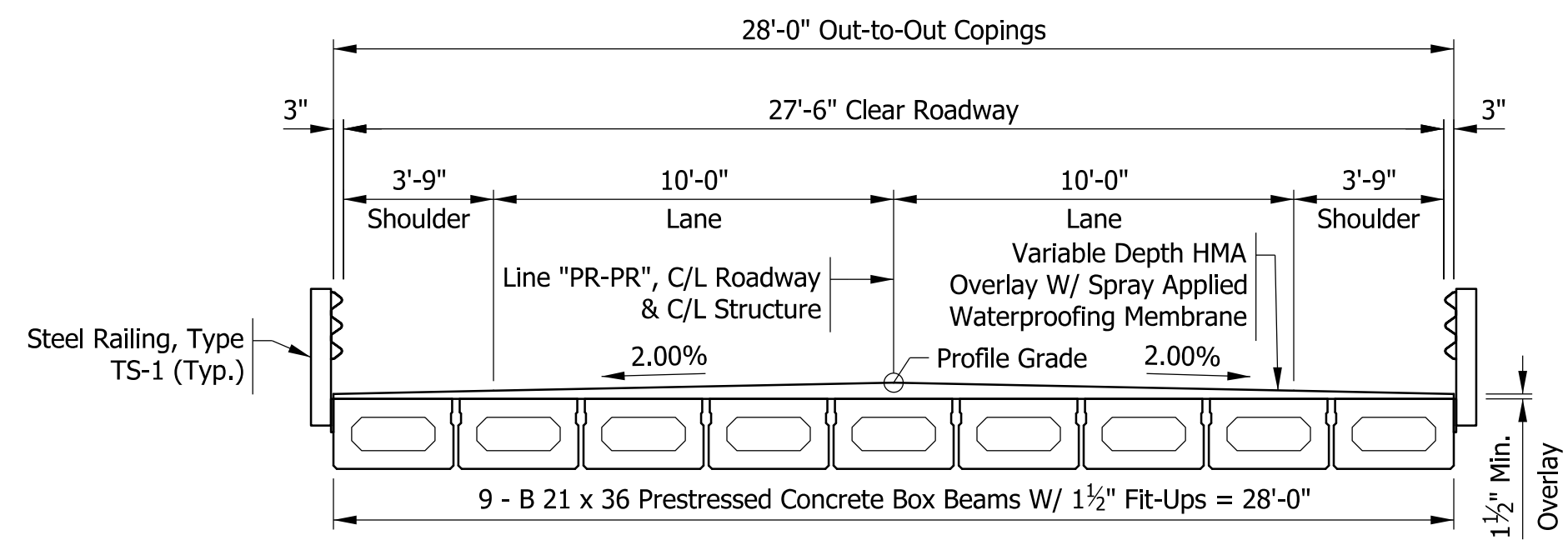
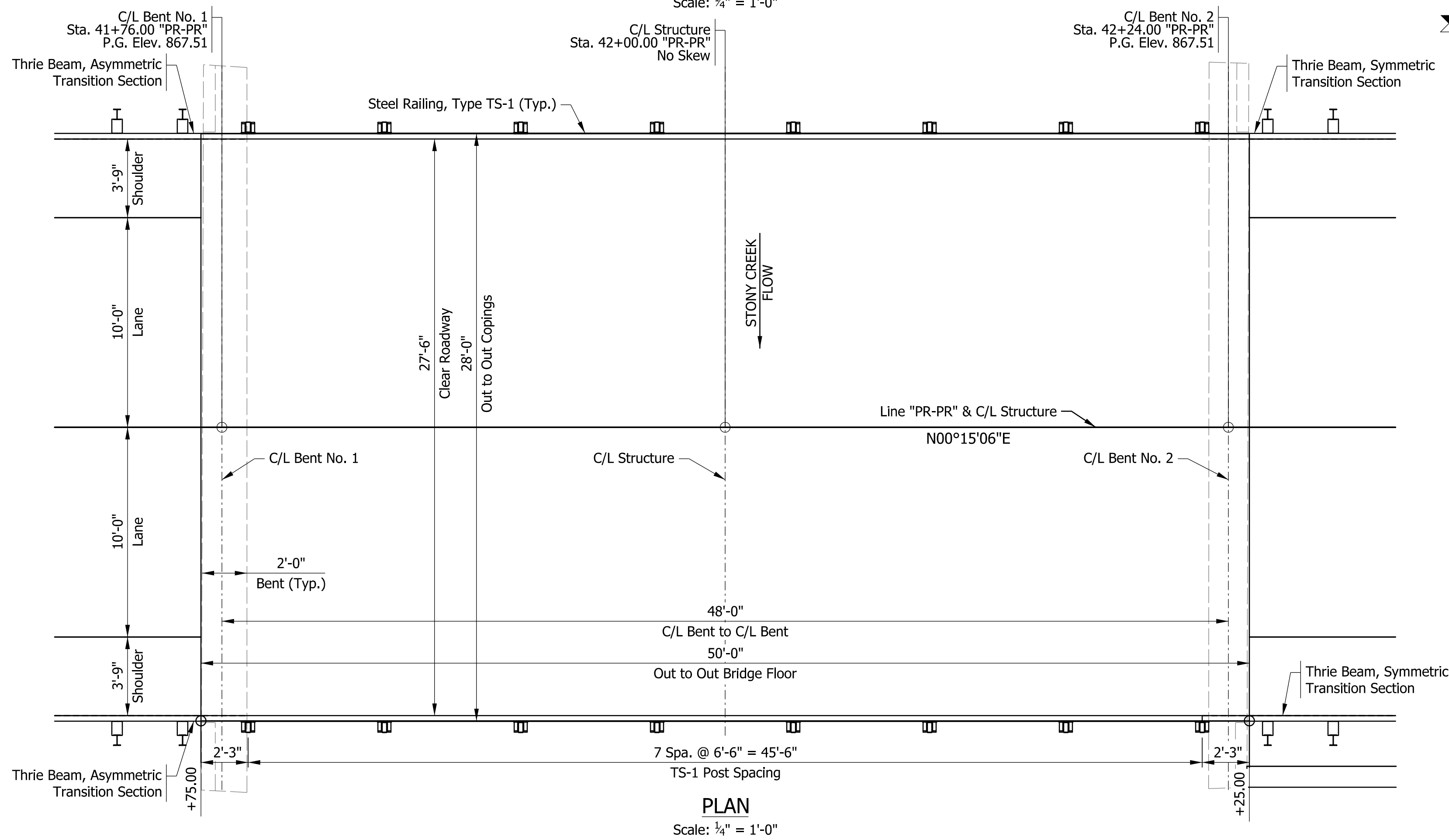
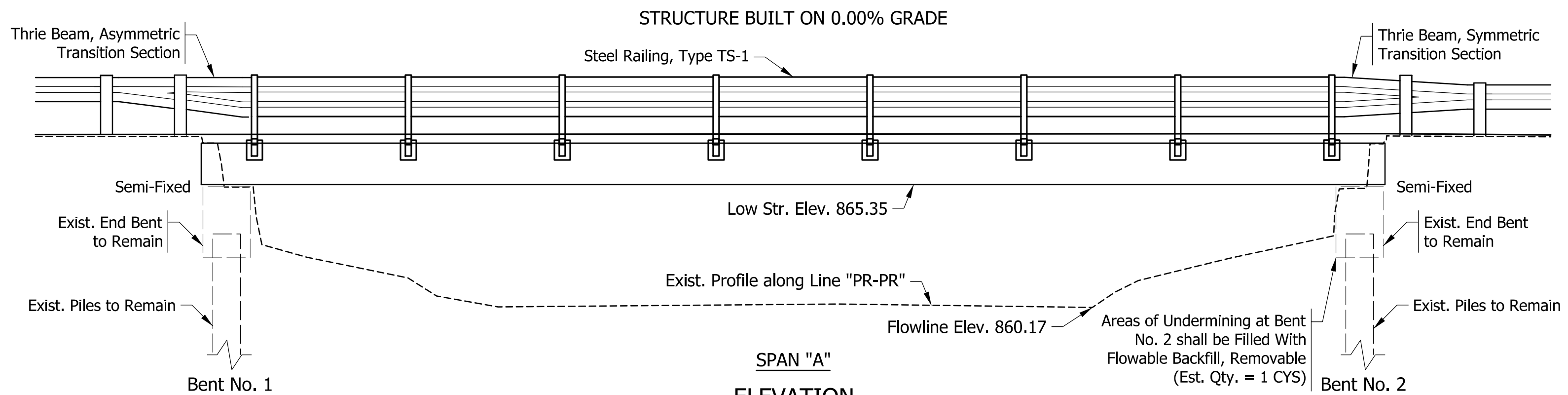
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ELKHART COUNTY HIGHWAY DEPARTMENT

LAYOUT

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 20-00193 B
VERTICAL SCALE 1" = 5'	DESIGNATION
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GENERAL NOTES

Plans for Existing Structure are on File as Elkhart Co. Br. 193 and are Available Upon Request.

Existing Substructure to Remain in Place.

Originally Designed for HS 20-44 Loading in accordance with 1970 AASHTO Specifications.

Refer to INDOT Recurring Plan Detail 706-B-140d for TS-1 Railing Details.

Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field, report all errors and discrepancies to the engineer and assume responsibility for their correctness and the fit of the new part to the old.

DESIGN DATA

Live Load: Superstructure Designed for HL-93 Loading in accordance with 2020 AASHTO LRFD Specifications (9th Edition) and subsequent interims.

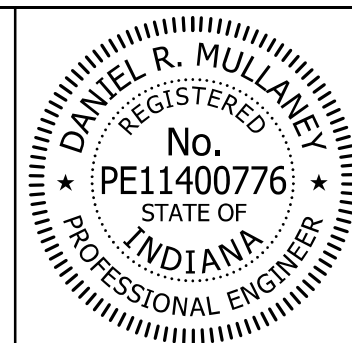
Dead Load: Actual Weight Plus 35 Psf for Future Wearing Surface

Material Properties:
Asphalt Overlay
165 lbs/syd (Min.) HMA Surface, Type B

Waterproofing Membrane
(See Technical Specifications)

ADJACENT PRESTRESSED CONCRETE BOX BEAM BRIDGE
SINGLE SPAN @ 48'-0"
27'-6" CLEAR ROADWAY; NO SKEW
COUNTY ROAD 43 OVER STONY CREEK
ELKHART COUNTY

Plot: 6/2/2026 11:22:34 AM

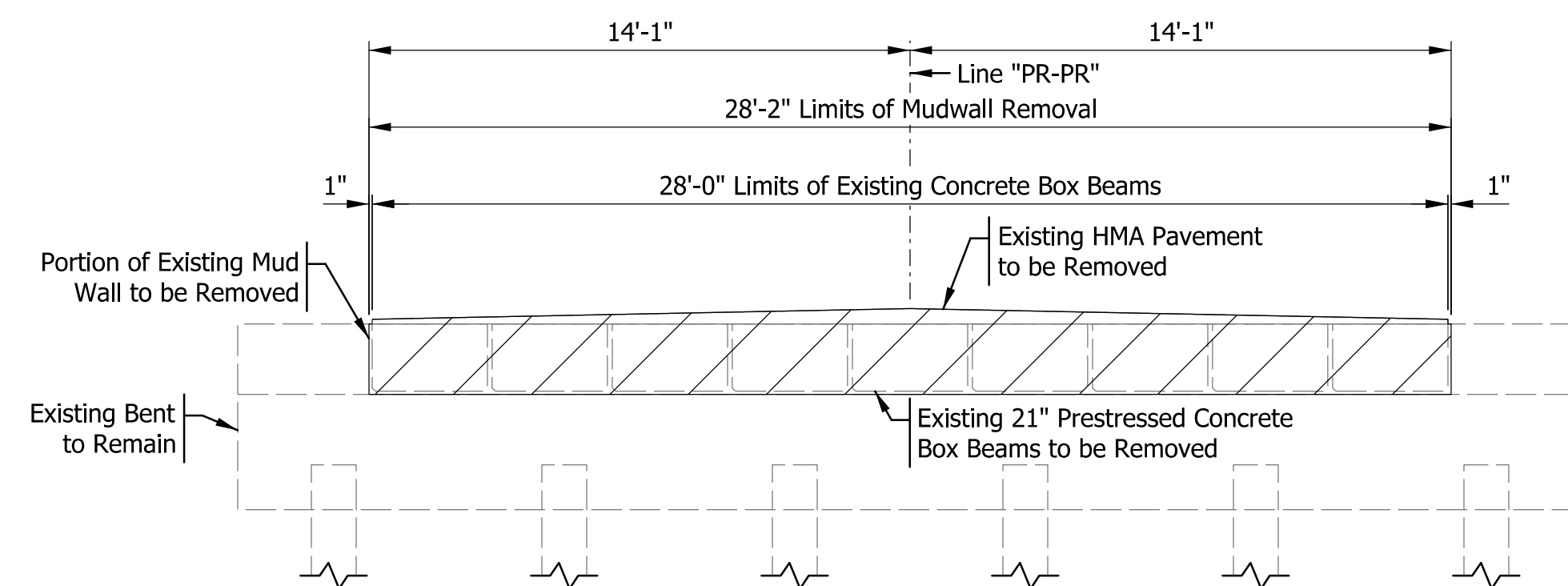
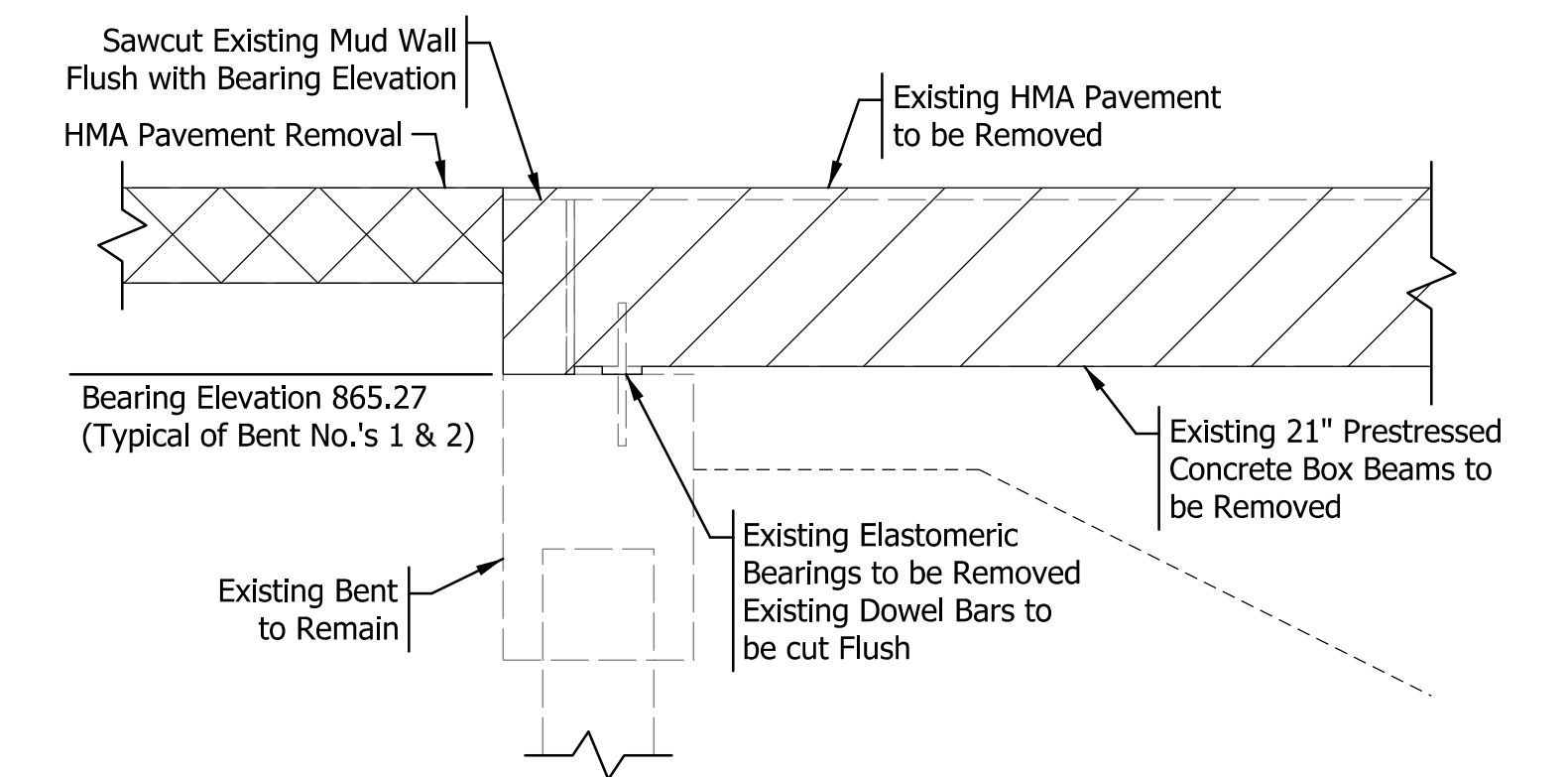
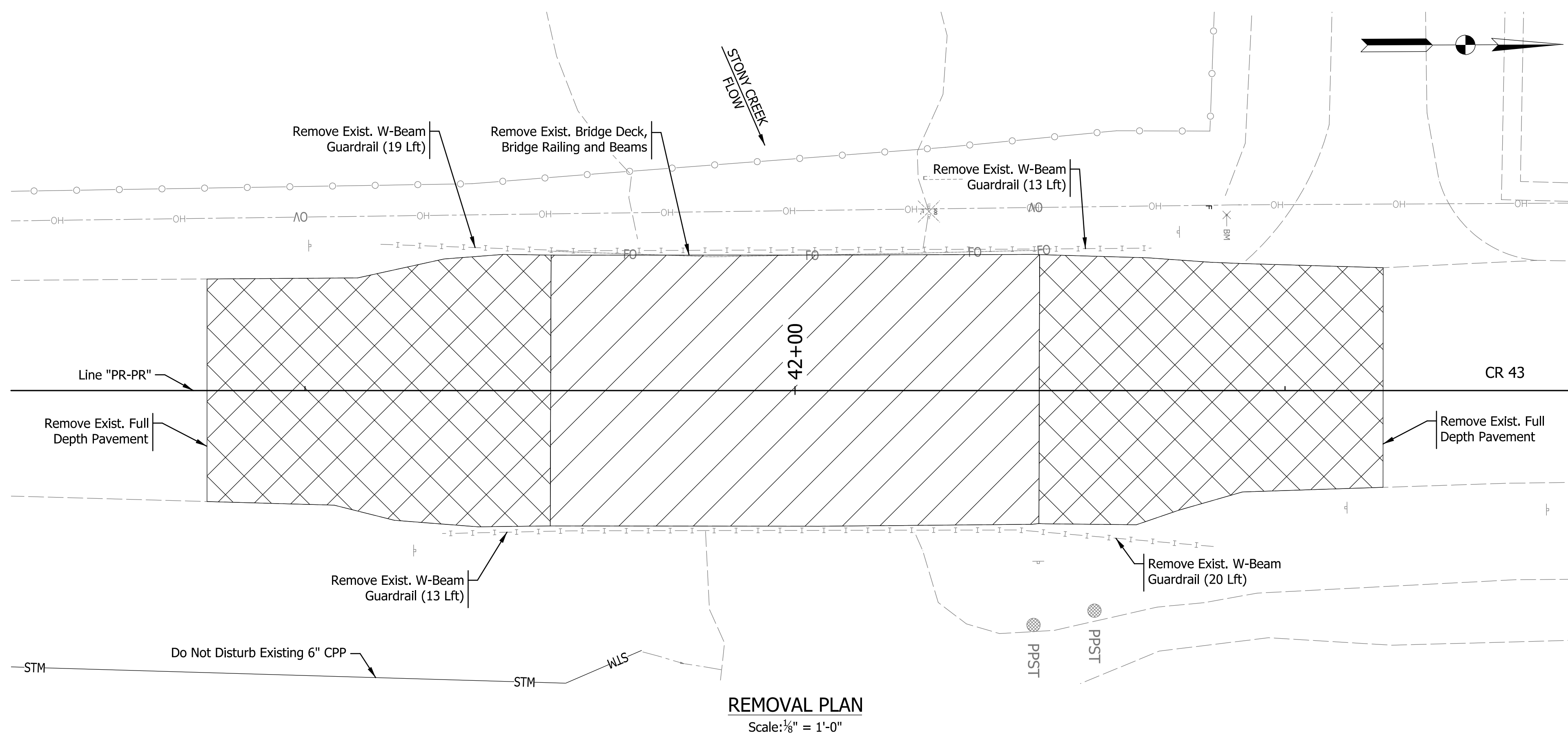


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	DESIGN ENGINEER	DATE
DESIGNED: MHF	DRAWN: MHF	
CHECKED: DRM	CHECKED: SC	

ELKHART COUNTY
HIGHWAY DEPARTMENT

GENERAL PLAN

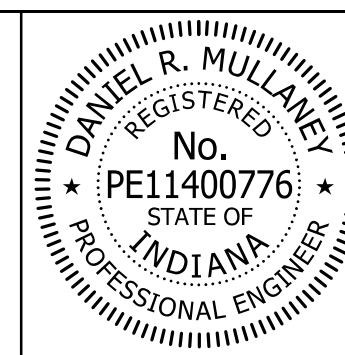
SCALE	BRIDGE FILE
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LEGEND

- Indicates Structure Removal
- Indicates HMA Pavement Removal (Paid for as Common Excavation)

Plot: 6/2/2026 11:22:47 AM

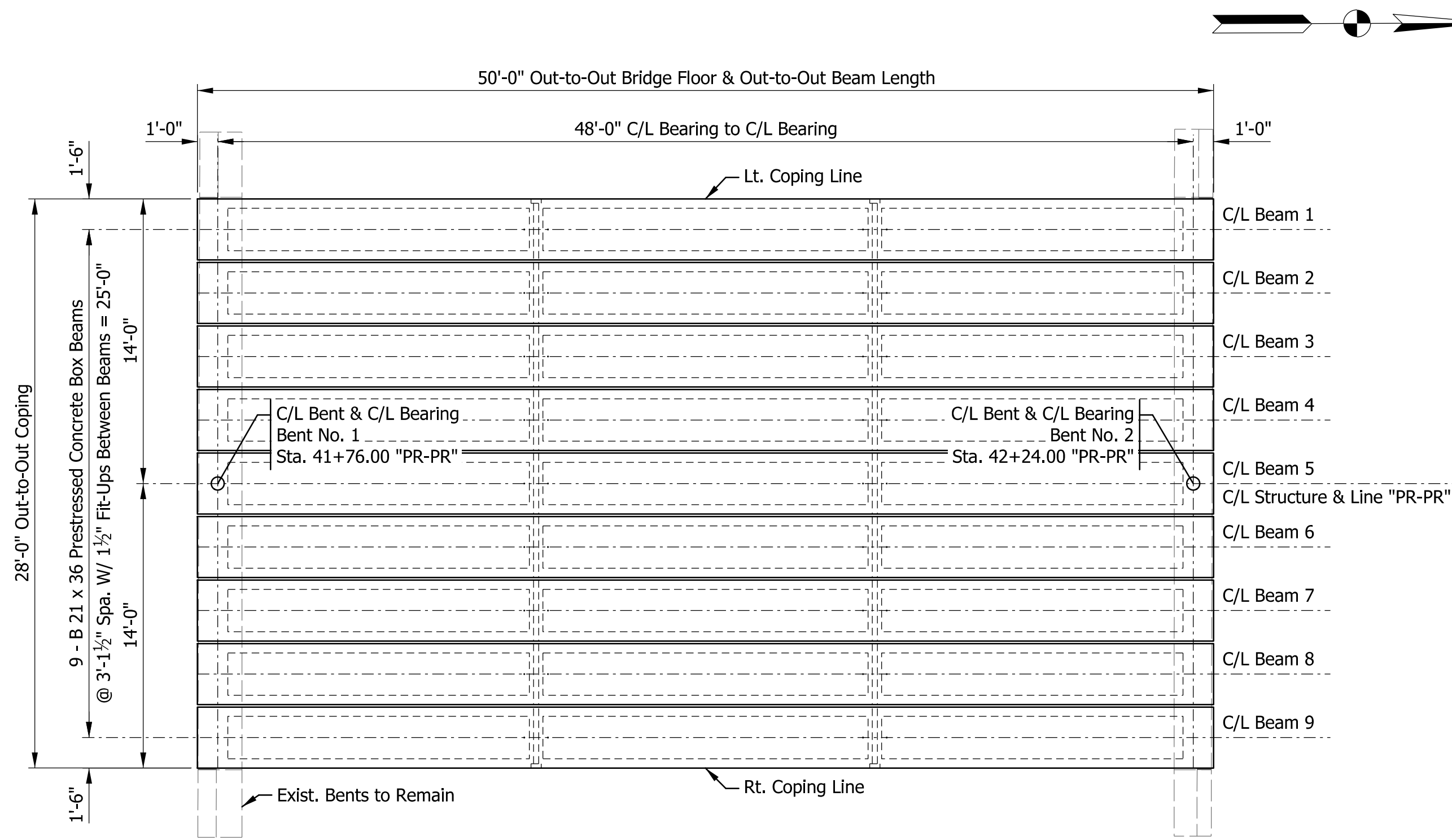


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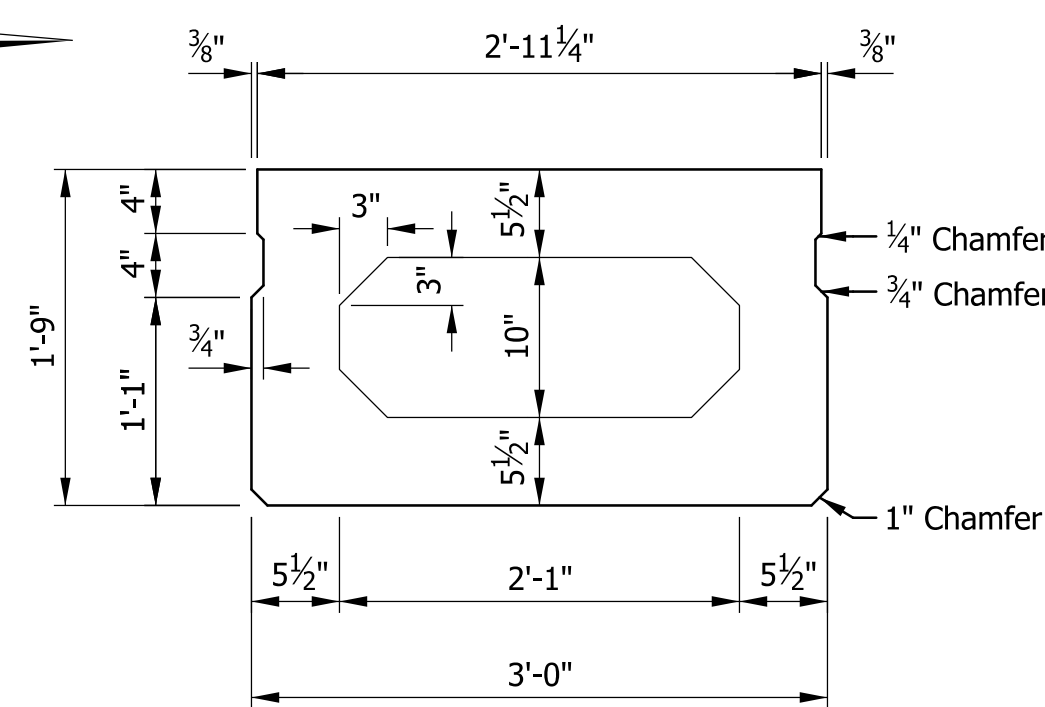
ELKHART COUNTY
HIGHWAY DEPARTMENT

REMOVAL DETAILS

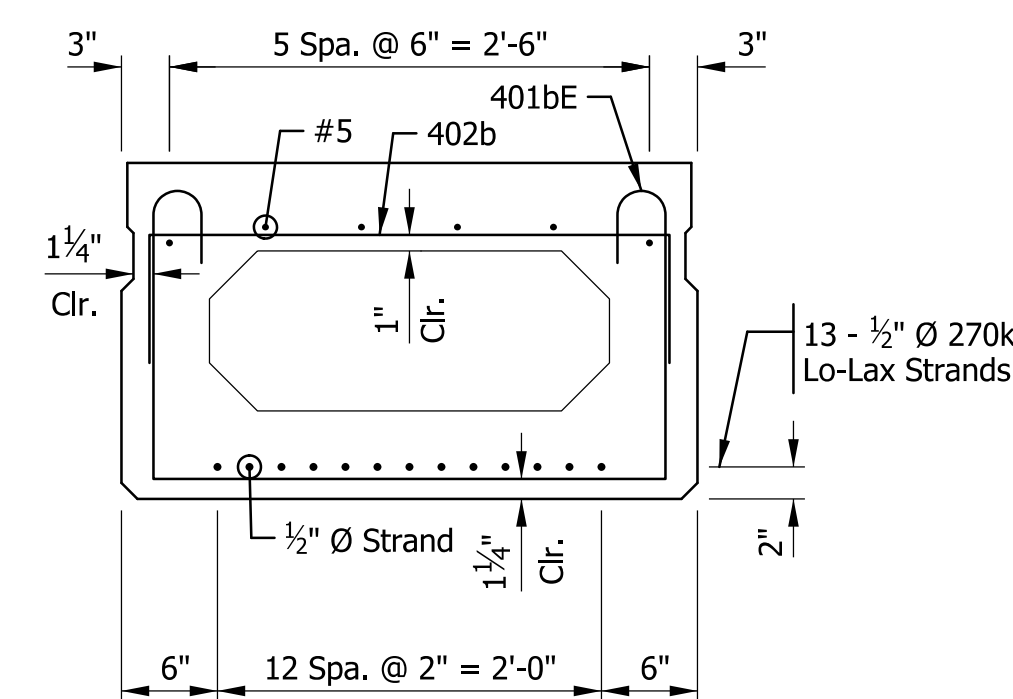
SCALE	BRIDGE FILE
AS NOTED	20-00193 B
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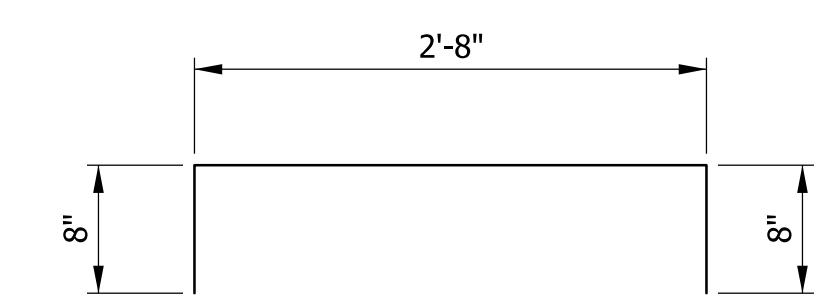
FRAMING PLAN
Scale: 3/16" = 1'-0"



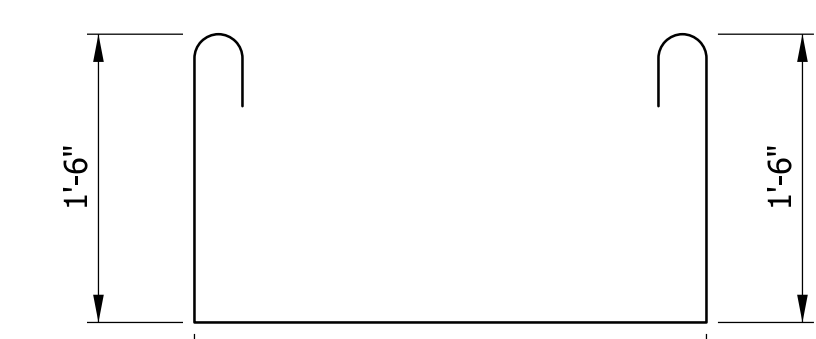
BEAM SECTION - CONCRETE
Scale: 1" = 1'-0"



BEAM SECTION - REINFORCING
Scale: 1" = 1'-0"



402b x 4'-0"



401b x 6'-8"

LEGEND

- Fully Bonded Strands
- 13 Total Strands

DESIGN DATA

PreStressing steel shall be 0.5" special (As = 0.167 sq. in. / strand) uncoated, low relaxation, Seven-wire strand, 270 ksi (ASTM A416)
 Initial pull per strand = 33.8 kips
 Concrete strength at release, f'ci = 5,000 psi.
 Concrete strength at 28 days, f'c = 6,000 psi.

Reinforcing steel shall be Grade 60 ksi minimum yield strength.

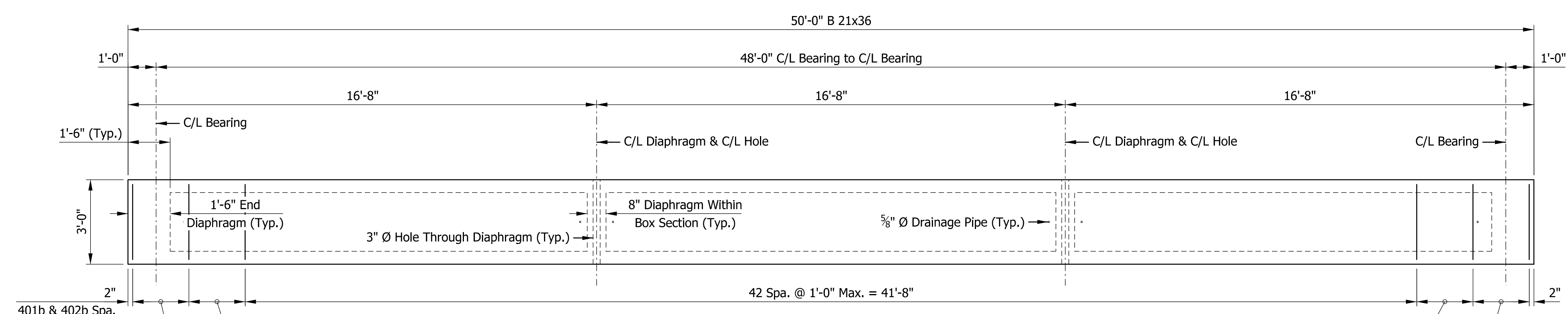
GENERAL NOTES

- Beams shall be cast a minimum 28 days prior to installation.
- Beams are to be lifted and supported at the bearing points during handling, storage and transportation.
- Allowance in the beam length should be made during fabrication.
- Elastomeric bearings shall consist of plain elastomer in accordance with Article 915.04 of the INDOT Standard Specifications with a durometer hardness of 50 on the Shore A scale.
- For Fabrication Tolerances of Prestressed Beams, see Standard Drawings E707-BPBF-01 Through -04.
- For Reinforcing Bar Notes, see Standard Drawing E 703-BRST-01.
- All reinforcing steel in beams shall be epoxy coated.
- Suitable restraint shall be provided to prevent the rotation of the beams, particularly the outside beam, from construction load, such as the weight of the concrete deck, finishing machine, forms, etc.
- Top of beams shall be scored transversely at about 3" on center with pointed tool.

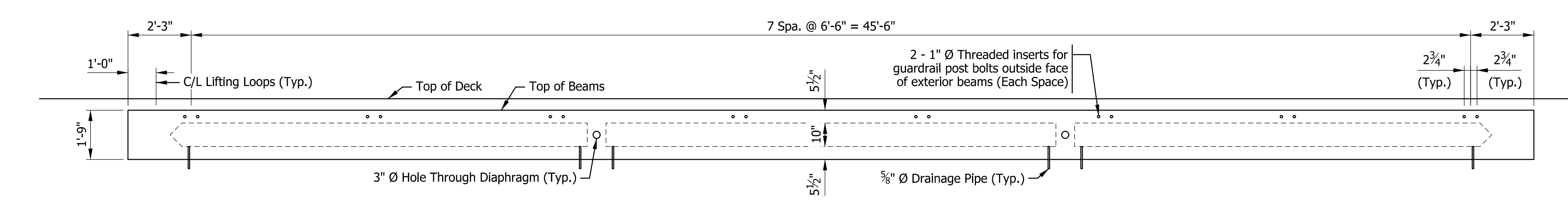
APPROXIMATE CAMBER

Computed Beam Camber (Upward)	2.192 IN.
Dead Load Deflection (Downward)	-1.043 IN.
Residual Camber (Upward)	0.989 IN.

Transverse Tensioning Roads: After the beams are in place, perform a preliminary tightening to the transverse tensioning rods. Perform final tensioning that yields 20 ksi as developed by a torque of 200 ft-lb. provide transverse tensioning rods and plates conforming to ASTM A709M Grade 250 with heavy hex nuts conforming to ASTM A307

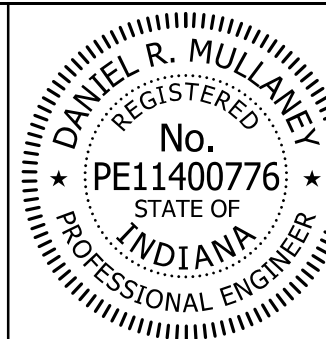


BEAM PLAN
Scale: 3/8" = 1'-0"



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

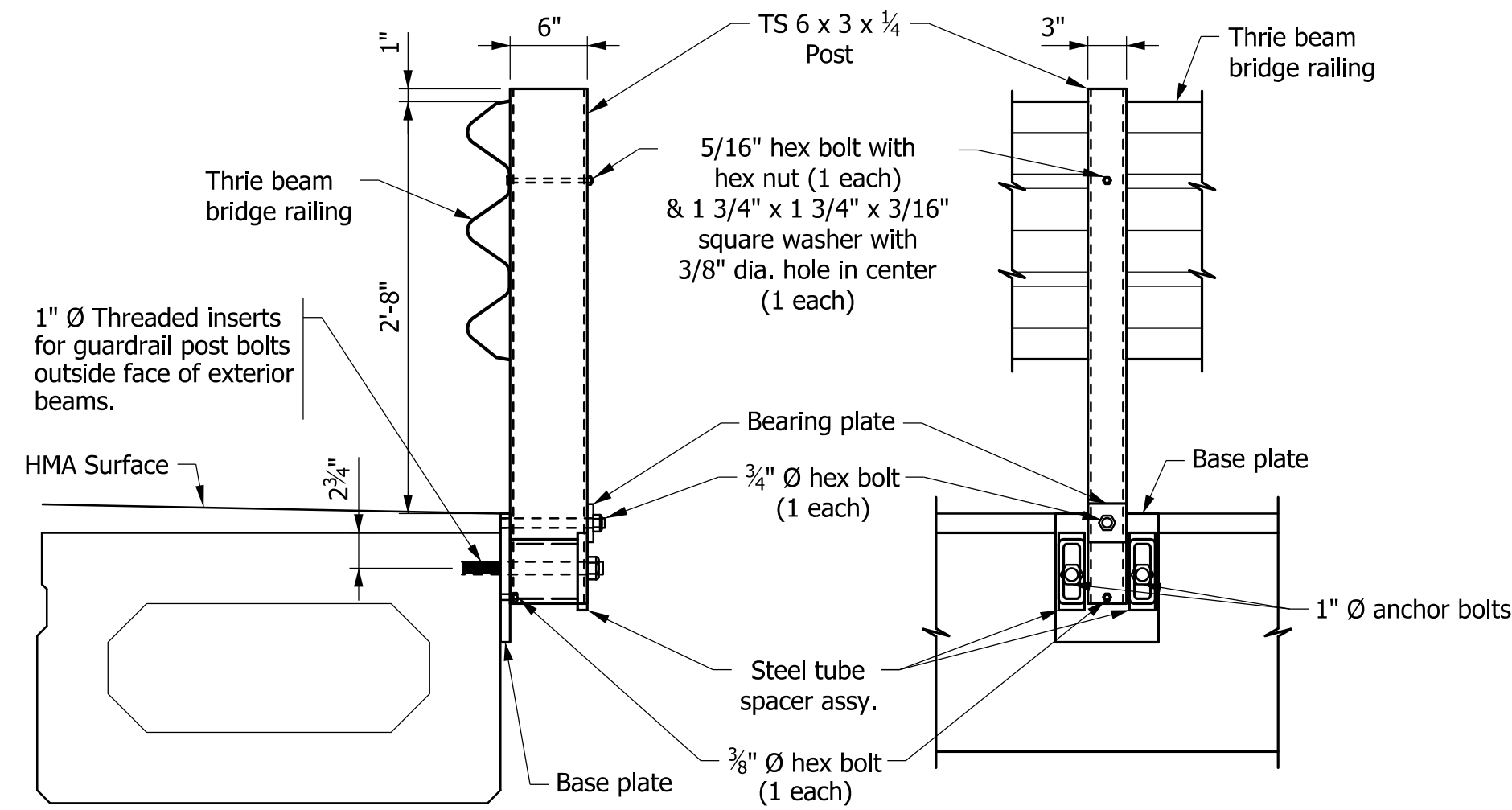
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RECOMMENDED FOR APPROVAL	<i>Dan Mullane</i>	6/2/2026
	DESIGN ENGINEER	DATE
DESIGNED: HW	DRAWN: MHF	
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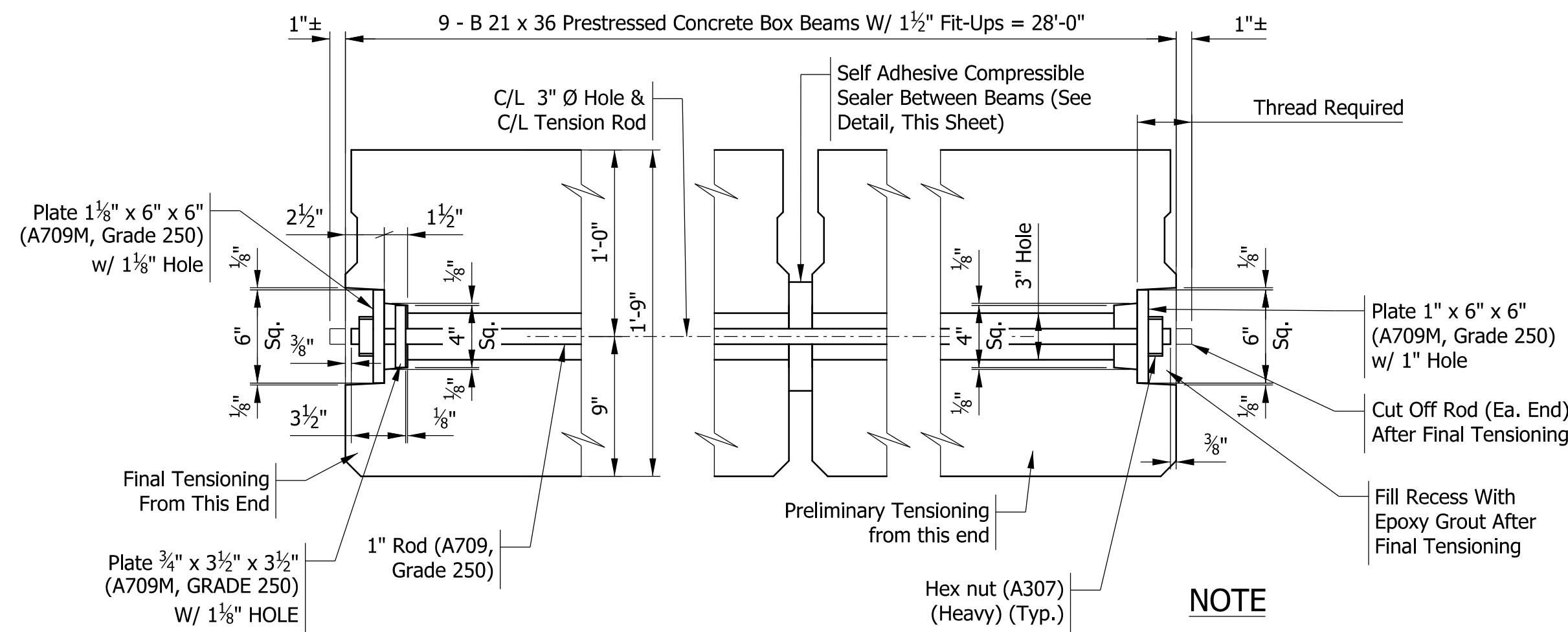
ELKHART COUNTY HIGHWAY DEPARTMENT	
BEAM DETAILS	

SCALE	BRIDGE FILE
AS NOTED	20-00193 B
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TS-1 BRIDGE RAIL ASSEMBLY DETAIL

Scale: 1" = 1'-0"

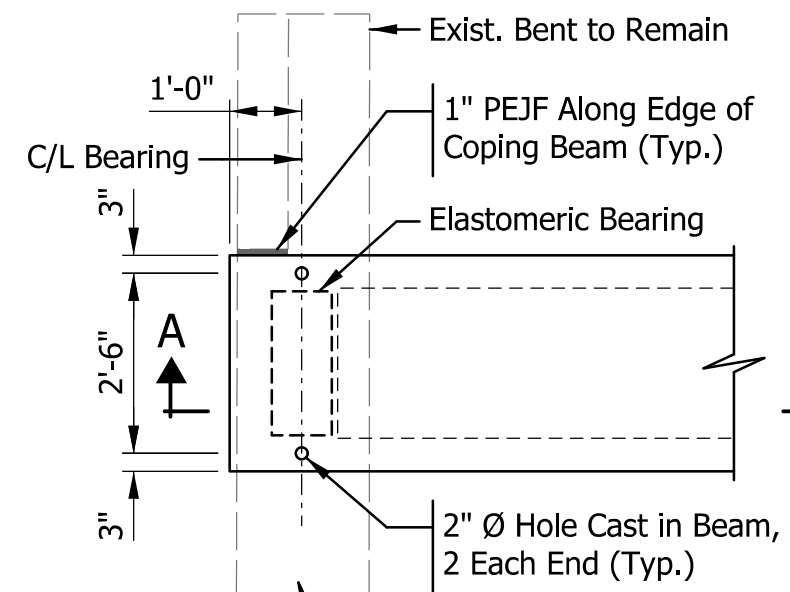


SECTION SHOWING TRANSVERSE TENSION ROD

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

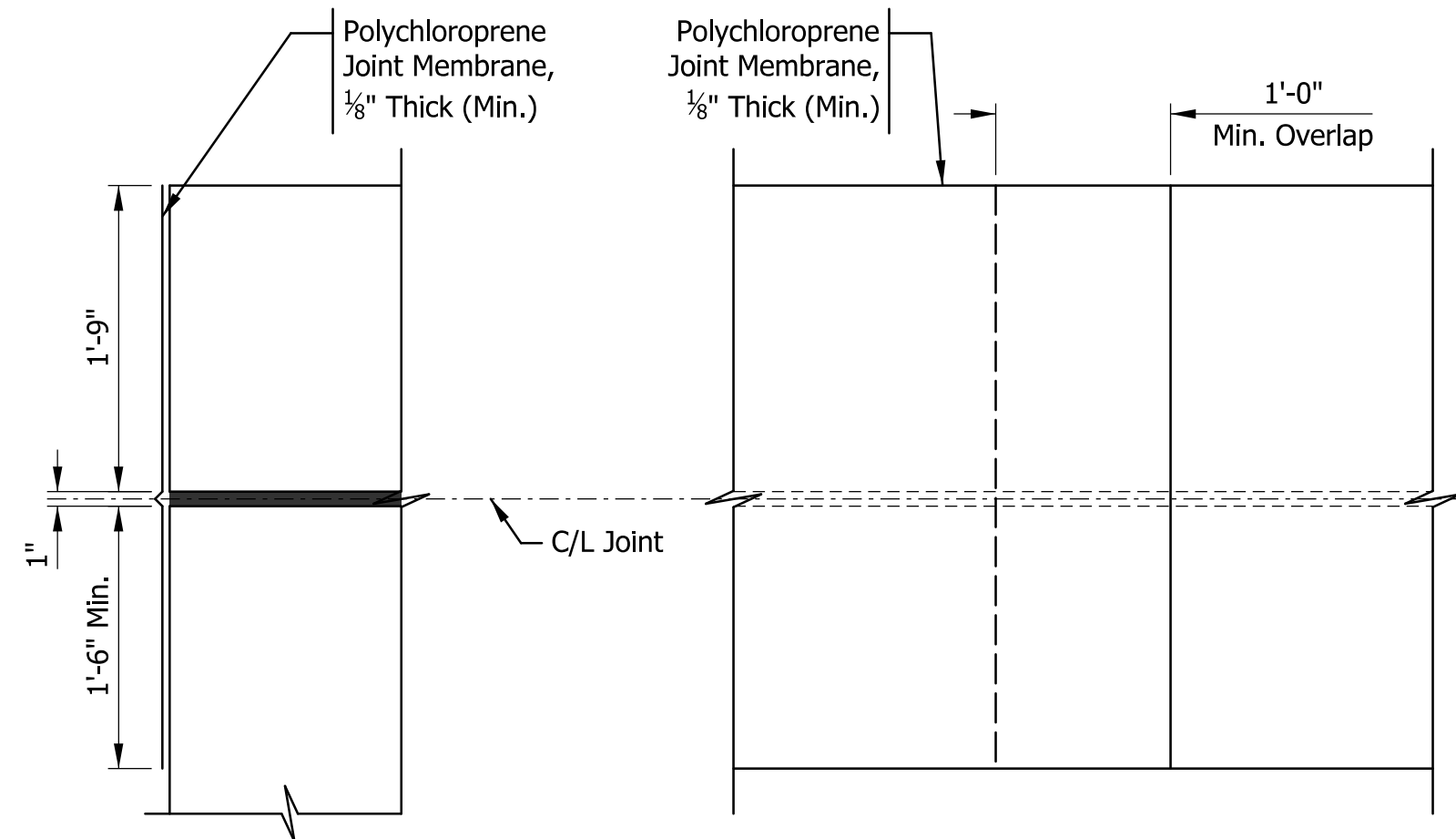
NOTE
Final tensioning shall Yield 20 ksi as developed by a torque of 200 ft-lb.

Note: See INDOT Recurring Plan Detail 706-B-140d for Bearing Plate, Base Plate, Steel Tube Spacer Assembly, and Railing Post Details.



BEARING PLAN

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

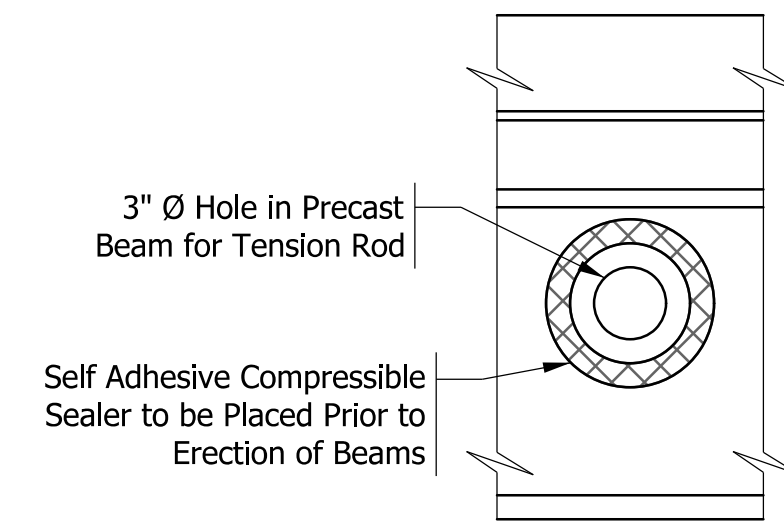


TYPICAL SECTION

ELEVATION

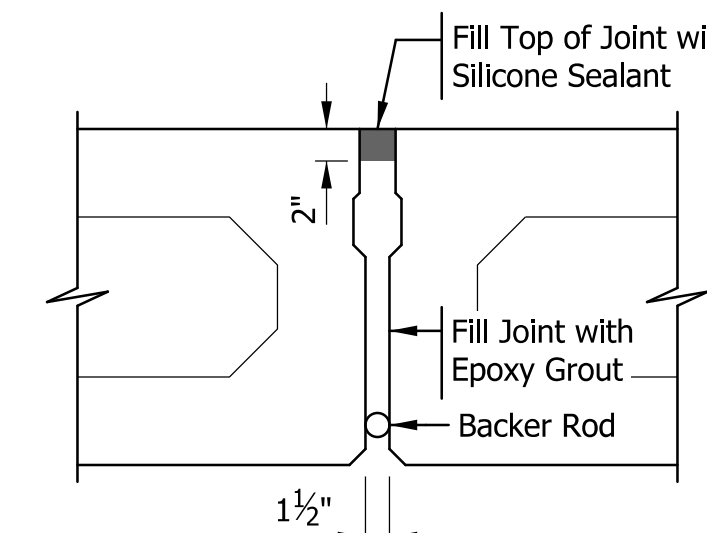
JOINT MEMBRANE DETAIL

Scale: 1" = 1'-0"



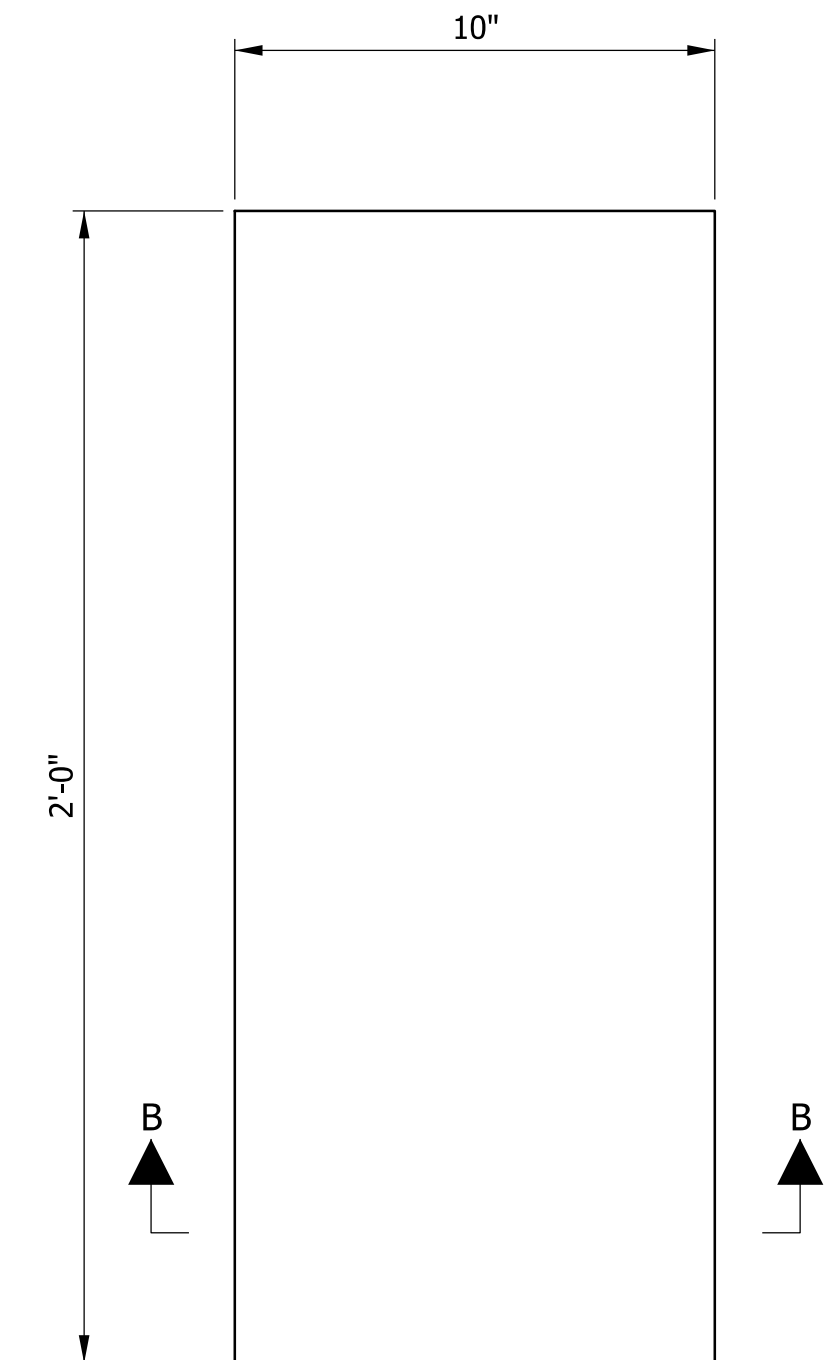
COMPRESSIBLE SEALER DETAIL

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

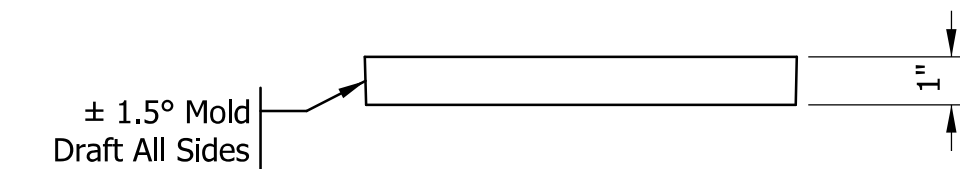


BEAM JOINT DETAIL

Scale: 1" = 1'-0"

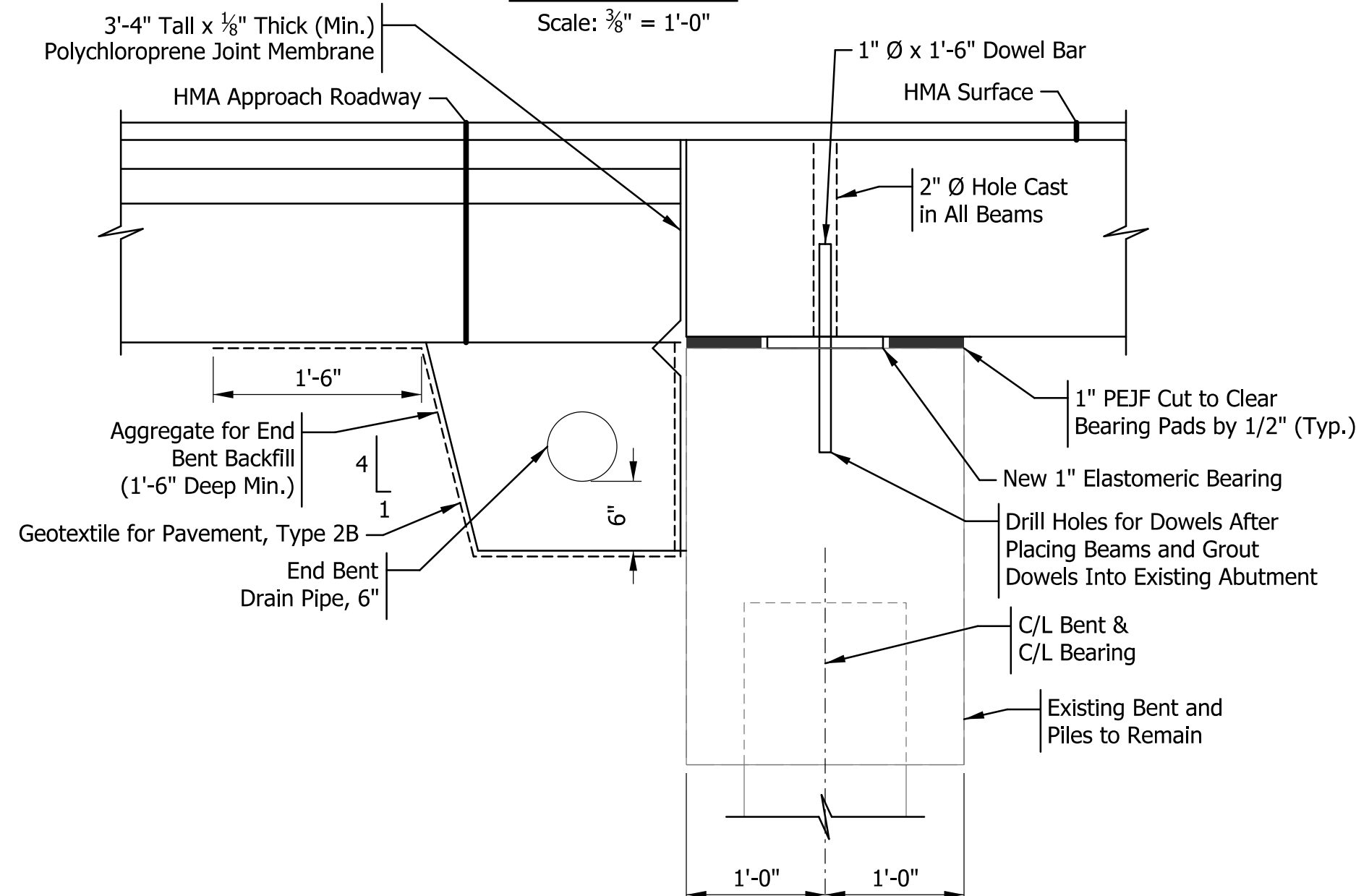


PLAN



**SECTION "B-B"
ELASTOMERIC BEARING DETAILS**

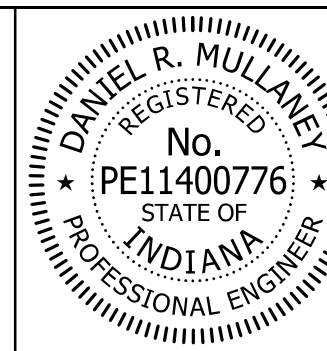
Scale: 3" = 1'-0"



SECTION "A-A"

Scale: 1" = 1'-0"

Plot: 6/2/2026 11:23:06 AM

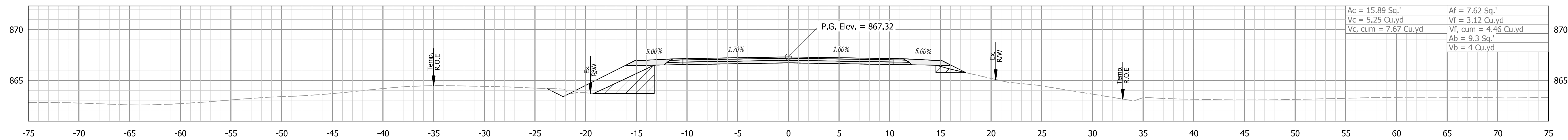


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	DESIGN ENGINEER	DATE
DESIGNED: HW	DRAWN: MHF	
CHECKED: SC	CHECKED: SC	

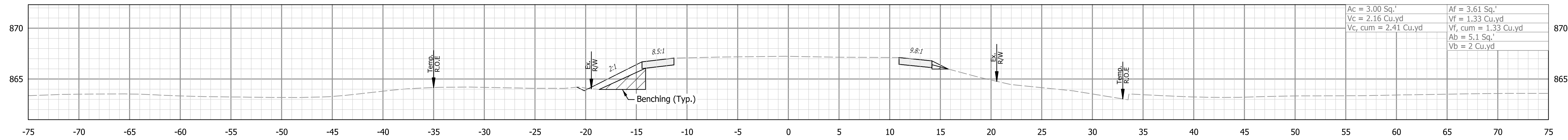
ELKHART COUNTY
HIGHWAY DEPARTMENT

BEAM DETAILS

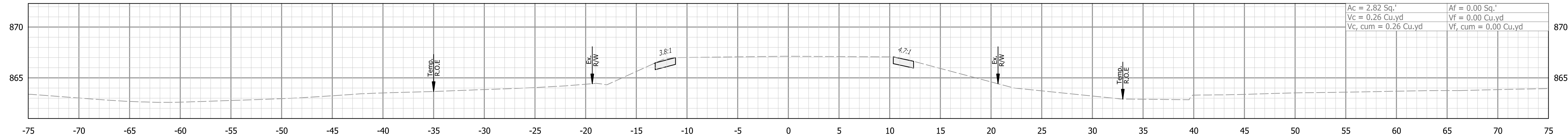
SCALE	BRIDGE FILE
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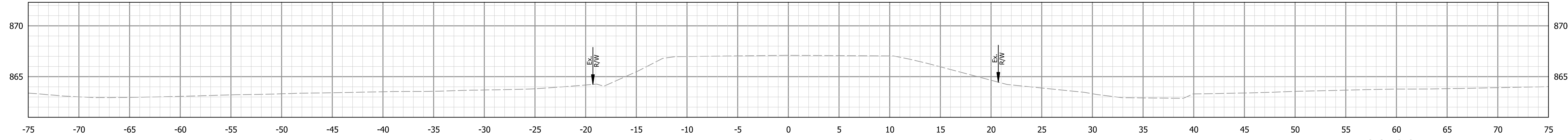
41+40.00
 Begin Incidental Construction
 Sta. 41+40.00 "PR-PR"



41+25.00



41+05.00
 Begin Incidental Construction
 for Shoulder Widening
 Sta. 41+05.00 "PR-PR"



41+00.00



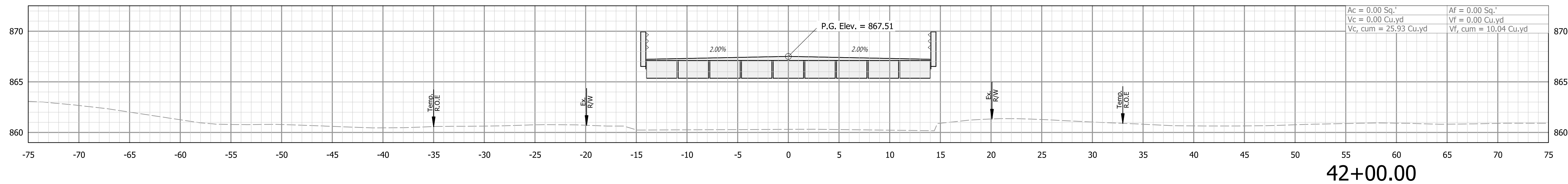
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: MHF _____ DRAWN: MHF _____
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ELKHART COUNTY
 HIGHWAY DEPARTMENT

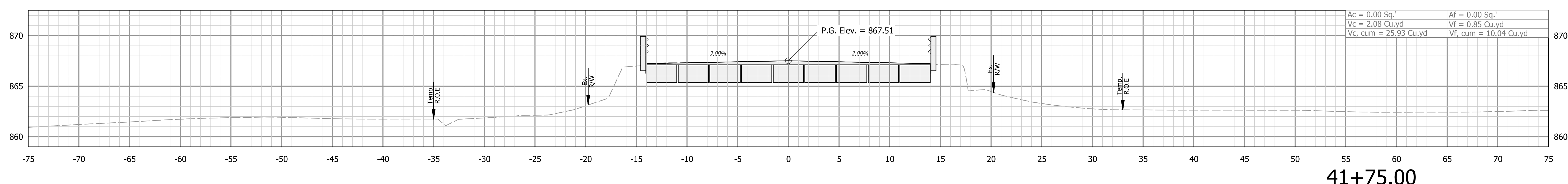
CROSS SECTIONS
 LINE "PR-PR"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 20-00193 B
VERTICAL SCALE 1" = 5'	DESIGNATION
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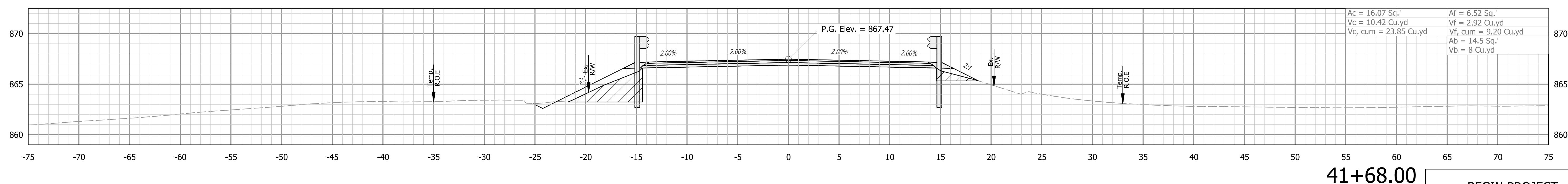
Plot 6/2/2026 11:23:36 AM



42+00.00

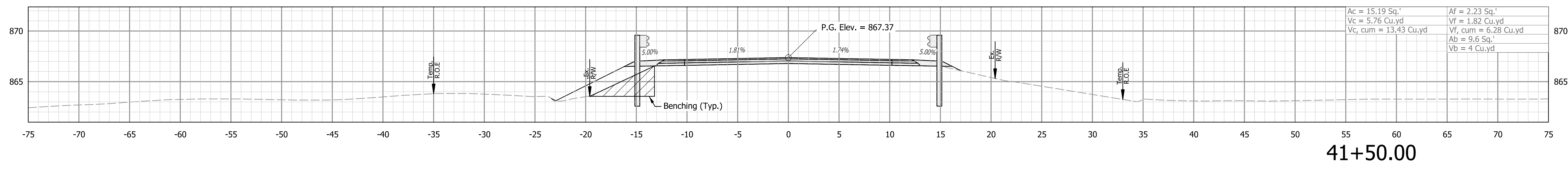


41+75.00



41+68.00

BEGIN PROJECT
STA. 41+68.00 "PR-PR"



41+50.00

Plot 6/2/2026 11:23:42 AM

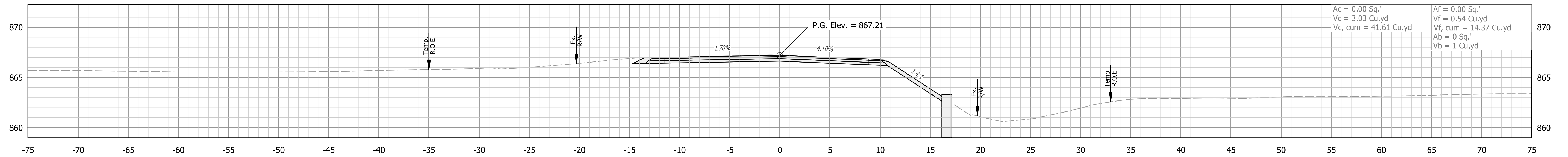


RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: MHF	DRAWN: MHF	
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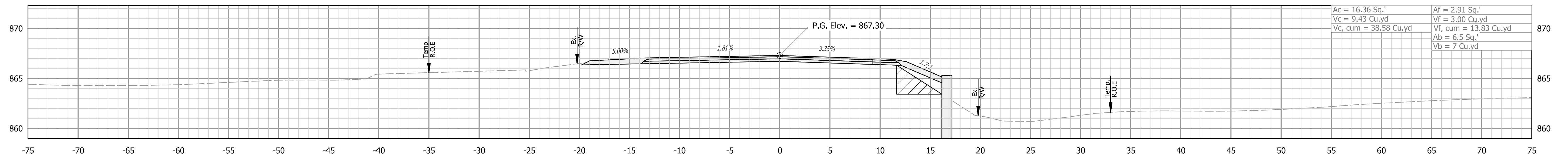
ELKHART COUNTY
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CROSS SECTIONS
LINE "PR-PR"

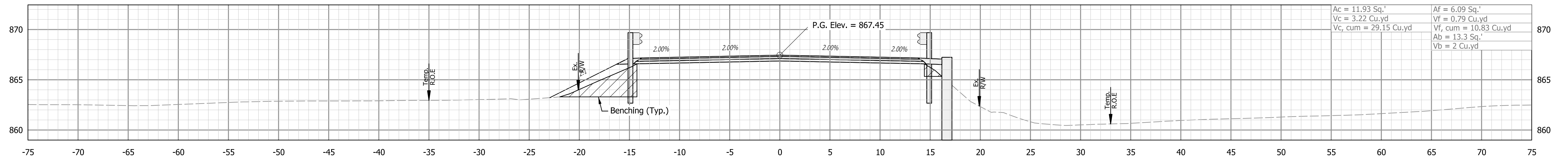
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VERTICAL SCALE 1" = 5'	DESIGNATION
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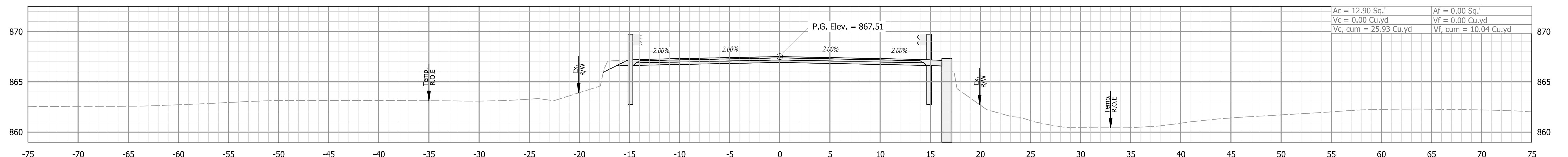
42+60.00
 End Incidental Construction
 Sta. 42+60.00 "PR-PR"



42+50.00



42+32.00
 END PROJECT
 STA. 42+32.00 "PR-PR"



42+25.00

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____

DESIGNED: MHF DRAWN: MHF

CHECKED: DRM CHECKED: DRM

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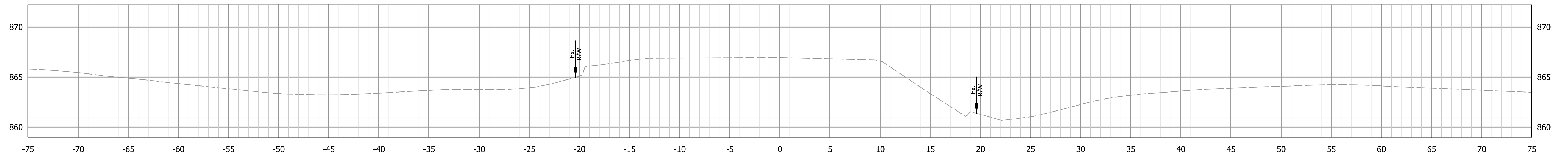
CROSS SECTIONS
 LINE "PR-PR"

HORIZONTAL SCALE
 1" = 5'

VERTICAL SCALE
 1" = 5'

BRIDGE FILE
 20-00193 B
 DESIGNATION

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 CONTRACT



42+75.00

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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: MHF _____	DRAWN: MHF _____	
CHECKED: DRM _____	CHECKED: DRM _____	

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CROSS SECTIONS
LINE "PR-PR"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 20-00193 B
VERTICAL SCALE 1" = 5'	DESIGNATION
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CONTRACT	