



October 11, 2023

ELECTRONICALLY FILED

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17105-3265

Re: Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to replace the existing bridge where State Route 0435 crosses above the tracks of Pennsylvania Northeast Regional Railroad Authority and operated thereon by the Delaware & Lackawanna Railroad, DOT Number 264 067 L, in Elmhurst Township, Lackawanna County and the allocation of costs incident thereto.

Dear Secretary Chiavetta:

Enclosed for filing, please find the Application of the Department of Transportation.

A copy of this Application and Exhibits has been served upon the parties in the Certificate of Service to the Application.

Sincerely,

A handwritten signature in blue ink, appearing to read "SJF", positioned above the typed name.

Sarah J. Fenton
Grade Crossing Engineer
Engineering District 4-0
Department of Transportation

Attachments

cc: Parties of Record
William Sinick, P.E., Supervisor, Rail Safety Engineering Section PUC
Benjamin Martz P.E. Senior Structural Engineer CDR/Maguire Engineering



Richard Poplawski, Assistant Liaison Engineer, PennDOT

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to replace the existing bridge where State Route 0435 crosses above the tracks of Pennsylvania Northeast Regional Railroad Authority and operated thereon by the Delaware & Lackawanna Railroad, DOT Number 264 067 L, in Elmhurst Township, Lackawanna County and the allocation of costs incident thereto.

Application

Docket No. _____

Electronically Filed

**APPLICATION OF THE COMMONWEALTH OF PENNSYLVANIA, DEPARTMENT
OF TRANSPORTATION**

Applicant, Commonwealth of Pennsylvania, Department of Transportation, files this Application pursuant to the provisions of 66 Pa.C.S § 2702 and 52 Pa. Code § 5.13 for the alteration of the public above grade crossing where SR 435 crosses the tracks of Pennsylvania Northeast Regional Railroad Authority and operated thereon by the Delaware & Lackawanna Railroad at DOT Number 264 067 L in Elmhurst Township, Lackawanna County as described below:

1. The name and address of Applicant are: Commonwealth of Pennsylvania, Department of Transportation, Susan Hazelton, P.E., Assistant District Executive, Engineering District 4-0, 55 Keystone Industrial Park, Dunmore, PA18512.

2. The name and address of attorney for the Applicant are Donald J. Smith, Chief Counsel, Commonwealth of Pennsylvania, Department of Transportation, Office of Chief Counsel, PO Box 8212, Harrisburg, PA 17105-8212.

3. The Applicant is an agency of Commonwealth of Pennsylvania, organized and existing under the Administrative Code of 1929, 71 P.S. § 511, et seq. and generally 36 P.S. § 670 - 401 et seq.

4. The names and addresses of the persons, parties and entities concerned in, or affected by the proposed construction, to the best of the Applicant's knowledge, are shown in the certificate of service. In addition to those served, the Applicant requests that the following also receive service of all documents in this matter:

Mark J. Chappell, P.E., Chief
Right of Way, Utilities and Grade Crossing
Division
Pennsylvania Department of Transportation
PO Box 3362
Harrisburg, PA 17105-3362
marchappell@pa.gov

Karen L. Cummings, Esquire
Counsel for Applicant
Office of Chief of Counsel
Pennsylvania Department of Transportation
PO Box 8212
Harrisburg, PA 17105-8212
kcummings@pa.gov

5. The Applicant is seeking approval to replace the bridge structure, relocate a concrete culvert and construct a temporary railroad crossing on State Route 435 Segment 0220 Offset 0340 over the tracks of the Pennsylvania Northeast Regional Railroad at railroad Mile Post 123.49. The horizontal and vertical clearances will exceed the Public Utility Commission's minimum clearances in 52 Pa. Code Chapter 33. A Location Map is attached hereto and marked as Exhibit "A". Additionally, a copy of the Type, Size, and Location Plans is attached hereto and marked as Exhibit "B".

6. The Applicant is aware of prior Public Utility Commission proceedings for this crossing at Docket Number A-00104916.

7. The average daily traffic for State Route 435 at this crossing is 7017 vehicles with 5% trucks.

8. The estimated total cost for the project subject to the application and described above is \$13,800,000.00. It is anticipated that the funding for the project will be federal funds and/or state funds.

9. This project is necessary and proper for the safety and convenience of the public.

10. A conference of all parties of interest should be held to discuss the proposed alteration.

Wherefore, Applicant respectfully requests that the Public Utility Commission approve this application.

Respectfully Submitted:



Susan Hazelton, P.E.
Assistant District Executive
Engineering District 4-0
Department of Transportation
55 Keystone Industrial Park
Dunmore, PA. 18512
Phone (570) 963-4061
shazelton@pa.gov

Dated: 10/03/2023

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to replace the existing bridge where State Route 0435 crosses above the tracks of Pennsylvania Northeast Regional Railroad Authority and operated thereon by the Delaware & Lackawanna Railroad, DOT Number 264 067 L, in Elmhurst Township, Lackawanna County and the allocation of costs incident thereto.

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CERTIFICATE OF SERVICE

I hereby certify that I have this day served a true copy of the foregoing document upon the participants listed below, in accordance with the requirements of 52 Pa. Code § 1.54, by first class mail, postage prepaid:

Larry Malski Esq.
Pennsylvania Northeast Regional Railroad
Authority
280 Cliff Street
Scranton, Pa. 18503
570-963-6676
lmalski@pnrra.org

Charlene Doyle
Pennsylvania Northeast Regional Railroad
Authority
280 Cliff Street
Scranton, Pa. 18503
570-963-6676
cdoyle@pnrra.org

Lorie Ransom, Superintendent
Delaware & Lackawanna Railroad
280 Cliff Street
Scranton, Pa. 18503
570-343-4580
lransom@gvtrail.com

Benjamin Martz P.E.
CDR/Maguire Engineering
3500 Winchester Road Suite 300
Allentown, Pa. 18104
610-871-1509
benmartz@cdrmaguire.com

John Pfeiffer
District Grade Crossing Engineer
PennDot
55 Keystone Industrial Park
Dunmore, Pa 18512
570-963-4995
jopfeiffer@pa.gov

Brian Jeffers, Manager
Lackawanna County
123 Wyoming Ave
Scranton PA 18503
570-963-6800
JeffersB@lackawannacounty.org

Merle Lyon, President
Elmhurst Township
112 Municipal Lane
Elmhurst Township, PA 18444
570-842-9999
worthit1@comcast.net

Jeremy Nelson
Pennsylvania American Water
2699 Stafford Ave.
Scranton, Pa. 18505
570-351-0138
Jeremy.Nelson@amwater.com

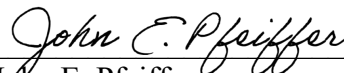
Richard Miller
Elmhurst Township Sewer Authority
112 Municipal Lane
Elmhurst Township, Pa. 18444
570-842-9999
elmhurstsewer@comcast.net

Ms. Charlotte Krupa
PPL Electric Utilities Corp.
2 North Ninth Street
Allentown, Pa. 18101-1179
610-774-6287
cakrupa@pplweb.com

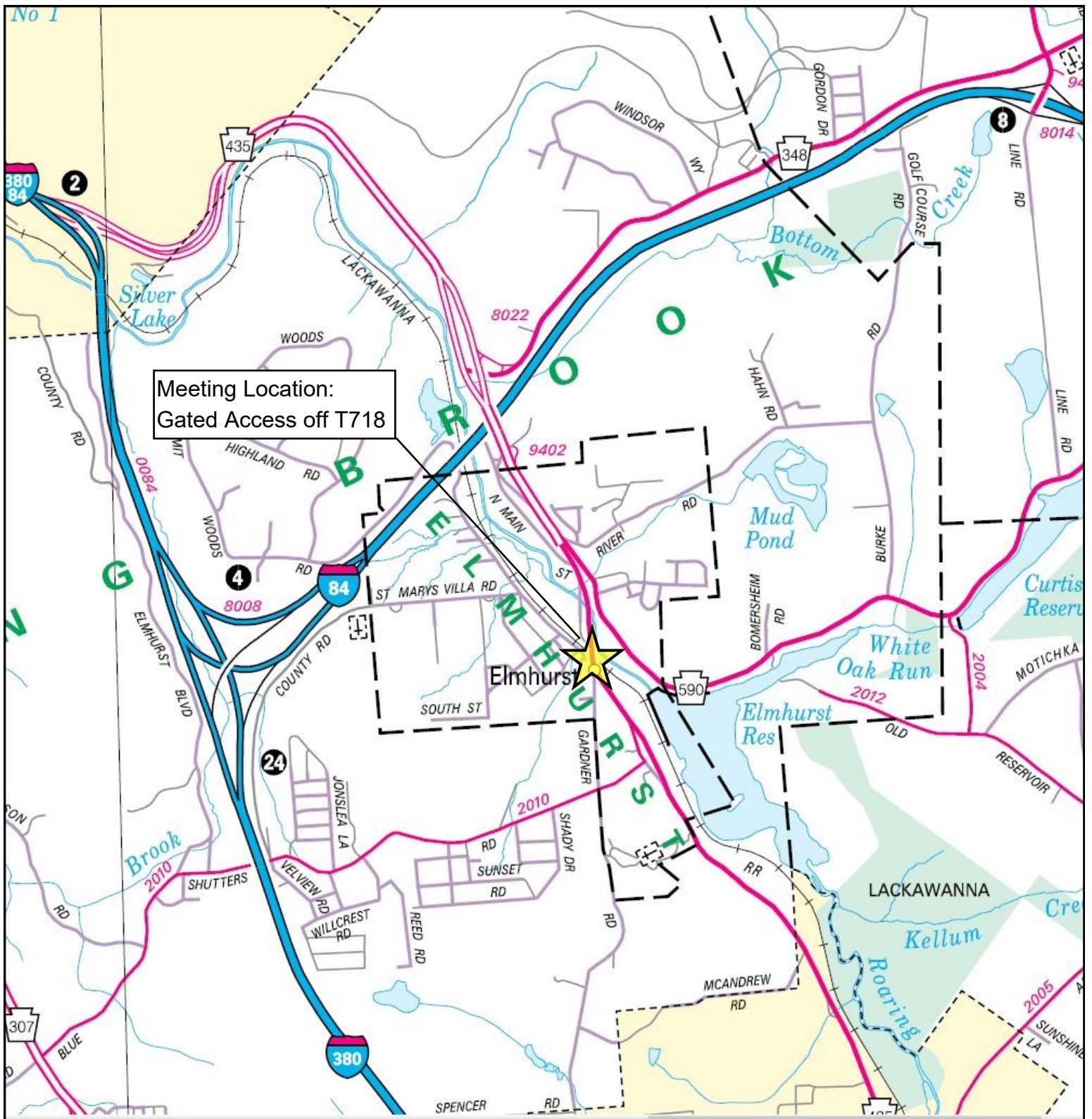
Ron Silinskie
Verizon Pennsylvania Inc.
222 South Main Street
Wilkes-Barre, Pa. 18701
570-826-4263
Ronald.w.silinkie@verizon.com

James Hall
Comcast Cable Communications
1 Comcast Way
Duryea, Pa. 18642-1114
570-471-7814
James_Hall@cable.comcast.com

Dated this 11th Day of October, 2023



John E. Pfeiffer
Grade Crossing Engineer
PennDOT District 4-0
55 Keystone Industrial Park
Dunmore, Pa. 18512



SR 435 Section 251

Bridge Replacement

MPMS # 8191

BMS # 35-0435-0220-0405 over Lackawanna County Rail Road Authority

Elmhurst Township, Lackawanna County, Pennsylvania

Project Coordinates: 41.3731, -75.5436



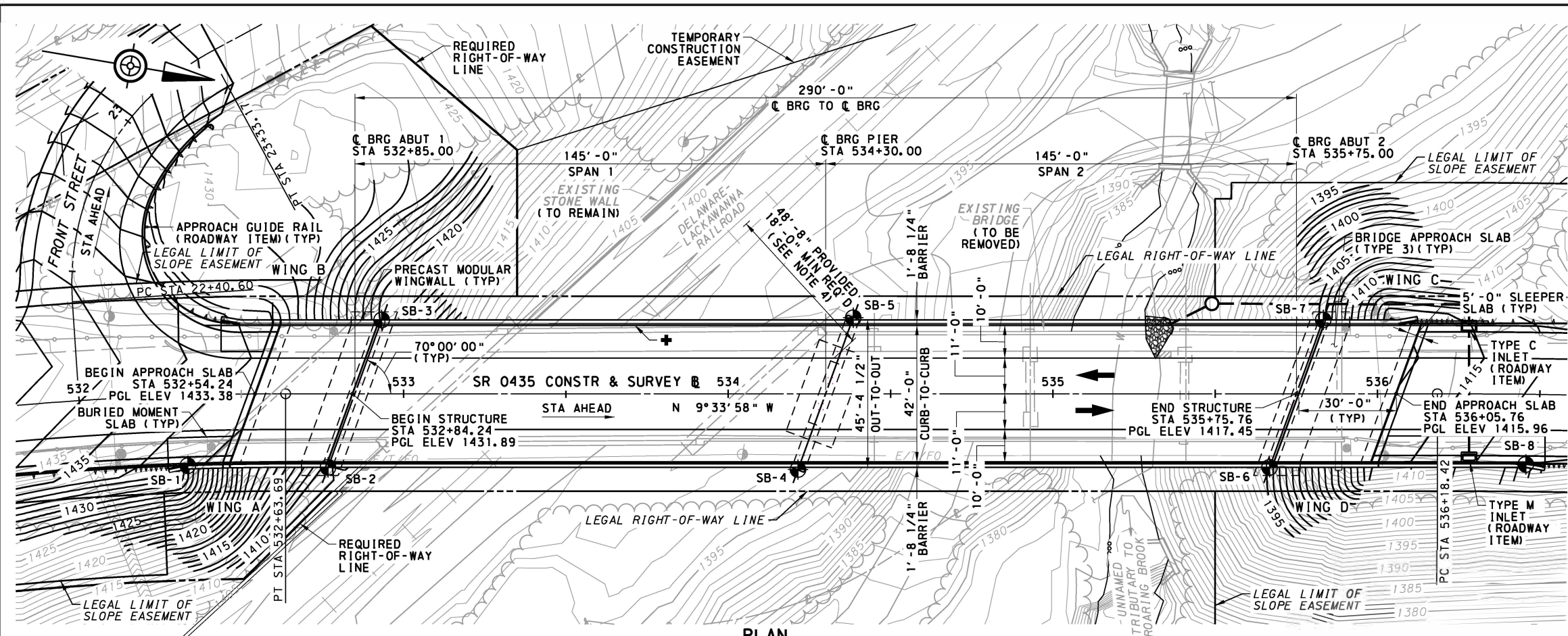
Type 10
General Highway Map
2019

Exhibit "A"
Sheet 1 of 1



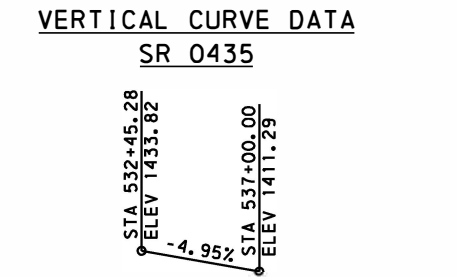
Project Location





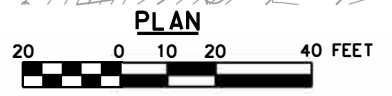
HORIZONTAL CURVE DATA
SR 0435

PI STA = 530+50.69	PI STA = 537+92.49
Δ = 26°01'00" RT	Δ = 8°41'12" RT
D = 6°00'00"	D = 2°30'00"
T = 220.61'	T = 174.07'
L = 433.61'	L = 347.47'
E = 954.93'	E = 2291.83'
SE = 5.5%	SE = 3.5%

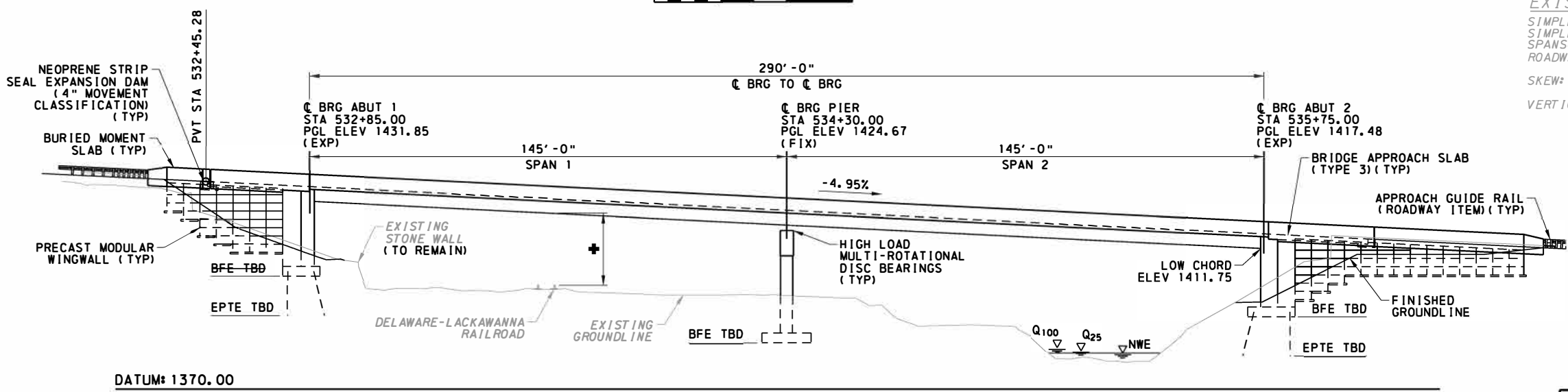


CORE BORING LOCATIONS

BORING #	STATION	OFFSET
SB-1	532+34	22' RT
SB-2	532+77	23' RT
SB-3	532+93	23' LT
SB-4	534+22	24' RT
SB-5	534+39	24' LT
SB-6	535+67	23' RT
SB-7	535+83	23' LT
SB-8	536+46	22' RT



EXISTING STRUCTURE DATA:
 SIMPLE SPAN REINFORCED CONCRETE T-BEAMS (SPANS 1, 3, 4, 5 & 6)
 SIMPLE SPAN STEEL RIVETED THRU GIRDER (SPAN 2)
 SPANS: 50'-2", 33'-6", 39'-10", 48'-0", 48'-0", 46'-6"
 ROADWAY: 33'-11" OUT-TO-OUT
 26'-0" CURB-TO-CURB
 SKEW: 42°30'00" (ABUT 1 & PIERS 1 THRU 2)
 90°00'00" (ABUT 2 & PIERS 3 THRU 5)
 VERTICAL CLR: 22'-5" (D&L RAILROAD)

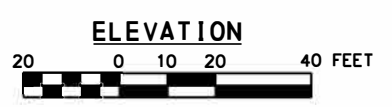


- NOTES:**
- SEE SHEET 2 FOR EXISTING TYPICAL SECTIONS.
 - SEE SHEET 3 FOR PROPOSED TYPICAL SECTION & STEEL FRAMING DETAILS.
 - SEE SHEET 4 FOR PIER ELEVATION.
 - PROVIDED HORIZONTAL CLEARANCE ACCOMMODATES A FUTURE D&L RR TRACK WITH 18 FEET MINIMUM HORIZONTAL CLEARANCE.

SR 0435 PREVIOUSLY KNOWN AS LR 0168
 BMS STR ID: 35-0435-0220-0340 ECMS PROJ: 8191 BRKEY: 20610

LEGEND

	PROPOSED BORING LOCATION
	EXISTING 1' CONTOURS
	EXISTING 5' CONTOURS
	PROPOSED 1' CONTOURS
	PROPOSED 5' CONTOURS
	POINT OF MINIMUM VERTICAL CLEARANCE: 22'-0" MIN PROVIDED & REQUIRED
	BFE BOTTOM FOOTING ELEVATION
	EPT EPT ESTIMATED PILE TIP ELEVATION
	TBD TO BE DETERMINED
	NWE NORMAL WATER ELEVATION (ELEV 1381.00±)



DESIGN DESIGNATION
 SR 0435
 HIGHWAY CLASSIFICATION =
 URBAN MAJOR COLLECTOR
 DESIGN SPEED = 45 MPH
 ADT (2023) = 6,010
 ADT (2043) = 6,010
 TRUCK % = 7

HYDRAULIC DATA
 DRAINAGE AREA 0.75 SQ MILES
 Q₂₅ FLOW 851 CFS
 Q₂₅ ELEV 1381.83
 Q₂₅ VEL 9.21 FPS
 Q₁₀₀ FLOW 1303 CFS
 Q₁₀₀ ELEV 1382.75
 Q₁₀₀ VEL 10.32 FPS
 FLOOD OF RECORD = UNKNOWN

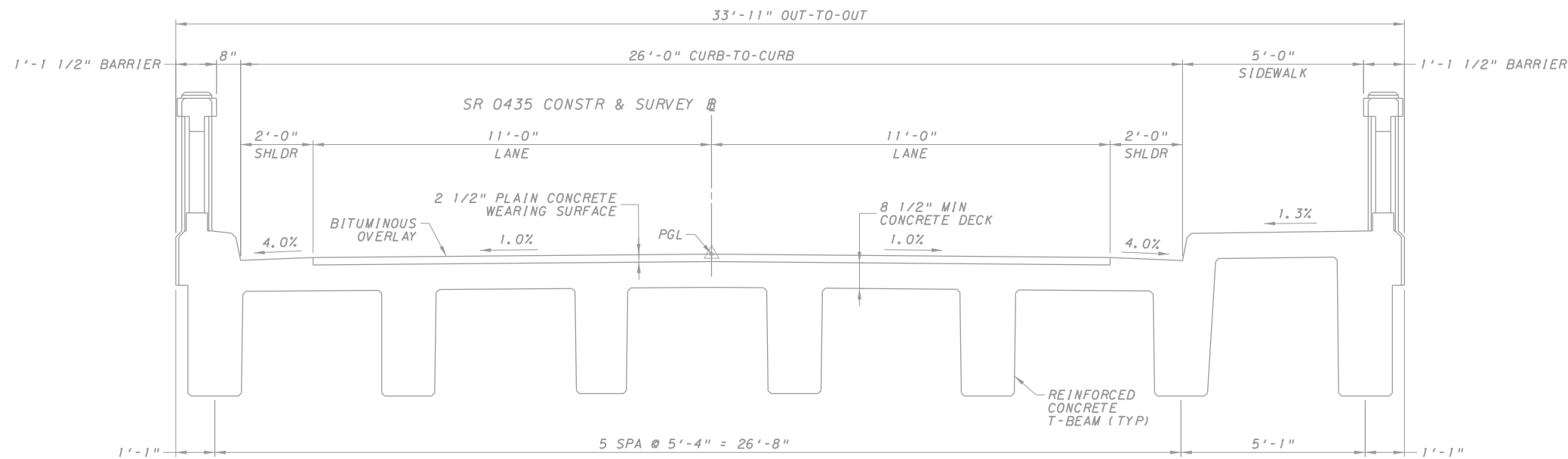
mka
 MCTISH-KUNKEL
 and associates
 McTISH, KUNKEL & ASSOCIATES
 3500 Winchester Road
 Suite 300
 Allentown, PA 18104
 phone: 610-841-2700
 fax: 610-841-2709

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 LACKAWANNA COUNTY
 SR 0435 SECTION 251
 SEGMENT 0220 OFFSET 0340
 SR 0435 STA 534+30.00
 OVER DELAWARE-LACKAWANNA RR & TRIB TO ROARING BROOK
 TWO SPAN COMP STEEL PLATE GIRDER BRIDGE
 TYPE, SIZE & LOCATION PLAN

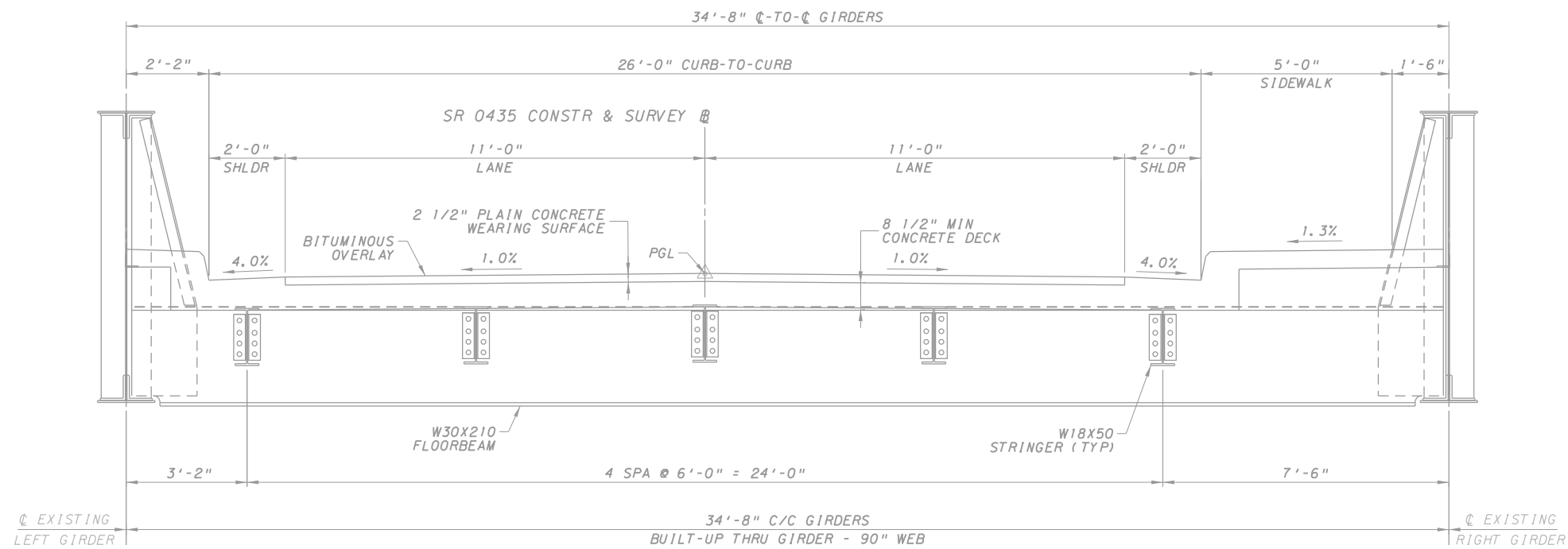
RECOMMENDED	SHEET 1 OF 4
CHIEF BRIDGE ENGINEER	S-39603

File # D:\01261\DRG\SR 435-sec 251 & 253\br-ldge\sr 435 steel 2 span.dgn
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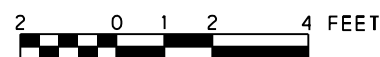
DES: BRM	CHK'D: JWB
DWG: TAR	CHK'D: BRM



EXISTING TYPICAL SECTION
(SPANS 1, 3, 4, 5 & 6)



EXISTING TYPICAL SECTION
(SPAN 2)



DESIGN SPECIFICATIONS

1. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION (2017) AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2019.
2. LIVE LOAD DISTRIBUTION TO GIRDERS IS BASED UPON DM4 DISTRIBUTION FACTOR METHOD.
3. DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.

DESIGN LIVE LOADS

1. PHL-93, P-82 AND P2016-13.
2. FATIGUE DESIGN IS BASED ON THE FOLLOWING:
ADTT 421 (2043)

DEAD LOADS

1. INCLUDES A SURFACE AREA DENSITY OF 0.030 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.
2. INCLUDES A SURFACE AREA DENSITY OF 0.015 KSF FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF THE FORM, PLUS THE WEIGHT OF THE CONCRETE IN THE VALLEYS OF THE FORMS.
3. INCLUDES A SURFACE AREA DENSITY OF 0.007 KSF FOR EPOXY OVERLAY.

GENERAL NOTES

1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH PENNSYLVANIA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS, PUBLICATION 408 (2020), AASHTO/AWS D1.5M/D1.5:2015 BRIDGE WELDING CODE (2015) AND CONTRACT SPECIAL PROVISIONS. USE AASHTO/AWS D1.1/D1.1M:2015 FOR WELDING NOT COVERED IN AASHTO/AWS D1.5M/D1.5:2015.
2. PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270 GRADE 50W (ASTM A709-50W).
3. PAINT STRUCTURAL STEEL IN ACCORDANCE WITH PUBLICATION 408, SECTION 1060 WITH FINISH COAT PAINT COLOR MATCHING FEDERAL STANDARD COLOR NUMBER 20045. PAINTING LIMITS INCLUDE ALL STRUCTURAL STEEL WITHIN 15 FEET OF CENTERLINE BEARINGS AND THE OUTSIDE FACE OF EXTERIOR GIRDERS THE ENTIRE LENGTH OF THE BRIDGE.

SR 0435 PREVIOUSLY KNOWN AS LR 0168
BMS STR ID: 35-0435-0220-0340 ECMS PROJ: 8191 BRKEY: 20610

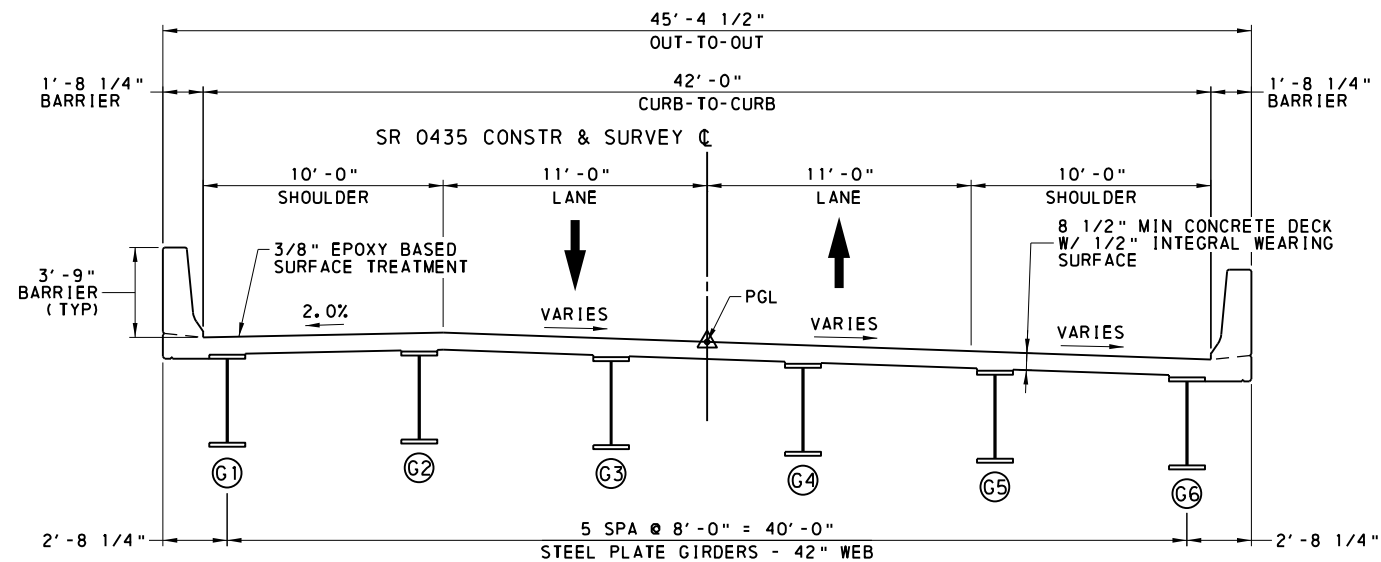
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
LACKAWANNA COUNTY
SR 0435 SECTION 251
SEGMENT 0220 OFFSET 0340
SR 0435 STA 534+30.00
OVER DELAWARE-LACKAWANNA RR & TRIB TO ROARING BROOK
TWO SPAN COMP STEEL PLATE GIRDER BRIDGE
EXISTING TYPICAL SECTIONS

RECOMMENDED _____ SHEET 2 OF 4

S-39603

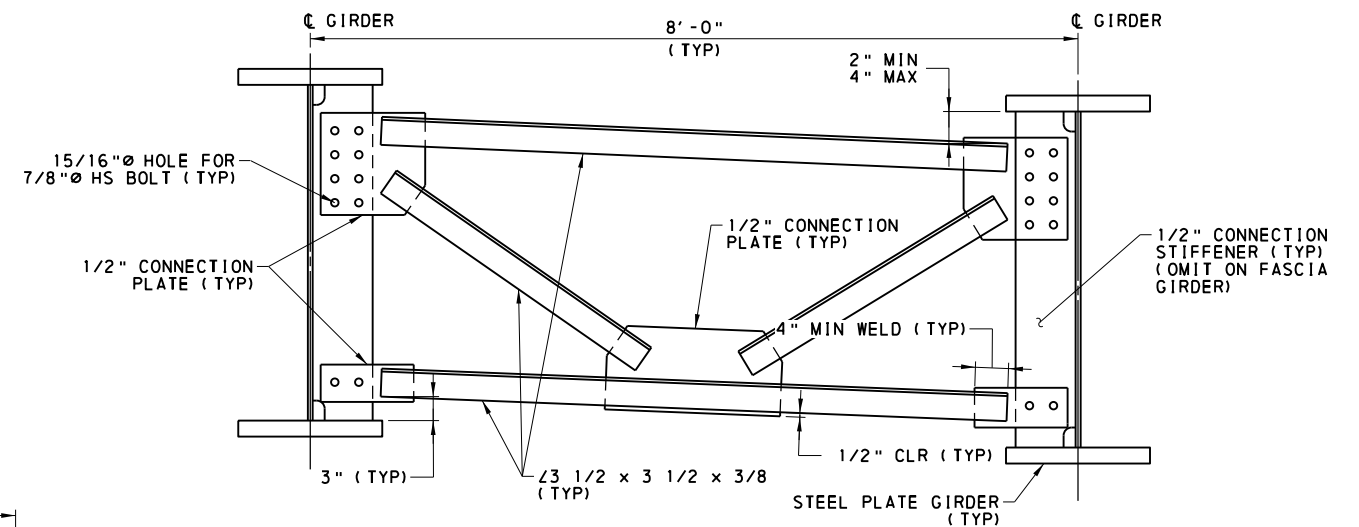
File #:\01\01261\DN\SR 435-Sec 251 & 253\BrIDGE\SR 435 SEC 251 BRIDGE TS&L-steel 2 span.dgn
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DES: BRM	CHK'D: JWB
DWG: TAR	CHK'D: BRM

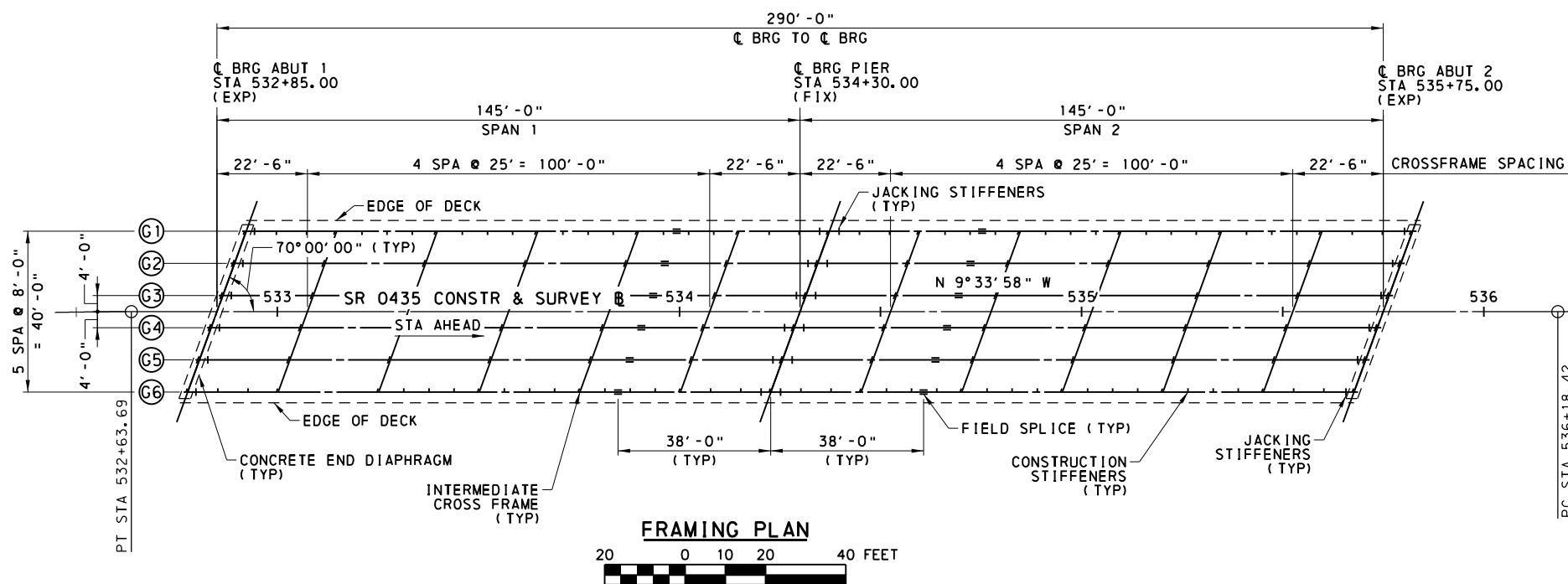


PROPOSED TYPICAL SECTION
4 0 2 4 8 FEET

CROSS SLOPES				
STATION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
532+47.00	-2.00%	5.50%	-5.50%	-5.50%
532+97.00	-2.00%	3.50%	-3.50%	-3.50%
536+50.00	-2.00%	3.50%	-3.50%	-3.50%



TYPICAL INTERMEDIATE CROSS FRAME
(ALSO USED AT C BEARINGS)
1 0 0.5 1 2 FEET



FRAMING PLAN

20 0 10 20 40 FEET

SR 0435 PREVIOUSLY KNOWN AS LR 0168
BMS STR ID: 35-0435-0220-0340 ECMS PROJ: 8191 BRKEY: 20610

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION

LACKAWANNA COUNTY
SR 0435 SECTION 251
SEGMENT 0220 OFFSET 0340
SR 0435 STA 534+30.00
OVER DELAWARE-LACKAWANNA RR & TRIB TO ROARING BROOK
TWO SPAN COMP STEEL PLATE GIRDER BRIDGE
PROPOSED TYPICAL SECTION & FRAMING

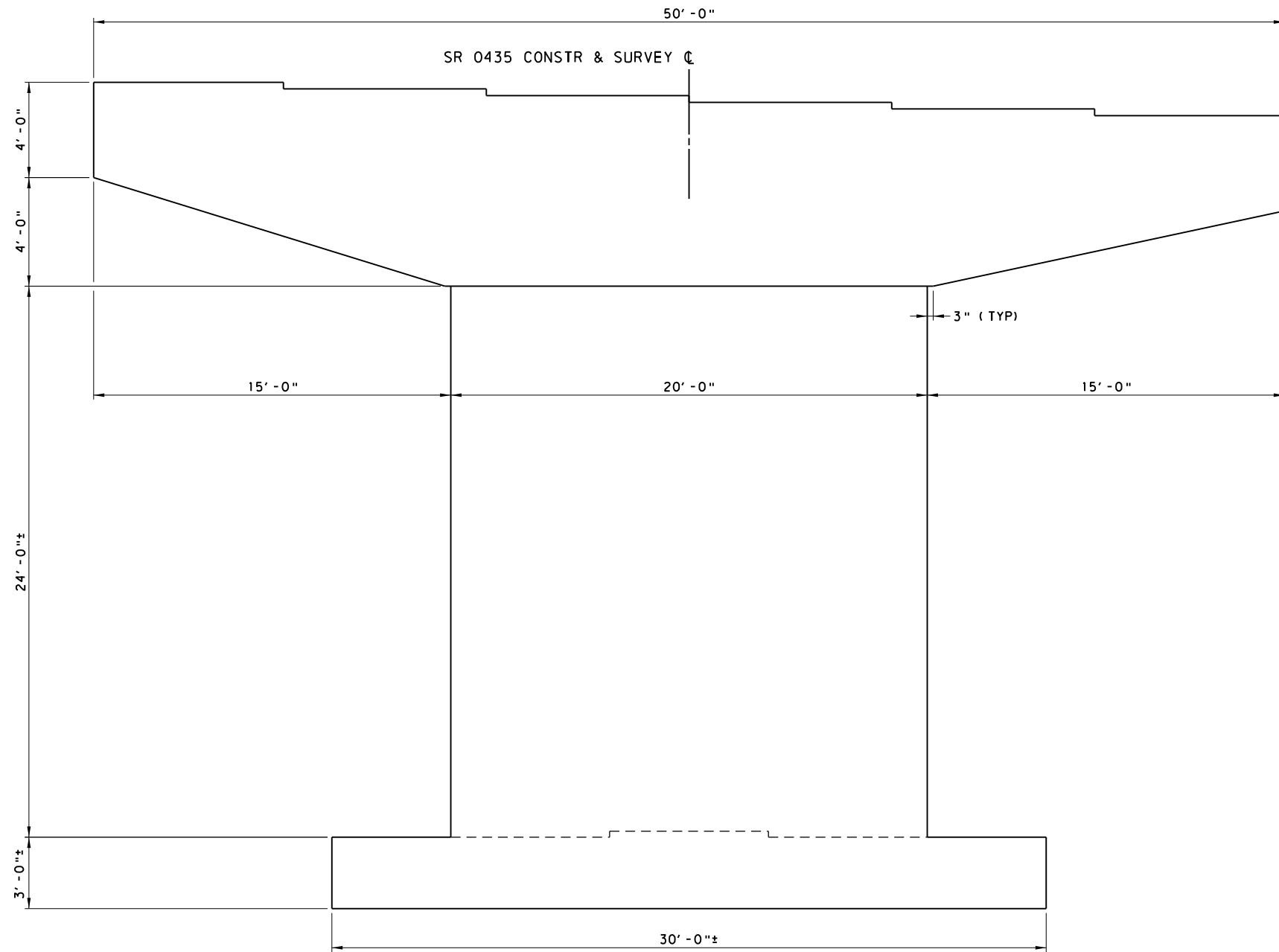
RECOMMENDED _____

SHEET 3 OF 4

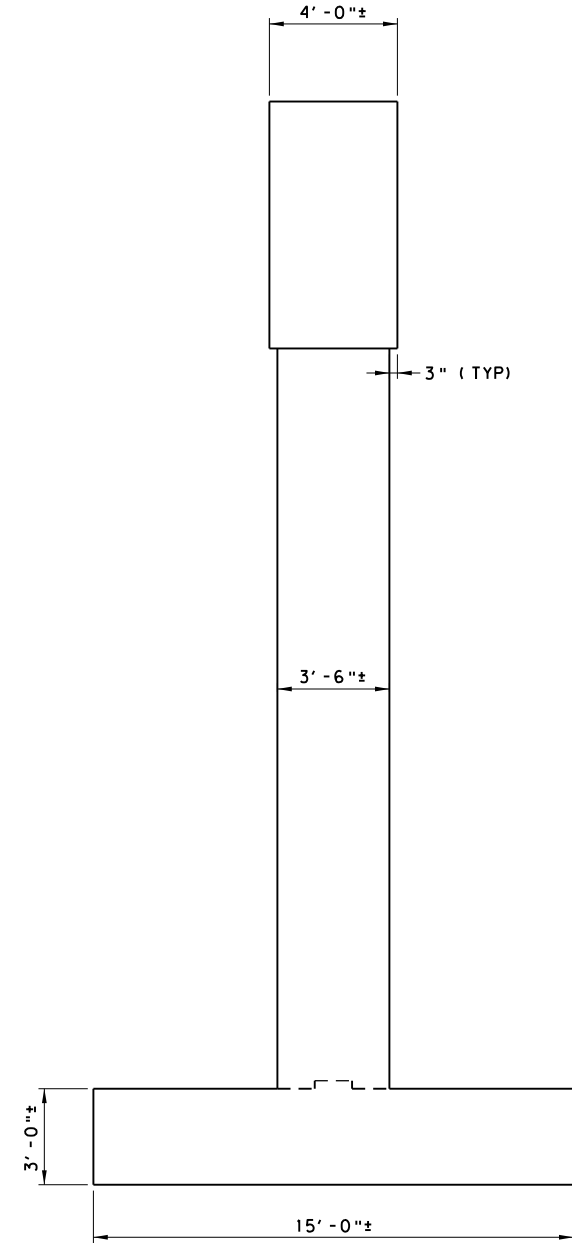
S-39603

Exhibit "B" 3 of 4

File #:\01\101261\DRG\SR 435-sec 251 & 253\Bridg\SR 435 SEC 251 BRIDGE TS&L-steel 2 span.dgn
 Model: 04 PRO PIER 1/27/2021 10:32:03 AM By: Inover



PIER ELEVATION
 3 0 1 3 6 FEET



PIER SECTION
 3 0 1 3 6 FEET

SR 0435 PREVIOUSLY KNOWN AS LR 0168
 BMS STR ID: 35-0435-0220-0340 ECMS PROJ: 8191 BRKEY: 20610

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

LACKAWANNA COUNTY
 SR 0435 SECTION 251
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 OVER DELAWARE-LACKAWANNA RR & TRIB TO ROARING BROOK
 TWO SPAN COMP STEEL PLATE GIRDER BRIDGE
 PIER ELEVATION

RECOMMENDED _____

SHEET 4 OF 4

S-39603

Exhibit "B" 4 of 4

DES: BRM	CHK'D: JWB
DWG: TAR	CHK'D: BRM

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

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Application
Docket No. _____

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VERIFICATION

I, John E. Pfeiffer, Grade Crossing Engineer, hereby state that the facts above set forth are true and correct to the best of my knowledge, information, and belief and that I expect to be able to prove the same at a hearing held in this matter. I understand that the statements herein are made subject to the penalties of 18 Pa.C.S. §4904 (relating to unsworn falsification to authorities).

Date: October 11, 2023



John E. Pfeiffer
Grade Crossing Engineer
PennDOT District 4-0
55 Keystone Industrial Park
Dunmore, Pa. 18512