



ENGINEERING DEPARTMENT
Pennsylvania Turnpike Commission
PO Box 67676, Harrisburg PA 17106-7676
717.939.9551

July 29, 2022

Ms. Rosemary Chiavetta
Secretary
Commonwealth of Pennsylvania
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265

DATE OF DEPOSIT

JUL 29 2022

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

**Re: Mon-Fayette Expressway Project
SR 51 to I-376, Section 53B
MF-416 & MF-417**

Application of the Pennsylvania Turnpike Commission (PTC) for approval to construct new above grade public crossings by the installation of multi-span dual steel girder bridges where mainline of SR 43 Mon-Fayette Expressway crosses a single track of the Union Railroad, as well as Thompson Run, and Homestead-Duquesne Road; PTC will own and maintain the dual overhead bridges located in West Mifflin Borough, Allegheny County, Pennsylvania.

Dear Ms. Chiavetta:

Enclosed is an original application to the Public Utility Commission, including Exhibits A through E, a verification form attesting to the veracity of the information contained in the application, and a certificate of service indicating that copies of the application were mailed to each of the organizations listed. It was requested that objections raised by any party of interest be forwarded to the PUC, in writing, within two weeks from the date that each party received its copy of the application.

The Pennsylvania Turnpike Commission is also prepared to attend a field conference and to provide additional information as requested. If you have any questions, please call Mr. Brian Mostek at 717-831-7101, or by email at bmostek@paturnpike.com.

Sincerely,

Kevin W. Scheurich

Kevin Scheurich, P.E.
Assistant Chief Engineer



America's First Superhighway
www.paturnpike.com



ENGINEERING DEPARTMENT

Pennsylvania Turnpike Commission
PO Box 67676, Harrisburg PA 17106-7676
717.939.9551

ATTACHMENTS:

- Exhibit A – Location Map
- Exhibit B – Proposed Bridge Type, Size, and Location
- Exhibit C – Proposed Roadway Plan and Typical Section
- Exhibit D – Right-of-Way plans (excerpt)
- Exhibit E – Form D-4279

cc: K. Scheurich
J. McLaughlin - w/encl.
G. Rollman
L. Noll-May – w/encl.
J. Stump – w/encl.
J. Bintrim - HDR – w/encl.
Matt Parrish – Pennoni - w/encl.



**APPLICATION FOR APPROVAL OF THE CONSTRUCTION, ALTERATION,
RELOCATION, ABOLITION, OR SUSPENSION OF ANY CROSSING AT GRADE OR
ABOVE OR BELOW GRADE
(Public Utility Law, Section 2702 of Title 66)**

**BEFORE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Pennsylvania Turnpike Commission (PTC) for approval to construct new above grade public crossings by the installation of multi-span dual steel girder bridges where mainline of SR 43 Mon-Fayette Expressway crosses a single track of the Union Railroad, as well as Thompson Run, and Homestead-Duquesne Road; PTC will own and maintain the dual overhead bridges located in West Mifflin Borough, Allegheny County, Pennsylvania.

Application
Docket No. _____

DATE OF DEPOSIT

JUL 29 2022

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

To Pennsylvania Public Utility Commission:

1. The name and address of applicant are the Pennsylvania Turnpike Commission, P.O. Box 67676, Harrisburg, Pennsylvania, 17106-7676.
2. The name and address of applicant's attorney are Doreen McCall, Chief Counsel, Pennsylvania Turnpike Commission, P.O. Box 67676, Harrisburg, Pennsylvania 17106-7676.
3. The Pennsylvania Turnpike Commission, by authority of the Act of Assembly approved May 21, 1937, P.L. 774 and by the authority of Act of Assembly approved September 30, 1985, P.L. 240 has proceeded with the design of the Mon-Fayette Expressway, S.R. 0043, which extends from the existing terminus at S.R. 51 in Jefferson Hills, Allegheny County, to a point of connection with I-376 in Monroeville, Allegheny County.
4. It is desirable to construct new dual bridges, Bridges MF-416 & MF-417, which will span over the Union Railroad, as well as Thompson Run, and Homestead-Duquesne Road as part of Pennsylvania Turnpike's Mon-Fayette Expressway, S.R. 43. The Mon-Fayette Expressway project involves the construction of a new 4-lane limited access toll road from the existing terminus at S.R. 51 to I-376 in Monroeville. See Exhibit A – Location Map. The new dual bridges will be owned and maintained by the Pennsylvania Turnpike Commission.

The Pennsylvania Turnpike Commission hereby requests that approval be granted for the construction of these new crossings.

Bridges MF-416 & MF-417 will be a five span, steel structures, 995'- 0" long. The proposed out-to-out width of the southbound bridge is 51'- 4 1/2" providing two 12'- 0" traffic lanes, a 12'- 0" left shoulder, and a 12'-0" right shoulder while the northbound bridge is 45'-10 1/2" out-to-out with a 6'-0" left shoulder. The proposed minimum vertical clearance from the tracks is

107'-8" +/- . The proposed minimum horizontal clearances are 65'-8" from center of existing track to Pier 2 at Bridge MF-417. See Exhibit B – Proposed Bridge Type, Size, and Location; Exhibit C – Proposed Roadway Plan and Typical Section; and Exhibit E – Form D-4279 (Railroad Crossing Data).

The Pennsylvania Turnpike Commission also hereby requests that the PUC appropriate the *property necessary for the new railroad crossing over the property of the Union Railroad, being aerial easements and temporary construction easements for pier and superstructure construction.* Attached as Exhibit D are Right-of-Way Plans (excerpts) that describe and depict the required property.

5. The Pennsylvania Turnpike Commission has initiated contact with the Union Railroad who is affected by the proposed crossing. 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.
6. The proposed dual bridges, MF-416 and NF-417, are located just east of Thompson Run Road (SR 2052) intersection with Homestead-Duquesne Road, or just west of the URR wye. The average daily traffic, in 2045, is projected as follows:

<u>Northbound</u>	<u>Southbound</u>	<u>Total</u>
16,000	17,700	33,700

The percentage of trucks is estimated to be 6%.

7. The funding for this project will be 100% PA Turnpike Commission funds. The estimated overall construction cost for the proposed Mon-Fayette Expressway project is approximately \$3 billion. The estimated construction cost for Section 53B2 is \$170 million. The estimated construction cost for Bridges MF-416 & MF-417 is approximately \$54 million.
8. The proposed bridge construction is necessary for improved accessibility, growth, and development of the region. The project will ultimately improve traffic flow and safety for increased mobility.
9. A conference of all parties of interest should be held to discuss the proposed improvements.

Wherefore, applicant respectfully requests the Public Utility Commission to approve this application:

Date: 7/28/22

Kevin W. Scheurich

Kevin Scheurich, P.E.
Assistant Chief Engineer – Design

**BEFORE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Pennsylvania Turnpike Commission (PTC) for approval to construct new above grade public crossings by the installation of multi-span dual steel girder bridges where mainline of SR 43 Mon-Fayette Expressway crosses a single track of the Union Railroad, as well as Thompson Run, and Homestead-Duquesne Road; PTC will own and maintain the dual overhead bridges located in West Mifflin Borough, Allegheny County, Pennsylvania.

Application
Docket No. _____

DATE OF DEPOSIT

JUL 29 2022

VERIFICATION

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

I, Kevin Scheurich, P.E., Assistant Chief Engineer – Design, hereby state that the facts above set forth are true 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: 7/28/22

Kevin W. Scheurich

Kevin Scheurich, P.E.
Assistant Chief Engineer – Design

Exhibit A – Location Map

Mon-Fayette Expressway Project

SR 51 to I-376, Section 53B2

MF-416 & MF-417

DATE OF DEPOSIT

JUL 29 2022

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

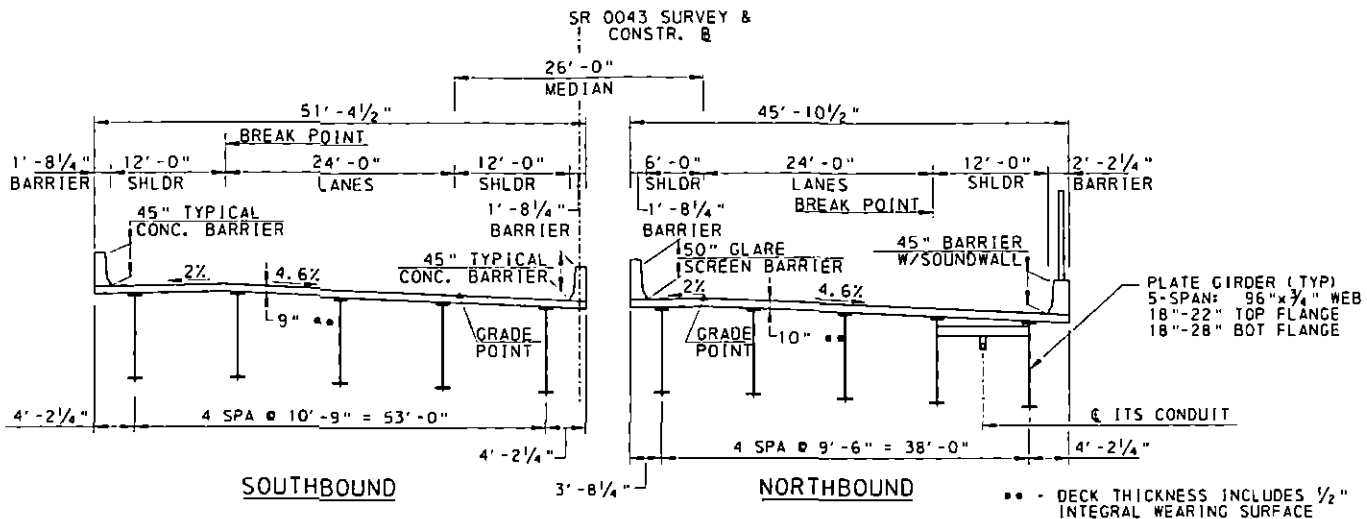
Exhibit B – Proposed Bridge Type, Size & Location

*Mon-Fayette Expressway Project
SR 51 to I-376, Section 53B2
MF-416 & MF-417*

DATE OF DEPOSIT

JUL 29 2022

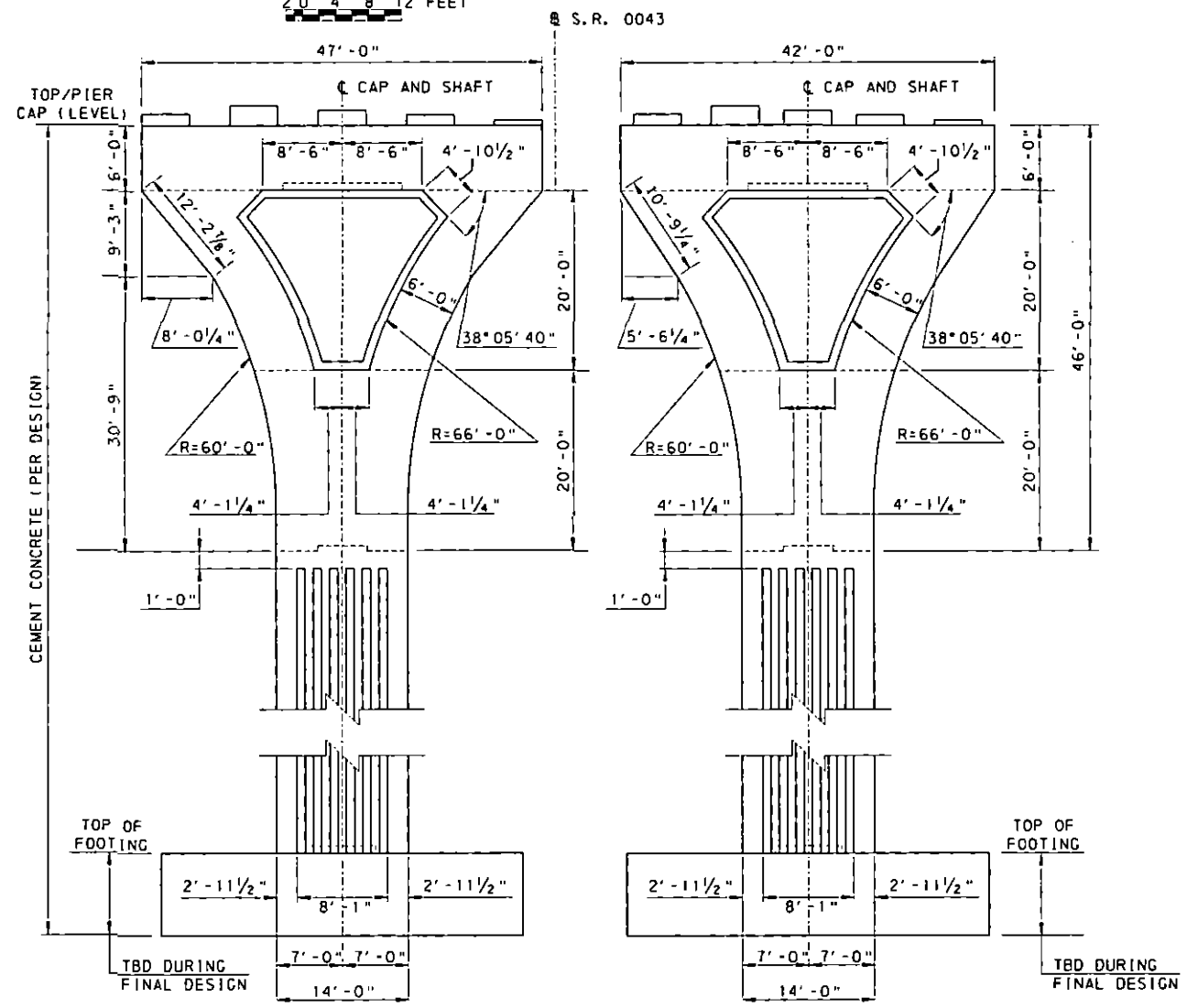
PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU



SOUTHBOUND

NORTHBOUND

TYPICAL SECTION

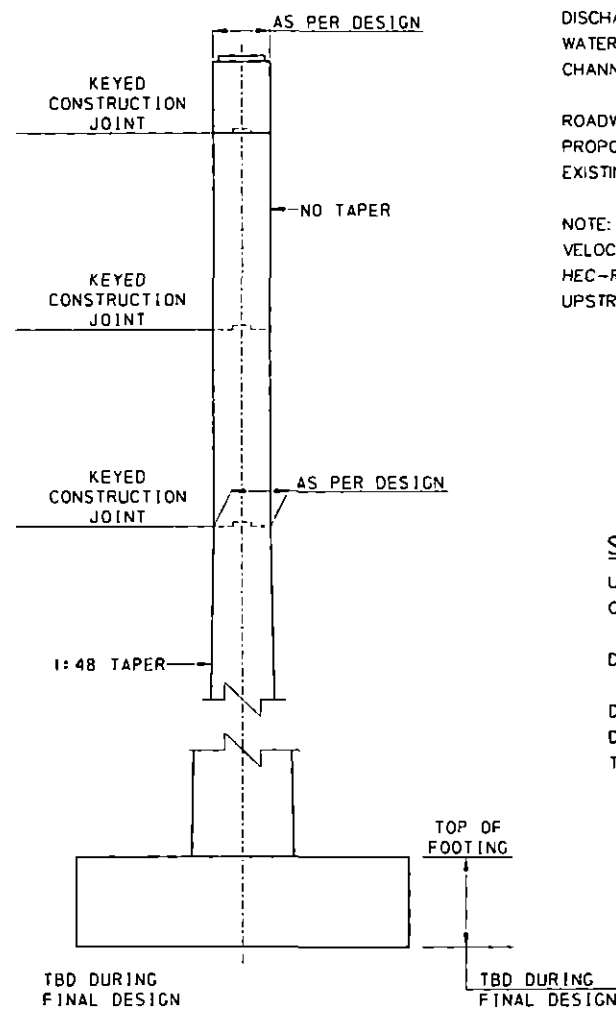


MF-417 PIER ELEVATION

MF-416 PIER ELEVATION

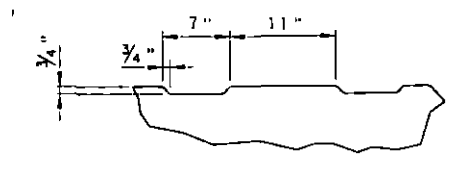
NTS

NTS



PIER PROFILE

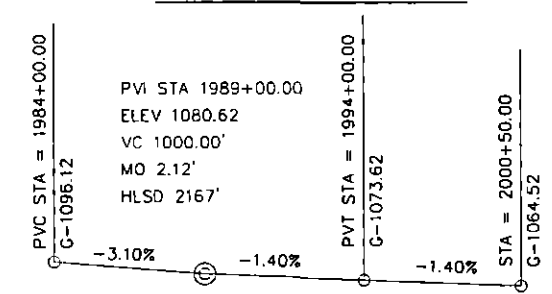
NTS



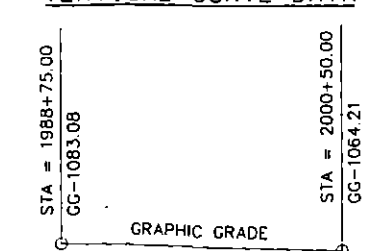
PIER COLUMN RUSTICATION DETAIL

NTS

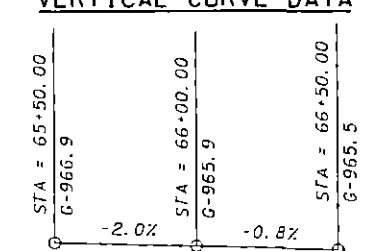
SR 0043 (SB) VERTICAL CURVE DATA



SR 0043 (NB) VERTICAL CURVE DATA



HOMESTEAD-DUQUESNE ROAD VERTICAL CURVE DATA



HYDRAULIC DATA

DRAINAGE AREA = 1,690 AC

50-YEAR FLOOD (PENNDOT/PA DEP DESIGN STORM)
DISCHARGE = 2028.14 CFS
WATER SURFACE ELEVATION = 925.98
CHANNEL VELOCITY = 10.69 FPS

100 YEAR STORM (FEMA)
DISCHARGE = 2436.03 CFS
WATER SURFACE ELEVATION = 926.75
CHANNEL VELOCITY = 11.42 FPS

ROADWAY OVERTOPPING FREQUENCY
PROPOSED = N/A
EXISTING = N/A

NOTE: WATER SURFACE ELEVATION AND VELOCITY INFORMATION TAKEN FROM HEC-RAS RIVER STATION B143, IMMEDIATELY UPSTREAM OF THE BRIDGE.

SR 0043 HORIZONTAL CURVE DATA

SR 0043 SURVEY & CONSTR Q
PI STA 2005+34.75
Δ = 60°51'53" RT
Δc = 57°02'43" RT
Dc = 2'00'37"
Rc = 2850.00'
Lc = 2837.53'
Os = 1°54'35"
Ls = 190.00'
Ts = 1769.56'
E = 456.01'
k = 95.00'
p = 0.53'
Xc = 189.98'
Yc = 2.11'
LT = 126.67'
ST = 63.34'
LC = 189.99'
TS STA 1987+95.88
SC STA 1989+85.88
CS STA 2018+23.41
ST STA 2020+13.41
SE = 4.6%

HOMESTEAD-DUQUESNE ROAD HORIZONTAL CURVE DATA

HOMESTEAD-DUQUESNE ROAD IS ON A TANGENT ALIGNMENT BEARING N83°19'53"W

SR 0043 TRAFFIC DATA

URBAN LIMITED ACCESS FREEWAY
CURRENT ADT - 9,800 (2025) NB
- 10,900 (2025) SB
DESIGN YEAR ADT - 11,100 (2045) NB
- 12,600 (2045) SB

DHV - TBD
D - 53%
T - 9.5%

HOMESTEAD-DUQUESNE ROAD TRAFFIC DATA

URBAN LOCAL ROAD
CURRENT ADT - 3223 (2025)
DESIGN YEAR ADT - 3536 (2045)

DHV - 354
D - 63%
T - 3.0%

PREPARED BY:
CDR MAGUIRE INC.
D.L. CLARK BUILDING, SUITE 610
503 MARTINDALE STREET
PITTSBURGH, PA 15212

PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO.	
NETWORK NUMBER:	
FILE NAME:	
DRAWING TYPE: 2G	
STRUCTURE NUMBER: MF416 - MF417	
SCALE:	0 40 80 FEET

CONSTRUCTION OF MON-FAYETTE EXPRESSWAY
SR 0043 SEC 53B2
MP X-XX.XX TO MP X-XX.XX

DISTRICT: 1 COUNTY: ALLEGHENY
TOWNSHIP/BOROUGH: WEST MIFFLIN BOROUGH

MF 416 - MF 417
(PREVIOUSLY KNOWN AS MF 438 - MF 439)
FINAL TYPE, SIZE, & LOCATION
TYPICAL SECTION, PIER ELEVATION,
AND CURVE DATA

DRAWING: 2 OF 4
SHEET: OF

GENERAL NOTES:

- DESIGN SPECIFICATIONS: AASHTO LRFD BRIDGE DESIGN SPECIFICATION, 2014, AND AS SUPPLEMENTED BY COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION DESIGN MANUAL, PART 4, STRUCTURES, APRIL 2015 EDITION INCLUDING LATEST REVISIONS.
- LIVE LOAD DISTRIBUTION TO BEAMS IS BASED UPON DM-4 DISTRIBUTION FACTORS.
- DESIGN IS IN ACCORDANCE WITH THE LRFD METHOD.
- DESIGN LIVE LOADS: PHL-93 OR P-82 (204 KIP PERMIT LOAD)
- FATIGUE DESIGN IS BASED ON THE FOLLOWING:
STEEL STRUCTURES: ADTT 599 (2045)
(SINGLE LANE, ONE-DIRECTIONAL).
- DEAD LOADS:
INCLUDES SURFACE AREA DENSITY OF 0.030 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.

INCLUDES A SURFACE AREA DENSITY OF 0.015 KSF FOR PERMANENT METAL DECK FORMS WHICH TAKES INTO ACCOUNT THE WEIGHT OF FORM, PLUS THE WEIGHT OF THE CONCRETE IN VALLEYS OF FORMS.

INCLUDES 0.8125 KLF ON NORTHBOUND RIGHT PARAPET FOR SOUND BARRIER WALL.
- PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408/2016, AASHTO/AWS D1.5M/D1.5 2008 BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS.
- PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M 270, GRADE 50W (ASTM A709, GRADE 50W) DESIGNATION, EXCEPT WHEN NOTED OTHERWISE.
- PROVIDE 2 IN. CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
- USE CLASS AAAP CEMENT CONCRETE IN DECK SLAB.
- USE CLASS AA CEMENT CONCRETE IN CURBS, APPROACH SLABS, ABUTMENT BACKWALLS, CHEEK WALLS, AND U-WINGS ABOVE THE CONSTRUCTION JOINT.
- USE CLASS AA WHITE CEMENT CONCRETE IN BARRIERS ON STRUCTURE AND WINGWALLS.
- USE CLASS A CEMENT CONCRETE IN PIERS, ABUTMENTS BELOW BRIDGE SEAT, PÉDESTALS, WINGWALLS, AND FOOTINGS.
- A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE COMMISSION.

BORING NO.	STATION	OFFSET
B-257*	1990+03	147' LT
B-258	1990+09	2' LT
B-259	1990+14	124' RT
B-260*	1990+23	303' RT
B-261	1991+83	76' RT
B-262	1995+00	31' LT
B-263	1994+65	107' RT
B-264*	1998+98	176' LT
B-265*	1999+58	197' RT
MF416-1	1989+14	50' RT
MF416-2	1989+43	50' RT
MF416-3	1989+43	12' RT
MF416-4	1991+28	50' RT
MF416-5	1991+28	12' RT
MF416-6	1993+33	50' RT
MF416-7	1993+33	12' RT
MF416-8	1995+78	50' RT
MF416-9	1995+78	12' RT
MF416-10	1997+83	50' RT
MF416-11	1997+83	12' RT
MF416-12	1999+38	50' RT
MF416-13	1999+38	12' RT
MF416-14	1999+68	50' RT
MF416-15	1998+50	CL
MF417-1	1989+15	50' LT
MF417-2	1989+43	50' LT
MF417-3	1989+43	12' LT
MF417-4	1991+28	50' LT
MF417-5	1991+28	12' LT
MF417-6	1993+33	50' LT
MF417-7	1993+33	12' LT
MF417-8	1995+78	50' LT
MF417-9	1995+78	12' LT
MF417-10	1997+83	50' LT
MF417-11	1997+83	12' LT
MF417-12	1999+38	50' LT
MF417-13	1999+38	12' LT
MF417-14	1999+68	50' LT
TS416-1	1991+56	30' RT
TS416-2	1993+11	30' RT
TS416-3	1993+55	30' RT
TS416-4	1995+53	26' RT
TS416-5	1996+03	26' RT
TS416-6	1997+60	30' RT
TS417-1	1991+56	30' LT
TS417-2	1993+11	30' LT
TS417-3	1993+55	30' LT
TS417-4	1995+53	40' LT
TS417-5	1996+03	26' LT
TS417-6	1997+60	30' LT
BF-356	1989+00	CL

OFFSETS MEASURED FROM C SR 0043
 ⊕ DENOTES PROPOSED BORING LOCATION
 ● DENOTES EXISTING BORING LOCATION
 * DENOTES BEYOND LIMITS OF PLAN VIEW
TEST BORING LOCATION TABLE

BRIDGE LOAD RATINGS
 DESIGN YEAR ADTT 1197 (2045) (ONE-DIRECTIONAL)

WITH FWS		5-SPAN COMPOSITE CURVED STEEL PLATE GIRDERS					
		PHL-93	P-82	ML-80	HS20	H20	TK527
INVENTORY RATING (IR)	CONTROLLING GIRDER	INT	-----	INT	INT	INT	INT
	SPAN	4	-----	1	4	4	1
	DIST. FACTOR	0.835	-----	0.831	0.835	0.835	0.831
	LOCATION (FT.)	1.0 L	-----	0.40 L	1.0 L	1.0 L	0.40 L
	LIMIT STATE	STR-I	-----	SERV-II	STR-I	STR-I	SERV-II
RATING FACTOR	1.064 M	-----	2.002 M	1.436 M	1.436 M	1.912 M	
OPERATING RATING (OR)	CONTROLLING GIRDER	INT	INT	INT	INT	INT	INT
	SPAN	4	1	1	4	4	1
	DIST. FACTOR	0.835	0.831	0.831	0.835	0.835	0.831
	LOCATION (FT.)	1.0 L	0.40 L	0.40 L	1.0 L	1.0 L	0.40 L
	LIMIT STATE	STR-IA	SERV-IIB	SERV-IIA	STR-II	STR-II	SERV-IIA
RATING FACTOR	1.383 M	1.273 M	2.603 M	1.867 M	1.867 M	2.486 M	

WITHOUT FWS		5-SPAN COMPOSITE CURVED STEEL PLATE GIRDERS					
		PHL-93	P-82	ML-80	HS20	H20	TK527
INVENTORY RATING (IR)	CONTROLLING GIRDER	INT	-----	INT	INT	INT	INT
	SPAN	4	-----	1	4	4	1
	DIST. FACTOR	0.835	-----	0.831	0.835	0.835	0.831
	LOCATION (FT.)	1.0 L	-----	0.40 L	1.0 L	1.0 L	0.40 L
	LIMIT STATE	STR-I	-----	SERV-II	STR-I	STR-I	SERV-II
RATING FACTOR	1.195 M	-----	2.190 M	1.614 M	1.614 M	2.091 M	
OPERATING RATING (OR)	CONTROLLING GIRDER	INT	INT	INT	INT	INT	INT
	SPAN	4	1	1	4	4	1
	DIST. FACTOR	0.835	0.831	0.831	0.835	0.835	0.831
	LOCATION (FT.)	1.0 L	0.40 L	0.40 L	1.0 L	1.0 L	0.40 L
	LIMIT STATE	STR-IA	SERV-IIB	SERV-IIA	STR-II	STR-II	SERV-IIA
RATING FACTOR	1.554 M	1.392 M	2.847 M	2.098 M	2.098 M	2.719 M	


CRITICAL MEMBER: INTERIOR BEAM
 MAX MOMENT CAP. (kip-ft): SPAN 1 = 39239.79 SPAN 4 = 46995.07
 LOCATION: SPAN 1 = 0.77L SPAN 4 = 0.25L
 MAX SHEAR CAP. (kips): SPAN 1 = 2088 SPAN 4 = 2088
 LOCATION: SPAN 1 = 0.0L SPAN 4 = 0.0L

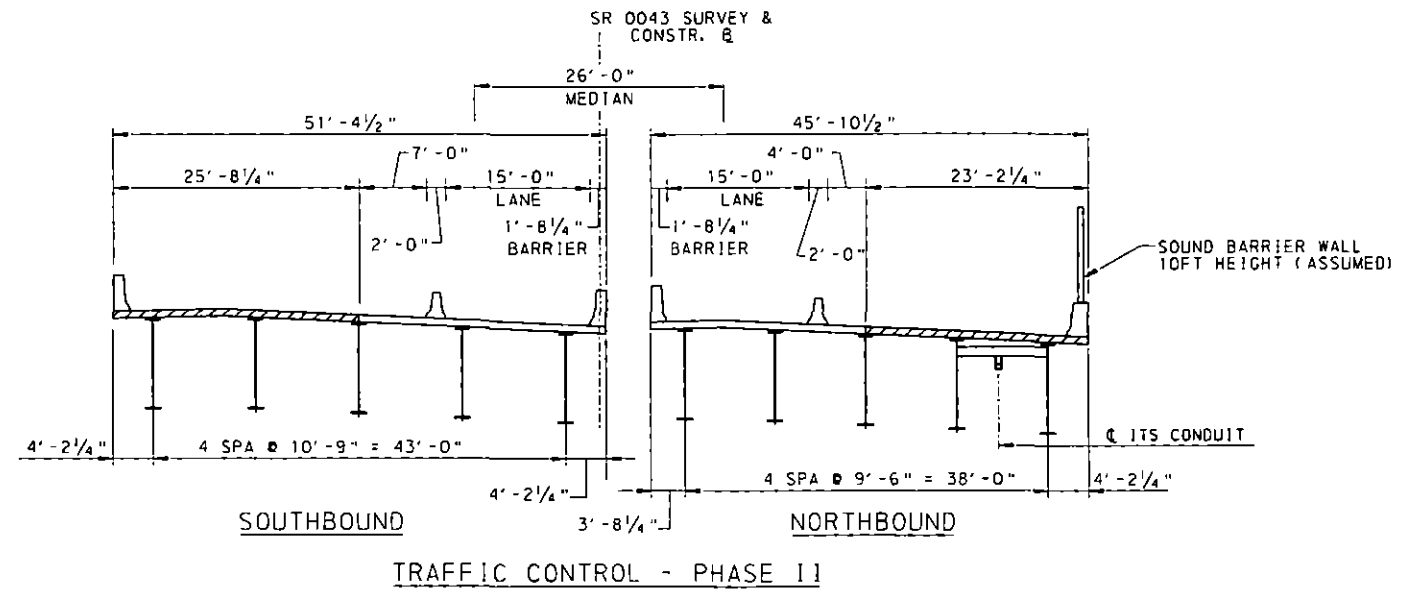
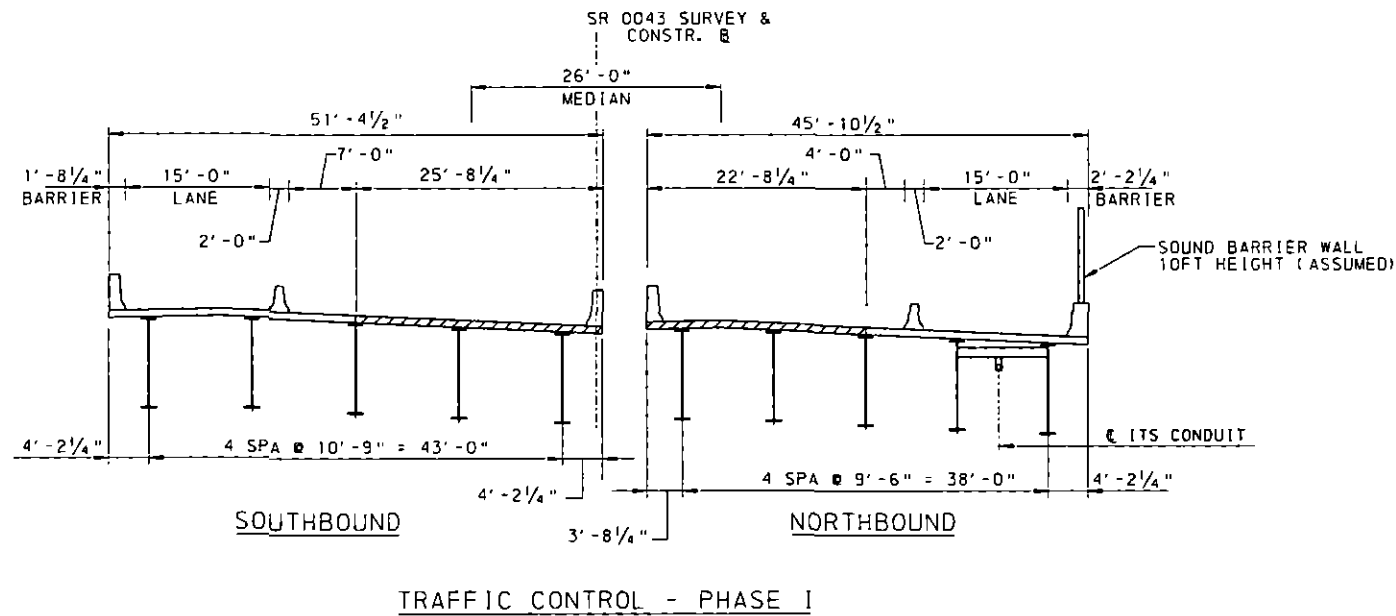
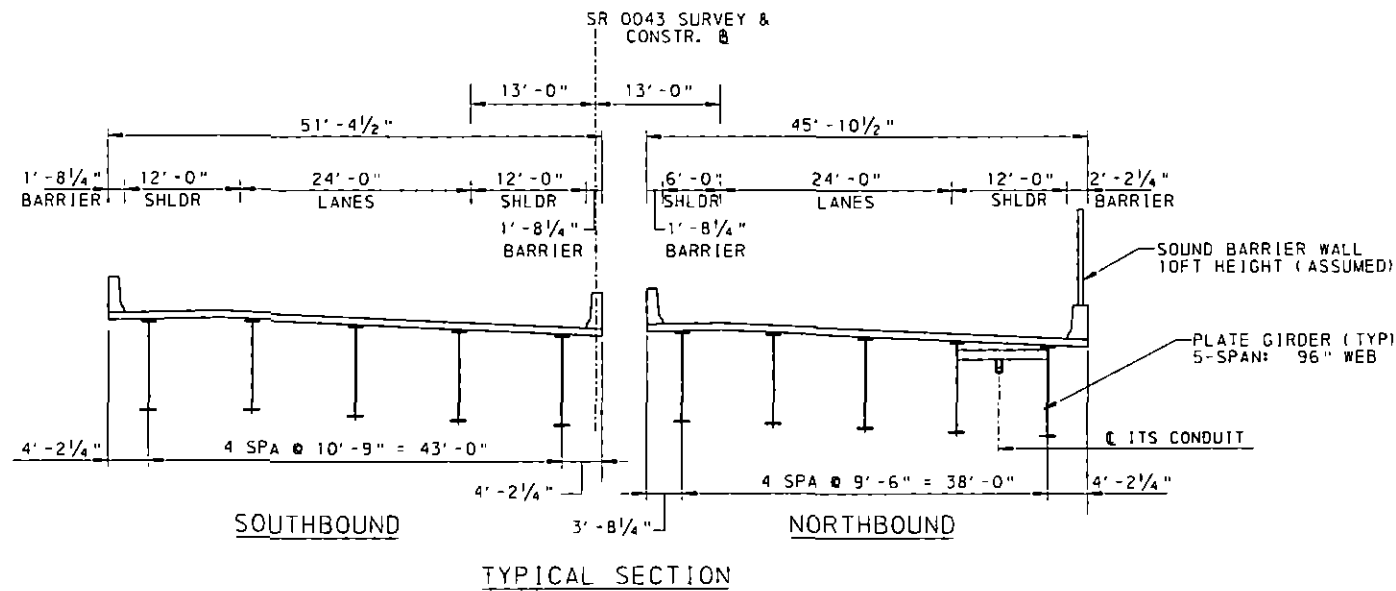
DATA IS TAKEN FROM PENNDOT'S LRFD STEEL GIRDER DESIGN AND RATING OUTPUT (STRFRD V2.4.0.0)
 M - DENOTES THAT FLEXURE CONTROLS THE RATING FACTOR
 V - DENOTES THAT SHEAR CONTROLS THE RATING FACTOR
 SERV - DENOTES SERVICE LIMIT STATE
 STR - DENOTES STRENGTH LIMIT STATE


COST SUMMARY: (TOTAL COST INCLUDES 20% CONTINGENCY BUT NO MOBILIZATION)

STRUCTURE	SUBSTRUCTURE COST	SUPERSTRUCTURE DECK COST	SUPERSTRUCTURE BEAM COST	TOTAL COST	TOTAL COST PER S.F.
NORTHBOUND (MF 416)	\$12,322,980	\$4,219,239	\$6,743,273	\$23,285,492	\$514
SOUTHBOUND (MF 417)	\$12,376,968	\$4,089,137	\$6,609,118	\$23,075,223	\$450

- THE DIFFERENCE IN COST BETWEEN MF 416 AND MF 417 IS DUE TO THE THICKER DECK SLAB AND HEAVIER GIRDERS REQUIRED TO SUPPORT THE ADDED WEIGHT OF THE SOUND BARRIER WALL ON THE NORTHBOUND RIGHT BARRIER.
- THE COST DOES NOT INCLUDE THE SOUND BARRIER WALL POSTS AND PANELS.

PREPARED BY: CDR MAGUIRE INC. D.L. CLARK BUILDING, SUITE 810 503 MARTINDALE STREET PITTSBURGH, PA 15212 PREPARED FOR: THE PENNSYLVANIA TURNPIKE COMMISSION		WBS NO.				NETWORK NUMBER: FILE NAME: DRAWING TYPE: 2G STRUCTURE NUMBER: MF416 - MF417	CONSTRUCTION OF MON-FAYETTE EXPRESSWAY SR 0043 SEC 53B2 MP X-XX.XX TO MP X-XX.XX	MF 416 - MF 417 (PREVIOUSLY KNOWN AS MF 438 - MF 439) FINAL TYPE, SIZE, & LOCATION GENERAL NOTES, BORING TABLE AND COST ESTIMATE
		NO.	REVISIONS	DATE	APPR.			
						TOWNSHIP / BOROUGH: WEST MIFFLIN BOROUGH	SHEET: OF	

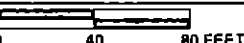


 INDICATES AREA TO BE REMOVED

PREPARED BY:
CDR MAGUIRE INC.
D.L. CLARK BUILDING, SUITE 610
503 MARTINDALE STREET
PITTSBURGH, PA 15212
PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO.
NETWORK NUMBER:
FILE NAME:
DRAWING TYPE: 2G
STRUCTURE NUMBER: MF416 - MF417
SCALE:  0 40 80 FEET

CONSTRUCTION OF MON-FAYETTE EXPRESSWAY
SR 0043 SEC 53B2
MP X-XX.XX TO MP X-XX.XX
DISTRICT: 1 COUNTY: ALLEGHENY
TOWNSHIP / BOROUGH: WEST MIFFLIN BOROUGH

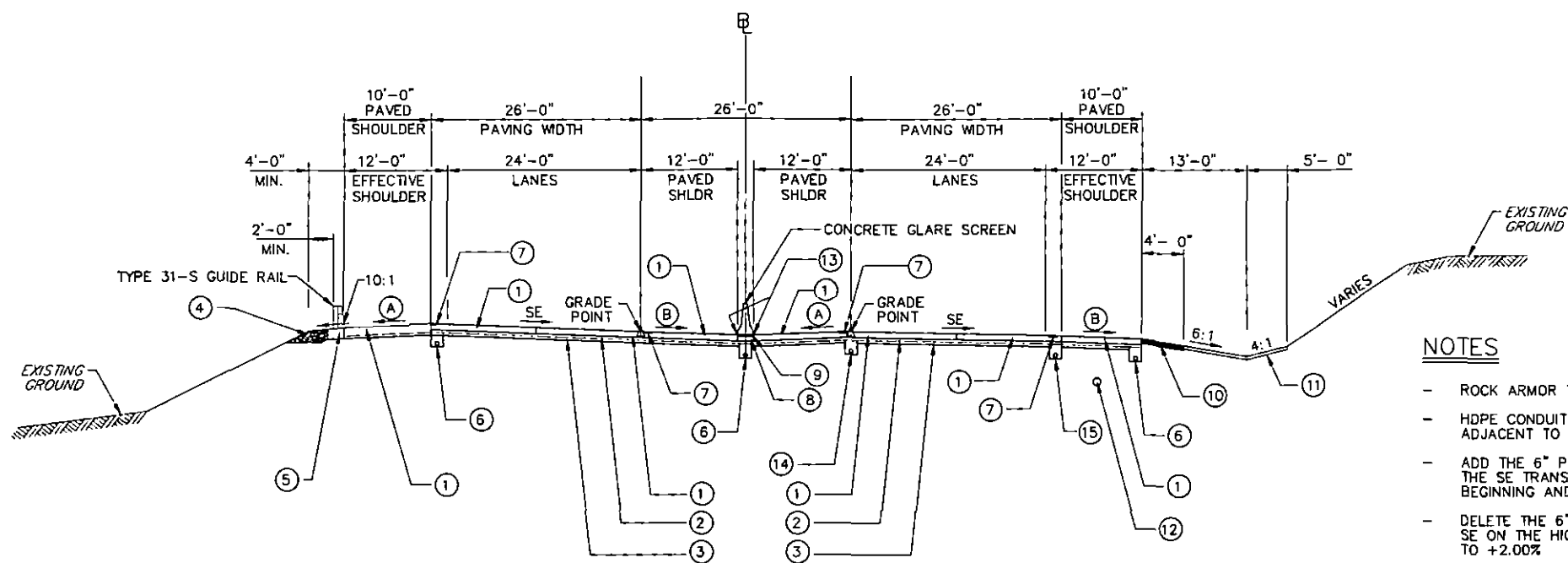
MF 416 - MF 417
(PREVIOUSLY KNOWN AS MF 438 - MF 439)
FINAL TYPE, SIZE, & LOCATION
FUTURE REDECKING SCHEME
5-SPAN / 5 STEEL PLATE GIRDERS
DRAWING: 4 OF 4
SHEET: OF

Exhibit C – Proposed Roadway Plan and Typical Section

*Mon-Fayette Expressway Project
SR 51 to I-376, Section 53B2
MF-416 & MF-417*

LEGEND

- ① LONG-LIFE CEMENT CONCRETE PAVEMENT, 12" DEPTH
- ② ASPHALT TREATED PERMEABLE BASE COURSE, 4" DEPTH OR CEMENT TREATED PERMEABLE BASE COURSE, 4" DEPTH
- ③ SUBBASE 6" DEPTH (NO. 2A)
- ④ ROCK ARMOR
- ⑤ SUBBASE UNDER GUIDE RAIL
- ⑥ 6" PAVEMENT BASE DRAIN
- ⑦ SONIC NAP ALERT PATTERN (S.N.A.P.)
- ⑧ SUPERPAVE ASPHALT MIXTURE DESIGN, HMA BINDER COURSE, PG 64-22, 10 TO <30 MILLION ESALS, 19MM MIX
- ⑨ STONE SCREENINGS FOR LEVELING, AS DIRECTED INCIDENTAL TO CONCRETE GLARE SCREEN
- ⑩ SHOULDER BACKUP
- ⑪ 6" TOPSOIL
- ⑫ HDPE CONDUIT FOR ITS
- ⑬ SEAL LONGITUDINAL JOINT WITH PG 64-22 (INCIDENTAL TO CONCRETE GLARE SCREEN)
- ⑭ 6" PAVEMENT BASE DRAIN
- ⑮ 6" PAVEMENT BASE DRAIN
- A THE SHOULDER ON THE LOW SIDE OF A SUPERELEVATED SECTION WILL BE SLOPED AT 0.04 FT/FT AWAY FROM THE PAVEMENT WHEN THE RATE OF SUPERELEVATION IS LESS THAN OR EQUAL TO 0.04 FT/FT; SLOPE SHOULDER THE SAME AS THE PAVEMENT WHEN THE PAVEMENT SLOPE IS GREATER THAN 0.04 FT/FT.
- B THE SHOULDER ON THE HIGH SIDE OF A SUPERELEVATED SECTION WILL BE SLOPED AT 0.02 FT/FT AWAY FROM THE PAVEMENT WHEN THE RATE OF SUPERELEVATION IS GREATER THAN 0.02 FT/FT TO 0.06 FT/FT.

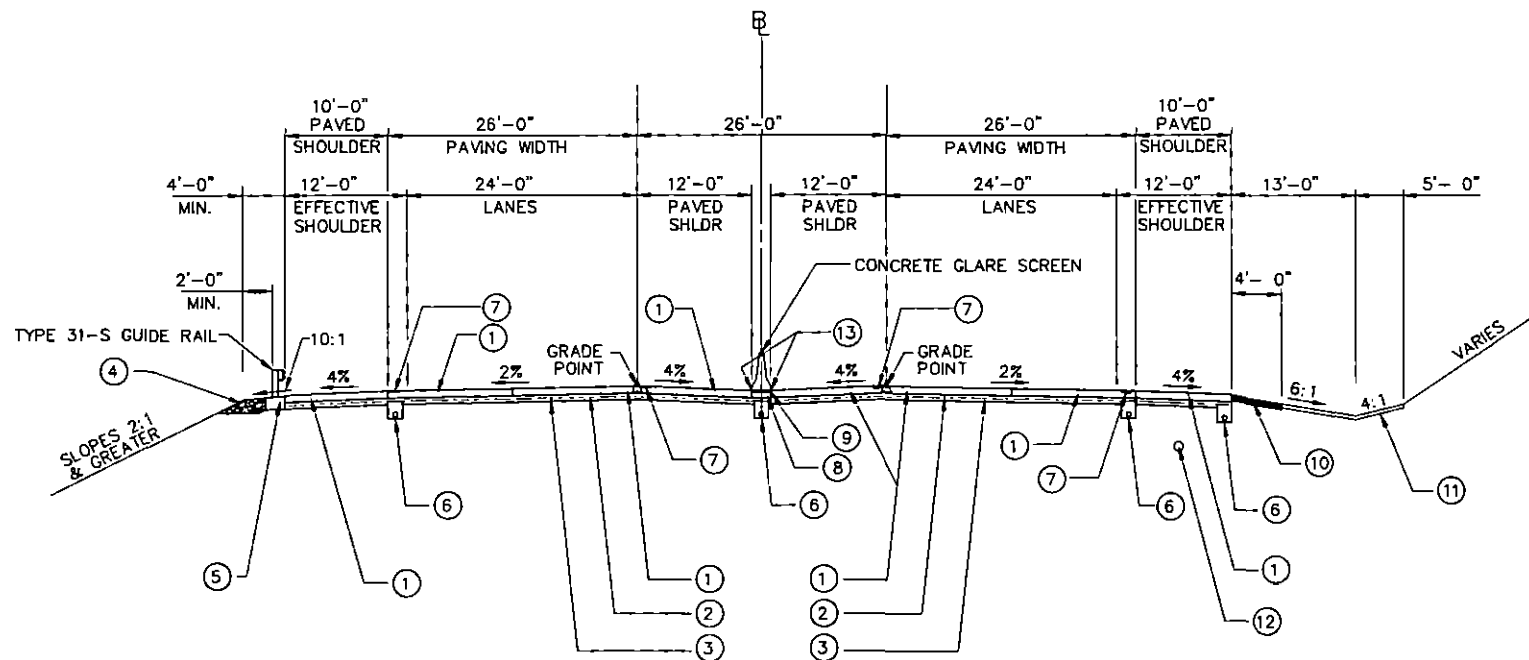


NOTES

- ROCK ARMOR TO BE IN ACCORDANCE WITH PTS-124
- HDPE CONDUIT TO BE IN ACCORDANCE WITH ITS-1200, ADJACENT TO NORTHBOUND LANE
- ADD THE 6" PAVEMENT BASE DRAIN (14) THROUGHOUT THE SE TRANSITION AND FULL SE ON THE HIGH SIDE BEGINNING AND ENDING AT -1.99%
- DELETE THE 6" PAVEMENT BASE DRAIN (15) WHEN THE SE ON THE HIGH SIDE IS GREATER THAN OR EQUAL TO +2.00%

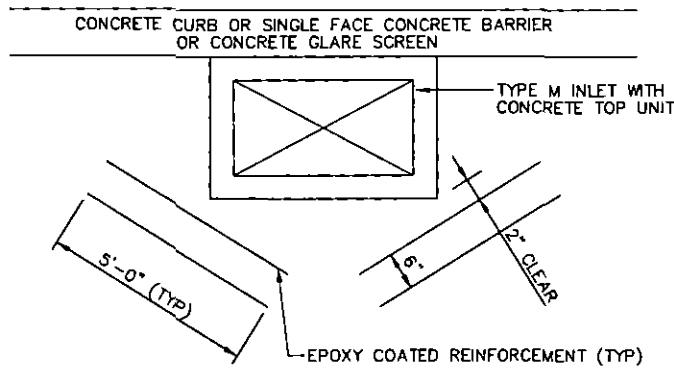
SR 0043 - TYPICAL SUPERELEVATED SECTION

N.T.S.
STA 1987+13.27 TO STA 2020+96.02



SR 0043 - TYPICAL TANGENT SECTION

N.T.S.
STA 1983+00.00 TO STA 1987+13.27
STA 2020+96.02 TO STA 2033+61.25



REINFORCEMENT AT INLET OPENINGS

CDR MAGUIRE INC.
 FILE NAME: 1601RDTs00.dgn
 PEN TABLE: PENNON-PIC.tbl
 PLOT DRIVER: PENNON-MNF-PIC-FULL-PPG.plt
 DATE PLOTTED: 6/10/2021 9:09:23 AM
 USER NAME: Richier Whaley

PREPARED BY:
CDR MAGUIRE INC.
178 THORN HILL ROAD, SUITE 200
WARRENDALE, PA 15086

PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO.	
NETWORK NUMBER:	
FILE NAME:	1601RDTs00.dgn
DRAWING TYPE:	
STRUCTURE NUMBER:	
SCALE:	NTS

CONSTRUCTION OF MON-FAYETTE EXPRESSWAY SR 0043 SEC 53B2 MP X-XX.XX TO MP X-XX.XX	
DISTRICT: 1	COUNTY: ALLEGHENY
TOWNSHIP / BOROUGH: WEST MIFFLIN BOROUGH	

TYPICAL SECTIONS	
DRAWING: 23	OF 153

SEE SHEET XX



M-59.29-SB-66-BID
ACCESS ROAD
SURVEY & CONSTR E
PI STA 3+80.03
Δ = 36°30'30" LT
D = 57'17'45"
T = 32.98'
L = 63.72'
R = 100.00'
SE = XX
PC STA 3+47.05
PT STA 4+10.77

DL ACCESS ROAD
SURVEY & CONSTR E
PI STA 102+20.49
Δ = 31°34'24" RT
D = 19°05'55"
T = 84.82'
L = 165.32'
R = 300.00'
SE = XX
PC STA 101+35.67
PT STA 103+00.99

M-59.29-SB-66-BID
ACCESS ROAD
SURVEY & CONSTR E
PI STA 6+69.41
Δ = 40°44'06" RT
D = 57'17'45"
T = 37.13'
L = 71.10'
R = 100.00'
SE = XX
PC STA 6+32.28
PT STA 7+03.38

DL ACCESS ROAD
SURVEY & CONSTR E
PI STA 104+38.51
Δ = 59°19'36" LT
D = 35°48'36"
T = 91.13'
L = 165.67'
R = 160.00'
SE = XX
PC STA 103+47.38
PT STA 105+13.05

DL ACCESS ROAD
SURVEY & CONSTR E
PI STA 100+44.03
Δ = 30°04'14" RT
D = 38°11'50"
T = 40.29'
L = 78.72'
R = 150.00'
SE = XX
PC STA 100+03.74
PT STA 100+82.46

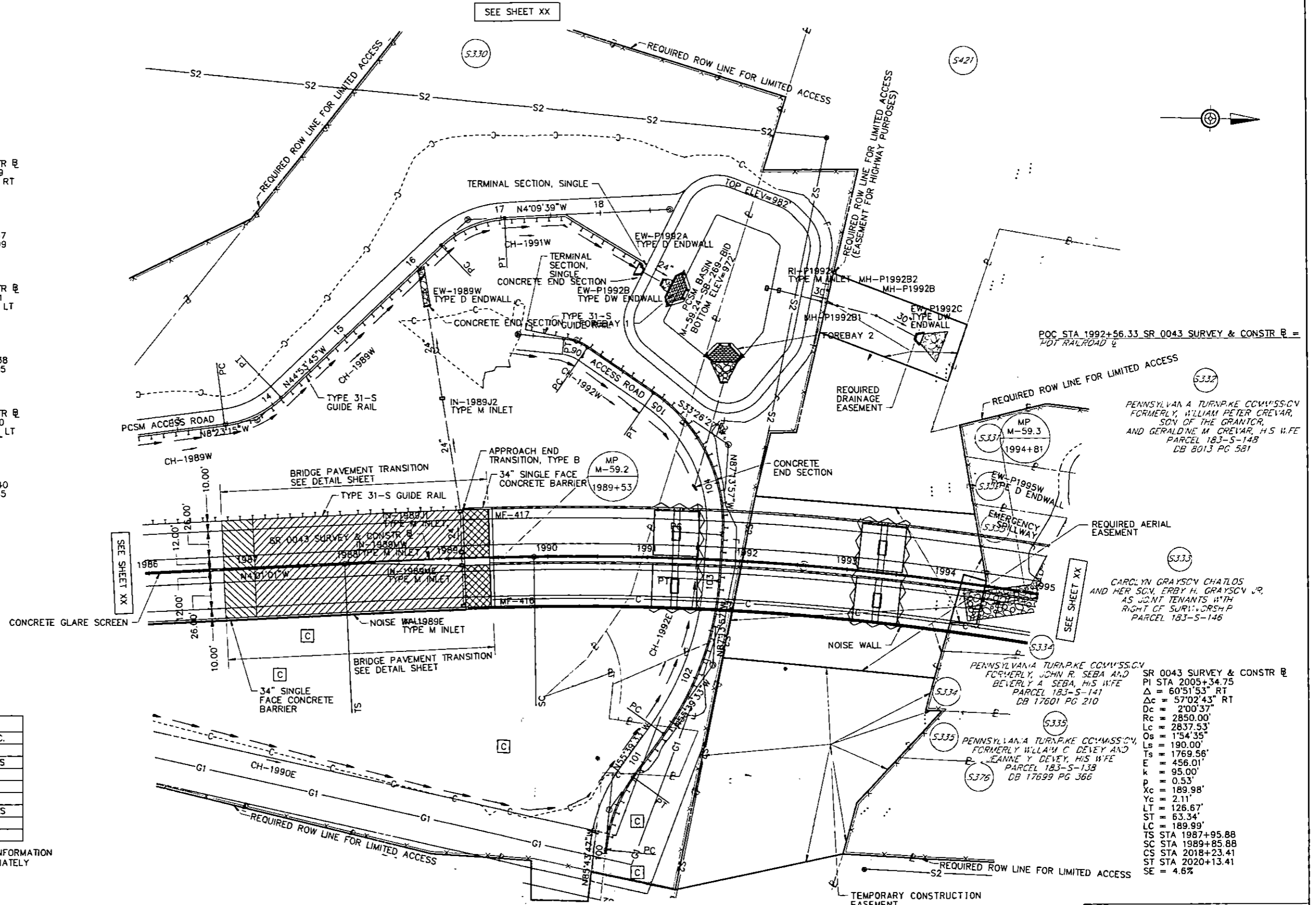
DL ACCESS ROAD
SURVEY & CONSTR E
PI STA 106+06.30
Δ = 28°56'09" LT
D = 114°35'30"
T = 12.90'
L = 25.25'
R = 50.00'
SE = XX
PC STA 105+93.40
PT STA 106+18.65

PROPOSED STRUCTURE DATA, MF-416 (NB)
5-SPAN COMPOSITE STEEL CURVED GIRDER
SPANS: 185', 205', 245', 205', 155'
VERTICAL CLEARANCE
- ACCESS ROAD: 87'-1"
- RAILROAD: 107'-8"
- HOMESTEAD/DUQUESNE ROAD: 90'-6"
SKEW: 90°, RADIUS: 2850.00'

PROPOSED STRUCTURE DATA, MF-417 (SB)
5-SPAN COMPOSITE STEEL CURVED GIRDER
SPANS: 185', 205', 245', 205', 155'
VERTICAL CLEARANCE
- ACCESS ROAD: 90'-2"
- RAILROAD: 108'-5"
- HOMESTEAD/DUQUESNE ROAD: 93'-4"
SKEW: 90°, RADIUS: 2850.00'

HYDRAULIC DATA	
DRAINAGE AREA	1,690.00 AC.
50-YEAR DESIGN FREQUENCY	
DESIGN DISCHARGE	2028.14 CFS
WATER SURFACE ELEVATION	925.98
CHANNEL VELOCITY	10.69 FPS
100-YEAR DESIGN FREQUENCY	
DESIGN DISCHARGE	2436.03 CFS
WATER SURFACE ELEVATION	926.75
CHANNEL VELOCITY	11.42 FPS

NOTE: WATER SURFACE ELEVATION AND VELOCITY INFORMATION
TAKEN FROM HEC-RAS RIVER STATION 8143, IMMEDIATELY
UPSTREAM OF THE BRIDGE.



PENNSYLVANIA TURNPIKE COMMISSION
FORMERLY, WILLIAM PETER GREYAR,
SON OF THE GRANTOR,
AND GERALDINE M. GREYAR, HIS WIFE
PARCEL 183-S-148
DB 8013 PG 581

CAROLYN GRAYSON CHATLOS
AND HER SON, ERBY H. GRAYSON JR.
AS JOINT TENANTS WITH
RIGHT OF SURVIVORSHIP
PARCEL 183-S-146

PENNSYLVANIA TURNPIKE COMMISSION
FORMERLY, JOHN R. SEBA AND
BEVERLY A. SEBA, HIS WIFE
PARCEL 183-S-141
DB 17601 PG 210

PENNSYLVANIA TURNPIKE COMMISSION,
FORMERLY WILLIAM C. DEVEY AND
JEANNE Y. DEVEY, HIS WIFE
PARCEL 183-S-138
DB 17699 PG 366

DES: XXX DWG: XXX CKD: XXX

PREPARED BY:
CDR MAGUIRE INC.
178 THORN HILL ROAD, SUITE 200
WARRENDALE, PA 15086

PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO.

NETWORK NUMBER:
FILE NAME: RDpl16.dgn
DRAWING TYPE:
STRUCTURE NUMBER:

SCALE: 0 50 100 FEET

CONSTRUCTION OF MON-FAYETTE EXPRESSWAY
SR 0043 SEC 53B2
MP X-XX.XX TO MP X-XX.XX

DISTRICT: 1 COUNTY: ALLEGHENY
TOWNSHIP / BOROUGH: WEST MIFFLIN BOROUGH

SR 0043 PLAN
STA 1986+00.00 TO STA 1995+00.00

DRAWING: OF
SHEET: 62 OF 153

CDR MAGUIRE INC.
 FILE NAME: W:\MAGUIRE\SR0043\RDPL16.dgn
 PLOT TABLE: PENN-TURN-PIE-FULL-PPR-PT.DWG
 PLOT DRIVER: PENN-TURN-PIE-FULL-PPR-PT.DWG
 DATE PLOTTED: 6/10/2021 9:09:47 AM
 USER NAME: Richard Winter

SEE SHEET XX



PENNSYLVANIA TURNPIKE COMMISSION
FORMERLY, WILLIAM PETER CREVAR, SON OF THE GRANTOR,
AND GERALDINE M. CREVAR, HIS WIFE
PARCEL 183-S-148
DB 8013 PG 581

S333

MP 59.3
1994+B3

MP M-59.4
2000+09

S338

REQUIRED ROW LINE FOR LIMITED ACCESS

REQUIRED ROW LINE FOR LIMITED ACCESS

PCSM BASIN
M-59.32-SB-125-BID
BOTTOM ELEV=953
TOP ELEV=962

APPROACH END
TRANSITION,
TYPE B

BRIDGE PAVEMENT
TRANSITION
SEE DETAIL SHEET

ANCHORED BACKSLOPE
TERMINAL TYPE I,
BURIED IN BACKSLOPE
TERMINAL DOUBLE RAIL
SW-2005W

CAROLYN GRAYSON CHATLOS
AND HER SON,
ERBY H. GRAYSON JR.
AS JOINT TENANTS WITH
RIGHT OF SURVIVORSHIP
PARCEL 183-S-1-6
DB 12866 PG 313

SEE SHEET XX

CONCRETE END SECTION

BRIDGE PAVEMENT
TRANSITION
SEE DETAIL SHEET

CONCRETE GLARE SCREEN

SEE SHEET XX

PENNSYLVANIA TURNPIKE COMMISSION
FORMERLY, JOHN R. SEBA AND
BEVERLY A. SEBA, HIS WIFE
PARCEL 183-S-141
DB 17601 PG 210

S334

S335

PENNSYLVANIA TURNPIKE COMMISSION
FORMERLY WILLIAM C. DEVEY AND
JEANNE Y. DEVEY, HIS WIFE
PARCEL 183-S-133
DB 17699 PG 366

S339

POC STA 1997+38.65 SR 0043 SURVEY & CONSTR B =

SR 0043 SURVEY & CONSTR B
PI STA 2005+34.75
 $\Delta = 60^{\circ}51'53''$ RT
 $\Delta c = 57^{\circ}02'43''$ RT
Dc = 2'00'37"
Rc = 2850.00'
Lc = 2837.53'
Os = 1'54'35"
Ls = 190.00'
Ts = 1769.56'
E = 456.01'
k = 95.00'
p = 0.53'
Xc = 189.98'
Yc = 2.11'
LT = 126.67'
ST = 63.34'
LC = 189.99'
TS STA 1987+95.88
SC STA 1989+85.88
CS STA 2018+23.41
ST STA 2020+13.41
SE = 4.6%

PROPOSED STRUCTURE DATA, MF-417 (SB)
5-SPAN COMPOSITE STEEL CURVED GIRDER
SPANS: 185', 205', 245', 205', 155'
VERTICAL CLEARANCE:
- ACCESS ROAD: 90'-2"
- RAILROAD: 108'-5"
- HOMESTEAD/DUQUESNE ROAD: 93'-4"
SKEW: 90°, RADIUS: 2850.00'

PROPOSED STRUCTURE DATA, MF-416 (NB)
5-SPAN COMPOSITE STEEL CURVED GIRDER
SPANS: 185', 205', 245', 205', 155'
VERTICAL CLEARANCE:
- ACCESS ROAD: 87'-1"
- RAILROAD: 107'-8"
- HOMESTEAD/DUQUESNE ROAD: 90'-6"
SKEW: 90°, RADIUS: 2850.00'

HYDRAULIC DATA	
DRAINAGE AREA	1,690.00 AC.
50-YEAR DESIGN FREQUENCY	
DESIGN DISCHARGE	2028.14 CFS
WATER SURFACE ELEVATION	925.98
CHANNEL VELOCITY	10.69 FPS
100-YEAR DESIGN FREQUENCY	
DESIGN DISCHARGE	2436.03 CFS
WATER SURFACE ELEVATION	926.75
CHANNEL VELOCITY	11.42 FPS

NOTE: WATER SURFACE ELEVATION AND VELOCITY INFORMATION
TAKEN FROM HEC-RAS RIVER STATION 8143, IMMEDIATELY
UPSTREAM OF THE BRIDGE.

FOR PROFILE, SEE SHEET XX

CDR MAGUIRE INC.
178 THORN HILL ROAD, SUITE 200
WARRENDALE, PA 15088
TEL: 412-835-1111
FAX: 412-835-1112
WWW.CDRMAGUIRE.COM
DATE PLOTTED: 7/10/2021 9:09:30 AM
USER: RICHARD WINTER

DES: XXX DWG: XXX CKD: XXX

PREPARED BY:
CDR MAGUIRE INC.
178 THORN HILL ROAD, SUITE 200
WARRENDALE, PA 15088

PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



NO.	REVISIONS	DATE	APPR.

WBS NO.
NETWORK NUMBER:
FILE NAME: RDp17.dgn
DRAWING TYPE:
STRUCTURE NUMBER:
SCALE: 0 50 100 FEET

CONSTRUCTION OF MON-FAYETTE EXPRESSWAY
SR 0043 SEC 53B2
MP X-XX.XX TO MP X-XX.XX
DISTRICT: 1 COUNTY: ALLEGHENY
TOWNSHIP/BOROUGH: WEST MIFFLIN BOROUGH

SR 0043 PLAN
STA 1994+00.00 TO STA 2007+00.00
DRAWING: OF
SHEET: 84 OF 153

Exhibit D – Right-of-Way Plans (excerpt)

*Mon-Fayette Expressway Project
SR 51 to I-376, Section 53B2
MF-416 & MF-417*

DATE OF DEPOSIT

JUL 29 2022

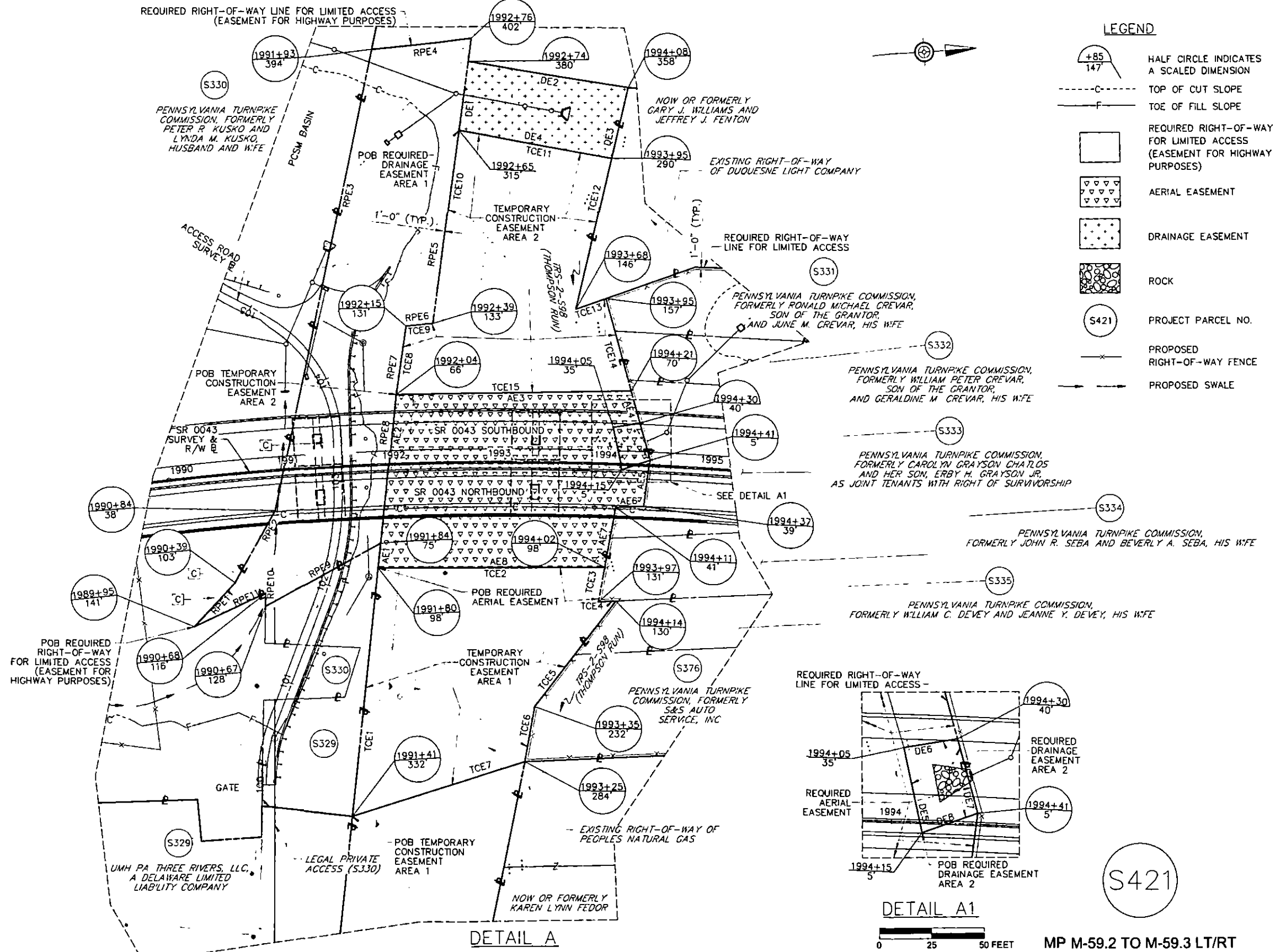
PA Public Utility Commission
Secretary's Bureau

REQUIRED DRAINAGE EASEMENT		
SIDE	BEARING	LENGTH, FT.
DE1	N 78°00'00" W	65.71'
DE2	N 13°27'22" E	152.93'
DE3	S 72°30'00" E	68.89'
DE4	S 14°38'36" W	146.43'
AREA 1 = 0.231 ACRES		
DE5	S 82°18'44" W	41.24'
DE6	N 4°37'38" W	25.75'
DE7	N 79°09'00" E	36.46'
DE8	S 14°48'49" E	27.94'
AREA 2 = 0.024 ACRES		
TOTAL AREA = 0.255 ACRES		

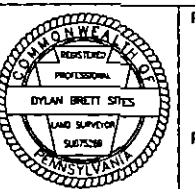
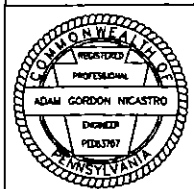
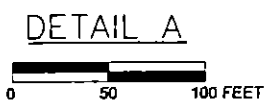
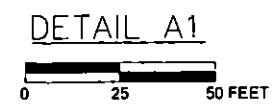
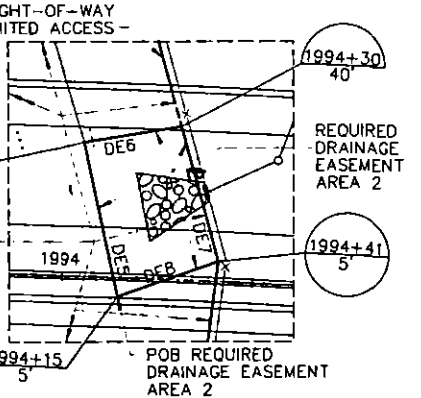
REQUIRED RIGHT-OF-WAY (EASEMENT FOR HIGHWAY PURPOSES)		
SIDE	BEARING	LENGTH, FT.
RPE1	N 43°05'48" W	56.80'
RPE2	N 56°50'48" W	78.44'
RPE3	N 73°58'48" W	447.24'
RPE4	N 1°42'11" W	95.00'
RPE5	S 78°00'00" E	271.99'
RPE6	S 1°41'36" E	25.46'
RPE7	S 77°32'38" E	65.57'
RPE8	S 79°49'16" E	142.23'
RPE9	S 24°47'38" E	124.64'
RPE10	N 84°52'48" W	12.62'
RPE11	S 20°59'48" E	74.39'
AREA = 1.198 ACRES		

TEMPORARY CONSTRUCTION EASEMENT		
SIDE	BEARING	LENGTH, FT.
TCE1	N 79°47'38" W	237.33'
TCE2	N 4°10'42" E	214.24'
TCE3	S 75°19'40" E	33.31'
TCE4	N 1°47'40" E	16.59'
TCE5	S 48°14'40" E	126.20'
TCE6	S 75°45'40" E	53.12'
TCE7	S 13°21'18" E	171.40'
AREA 1 = 0.890 ACRES		
TCE8	N 77°32'38" W	65.57'
TCE9	N 1°41'36" W	25.46'
TCE10	N 78°00'00" W	184.33'
TCE11	N 14°38'36" E	146.43'
TCE12	S 72°30'00" E	146.87'
TCE13	N 15°11'00" W	30.21'
TCE14	N 79°08'57" E	90.80'
TCE15	S 3°25'26" W	222.07'
AREA 2 = 0.876 ACRES		
TOTAL AREA = 1.766 ACRES		

REQUIRED AERIAL EASEMENT		
SIDE	BEARING	LENGTH, FT.
AE1	N 79°47'38" W	23.38'
AE2	N 79°49'16" W	142.23'
AE3	N 3°25'26" E	222.07'
AE4	N 79°09'00" E	68.21'
AE5	S 78°14'40" E	44.50'
AE6	S 2°50'20" W	26.40'
AE7	S 75°19'40" E	57.99'
AE8	S 4°10'42" W	214.24'
AREA = 0.882 ACRES		



- LEGEND**
- HALF CIRCLE INDICATES A SCALED DIMENSION
 - TOP OF CUT SLOPE
 - TOE OF FILL SLOPE
 - REQUIRED RIGHT-OF-WAY FOR LIMITED ACCESS (EASEMENT FOR HIGHWAY PURPOSES)
 - AERIAL EASEMENT
 - DRAINAGE EASEMENT
 - ROCK
 - PROJECT PARCEL NO.
 - PROPOSED RIGHT-OF-WAY FENCE
 - PROPOSED SWALE



PREPARED BY:
CDR MAGUIRE INC.
 178 THORN HILL ROAD, SUITE 200
 WARRENDALE, PA 15086

PREPARED FOR:
THE PENNSYLVANIA TURNPIKE COMMISSION



WBS NO.
M-052.50X002-4-02-98-91

NETWORK NUMBER: 6006600
 FILE NAME: RWpl16 DET.dgn
 DRAWING TYPE: 3R
 STRUCTURE NUMBER: MF416-417

SCALE: AS INDICATED

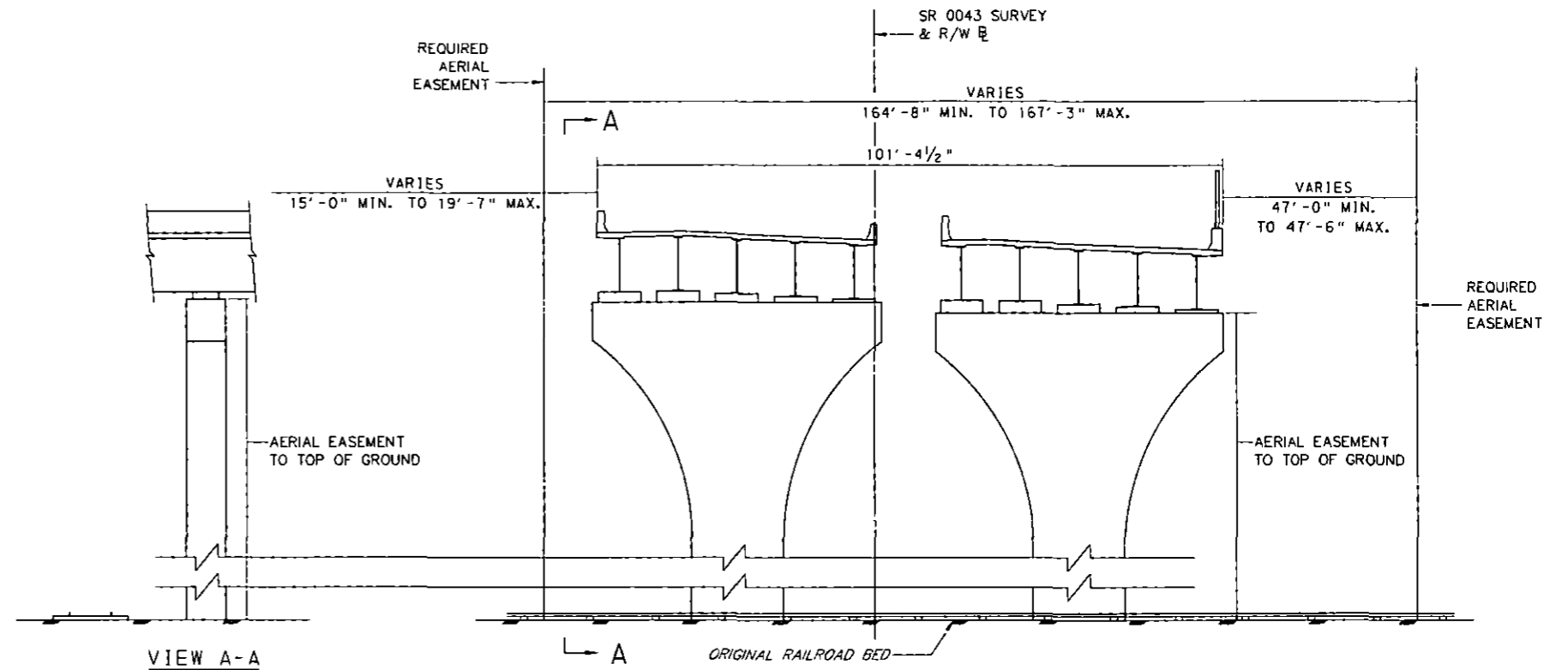
PTC PROPERTY PLOT PLAN	
PLAN NO.: RW 14S421	GRANTOR(S):
PROPERTY OWNER(S): UNION RAILROAD COMPANY	UNKNOWN
TOWNSHIP / BOROUGH: WEST MIFFLIN BOROUGH	
COUNTY: ALLEGHENY	DRAWING: 2 OF 3
DISTRICT: 1	SHEET: OF

AERIAL EASEMENT NOTES:

WHERE AN AERIAL EASEMENT IS ACQUIRED, IT SHALL INCLUDE AN EASEMENT IN THE AIR FOR THE ACCOMMODATION OF THE ELEVATED HIGHWAY STRUCTURE UNLIMITED IN VERTICAL DIMENSION ABOVE THE STRUCTURE, A SURFACE EASEMENT UNLIMITED IN VERTICAL DIMENSION FOR THE ACCOMMODATION OF PIERS AND OTHER APPURTENANCES. THE FOLLOWING LIMITATIONS SHALL BE IMPOSED ON THE PROPERTY BENEATH THE AREA AFFECTED BY THE AERIAL EASEMENT.

1. NO USE SHALL BE MADE OF THE PROPERTY WHICH SHALL ENDANGER THE STRUCTURE OR THE HEALTH, SAFETY OR WELFARE OF THE TRAVELING PUBLIC.
2. NO FLAMMABLE, EXPLOSIVE, DANGEROUS OR HAZARDOUS MATERIAL SHALL BE USED, PLACED OR STORED ON THE PROPERTY.
3. NO BUILDING OR OTHER FACILITY SHALL BE CONSTRUCTED ON THE PROPERTY WITHOUT PRIOR AUTHORITY OF THE COMMISSION. IF AND WHEN SUCH AUTHORITY IS GRANTED, THE PLANS FOR THE BUILDING OR FACILITY AND CONSTRUCTION METHODS SHALL BE SUBJECT TO THE APPROVAL OF THE COMMISSION.
4. NO INTERFERENCE SHALL BE MADE WITH THE RIGHT OF THE COMMISSION TO ENTER UPON THE PROPERTY FOR THE PURPOSES OF INSPECTION, MAINTENANCE, REPAIR, PAINTING, RECONSTRUCTION OR ALTERATION OF THE STRUCTURE OR APPURTENANCES. MOVEABLE ITEMS MAY HAVE TO BE REMOVED BY THE OWNER DURING SOME OR ALL OF THE ABOVE OPERATIONS.
5. ANY SUBSTANTIAL CHANGE IN PROPERTY USE TO BE MADE SUBSEQUENT TO THE ACQUISITION OF THE EASEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE COMMISSION.
6. THE NOTES ON THESE DRAWINGS SHALL NOT BE CONSTRUED AS LIMITING OR INTERFERING IN ANY WAY WITH THE PRESENT AND FUTURE OPERATION, USE, MAINTENANCE, REPAIR, RENEWAL, CHANGE, ADDITION, BETTERMENT OR ALTERATION OF THE RAILROAD AND ITS SUPPORTING FACILITIES.
7. THE AREA WITHIN THE AERIAL EASEMENT BENEATH THE BRIDGE STRUCTURE SHALL BE AVAILABLE TO THE COMMISSION, ITS ASSIGNS, ITS QUALIFIED EMPLOYEES AND CONTRACTORS IN ORDER TO INSPECT AND MAINTAIN THE STRUCTURE UPON CONTACTING THE RAILROAD AND ESTABLISHING PROPER PROTECTION FOR THE WORK IN ACCORDANCE WITH THE USUAL CUSTOMARY PROCEDURES THAT THE RAILROAD HAS ESTABLISHED FOR SUCH PROTECTION.

AERIAL EASEMENT SKETCH

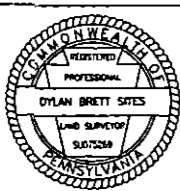
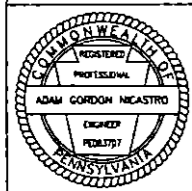


SKETCH SHOWING ESTATE FOR THE LIMITED AERIAL EASEMENT
FROM STA 1991+80.02 TO STA 1994+40.98

USE OF AIRSPACE BENEATH THE ESTABLISHED GRADELINE OF THE HIGHWAY SHALL PROVIDE SUFFICIENT VERTICAL AND HORIZONTAL CLEARANCES FOR THE CONSTRUCTION, OPERATION, MAINTENANCE, VENTILATION AND SAFETY OF THE HIGHWAY FACILITY. THE ESTATE ACQUIRED ABOVE THE AERIAL EASEMENT LINE MAY BE ENTERED ON BY MOVING VEHICLES SUCH AS TRUCKS OR RAILROAD ROLLING STOCK.

S421

MP M-59.2 TO M-59.3 LT/RT



PREPARED BY:
CDR MAGUIRE INC.
178 THORN HILL ROAD, SUITE 200
WARRENDALE, PA 15086

PREPARED FOR:
THE PENNSYLVANIA
TURNPIKE COMMISSION



WBS NO.
M-052.50X002-4-02-88-01

NETWORK NUMBER: 6006600
FILE NAME: RWp116 DET.dgn
DRAWING TYPE: 3R
STRUCTURE NUMBER: MF416-417

SCALE: AS INDICATED

PTC PROPERTY PLOT PLAN	
PLAN NO.: RW 14S421	
PROPERTY OWNER(S): UNION RAILROAD COMPANY	GRANTOR(S): UNKNOWN
TOWNSHIP / BOROUGH: WEST MIFFLIN BOROUGH	
COUNTY: ALLEGHENY	DRAWING: 3 OF 3
DISTRICT: 1	SHEET: OF

Exhibit E – Form D-4279

*Mon-Fayette Expressway Project
SR 51 to I-376, Section 53B2
MF-416 & MF-417*

DATE OF DEPOSIT

JUL 29 2022

**PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU**

D-4279 (12-14)

RAILROAD CROSSING DATA FOR DESIGN

Date: 5/17/19

LOCATION:

County: Allegheny City, Borough, Township: West Mifflin

Route SR 0043 Section _____ Highway Station n/a (Mon-Fayette Expressway)

Name of Railroad Union Railroad Company, LLC (URR) Branch Mifflin

DOT No. _____ Railroad Mile Post _____

Width RR R/W _____ m; 220 ft

Does a fiber optics cable occupy RR R/W? Yes No Unknown

Name of Fiber Optic Company Union Railroad Company, LLC(underground)/U.S. Steel (aerial)

Minimum horizontal clear: (to obstruction): _____ m; _____ (Minimum 12 ft from centerline of track) (To toe of slope) _____ m; _____ (ft)

Minimum vertical clear _____ m; (23 ft. above top of rail)

Number of daily switching movements at crossing Need more information

RAIL TRAFFIC:

Number passenger trains daily -0- Max speed _____ km/hr (_____ mph)

Number freight trains daily 2 Max speed _____ km/hr (20 mph)

Number main line tracks 0 Electrified _____

Number branch line tracks 1 Electrified _____

Number spur or siding tracks 0 Electrified _____

Number of yard tracks 0

Can any existing tracks be removed No

Additional track space requested No

Have plans been prepared for additional tracks? N/A

When will tracks be constructed? N/A

Is off track equipment being used? Yes

Are any toxic chemicals, fuels or wastes being hauled on any of the rail lines? Yes No

REMARKS: _____

Union Railroad Company
Railroad Company
by Greg Bykowski
Name
Civil Engineer IV
Title

D-4279A (12-14)

RAILROAD CROSSING
DATA FOR CONTRACTOR

Date: 5/17/19

PART A - Project Information & Description to be completed by the District

(Instructions: The District is to complete Part A then submit the D-4279A form to the Railroad for completion of Part B of this form. Submission of the D-4279A form to the Railroad should occur during the Final Design phase of the project. Information provided on this form could be used in the preparation of the written agreement between the State and the Railroad Company, if required, that addresses the 12 items as per 23 CFR 646.216 (d) (2))

PROJECT INFORMATION: Project Title: Mon-Fayette Expressway – SR 0043 Section 53B

County Allegheny Municipality West Mifflin

Route/Section SR 0043 Road Name Mon-Fayette Expressway

DOT No. _____ RR Mile Post _____ Type of Crossing Highway Overpass

MPMS No. _____ ECMS No. _____ PUC Doc. No. _____

Project Funding _____ (%) Federal 100* (%) State _____ (%) Local _____

*Pennsylvania Turnpike Commission (PTC)

PROJECT DESCRIPTION: *(This description shall clearly indicate the following: (1) Proposed construction activities; (2) By whom the construction activities will be performed (Contractor or Department forces); (3) If use of railroad property will be required of the Department's contractor, and (4) If construction activities will be contained within existing or proposed temporary construction easements, required right-of-way, or aerial easements.)*

This is for new construction of dual-bridges carrying SR 0043 The Mon-Fayette Expressway over Union Railroad in West Mifflin by the Pennsylvania Turnpike Commission. Construction will entail erection of the proposed five-span bridge as well as construction of new piers and abutments. These activities will be contained within proposed temporary construction easements, and the new bridge will be located within required right-of-way and aerial easements.

PART B - Information to be completed by Railroad.

(Instructions: The Railroad is to complete Part B of this form and return to the District with any supporting documents for inclusion in the Department's bid contract.)

General Information

Railroad Owner: Transtar, LLC

Railroad Operator: Union Railroad Company, LLC

1. (a) When and under what conditions will the contractor be allowed to work over the tracks or within the track area? Contractor cannot work over the tracks without a URR flagman. Contractor and subcontractor(s) must submit and have approved a certificate of insurance. In addition, they must have a current Temporary Permit issued by the Railroad.
2. (a) Describe the work which will be performed by railroad forces at the job site. URR will provide flagman protection when working above/over URR tracks, within 25 ft. of any tracks, and when deemed necessary by the Railroad. Railroad crossings will be installed by railroad forces.
- (b) How many railroad employees will be assigned to work at the job sites? 1 for flagging. Varies if other

tasks are involved.

3. (a) Will your company permit blasting as a means of demolition of the existing bridge? Yes No

If so, under what constraints? _____

(b) Will your company require a shield be erected over your tracks to protect your property from falling debris during demolition of the bridge? Yes No

(c) If a shield is required, what vertical clearance from the top of the rail to underside of shield will you require and what design load do you want specified for the shield? Min. 23'-0" above top of rail.
Need for shield to be discussed during Pre-Construction meeting. At min., fire blanket protection is required.

4. What identifying name and/or number would you prefer to be utilized in reference to this project?

Mon-Fayette Expressway-Section 53B-SR 0043 Dual-Bridges

5. Is it necessary to move C&S line prior to construction? More information is needed. Yes No

How many working days required for C&S line relocations? _____

Train Movements/Speeds

6. Will temporary track outages be permitted during construction? Yes No

If so, under what conditions? To be determined by the Railroad

7. Will your company agree to restrict train speeds through the project area during construction? Yes No

8. Total Number of current Daily Train Movements and Speed of Trains at crossing.

Number of Passenger Trains -0- Number of Freight Trains 0

Number Switching Trains 3 Total Daylight Through Trains (6AM to 6PM) 2

Typical Speed Range (mph) 10-20 Maximum Time Table (mph) 20 mph

Watchmen/Flagmen Requirements

9. Will your company require watchmen/flagmen? Yes No

If "Yes" please complete the following.

(a) Is watchmen/flagmen required at all times or just when track is active? Whenever working over/above URR tracks, when within 25' for any tracks or as deemed necessary by the Railroad.

(b) How much advance notice is required to be provided to your company for scheduling of watchmen/flagmen? 48-hours

(c) What are your company's current costs for protective services? \$80.62/hr. straight time and \$112.26/hr. overtime (rates are subject to change). 24-hour notice is required to cancel a flagman. Failure to cancel within 24 hours will result in a charge for 8 hours of flagging. In addition to flagmen charges, there is a daily vehicle charge (vehicle used by flagman). Depending on type of vehicle, fee varies. Fee is usually \$28.00/day.

(d) In cases where the Department's project only involves state and/or local funding, will you accept payment for protective services directly from the Department's contractor provided the required services are less than 5 working days? Yes No

Railroad Insurance Requirements

10. Is this an operating or non-operating Railroad?

Operating Non-Operating

If a non-operating railroad, do you waive the Railroad Insurance coverage requirements? Yes No

If waived, do you need to be additionally insured on the project general liability insurance? Yes No

11. Does this involve the Right-of-Way of a National Railroad (Yes) Yes No

12. List the types of Railroad Insurance coverage and coverage limits required to be obtained by the Contractor:

<u>Coverage Type</u>	<u>Cover Limits</u>
a. Railroad's Protective Public Liability Insurance	<u>See Exhibit A attached</u>
b. Contractor's Public Liability and Property Damage Insurance	<u>See Exhibit A attached</u>
c. Contractor's Protective Public Liability and Property Damage	<u>See Exhibit A attached</u>
d. _____	_____
e. _____	_____

13. If a temporary grade crossing is required, what procedures are necessary to obtain same? *(Explain or attach copy of Railroad procedures.)* Contact Darren Beasock (412-235-1582) in the Maintenance of Way Department. Installation and removal is by URR forces at the contractor's expense. To utilize crossing, a flagman may be required.

14. Describe any special license or permit fees required of the contractor. Permit/Administrative fee of \$600.00. Charged to the primary/general contractor only.

15. Is a Right of Entry Permit/Agreement required to be obtained by the contractor? Yes No

In addition, all subcontractors will need to submit insurance (meeting URR insurance requirements) and obtain a Temporary Permit.

(Completion of this information does not replace or satisfy the requirements outlined in 23 CFR 646.216(e)(2)(iii) pertaining to Railroad property interest.) If "Yes" please complete the following.

(a) Right of Entry Permit Requirements: *(Explain when an Entry Permit is required by the Department's contractor and conditions/restrictions of the permit or attach copy of Railroad procedures.)*

All contractors and subcontractors are required to obtain a Temporary Permit in advance. Refer to blank Entry Permit attached. NOTE: Insurance requirements (Exhibit A) are the last 2 pages of the permit.

(b) Process for obtaining a Right of Entry Permit: *(Explain the process involved for a Department's contractor to obtain an Entry Permit from the Railroad or attach copy of Railroad procedures.)*

Contact C. Connelly at 412-433-7367 at least 4 weeks in advance. Provide site map and description of work to be done along with anticipated start date. Provide list of all subcontractors along with a contact person's name and phone number. Submit a certificate of insurance meeting all requirements listed in Exhibit A for approval and all applicable fees. Provide onsite contact person's name and cell phone number.

(c) Timeframes associates with a Right of Entry Permit: *(Explain Entry Permit processing time lines or attach copy of Railroads procedures.)* Process can take 4-6 weeks.

(d) Costs of a Right of Entry Permit: *(Explain to required fee(s) to accompany Entry Permit.)* Permit fee of \$600.00. Charged to primary/general contractor only. There may be additional costs

associated with the permit such as flagging.

Railroad Contact Information

16. Railroad representative for contact by the Department's contractor for insurance requirements.

Name: Cathy Connelly

Address: Transtar, LLC/Union Railroad Company, LLC 1350 Penn Ave., Suite 200, Pittsburgh,
PA 15222

Telephone Number: (412) 433-7367

17. Railroad representative for contact by the Department's contractor for Railroad Protective Services.

Name: Cathy Connelly

Address: Transtar, LLC/Union Railroad Company, LLC, 1350 Penn Ave., Suite 200, Pittsburgh,
PA 15222

Telephone Number: (412) 433-7367

Railroad Specifications/Design Standards

18. Does the Railroad have Standard Special provisions that are to be included with the Department's construction bid contract? (No) Yes No

If "Yes" please indicate where an electronic version can be obtained or attach a copy to this completed form when returned to the District.

**BEFORE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Pennsylvania Turnpike Commission (PTC) for approval to construct new above grade public crossings by the installation of multi-span dual steel girder bridges where mainline of SR 43 Mon-Fayette Expressway crosses a single track of the Union Railroad, as well as Thompson Run, and Homestead-Duquesne Road; PTC will own and maintain the dual overhead bridges located in West Mifflin Borough, Allegheny County, Pennsylvania.

Application
Docket No. _____

DATE OF DEPOSIT

JUL 29 2022

CERTIFICATION OF SERVICE

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

I, Kevin Scheurich, P.E., Assistant Chief Engineer – Design, hereby certify that on the date listed below a true and correct copy of the within application was served upon the following parties by first class mail, postage prepaid at Harrisburg, Pennsylvania.

Mr. Greg Bykowski, P.E.
Transtar, LLC
Union Railroad Company
819 Duquesne Blvd.
Duquesne, PA 15110
GBykowski@transtarrail.com

Mr. Stephen G. Shanley, PE, Director
Allegheny County Department of Public Works
501 County Office Building
542 Forbes Avenue
Pittsburgh, PA 15219
Stephen.Shanley@AlleghenyCounty.US

Ms. Michele Acitelli, P.E.
District Utility and Grade Crossing Manager
PENNDOT District 11-0
45 Thoms Run Road
Bridgeville PA 15017
miaacitelli@pa.gov

Mr. Brian Kamauf
Borough Manager
West Mifflin Borough
1020 Lebanon Road
West Mifflin, PA 15122
Web@WestMifflinBorough.com

Mr. Daniel D. Leonard, P.E., Acting Chief
Utilities and Right of Way Section
Pennsylvania Department of Transportation
P.O. Box 3362
Harrisburg, PA 17105-3362
DANLEONARD@pa.gov

Mr. Daniel Haught, P.E.
PA American Water
300 Galley Road
McMurray, PA 15317
daniel.c.haught@amwater.com

Mr. Chuck Rampala
Port Authority of Allegheny County
345 Sixth Ave, 3rd Floor
Pittsburgh, PA 15222
CRompala@PortAuthority.org

Mr. John Walko
Peoples Natural Gas Company LLC
1201 Pitt Street
Pittsburgh, PA 15221
John.Walko@peoples-gas.com

Mr. Jeff Guido
Verizon
508 Old Frankstown Rd
Monroeville, PA 15146
jeffrey.d.guido@verizon.com

Mr. Nick Anderson
Duquesne Light Company
2825 New Beaver Avenue
Pittsburgh, PA 15233
manderson@duqlight.com

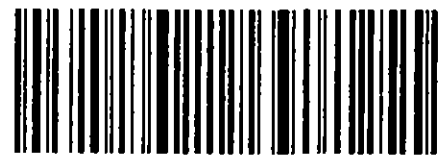
Mr. David Schade
Comcast
2300 Eldo Road
Monroeville, PA 15146
david_schade@comcast.com

Dated this 28th day of July, 2022

Kevin W. Scheurich

Kevin Scheurich, P.E.
Assistant Chief Engineer – Design

Pennsylvania Turnpike Commission
C/O HDR Engineering
301 Grant Street, Suite 1700
Pittsburgh, PA 15219



7018 0680 0001 7195 4032

FIRST-CLASS



US POSTAGE

02 1P

\$ 010.13⁰

0001152749

JUL 29 2022

MAILED FROM ZIP CODE 15222

RECEIVED

AUG - 3 2022

PA PUBLIC UTILITY COMMISSION
SECRETARY'S BUREAU

Rosemary Chiavetta
Pennsylvania Public Utility Commission
P.O. Box 3265
Harrisburg, PA 17105-3265