

November 5, 2024

Rosemary Chiavetta, Secretary
Pennsylvania Public Utility Commission
400 North Street
Harrisburg, PA 17120

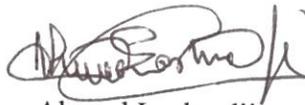
Re: Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to replace the existing public above-grade crossing by the construction of a new bridge where Seventeenth Street crosses the two tracks of Norfolk Southern Company, DOT No. 592188 M in the City of Harrisburg, Dauphin 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,



Ahmed Lasloudji
Engineering District 8-0
Department of Transportation

Attachments

cc: Parties of Record:

Mark J. Chappell, PE., Chief, Right-of-Way and Utilities Section, 7th Floor, CKB
Karen L. Cummings Senior Assistant Counsel, Office of Chief Counsel, 9th Floor, CKB
William M. Sinick, PE., Supervisor, Rail Safety Engineering Section PUC, 3rd Floor, CKB

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to replace the existing public above-grade crossing by the construction of a new bridge where Seventeenth Street crosses the two tracks of Norfolk Southern Railway Company, DOT No. 592 188 M in the City of Harrisburg, Dauphin County, and the allocation of costs incident thereto.

Application
Docket No. _____

Electronically Filed

**APPLICATION TO ALTER CROSSING AND
TO TRANSFER JURISDICTION UPON FINAL ORDER**

Applicant, Commonwealth of Pennsylvania, Department of Transportation, on behalf of the City of Harrisburg, 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 Seventeenth Street crosses above the two (2) tracks of Norfolk Southern Railway Company, DOT Number: 592 188 M, at RR Milepost HP-111.13 in the City of Harrisburg, Dauphin County as described below.

1. The name and address of the Applicant is the Commonwealth of Pennsylvania, Department of Transportation, Richard A. Reisinger, P.E., Assistant District Executive - Design, Engineering District 8-0, 2140 Herr Street, Harrisburg, PA 17103-1699.

2. The name and address of the attorney for the Applicant is Karen L. Cummings, Senior 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 the 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., filing this Application on behalf of the City of Harrisburg pursuant to a duly enacted delegation as evidenced by the resolution dated July 9, 2024, which is attached hereto and marked as Exhibit “A”.

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
P.O. Box 3362
Harrisburg, PA 17105-3362
mchappel@pa.gov

Karen L. Cummings, Senior Counsel
Office Chief Counsel
Pennsylvania Department of Transportation
P.O. Box 8212
Harrisburg, PA 17105-8212
kcummings@pa.gov

5. The Applicant is seeking approval to replace the existing single-span concrete box beam bridge with a single-span prestressed concrete PA bulb-tee beam bridge on the existing alignment. The structure will have an out-to-out width of approximately 93’ - 4”. The proposed horizontal and vertical clearance will exceed the Public Utility Commission's minimum required clearances. A location Map is attached hereto and marked as Exhibit “B”. Additionally, a copy of the structure plans consisting of sheets 1 through 4 is attached hereto and marked as Exhibit “C”.

6. The Applicant is aware of (a) prior Public Utility Commission order(s) for this crossing at Docket Number(s): A-00099241, A-00117114, and C-00018757.
7. The average daily traffic for Seventeenth Street at this crossing is 12,955 vehicles with 2% trucks.
8. The estimated total cost for the bridge replacement is approximately \$8,200,000 while the overall construction cost is approximately \$149,418,500.00. It is anticipated that the funding for the project will be 100% federal funds.
9. This project is necessary and proper for the safety and convenience of the public.
10. To construct, operate, and maintain the new bridge, the project will require the acquisition, for and on behalf of the City of Harrisburg, of rights of way in permanent aerial easements and permanent slope easements, from Norfolk Southern.
11. While the Applicant's policy is to acquire such rights of way amicably by deed through negotiation, it may become necessary for the Commission to appropriate railroad property if an amicable settlement cannot be reached.
12. If it becomes necessary for the Commission to appropriate railroad property to facilitate the crossing alterations, and in order to avoid delays on the project which is part of Applicant's larger I-83 Capital Beltway Project, the Applicant requests that the Commission transfer this matter to the Court of Common Pleas of Dauphin County for the filing of a Petition to deposit the estimated

just compensation amount into court pursuant to the Eminent Domain Code, 26 Pa.C.S. §§ 307, 521, and 522, concurrent with the issuance of a final Order approving the right of way plans.

13. 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 and, concurrent with the issuance of a final Order approving the right of way plans, pursuant to 66 Pa.C.S. § 2704, refer this matter to the Court of Common Pleas of Dauphin County for the filing of a Petition to deposit the estimated just compensation amount into court pursuant to the Eminent Domain Code, 26 Pa.C.S. §§ 307, 521, and 522.

Respectfully Submitted:



Richard A. Reisinger, P.E.
Assistant District Executive
Engineering District 8-0
Department of Transportation
2140 Herr Street
Harrisburg, PA 17103-1699
Phone: (717) 772-0032
Fax: (717) 705-2262
E-mail: ricreising@pa.gov

Dated: 11/4/2024

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to replace the existing public above-grade crossing by the construction of a new bridge where Seventeenth Street crosses the two tracks of Norfolk Southern Railway Company, DOT No. 592 188 M in the City of Harrisburg, Dauphin County, and the allocation of costs incident thereto.

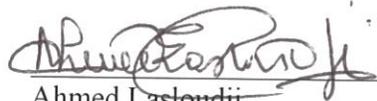
Application
Docket No. _____

Electronically Filed

VERIFICATION

I, Ahmed Lasloudji, 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: 10/5/2024


Ahmed Lasloudji
Grade Crossing Administrator

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of the Department of Transportation of the Commonwealth of Pennsylvania for approval to replace the existing public above-grade crossing by the construction of a new bridge where Seventeenth Street crosses the two tracks of Norfolk Southern Company, DOT No. 592188 M in the City of Harrisburg, Dauphin County, and the allocation of costs incident thereto.

Application

Docket No. _____

Electronically Filed

Douglas Starling, P.E.
Senior Engineer Public Improvement
Norfolk Southern Railroad Company
1200 Peachtree Street, N.E.
Atlanta, GA 30309
Douglas.Starling@nscorp.com

Julianne Freeman, Esq.
General Attorney
Norfolk Southern Railroad Company
Three Commercial Place
Norfolk, VA 23510-9241
Julianne.Freeman@nscorp.com

P. Hartwick, Chairman
Dauphin County Commissioners
Dauphin County Administrative Building
2 South Second Street, 4th Floor
Harrisburg, PA 17108
ghartwick@dauphincounty.org

Aaron Lamke
Brightspeed Internet
1765 West Trindle Road
Carlisle, PA 17015
aaron.lamkell@brightspeed.com

Joel Seiders, City Engineer
City of Harrisburg
123 Walnut Street, Suite 212
Harrisburg, PA 17101
jseiders@harrisburgpa.gov

Charlotte Krupa
PPL Electric
2 North Ninth Street
Allentown, PA 18101
cakrupa@pplweb.com

Geoffrey Ferguson
UGI Utilities
1301 AIP Drive
Middletown, PA 17057
gferguson@ugi.com

Micaela Swart
Capital Region Water
212 Locust Street, Suite 500
Harrisburg, PA 17101
Micaela.Swart@capitalregionwater.com

Mike Sweigard
Comcast
4601 Smith Street
Harrisburg, PA 17109
mike_sweigard@cable.comcast.com

Rob Zimmer
Verizon Pennsylvania
801 South 29th Street
Harrisburg, 17111
robert.zimmer@verizon.com

Scott Dreiling
XO Communications
630 Clark Avenue
King of Prussia PA 19406
scott.j.dreiling@verizon.com

Adam Cubbedge
Century Link
1201 Walnut Bottom Road
Carlisle, PA 17015
adam.cubbedge1@brightspeed.com

Bill Price
Zayo Group LLC – Telecom
3500 AM Drive
Quakertown, PA 18951
bprice@nextmiletech.com

Jeffrey Bowra
Capital Region Water
212 Locust Street, Suite 500
Harrisburg, PA 17101
Jeff.bowra@capitalregionwater.com

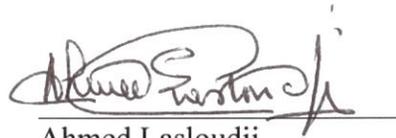
Lewis Borhman
Mountain, Ltd.
5353 Route 333
Mifflintown, PA 17059
lewis.borhman@lumen.com

Mike Brown
Sprint - Telecom
484 Williamsport Pike
Martinburg, PA 25404
michael.p.brown@sprint.com

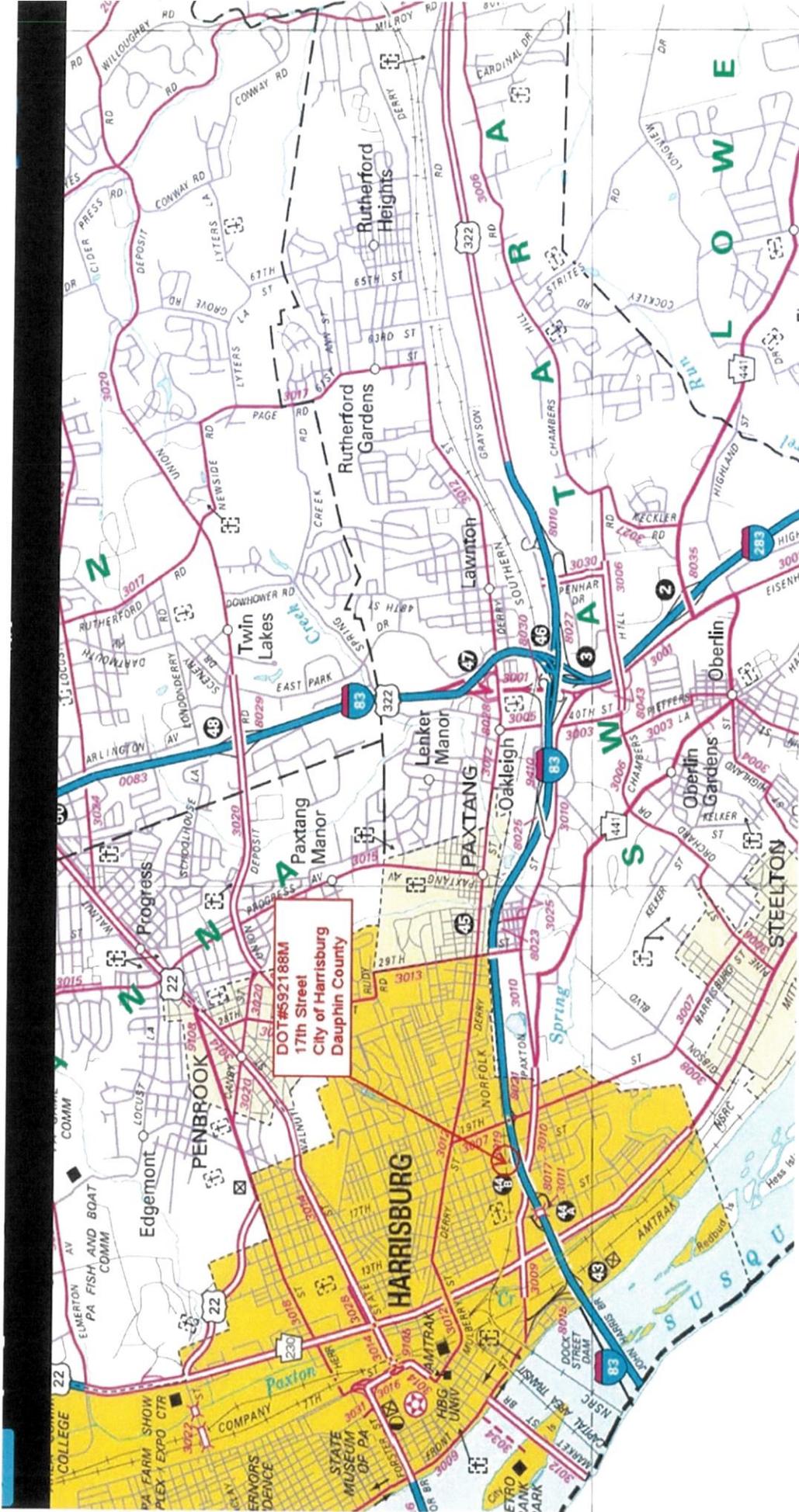
Robert Januszko
Frontier Communications
93 Old Berwick Road
Drums, PA 17023
robert.januszko@ftr.com

Natalie Blackman
Swatara Township Authority - Sewer
595 Eisenhower Blvd
Harrisburg, PA 17111
nblackman@swataratwpauthority-pa.gov

Dated this: Fifth Day of November 2024



Ahmed Lasloudji
2140 Herr Street
Harrisburg, PA 17103-1699
(717) 787-4732
alasloudji@pa.gov



Location Map
Exhibit "B"

INTER

OFFICE

MEMO

To: HARRISBURG CITY COUNCIL
From: City Clerk
LEGISLATIVE APPROVAL FORM

Date:

LEGISLATIVE APPROVAL FORM/CERTIFICATE OF ACCEPTANCE

BILL NO. 4 -2024 RESOLUTION NO. -2024

THE ABOVE LISTED ITEM WAS WRITTEN AND PREPARED FOR FINAL INTRODUCTION AT THE HARRISBURG CITY SOLICITOR'S OFFICE ON:

/s/ Neil A. Grover
City Solicitor

July 9, 2024
Date

Requested by Department/Bureau: ENGINEERING / LAW BUREAU

Department/Bureau Contact Person: JOEL SEIDERS / NEIL GROVER

For Action on or before:

The attached was received in the Office of the City Clerk for introduction on

Received by:

Michael G. Parkes

Date:

7/9/2024

Exhibit "A"

BILL NO. 4 - 2024

Moved by: President Bowers

An Ordinance delegating authority to the Secretary of Transportation, Commonwealth of Pennsylvania, Department of Transportation, to file with the Pennsylvania Public Utility Commission, as may be required, for and on behalf of the City of Harrisburg, an application for the construction/reconstruction of the 17th Street Bridge crossing over railroad property and for the appropriation of necessary rights-of-way.

WHEREAS, the City of Harrisburg ("the City") and the Secretary of Transportation, Commonwealth of Pennsylvania, Department of Transportation ("the Secretary" or "PennDOT"), have coordinated through appropriate officials a bridge replacement project at the location where 17th Street crosses the Norfolk Southern railroad tracks with an elevated structure and connects to State Route 0083 (I-83), the Capital Beltway, in the City (the "Project"); and

WHEREAS, the City of Harrisburg owns and maintains the existing 17th Street roadway and structure over the Norfolk Southern railroad tracks; and

WHEREAS, to build the Project, the Secretary will be required to file an application with the Pennsylvania Public Utility Commission (PUC) to alter the 17th Street railroad crossing and acquire from Norfolk Southern, for and on behalf of the City of Harrisburg, rights-of-way in permanent aerial easements and permanent slope easements to construct, operate and maintain the new bridge facility; and

WHEREAS, although it is the policy of the Secretary to acquire all such rights-of-way amicably by negotiation, it may become necessary for the PUC to appropriate railroad property in the event an amicable settlement cannot be reached; and

WHEREAS, the Secretary, on behalf of the Governor as well as himself, wishes to proceed in a prompt manner with the acquisition of all necessary rights-of-way for the Project; and

27 **WHEREAS**, the City is authorized through the General Powers conferred under Section 303
28 of the Optional Third Class City Charter Law, 53 P.S. § 41303 (2), “. . . to construct, acquire, operate
29 or maintain, any and all public improvements, projects or enterprises for any public purpose . . .;” and

30 **WHEREAS**, the City is expressly authorized under the Third Class City Code, 11 Pa. C. S.
31 § 13110(a) to “. . . enter into an agreement with any . . . public agency . . . for the laying out,
32 construction, improvement and maintenance of any bridge . . .;” and

33 **WHEREAS**, the Secretary is empowered with general authority under the Administrative
34 Code of 1929, as amended, 71 P.S. § 511.1, to “. . . enter into all necessary contracts and agreements
35 with the proper agencies of any government, . . . and/or political subdivision . . . and shall do all other
36 things necessary and proper in order to obtain any benefits afforded under the provisions of any act
37 of . . . any governing body of any political subdivision of the Commonwealth of Pennsylvania . . . for
38 any purpose connected in any way with the Department of Transportation of the Commonwealth of
39 Pennsylvania.”

40 **NOW, THEREFORE, BE IT ORDAINED BY THE COUNCIL OF THE CITY OF**
41 **HARRISBURG, AND IT IS HEREBY ENACTED BY AUTHORITY OF THE SAME, AS**
42 **FOLLOWS:**

43

44 Ch. 1-201.1.C PROVIDES “AMENDMENTS TO EXISTING LEGISLATION ARE TO
45 BE UNDERLINED; DELETIONS ARE TO BE INDICATED BY [BRACKETING]. ADDITIONS TO
46 PROPOSED LEGISLATION WHICH AMENDS EXISTING LEGISLATION SHALL BE CAPITALIZED;
47 DELETIONS SHALL BE INDICATED BY STRIKING (-).”

48

49 **SECTION 1.** DELEGATION OF AUTHORITY.

50 The City of Harrisburg hereby delegates to the Secretary of Transportation, Commonwealth of
51 Pennsylvania, Department of Transportation, its authority to file any application necessary with the
52 Pennsylvania Public Utility Commission and any other necessary agency to alter the highway/railroad
53 crossing at the 17th Street Bridge and to acquire the rights-of-way necessary to construct, operate and
54 maintain the Project.

55 **SECTION 2.** DURATION.

56 This delegation shall continue until the Project is complete or, at the election of the parties, the same
57 shall be otherwise terminated.

58

59 **SECTION 3.** PURPOSE AND SCOPE OF DELEGATION.

60 The Secretary of Transportation, acting for and on behalf of the Governor as well as himself, shall
61 have the authority to acquire the rights-of-way necessary for the Project amicably or by appropriation
62 from the Public Utility Commission (PUC).

63

64 **SECTION 4.** FINANCING.

65 One hundred percent of right-of-way acquisition costs, along with all other costs is being funded by
66 the Commonwealth of Pennsylvania, Department of Transportation.

67

68 **SECTION 5.** ORGANIZATIONAL STRUCTURE.

69 All acquisition activities in all phases of the Project, including but not limited to design engineering,
70 right-of-way plans, appraisal, negotiation, amicable settlement documents, appropriation proceedings
71 before the PUC, and all just compensation matters that may be brought before the County Court of
72 Common Pleas, or upon any appeal, shall be managed, directed and performed by the Commonwealth
73 of Pennsylvania, Department of Transportation.

74

75 **SECTION 6.** PROPERTY.

76 The Secretary of Transportation shall acquire property pursuant to all applicable policies and
77 procedures as necessary for the Project as authorized by Section 2003(e) of the Administrative Code
78 of 1929, as amended, 71 P.S. §513(e), for all transportation purposes which shall include, and not be
79 limited to, acquisitions for local roads and streets.

80 **SECTION 7.** OWNERSHIP AND MAINTENANCE.

81 The City of Harrisburg shall own and maintain both the existing and the new improved and replaced
82 17th Street roadway and 17th Street structure over the Norfolk Southern railroad tracks.

83

84 **SECTION 8.** DELEGATION.

85 Appropriate City of Harrisburg officials are authorized and directed to take such actions as are
86 necessary to effectuate this ordinance.

87

88 **SECTION 9.** SEVERABILITY.

89 If any provision, sentence, clause, section or part of this ordinance or the application thereof to any
90 person or circumstance is for any reason found to be unconstitutional, illegal or invalid by a court of
91 competent jurisdiction, such unconstitutionality, illegality or invalidity shall not affect or impair any
92 of the remaining provisions, sentences, clauses, sections or parts of this ordinance. It is hereby
93 declared as the intent of the Council of the City of Harrisburg that this ordinance would have been
94 adopted had such unconstitutional, illegal or invalid provision, sentence, clause, section or part not
95 been included herein.

96

97 **SECTION 10.** REPEALER.

98 All ordinances or provisions of ordinances in conflict with the provisions of this ordinance are hereby
99 repealed in so far as they are inconsistent herewith.

Exhibit "A"

100 **SECTION 11. EFFECTIVE DATE.**

101 This ordinance shall take effect in accordance with the law.

102

103

104 Seconded by: Councilman Jones

Exhibit "A"

Page 6 of 7

BILL NO. 4 -2024

YEAS		NAYS
✓	MS. DANIELS	
✓	MS. DAVIS	
✓	MS. GREEN	
✓	MR. JONES	
✓	MS. RAWLS	
✓	MR. RODRIGUEZ	
✓	MS. BOWERS	
YEAS	7	
NAYS	0	

Passed by City Council 9/10/2024

Danville L. Bowers
President of City Council

Attest Michael J. Parker
City Clerk

- Approved
- Return to City Council with objections

Wanda R. W. Williams
Mayor

HORIZONTAL ALIGNMENT AND CURVE DATA

17TH STREET
 STA 2+33.01
 N20°36'15"W

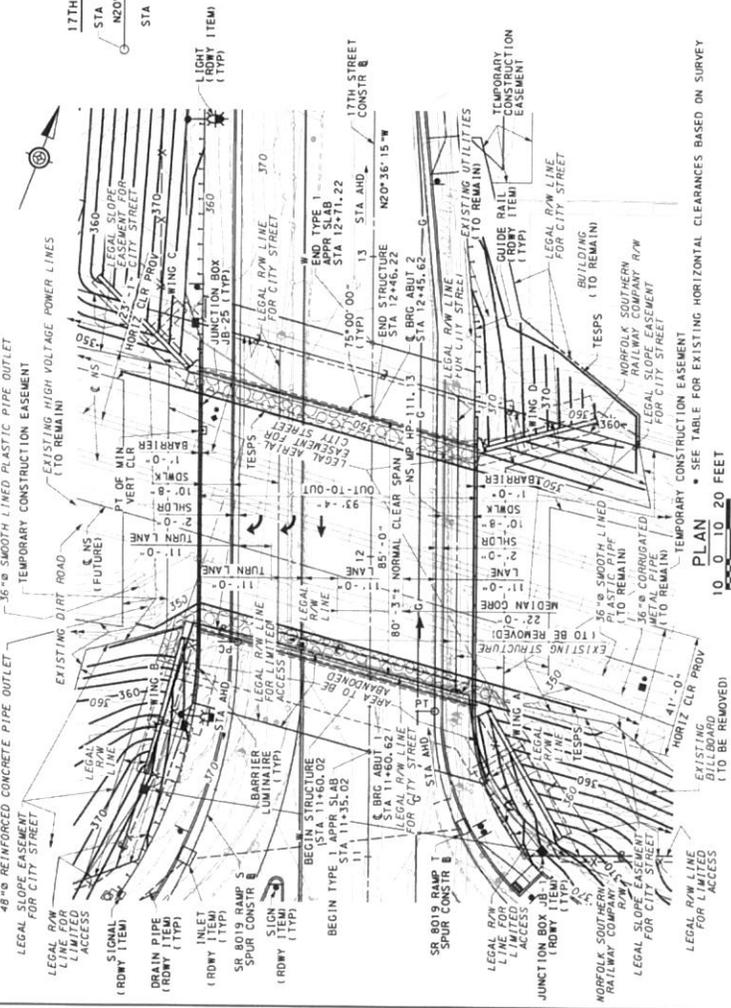
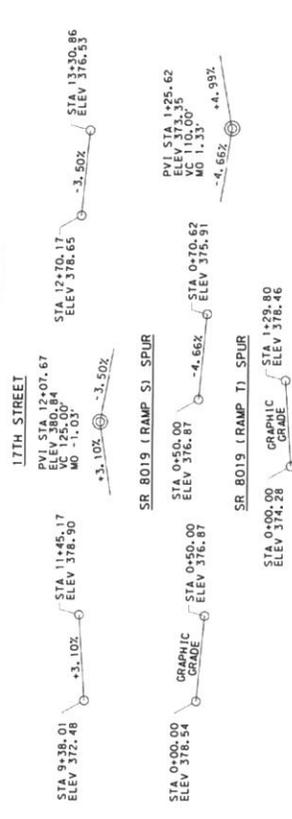
SR 8019 (RAMP S) SPIUR
 PI STA 1+30.93
 T = 130.93' RT
 D = 62°57'19"
 R = 175.00'
 E = 43.8600,00
 PT STA 2+24.81

SR 8019 (RAMP T) SPIUR
 PI STA 0+81.54
 T = 86.16'
 D = 62°57'19"
 R = 175.00'
 E = 43.8600,00
 PT STA 1+23.80

LEGEND

- SEE ROCK DETAIL, SHEET 4
- DIRECTION OF TRAFFIC
- PROPOSED CONTOUR
- PROPOSED WATER
- PROPOSED GAS
- PROPOSED R/W FENCE
- PROPOSED TELEVISION SUPPORT & PROTECTION SYSTEM (TEPS)
- EXISTING CONTOUR
- LEGAL RIGHT-OF-WAY
- EXISTING CABLE/TELEVISION
- EXISTING FIBER OPTIC UNDERGROUND
- EXISTING FIBER OPTIC
- EXISTING ELECTRIC
- EXISTING TELEPHONE
- EXISTING TELEPHONE UNDERGROUND
- EXISTING GAS
- EXISTING FENCE

VERTICAL ALIGNMENT AND CURVE DATA



PLAN • SEE TABLE FOR EXISTING HORIZONTAL CLEARANCES BASED ON SURVEY

HYDRAULIC DATA

DRAINAGE AREA = 0.35 SQ MILES

EXISTING	PROPOSED
25 YEAR DESIGN FLOOD VELOCITY (FPS)	351.37
MAGNITUDE (CFS)	370
100 YEAR FLOOD HEADWATER ELEVATION (FE)	351.99
MAGNITUDE (CFS)	370
FLOOD OF RECORD	NONE

- NOTES:
- FOR INDEX OF DRAWINGS, SEE SHEET 2.
 - FOR SUPPLEMENTAL DRAWINGS, SEE SHEET 3.
 - FOR DEMOLITION CONCEPT DETAILS, SEE SHEET 6.

REFERENCES:

TYPICAL SECTION & LOAD RATINGS	SHEETS
GENERAL NOTES	3 - 4
QUANTITIES	5
STAKE-OUT PLAN	10
STRUCTURE BORINGS	57 - 62

VERTICAL CLEARANCES

SYMBOL	EXISTING	PROPOSED	REQUIRED
•	21'-11"	24'-0"	23'-0"
•	22'-3"	25'-0"	23'-0"
•	-	25'-11"	23'-0"

•• VERTICAL CLEARANCE ASSUMES THE FUTURE TRACK ELEVATIONS ARE CONSISTENT WITH THE EXISTING ADJACENT TRACK TOP OF RAIL ELEVATIONS.

EXISTING HORIZONTAL CLEARANCES

SYMBOL	CLEARANCE	LOCATION
•	35'-11"	SOUTH ABUTMENT
•	24'-9"	NORTH ABUTMENT

CLEARANCE NOTES: CLEARANCES OF 22'-0" VERTICAL ABOVE TOP OF HIGHEST RAIL AND 13'-0" HORIZONTAL FROM CENTERLINE OF TRACK ARE TO BE MAINTAINED AT ALL TIMES. HORIZONTAL CLEARANCES ARE TO BE MAINTAINED AT ALL TIMES. FURTHER REDUCED FOR THE TEMPORARY CONSTRUCTION CONDITION WITHOUT WRITTEN PERMISSION FROM NORFOLK SOUTHERN.

Mark	Description	By	Chk'd	Date
	REVISIONS			



BMS STR ID: 22-7301-0000-0014 WPM/VECM PROJ: 113357 BRKEY: 70124

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION

DAUPHIN COUNTY
 SR 0083 SECTION B79

17TH STREET STA 12+03.12
 OVER NORFOLK SOUTHERN RAILWAY COMPANY
 1-SPAN COMPOSITE PS CONCRETE
 PA BULB-TEE BEAM BRIDGE
 GENERAL PLAN & ELEVATION

DATE: _____
 PREPARED BY: _____
 HNTB CORPORATION
 4507 NORTH FRONT STREET
 HARRISBURG, PA 17110

RECOMMENDED: _____
 SHEET 1 OF 62
 + ORIGINAL
 DRAWINGS

DISTRICT B-O BRIDGE ENGINEER
 S-42023

EXHIBIT C-1

GENERAL NOTES

DESIGN SPECIFICATIONS:

1. ASH TO LINED BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017, AND AS SUPPLEMENTED BY DESIGN MANUAL, PART 4, DECEMBER 2015.
 2. LIVE LOAD DISTRIBUTION TO GIRDBERS IS BASED UPON DM-4 DISTRIBUTION FACTORS.
 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:
 PRESTRESSED CONCRETE A671 523 (2-DIRECTIONAL)
 MAXIMUM ALLOWABLE TENSILE STRESS IN PRECOMPRESSED TENSILE ZONE 1 0.948 (47%)
 DEAD LOADS:
 1. INCLUDES SURFACE AREA DENSITY OF 0.30 KSF FOR FUTURE WEARING SURFACE ON THE DECK SLAB.
 2. INCLUDES A SURFACE AREA DENSITY OF 0.015 KSF FOR PERMANENT METAL DECK FORMS IN THE WALLS OF THE TOWERS.
 3. BEAMS 3, 4, 10 AND 11 INCLUDE 0.013 KIP/FT EACH FOR UTILITY AND SUPPORT.
 4. BEAMS 5-9 INCLUDE 0.095 KIP/FT EACH FOR UTILITY AND SUPPORT.

GENERAL:

1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH SPECIFICATIONS, PUBLICATION 408, ASHTO/AASHTO/AWS D1.5M/D1.5I-2015 BRIDGE WELDING CODE, AND CONTRACT SPECIAL PROVISIONS.
2. PROVIDE STRUCTURAL STEEL FOR INTERMEDIATE MID-SPAN DIAPHRAGMS CONFORMING TO A671 M270/M270M AS GALVANIZED IN ACCORDANCE WITH PUB 408, SECTION 1105.021(B). HARDWARE ARE TO BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH PUB 408, SECTION 1105.021(B).
3. PROVIDE 2" CONCRETE COVER ON REINFORCEMENT BARS, EXCEPT AS NOTED.
4. USE CLASS AA CP CEMENT CONCRETE IN DECK SLAB.
 USE CLASS AA CEMENT CONCRETE IN ALTERNATE SIDEWALKS, BARRIERS, TYPE 1 APPROACH SLABS, CONCRETE DIAPHRAGMS, CHECKWALLS, SHEAR BLOCKS, AND SLEEPER SLABS.
 USE CLASS A CEMENT CONCRETE IN ABUTMENTS BELOW BRIDGE SEAT, WINDOWLLS, AND FOOTINGS.
 USE CLASS C CEMENT CONCRETE BELOW THE BOTTOM OF FOOTINGS WHEN SPECIFIED.
 A HIGHER CLASS CONCRETE MAY BE SUBSTITUTED FOR A LOWER CLASS CONCRETE AT NO ADDITIONAL COST TO THE DEPARTMENT, IF APPROVED BY THE DISTRICT BRIDGE ENGINEER.
5. PROVIDE GRADE 60 REINFORCING STEEL BARS THAT MEET THE REQUIREMENTS OF ASTM A615/A615M, A616/A616M OR A 706/A 706M. DO NOT WELD GRADE 60 REINFORCING STEEL TO A PROPORTIONAL INCREASE IN CROSS-SECTIONAL AREA IF APPROVED BY THE DISTRICT BRIDGE ENGINEER. DO NOT USE RAIL STEEL A 986/A 986M REINFORCEMENT BARS. CUTTED REINFORCEMENT BARS IS INDICATED.
6. USE EPOXY-COATED REINFORCEMENT BARS EVERYWHERE EXCEPT AS INDICATED WITHIN THE BEAM DETAILS NOTES.
7. GALVANIZED REINFORCING STEEL BARS MAY BE SUBSTITUTED FOR EPOXY-COATED REINFORCING STEEL BARS AT NO ADDITIONAL COST TO THE DEPARTMENT.
8. RAKE-FINISH ALL HORIZONTAL CONSTRUCTION JOINTS, EXCEPT AS INDICATED.
9. CONSTRUCT DECK SLAB TRANSVERSE CONSTRUCTION JOINTS PARALLEL TO BRIDGE CENTERLINE OF BEARINGS.
10. CHAMFER EXPOSED CONCRETE EDGES 3/4" BY 3/4", EXCEPT AS NOTED.
11. ALL DIMENSIONS SHOWN ARE HORIZONTAL, EXCEPT AS NOTED.
12. DECK SLAB THICKNESS INCLUDES A 1/2" INTEGRAL WEARING SURFACE.
13. SUPERSTRUCTURE DIMENSIONS SHOWN ARE FOR A NORMAL TEMPERATURE OF 68°F.
14. PROVIDE MINIMUM EMBEDMENT AND SPLICE LENGTHS IN ACCORDANCE WITH STANDARD DRAWING BC-136M, UNLESS OTHERWISE INDICATED.
15. PREPARE BEARING AREAS AS SPECIFIED IN PUBLICATION 408, SECTION 1001.31(K)9.
16. BRIDGE IS NOT WEIGHT RESTRICTED. SEE PUBLICATION 408 SECTION 105.17 FOR CONSTRUCTION LOADING LIMITS.
17. DO NOT USE ADHESIVE ANCHORS IN A TENSION APPLICATION FOR PERMANENT INSTALLATIONS.
18. INSTALL ALL ADHESIVE ANCHORS IN A SUSTAINED TENSION APPLICATION FOR TEMPORARY INSTALLATIONS, INCLUDING DURING CONSTRUCTION.
19. LABORATORY ANALYSIS OF SAMPLES FROM CAULKING MATERIAL OBSERVED AT THE ABUTMENT AND DIAPHRAGM SHALL BE CONDUCTED TO DETERMINE THE PRESENCE OF ASBESTOS CONTAINING MATERIAL AND LEAD-BASED PAINT. INSPECTION REPORT AND SPECIAL PROVISION.

FOUNDATION NOTES:

GENERAL:

1. FOUNDATIONS MAY BE ORDERED BY THE REPRESENTATIVE AND DISTRICT GEOTECHNICAL SUPERVISOR AT ANY ELEVATION OR OF ANY DIMENSIONS NECESSARY TO PROVIDE A PROPER FOUNDATION.
2. FOUNDATION DRAINAGE DURING CONSTRUCTION. DIRECT RUNOFF AWAY FROM THE PROPOSED FOUNDATION FOOTPRINT.
3. EXISTING STEEL BEARING PILES AND CONCRETE PEDESTALS ARE ANTICIPATED TO BE ENCOUNTERED WITHIN THE EXCAVATION. CONTRACTOR SHALL BE ANTICIPATED TO BE EXTRACT THE EXISTING STEEL BEARING PILES IN ACCORDANCE WITH THE SPECIAL PROVISIONS. REMOVE EXISTING PEDESTALS IN THEIR ENTIRETY.
4. PERFORM EXPLORATORY AIR TRACK DRILLING WITHIN THE ABUTMENT 2 FOOTPRINT TO ACCORDANCE WITH SPECIAL PROVISION - EXPLORATORY AIR TRACK DRILLING.
5. NOT ALLOWED BE ENCOUNTERED ABOVE THE BOTTOM OF FOOTING ELEVATION. BLASTING IS NOT ALLOWED WITHIN THE FOUNDATION FOOTPRINT. EXCAVATE ALL ROCK MECHANICALLY.
6. SPREAD TO CONSTRUCTION OF SPREAD FOOTINGS. ALLOW THE DISTRICT GEOTECHNICAL SUPERVISOR TO DETERMINE THE LOCATION OF THE BOTTOM OF FOOTING ELEVATION AND REPLACE SOFT OR UNSUITABLE MATERIAL BELOW THE BOTTOM OF FOOTING ELEVATION AND REPLACE FOOTING ELEVATION. CONCRETE BEHIND THE BOTTOM OF FOOTING ELEVATION SHALL BE CEMENT CONCRETE TO THE BOTTOM OF FOOTING ELEVATION IN ACCORDANCE WITH THE SPECIAL PROVISION AND BACKFILL WITH CLASS C CEMENT CONCRETE SPECIAL PROVISION.
7. EXCAVATE ACCORDING TO CURRENT OSHA OR OTHER APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE STABILITY OF THE EXCAVATIONS.
8. NOTIFY THE DISTRICT GEOTECHNICAL SPECIALIST IF ANY DEVIATIONS FROM THE NOTED SUBSURFACE CONDITIONS ARE ENCOUNTERED DURING CONSTRUCTION.
9. IF A SINKHOLE IS ENCOUNTERED DURING CONSTRUCTION, IMMEDIATELY CONTACT THE DISTRICT GEOTECHNICAL SPECIALIST.
10. CONSIDER THE SOIL ENVIRONMENT AS POTENTIALLY CORROSIVE. EPOXY COAT ALL EXPOSED SURFACES.
11. SITE CLASS IS NOT CLASS E OR F.

MICROPILE FOOTINGS:

1. PROVIDE MATERIALS AND CONSTRUCT MICROPILES IN ACCORDANCE WITH PUBLICATION 408, SECTION 1007.
2. EACH INDIVIDUAL PILE BOND ZONE MUST CONTAIN AN ESTIMATION OF 11 FEET OF COMPACTED BEDROCK OR AS DETERMINED FROM LOAD TEST DATA.
3. SOIL AND VOIDS DO NOT COUNT TOWARD THE BOND ZONE LENGTH.
4. NO SOIL SEAM, IN EXCESS OF 5 FEET, WILL BE ACCEPTABLE WITHIN THE BOND ZONE.
5. NO SOIL SEAM, LESS THAN 5 FEET, WILL BE ACCEPTABLE WITHIN THE BOND ZONE.
6. NO BOND ZONE WILL TERMINATE WITHOUT A MINIMUM OF 5 FEET OF COMPETENT ROCK AT THE BOTTOM OF THE BOND ZONE.
7. PERFORM LOAD TESTING IN ACCORDANCE WITH PUBLICATION 408, SECTION 1003.11(2). INSTALL ONE VERIFICATION LOAD TEST AT ABUTMENT 2, WEST AND MIDDLE. PERFORM VERIFICATION LOAD TESTS ON PRE-PRODUCTION MICROPILES. INSTALLED OUTSIDE THE BOND ZONE. AS A RESULT OF LOAD TESTS AND INSTALLATION RECORDS, THE DISTRICT GEOTECHNICAL SPECIALIST OR REPRESENTATIVE FOR APPROVAL.
8. MICROPILE FOOTINGS DESIGNED WITH A STRENGTH AXIAL CAPACITY OF 400.0 K KIPS.
9. ABUTMENT 2 (WEST) AND WINDOWLL C ARE DESIGNED SUCH THAT THE LATERAL LOADS ARE RESISTED BY THE BATTERED MICROPILES ONLY.

* AS SUPPLEMENTED BY ATTACHMENT BC-788 MODIFIED "SPRAY-ON GLEASER/SPRINKLING DETAILS"

CLASSIFICATION	REVISION	DATE
BACKFILL AT STRUCTURES	BC-11M	06/01/2010
GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS	BC-12M	01/01/2022
ELECTRICAL DETAILS	BC-13M	07/27/2023
PERMANENT METAL DECK FORMS	BC-14M	02/19/2021
ANCHOR SYSTEMS	BC-15M	11/23/2022
WALL CONSTRUCTION AND EXPANSION JOINT DETAILS	BC-16M	09/20/2016
REINFORCEMENT BAR FABRICATION DETAILS	BC-17M	11/23/2022
CONCRETE DECK SLAB DETAILS	BC-18M	01/31/2019
PREPARED AND SHOWN COMPRESSIVE SEAL JOINT	BC-19M	01/31/2019
STEEL MID-SPAN DIAPHRAGMS FOR P/S CONCRETE	BC-20M	01/31/2019
ASHTO 1-BEAM AND PA BULB-TEE BEAM BRIDGES	BC-21M	11/23/2022
MISCELLANEOUS PRESTRESSING DETAILS	BC-22M	11/23/2022
TYPICAL WATERPROOFING AND EXPANSION DETAILS	BC-23M	11/23/2022
PRESTRESSED BRIDGE & SUPPORT DETAILS	BC-24M	01/31/2019

SUPPLEMENTAL DRAWINGS

DMG. NO.	REC. DATE

BRIDGE 4

EXISTING STRUCTURE PLANS:

1. DO NOT CONSIDER ANY OF THE DATA ON THE EXISTING STRUCTURE SUPPLIED IN THE ORIGINAL DESIGN DRAWINGS OR MADE AVAILABLE TO YOU BY THE DEPARTMENT OR ITS WILL ENCOUNTER IN THE FIELD.
2. THE INFORMATION SHOWN ON THE PLANS FOR THE EXISTING BRIDGE IS NOT PART OF THE PLANS, PROPOSAL OR CONTRACT AND NO TO BE. THERE IS NO EXPRESSED OR IMPLIED WARRANTY OF THE UNIT PRICES USED FOR BIDDING PURPOSES. THERE IS NO EXPRESSED OR IMPLIED WARRANTY OF THE INFORMATION SHOWN ON THESE PLANS. THE BIDDER IS NOT TO RELY ON THE INFORMATION SHOWN ON THESE PLANS FOR BIDDING PURPOSES. THE BIDDER IS NOT TO RELY ON THE COST AND/OR QUANTITIES OF WORK TO BE PERFORMED OR DIFFER FROM THOSE INDICATED. SEE JANUARY 1972 PLAN SHEETS FOR EXISTING STRUCTURE INFORMATION.
3. REMOVE EXISTING BRIDGE IN ACCORDANCE WITH THE TRAFFIC CONTROL PLANS AND SPECIAL PROVISIONS.

UTILITY NOTES:

1. COORDINATE, OBTAIN, AND CONDUCT ALL WORK RELATED TO PUBLIC AND PRIVATE UTILITIES IN ACCORDANCE WITH PUBLICATION 408, SECTIONS 109.06 AND 101.12.
2. COORDINATE WITH CAPITAL REGION WATER. SEE WATER UTILITY RELOCATION ALSO PLAN.
3. COORDINATE WITH GAS UTILITY RELOCATION FOR THE GAS UTILITY RELOCATION. SEE GAS UTILITY RELOCATION ALSO PLAN.
4. COORDINATE WITH CAPITAL REGION WATER AND UGI UTILITIES, INC. PRIOR TO DISCONNECTED/ABANDONED AND TEMPORARY SERVICE PROVIDED BEFORE EXISTING BRIDGE REMOVAL.
5. COORDINATE WITH PPL CORPORATION FOR DE-ENERGIZATION OF THE EXISTING AERIAL HIGH VOLTAGE POWER LINES.

GAS UTILITY SUPPORT HANGER NOTES:

1. PROVIDE STRUCTURAL STEEL FOR UTILITY SUPPORT MEMBERS CONFORMING TO ASHTO M270/M270M GRADE 36 (ASTM A709 /A709M GRADE 36).
2. PROVIDE HIGH-STRENGTH BOLTS, INCLUDING NUTS AND WASHERS, CONFORMING TO ASHTO M164 (ASTM A325) DESIGNATION.
3. ALL STEEL MEMBERS AND HARDWARE ARE TO BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH PUB 408, SECTION 1105.021(B).
4. PRESTRESSED WEB INSERTS ARE TO BE GALVANIZED OR COMPLETELY ZINC-ELECTROPLATED. DRILLING IN THE BEAMS IS NOT PERMITTED. COST OF INSERTS IS INCIDENTAL TO THE PRESTRESSED BEAMS.
5. PRESTRESSED BEAMS ARE TO PROVIDE A MINIMUM PULLOUT STRENGTH OF 1-5 KIPS.
6. PLACE THE SUPPORT ANGLES PERPENDICULAR TO THE BEAMS.
7. MAXIMUM SPACING BETWEEN HANGERS IS 20'-0".
8. ADJUST ATTACHMENT ROOFS, AS REQUIRED, TO PROVIDE PROPER CLEARANCE THROUGH DIAPHRAGM OPENINGS.
9. THE NUTS ON ALL ROOFS ARE TO BE TIGHTENED FOR A SNAK ASSEMBLY ONLY AND LOCKED.

ARCHITECTURAL DETAIL NOTES:

1. ALL CONCRETE TO BE NATURAL COLOR.
2. PROVIDE A MODIFIED PROTECTIVE FENCE AS INDICATED ON SHEET 55 AND IN ACCORDANCE WITH SPECIAL PROVISION - RAILROAD PROTECTIVE FENCE, CURVED TOP, VINYL-COATED FEDERAL COLOR #37031, BLACK

Work	Description	By	CHK'd	Rec'd	Date

BMS STR 10122-7301-0000-0014 MPM/ECMS PROJ:113357 BRKEV70124



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
DAUPHIN COUNTY
SR 0083 SECTION B79
 17TH STREET STA 12+03.12
 OVER NORFOLK SOUTHERN RAILWAY COMPANY
 1-SPAN COMPOSITE PS CONCRETE
 PA BULB-TEE BEAM BRIDGE
GENERAL NOTES 1

PREPARED BY:
 HNTB CORPORATION
 4507 NORTH FRONT STREET
 SUITE 300
 HARRISBURG, PA 17110

RECOMMENDED
 SHEET 3 OF 62
 S-42023

