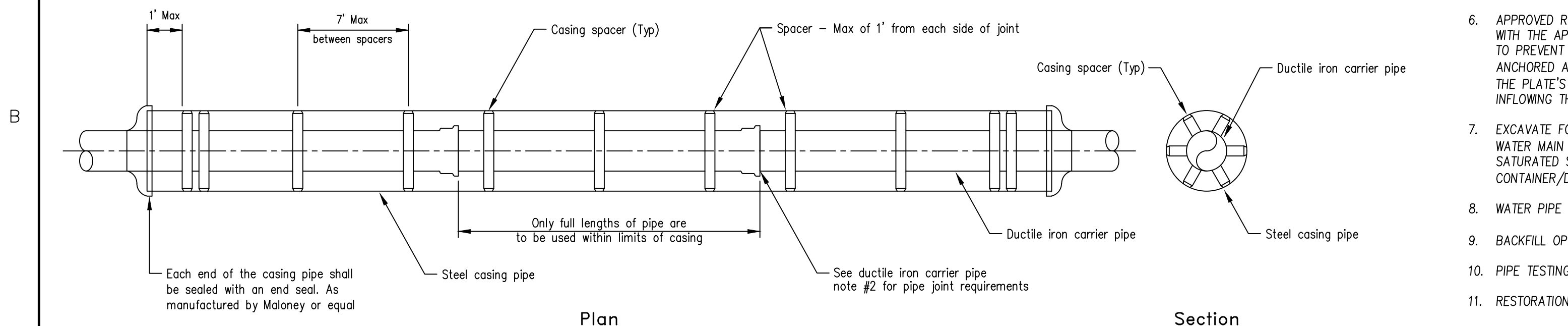
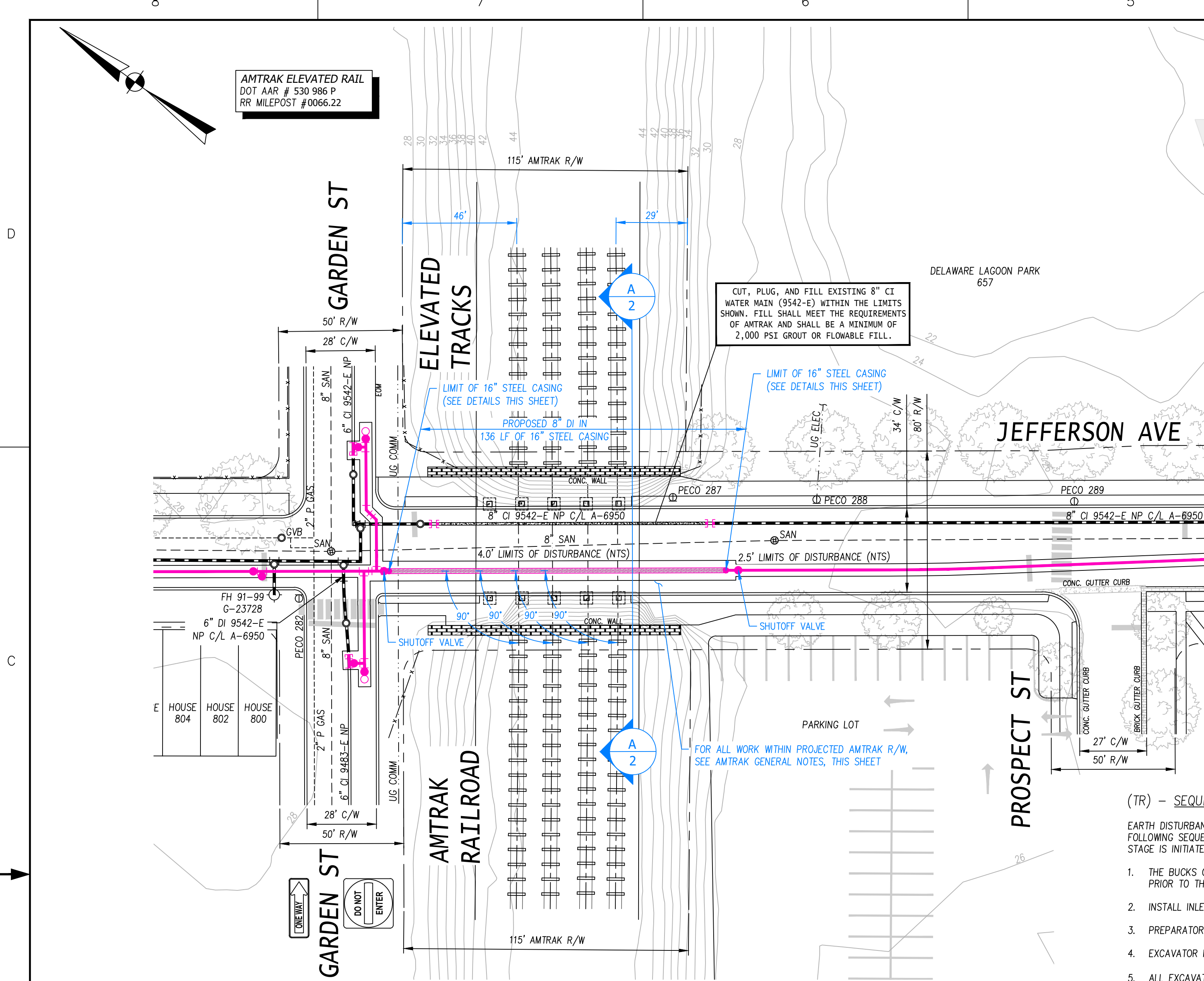




- STEEL CASING PIPE NOTES:**

 - ALL CASING PIPE UP TO 24" DIAMETER SHALL BE ASTM A53 GRADE B, 0.50" WALL THICKNESS, STANDARD WEIGHT, MANUFACTURED IN ACCORDANCE WITH AWWA C200.
 - CASING PIPE SHALL BE REQUIRED FOR WATER MAINS CROSSING OVER AND UNDER HIGHWAYS, RAILROADS, OR ANY OTHER LOCATION WHERE A LEAKING PIPE CAN CREATE A HAZARDOUS CONDITION. IN GENERAL, CASING PIPE IS NOT REQUIRED FOR MAINS CROSSING BODIES OF WATER.
 - ALL EXPOSED CASING PIPE SHALL BE SHOP BLASTED AND COATED EXTERNALLY IN ACCORDANCE WITH THE STATE DOT PAINT SPECIFICATION FOR STRUCTURAL STEEL.
 - ALL STEEL PIPE BELOW GRADE SHALL BE WRAPPED WITH PROTECTO-WRAP 310, COLD APPLIED PIPE TAPE OR CARBOLINE COATING. IN CASES WHERE STEEL PIPE RUNS ABOVE GRADE, COATING SHALL EXTEND TO A MINIMUM OF 18" BEYOND FINISHED GRADE. IF APPLICABLE, REFER TO THE CATHODIC PROTECTION PLAN FOR ADDITIONAL CORROSION PROTECTION MEASURES.
 - IN CASES WHERE STEEL PIPE IS TO BE WELDED IN THE FIELD, PIPE SHALL BE ORDERED WITHOUT COATING 6" FROM EACH END TO ALLOW FOR BEVELING AND WELDING IN THE FIELD.
 - ALL WELDERS SHALL BE CERTIFIED IN ACCORDANCE WITH THE API 1104 CODE OR AN APPROVED EQUAL. CONTRACTOR SHALL PROVIDE OWNER WITH EVIDENCE OF CURRENT WELDER QUALIFICATION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
 - ALL PRODUCTION WELDS SHALL BE PERFORMED, TESTED AND INSPECTED IN CONFORMANCE WITH THE CURRENT EDITION OF AWWA C206.
 - ANY WELDER WHO MAKES A PRODUCTION WELD THAT FAILS TO COMPLY WITH THE REQUIREMENTS OF AWWA C206 MAY BE IMMEDIATELY DISQUALIFIED FROM CURRENT AND/OR FUTURE WORK AT THE DISCRETION OF THE OWNER.
 - STEEL CASING SHALL BE SO CONSTRUCTED AS TO PREVENT LEAKAGE OF ANY SUBSTANCE FROM THE CASING THROUGHOUT ITS LENGTH EXCEPT AT ENDS. CASING SHALL BE SO INSTALLED AS TO PREVENT THE FORMATION OF A WATERWAY UNDER THE RAILROAD, WITH AN EVEN BEARING THROUGHOUT ITS LENGTH, AND SHALL SLOPE TO ONE END.
- DUCTILE IRON CARRIER PIPE NOTES:**

 - ALL DUCTILE IRON PIPE SHALL BE CLASS 52 (MIN.), CEMENT LINED, INTERNALLY AND EXTERNALLY COATED AS PER AWWA C150 (LATEST SPECS).
 - WHEN USING TYTON (OR PUSH-ON) JOINT PIPE, THE USE OF FIELD-LOK (RESTRAINT TYPE) GASKETS ARE REQUIRED AT EACH JOINT WITHIN THE CASING PIPE AND (2) PIPE JOINTS PAST THE CASING END SEAL ON EACH END. PIPE IS TO BE PUSHED THROUGH CASING, NOT PULLED. CONSULT PROJECT CONSTRUCTION PLANS IF OTHER TYPE OF RESTRAINT PIPE IS BEING INSTALLED AND FOLLOW THOSE SPECIFICATIONS ACCORDINGLY.
- Section**

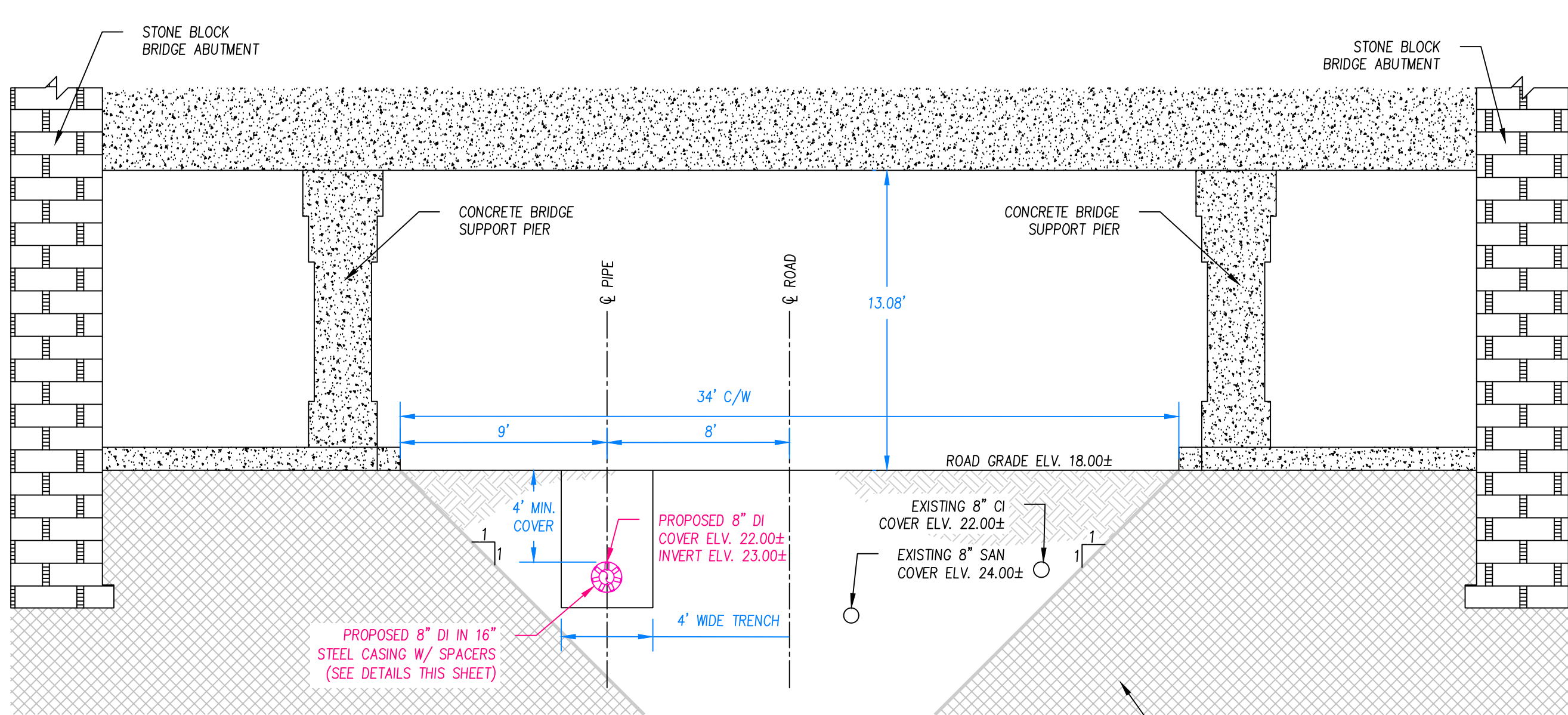
Weld steel casing joint, see steel casing weld detail option 1 or 2

Steel Casing Pipe

Steel Casing Weld Detail (Typ)

Option 1

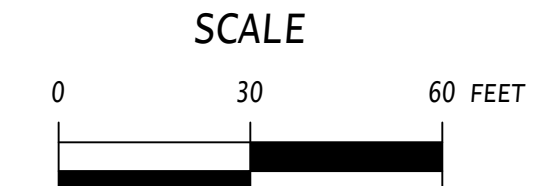
Option 2
- | Nominal Pipe Diameter | Minimum Nominal Casing I.D. |
|-----------------------|-----------------------------|
| 8" | 16" |
| 10" | 18" |
| 12" | 20" |
| 16" | 24" |
| 20" | 36" |



SECTION A-A (LOOKING NORTHEAST)
JEFFERSON AVE AT RAILROAD BRIDGE
US DOT # 530 986 P
MILEPOST 0066.22
SCALE 1"=5'

- AMTRAK GENERAL NOTES**
- ALL WORK ON OR ADJACENT TO RAILROAD PROPERTY MUST COMPLY WITH AMTRAK ENGINEERING PRACTICES EP3014 - MAINTENANCE AND PROTECTION OF RAILROAD TRAFFIC DURING CONTRACTOR OPERATIONS.
 - DESIGN AND CONSTRUCTION MUST COMPLY WITH AMTRAK ENGINEERING PRACTICES EP3005 - PIPELINE OCCUPANCY. PRIOR TO CONSTRUCTION OPERATIONS, CONTRACTOR MUST SUBMIT, AT A MINIMUM, THE FOLLOWING TO AMTRAK FOR REVIEW AND APPROVAL: CONSTRUCTION PROCEDURE MEANS AND METHODS, SCHEDULE, DETERMINING SYSTEM (IF ANY), AND CALCULATIONS, AS APPLICABLE. ALL CALCULATIONS MUST BE SIGNED AND STAMPED/SEALED BY A LICENSED ENGINEER REGISTERED IN THE STATE.
 - ALL UNDERGROUND UTILITIES, CABLE, AND FACILITIES MUST BE LOCATED AND PROTECTED BEFORE ANY EXCAVATING, DRILLING, BORING/DIRECTIONAL DRILLING, GROUND PENETRATING ACTIVITIES, OR CONSTRUCTION TAKES PLACE. THIS INCLUDES RAILROAD AND COMMERCIAL UTILITIES, CABLES, DUCT LINES, AND FACILITIES. THESE ACTIVITIES WILL NOT BE PERFORMED IN CLOSE PROXIMITY TO THE RAILROAD DUCT LINES UNLESS MONITORED BY ON-SITE AMTRAK COMMUNICATIONS AND SIGNAL (C&S) DEPARTMENT PERSONNEL. HAND DIGGING MAY BE REQUIRED, AS DIRECTED BY AMTRAK THROUGH THE ON-SITE AMTRAK C&S SUPPORT PERSONNEL. AMTRAK MAINTAINS THE RIGHT TO ACCESS ALL EXISTING CABLES AND CONDUITS THROUGHOUT CONSTRUCTION. AMTRAK ALSO RESERVES THE RIGHT TO UPGRADE AND INSTALL NEW CABLES AND CONDUITS IN THE AFFECTED AREA. THE "ONE-CALL" PROCESS MUST BE FOLLOWED. BE AWARE THAT AMTRAK IS NOT PART OF THE ONE-CALL PROCESS. CONTACT AMTRAK ENGINEERING TO HAVE ALL RAILROAD UNDERGROUND UTILITIES AND ASSETS LOCATED. IF REQUESTED BY AMTRAK, EXISTING DEPTHS OF UTILITIES BEING CROSSED MUST BE VERIFIED THROUGH TEST PITS PERFORMED BY THE CONTRACTOR AS DIRECTED BY AND UNDER THE DIRECT SUPERVISION OF AMTRAK C&S SUPPORT PERSONNEL. PRECAUTIONS MUST BE TAKEN TO PREVENT ANY INTERRUPTION TO RAILROAD OPERATION.
 - ANY WORK (OR EQUIPMENT BEING STAGED ON-SITE DURING CONSTRUCTION) PERFORMED AT OR NEAR A RAILROAD CROSSING MUST NOT OBSTRUCT THE VIEW OF FLASHING LIGHT UNITS OR GATES TO ONCOMING TRAFFIC.
 - PRIOR TO ENTERING AMTRAK'S PROPERTY FOR ANY WORK, THE CONTRACTOR MUST EXECUTE AMTRAK'S STANDARD TEMPORARY PERMIT TO ENTER UPON PROPERTY (PTE). THE FULLY EXECUTED PTE, WRITTEN NOTICE TO PROCEED FROM AMTRAK THAT ALL REQUIREMENTS OF THE PTE HAVE BEEN MET AND PROOF OF SAFETY TRAINING MUST, AT ALL TIMES, BE FURNISHED BY THE CONTRACTOR AT THE PROJECT SITE.
 - ALL PERSONS THAT ARE ON OR ADJACENT TO THE RAILROAD PROPERTY MUST SUCCESSFULLY COMPLETE THE CONTRACTOR ORIENTATION TRAINING. ALL CONTRACTORS MUST CARRY THEIR "AMTRAK CONTRACTOR ROADWAY WORKER PROTECTION" CARD WITH THEM AT ALL TIMES WHILE ON OR ADJACENT TO RAILROAD PROPERTY.
 - ANY DEBRIS OR DAMAGE RESULTING FROM WORK SHALL BE IMMEDIATELY REPORTED TO THE RAILROAD. RAILROAD SHALL BE REPAIRED BY RAILROAD FORCES AT PROJECT EXPENSE.
 - ELECTROMAGNETIC INTERFERENCE (EMI) CAUSED BY HIGH VOLTAGE TRANSMISSION LINES CAN HAVE AN IMPACT ON BURIED PIPELINES AND COMMUNICATION CABLE. EMI CAN HAVE AN IMPACT ON RAILROAD TRACK CIRCUITS, SIGNAL CIRCUITS AND FREQUENCIES ASSOCIATED WITH APPROACH OVERLAY AND ISLAND CIRCUITS FOR GRADE CROSSING EQUIPMENT. THE TRANSMISSION OWNER AND CONSTRUCTION COMPANY IS RESPONSIBLE FOR THE ELECTROMAGNETIC COMPATIBILITY BETWEEN THE TRANSMISSION LINES INSTALLED AND THE AMTRAK C&S SYSTEM TO MITIGATE THE RISK OF UNINTENTIONAL GENERATION, PROPAGATION AND RECEPTION OF ELECTROMAGNETIC WAVES THAT CAN CAUSE EMI OR EVEN PHYSICAL DAMAGE.
 - SHOULD EMI BE FOUND AT THIS LOCATION, THE TRANSMISSION OWNER MUST CONDUCT APPROPRIATE EMI/EMF STUDIES AND PROVIDE REMEDIES TO CORRECT ANY INDUCTIVE INTERFERENCE WITH RAILROAD FACILITIES AT OWNER'S EXPENSE.

PIPE CROSSING DATA	CARRIER PIPE	CASING PIPE
CONTENTS TO BE HANDLED	WATER	NONE
OPERATING PRESSURE (PSI)	80	N/A
NOMINAL PIPE SIZE (")	8"	16"
O.S. DIAMETER (")	9.05"	16.00"
I.S. DIAMETER (")	8.39"	15.00"
WALL THICKNESS (")	0.33"	0.50"
WEIGHT PER FOOT (LBS)	29	83
MATERIAL	DUCTILE	STEEL
PROCESS OF MANUFACTURE	CENTRIFUGALLY CAST	WELDED ROUND PIPE
SPECIFICATION	AWWA C150/C151	ASTM A53 & AWWA C200
GRADE OR CLASS	THICKNESS CLASS 52	A53 GRADE B
WORKING PRESSURE (PSI)	150	N/A
TYPE OF JOINT	MECHANICAL	WELDED
TYPE OF COATING	BITUMASTIC	BITUMASTIC
DETAILS OF CATHODIC PROTECTION	COATING	WRAP OR COATING
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	N/A	FLEXIBLE OIL/WATER RESISTANT RUBBER END SEALS
METHOD OF INSTALLATION	TRENCHING	TRENCHING
SPECIFIC MIN. YIELD STRENGTH	42,000 PSI	35,000 PSI
CHARACTER OF SUBSURFACE MATERIAL	UNKNOWN	UNKNOWN
APPROXIMATE GROUND WATER LEVEL	UNKNOWN	UNKNOWN
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS	N/A	N/A



O		ISSUED FOR CONSTRUCTION	
O		DESIGN COMPLETION	
NO	DATE	REVISION	INTL
AQUA PENNSYLVANIA, INCORPORATED 762 LANCASTER AVENUE, BRYN MAWR, PA., 19010			
PROJECT PLAN FOR: JEFFERSON AVE PROJECT AMTRAK ROE PLAN BRISTOL BOROUGH, BUCKS COUNTY			
DRAWN BY:	JDB	CHK'D BY:	JMM
DATE:	3/11/2025	SCALE:	N.T.S.
PROJECT No:	554.17	CPA ID No:	
APPROVED			
			EXT No: 20275-E
			PLATE: 1014, 1E14, 1E15
			A - 63315
			SHEET 6 OF 13



**BEFORE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

In Re: Application of Aqua Pennsylvania, Inc. for Approval of the alteration of the crossing (U.S DOT – 530 986 P) where Jefferson Avenue crosses above grade tracks operated by Amtrak at a bridge at milepost 0066.22 in Bristol Borough in Bucks County, Pennsylvania.

Application Docket No.:

To the Pennsylvania Public Utility Commission:

1. The name and address of applicant is Aqua Pennsylvania, Inc., 762 West Lancaster Avenue, Bryn Mawr, Pennsylvania 19010.
2. The name and address of the applicant's attorney is Frances P. Orth, Esquire, 762 West Lancaster Avenue, Bryn Mawr, Pennsylvania 19010.
3. Aqua Pennsylvania, Inc. is the local public water supplier.
4. By this application, approval is sought to install a 8-inch DIP pipe in the road in Amtrak ROW at the crossing of Jefferson Avenue located at milepost 0066.22. The crossing number is 530 986 P operated by Amtrak in Bristol Borough in Bucks County, Pennsylvania.
5. To the best of the applicant's knowledge, the name and addresses of the persons, parties and entities potentially concerned in or affected by the proposed construction are:

PECO 2301 Market Street P.O. Box 8699 Philadelphia, PA 19101 Attn: Engineering Department	Gilmore and Associates INC 65 E Butler Ave Suite 100 New Britain, PA 18901 Attn: Alex Dyke
Amtrak 2955 Market Street Philadelphia, PA 19104 Attn: Candice Hager	PAPUC Railroad Crossing Applications Penn DOT Right of Way and Utilities Division Penn Dot Bureau of Design P.O. Box 3362 Attn: Mark Chappell PE Chief
PennDOT District 6-0 7000 Geerdes Boulevard King of Prussia, PA 19406-1525 Attn: Mary Ann Lang	Karen Cummings Assistant Counsel in Charge Department of Transportation Office of the Chief Counsel 9 th Floor P.O. Box 8212 Harrisburg, PA 17105-8212
Bucks County Water and Sewer Authority 1275 Almshouse Rd Warrington, PA 18976 Attn: James Napleon	Comcast 114 Ridge Rd Sellersville, PA 18960 Attn: 18960 Attn: Wyatt Parrish

Verizon Business Formerly MCI 7000 Weston Pkwy Cary, NC 27513 Attn: Victor Wood	Lumen Formerly Level 3 1025 Eldorado Blvd Broomfield, CO 80021 Attn: Lumen Operator Personnel
Total Engineering & Consulting Services LLC 1547 DeKalb St Norristown PA 19401 Attn: Elizabeth Sobel	

6. The cost of this portion of the project is estimated to be \$185,000.00. The project will be entirely funded and maintained by Aqua Pennsylvania, Inc.

7. The alteration is necessary or proper because it will improve water distribution operations and maintenance.

Wherefore, applicant requests the Commission approve this highway railroad crossing application.

RESPECTFULLY SUBMITTED:

Aqua Pennsylvania, Inc.

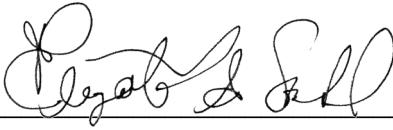
Date: 4/18/2025

By: 
Scott R. Steffy, Engineer III

VERIFICATION

I, Elizabeth Sobel, Vice President at Total Engineering and Consulting Services, LLC., hereby state that the facts above set forth are true and correct (or 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: _____

A handwritten signature in black ink, appearing to read "Elizabeth Sobel", is written over a horizontal line.

Elizabeth Sobel

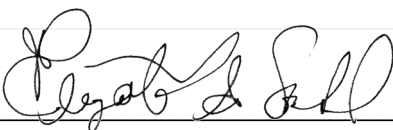
CERTIFICATE OF SERVICE

I, Elizabeth Sobel, hereby certify that I have this day served a true copy upon the participants, listed below, in accordance with the requirements of 52 PA Code Section 1.54 regarding the Application of Aqua Pennsylvania, Inc. for an upgrading to an existing water main installation at the crossing (U.S. DOT – 530 986 P) where Jefferson Avenue crosses above grade tracks operated by Amtrak located at milepost 0066.22 at crossing 530 986 P in Bristol Borough in Bucks County, Pennsylvania.

By U.S. 1st Class Mail

PECO 2301 Market Street P.O. Box 8699 Philadelphia, PA 19101 Attn: Engineering Department	Gilmore and Associates INC 65 E Butler Ave Suite 100 New Britain, PA 18901 Attn: Alex Dyke
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Total Engineering & Consulting Services LLC 1547 DeKalb St Norristown PA 19401 Attn: Elizabeth Sobel	

Dated: _____



Elizabeth Sobel