

June 26, 2019

Via Electronic Filing

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

Re: Docket No. A- 2019-_____
South Hanover Street, Pottstown, PA
Gas Main Replacement Project

Dear Secretary Chiavetta:

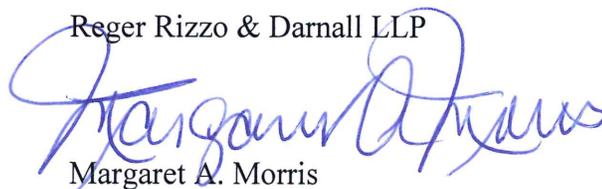
Attached for filing is the Application of PECO Energy Company for approval to alter the public at-grade crossing (DOT # 589 327C) to install a 8" gas main inside of a 12" casing pipe, along South Hanover Street crossing Norfolk Southern tracks, in Pottstown Borough, Montgomery County.

As indicated on the Certificate of Service, a copy of the Application has been provided to the Service List in the manner indicated.

If there are any questions, please do not hesitate to contact me.

Very truly yours,

Reger Rizzo & Darnall LLP



Margaret A. Morris

MAM/lam
Attachment

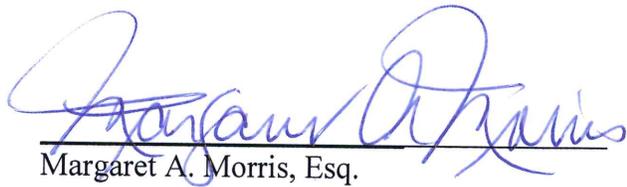
cc: F. Scott DiCriscio, P.E., PA Public Utility Commission [w/enc.]
Ward Smith, Exelon Business Services [w/enc.]
Service List [w/enc.]

Re: Docket No. A- 2019-_____
South Hanover Street, Pottstown, PA
Gas Main Replacement Project

CERTIFICATE OF SERVICE

I hereby certify that a true and correct copy of the foregoing document has been served upon the following persons on the attached service list, *via* first class mail, in accordance with the requirements of 52 Pa. Code § 1.54 (relating to service by a participant).

Dated: June 26, 2019


Margaret A. Morris, Esq.

Re: Docket No. A- 2019-_____
S. Hanover Street, Pottstown, PA
Gas Main Replacement

SERVICE LIST

DAN WEAND, PRESIDENT
POTTSTOWN BOROUGH COUNCIL
BOROUGH HALL
100 E. HIGH ST.
POTTSTOWN, PA 19464

DOUG YERGER
DIRECTOR
POTTSTOWN PUBLIC WORKS
DEPARTMENT
BOROUGH HALL
100 E. HIGH ST.
POTTSTOWN, PA 19464

LEO BAGLEY
MONTGOMERY COUNTY PLANNING
COMMISSION
1 MONTGOMERY PLAZA, STE. 201
NORRISTOWN, PA 19404-0311

JOSH SHAPIRO, CHAIR
MONTGOMERY COUNTY
COMMISSIONERS
1 MONTGOMERY PLAZA, STE. 800
NORRISTOWN, PA 19404

GINA D'ALFONSO, ESQUIRE
PA DEPARTMENT OF
TRANSPORTATION
OFFICE OF CHIEF COUNSEL, 9TH
FLOOR
P. O. BOX 8212
HARRISBURG, PA 19105-8212

MARK CHAPPELL
PA DEPARTMENT OF
TRANSPORTATION
BUREAU OF DESIGN
PE CHIEF
ROW & UTILITY DIVISION
P. O. BOX 3362
HARRISBURG, PA 17105-3362

LESTER TOASO
PA DEPARTMENT OF
TRANSPORTATION
EXECUTIVE DIRECTOR
DISTRICT 6-0
7000 GEERDES BOULEVARD
KING OF PRUSSIA, PA 19406

NORFOLK SOUTHERN RAILROAD
LEGAL DEPARTMENT
1717 ARCH STREET, 13TH FLOOR
PHILADELPHIA, PA 19103

SEPTA
LEGAL DEPARTMENT
1234 MARKET STREET, 5TH FLOOR
PHILADELPHIA, PA 19107

**BEFORE THE
PENNSYLVANIA PUBLIC UTILITY COMMISSION**

Application of PECO Energy Company for the :
Approval to alter the public at-grade crossing :
(DOT # 589 327C) to install an 8” gas main : Docket No. A-2019-_____
Inside of a 12” casing pipe, along South Hanover :
Street crossing Norfolk Southern Tracks, in :
Pottstown Borough, Montgomery County. :

**APPLICATION OF PECO ENERGY COMPANY TO INSTALL AN 8” GAS MAIN
INSIDE OF A 12” CASING PIPE, ALONG SOUTH HANOVER STREET CROSSING
NORFOLK SOUTHERN TRACKS, IN POTTSTOWN BOUROUGH
MONGOMERY COUNTY**

TO PENNSYLVANIA PUBLIC UTILITY COMMISSION:

1. The name and address of the Applicant is PECO Energy Company, 2301 Market Street, Philadelphia, PA 19101-8699 (Applicant or PECO).

2. The Applicant is a public utility incorporated under Delaware Law and is a subsidiary corporation of the Exelon Corporation. The Applicant, *inter alia*, provides electric service in Pennsylvania as well as other states in the eastern portion of the United States. As an electric utility, PECO avers it has the corporate right to utilize the public at-grade crossing, DOT #589 327C, (Crossing) along South Hanover Street crossing Norfolk Southern tracks, in Pottstown Borough, Montgomery County to enhance the quality of service provided to its customers in this area (Project).

3. PECO is represented by the following counsel:

Margaret A. Morris, Esquire (authorized to receive service)
Reger Rizzo & Darnall LLP
Cira Centre, 13th Floor
2929 Arch Street
Philadelphia, PA 19104

(215) 495-6524 (voice)
(215) 495-6600 (fax)
mmorris@regerlaw.com

Ward L. Smith, Esquire
Exelon Business Services Group
2301 Market Street
P.O. Box 8699
Philadelphia, PA 19101-8699
(215) 841-6863 (voice)
(215) 568-3389 (fax)
ward.smith@exeloncorp.com

4. The Applicant proposes to install an 8” gas main inside of a 12” casing pipe along South Hanover Street crossing Norfolk Southern tracks as shown on the Plan and Profile drawings attached hereto as Exhibit A.

5. PECO has contacted the entities listed below with a letter and plans explaining its intention to obtain permission to alter the Crossing described herein and the reasons for the proposed alterations:

Dan Weand, President
Pottstown Borough Council
Borough Hall
100 E. High St.
Pottstown, PA 19464

Josh Shapiro, Chair
Montgomery County Commissioners
1 Montgomery Plaza, Ste. 800
Norristown, PA 19404

Doug Yerger
Director
Pottstown Public Works Department
Borough Hall
100 E. High St.
Pottstown, PA 19464

Leo Bagley
Montgomery County Planning Commission
1 Montgomery Plaza, Ste. 201
Norristown, PA 19404-0311

6. The estimated cost of the Project is \$3,000. PECO agrees to bear all the costs incurred in furnishing material and performing the work necessary to install the gas main to serve its customers.

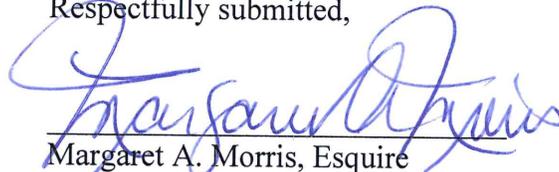
7. The Applicant avers it is necessary and proper for the accommodation, convenience and service of the public that PECO be authorized by the Commission to upgrade its facilities at the Crossing.

8. A field visit is not required.

9. PECO does not request a hearing prior to issuance of an order approving the Application. Any hearing required to determine the final allocation of costs can be held after issuance of an order approving the project at the parties' initial cost and after completion of the work.

WHEREFORE, PECO Energy Company, requests that its Application to install an 8" gas main inside of a 12" casing pipe, along South Hanover Street crossing Norfolk Southern tracks, in Pottstown Borough, Montgomery County be approved.

Respectfully submitted,



Margaret A. Morris, Esquire
Attorney I.D. # 75048
Cira Centre, 13th Floor
2929 Arch Street
Philadelphia, PA 19104
(215) 495-6524 (voice)
(215) 495-6600 (fax)
mmorris@regerlaw.com

Dated: June 26, 2019

Ward L. Smith, Esquire
Attorney I.D. # 47670
Exelon Business Services Group
2301 Market Street
P.O. Box 8699
Philadelphia, PA 19101-8699
(215) 841-6863 (voice)
(215) 568-3389 (fax)
ward.smith@exeloncorp.com

Counsel for PECO Energy Company

Docket No. A- 2019-
South Hanover Street, Pottstown, PA
Gas Main Replacement Project

EXHIBIT A

Plan and Profile for
Gas Main Replacement Project

CONSTRUCTION NOTES

- INSTALL 159' OF 12" STEEL CASING PIPE UNDER RAILROAD TRACKS USING JACK AND BORE REFER TO STANDARD G-2308:TRENCHLESS TECHNOLOGY REQUIREMENTS
- INSTALL 165' OF 8" HP STEEL MAIN ON S HANOVER ST(SR 4038)
- TIE-IN NEW 8" HP STEEL TO 8" HP STEEL INSTALLED UNDER WO#15116261 USING A COUPLING SOUTH OF RAILROAD TRACKS
- TIE-IN NEW 8" HP STEEL TO 8" HP STEEL INSTALLED UNDER WO#15116261 USING A COUPLING NORTH OF RAILROAD TRACKS

NOTES:

- BORING HEAD OVERTURN MAY NOT EXCEED THE CASING O.D. BY MORE THAN ONE-HALF INCH.
- INSTALL CARRIER PIPE IN CASING WITH CASING SPACERS NOT MORE THAN 10 FEET APART.
- INSTALL CARRIER AND CASING PIPE JOINTS CENTERED ON THE TWO TRACKS SO THAT NO GIRTH WELD IS LESS THAN 5 FEET FROM THE OUTER RAIL ON EITHER TRACK.
- THE CASING PIPE IS CATHODICALLY PROTECTED BY TWO 17# MAGNESIUM ANODES.
- EXISTING CP SYSTEMS 1068-M & 1103-M
- ALL SHORING SHALL CONFORM TO OSHA, FEDERAL, STATE, AND LOCAL REQUIREMENTS.

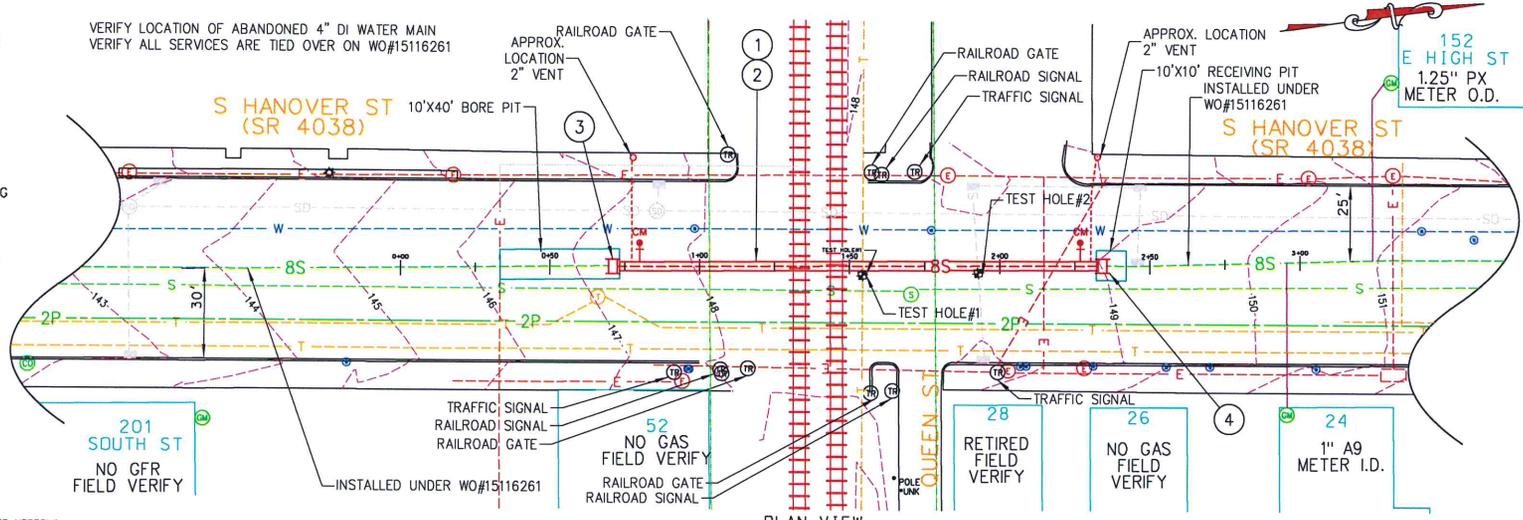


EXHIBIT A
PIPE CROSSING - DATA SHEET

IN ADDITION TO PLAN AND PROFILE OF CROSSING, DRAWINGS SUBMITTED FOR NORFOLK SOUTHERN FACILITIES ENGINEERING REVIEW SHALL CONTAIN THE FOLLOWING INFORMATION:

CONTENTS TO BE HANDLED	CARRIER PIPE	CASING PIPE
NORMAL OPERATING PRESSURE	NATURAL GAS	N/A
NOMINAL SIZE OF PIPE	30-99 PSIG	ATM
O.S. DIAMETER	8 IN	12 IN
I.D. DIAMETER	8.625 IN	12.750 IN
WALL THICKNESS	0.125 IN	0.250 IN
WEIGHT PER FOOT	22.4 LB/FT	49.56 LB/FT
MATERIAL	STEEL	STEEL
PROCESS OF MANUFACTURE	EW	EW
SPECIFICATION	API 5L	API 5L
GRADE OR CLASS	GRB	GRB
TEST PRESSURE	100 PSI	ATM
TYPE OF JOINT	WELDED	WELDED
TYPE OF COATING	N/A	PRITEC
DETAILS OF CATHODIC PROTECTION	RECTIFIER	2-17# MAG ANODE
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	LINK SEAL	LINK SEAL
METHOD OF INSTALLATION	INSERTION	JACK & BORE
CHARACTER OF SUBSURFACE MATERIAL AT THE CROSSING LOCATION	SEE BORING LOG	SEE BORING LOG
APPROXIMATE GROUND WATER LEVEL	UNKNOWN	UNKNOWN
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS (BORINGS, TESTS PITS, OR OTHER)		

CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS

PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES

BLASTING NOT PERMITTED



SAFETY NOTE:

A TAILBOARD CONFERENCE SHALL BE CONDUCTED BEFORE THE START OF EACH JOB. THE PRE-JOB TAILBOARD CONFERENCE SHALL COVER AT LEAST THE FOLLOWING SUBJECTS:

HAZARDS ASSOCIATED WITH THE JOB.
WORK PRACTICES INVOLVED.
SPECIAL PRECAUTIONS ASSOCIATED WITH THE JOB.
PERSONAL PROTECTIVE EQUIPMENT.

PECO ENERGY COMPANY
BUCKSMONT REGION

S HANOVER ST (S.R. 4038)

JACK AND BORE

POTTSTOWN BORO P.S. 534

DRWN BY	DATE	SCALE
RCB	1/16/2019	1"=20'
P. A.	W. O. NO. 15561757	



SEE STANDARD G-2405-CASING SPACERS AND SEAL INSTALLATION

SIGN SCHEDULE

ALL SIGNS SHALL SHOW THE FOLLOWING INFORMATION:

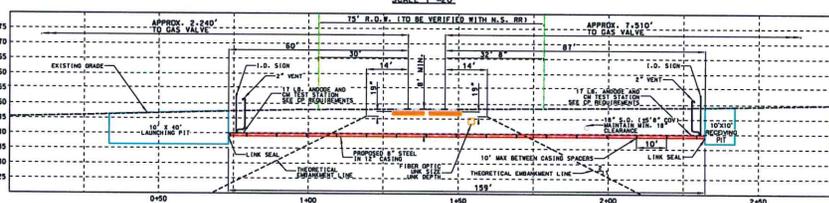
OWNER NAME: PECO ENERGY COMPANY
 OWNER ADDRESS: 2301 MARKET STREET PHILADELPHIA, PA 19101

CONTENTS OF PIPE: 30-99 PSIG NATURAL GAS

EMERGENCY TELEPHONE NO.: 1-800-841-4141

CP REQUIREMENTS

- THIS WORK IS ASSOCIATED WITH WO #15116261 / EC #219571
 - THIS WORK WILL NOT IMPACT NEARBY CP SYSTEMS 1068-M & 1103-M.
 - THIS MAIN WILL BE PROTECTED BY THE NEW RECTIFIER THAT IS BEING INSTALLED IN THE 100 BLOCK OF N. HANOVER STREET.
 - TIE-IN THE SOLID (NO INSULATORS REQUIRED) THE 8" STEEL MAIN ON BOTH SIDES OF THE RAILROAD TRACKS.
 - FOR THE CASING PIPE UNDER THE RAILROAD TRACKS INSTALL CASING SPACERS & LINK SEALS ACCORDING TO STANDARD G-2405.
 - MAXIMUM SPACING BETWEEN CASING SPACERS SHALL BE 10 FEET.
 - STRAIGHT ALIGNMENT OF CASING IS NECESSARY TO PERMIT SMOOTH INSERTION OF PIPE IN CASING.
 - PIPE SHALL NOT BE ALLOWED TO COME INTO ELECTRICAL CONTACT WITH CASING.
 - USE LINK SEALS WHERE MAIN ENTERS & EXITS THE CASING.
 - AT BOTH ENDS OF THE CASING BURY (1) 17 LB. ANODE. THE 17 LB. ANODE MUST BE BURIED IN SOIL OR IT WILL NOT ACTIVATE. DO NOT USE SCREENING OR MODIFIED.
 - DO NOT ATTACH THE ANODE WIRES TO THE CASING.
 - AT BOTH ENDS OF THE CASING INSTALL A CM TEST STATION. A CM TEST STATION CONSISTS OF (2) #8 WIRES CADWELDED ONTO THE MAIN & (2) #8 WIRES CADWELDED ONTO THE CASING (4 WIRES TOTAL). THE WIRES SHOULD BE CADWELDED A MINIMUM OF 12" APART. ON BOTH ENDS OF THE CASING BURY THE (4) #8 WIRES PLUS THE ANODE WIRE UP INTO A 9" VALVE BOX OUT-OF-PAVING. PLEASE LEAVE AT LEAST 12" OF SLACK WIRE IN THE BOX. FOR REFERENCE SEE STANDARD G-1115.
 - PLEASE CONTACT CORROSION CONTROL AT THE PHONE NUMBERS LISTED BELOW TO SCHEDULE A JOB WALKDOWN
- PLEASE CONTACT CARLO CASTAGLIUOLO AT 610-832-6514, MICHELE MILLER AT 610-832-6517 OR MIKE SCARBOROUGH AT 610-832-6516 IF ANY DESIGN CHANGES OCCUR.



ALL UTILITIES IN SCOPE OF WORK TO BE VERIFIED FOR SIZE, LOCATION AND DEPTH BEFORE STARTING JACK AND BORE

G-2100 PECO
STEEL MAIN TIE-IN 1-1/4" TO 20"

G-1220 PECO
MAGNESIUM ANODE INSTALLATION COATED STEEL MAIN

G-1115 PECO
PIPE CASING TEST STATION

CONSTRUCTION NOTES

1. INSTALL 159' OF 12" STEEL CASING PIPE UNDER RAILROAD TRACKS USING JACK AND BORE REFER TO STANDARD G-2308:TRENCHLESS TECHNOLOGY REQUIREMENTS
2. INSTALL 165' OF 8" HP STEEL MAIN ON S HANOVER ST(SR 4038)
3. TIE-IN NEW 8" HP STEEL TO 8" HP STEEL INSTALLED UNDER WO#15116261 USING A COUPLING SOUTH OF RAILROAD TRACKS
4. TIE-IN NEW 8" HP STEEL TO 8" HP STEEL INSTALLED UNDER WO#15116261 USING A COUPLING NORTH OF RAILROAD TRACKS

- NOTES:
1. BORING HEAD OVERCUT MAY NOT EXCEED THE CASING O.D. BY MORE THAN ONE-HALF INCH.
 2. INSTALL CARRIER PIPE IN CASING WITH CASING SPACERS NOT MORE THAN 10 FEET APART.
 3. INSTALL CARRIER AND CASING PIPE JOINTS CENTERED ON THE TWO TRACKS SO THAT NO GIRTH WELD IS LESS THAN 5 FEET FROM THE OUTER RAIL ON EITHER TRACK.
 4. THE CASING PIPE IS CATHODICALLY PROTECTED BY TWO 17# MAGNESIUM ANODES.
 5. EXISTING CP SYSTEMS 1068-M & 1103-M
 6. ALL SHORING SHALL CONFORM TO OSHA, FEDERAL, STATE, AND LOCAL REQUIREMENTS.

EXHIBIT A
PIPE CROSSING - DATA SHEET

IN ADDITION TO PLAN AND PROFILE OF CROSSING, DRAWINGS SUBMITTED FOR NORFOLK SOUTHERN FACILITIES ENGINEERING REVIEW SHALL CONTAIN THE FOLLOWING INFORMATION:

CONTENTS TO BE HANDLED	CARRIER PIPE	CASING PIPE
NORMAL OPERATING PRESSURE	30-99 PSIG	N/A
NOMINAL SIZE OF PIPE	8 IN	12 IN
O.S. DIAMETER	8.825 IN	12.750 IN
I.D. DIAMETER	8.125 IN	12.00 IN
WALL THICKNESS	0.250 IN	0.375 IN
WEIGHT PER FOOT	22.4 LB/FT	49.56 LB/FT
MATERIAL	STEEL	STEEL
PROCESS OF MANUFACTURE	ERW	ERW
SPECIFICATION	API 5L	API 5L
GRADE OR CLASS	GRB	GRB
TEST PRESSURE	100 PSI	ATM
TYPE OF JOINT	WELDED	WELDED
TYPE OF COATING	PRITEC	N/A
DETAILS OF CATHODIC PROTECTION	RECTIFIER	2-17# MAG ANODE
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	LINK SEAL	LINK SEAL
METHOD OF INSTALLATION	INSERTION	JACK & BORE
CHARACTER OF SUBSURFACE MATERIAL AT THE CROSSING LOCATION	SEE BORING LOG	SEE BORING LOG
APPROXIMATE GROUND WATER LEVEL	UNKNOWN	UNKNOWN
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS (BORINGS, TESTS PITS, OR OTHER)		

CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS

PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES

BLASTING NOT PERMITTED

PAGE 1 OF 1
CUST QUAD-13F4G5
CO-2229B
DCN-0000193878
DESIGN POC-20183410829
STATE FIG-PATA 124
CONSTRUCTION POC REQUIRED
PERMIT-RAILROAD, LOCAL, STATE
SWIPE TEST REQUIRED
(CONSULT PROCEDURE OP-G-125)



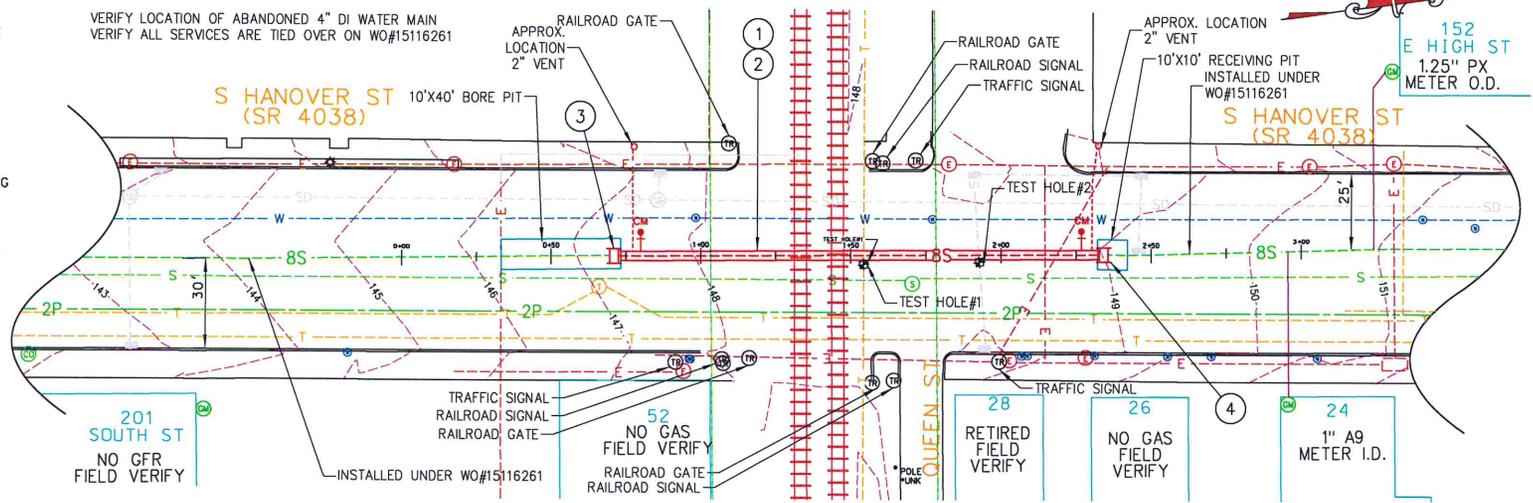
RETIREMENT BLOCK
RETIREMENT MAIN SIZE () TYPE () FOOTAGE ()
PLASTIC SERVICE TRANSFERS (0)
STEEL SERVICE TRANSFERS (0)
PLASTIC SERVICE INSERTED RENEWED (0)
STEEL SERVICE INSERTED RENEWED (0)
DIRECT BURY PLASTIC SERVICE (0)
DIRECT BURY STEEL SERVICE (0)
BSSR (BARE STEEL SERVICE REPLACEMENT) (0)

SAFETY NOTE:
A TAILBOARD CONFERENCE SHALL BE CONDUCTED BEFORE THE START OF EACH JOB. THE PRE-JOB TAILBOARD CONFERENCE SHALL COVER AT LEAST THE FOLLOWING SUBJECTS:

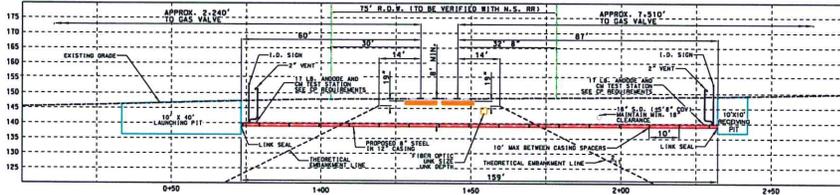
HAZARDS ASSOCIATED WITH THE JOB.
WORK PRACTICES INVOLVED.
SPECIAL PRECAUTIONS ASSOCIATED WITH THE JOB.
ENERGY CONTROL SOURCES.
PERSONAL PROTECTIVE EQUIPMENT.

PECO ENERGY COMPANY
BUCKSMONT REGION
S HANOVER ST (SR. 4038)
JACK AND BORE
POTTSTOWN BORO P.S. 534
OWNER BY DATE SCALE
RCD 1/16/2019 1"=20'
P.A. W.O. NO. 15561757

VERIFY LOCATION OF ABANDONED 4" DI WATER MAIN
VERIFY ALL SERVICES ARE TIED OVER ON WO#15116261



SEE STANDARD G-2405-CASING SPACER AND SEAL INSTALLATION

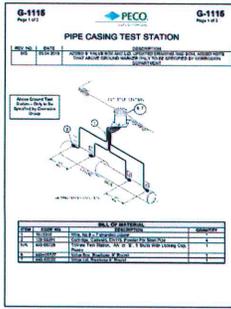
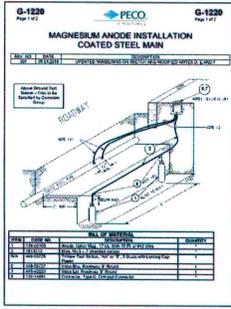
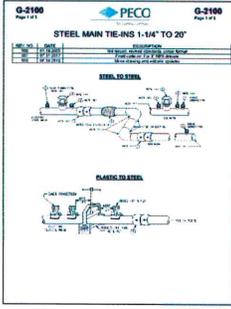


SIGN SCHEDULE
ALL SIGNS SHALL SHOW THE FOLLOWING INFORMATION:
OWNER NAME: PECO ENERGY COMPANY
OWNER ADDRESS: 2301 MARKET STREET PHILADELPHIA, PA 19101
CONTENTS OF PIPE: 30-99 PSIG NATURAL GAS
EMERGENCY TELEPHONE NO.: 1-800-841-4141

- CP REQUIREMENTS**
- * THIS WORK IS ASSOCIATED WITH WO #15116261 / EC #219571
 - * THIS WORK WILL NOT IMPACT NEARBY CP SYSTEMS 1068-M & 1103-M.
 - * THIS MAIN WILL BE PROTECTED BY THE NEW RECTIFIER THAT IS BEING INSTALLED IN THE 700 BLOCK OF N. HANOVER STREET.
 - * TIE-IN THE SOLID (NO INSULATORS REQUIRED) THE 8" STEEL MAIN ON BOTH SIDES OF THE RAILROAD TRACKS.
 - * FOR THE CASING PIPE UNDER THE RAILROAD TRACKS INSTALL CASING SPACERS & LINK SEALS ACCORDING TO STANDARD G-2405.
 - * MAXIMUM SPACING BETWEEN CASING SPACERS SHALL BE 10 FEET.
 - * STRAIGHT ALIGNMENT OF CASING IS NECESSARY TO PERMIT SMOOTH INSERTION OF PIPE IN CASING.
 - * PIPE SHALL NOT BE ALLOWED TO COME INTO ELECTRICAL CONTACT WITH CASING.
 - * USE LINK SEALS WHERE MAIN ENTERS & EXITS THE CASING.
 - * AT BOTH ENDS OF THE CASING BURY (1) 17 LB. ANODE. THE 17 LB. ANODE MUST BE BURIED IN SOIL OR IT WILL NOT ACTIVATE. DO NOT USE SCREENING OR MODIFIED.
 - * DO NOT ATTACH THE ANODE WIRES TO THE CASING.
 - * AT BOTH ENDS OF THE CASING INSTALL A CM TEST STATION. A CM TEST STATION CONSISTS OF (2) #8 WIRES CADWELDED ONTO THE MAIN & (2) #8 WIRES CADWELDED ONTO THE CASING (4 WIRES TOTAL). THE WIRES SHOULD BE CADWELDED A MINIMUM OF 12" APART. ON BOTH ENDS OF THE CASING BRING THE (4) #8 WIRES PLUS THE ANODE WIRE UP INTO A 9" VALVE BOX OUT-OF-PAVING. PLEASE LEAVE AT LEAST 12" OF SLACK WIRE IN THE BOX. FOR REFERENCE SEE STANDARD G-1115.
 - * PLEASE CONTACT CORROSION CONTROL AT THE PHONE NUMBERS LISTED BELOW TO SCHEDULE A JOB WALKDOWN***
- PLEASE CONTACT CARLO CASTAGLIUOLO AT 610-832-6514, MICHELE MILLER AT 610-832-6517 OR MIKE SCARBOROUGH AT 610-832-6516 IF ANY DESIGN CHANGES OCCUR.

ALL UTILITIES IN SCOPE OF WORK TO BE VERIFIED FOR SIZE, LOCATION AND DEPTH BEFORE STARTING JACK AND BORE

ADDITIONAL NOTES:
PROJECT ENGINEER: RICH BETHKE (610)832-6554
PRESSURE REMAINING HP S. HANOVER ST - S.R. 4038
CATHODIC PROTECTION REQUIRED
ONE FOOT CUT BACK IN ROADWAY
WHEN UTILIZING TRENCHLESS TECHNOLOGY (DIRECTIONAL DRILL, BORING, ETC.) REFER TO G-2308: TRENCHLESS TECHNOLOGY REQUIREMENTS
ALL MAIN TO BE INSTALLED WITH 3-FEET MINIMUM COVER FROM GRADE AND 1-FOOT VERTICAL CLEARANCE FROM ALL UTILITY CROSSINGS
INSTALL MARKER BALLS PER STANDARD
FINAL MAIN LOCATION TO BE DETERMINED BY POC MARK-OUT PROCEDURE REQUIRED FOR INSTALLATION



PECO G-2405 CASING SPACER AND SEAL INSTALLATION

ITEM	QUANTITY	DESCRIPTION	UNIT	DATE	STATUS
1	1	12" X 12" X 1/2" STEEL CASING SPACER	EA	1/16/2019	ORDERED
2	1	12" X 12" X 1/2" STEEL CASING SEAL	EA	1/16/2019	ORDERED
3	1	12" X 12" X 1/2" STEEL CASING SPACER	EA	1/16/2019	ORDERED
4	1	12" X 12" X 1/2" STEEL CASING SEAL	EA	1/16/2019	ORDERED
5	1	12" X 12" X 1/2" STEEL CASING SPACER	EA	1/16/2019	ORDERED
6	1	12" X 12" X 1/2" STEEL CASING SEAL	EA	1/16/2019	ORDERED

NOTES:
1. Material quantities listed are for 100' of 12" casing.
2. Final casing alignment is to be determined by POC mark-out.
3. Use the same mark-out for both ends of the casing.

CONSTRUCTION NOTES

- ① INSTALL 159' OF 12" STEEL CASING PIPE UNDER RAILROAD TRACKS USING JACK AND BORE REFER TO STANDARD G-2308:TRENCHLESS TECHNOLOGY REQUIREMENTS
- ② INSTALL 165' OF 8" HP STEEL MAIN ON S HANOVER ST(SR 4038)
- ③ TIE-IN NEW 8" HP STEEL TO 8" HP STEEL INSTALLED UNDER WO#15116261 USING A COUPLING SOUTH OF RAILROAD TRACKS
- ④ TIE-IN NEW 8" HP STEEL TO 8" HP STEEL INSTALLED UNDER WO#15116261 USING A COUPLING NORTH OF RAILROAD TRACKS

NOTES:

1. BORING HEAD OVERCUT MAY NOT EXCEED THE CASING D.O. BY MORE THAN ONE-HALF INCH.
2. INSTALL CARRIER PIPE IN CASING WITH CASING SPACERS NOT MORE THAN 10 FEET APART.
3. INSTALL CARRIER AND CASING PIPE JOINTS CENTERED ON THE TWO TRACKS SO THAT NO GIRTH WELD IS LESS THAN 5 FEET FROM THE OUTER RAIL ON EITHER TRACK.
4. THE CASING PIPE IS CATHODICALLY PROTECTED BY TWO 17# MAGNESIUM ANODES.
5. EXISTING CP SYSTEMS 1068-M & 1103-M
6. ALL SHORING SHALL CONFORM TO OSHA, FEDERAL, STATE, AND LOCAL REQUIREMENTS.

EXHIBIT A
PIPE CROSSING - DATA SHEET
IN ADDITION TO PLAN AND PROFILE OF CROSSING, DRAWINGS SUBMITTED FOR NORFOLK SOUTHERN FACILITIES ENGINEERING REVIEW SHALL CONTAIN THE FOLLOWING INFORMATION:
PIPE DATA

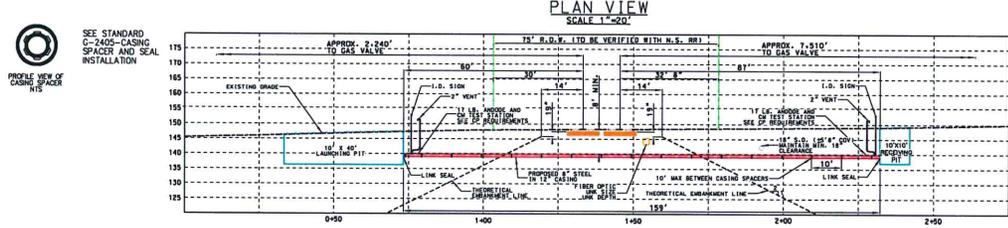
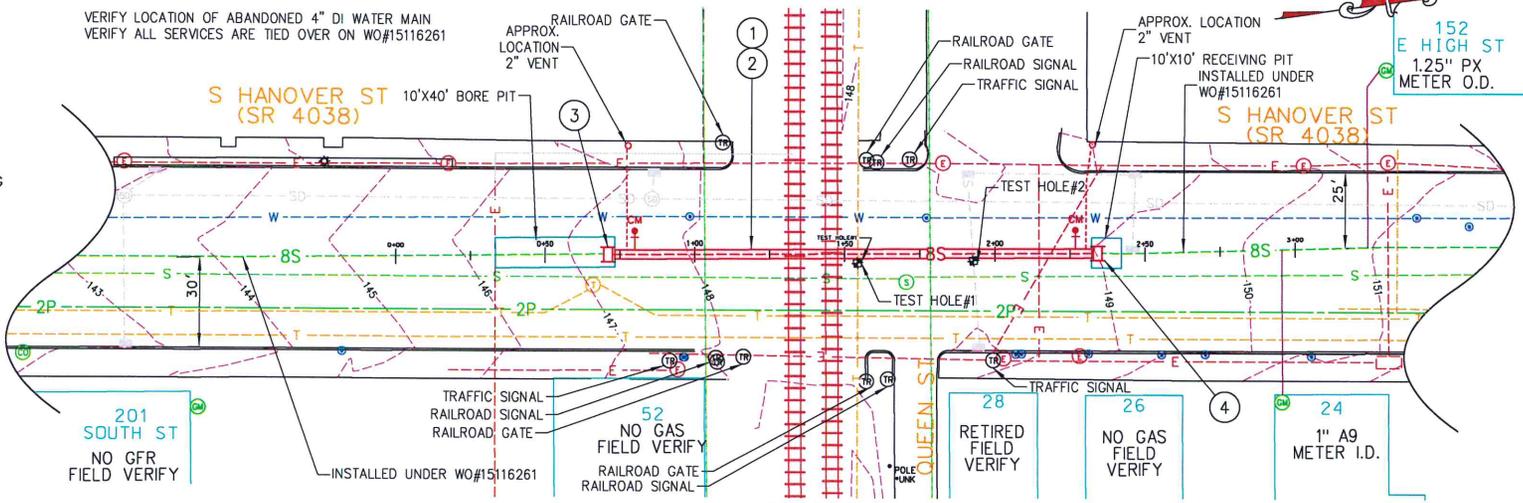
CONTENTS TO BE HANDLED	CARRIER PIPE	CASING PIPE
NORMAL OPERATING PRESSURE	NATURAL GAS 30-99 PSI	N/A ATM
NOMINAL SIZE OF PIPE	8 IN	12 IN
OD - DIAMETER	8.625 IN	12.750 IN
I.D. DIAMETER	8.125 IN	12.00 IN
WALL THICKNESS	0.250 IN	0.375 IN
WEIGHT PER FOOT	22.4 LB/FT	49.56 LB/FT
MATERIAL	STEEL	STEEL
PROCESS OF MANUFACTURE	ERM	ERM
SPECIFICATION	API 5L	API 5L
GRADE OR CLASS	GRB	GRB
TEST PRESSURE	100 PSI	ATM
TYPE OF JOINT	WELDED	WELDED
TYPE OF COATING	PRITEC	N/A
DETAILS OF CATHODIC PROTECTION	RECTIFIER	2-17# MAG ANODE
AT THE CROSSING LOCATION	LINK SEAL	JACK & BORE
ENDS OF CASING	INSERTION	
METHOD OF INSTALLATION		
CHARACTER OF SUBSURFACE MATERIAL	SEE BORING LOG	SEE BORING LOG
APPROXIMATE GROUND WATER LEVEL	UNKNOWN	UNKNOWN
SOURCE OF INFORMATION ON SUBSURFACE CONDITIONS (BORINGS, TESTS PITS, OR OTHER)		

CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS OF NORFOLK SOUTHERN'S NSCE-8 SPECIFICATIONS
PIPELINE AND CROSSING TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LAST APPROVED AMERICAN RAILWAY ENGINEERING AND MAINTENANCE OF WAY ASSOCIATION SPECIFICATIONS FOR PIPELINES CONVEYING FLAMMABLE AND NON-FLAMMABLE SUBSTANCES
BLASTING NOT PERMITTED

SAFETY NOTE:
A TAILBOARD CONFERENCE SHALL BE CONDUCTED BEFORE THE START OF EACH JOB. THE PRE-JOB TAILBOARD CONFERENCE SHALL COVER AT LEAST THE FOLLOWING SUBJECTS:
HAZARDS ASSOCIATED WITH THE JOB.
WORK PRACTICES INVOLVED.
SPECIAL PRECAUTIONS ASSOCIATED WITH THE JOB.
ENGINE CONTROL SOURCES.
PERSONAL PROTECTIVE EQUIPMENT.

**PECO ENERGY COMPANY
BUCKMONT REGION**
S HANOVER ST (SR. 4038)
JACK AND BORE
POITSTOWN BORO P.S. 534
DRAWN BY: RCD DATE: 1/16/2019 SCALE: 1"=20'
P.A. W. O. NO. 15561757

VERIFY LOCATION OF ABANDONED 4" DI WATER MAIN
VERIFY ALL SERVICES ARE TIED OVER ON WO#15116261



SIGN SCHEDULE
ALL SIGNS SHALL SHOW THE FOLLOWING INFORMATION:
OWNER NAME: PECO ENERGY COMPANY
OWNER ADDRESS: 2301 MARKET STREET PHILADELPHIA, PA 19101
CONTENTS OF PIPE: 30-99 PSIG NATURAL GAS
EMERGENCY TELEPHONE NO. 11-800-841-4141

CP REQUIREMENTS

- * THIS WORK IS ASSOCIATED WITH WO #15116261 / EC #219571
- * THIS WORK WILL NOT IMPACT NEARBY CP SYSTEMS 1068-M & 1103-M.
- * THIS MAIN WILL BE PROTECTED BY THE NEW RECTIFIER THAT IS BEING INSTALLED IN THE 700 BLOCK OF N. HANOVER STREET.
- * TIE-IN THE SOLID END (INSULATORS REQUIRED) THE 8" STEEL MAIN ON BOTH SIDES OF THE RAILROAD TRACKS.
- * FOR THE CASING PIPE UNDER THE RAILROAD TRACKS INSTALL CASING SPACERS & LINK SEALS A ACCORDING TO STANDARD G-2405.
- * MAXIMUM SPACING BETWEEN CASING SPACERS SHALL BE 10 FEET.
- * STRAIGHT ALIGNMENT OF CASING IS NECESSARY TO PERMIT SMOOTH INSERTION OF PIPE IN CASING.
- * PIPE SHALL NOT BE ALLOWED TO COME INTO ELECTRICAL CONTACT WITH CASING.
- * USE LINK SEALS WHERE MAIN ENTERS & EXITS THE CASING.
- * AT BOTH ENDS OF THE CASING BURY (1) 17 LB. ANODE. THE 17 LB. ANODE MUST BE BURIED IN SOIL OR IT WILL NOT ACTIVATE. DO NOT USE SCREENING OR MODIFIED.
- * DO NOT ATTACH THE ANODE WIRES TO THE CASING.
- * AT BOTH ENDS OF THE CASING INSTALL A CM TEST STATION. A CM TEST STATION CONSISTS OF (2) #6 WIRES CADWELDED ONTO THE MAIN & (2) #6 WIRES CADWELDED ONTO THE CASING (4 WIRES TOTAL). THE WIRES SHOULD BE CADWELDED A MINIMUM OF 12" APART. ON BOTH ENDS OF THE CASING BRING THE (4) #6 WIRES PLUS THE ANODE WIRE UP INTO A 9" VALVE BOX OUT-OF-PAYING. PLEASE LEAVE AT LEAST 12" OF SLACK WIRE IN THE BOX. FOR REFERENCE SEE STANDARD G-1115.
- ***PLEASE CONTACT CORROSION CONTROL AT THE PHONE NUMBERS LISTED BELOW TO SCHEDULE A JOB WALKDOWN***

PLEASE CONTACT CARLO CASTAGLIUOLO AT 610-832-6514, MICHELE MILLER AT 610-832-6517 OR MIKE SCARBOROUGH AT 610-832-6516 IF ANY DESIGN CHANGES OCCUR.

ALL UTILITIES IN SCOPE OF WORK TO BE VERIFIED FOR SIZE, LOCATION AND DEPTH BEFORE STARTING JACK AND BORE

ADDITIONAL NOTES:
PROJECT ENGINEER: RICH BETHKE (610)832-6554
PRESSURE REMAINING HP
S. HANOVER ST - S.R. 4038
CATHODIC PROTECTION REQUIRED
ONE FOOT CUT BACK IN ROADWAY
WHEN UTILIZING TRENCHLESS TECHNOLOGY (DIRECTIONAL DRILL/BORING, ETC.)
REFER TO G-2308: TRENCHLESS TECHNOLOGY REQUIREMENTS
ALL MAIN TO BE INSTALLED WITH 3-FEET MINIMUM COVER FROM GRADE AND 1-FOOT VERTICAL CLEARANCE FROM ALL UTILITY CROSSINGS
INSTALL MARKER BALLS PER STANDARD
FINAL MAIN LOCATION TO BE DETERMINED BY POC MARK-OUT PROCEDURE REQUIRED FOR INSTALLATION

G-2405 CASING SPACER AND SEAL INSTALLATION
G-2100 STEEL MAIN TIE-INS 1-1/4" TO 20"
G-1220 MAGNESIUM ANODE INSTALLATION COATED STEEL MAIN
G-1115 PIPE CASING TEST STATION