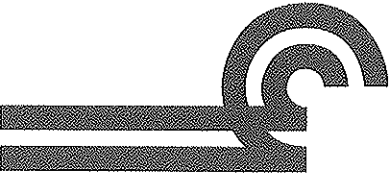

EXHIBIT F76

CONSOLIDATED RAIL CORPORATION LICENSE AGREEMENT
FOR WASTE WATER PIPE OCCUPATION, DATED
MAY 12, 2009, BY AND AMONG CONSOLIDATED
RAIL CORPORATION (CONRAIL) AND DELCORA



August 20, 2009

Christine Volkay-Hilditch P.E.
Director of Engineering
DELCORA
100 E. Fifth Street
Chester, PA 19016-0999

Orig: File Copy

AUG 25 2009

2009-1168

CC: Ed Bothwell

Skip Booz

BLACK BOOK

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SUBJECT: Chester, Delaware Co., PA - Install one (1) 54" ductile iron waste water pipe encased in a 72" steel pipe under Conrail's Chester Industrial Track, Line Code 10-0306, Mile Post 12.45 ±. (File D-1263)

Dear Ms. Volkay-Hilditch:

Enclosed is a fully executed License Agreement dated May 12, 2009.

You are to contact Mr. Chuck Fenton, Project Engineer, Conrail, 4th Floor, 1000 Howard Blvd., Mt. Laurel, NJ 08054, telephone (856) 231-2457 at least fourteen (14) working days prior to the start of work.

No entry or construction on Conrail property is to begin until either \$2,500 or an original Railroad Protective Liability Insurance policy with Conrail as Named Insured is submitted, and you have authorization to proceed from Mr. Fenton.

Thank you for your cooperation.

Sincerely,

Robert J. Dempsey
Manager - Engineering Contracts
(<http://www.conrail.com>)

***Warning*:**

Extreme caution is to be used in excavation due to the possibility of the existence of Fiber Optic Cables along Conrail's right of way. Any damage to the Fiber Optic Cables will be the sole responsibility of the Licensee. In compliance with state law, prior to commencing work, the contractor is to notify State "One Call", Call before you dig.

***CONSOLIDATED RAIL CORPORATION
LICENSE AGREEMENT FOR WASTE WATER PIPE
OCCUPATION***

THIS LICENSE AGREEMENT, made this May 12, 2009 between **CONSOLIDATED RAIL CORPORATION**, a Pennsylvania Corporation, ("Conrail") and **DELAWARE COUNTY REGIONAL WATER QUALITY CONTROL AUTHORITY (DELCORA)**, a Pennsylvania Corporation ("Licensee").

WITNESSETH:

WHEREAS, Licensee has requested occupation of Conrail's property as set forth in this License; and

WHEREAS, the parties have reached accord concerning the terms and conditions for Licensee's occupation of Conrail's property and desire to reduce them to writing.

NOW, THEREFORE, the parties hereto, intending to be legally bound, agree as follows:

1. FACILITIES

(a) Conrail insofar as it has the legal right and its present title permits, and in consideration of the covenants and conditions hereinafter stated on the part of Licensee to be kept and performed, hereby permits Licensee to construct, maintain, repair, alter, renew, relocate and ultimately remove (1) 54" ductile iron waste water pipe encased in a 72" steel pipe, under or across the roadway and track of the Chester Industrial Track of Conrail, Line Code 10-0306, Mile Post 12.45 ±, located at a point in the City of Chester, in the County of Delaware, State of Pennsylvania, in accordance with Drawing Numbers C-400, C-404 and C-506, all dated April 2009, submitted by Licensee to and approved by Conrail ("Construction Plan"), attached hereto and made a part of this License; also in accordance with current issues of Conrail's Specifications CE-4 and/or CE 8 (all and any part thereof being hereafter referred to as the "Facilities").

(b) This License shall not be deemed or construed as transferring to Licensee any interest in the land of Conrail or any right in the nature of an interest in land, irrespective of any expenditure by Licensee for the Facilities.

2. CONSIDERATION FEE

Licensee shall pay to Conrail upon the execution hereof, the sum of Seventeen Thousand Eight Hundred Twenty Dollars (\$17,820) as reimbursement for the rights granted in this Agreement.

3. CONSTRUCTION

(a) Licensee may not enter upon Conrail's property until the method of installation and all related matters have been approved by the Area Engineer of Conrail or his duly designated representative.

(b) The Facilities shall be located, constructed and maintained in exact accordance with said Construction Plans and for the purpose as outlined in Section 1(a) hereof. No departure shall be made at any time therefrom except upon permission in writing granted by the Area Engineer of Conrail, or his designee, provided, however, that if any commission or other regulatory body duly constituted and appointed in compliance with the laws of the State in which the crossing or occupancy herein provided is situate, and having jurisdiction in the premises, has by ruling or other general order determined and fixed the manner and means of construction, maintenance, repair, alteration, renewal, relocation or removal thereof, then said ruling or general order shall prevail for the crossing or occupancy herein mentioned.

(c) The work of constructing, maintaining, repairing, altering, renewing, relocating or removing the said Facilities shall be done under such general conditions as will be satisfactory to and approved by the Area Engineer of Conrail, or his designee, and as will not interfere with the proper and safe use, operation and enjoyment of the property of Conrail. Licensee, at its own cost and expense, shall, when performing any work in connection with the Facilities, furnish any necessary inspectors, flagmen or watchmen to see that men, equipment and materials are kept a safe distance away from the tracks of Conrail.

(d) The supervision over the location of the construction work and inspection of the Facilities and the approval of the material used in construction, maintenance, repair, alteration, renewal, relocation and removal of the Facilities covered by this License shall be within the jurisdictional rights of Conrail.

(e) The right of supervision over the location of the construction work and inspection of the Facilities from time to time thereafter by Conrail, shall extend for an appropriate distance on each side of the property of Conrail as the method of construction and materials used may have an important bearing upon the strength and stability of the Facilities over, under, upon or in the property of Conrail.

(f) In addition to, but not in limitation of any of the foregoing provisions, if at any time Conrail should deem inspectors, flagmen or watchmen desirable or necessary to protect its operations or property, or its employees, patrons or licensees during the work of construction, maintenance, repair, alteration, renewal, relocation or removal of the Facilities, Conrail shall have the right to place such inspectors, flagmen or watchmen at the sole risk, cost and expense of Licensee, which covenants and agrees to bear the full cost and expense thereof and to promptly reimburse Conrail upon demand. The furnishing or failure to furnish inspectors, flagmen or watchmen by Conrail, however, shall not release Licensee from any and all other liabilities assumed by Licensee under the terms of this License.

(g) In the event the Facilities consist of an underground occupation, Licensee will be responsible for any settlement caused to the roadbed, right of way and/or tracks, Facilities and appurtenances of Conrail arising from or as a result of the installation of the said FACILITIES for a period of one (1) year subsequent to the date of completion of the installation, and Licensee agrees to pay to Conrail on demand the full cost and expense therefor.

(h) In the event the Facilities consist of electrical power or communication wires and/or appurtenances, Licensee shall at all times be obligated promptly to remedy any inductive interference growing out of or resulting from the presence of its Facilities; and if Licensee should fail so to do, then Conrail may do so, and Licensee agrees to pay to Conrail on demand the full cost and expense therefor.

4. MAINTENANCE

(a) Licensee shall at all times be obligated to promptly maintain, repair and renew said Facilities; and shall, upon notice in writing from Conrail and requiring it so to do, promptly make such repairs and renewals thereto as may be required by Conrail; or Conrail, for the purpose of protecting and safeguarding its property, traffic, patrons or employees from damage or injury, may with or without notice to Licensee at any time make such repairs and renewals thereto and furnish such material therefor as it deems adequate and necessary, all at the sole cost and expense of Licensee, and thereafter, bill Licensee in accordance with the terms of Section 6 hereof.

(b) If Licensee desires or is required, as herein provided, to revise, renew, add to or alter in any manner whatsoever the Facilities, Licensee shall submit plans to Conrail and obtain the written approval of the Area Engineer of Conrail thereto before any work or alteration of the Facilities is performed and the terms and conditions of this License with respect to the original construction shall apply thereto. In that event, Conrail reserves the right to assess additional charges.

(c) In the event of an emergency, Licensee will take immediate steps to perform any necessary repairs to the Facilities, and in the event Licensee fails so to do, Conrail will perform said necessary repairs at the sole cost and expense of Licensee, and thereafter, bill Licensee in accordance with the terms of Section 6 hereof.

5. MAINTENANCE OF CONRAIL RIGHT-OF-WAY

Licensee shall, at its sole cost and expense, upon request in writing of Conrail, promptly change the location of the Facilities covered by this License, where located over, upon or in the property and of Conrail, to another location, to permit and accommodate changes of grade or alignment and improvement in or additions to land now or hereafter owned or used by Conrail to the extent that said construction shall at all times comply with the terms and conditions of this License with respect to the original construction; or in the event of the lease, sale or disposal of the premises or any part thereof encumbered by this License, then Licensee shall make such adjustments or relocations in its Facilities as are over, upon or in the property of Conrail as may be required by said Conrail or its grantee; and if Licensee shall fail or refuse to comply therewith, then the duly authorized agents of Conrail may make such repairs or adjustments or changes in location and provide necessary material therefor at the sole cost and expense of Licensee, and thereafter, bill Licensee in accordance with the terms of Section 6 hereof.

6. BILLING

(a) All cost and expenses in connection with the construction, maintenance, repair, alteration, renewal, relocation and removal of the Facilities shall be borne by Licensee, and in the event of work being performed or material furnished by Conrail under the stipulated right to perform such work of construction, maintenance, repair, alteration, renewal, relocation or removal under any section hereof, Licensee agrees to pay to Conrail the actual cost of material plus the current applicable overhead percentages for storage, handling, transportation, purchasing and other related material management expenses and the actual cost of labor plus the current applicable overhead percentages as developed and published by the accounting department of Conrail for fringe benefits, payroll taxes, administration, supervision, use of tools, machinery and other equipment, supplies, employers liability insurance, public liability insurance, and other insurance, taxes and all other indirect expenses. It is to be understood that the aforementioned material and labor overhead charges are to be applied at the

rates which are effective at the time of the performance of any work by employees of Conrail on the said Facilities. Licensee agrees to pay such bills within thirty (30) days of the presentation thereof by Conrail.

(b) Automobile mileage charges incurred by aforementioned Conrail inspectors, flagmen or watchmen in connection with the installation, maintenance, etc., of the Facilities will be based on allowances approved by the United States Government in effect at the time the expenses are incurred.

7. TAXES

As part of the consideration of this License, Licensee covenants and agrees that no assessments, taxes or charges of any kind shall be made against Conrail or its property by reason of the construction of the Facilities, and Licensee further covenants and agrees to pay to Conrail promptly upon bills rendered therefor the full amount of any assessments, taxes or charges of any kind which may be levied, charged, assessed or imposed against Conrail or its property by reason of the construction and maintenance of the Facilities.

8. LIABILITY

(a) It is understood between the parties hereto that the operations of Conrail at or near the Facilities involve some risk, and Licensee as part of the consideration for this License hereby releases and waives any right to ask for or demand damages for or on account of loss of or injury to the Facilities (and contents thereof) of Licensee that are over, under, upon or in the property of Conrail including the loss of or interference with service or use thereof and whether attributable to the fault, failure or negligence of Conrail or otherwise.

(b) Licensee also covenants and agrees to and shall at all times indemnify, protect and save harmless Conrail from and against all cost or expense resulting from any and all losses, damages, detriments, suits, claims, demands, costs and charges which Conrail may directly or indirectly suffer, sustain or be subjected to by reason or on account of the construction, placement, attachment, presence, use, maintenance, repair, alteration, renewal, relocation or removal of the Facilities in, on, about or from the premises of Conrail whether such losses and damages be suffered or sustained by Conrail directly or by its employees, patrons or licensees, or be suffered or sustained by other persons or corporations, including Licensee, its employees and agents who may seek to hold Conrail liable therefor, and whether attributable to the fault, failure or negligence of Conrail or otherwise, except when proved by Licensee to be due directly to the sole negligence of Conrail.

(c) Notwithstanding anything contained in Section 8(b) hereof, and irrespective of any negligence of Conrail, Licensee assumes sole responsibility for, and agrees to indemnify, save harmless and defend Conrail from and against all claims, actions, or legal proceedings arising, in whole or in part, from; (i) the failure of Licensee to comply with any obligations imposed on it by this License, or (ii) any claims, actions, or legal proceedings under the Federal Employer's Liability Act and any amendments to such Act now or hereafter in effect, alleging or claiming, in legal effect, that Conrail in respect to that portion of its land which lies under or near the FACILITIES, failed to correct or guard against an unsafe condition or failed to furnish a safe place to work. Failure by Conrail to make verbal or written complaints to Licensee with respect to unsafe working conditions or with respect to Licensee's failure to carry out its obligations under this License or knowledge on the part of Conrail of such unsafe working conditions or place to work and of such failures by Licensee to carry out its obligations under this License shall not be deemed to constitute acquiescence therein by Conrail or

actionable negligence on the part of Conrail.

(d) If a claim or action is brought against either party and for which the other party may be responsible hereunder in whole or in part, such other party shall be notified and permitted to participate in the handling or defense of such matter.

9. INSURANCE

(a) In addition to any other forms of insurance or bonds required under this License and except to the extent that any of the requirements of this section are expressly waived or revised in writing by Conrail, Licensee, prior to the commencement of any work pursuant to this License shall, at its own cost and expense, maintain insurance of the following kinds and amounts and deliver to Conrail's Manager-Insurance and (specify other Conrail personnel), satisfactory evidence of such insurance as indicated herein.

(i) Public Liability insurance, including contractual liability insurance, covering all liabilities assumed by Licensee under Section 8 of this License, without exception or restriction of any kind. Said insurance shall be in limits of not less than Five Million Dollars (\$5,000,000.) combined single limit for bodily injury and/or property damage, for damages arising out of bodily injuries to or death of all persons in any one occurrence and for damage to or destruction of property, including the loss of use thereof, in any one occurrence. Conrail must be named as an additional insured under said insurance. The providing of such insurance shall not be deemed a limitation on the liability of Licensee as provided in this License, but shall be additional security therefor.

(ii) Workers' Compensation insurance in Statutory Amounts. Employers' Liability and Occupational Disease Insurance with limits of \$1,000,000 each accident, \$1,000,000 policy limit and \$1,000,000 each employee. Such policy shall include a waiver of subrogation in favor of Conrail.

(iii) Automobile Liability insurance with a limit of not less than \$5,000,000 combined single limit for bodily injury and/or property damage per occurrence. Conrail shall be named as an additional insured under this insurance.

(b) The insurance specified above shall be carried until the Project is satisfactorily completed and formally accepted by Conrail. Failure to procure and maintain such insurance shall constitute a Breach of this License.

(c) The above indicated insurance coverages shall be effected under standard form policies issued by insurers of financial responsibility that are rated "A" or better by Best's Insurance Reports, "AA" or better by Standard & Poor's Insurance Rating Service and "Aa" or better by Moody's Investors Service. Conrail reserves the right to reject as inadequate any insurance coverage provided by an insurance company that is rated less than the ratings above by any of the aforementioned rating services.

(d) The above indicated insurance coverages shall be enforceable by any legitimate claimant after the termination or cancellation of this License or any attachment hereto, whether by expiration of time, by operation of law or otherwise, so long as the basis of the claim against the insurance company occurred during the period of time when the License was in effect and the insurance was in force.

(e) Licensee shall furnish Conrail with certificates of insurance evidencing the insurance coverages required in subsections (a)(i), (a)(ii), (a)(iii), (a)(iv) etc., above, at least thirty (30) days prior to the commencement of this License. Conrail shall be named as an additional insured under the insurance coverages outlined in subsections a(i), (a)(ii), (a)(iii), (a)(iv) etc. above. Certificates of insurance and/or policies should be sent to Conrail's Insurance Department.

(f) All insurance policies shall be endorsed to provide that the insurance company shall give thirty (30) days prior written notice to Conrail's Insurance Department, if the policies are to be terminated or if any changes are to be made which will in any way affect the insurance requirements of this License.

10. EFFECTIVE DATE AND TERMINATION

(a) This License shall become and be effective as of the day and year first above written, and shall be terminable upon not less than thirty (30) days' notice served or given by either party hereto to the other; provided, however, that this License may be immediately terminated upon violation of any of the terms hereof by Licensee.

(b) Upon termination of this License or upon the removal or abandonment of the Facilities covered hereby, all the rights, title and interest of Licensee hereunder shall cease and determine, and this instrument shall thereupon become and be null and void, without any liability on the part of either party to the other party except only as to any liability accrued prior thereto, and Licensee shall remove its Facilities and appurtenances from Conrail property, and right of way and all property of Conrail shall be restored in good condition and to the satisfaction of Conrail. If Licensee fails or refuses to remove its Facilities and appurtenances under the foregoing conditions, Conrail shall be privileged to do so at the cost and expense of Licensee, and thereafter, bill Licensee in accordance with the terms of Section 6 hereof, and Conrail shall not be liable in any manner to Licensee for said removal.

(c) Anything herein contained to the contrary notwithstanding, there shall be no obligation on the part of Conrail to continue operation of the line of Conrail in the vicinity of the Facilities to prevent the termination of Licensee's occupation rights at any crossing or occupation covered hereunder on account of an abandonment of line or service by Conrail; nor shall there be any obligation upon Conrail to perfect its title in order to continue in existence the said occupation rights after such abandonment of line or service.

11. PERMITS AND APPROVALS

Licensee, at its sole risk, cost and expense, shall obtain all permits and approvals which may be necessary or appropriate and Licensee shall comply with all federal, state and local laws, and assume all cost and expense and responsibility in connection therewith, without any liability whatsoever on the part of Conrail. Licensee hereby agrees to indemnify, defend and hold harmless Conrail therefrom.

12. SUCCESSORS

(a) This License shall inure to the benefit of and be binding upon the parties hereto and their respective heirs, administrators, successors and assigns, subject, however, to the terms of Section 12(b) hereof.

(b) The rights hereby afforded shall be the personal privilege of Licensee, and no assignment or transfer thereof by operation of law or voluntary act of Licensee shall be made, or other use of the Facilities be permitted than as herein provided, without the prior consent and agreement in writing of Conrail being first had and obtained.

13. WAIVER

The waiver by Conrail of any breach of any term, covenant, obligation or condition herein contained shall not be deemed to be a waiver of any subsequent breach of the same or a waiver of any other term, covenant, obligation or condition herein contained.

14. NOTICES

(a) Every notice, approval, consent, or other communication desired or required under this License shall be effective only if the same shall be in writing and sent postage prepaid by overnight mail or United States registered or certified mail (or a similar mail service available at the time), directed to the other party at its address as follows (or such other address as either party may designate by notice given from time to time in accordance with this Section):

If to Conrail:

Consolidated Rail Corporation
4th Floor - Real Estate
1000 Howard Boulevard
Mt. Laurel, NJ 08054-2355

Attn: Manager-Real Estate Services

If to Conrail's Insurance Department

Consolidated Rail Corporation
4th Floor
1000 Howard Boulevard
Mt. Laurel, NJ 08054-2355

Attn.: Risk Management

If to Licensee:

DELCORA
100 E. Fifth Street
Chester, PA 19016-0999

Attn: Executive Director

15. ENTIRE AGREEMENT

The entire agreement between Conrail and Licensee is set forth in this License and there are no understandings, agreements, or representations of any kind between the parties, verbal or otherwise, other than as set forth in this License. No change or modification of any of the terms, obligations or provisions hereof shall be valid unless in writing and signed by the parties hereto.

16. PARTIAL INVALIDITY

If any term, obligation or condition of this License or the application thereof to any person or circumstance shall be held invalid or unenforceable to any extent by a final judgment or award which shall not be subject to change by appeal, then the remainder of this License or the application of such term or condition to persons or circumstances other than those as to which it is held invalid or unenforceable shall not be affected thereby and each term, covenant and condition of this License shall be valid and be enforced to the fullest extent permitted by law. Furthermore, each agreement, obligation and other provision of this License is and shall be deemed and construed as a separate and independent obligation of the party bound by, undertaking or making the same, and not dependent on any other provision of this License unless expressly so provided.

17. TITLE

(a) Licensee understands that Conrail occupies, uses and possesses lands, Rights-of-Way and rail corridors under all forms and qualities of ownership rights or facts, from full fee simple absolute to bare occupation. Accordingly, nothing in this License shall act as or be deemed to act as any warranty, guaranty or representation of the quality of Conrail's title for any particular Right-of-Way or Crossings(s) occupied, used or enjoyed in any manner by Licensee under any rights created in this License. It is expressly understood that Conrail does not warrant title to any Right-of-Way in Crossings(s), and Licensee will accept the grants and privileges contained herein, subject to all lawful outstanding existing liens, mortgages and superior rights in and to the Right-of-Way, and all leases, licenses and easements or other interests previously granted to others therein.

(b) Licensee agrees it shall not have nor shall it make, and hereby completely and absolutely waives its right, to any claim against Conrail for damages on account of any deficiencies in title to the selected Right-of-Way in the event of failure or insufficiency of Conrail's title to any portion thereof arising from Licensee's use of occupancy thereof.

(c) Licensee agrees to full and completely indemnify and defend all claims or litigation for slander of title, overburden of easement, or similar claims arising out of or based upon Licensee's Facilities in, on or along any Crossing(s), including claims for punitive or special damages.

18. THIRD PARTY BENEFICIARY

Nothing contained in this License shall be construed as to confer upon any other party the rights of a third party beneficiary.

19. GOVERNING LAW

This License and the rights and obligations of the parties hereunder shall be construed in accordance with the laws of the state wherein the Facilities are located.

20. EXHIBITS AND ADDENDA

Any exhibit or addendum to this License shall be deemed a part hereof.

21. HEADINGS

Section headings are inserted for convenience only and shall not affect the construction or interpretation of this License.

22. TERMINOLOGY

As used in this License, the terms "Conrail," "Licensee" and "party" shall include the respective subsidiaries and affiliates of Conrail and Licensee and the directors, officers, agents and employees of Conrail and Licensee and such subsidiaries and affiliates.

IN WITNESS WHEREOF, the said parties hereto have caused this License to be duly executed and delivered as of the day and year first above written.

WITNESS:




CONSOLIDATED RAIL CORPORATION

BY:


Title: Patrick Rogers
VP - Real Estate and Tax

WITNESS:

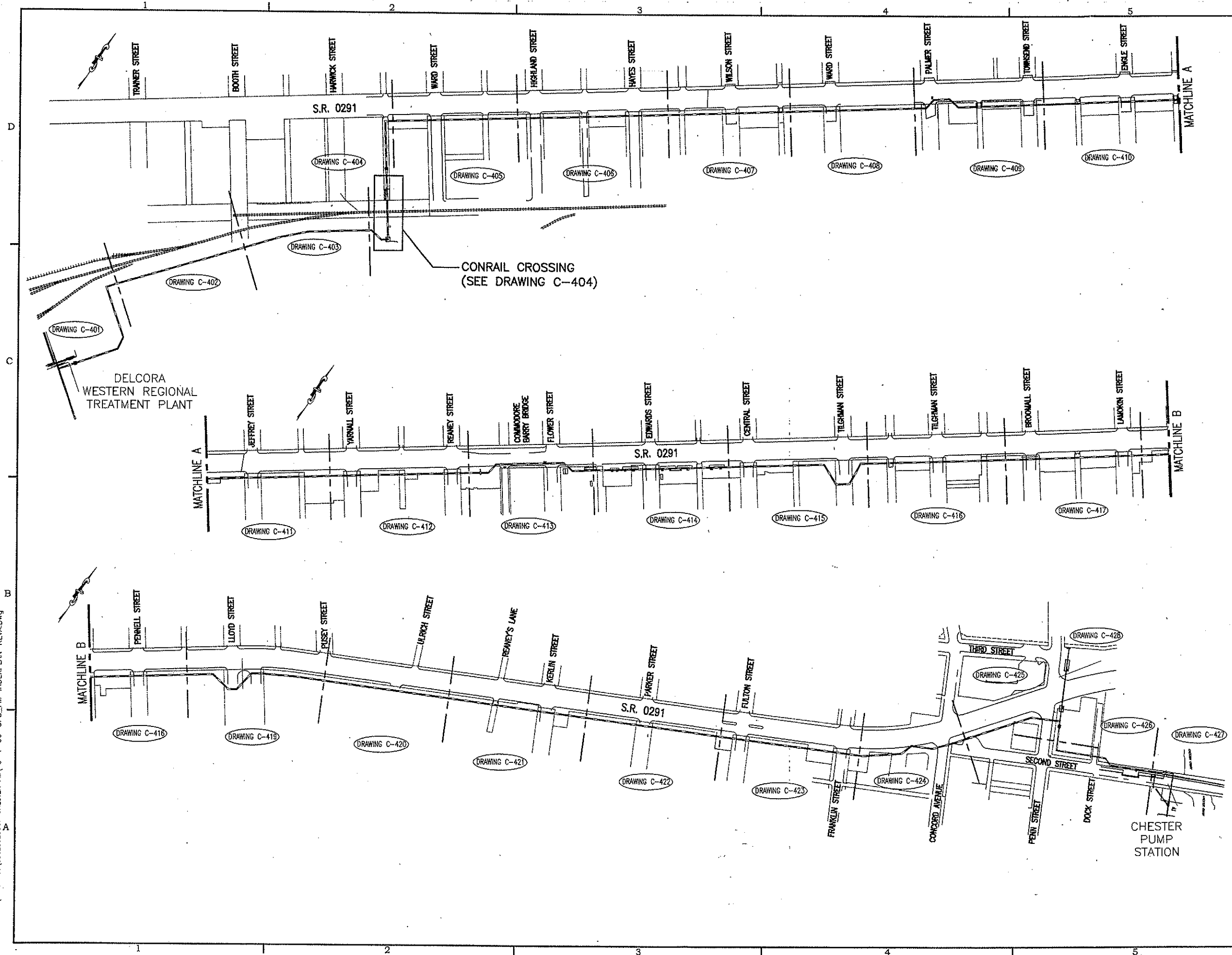

Christine Volkay-Hilditch
Director of Engineering

DELAWARE COUNTY REGIONAL WATER
QUALITY CONTROL AUTHORITY (DELCORA)

BY:


Title: Joseph L. Salvucci
Executive Director

FILENAME: G:\ADPROJ\05623023007 CHESTER FM\ C-4-00-CP5-FW-INDEXPLAN-REVA.Dwg



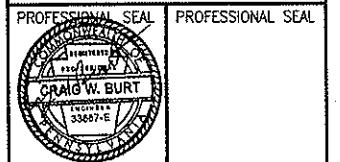
Delaware County
Regional Water
Quality Control
Authority
100 East Fifth Street
P.O. Box 999
Chester, PA 19016-0999

Architect-Engineer



1400 Weston Way
P.O. Box 2653
West Chester, PA 19380
(610) 701-3000

Consultants



MANAGEMENT BLOCK

DELCORA CONTRACT: N/A

A-E APPROVALS	DATE
DESIGNER: D.PASATIERI	5/09
CHECKED: C.BURT	5/09
PROD. ENG: C.BURT	5/09
PROD. MGR: S.BOOZ	5/09
APPROVED:	

CITY OF CHESTER

DELAWARE COUNTY PENNSYLVANIA

CHESTER FORCE MAIN

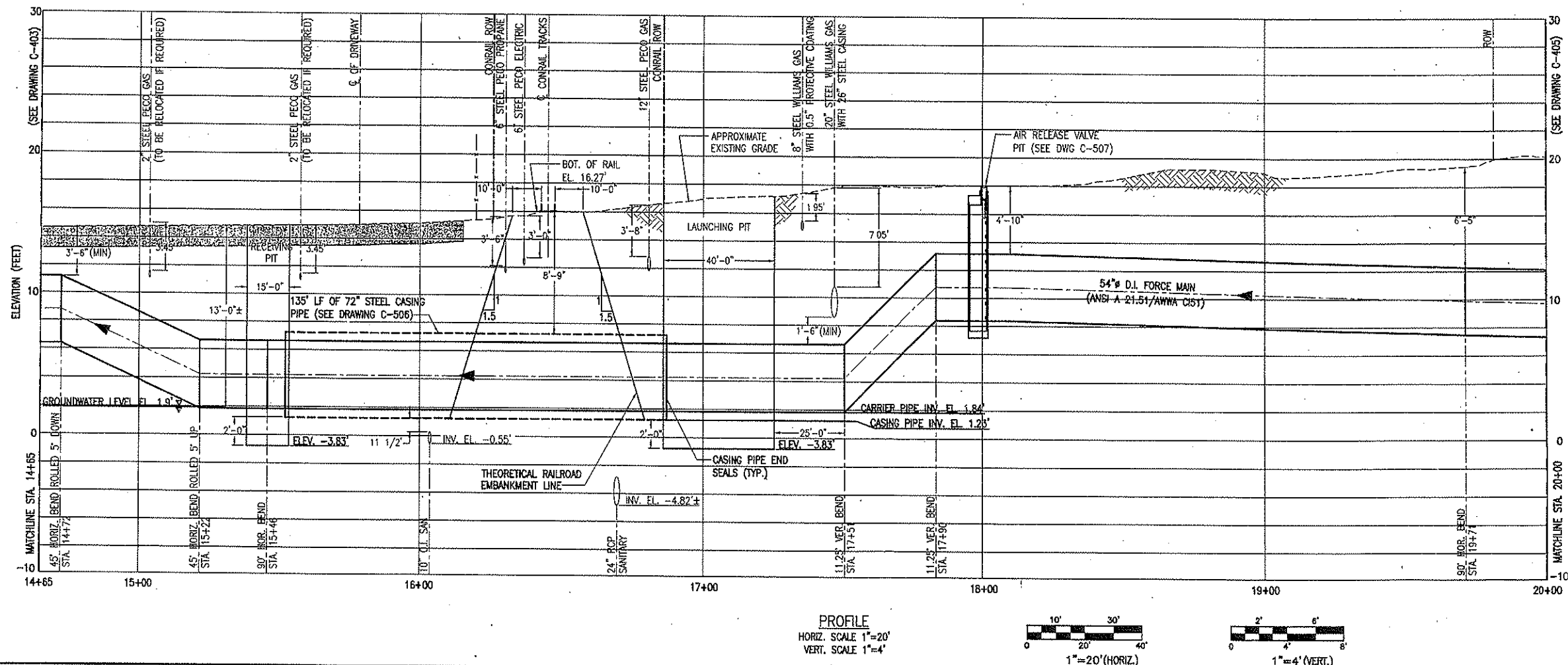
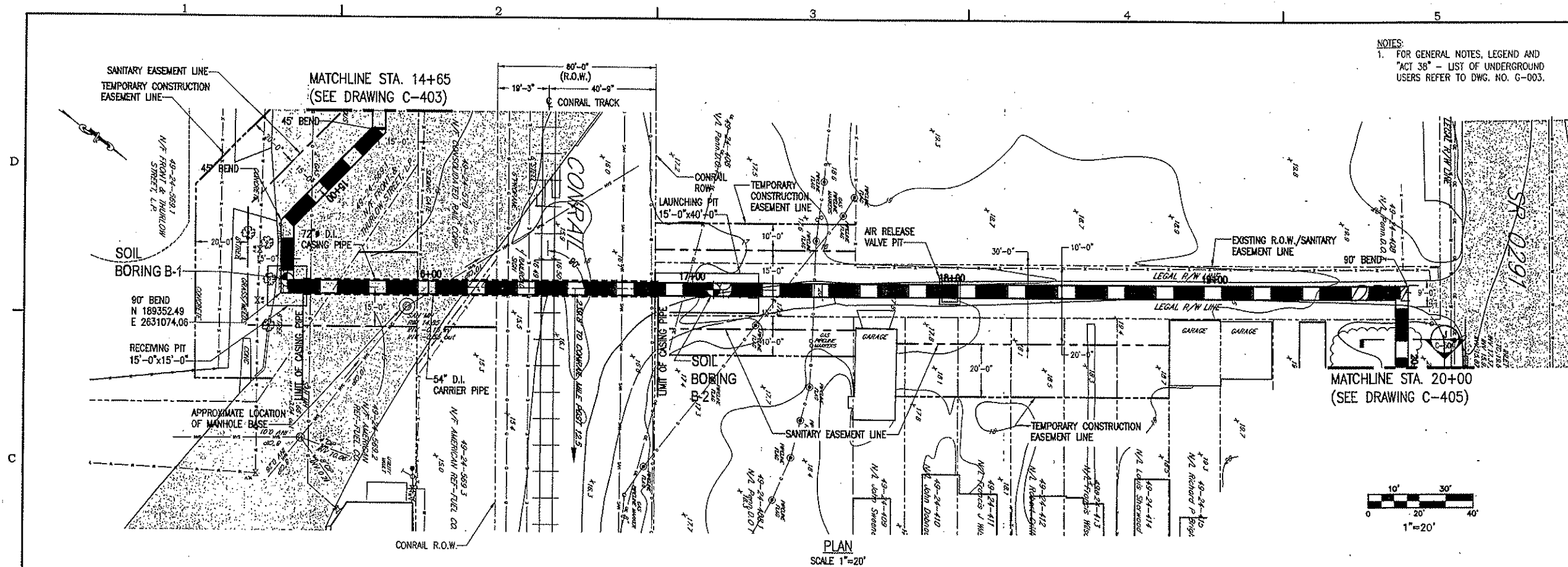
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Rev.	Date	Description

FORCE MAIN
INDEX PLAN

C-400

Sheet ___ of ___

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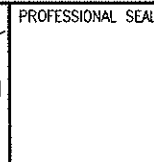
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MANAGEMENT BLOCK

DELCO CONTRACT: N/A

DATE	APPROVALS
5/09	D. PASATIERI
5/09	C. BURT
5/09	C. BURT
5/09	S. BOOZ

CITY OF CHESTER

DELAWARE COUNTY PENNSYLVANIA

CHESTER FORCE MAIN

Rev.	Date	Description
A	4/09	ISSUED FOR CONRAIL PERMIT

PLAN AND PROFILE
CONRAIL CROSSING
STA 14+65 TO 20+00

C-404

Sheet 1 of 1

CONRAIL PIPE DATA SHEET		
	CARRIER PIPE - 54"	72" CASING PIPE FOR 54" CARRIER PIPE
CONTENTS TO BE HANDLED	WASTE WATER	
NORMAL OPERATING PRESSURE	50 P.S.I.	ATMOSPHERIC
NOMINAL SIZE OF PIPE	54 INCH	72 INCH
OUTSIDE DIAMETER	57.56 INCH	72 INCH
INSIDE DIAMETER	56.26 INCH, CLASS 51	70.0 INCH
WALL THICKNESS	0.65 INCH, CLASS 51	1.00 INCH
WEIGHT PER FOOT (AVERAGE)	401.8 LBS., CLASS 51	571.2 LBS.
MATERIAL	DUCTILE IRON	STEEL PIPE
PROCESS OF MANUFACTURE	CENTRIFUGAL CASTING	SPIRAL WELD
SPECIFICATION	ANSI/AWWA C151/A21.51	ASTM A139 GRADE B
GRADE OR CLASS (SPECIFIED ON DRAWINGS)	CLASS 51	
TEST PRESSURE	100 P.S.I.	
TYPE OF JOINT	TYTON (PUSH-ON), TR FLEX (RESTRAINED PUSH-ON)	WELDED
TYPE OF COATING	ASPHALTIC	BITUMINOUS
DETAILS OF CATHODIC PROTECTION	N/A	N/A
DETAILS OF SEAL OR PROTECTION AT ENDS OF CASING	N/A	SEE NOTE 2
METHOD OF INSTALLATION	BORE AND JACK	BORE AND JACK
CHARACTER OF SUBSURFACE MATERIAL	SEE SOIL BORING LOGS	SEE SOIL BORING LOGS
APPROXIMATE GROUND WATER LEVEL	ELEVATION 1.9'	ELEVATION 1.9'
SOURCE OF INFORMATION ON SUBSURFACE CONOITIONS (BORINGS, TEST PITS, OR OTHER)	BORINGS B-1 & B-2	BORINGS B-1 & B-2

NOTES

1. CASING SPACERS

a. BANDS AND RISERS - HEAVY DUTY TWO PIECE 12" WIDE BANDS (MINIMUM THICKNESS 14 GAUGE) WITH WELDED RISERS (MINIMUM THICKNESS THICKNESS - 10 GAUGE) CONSTRUCTED OF HOT ROLLED CARBON STEEL WITH FUSION BONDED EPOXY COATINGS

b. LINER - EPDM (MIN. THICKNESS - 0.09")

c. RUNNERS - 2" WIDE BY 1 1/2" LONG MOLDED POLYMER, MIN. 7 RUNNERS (2 TOP, 5 BOTTOM) PER SPACER

d. STUDS, NUTS, AND WASHERS - PLATED STEEL

e. PART NO. S112-2-5472-CR-3 BY ADVANCE PRODUCTS AND SYSTEMS, INC. OR APPROVED EQUAL

2. END SEALS

a. SYNTHETIC RUBBER CONICAL SHAPED WRAP-AROUND END SEALS (MINIMUM THICKNESS 1/8") WITH PRESSURE SENSITIVE BUTYL MASTIC ADHESIVE STRIPS

b. BANDING STRAPS - T-304 STAINLESS STEEL WITH NON-MAGNETIC WORM GEAR MECHANISM

c. ADVANCE PRODUCTS AND SYSTEMS, INC. OR APPROVED EQUAL



Delaware County
Regional Water
Quality Control
Authority

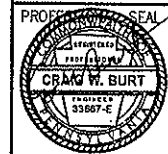
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Consultants



PROFESSIONAL SEAL

MANAGEMENT BLOCK

DELCOA CONTRACT: N/A

DATE	APPROVALS
5/09	DESIGNER D.PASATIERI
5/09	CHECKED C.BURT
5/09	PROD. ENG. C.BURT
5/09	PROD. MGR. S.BOOZ
	APPROVED

CITY OF CHESTER

DELAWARE COUNTY PENNSYLVANIA

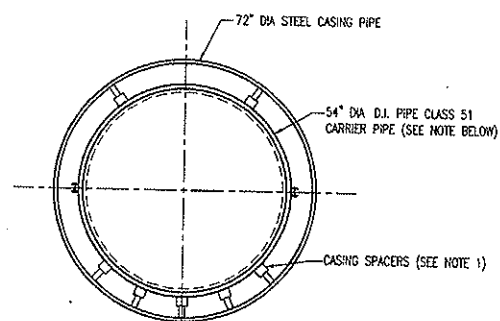
CHESTER FORCE MAIN

Rev.	Date	Description
A	4/09	ISSUED FOR CONRAIL PERMIT

CONRAIL PIPE DATA SHEET
AND CASING PIPE SECTION & DETAIL

C-506

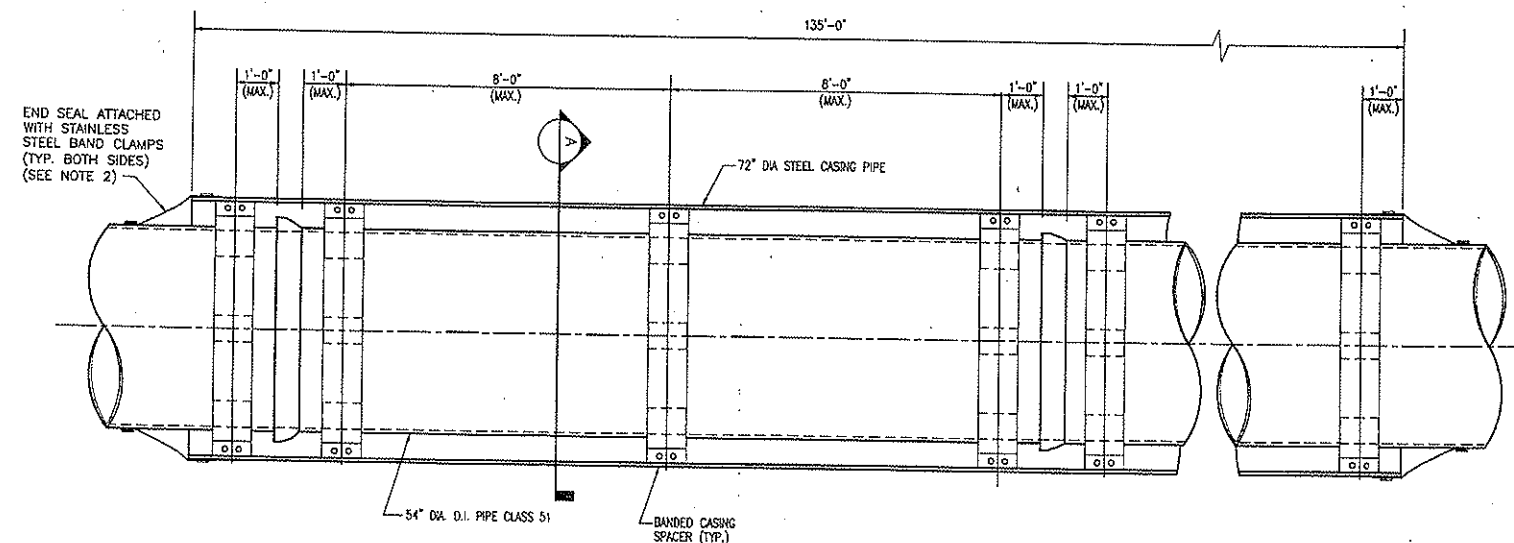
Sheet 1 of 1



CASING PIPE DETAIL WITHIN
ACTIVE RAILROAD R.O.W.



NOTE:
WHEN INSTALLING RESTRAINED JOINT CARRIER
PIPING IN THE CASING PIPE, FULLY EXTEND ALL
PIPE AND FITTING JOINTS TO TAKE UP JOINT
SLACK PRIOR TO MAKING END CONNECTIONS



CASING PIPE SPACER CONFIGURATION PLAN DETAIL

SCALE: 1/2" = 1'-0"

