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October 9, 2020

Electronic Filing

Aida Camacho-Welch
Office of the Secretary
NJ Board of Public Utilities
44 South Clinton Avenue, 3rd Floor
P. O. Box 350
Trenton, NJ 08625-0350

Re: In the Matter of the Petition of South Jersey Gas Company for Authorization to Construct and Operate Transmission Pipeline Pursuant to N.J.A.C. 14:7-1.4 BPU Docket No. GE19121539

Dear Secretary Camacho-Welch:

Enclosed please find the Amended Petition and Exhibits in the above referenced matter. Due to the pandemic, and in accordance with the New Jersey Board of Public Utilities ("BPU") March 19, 2020 and May 20, 2020 Orders issued in BPU Docket No. EO20030254, hard copies are not being provided at this time, but can be provided at a later time, as needed.

Please do not hesitate to contact me with any questions you may have. Thank you for your attention to this matter.

Respectfully submitted,

A handwritten signature in dark ink, appearing to read "Deborah M. Franco".

Deborah M. Franco

DMF:caj
Enclosures

cc: See attached service list

**IN THE MATTER OF THE PETITION OF SOUTH JERSEY GAS COMPANY
FOR AUTHORIZATION TO CONSTRUCT AND OPERATE TRANSMISSION
PIPELINE PURSUANT TO N.J.A.C. 14:7-1.4**

BPU DOCKET NO. GE19121539

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SOUTH JERSEY GAS COMPANY

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**STATE OF NEW JERSEY
BOARD OF PUBLIC UTILITIES**

IN THE MATTER OF THE PETITION	:	
OF SOUTH JERSEY GAS COMPANY	:	
FOR AUTHORIZATION TO CONSTRUCT	:	
AND OPERATE TRANSMISSION	:	
PIPELINE PURSUANT TO <u>N.J.A.C. 14:7-1.4</u>	:	DOCKET NO. GE19121539

AMENDED PETITION AND EXHIBITS

Deborah M. Franco, Esq.
VP, Clean Energy & Sustainability
SJH
520 Green Lane
Union, New Jersey 07083

October 9, 2020

STATE OF NEW JERSEY
BOARD OF PUBLIC UTILITIES

IN THE MATTER OF THE PETITION	:	AMENDED PETITION
OF SOUTH JERSEY GAS COMPANY	:	
FOR AUTHORIZATION TO CONSTRUCT	:	DOCKET NO. GE19121539
AND OPERATE TRANSMISSION	:	
PIPELINE PURSUANT TO <u>N.J.A.C. 14:7-1.4</u>	:	

TO THE HONORABLE COMMISSIONERS OF THE BOARD OF PUBLIC UTILITIES

I. INTRODUCTION

In accordance with N.J.A.C. 14:7-1.4, South Jersey Gas Company (“South Jersey”, “Petitioner”, or the “Company”), a public utility corporation of the State of New Jersey with its principal office at One South Jersey Place, Atlantic City, New Jersey, requests that this Honorable Board of Public Utilities (the “Board”) grant approval, on an expedited basis, to install a new, approximately 9-mile natural gas transmission pipeline (the “Project”). The Project will consist of approximately 7.1 miles of 16-inch diameter pipeline and approximately 1.6 miles of 8-inch diameter pipeline, with an alignment that will run through the City of Vineland, Cumberland County, New Jersey. As discussed in this Petition, the proposed Project is critical to ensuring the continuation of safe and reliable service to South Jersey’s customers. In support of this Petition, South Jersey states as follows:

1. South Jersey is engaged in the transmission, distribution, transportation, and sale of natural gas within its defined service territory in the State of New Jersey. South Jersey’s service territory includes all or portions of the following counties: Atlantic, Burlington, Camden, Cape May, Cumberland, Gloucester and Salem. Within its service territory, South Jersey serves

approximately 393,000 customers. The Company operates a network of 146.3 miles of transmission pipelines, 6,551 miles of distribution mains, and 315,475 service lines that total 6,697.3 miles in length.

2. South Jersey is obligated to ensure that it is able to provide safe, adequate and proper natural gas service to meet the current and future demand needs within its defined service territory.

Communications and correspondence concerning this Petition should be sent as follows:

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3. Attached hereto and made a part hereof are the following Exhibits:
- i. **Exhibit A** - Technical Design Specifications which contain a detailed description of the proposed Project;
 - ii. **Exhibit B** - Project Drawings;
 - iii. **Exhibit C** – Alternative Route Drawings;
 - iv. **Exhibit D** – List of Structures Within 100 Feet; and
 - v. **Exhibit E** – Form of Public Notice

II. PROJECT DESCRIPTION

4. N.J.A.C. 14:7-14 requires the prior authorization and approval from the Board for the construction and operation of any natural gas pipeline to be operated in excess of 250 pounds

per square inch gauge (psig), which pipeline is to be located within 100 feet of any building intended for human occupancy.

5. The proposed Project will consist of a new approximately 9-mile natural gas transmission pipeline that will include approximately 7.1 miles of 16-inch diameter pipeline and approximately 1.6 miles of 8-inch diameter pipeline. The alignment will run through the City of Vineland, Cumberland County, New Jersey. South Jersey anticipates initiating construction of the Project upon the receipt of all necessary permits with an in-service date in 2023. The Project will pass through the City of Vineland along county and municipal road rights-of-way commencing at a location in the City of Vineland and ending in the connection to the Company's 700 psig pipeline system in the vicinity of the Union Road Regulator Station in the City of Vineland. The 16-inch diameter transmission pipeline will be designed, constructed, tested and certified for a maximum allowable operating pressure of 700 psig. The 8-inch diameter transmission pipeline will be designed, constructed, tested and certified for a maximum allowable operating pressure of 350 psig. A detailed description of the Project's technical design specifications is attached hereto as Exhibit "A", with Project drawings contained in Exhibit "B".

6. For the 16-inch diameter natural gas transmission pipeline, there are 203 structures for human occupancy within 100 feet of the proposed Project, including approximately 178 residential structures and 25 commercial structures. For the 8-inch diameter natural gas transmission pipeline, there are 28 structures for human occupancy, including approximately 28 residential structures and 0 commercial structures. A list of each structure within 100 feet of the proposed Project is attached as Exhibit D and includes the lot and block number, addresses and distance from the proposed Project.

7. The proposed Project will connect a South Jersey-owned liquefied natural gas (“LNG”) facility to be located in Vineland, New Jersey (“Vineland LNG Facility”) to the Company’s existing system. The Vineland LNG Facility will consist of a 2 BCF storage, liquefaction and vaporization plant located at the geographic center of South Jersey’s system in Vineland, New Jersey. South Jersey anticipates the Vineland LNG Facility to be in service by the 3rd Quarter of 2023. The Vineland LNG Facility represents a non-pipeline redundancy solution that is critical to ensuring that the Company can continue to provide safe and reliable service without interruption in the event of a major pipeline failure. Thus, the proposed Project is vital to guarding against the threat of an outage on a peak design day caused by a disruption in pipeline service. In addition to providing necessary redundancy benefits, the Vineland LNG Facility is expected to facilitate job creation and economic development and has local government and community support in the City of Vineland.

III. THE NEED FOR THE PROJECT

8. South Jersey is the provider of last resort to over 390,000 customers, the majority of which represent households and businesses that depend on safe and reliable service to meet their heating needs and for other critical applications such as cooking and hot water heating. Throughout the Company’s service territory, dozens of schools, hospitals, first responders and government buildings count on the Company to support their vital operations.

9. South Jersey is obligated to ensure that it is able to provide safe, adequate and proper natural gas service to meet customer demand needs and manage against the loss of gas supply in a manner that enables the Company to provide service to all its firm customers under all load conditions.

10. In the last several years, various incidents have occurred that support the need for gas utilities to implement system redundancy measures to address the concern of risk of potential off-system pipeline failures, including one that significantly impacted New Jersey which occurred near Delmont, Pennsylvania in April, 2016. That incident, which occurred on the Spectra Energy Texas Eastern Pipeline system (“Spectra”), resulted in a force majeure event lasting 20 days that impacted a considerable portion of the eastern areas, including 3 New Jersey utilities.

11. In response to the Spectra incident, the Board convened two table top exercises, “Pilot Light” in 2017 and “Pilot Light 2” in 2019, to model the impact of a comparable interstate pipeline failure on the distribution systems of New Jersey gas utilities. These table top exercises demonstrated that a major pipeline incident could have profound effects on natural gas customers, with over 600,000 customer outages lasting up to six weeks. These table tops support the need for more diverse gas supplies to achieve adequate system redundancy.

12. South Jersey is particularly vulnerable to a significant off-system event because of its reliance on gas supplies delivered by only two interstate pipelines through eight city gate stations located along the northern and western edge of the Company’s service territory: Transcontinental Gas Pipeline Company, LLC and Columbia Gas Transmission, LLC. Adding to this vulnerability is the fact that both suppliers feed into the northwest portion of South Jersey’s service territory, far from the Company’s largest areas of customer base to the east and southeast resulting in long critical pipelines within our service territory.

13. The Company estimates that the loss of interstate supply during peak day usage could result in 130,000 to 248,000 customer outages. Restoration costs and associated impacts

to local communities, business, essential service and local governments are of particular concern with outages of these magnitude.

14. South Jersey has the obligation to serve its firm customers under all load conditions. Thus, the risk associated with the loss of supply from one or both of the interstate pipelines supplying the Company's distribution system must be addressed in a manner that most effectively mitigates the impact on South Jersey's customers. As explained above, the proposed Project is critical to ensuring an adequate gas supply on even the coldest days and will enable South Jersey's gas distribution system to safely and reliably operate to satisfy customer demands throughout South Jersey's service areas in the event of a disruption in pipeline service on a peak day.

IV. PROJECT SPECIFICATIONS

15. Pursuant to N.J.A.C. 14:7-1.18, this Petition constitutes notice to the Board setting forth the Project specifications. The Project will comply with all applicable Federal and State requirements as well as South Jersey's independent standards.

16. The Project will be fully contained within the limits of the City of Vineland, Cumberland County. As noted above, the Project will consist of an approximate 9-mile natural gas transmission pipeline, including approximately 7.1 miles of 16-inch diameter pipeline and approximately 1.6 miles of 8-inch diameter pipeline. An overview map of the Project, including the proposed route as well as detailed plan drawings are attached hereto as Exhibit "B".

17. The Project will be constructed in accordance with N.J.A.C. 14:7-1.1 *et seq.* and the Federal Regulations applicable to Transportation of Natural and Other Gas by Pipeline, Part 192, Title 49 of the Code of Federal Regulations. Specifically, for the 16-inch pipeline, the

material for open trench construction for this Project will consist of carbon steel welded pipe with 0.375-inch wall thickness. The 16-inch pipeline will be manufactured in accordance with the applicable American Petroleum Institute (“API”) Standard 5L with a specified minimum yield strength (“SMYS”) of 65,000 pounds per square inch (“psi”) and a minimum yield strength of 65,000 psi. For the 8-inch pipeline, the material for open trench construction for this Project will be consist of carbon steel welded pipe with 0.277-inch wall thickness. The 8-inch pipeline will be manufactured in accordance with the applicable API Standard 5L with SMYS of 52,000 psi and a minimum yield strength of 52,000 psi.

18. Both the 16-inch and 8-inch transmission pipelines will primarily be externally coated with Pritec, an extruded polyethylene jacket (40 mils) applied over a butyl rubber mastic adhesive (10 mils) and protected against corrosion by an impressed current cathodic protection system. In localized areas where the method of installation will be by HDD, the pipe will have a corrosion protection coating of 14-16 mils of Fusion Bond Epoxy covered by an additional outer mechanical protective coating of 40 mils of Powercrete. The transmission pipeline will be subject to 100 percent non-destructive radiographic inspection testing on all field welds. Further detailed project specifications are included in Exhibit “A”.

19. The Project, which is designed for a Class 4 Location, will be designed and constructed in compliance with the requirements of N.J.A.C. 14:7-1.3 and 49 C.F.R. 192.150, including inspection accessibility and remote operating valves in accordance with 49 C.F.R. 192.935.

20. Pursuant to N.J.A.C. 14:7-1.14, post-construction but pre-service, the 16-inch transmission pipeline will be hydrostatically pressure tested to at least 1,050 psig for a 24 hour period in conformance with all applicable Federal and State requirements. This will stress the

16-inch (.500 wall) pipe to 34.46% of SMYS. Pursuant to N.J.A.C. 14:7-1.14, post-construction but pre-service, the 8-inch transmission pipeline will be hydrostatically pressure tested to at least 525 psig for a 24 hour period in conformance with all applicable Federal and State requirements. This will stress the 8-inch (.277 wall) pipe to 14.58% of SMYS. Certification of a successful post-construction hydrostatic pressure test will be submitted in compliance with N.J.A.C. 14:7-1.14 and 1.26.

21. The Project will be located within the public rights-of-way and will be constructed in roadways under the jurisdiction of the following municipalities and county:

- 16-inch transmission pipeline
 - o Cumberland County, 7.1 miles (100%)
 - Elm Road
 - S. Delsea Drive
 - W. Elmer Road
 - E. Elmer Road
 - S. Main Road
 - S. Spring Road
 - Dante Ave
- 8-inch transmission pipeline
 - o Cumberland County, 1.6 miles (100%)
 - Elm Road
 - S. Orchard Road

22. As noted above, South Jersey is prepared to begin construction at the start of the 2nd Quarter of 2021 and complete the Project in the 2nd Quarter of 2023.

V. APPROVALS

23. The proposed Project requires the following approvals and applications:
- a. Utility Highway Occupancy/Road Opening Permits from Cumberland County;
 - b. An application for Certification of its Soil Erosion and Sediment Control Plan to the Cumberland County Soil Conservation District; and
 - c. Local planning/zoning land use approvals, as needed, from the City of Vineland.

VI. ALTERNATIVES ANALYSIS

24. The company analyzed three possible routes for the 16-inch transmission pipeline portion of the Project, as depicted in the map attached hereto as Exhibit “C”, including the following:

- Primary Route: Elmer Road
 - Approximately 7.1 miles along Elm Road and W. Elmer Road from S Mill Road to Union Road. Along this route is a total of 366 units within 100 feet of the project alignment including four churches, a credit union, family entertainment center, a preschool and two senior centers.
- Alternative Route A: Grant Ave
 - Approximately 8.0 miles along Elm Road, S Orchard Road, Garrison Road, Delsea Drive, Grant Ave, Lincoln Ave, and Dante Ave from S Mill Road to Cornucopia Ave. Along this route is a total of 388 units within 100 feet of the project alignment including four churches, NJ Army National Reserve, drive in movie theater, an independent living facility, a school, and a temple.
- Alternative Route B: Sherman Ave
 - Approximately 8.75 miles along Elm Road, S Orchard Road, Sherman Ave, Hance Bridge Road, Panther Road, and Dante Ave from S Mill

Road to Cornucopia Ave. Along this route is a total of 401 units within 100 feet of the project alignment including three churches, a school, multiple office buildings and a funeral home.

Elmer Road, the Primary Route, was selected as the best route for the 16-inch transmission pipeline part of the Project due to fewer occupied buildings in close proximity and the shortest overall distance. There was no alternative route analysis done for the 8-inch transmission pipeline portion of the Project due to the small length relative to the overall Project scope.

VII. PUBLIC PARTICIPATION

25. In anticipation of a public hearing to be held in the area of the Project, South Jersey has prepared a list depicting all structures within 100 feet of the Project's path, including the addresses as well as block and lot numbers, distance from the Project, survey stations and references to alignment drawings. As noted above, this list is attached hereto as Exhibit "D".

26. Once a public hearing is scheduled, South Jersey will publish notice of this Petition and of the public hearing in a local newspaper and serve written notice of the public hearing upon owners of the properties identified in Exhibit "D", as well as on local officials in the City of Vineland.

27. A copy of the proposed form of public notice is attached hereto as Exhibit "E".

VIII. REQUEST FOR EXPEDITED RELIEF

28. As explained above, the Project will allow the Company to ensure an adequate gas supply during peak periods and enable South Jersey's gas distribution system to safely and reliably operate to satisfy customer demands throughout South Jersey's service areas in the event

of a disruption in pipeline service. To ensure that the Project is completed without delay, South Jersey respectfully requests expedited review of this Petition. This will help facilitate the continuation of safe and reliable service to South Jersey customers in the immediate future and for the years to come.

IX. CONCLUSION

For the reasons stated above, South Jersey requests that the Board:

- A. Retain jurisdiction over this matter and designate a Commissioner as Presiding Officer;
- B. Approve South Jersey's request to construct and operate the approximately 9-mile long natural gas transmission pipeline consisting of approximately 7.1 miles of 16-inch transmission pipeline and approximately 1.6 miles of 8-inch transmission pipeline in Cumberland County, as herein described;
- C. Approve South Jersey's request for expedited treatment; and
- D. Approve any other relief deemed just and equitable.

Respectfully submitted,

South Jersey Gas Company



By: Deborah M. Franco, Esq.
VP, Clean Energy & Sustainability
SJI

Dated: October 9, 2020

VERIFICATION

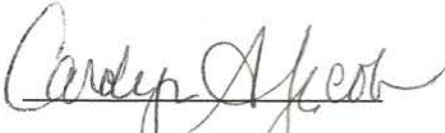
I, Brent Schomber, of full age, being duly sworn according to law, upon my oath, depose and say:

1. I am Vice President, Operations of South Jersey Gas, and I am authorized to make this verification on behalf of the Company.
2. I have reviewed the within petition and the information contained therein is true according to the best of my knowledge, information and belief.



Brent Schomber
Vice President, SJG Operations

Sworn to and subscribed
before me this 9TH day
of October 2020


CAROLYN A. JACOBS

NOTARY PUBLIC OF NEW JERSEY

My Commission Expires October 28, 2023



EXHIBIT A

EXHIBIT A
SPECIFICATIONS AND CODE REQUIREMENTS

16" AND 8" PIPELINE THROUGH CITY OF VINELAND IN CUMBERLAND
COUNTY, NEW JERSEY

49 CFR PART 192 - Transportation of Natural Gas and Other Gas by Pipeline:
Minimum Federal Safety Standards

N.J.A.C. 14:7 Natural Gas Pipelines

Class Location -USDOT 192.5/NJAC 14:7-1.3

South Jersey Gas Company's Standard criteria is to design all pipelines for Class 4 locations. The design of the pipeline shall be for Class 4 locations and shall comply with NJAC 14:7-1.3. The actual class locations include Class 1, Class 2 and Class 3 as defined by USDOT 192.5.

16" PIPE INSTALLED VIA OPEN TRENCH

Pipe Specification -USDOT 192.55

The 16" pipe shall be API 5L, Grade X-65, electric resistance welded, 0.375" wall thickness.

Design Operating Pressure -USDOT 192.105

Class 4 Location (Design Criteria):

Design Factor	F = 0.40
Longitudinal Joint Factor	E = 1.0 (ERW)
Temperature Factor	T = 1.0 (250 degrees F. and less)
Min. Yield Strength	S = 65,000 psi

Design Pressure "P" for 16" Pipe (0.375 Wall)

Outside Diameter	D = 16.000"
Wall Thickness	t = 0.375"

Formula

$$P = \frac{2St}{D} \times F \times E \times T$$

$$P = \frac{2(65,000) \times (0.375)}{16.000} \times 0.40 \times 1.0 \times 1.0 = 1,218.75 \text{ psig}$$

In accordance with API-5L table 26 for Pipe Grade between X42 to X120 of diameters between 8.625 inches to 20.000 inches per footnote b where “It is not necessary that the test pressure exceed 2970 psi”, the pipe was pressure tested to at least 2970 psig at the pipe mill. The Project Pipeline will be designed, constructed and certified to Class 4 requirements with a MAOP of 700 psig. The percent of yield strength at this pressure is:

Formula

$$\text{Operating Stress} = \frac{PD}{2t}$$

$$\text{Operating Stress (0.375 Wall)} = \frac{(700) \times (16)}{2(0.375)} = 14,933.33\text{psi}$$

$$\% \text{ Yield (0.375 Wall)} = \frac{14,933.33}{65,000} \times 100 = 22.97\% \text{ at MAOP}$$

8” PIPE INSTALLED VIA OPEN TRENCH

Pipe Specification -USDOT 192.55

The 8” pipe shall be API 5L, Grade X-52, electric resistance welded, 0.277” wall thickness.

Design Operating Pressure -USDOT 192.105

Class 4 Location (Design Criteria):

Design Factor	F = 0.40
Longitudinal Joint Factor	E = 1.0 (ERW)
Temperature Factor	T = 1.0 (250 degrees F. and less)
Min. Yield Strength	S = 52,000 psi

Design Pressure “P” for 8” Pipe (0.277 Wall)

Outside Diameter	D = 8.625”
Wall Thickness	t = 0.277”

Formula

$$P = \frac{2St}{D} \times F \times E \times T$$

$$P = \frac{2(52,000) \times (0.277)}{8.625} \times 0.40 \times 1.0 \times 1.0 = 1,336.02 \text{ psig}$$

In accordance with API-5L table 26, the pipe was pressure tested to at least 2,840 psig at the pipe mill. The Project Pipeline will be designed, constructed and certified to Class 4 requirements with a MAOP of 350 psig. The percent of yield strength at this pressure is:

Formula

$$\text{Operating Stress} = \frac{PD}{2t}$$

$$\text{Operating Stress (0.277 Wall)} = \frac{(350) \times (8.625)}{2(0.277)} = 5,449.01 \text{ psi}$$

$$\% \text{ Yield (0.277 Wall)} = \frac{5,449.01}{52,000} \times 100 = 10.48\% \text{ at MAOP}$$

Pipelines near Railroads and Highways – N.J.A.C. 14:7-1.8

The pipeline shall be designed in accordance with Conrail's CE-8 Specifications entitled "Specifications for Pipeline Occupancy of Consolidated Rail Corporation Property" where the pipeline intersects or runs parallel to a railroad. The pipeline shall be designed in accordance with Section 653 "Gas" of N.J.D.O.T.'s 2007 Standard Specifications for Road & Bridge Construction".

Projections – N.J.A.C. 14:7-1.13

All portions of the pipeline which protrude above the ground shall be conspicuously painted in accordance with the Steel Structures Painting Council's Paint Application Specification SSPC-PA 1-64 and enclosed and secured within a chain link fence.

Meter and Regulator Stations: Electric Installation – N.J.A.C. 14:7-1.15

All electric equipment and wiring in the meter, regulator and above ground valve facilities shall be designed and installed in accordance with the National Electrical Code and ANSI/NFPA 70.

Operator Reporting Requirements – N.J.A.C. 14:7-1.26

Pressure test records shall be submitted within one month after the test date and include the pressure and temperature recording charts, dead weight test records, other records of pressure and temperature readings and calibration records for recording instruments used during the pressure test.

Valve Specification -USDOT 192.145

All valves shall meet the minimum requirements of API 6D and South Jersey Gas Company specifications, which constitute a supplement to API 6D. All valves

shall be ANSI 600-lb. Class. Each point on the pipeline shall be within 2 ½ miles of a sectionalizing block valve.

Pipe Flanges -USDOT 192.147

All pipe flanges shall be carbon steel weld neck 600-lb. R.F. ANSI B16.5, MSS SP-44, or equivalent.

Pipe Fittings -USDOT 192.149

Welding elbows shall be ANSI B16.9, ASTM A-234 WP91.

Welding tees shall be ANSI B16.9, ASTM A-234 WP91.

Welding caps shall be ANSI B16.9, ASTM A-234 WP91.

Welding reducers shall be ANSI B16.9, ASTM A-234 WP91 concentric type.

Each steel butt-welding fitting shall have pressure and temperature ratings based on stresses for pipe of the same or equivalent material. The actual bursting strength of the fitting shall at least equal the computed bursting strength of pipe of the designated material and wall thickness, as determined by a prototype that was tested to at least the pressure required for the pipeline.

Passage of Internal Inspection Devices -USDOT 192.150

The pipeline, valves and fittings shall accommodate the passage of internal inspection devices.

Fabricated Components -USDOT 192.153

All fabricated components shall be constructed using regularly manufactured butt-welding fittings.

Welded Branch Connection -USDOT 192.155/NJAC 14:7-1.7

Full-size and reduced-sized branch connections shall be fabricated using manufactured forged steel fittings such as weld-o-lets made by Bonney Forge or equivalent.

Supports and Anchors -USDOT 192.161

Underground piping shall be continuously supported by a firm graded trench bottom of consolidated undisturbed soil.

Carrier pipe entering or leaving a casing shall be continuously supported on thoroughly compacted soil.

All above ground pipe supports shall be made of non-combustible material and shall not be welded or firmly secured to the pipe.

Transmission Line Valves -USDOT 192.179/ NJAC 14:7-1.10

The pipeline shall have in-line valves installed at each end and valves at 5 mile intervals. The operating device to open or close the valve shall be readily accessible and protected from damage through an enclosed gear housing and roadbox extension assembly. Each section of the transmission line shall have a blow down valve with enough capacity allow the transmission line to be blown

down as rapidly as practicable. The blowdown discharge shall be designed in accordance with USDOT 192.179.

Qualification of Welding Procedures -USDOT 192.225/NJAC 14:7-1.6

All welding procedures shall be qualified under API 1104.

Qualification of Welders -USDOT 192.227

All welders shall be qualified using procedures qualified under API 1104.
A written record shall be kept of each welder qualified.

Miter Joints -USDOT 192.233

No mitered joints will be allowed on this pipeline.

Inspection and Test of Welds -USDOT 192.241

A visual examination shall be performed on all welded joints and they shall meet the requirements of API 1104.

Non-Destructive Testing -USDOT 192.243/NJAC 14:7-1.6

All new welded joints shall be radiographed 100% and meet the standards of API 1104.

All radiographic testing shall be performed by trained, experienced persons and meet the standards of API 1104.

Oversight of field welding will be by welding inspectors qualified by the Company on the basis of training and experience.

Repair or Removal of Defects -USDOT 192.245

Any weld that is determined to be unacceptable under API 1104 shall be removed or repaired. All repairs shall be completed in accordance with written weld repair procedures that have been qualified under API 1104.

Oversight of Construction Activity -USDOT 192.305/NJAC 14:7-1.24

Oversight of pipeline construction activity will be by inspectors qualified by the Company on the basis of knowledge and experience in all areas of work to be inspected and meet all requirements of the of the Company's qualification of pipeline personnel.

Directional Drilling Operations NJAC 14:7-1.25

A plan and profile which depicts all subsurface facilities in proximity has been prepared for all proposed horizontal directional drilling (HDD) locations within the project.

All subsurface facilities will be located by test hole prior to HDD operations.

Instrumentation approved by the Company will be provided, used and maintained to accurately locate the drilling/reaming head during HDD operations.

All HDD pipe shall be supported by roller assemblies.

A Company qualified inspector shall be physically present on site at all times when subsurface utilities are being crossed by HDD.

Bends and Elbows -USDOT 192.313-315/ NJAC 14:7-1.7

All changes in direction shall be made using field bending equipment or manufactured elbows as indicated on the drawings. All field bends shall have a smooth contour. No wrinkle bends shall be allowed.

Protection from Hazards -USDOT 192.317

The pipeline shall be designed and constructed to avoid any hazards that may cause the pipeline to move or sustain any abnormal loads. The pipeline located above ground that is located in the vicinity of vehicular traffic shall be protected from accidental damage by concrete bollards.

Installation of Pipe in a Ditch -USDOT 192.319

The pipeline shall be installed in a ditch with a firm graded bottom free of large stones, clods, rubbish, wood and welding rods. The ditch shall be backfilled with material free of large stones, clods, rubbish, wood and welding rods and in a manner to avoid damaging to the coating of the pipe.

Casing -USDOT 192.323

All casings for the pipeline shall be designed to withstand the superimposed loads. The ends of the casing shall be sealed and the casing shall be vented.

Underground Clearance -USDOT 192.325

The pipeline shall be installed maintaining a minimum 12" of clearance from any other underground structure.

Cover -USDOT 192.327/NJAC 14:7-1.12

The pipeline shall be installed with a minimum cover of 48".

External Corrosion Control: Buried or Submerged Pipelines Installed After July 31, 1971 -USDOT 192.455

All piping shall be protected from external corrosion by mill applied coating, except field joints which will be coated with heat shrink sleeves. A cathodic protection system shall be designed and installed to protect this pipeline.

External Corrosion Control: Protective Coating -USDOT 192.461/NJAC 14:7-1.11

All piping shall be protected from external corrosion by mill applied coating, except field joints which will be coated with heat shrink sleeves.

External Corrosion Control: Cathodic Protection -USDOT 192.463

A cathodic protection system shall be designed and installed to protect this pipeline.

External Corrosion Control: Test Stations -USDOT 192.469/.471

This pipeline shall have sufficient test stations for electrical measurement to determine the adequacy of cathodic protection. The test station wires shall be connected to the pipeline so as to remain mechanically secure and electrically conductive.

Internal Corrosion Control: Design and Construction of Transmission Line -USDOT 192.476

The pipeline shall be designed and constructed to reduce the risk that liquids will collect in the line. The pipeline shall be designed to allow the use of pigs and smart pigs for the removal of liquids and the monitoring of internal corrosion.

Atmospheric Corrosion Control: General -USDOT 192.479

All above ground pipeline facilities shall be coated and sealed via Flame Sprayed TSA (Thermal Sprayed Aluminum). The Flame Sprayed TSA shall be applied in accordance with NACE No. 12/AWS C2.23M/SSPC-cs 23.00 – Specification for the Application of Thermal Spray Coatings (Metallizing) of Aluminum, Zinc, and Their Alloys and Composites for the Corrosion Protection of Steel.

Strength Test Requirements for a Steel Pipeline to Operate at Hoop Stress of 30 Percent or More of SMYS -USDOT 192.503/.505/.619 NJAC 14:7-1.14

A static pressure test, with water, shall be performed for a minimum 24-hour period at 1,050 psig (min) on 16" piping which will stress the 16 inch (0.375 wall) pipe to 34.46 percent of SMYS and at 525 psig (min) on 8" piping which will stress the 8 inch (0.277 wall) pipe to 14.58 percent of SMYS.

Records -USDOT 192.517

All records of static pressure and leak tests shall be retained for the life of the pipeline. The proposed route of this pipeline is shown on the drawings entitled 16"/8" Vineland Project – Prepared for South Jersey Gas, dated December 9, 2019, prepared by Henkels & McCoy, Inc.

MAOP -USDOT -192.619

The MAOP of the 16 inch pipeline will be 700 psig. The 16 inch pipeline shall not be operated in excess of 700 psig. The MAOP of the 8 inch pipeline will be 350 psig. The 8 inch pipeline shall not be operated in excess of 350 psig.

Odorization of Gas -USDOT 192.625/NJAC 14:7-1.16

The gas in this pipeline will be odorized so that the gas concentration in air of one-fifth of the lower explosive is detectable by smell.

Tapping Pipelines Under Pressure -USDOT 192.627

All tapping and stop-offs will be performed by a qualified crew.

Purging of Pipelines -USDOT 192.629

The new pipeline shall be purged into service using natural gas. This procedure will be done in a manner which will not allow a hazardous mixture of gas and air to form.

Pipeline Marker -USDOT 192.707 / NJAC 14:7-1.11

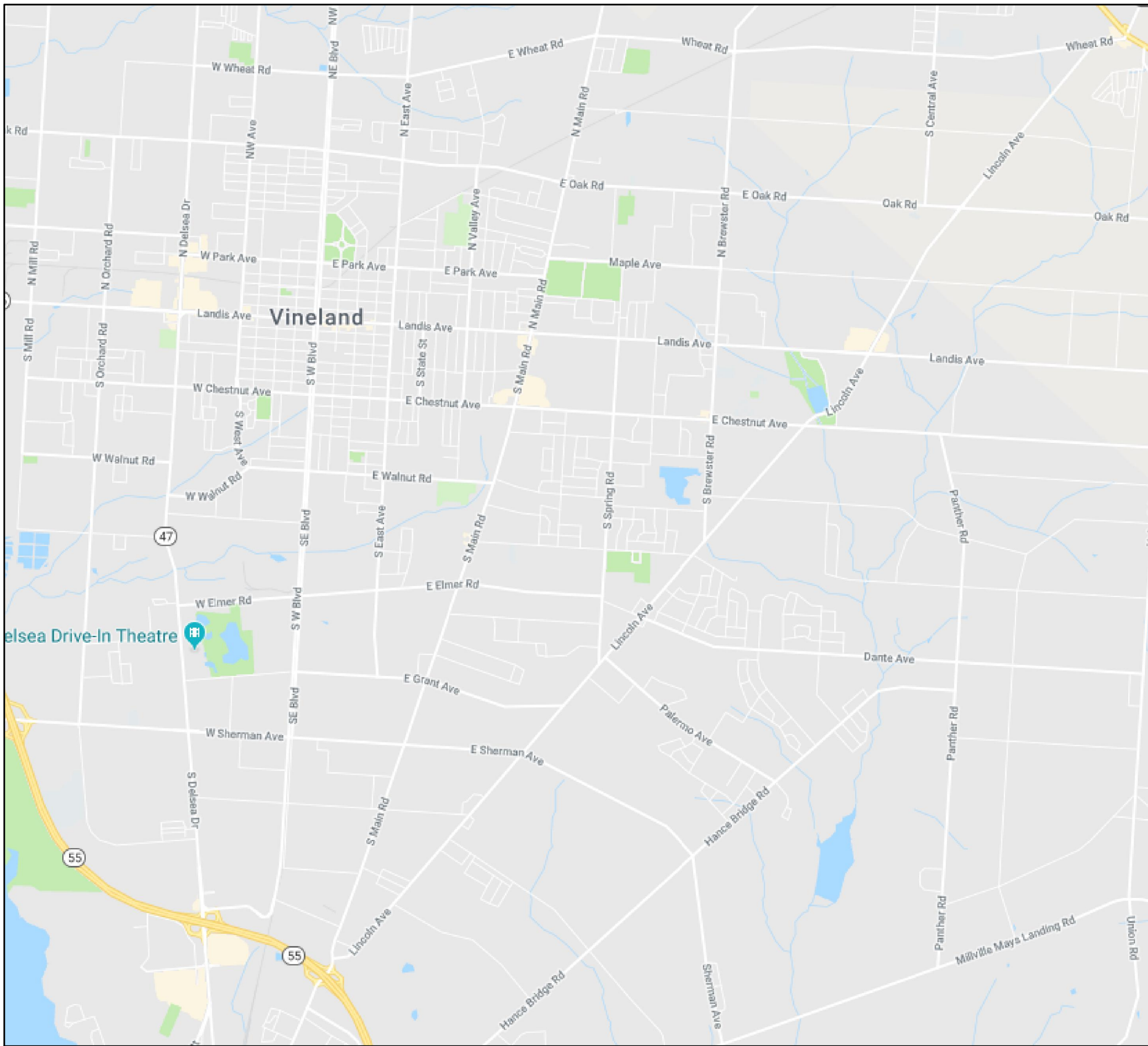
Pipeline markers shall be installed at all locations as outlined in this section of Subpart 192. In addition, for pipe 16" or more in diameter, marking tape consisting of one 12 inch wide strip or two 6 inch wide strips shall be installed side-by-side in any trenched in place piping.

What Additional Preventive and Mitigative Measures Must an Operator Take? -USDOT 192.935

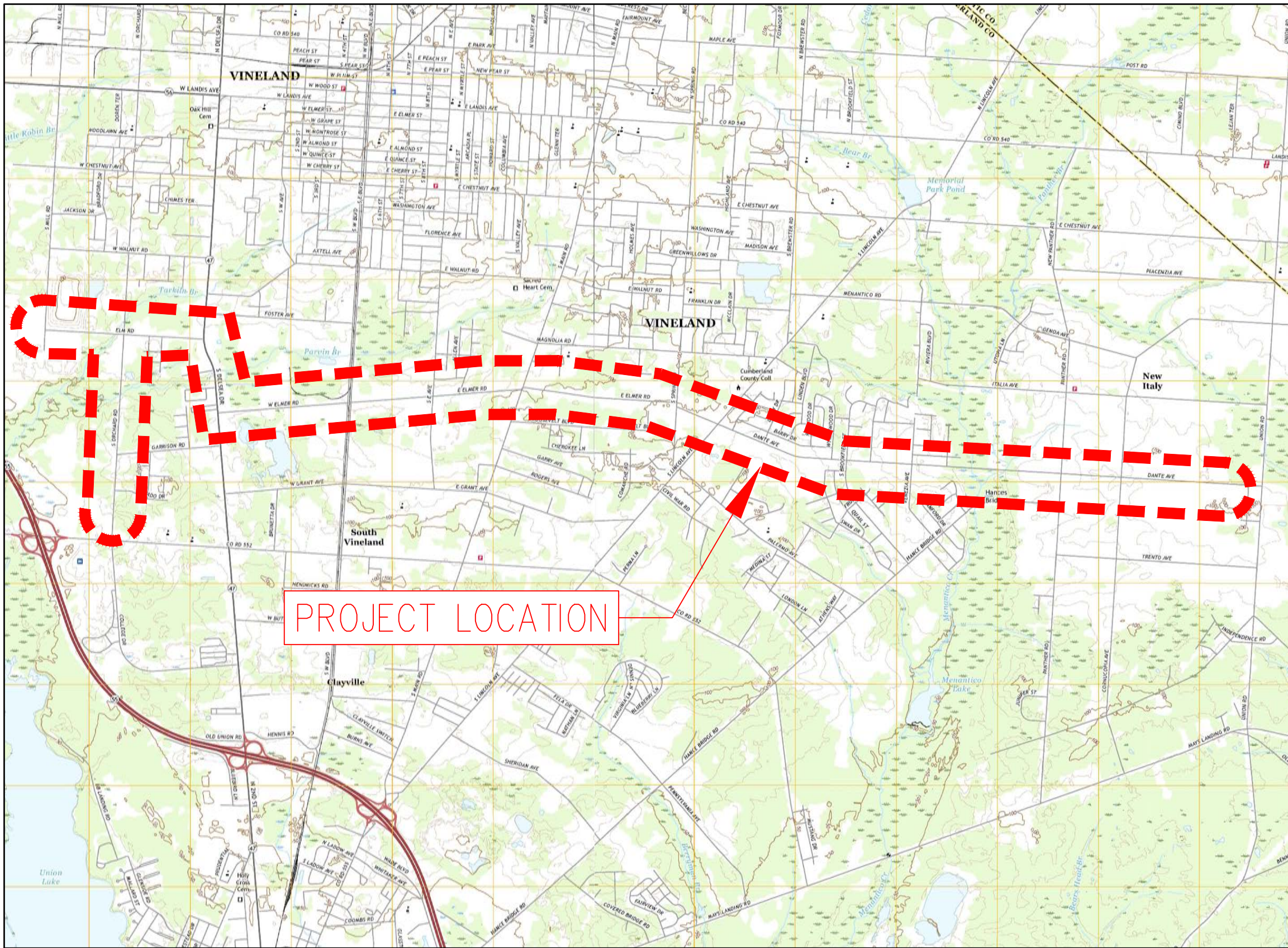
All above ground sectionalizing block valves shall be designed to be remote control valves (RCV).

EXHIBIT B

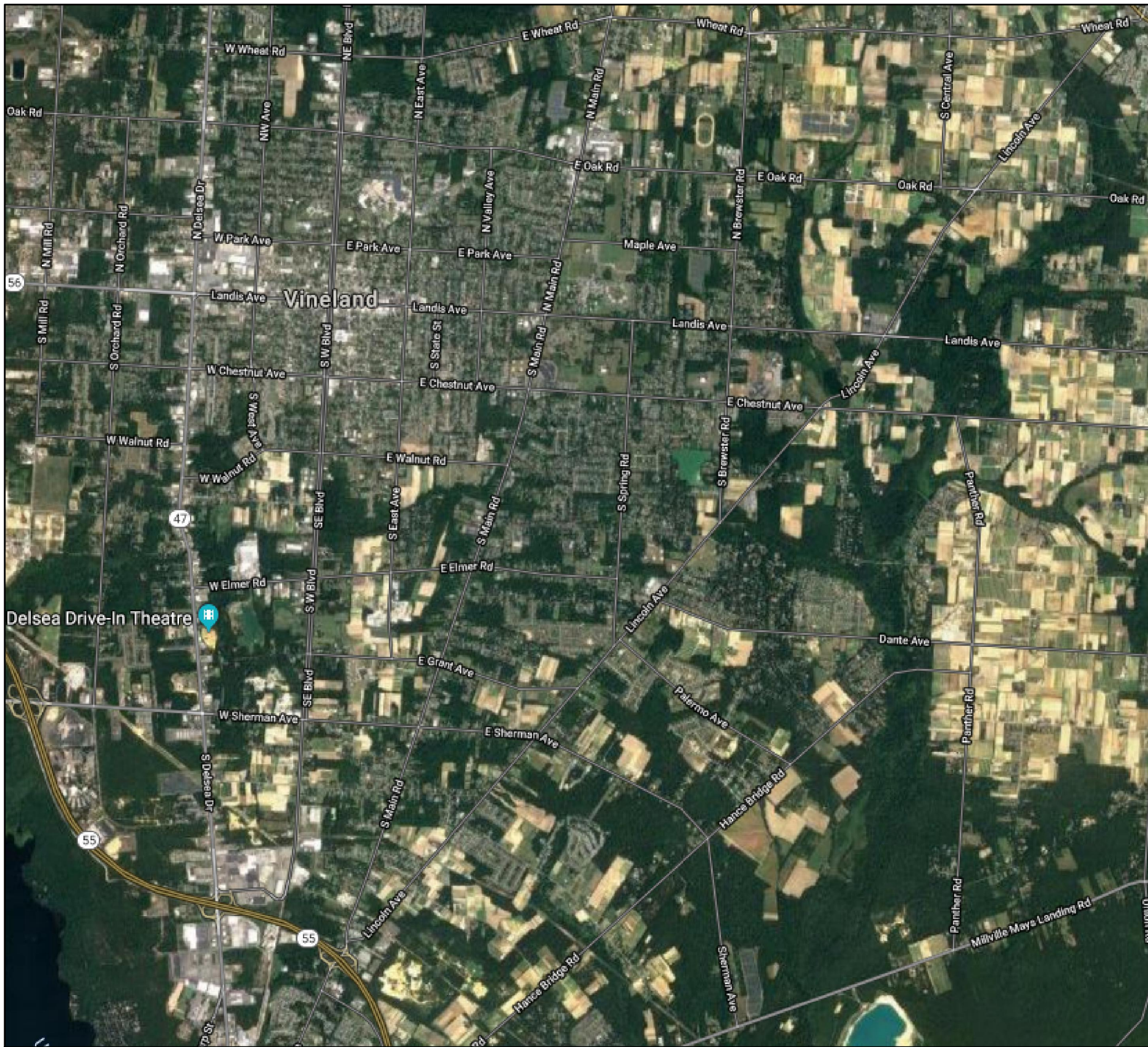
16"/8" VINELAND PROJECT
CITY OF VINELAND
CUMBERLAND COUNTY, NJ
SOUTH JERSEY GAS



VICINITY MAP



USGS 7.5 MIN. LOCATION MAP (NOT TO SCALE)
[QUADRANGLE]



OVERVIEW MAP

EXECUTIVE SUMMARY:

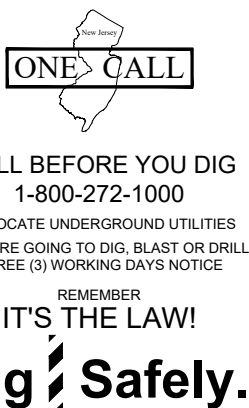
1. APPROXIMATELY 37,600 LF OF 16"O.D., X65 WRAPPED STEEL PIPE
2. APPROXIMATELY 8,759 LF OF 8.625"O.D., X52 WRAPPED STEEL PIPE

PRELIMINARY
NOT FOR CONSTRUCTION

NOTE TO CONTRACTOR:
BEFORE PERFORMING ANY WORK, THE CONTRACTOR SHALL CONTACT THE "DIG NUMBER" (PHONE 800-272-1000) FOR A MARK-OUT OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE "DIG NUMBER" AND TO ASCERTAIN THE LOCATION OF ALL UNDERGROUND CONSTRUCTION IN THE AREA OF THE PROJECT.

THE CONTRACTOR SHALL CONDUCT TEST PITS TO VERIFY THE LOCATIONS OF UNDERGROUND UTILITIES WHERE POTENTIAL CONFLICTS MAY OCCUR OR WHERE DISCREPANCIES ARE PRESENT BETWEEN THE PLAN AND UNDERGROUND UTILITY MARK-OUTS.

THESE TEST PITS SHALL BE IN ADDITION TO THE SPECIFIED TEST PIT LOCATIONS AS DENOTED ON THE PLANS AND SHALL NOT BE LIMITED TO EXCAVATION SOLELY BUT INCLUDE ANY ADDITIONAL MEANS TO DETERMINING THE LOCATION OF UTILITIES IN QUESTION.



No.	Revision	Approve	Date
1	ISSUED FOR REVIEW		06/07/19
2	PRELIMINARY BASEMAPS FOR REVIEW		09/30/19
3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
4			
5			
6			
7			
8			
9			

PETER WILDERS, PE
NJ LICENSE #24GE04327300



1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16"/8" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
COVER SHEET

16"/8" VINELAND PROJECT

CITY OF VINELAND	CUMBERLAND COUNTY	NJ
DRAWN BY SC	DATE 05/03/19	PLATE MAP
CHECKED BY DPK	SCALE NOT TO SCALE	MAP
APPROVED BY FZ	SHEET 1 OF 33	DWG. NO. CD-C

PRELIMINARY
NOT FOR CONSTRUCTION

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CALL BEFORE YOU DIG
1-800-272-1000

TO LOCATE UNDERGROUND UTILITIES
IF YOU'RE GOING TO DIG, BLAST OR DRILL
THREE (3) WORKING DAYS NOTICE

REMEMBER
IT'S THE LAW!

Dig Safely.

No.	Revision	Approve	Date
1	ISSUED FOR REVIEW		06/07/19
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4			
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8			
9			

PETER WILDERS, PE
NJ LICENSE #24GE04327300



AWI
TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY

SC

CHECKED BY

DPK

APPROVED BY

FZ

DATE

05/03/19

SCALE

NOT TO SCALE

SHEET

2

OF

33

PLATE MAP

MAP

DWG. NO.

CD-N



SOUTH JERSEY GAS

1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561 - 9000 FAX: (609) 704 - 1802

PROPOSED 16"/8" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
GENERAL NOTES

16"/8" VINELAND PROJECT

CITY OF VINELAND

CUMBERLAND COUNTY

NJ

DRWN BY

SC

DATE

05/03/19

PLATE MAP

CHECKED BY

DPK

SCALE

NOT TO SCALE

MAP

APPROVED BY

FZ

SHEET

2

OF

33

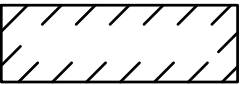
DWG. NO.

CD-N

- GENERAL NOTES:
- WHEN THE DEPTH OF TRENCH EXCEEDS 5 FT. A TRENCH BOX OR SHORING WILL BE REQUIRED.
 - ANY DRAINAGE INSTALLED AS PART OF THIS PERMIT IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR TO MAINTAIN.
 - MAINTENANCE OF ALL SIGNS AND PAVEMENT MARKINGS ARE THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR.
 - THE PERMITTEE/CONTRACTOR MUST CONTACT THE NEW JERSEY ONE-CALL SYSTEM AT 1-800-272-1000, THREE WORKING DAYS PRIOR TO THE START OF WORK TO HAVE ALL UTILITIES MARKED IN THE WORK AREA.
 - THE PERMITTEE/CONTRACTOR SHALL RESTORE ANY DRAINAGE STRUCTURE, PIPE, UTILITY, PAVEMENT, CURBS, SIDEWALKS, LANDSCAPED AREAS, OR SIGNAGE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
 - EXISTING UTILITIES AND STORM DRAINAGE SYSTEMS ARE SHOWN TO ALERT THE PERMITTEE/CONTRACTOR TO THEIR PRESENCE AND THE PERMITTEE/CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STORM DRAINAGE SYSTEMS INCLUDING SERVICES. APPROXIMATE LOCATIONS OF EXISTING UTILITIES AND SURFACE FEATURES ARE BASED ON FIELD SURVEY, AND/OR NJ ONE-CALL RESPONSES.
 - EXISTING TOPOGRAPHY OBTAINED FROM NEW JERSEY GEOGRAPHIC INFORMATION NETWORK.
 - PARCEL AND RIGHT-OF-WAY INFORMATION OBTAINED FROM NEW JERSEY GEOGRAPHIC INFORMATION NETWORK.
 - CONTRACTOR TO COORDINATE WITH CITY OF VINELAND PRIOR TO CONSTRUCTION TAKING PLACE.
 - ANY ACTIVITY PERFORMED ON AN ACE FACILITY IDENTIFIED AS A COVERED TASK MUST BE COMPLETED BY AN INDIVIDUAL(S) WITH THE PROPER OPERATOR QUALIFICATIONS.
 - CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND FOREIGN UTILITIES PRIOR TO START OF WORK.
 - ALL PIPE SHALL BE INSTALLED AT A MINIMUM OF 48 INCHES BELOW GRADE.
 - PIPE SHALL BE INSPECTED PRIOR TO INSTALLATION. DAMAGED AND/OR MISSING PIPE COATING SHALL BE PROPERLY REPAIRED IN FIELD.
 - PIPE SHALL BE TESTED TO XXXPSIG FOR XX HOURS.
 - CONTRACTORS MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS REGARDING THE USE AND DISPOSAL OF EXCESS MATERIAL.
 - CRITICAL BEND RADIUS OF PIPE AS ESTABLISHED PER MANUFACTURER SPECIFICATIONS AND/OR SJG CONSTRUCTION MANUAL SHALL NOT BE EXCEEDED.
 - PIPE STRUNG ALONG THE RIGHT-OF-WAY SHALL BE PLACED ON PADDING AND PADDED ROLLERS USED DURING OPERATIONS.
 - CONTRACTOR SHALL FOLLOW ALL LOCAL AND NJDOT TRAFFIC CONTROL PROCEDURES WHILE WORKING WITHIN PUBLIC AND/OR STATE RIGHT-OF-WAY.

CONSTRUCTION SEQUENCE: (TBD)

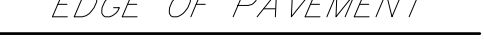
PERMITS REQUIRED	
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-	-
-	-



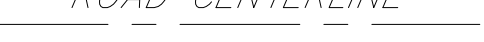
BUILDING



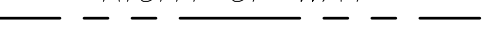
CURB



EDGE OF PAVEMENT



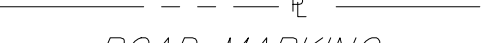
ROAD CENTERLINE



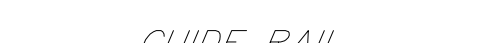
RIGHT OF WAY



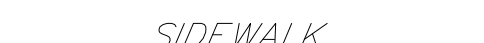
DRIVEWAYS



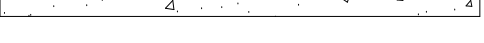
PARCEL LINE



ROAD MARKING



GUIDE RAIL



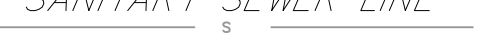
SIDEWALK



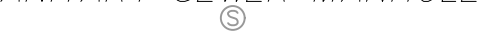
FENCE



EXISTING GAS LINE



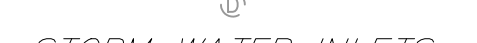
SANITARY SEWER LINE



SANITARY SEWER MANHOLE



STORM WATER LINE



STORM WATER MANHOLE



STORM WATER INLETS



WATER LINE



FIRE HYDRANT



ELECTRIC LINE



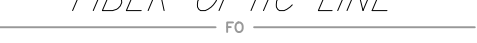
ELECTRIC VAULT



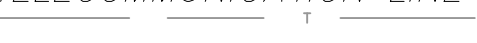
ABANDONED GAS LINE



OVERHEAD ELECTRIC LINE



FIBER OPTIC LINE



TELECOMMUNICATION LINE



PROPOSED GAS LINE



PROPOSED STAGING/LAYDOWN AREA



TREES



SIGNS



LIGHT POLE

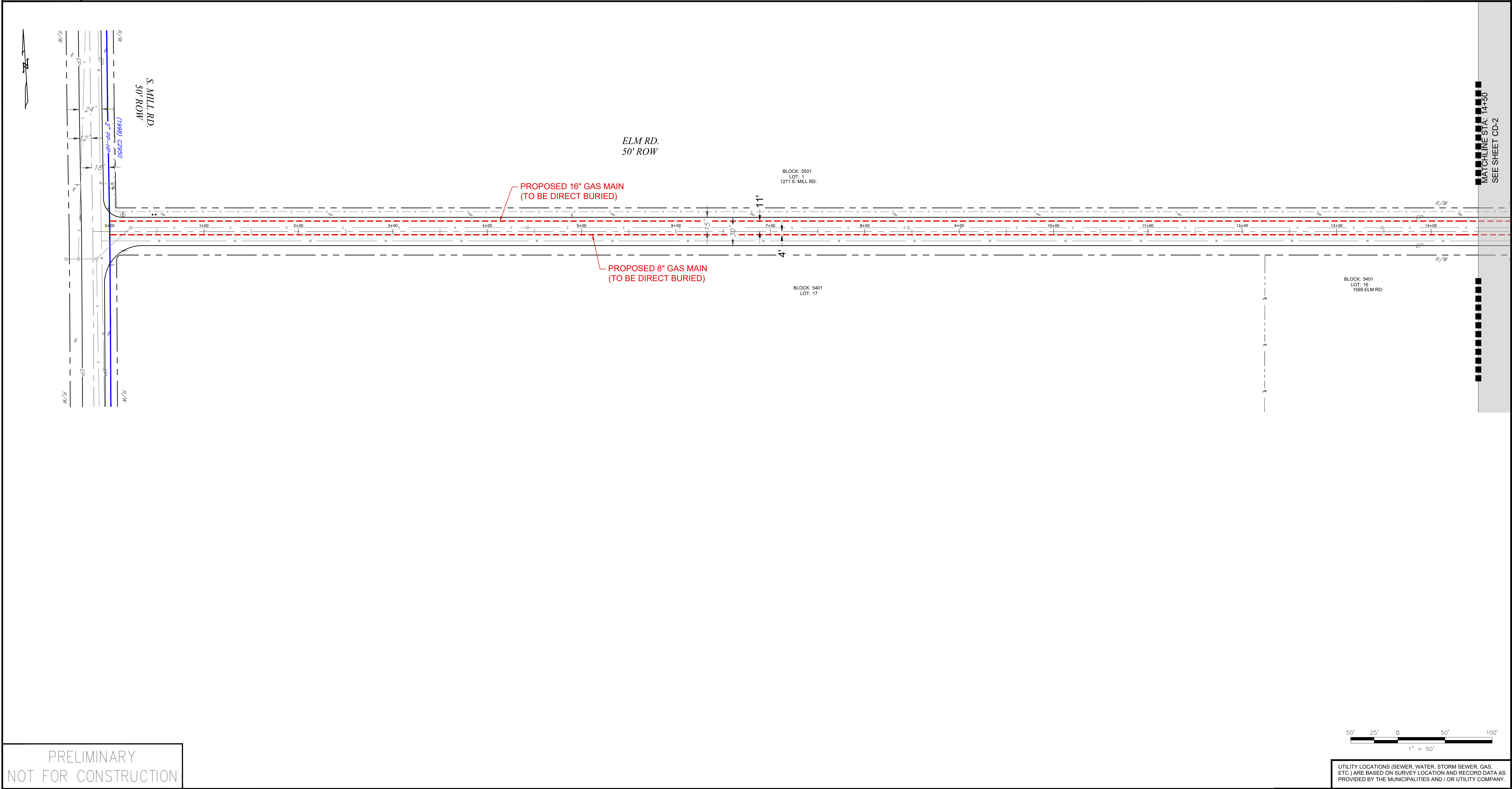


UTILITY POLE

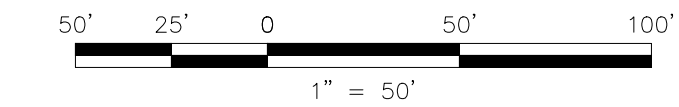
SHEET INDEX					
PAGE NO.	DRAWING NO.	DESCRIPTION	16" WS FOOTAGE	8" WS FOOTAGE	LAST REVISED
1 OF 33	CD-C	COVER	-	-	12/9/2019
2 OF 33	CD-N	GENERAL NOTES	-	-	12/9/2019
3 OF 33	CD-1	16"/8" WS - STA. 0+00 TO 14+50	1,450	1,450	12/9/2019
4 OF 33	CD-2	16"/8" WS - STA. 14+50 TO 29+25	1,475	1,115	12/9/2019
5 OF 33	CD-3	16" WS - STA. 29+25 TO 44+00	1,475	-	12/9/2019
6 OF 33	CD-4	16" WS - STA. 44+00 TO 58+75	1,486	-	12/9/2019
7 OF 33	CD-5	16" WS - STA. 58+75 TO 73+50	1,478	-	12/9/2019
8 OF 33	CD-6	16" WS - STA. 73+50 TO 88+25	1,474	-	12/9/2019
9 OF 33	CD-7	16" WS - STA. 88+25 TO 103+00	1,475	-	12/9/2019
10 OF 33	CD-8	16" WS - STA. 103+00 TO 117+75	1,475	-	12/9/2019
11 OF 33	CD-9	16" WS - STA. 117+75 TO 132+50	1,475	-	12/9/2019
12 OF 33	CD-10	16" WS - STA. 132+50 TO 147+25	1,475	-	12/9/2019
13 OF 33	CD-11	16" WS - STA. 147+25 TO 162+00	1,475	-	12/9/2019
14 OF 33	CD-12	16" WS - STA. 162+00 TO 176+75	1,466	-	12/9/2019
15 OF 33	CD-13	16" WS - STA. 176+75 TO 191+50	1,475	-	12/9/2019
16 OF 33	CD-14	16" WS - STA. 191+50 TO 206+25	1,474	-	12/9/2019
17 OF 33	CD-15	16" WS - STA. 206+25 TO 221+00	1,475	-	12/9/2019
18 OF 33	CD-16	16" WS - STA. 221+00 TO 235+75	1,493	-	12/9/2019
19 OF 33	CD-17	16" WS - STA. 235+75 TO 250+50	1,481	-	12/9/2019
20 OF 33	CD-18	16" WS - STA. 250+50 TO 265+25	1,475	-	12/9/2019
21 OF 33	CD-19	16" WS - STA. 265+25 TO 280+00	1,478	-	12/9/2019
22 OF 33	CD-20	16" WS - STA. 280+00 TO 294+75	1,475	-	12/9/2019
23 OF 33	CD-21	16" WS - STA. 294+75 TO 309+50	1,475	-	12/9/2019
24 OF 33	CD-22	16" WS - STA. 309+50 TO 324+25	1,475	-	12/9/2019
25 OF 33	CD-23	16" WS - STA. 324+25 TO 339+00	1,475	-	12/9/2019
26 OF 33	CD-24	16" WS - STA. 339+00 TO 353+75	1,475	-	12/9/2019
27 OF 33	CD-25	16" WS - STA. 353+75 TO 368+50	1,475	-	12/9/2019
28 OF 33	CD-26	16" WS - STA. 368+50 TO 375+66	720	-	12/9/2019
29 OF 33	CD-27	8" WS - STA. 0+00 TO 14+50	-	1,435	12/9/2019
30 OF 33	CD-28	8" WS - STA. 14+50 TO 29+25	-	1,475	12/9/2019
31 OF 33	CD-29	8" WS - STA. 29+25 TO 44+00	-	1,475	12/9/2019
32 OF 33	CD-30	8" WS - STA. 44+00 TO 58+75	-	1,475	12/9/2019
33 OF 33	CD-31	8" WS - STA. 58+75 TO 62+09	-	334	12/9/2019

BILL OF MATERIALS				
ITEM	STOCK #	DESCRIPTION	QTY	UNITS
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
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29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	ELM RD. PUBLIC ROW		
STATION	0+00		14+50
FOOTAGE	1,450' / 1,450'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE / 8" O.D. 0.277" WALL, X52 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION



UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

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PETER WILDERS, PE
NJ LICENSE #24GE04327300

AWI
TECHNICAL SOLUTIONS

A **PERKINS+WORTH** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

SOUTH JERSEY GAS

1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

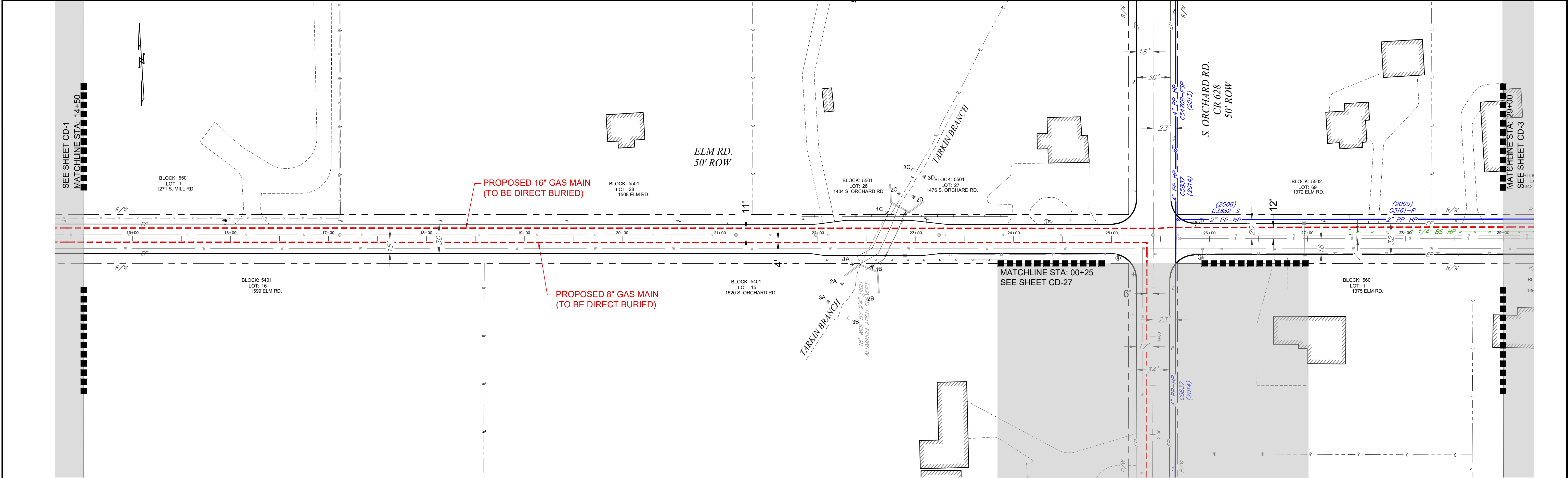
PROPOSED 16"/8" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 1

16"/8" VINELAND PROJECT
ELM RD.
CUMBERLAND COUNTY NJ

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	3 OF 33	DWG. NO. CD-1

DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project IFR.dwg
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	ELM RD. PUBLIC ROW		
STATION	14+50		29+00
FOOTAGE	1,450' / 1,107'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE / 8" O.D. 0.277" WALL, X52 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

NOTE TO CONTRACTOR:
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CALL BEFORE YOU DIG
1-800-272-1000

TO LOCATE UNDERGROUND UTILITIES
IF YOU'RE GOING TO DIG, BLAST OR DRILL
THREE (3) WORKING DAYS NOTICE

REMEMBER
IT'S THE LAW!

Dig Safely.

No.	Revision	Approve	Date
1	ISSUED FOR REVIEW		06/07/19
2	PRELIMINARY BASEMAPS FOR REVIEW		09/30/19
3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
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PETER WILDERS, PE
NJ LICENSE #24GE04327300

TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

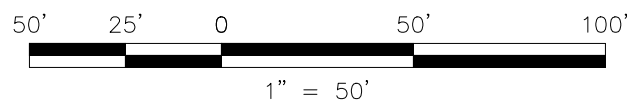
VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	4 OF 33	DWG. NO.

1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16"/8" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 2

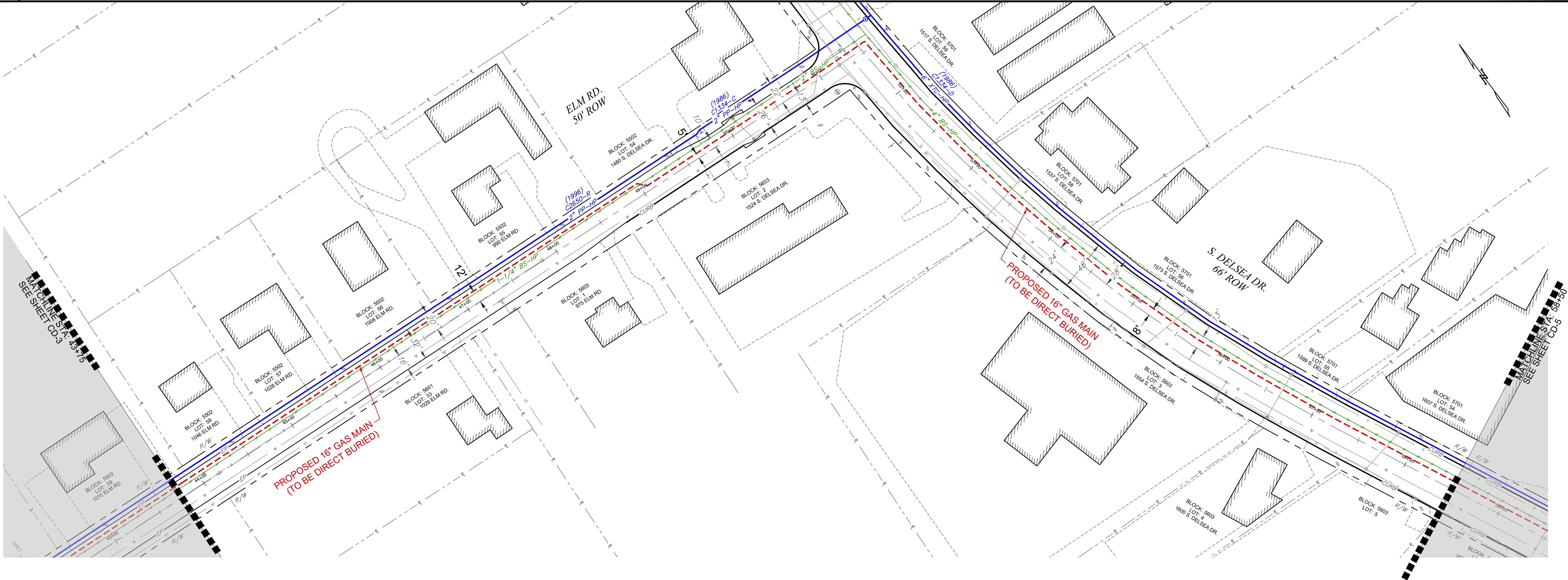
16"/8" VINELAND PROJECT
ELM RD.
CUMBERLAND COUNTY NJ



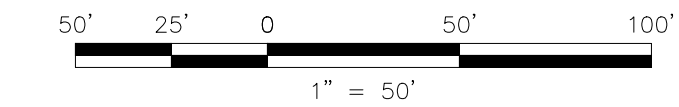
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P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project IFR.dwg	
5/29/2019	dkrupa
DRAWING LOCATION	
LAST DATE SAVED	
LAST SAVE BY	

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	ELM RD. & S. DELSEA DR. PUBLIC ROW		
STATION	43+75		58+50
FOOTAGE	1478'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

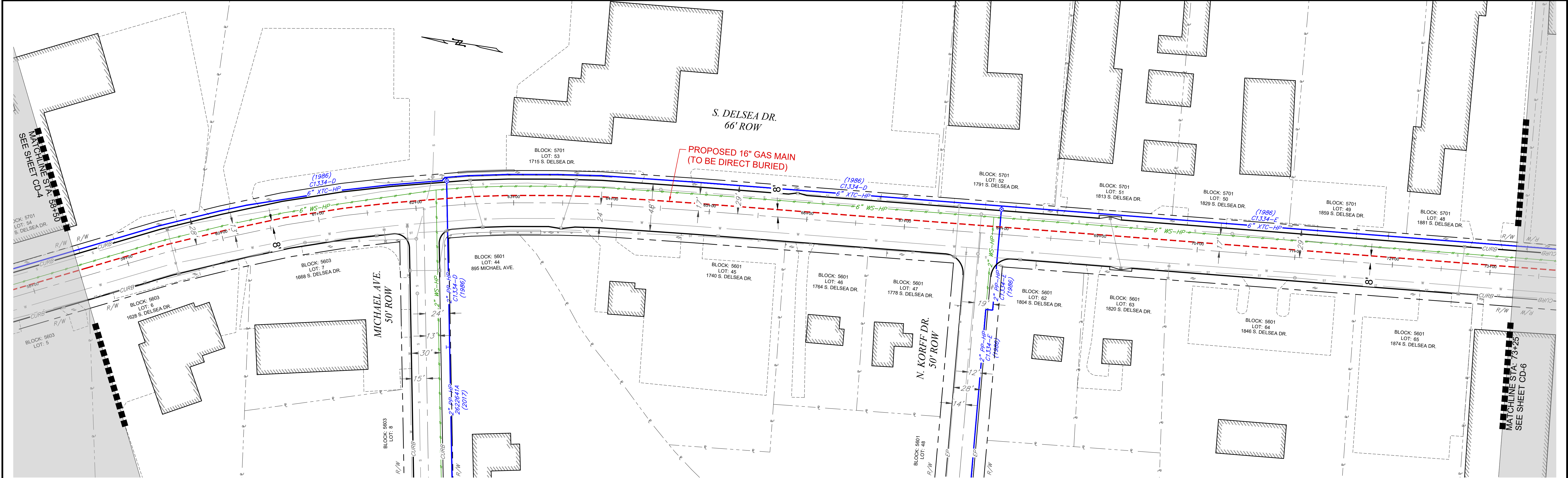


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5/29/2019	dkrupa
DRAWING LOCATION	
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COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	S. DELSEA DR. PUBLIC ROW		
STATION	58+50		73+25
FOOTAGE	1,470'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



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PETER WILDERS, PE
NJ LICENSE #24GE04327300

TECHNICAL SOLUTIONS
A HANWELLS-BROWN Group Company

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BLUE BELL, PA 1
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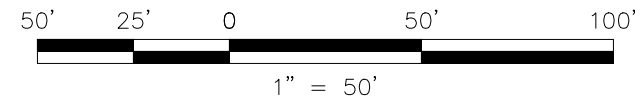
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1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 5

16"8" VINELAND PROJECT
S. DELSEA DR.
CUMBERLAND COUNTY

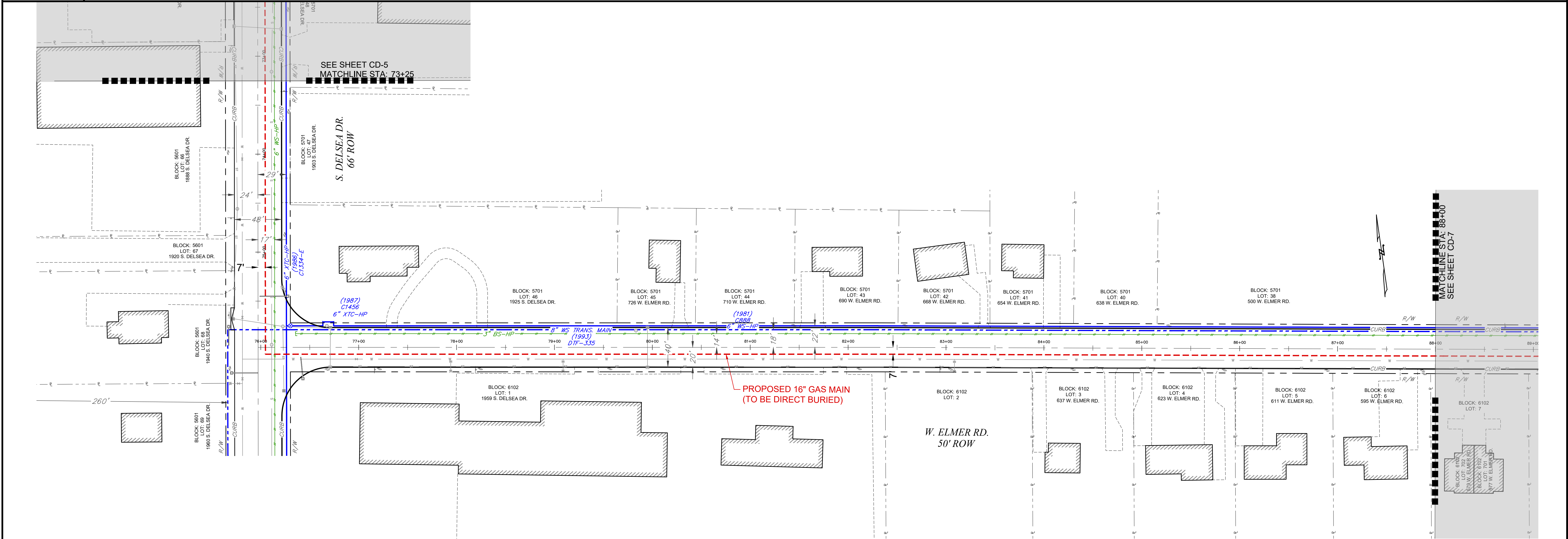
CITY OF VINELAND NJ



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LAST SAVE BY	dkupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	S. DELSEA DR. & W. ELMER RD. PUBLIC ROW		
STATION	73+25		88+00
FOOTAGE	1,474'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



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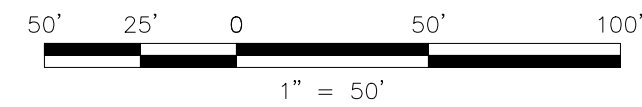
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1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
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PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 6

16"8" VINELAND PROJECT
S. DELSEA DR. & W. ELMER RD.
CUMBERLAND COUNTY

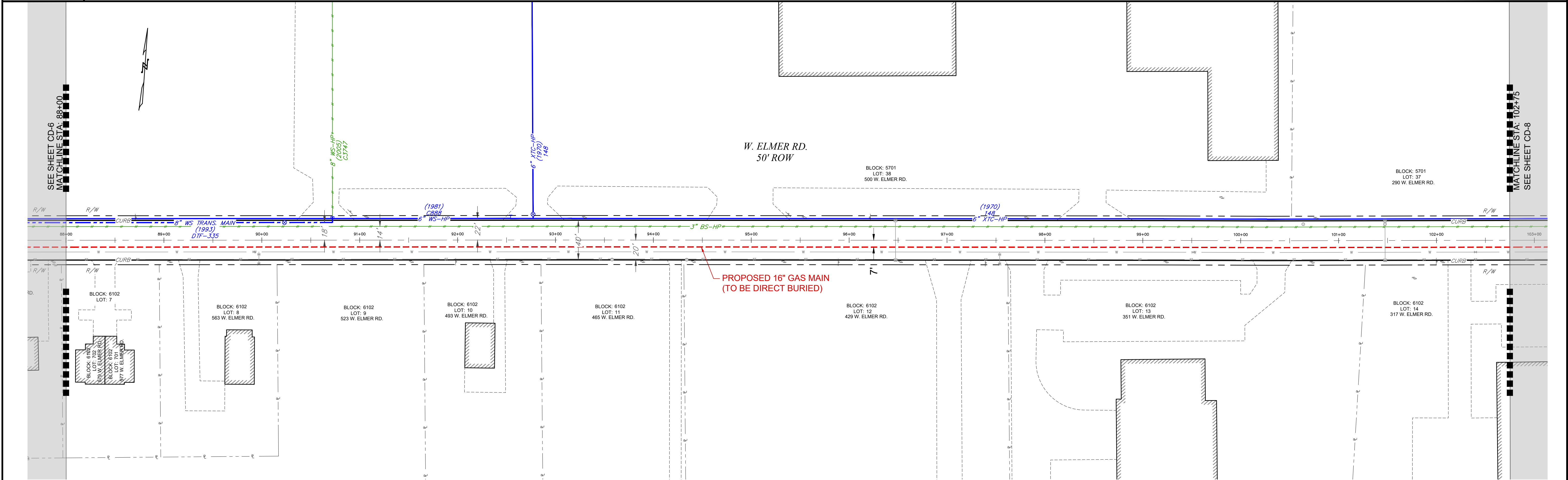
CITY OF VINELAND NJ



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COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	W. ELMER RD. PUBLIC ROW		
STATION	88+00		102+75
FOOTAGE	1,475'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



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P: 484-344-2161

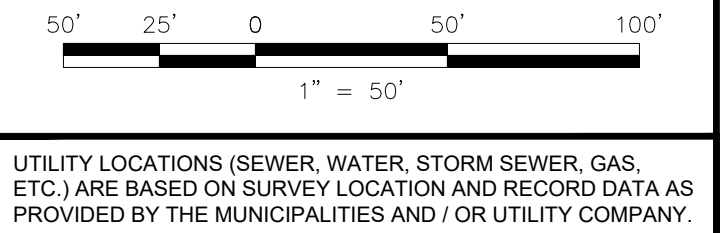
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PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 7

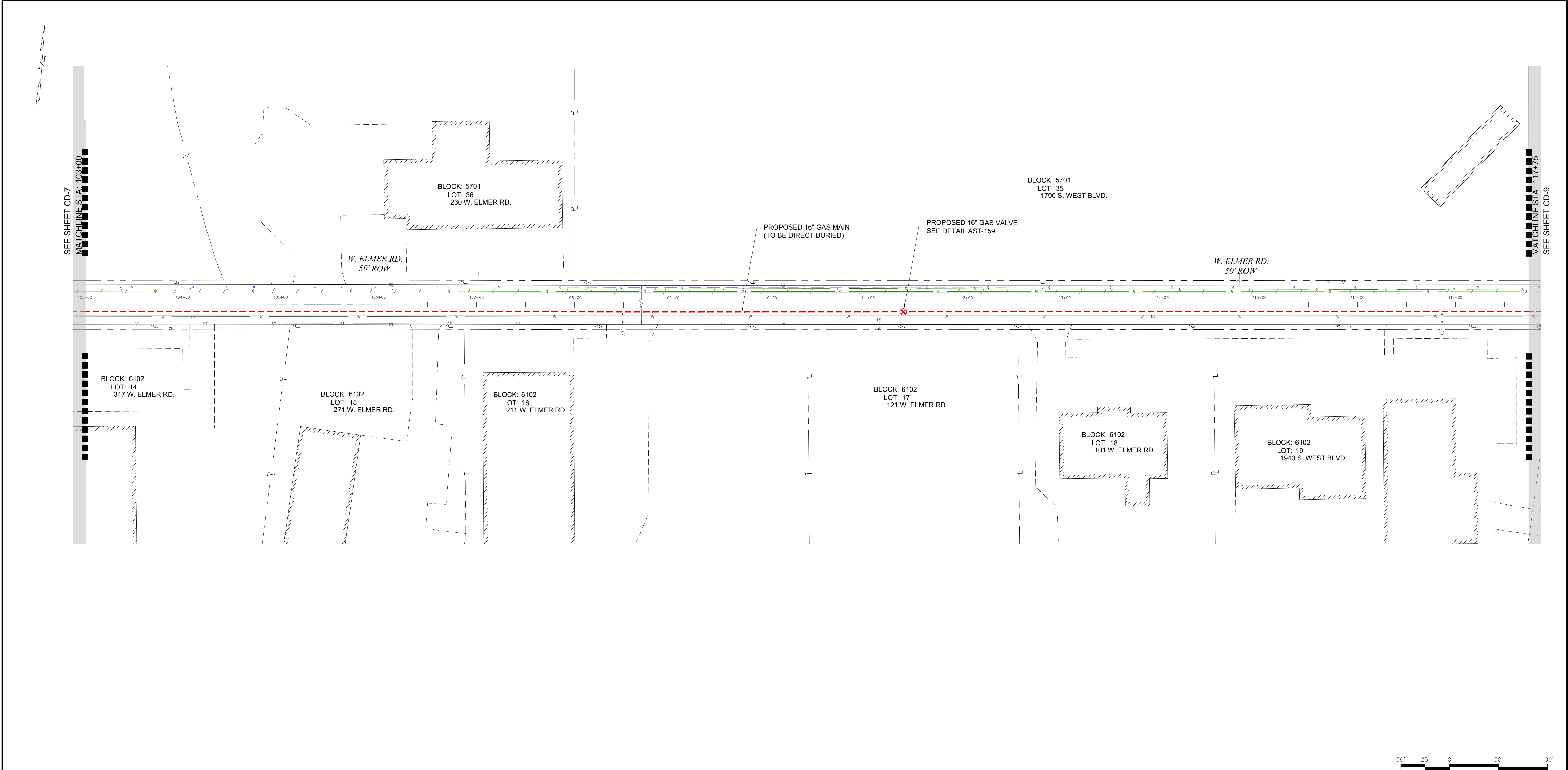
16"8" VINELAND PROJECT
W. ELMER RD.
CUMBERLAND COUNTY NJ

CD-7



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COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	W. ELMER RD. PUBLIC ROW		
STATION	103+00		117+75
FOOTAGE	1,475'		
MATERIAL	16" O.D., X65 WRAPPED STEEL PIPE		



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PETER WILDERS, PE
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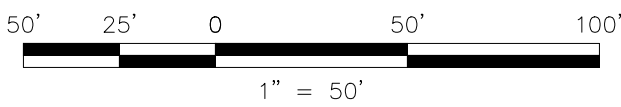


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CUMBERLAND DIVISION
ALIGNMENT 8

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CUMBERLAND COUNTY NJ

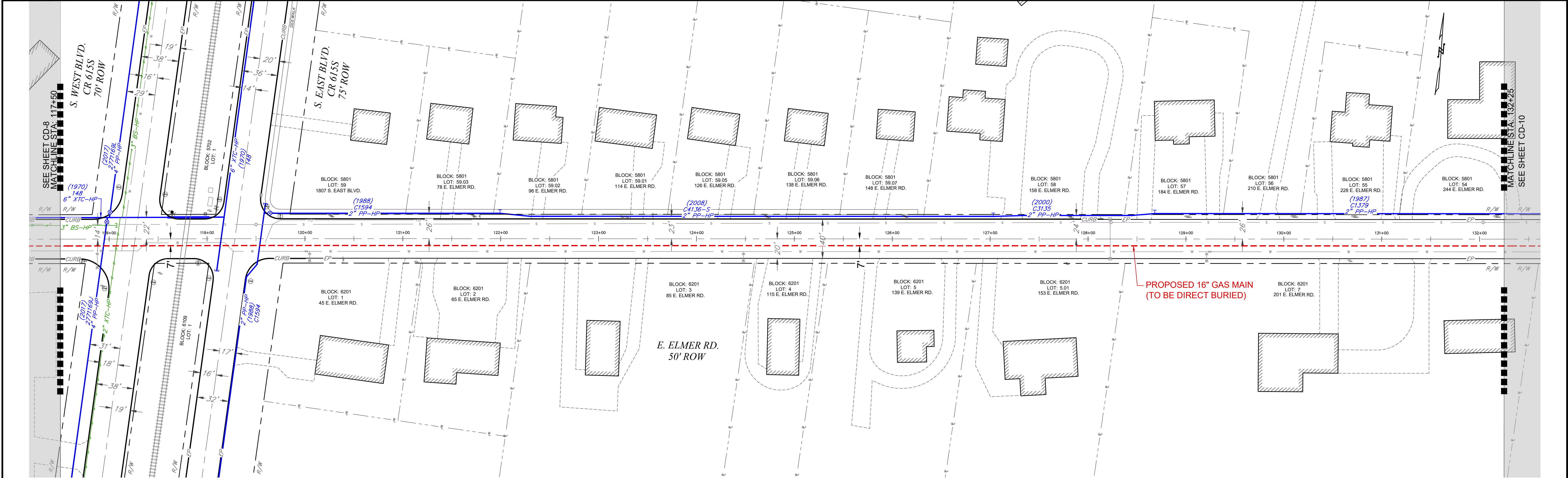
CITY OF VINELAND



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COUNTY	CUMBERLAND COUNTY		
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OWNER & PARCEL	E. ELMER RD. PUBLIC ROW		
STATION	117+50		132+25
FOOTAGE	1,475'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



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BLUE BELL, PA 1
P: 484-344-2161

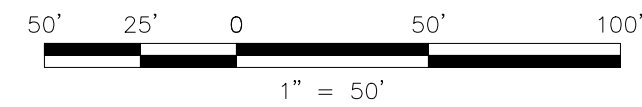
DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	11 OF 33	DWG. NO.

1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 9

16" 8" VINELAND PROJECT
E. ELMER RD.
CUMBERLAND COUNTY NJ

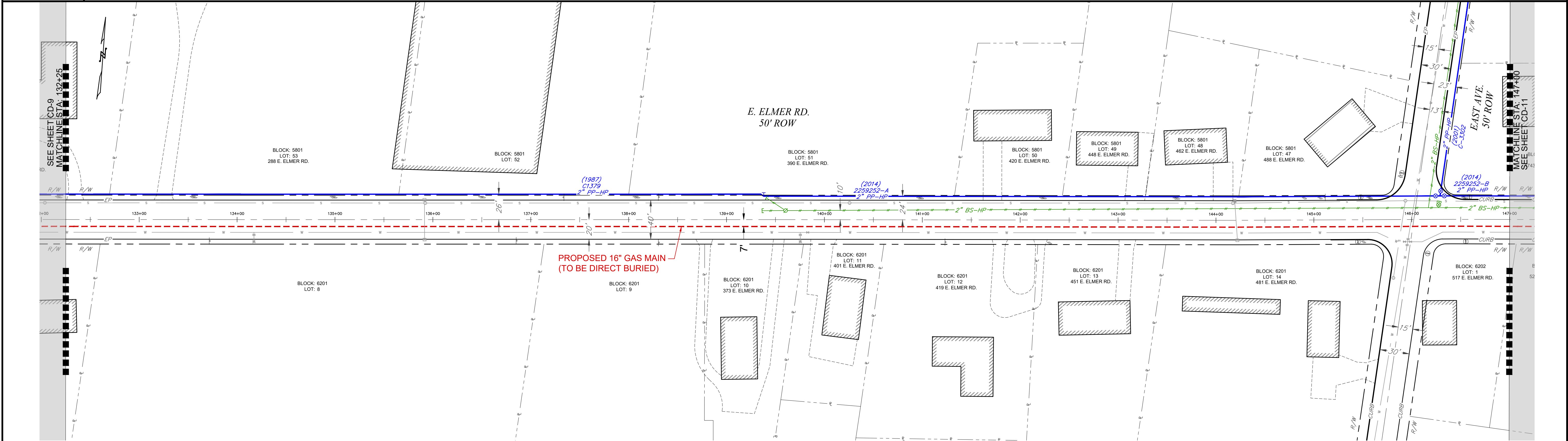
CITY OF VINELAND	DATE	05/03/19	PLATE MAP
DRAWN BY	SC	SCALE	1"=50'
CHECKED BY	DPK	SHEET	11 OF 33
APPROVED BY	FZ	DWG. NO.	CD-9



UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	E. ELMER RD. PUBLIC ROW		
STATION	132+25		147+00
FOOTAGE	1,475'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

NOTE TO CONTRACTOR:
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CALL BEFORE YOU DIG
1-800-272-1000

TO LOCATE UNDERGROUND UTILITIES
IF YOU'RE GOING TO DIG, BLAST OR DRILL
THREE (3) WORKING DAYS NOTICE

REMEMBER
IT'S THE LAW!
Dig Safely.

No.	Revision	Approve	Date
1	ISSUED FOR REVIEW		06/07/19
2	PRELIMINARY BASEMAPS FOR REVIEW		09/30/19
3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
4			
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	12 OF 33	DWG. NO.

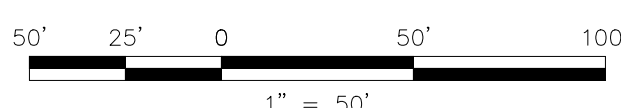


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 10

16"8" VINELAND PROJECT
E. ELMER RD.
CUMBERLAND COUNTY

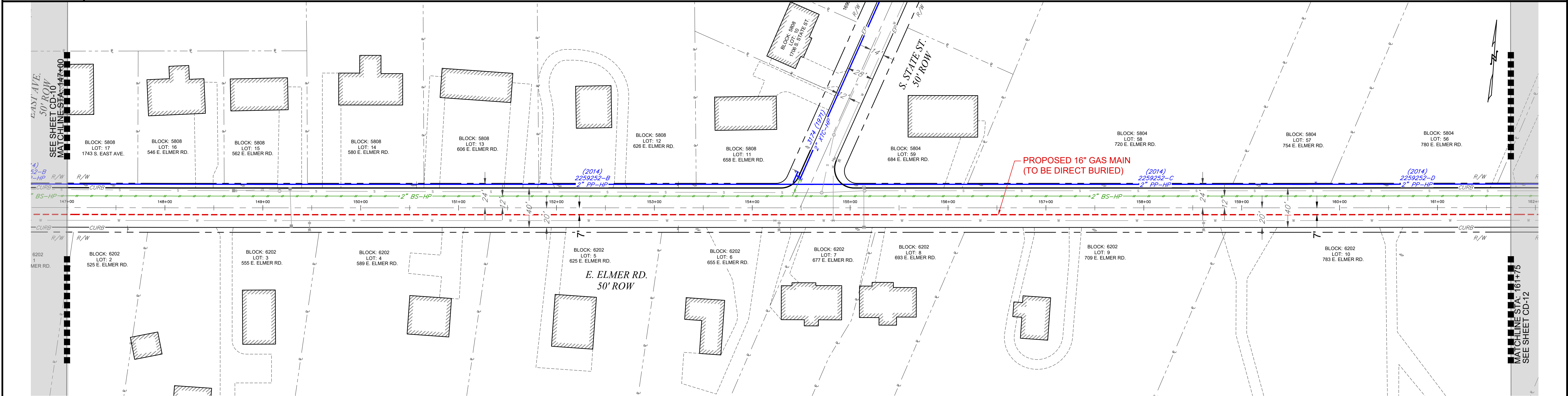
CITY OF VINELAND NJ



UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

DRAWING LOCATION	P:\Projects\Active\Pipeline\SG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	E. ELMER RD. PUBLIC ROW		
STATION	147+00		161+75
FOOTAGE	1,475'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

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No.	Revision	Approve	Date
1	ISSUED FOR REVIEW		06/07/19
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3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
4			
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PETER WILDERS, PE
NJ LICENSE #24GE04327300

TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

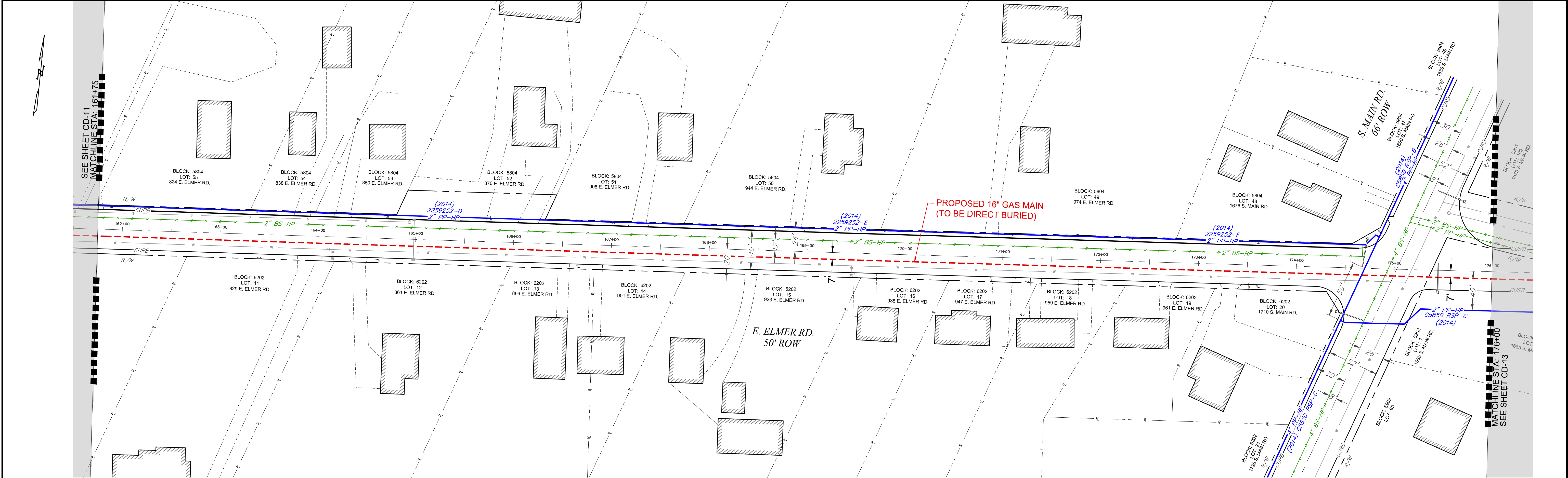
1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 11

16" 8" VINELAND PROJECT
E. ELMER RD.
CUMBERLAND COUNTY NJ

DRAWN BY	SC	DATE	05/03/19	PLATE MAP	
CHECKED BY	DPK	SCALE	1"=50'	MAP	
APPROVED BY	FZ	SHEET	13	OF	33
				DWG. NO.	CD-11

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	E. ELMER RD. & S MAIN RD. PUBLIC ROW		
STATION	161+75		176+00
FOOTAGE	1,425'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

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No.	Revision	Approve	Date
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3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	14 OF 33	DWG. NO.

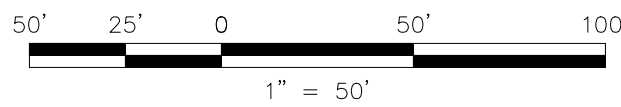


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 12

16"8" VINELAND PROJECT
E. ELMER RD. & S MAIN RD.
CUMBERLAND COUNTY NJ

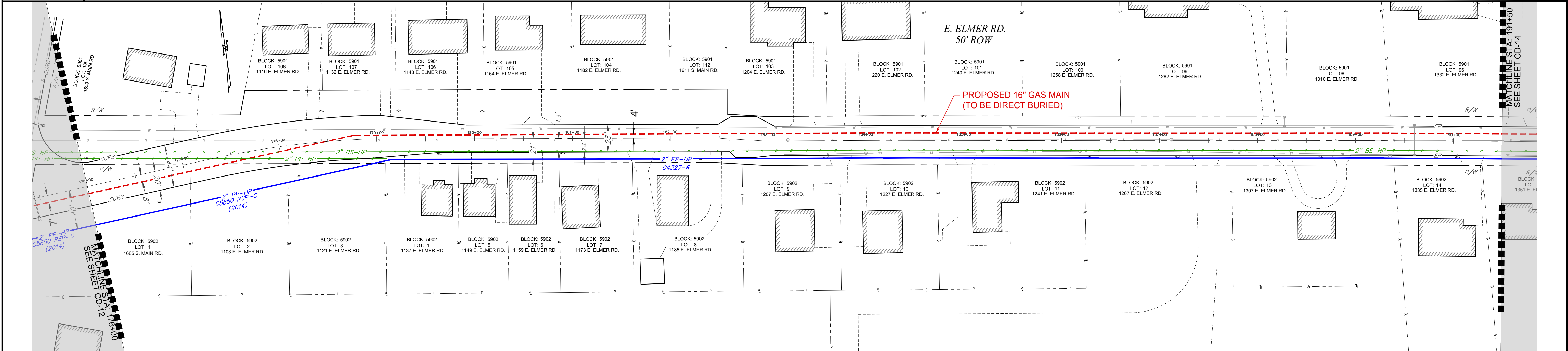
CITY OF VINELAND



UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project IFR.dwg
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	E. ELMER RD. PUBLIC ROW		
STATION	176+00		191+50
FOOTAGE	1550'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
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No.	Revision	Approve	Date
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS
A HANWELL GROUP COMPANY

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	15 OF 33	DWG. NO.

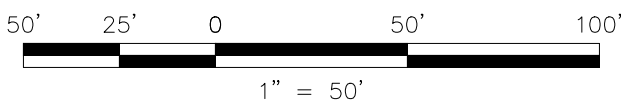


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 13

16"8" VINELAND PROJECT
E. ELMER RD.
CUMBERLAND COUNTY NJ

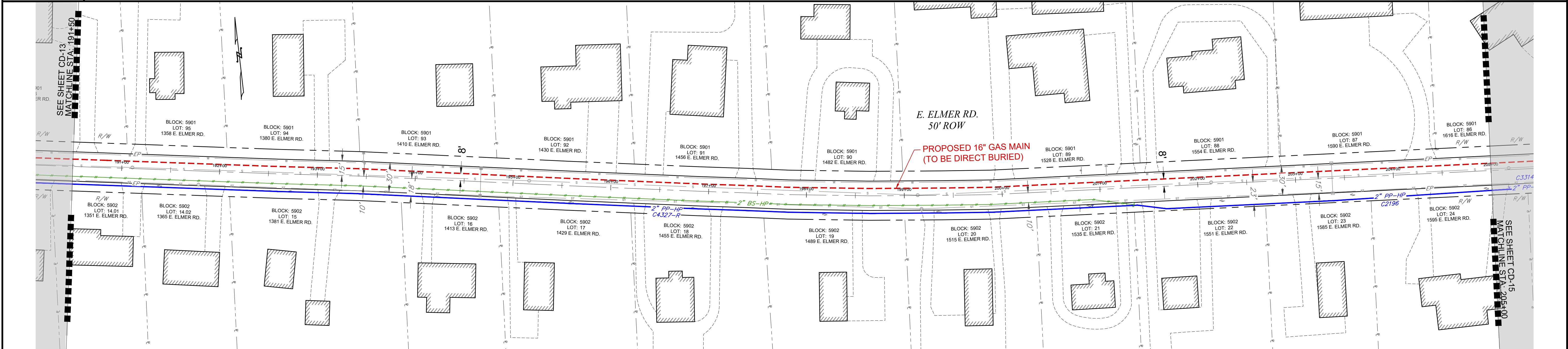
CITY OF VINELAND



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DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG South Jersey Gas\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project IFR.dwg
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	E. ELMER RD. PUBLIC ROW		
STATION	191+50		205+00
FOOTAGE	1,350'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
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3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
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PETER WILDERS, PE
NJ LICENSE #24GE04327300

TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

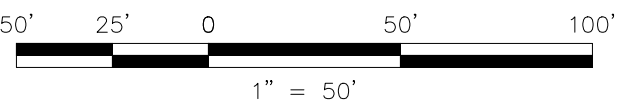
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CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	16 OF 33	DWG. NO.

1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 14

16"8" VINELAND PROJECT
E. ELMER RD.
CUMBERLAND COUNTY NJ

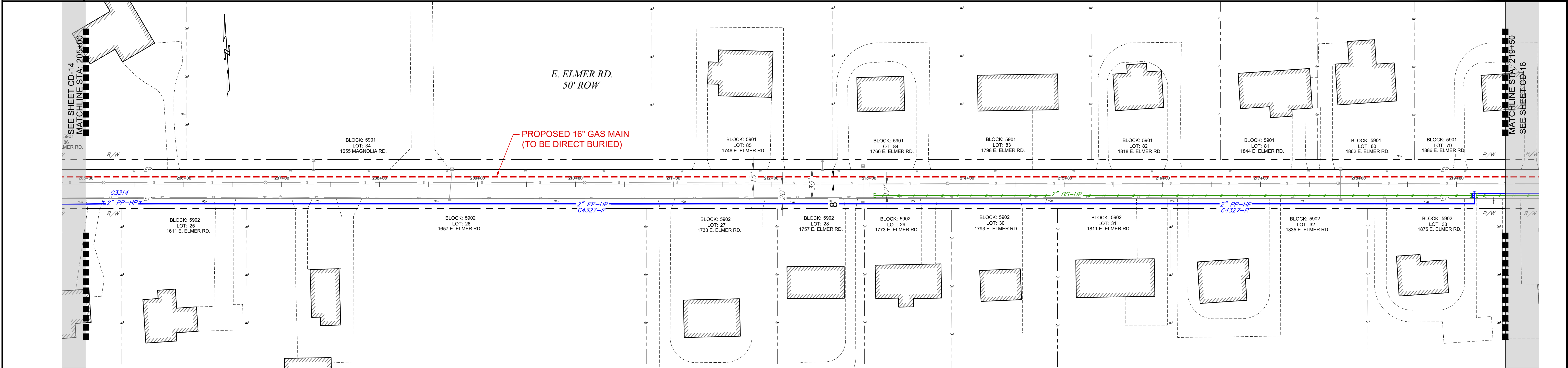
CITY OF VINELAND



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P:\Projects\Active\Pipeline\SG (South Jersey Gas)\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project IFR.dwg	
5/29/2019	dkrupa
DRAWING LOCATION	
LAST DATE SAVED	
LAST SAVE BY	

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	E. ELMER RD. PUBLIC ROW		
STATION	205+00		219+50
FOOTAGE	1,450'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

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3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS
A HANWELLS GROUP COMPANY

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	17 OF 33	DWG. NO.

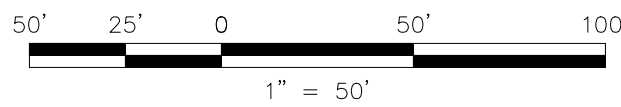


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561 - 9000 FAX: (609) 704 - 1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 15

16"8" VINELAND PROJECT
E. ELMER RD.
CUMBERLAND COUNTY

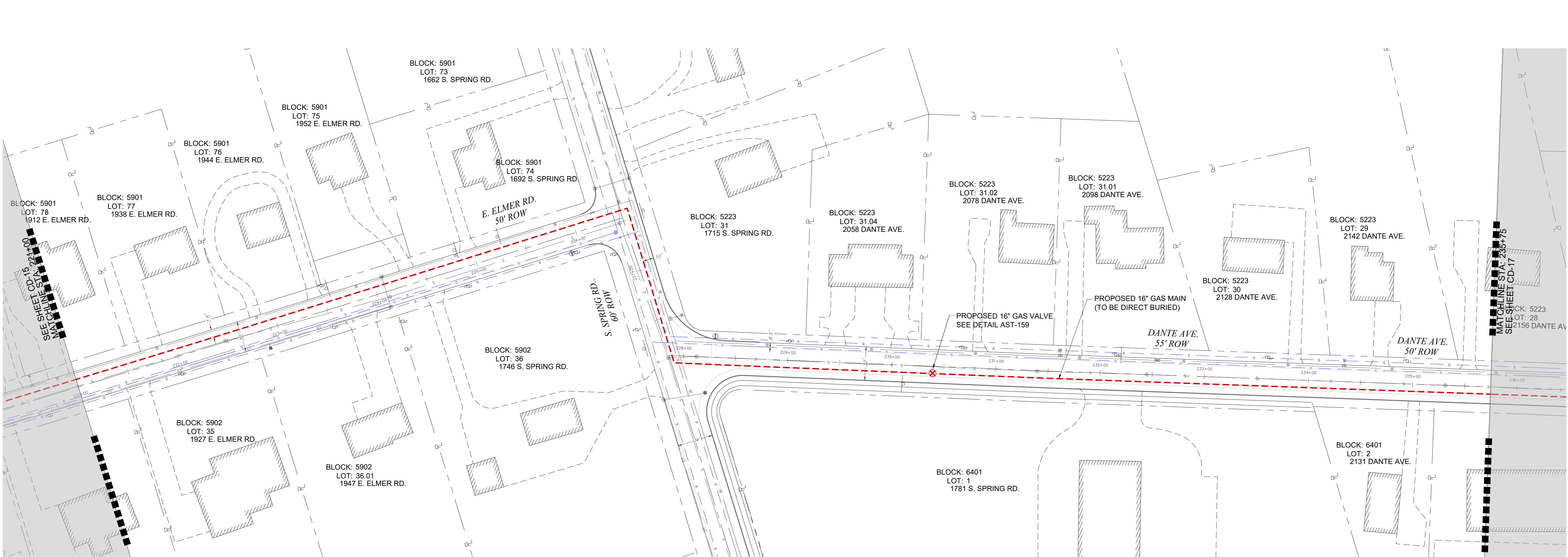
CITY OF VINELAND NJ



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PI\Projects\Active\Pipeline\SJG South Jersey Gas\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project IFR.dwg	
5/29/2019	dKrupa
DRAWING LOCATION	
LAST DATE SAVED	
LAST SAVE BY	

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	E. ELMER RD. & S. SPRING RD. & DANTE AVE. PUBLIC ROW		
STATION	221+00		235+75
FOOTAGE		1,493'	
MATERIAL	16" O.D., X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

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No.	Revision	Approve	Date
1	ISSUED FOR REVIEW		06/07/19
2	PRELIMINARY BASEMAPS FOR REVIEW		09/30/19
3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP	
CHECKED BY	DPK	SCALE	1"=50'	MAP	
APPROVED BY	FZ	SHEET	18	OF	33

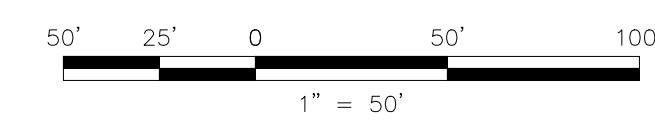


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 16

16" 8" VINELAND PROJECT
E. ELMER RD. & S. SPRING RD. & DANTE AVE.
CITY OF VINELAND CUMBERLAND COUNTY NJ

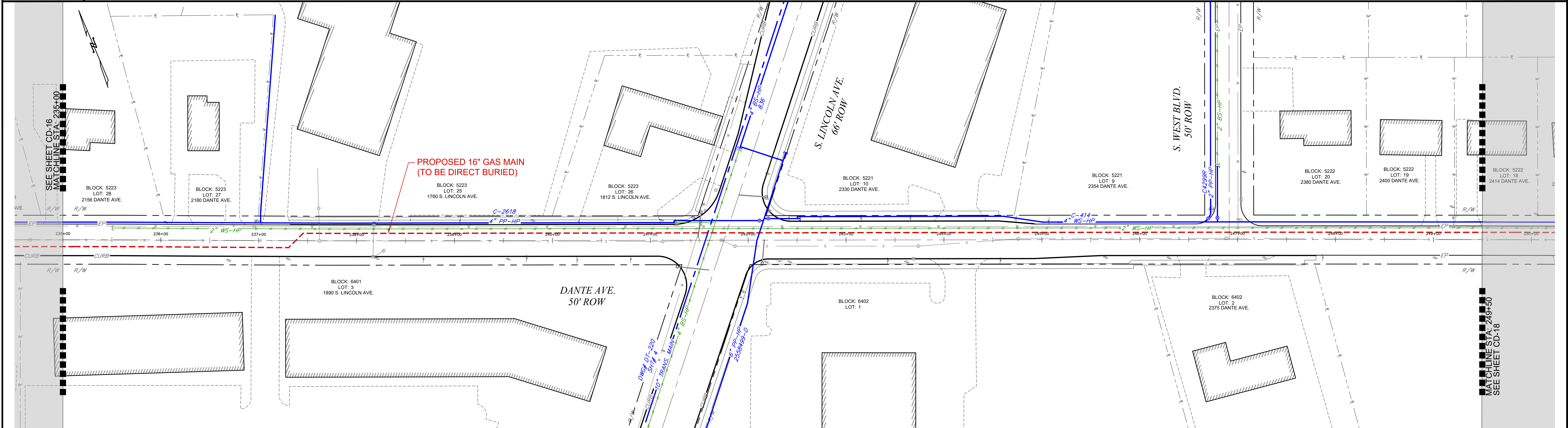
DWG. NO. CD-16



UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	DANTE AVE. PUBLIC ROW		
STATION	235+00		249+50
FOOTAGE	1,450'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

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CALL BEFORE YOU DIG
1-800-272-1000

TO LOCATE UNDERGROUND UTILITIES
IF YOU'RE GOING TO DIG, BLAST OR DRILL
THREE (3) WORKING DAYS NOTICE

REMEMBER
IT'S THE LAW!
Dig Safely.

No.	Revision	Approve	Date
1	ISSUED FOR REVIEW		06/07/19
2	PRELIMINARY BASEMAPS FOR REVIEW		09/30/19
3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
4			
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	19 OF 33	DWG. NO.

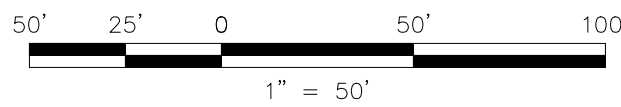


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 17

16" 8" VINELAND PROJECT
DANTE AVE.
CUMBERLAND COUNTY

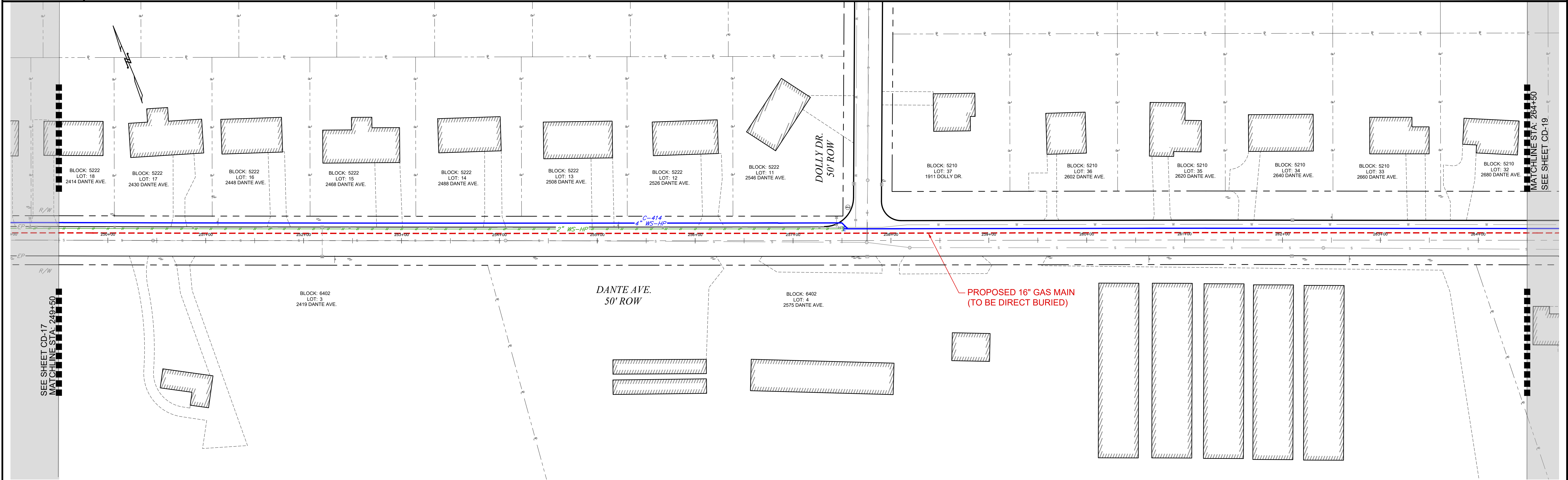
CITY OF VINELAND NJ



UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	DANTE AVE. PUBLIC ROW		
STATION	250+50		264+50
FOOTAGE	1,400'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

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3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	20 OF 33	DWG. NO.

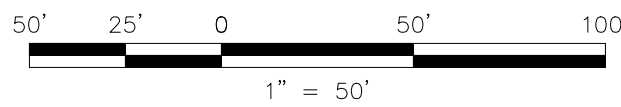


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 18

16" 8" VINELAND PROJECT
DANTE AVE.
CUMBERLAND COUNTY NJ

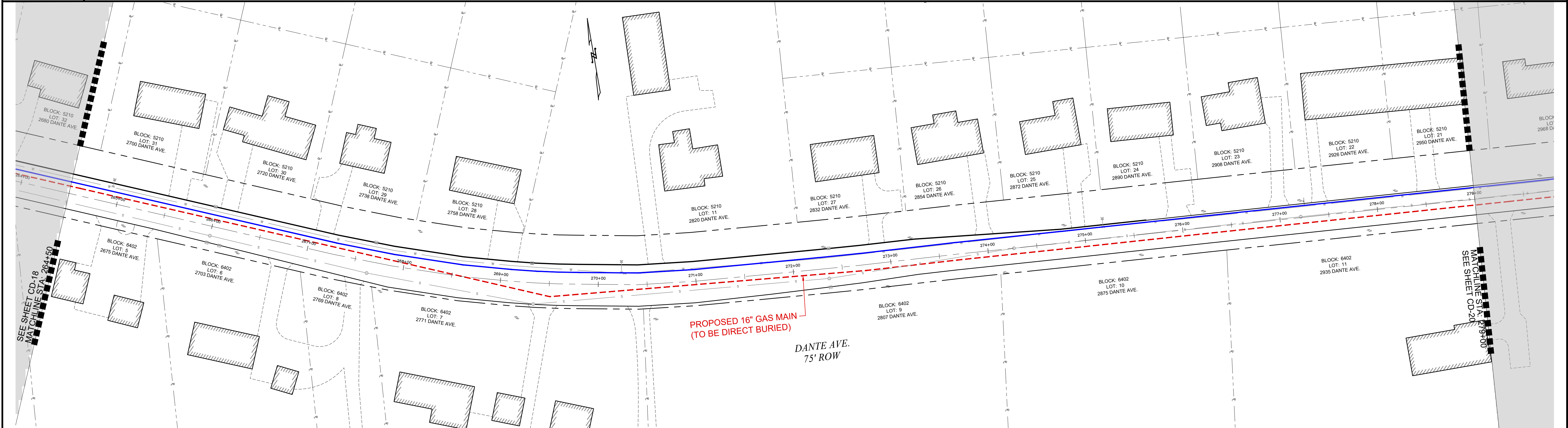
CITY OF VINELAND



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DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG South Jersey Gas\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	DANTE AVE. PUBLIC ROW		
STATION	264+50		279+00
FOOTAGE	1,450'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	21	OF 33



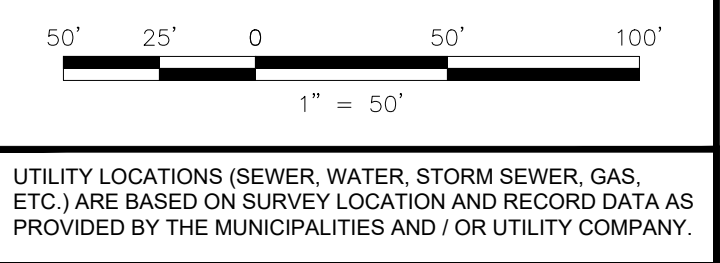
1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 19

16"/8" VINELAND PROJECT
DANTE AVE.
CUMBERLAND COUNTY

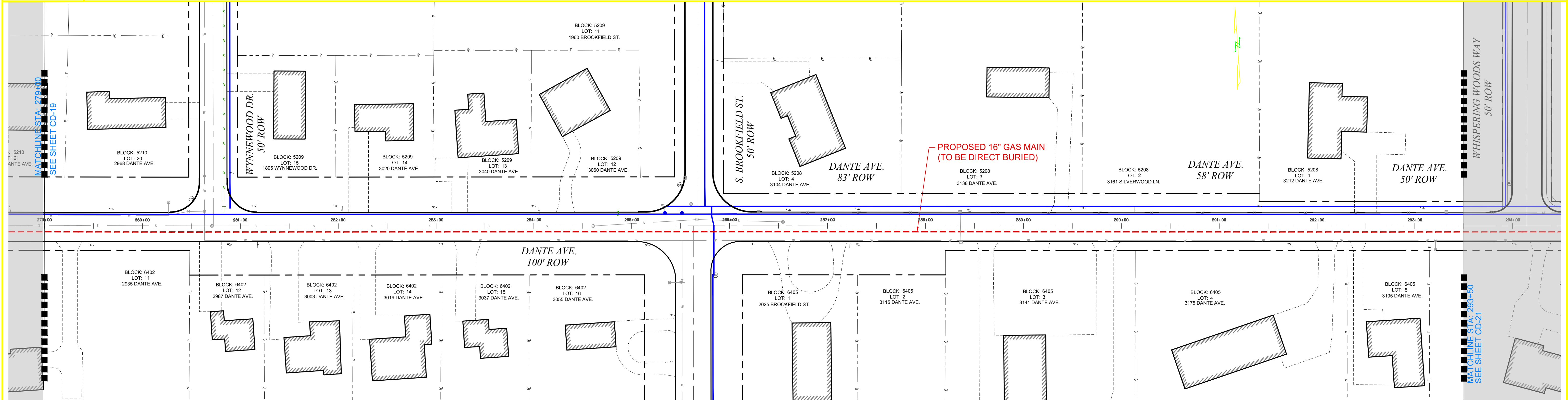
CITY OF VINELAND NJ

DWG. NO. CD-19



DRAWING LOCATION	P:\Projects\Active\Pipeline\SG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	DANTE AVE. PUBLIC ROW		
STATION	279+00		293+50
FOOTAGE		1,450'	
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161



HEWLETT-PACKARD



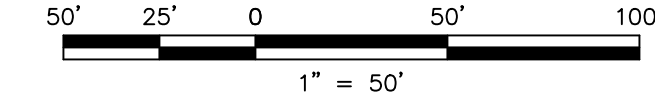
SOUTH JERSEY GAS

1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 20

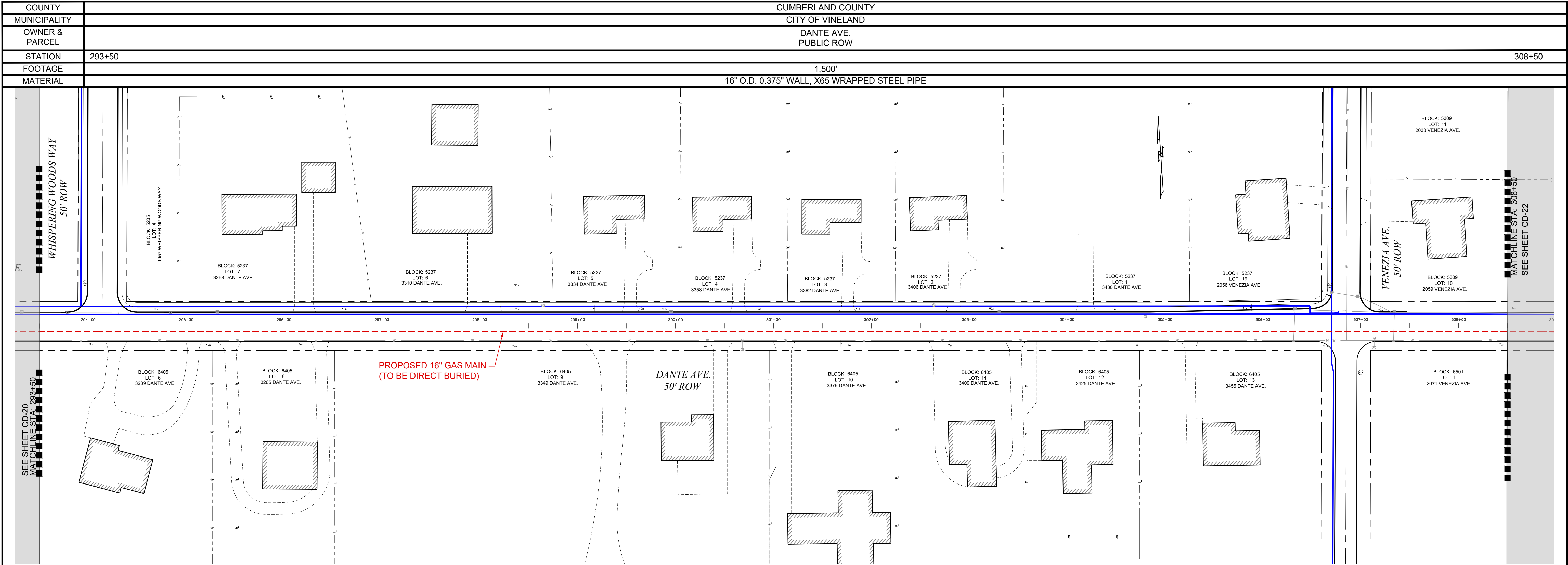
16"/8" VINELAND PROJECT
DANTE AVE.
CUMBERLAND COUNTY NJ

DRAWN BY	SC	DATE	05/03/19	PLATE MAP	
CHECKED BY	DPK	SCALE	1"=50'	MAP	
APPROVED BY	FZ	SHEET	22	OF	33
				DWG. NO.	CD-20



UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

P:\Projects\Active\Pipeline\SJG South Jersey Gas\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project IFR.dwg	
5/29/2019	dkrupa
DRAWING LOCATION	
LAST DATE SAVED	
LAST SAVE BY	



PRELIMINARY
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ONE CALL

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PETER WILDERS, PE
NJ LICENSE #24GE04327300

AWI
TECHNICAL SOLUTIONS

A **WHEELER-DEWITT** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	23 OF 33	DWG. NO.

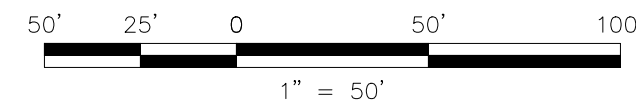
SOUTH JERSEY GAS

1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 21

16"8" VINELAND PROJECT
DANTE AVE.
CUMBERLAND COUNTY NJ

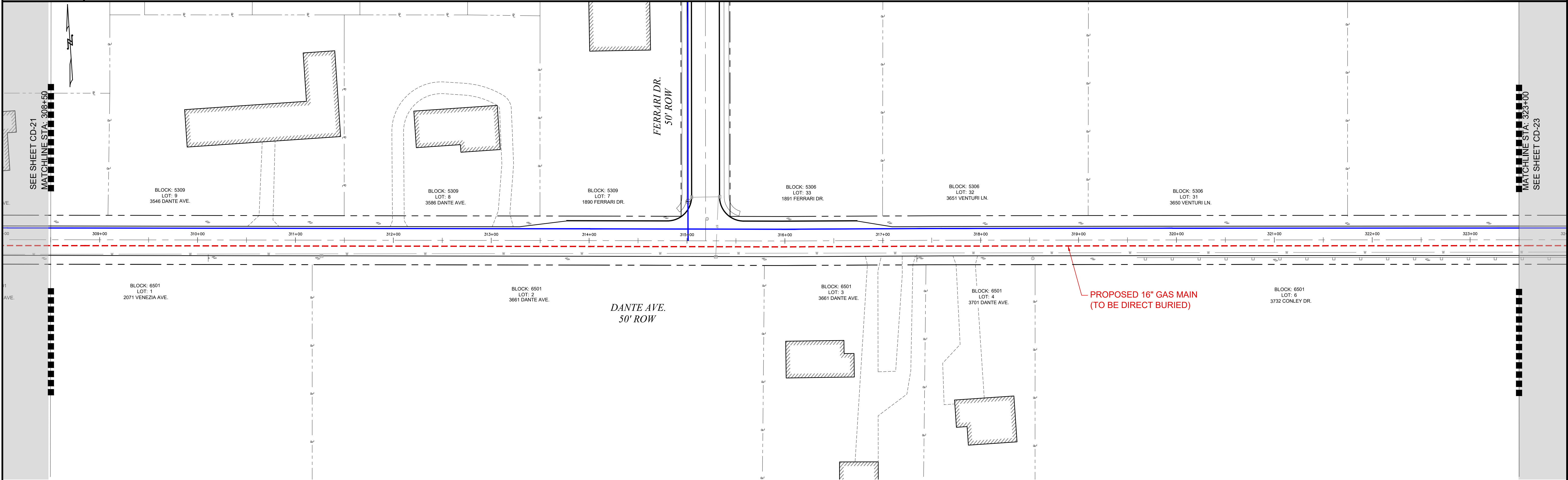
CITY OF VINELAND



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DRAWING LOCATION	P:\Projects\Active\Pipeline\SG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	DANTE AVE. PUBLIC ROW		
STATION	308+50		323+00
FOOTAGE	1,450'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	24 OF 33	DWG. NO.



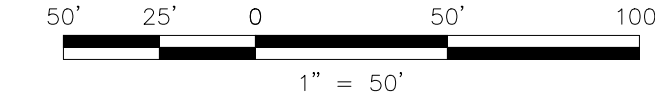
1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 22

16"/8" VINELAND PROJECT
DANTE AVE.
CUMBERLAND COUNTY NJ

CITY OF VINELAND	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	24 OF 33	DWG. NO.

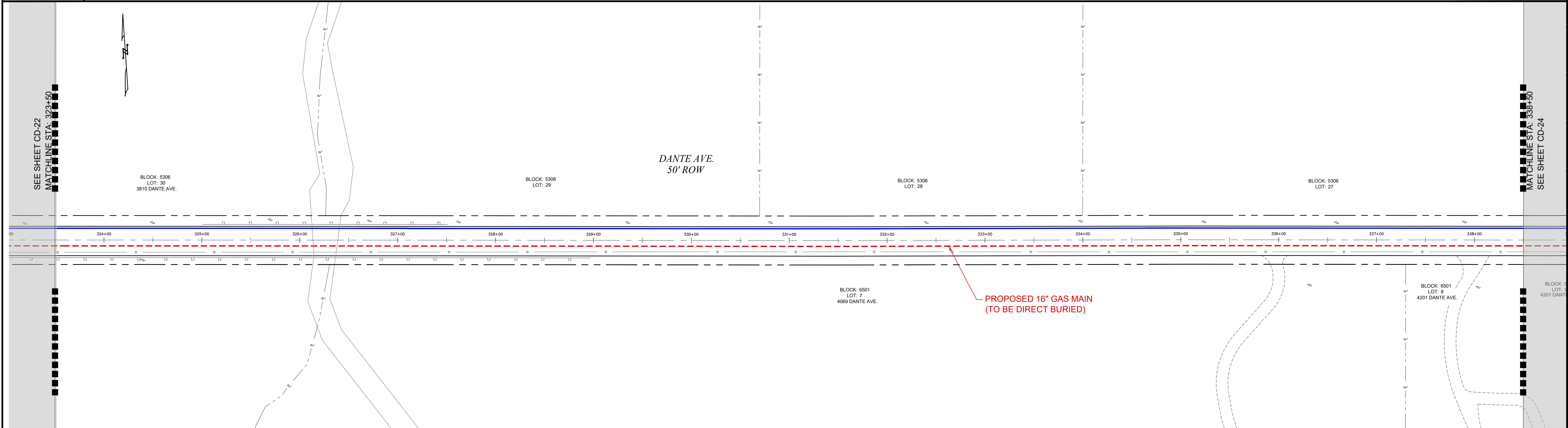
CD-22



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DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	DANTE AVE. PUBLIC ROW		
STATION	323+50		338+50
FOOTAGE	1,500'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **PERKINS+WORTH** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

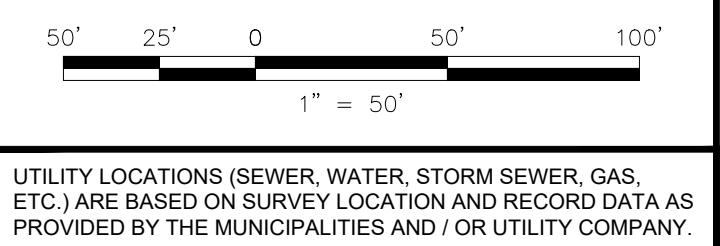


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 23

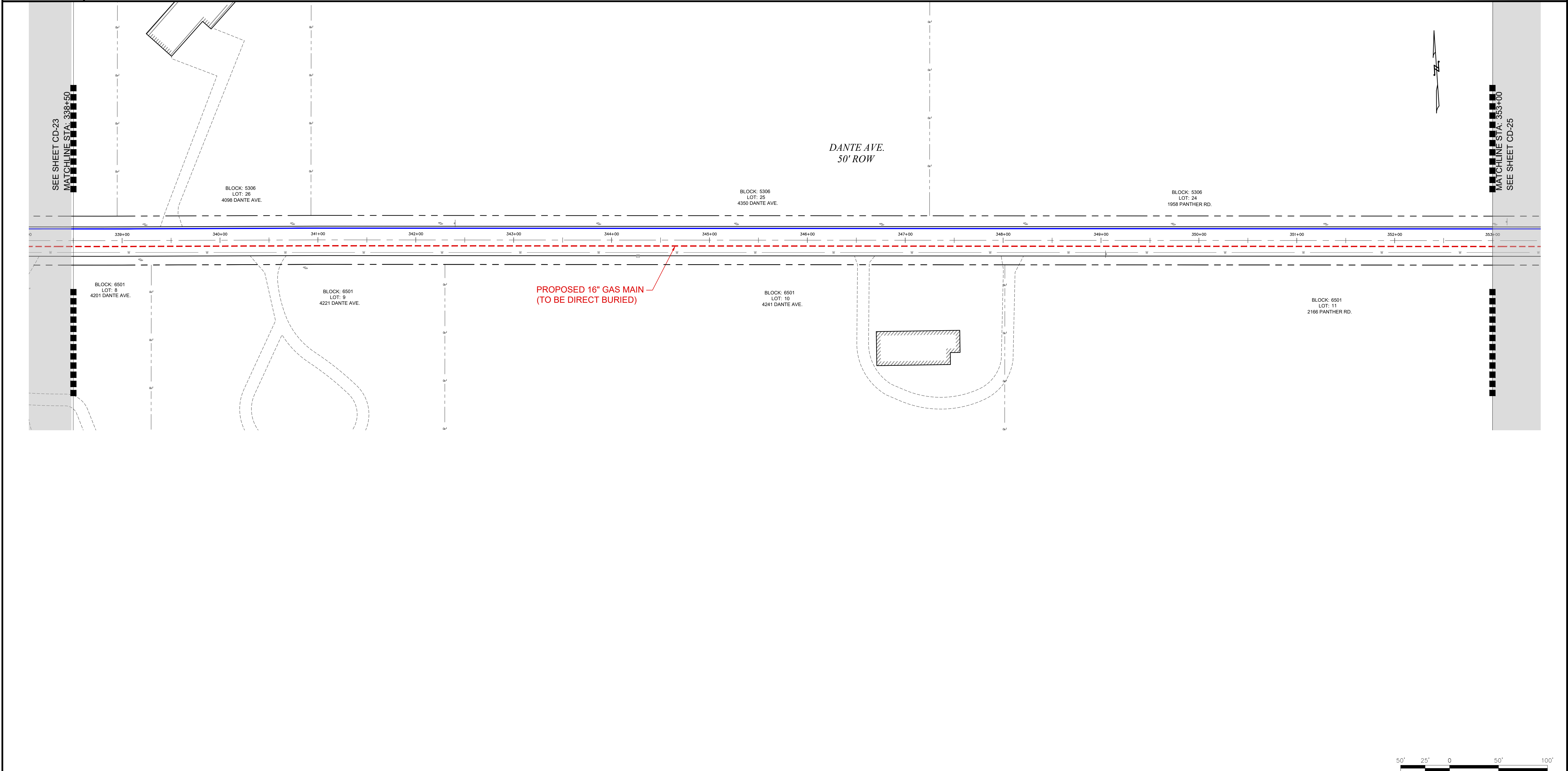
16"/8" VINELAND PROJECT
DANTE AVE.
CUMBERLAND COUNTY

CITY OF VINELAND	SC	DATE	05/03/19	PLATE MAP	NJ
DRAWN BY	DPK	SCALE	1"=50'	MAP	
CHECKED BY	FZ	SHEET	25	OF	33
APPROVED BY					CD-23



DRAWING LOCATION	P:\Projects\Active\Pipeline\SG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	DANTE AVE. PUBLIC ROW		
STATION	338+50		353+00
FOOTAGE	1,450'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **WILKINS-MAW** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

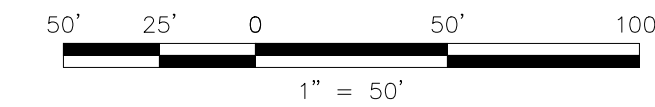


1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 16" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 24

16"/8" VINELAND PROJECT
DANTE AVE.
CUMBERLAND COUNTY

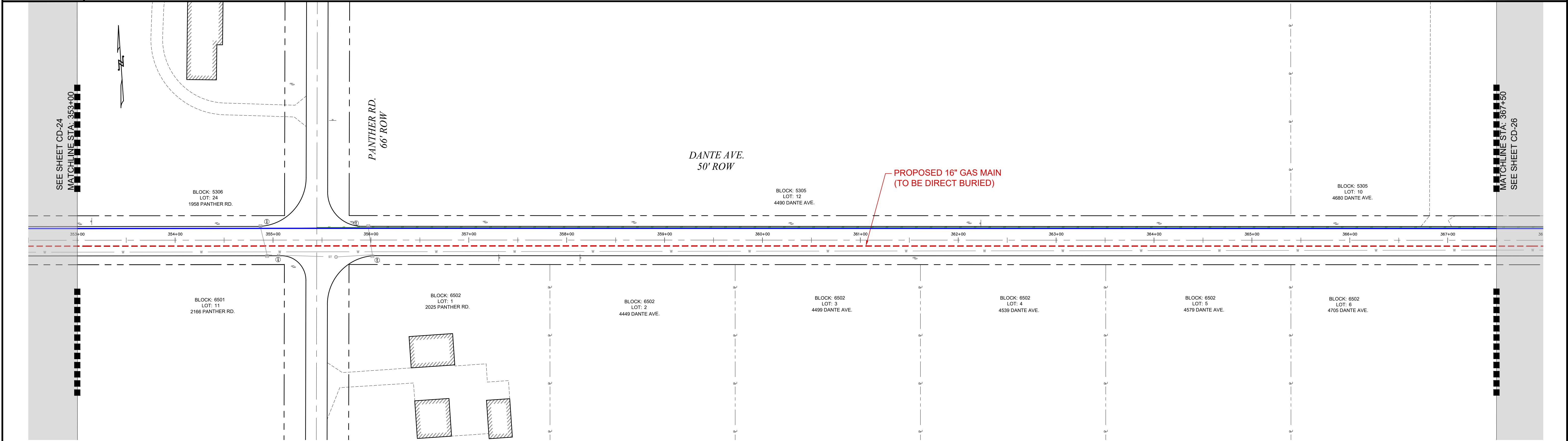
CITY OF VINELAND	SC	DATE	05/03/19	PLATE MAP	NJ
DRAWN BY	SC	SCALE	1"=50'	MAP	
CHECKED BY	DPK	SHEET	26	OF	33
APPROVED BY	FZ				CD-24



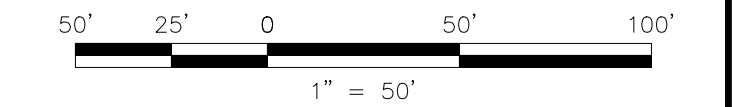
UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	DANTE AVE. PUBLIC ROW		
STATION	353+00		367+50
FOOTAGE	1,450'		
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE		



PRELIMINARY
NOT FOR CONSTRUCTION

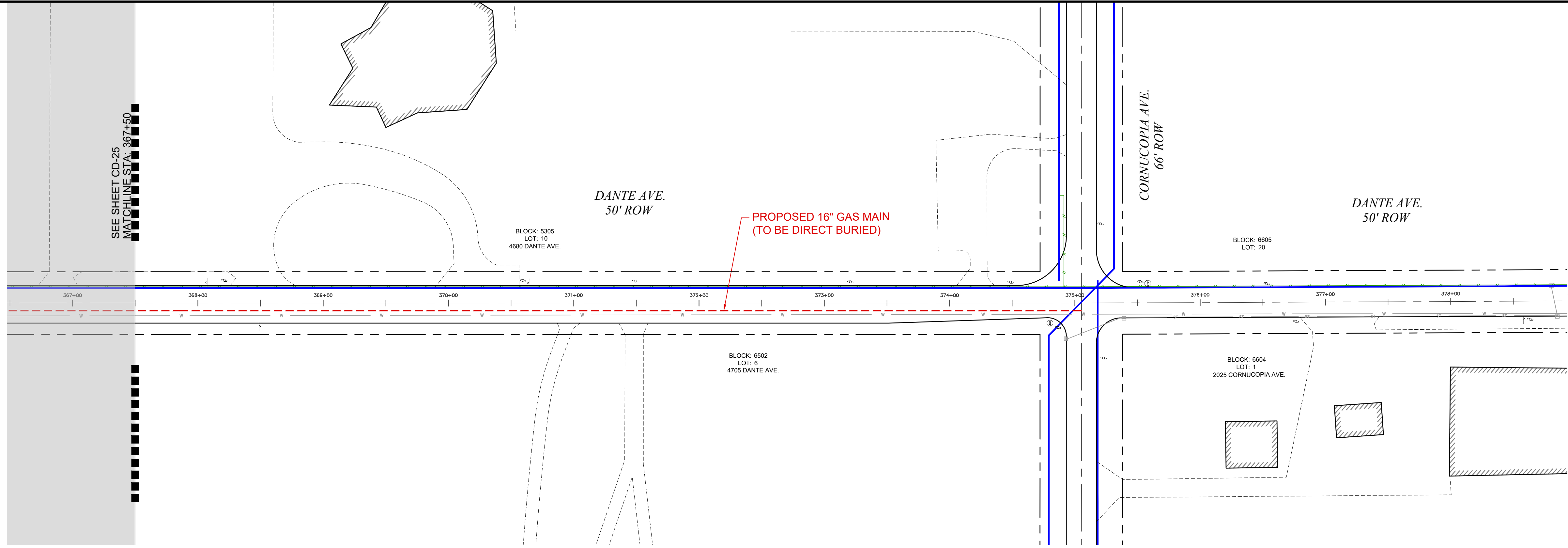


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DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project IFR.dwg
LAST DATE SAVED	5/29/2019
LAST SAVE BY	dkrupa

COUNTY	CUMBERLAND COUNTY	
MUNICIPALITY	CITY OF VINELAND	
OWNER & PARCEL	DANTE AVE. PUBLIC ROW	
STATION	367+50	375+66
FOOTAGE	720'	
MATERIAL	16" O.D. 0.375" WALL, X65 WRAPPED STEEL PIPE	



PRELIMINARY
NOT FOR CONSTRUCTION

A graphic scale bar for the map. It is a horizontal bar divided into four equal segments, each representing 25 feet. The segments are colored black, white, black, and white from left to right. Above the bar, the distances 50', 25', 0, 50', and 100' are marked at the segment boundaries. Below the bar, the scale is given as 1" = 50'.

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ONE CALL

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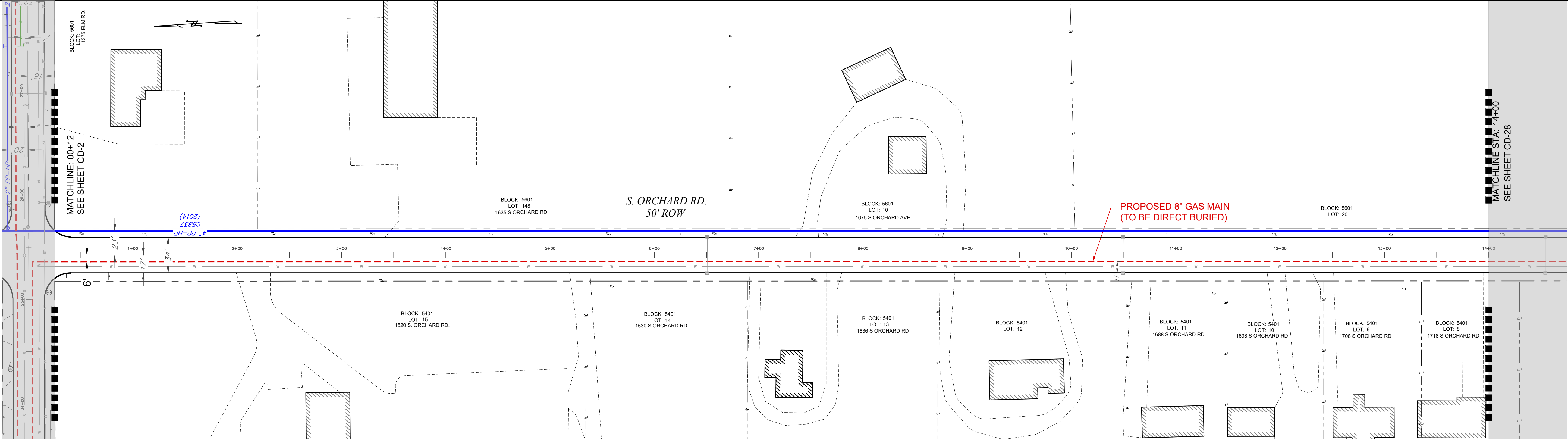
No.	Revision	Approve	Date
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PETER WILDERS, PE
NJ LICENSE #24GE04327300

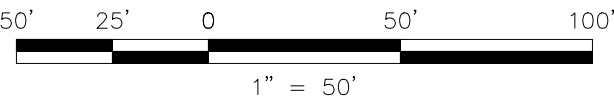
AMI
TECHNICAL SOLUTIONS
A **HEWLETT-PACKARD** Group Company
ALLEY SQUARE THREE, STE. 20
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

 SOUTH JERSEY GAS			
1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037 TELEPHONE: 609-271-1800 FAX: 609-271-1802			
PROPOSED 16" STEEL GAS MAIN EXTENSION CUMBERLAND DIVISION ALIGNMENT 26			
16"/8" VINELAND PROJECT DANTE AVE.			
CITY OF VINELAND		CUMBERLAND COUNTY	
DRAWN BY	SC	DATE	05/03/19
CHECKED BY	DPK	SCALE	1"=50'
APPROVED BY	FZ	SHEET	28 OF 33
		DWG. NO.	CD-26

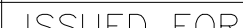
COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	S. ORCHARD RD. PUBLIC ROW		
STATION	0+12		14+00
FOOTAGE	1,388'		
MATERIAL	8.625" O.D. 0.277" WALL, X52 WRAPPED STEEL PIPE		



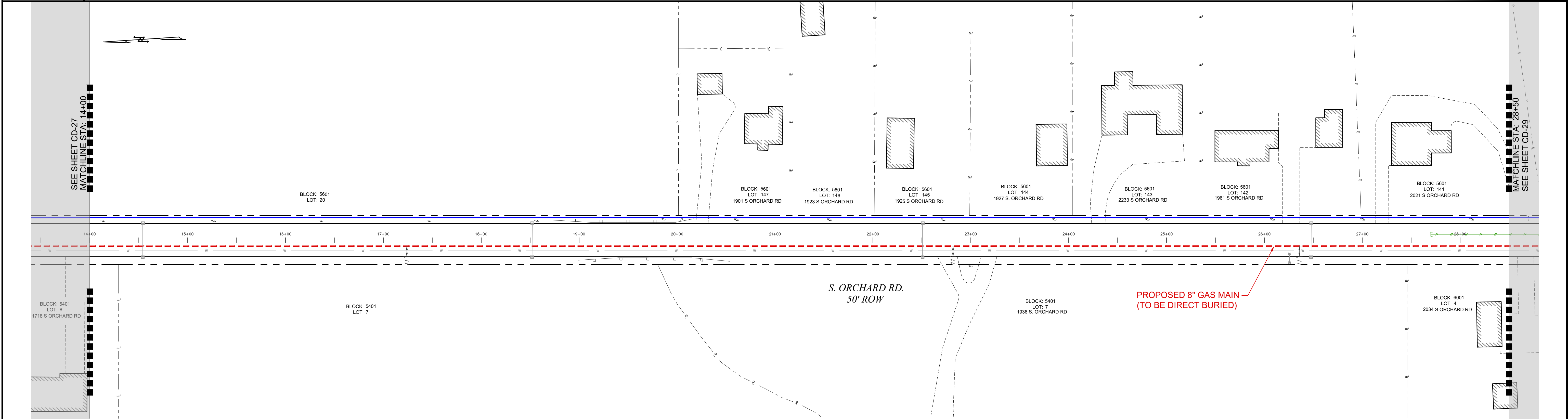
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COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	S. ORCHARD RD. PUBLIC ROW		
STATION	14+00		28+50
FOOTAGE	1,450'		
MATERIAL	8.625" O.D. 0.277" WALL, X52 WRAPPED STEEL PIPE		



PRELIMINARY
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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **PERKINS+WORTH** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
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APPROVED BY	FZ	SHEET	30	OF 33



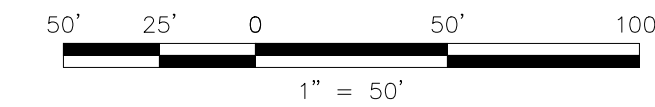
1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561 - 9000 FAX: (609) 704 - 1802

PROPOSED 8" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 28

16"8" VINELAND PROJECT
S. ORCHARD RD.
CUMBERLAND COUNTY

CITY OF VINELAND NJ

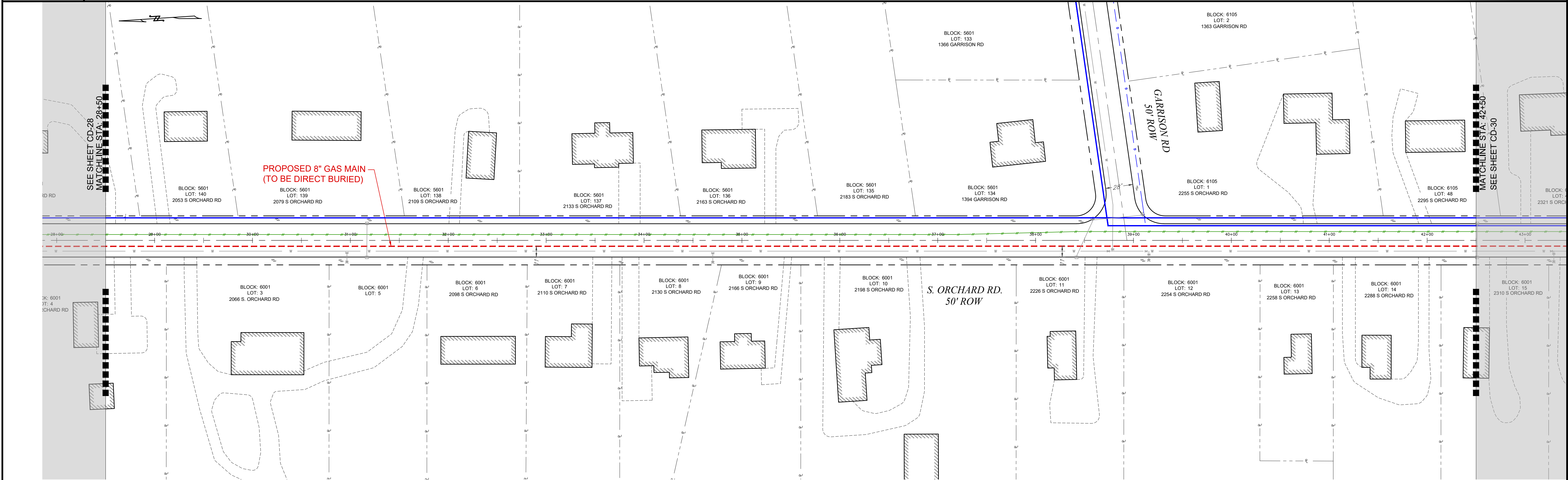
DWG. NO. CD-28



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DRAWING LOCATION	P:\Projects\Active\Pipeline\SG (South Jersey Gas)\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project.dwg
LAST DATE SAVED	9/18/2020
LAST SAVE BY	alisher

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	S. ORCHARD RD. PUBLIC ROW		
STATION	28+50		42+50
FOOTAGE	1,400'		
MATERIAL	8.625" O.D. 0.277" WALL, X52 WRAPPED STEEL PIPE		



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PETER WILDERS, PE
NJ LICENSE #24GE04327300



TECHNICAL SOLUTIONS

A **HEWLETT-PACKARD** Group Company

VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	31	OF 33



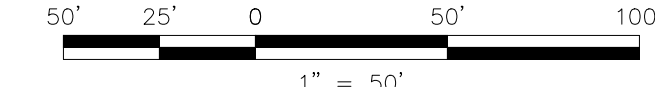
1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 8" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 29

16"8" VINELAND PROJECT
S. ORCHARD RD.
CUMBERLAND COUNTY

CITY OF VINELAND NJ

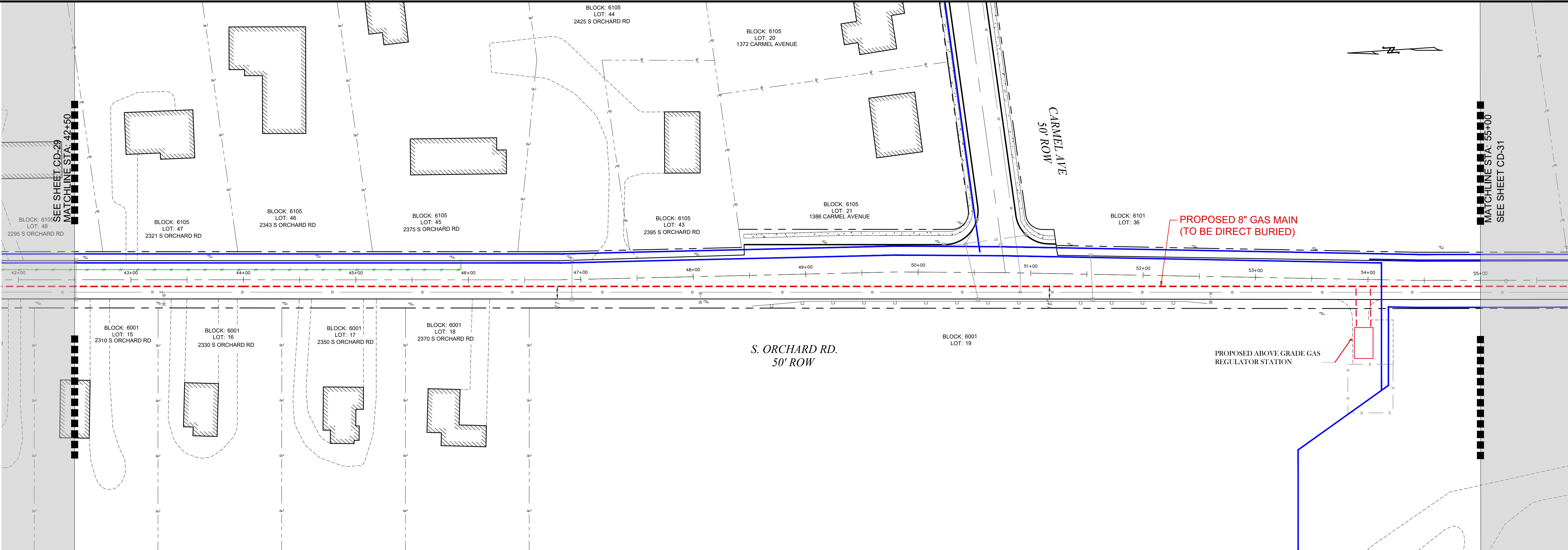
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DRAWING LOCATION	P:\Projects\Active\Pipeline\SG (South Jersey Gas)\Elmer Road Reliability Project\3.
LAST DATE SAVED	9/18/2020
LAST SAVE BY	alisher

COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	S. ORCHARD RD. PUBLIC ROW		
STATION	42+50		55+00
FOOTAGE	1,250'		
MATERIAL	8.625" O.D. 0.277" WALL, X52 WRAPPED STEEL PIPE		



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PETER WILDERS, PE
NJ LICENSE #24GE04327300

TECHNICAL SOLUTIONS
A HENKELS+MEYER Group Company
VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

DRAWN BY	SC	DATE	05/03/19	PLATE MAP
CHECKED BY	DPK	SCALE	1"=50'	MAP
APPROVED BY	FZ	SHEET	32	OF 33

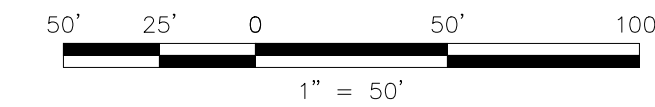
1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

PROPOSED 8" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 30

16"8" VINELAND PROJECT
S. ORCHARD RD.
CUMBERLAND COUNTY

CITY OF VINELAND NJ

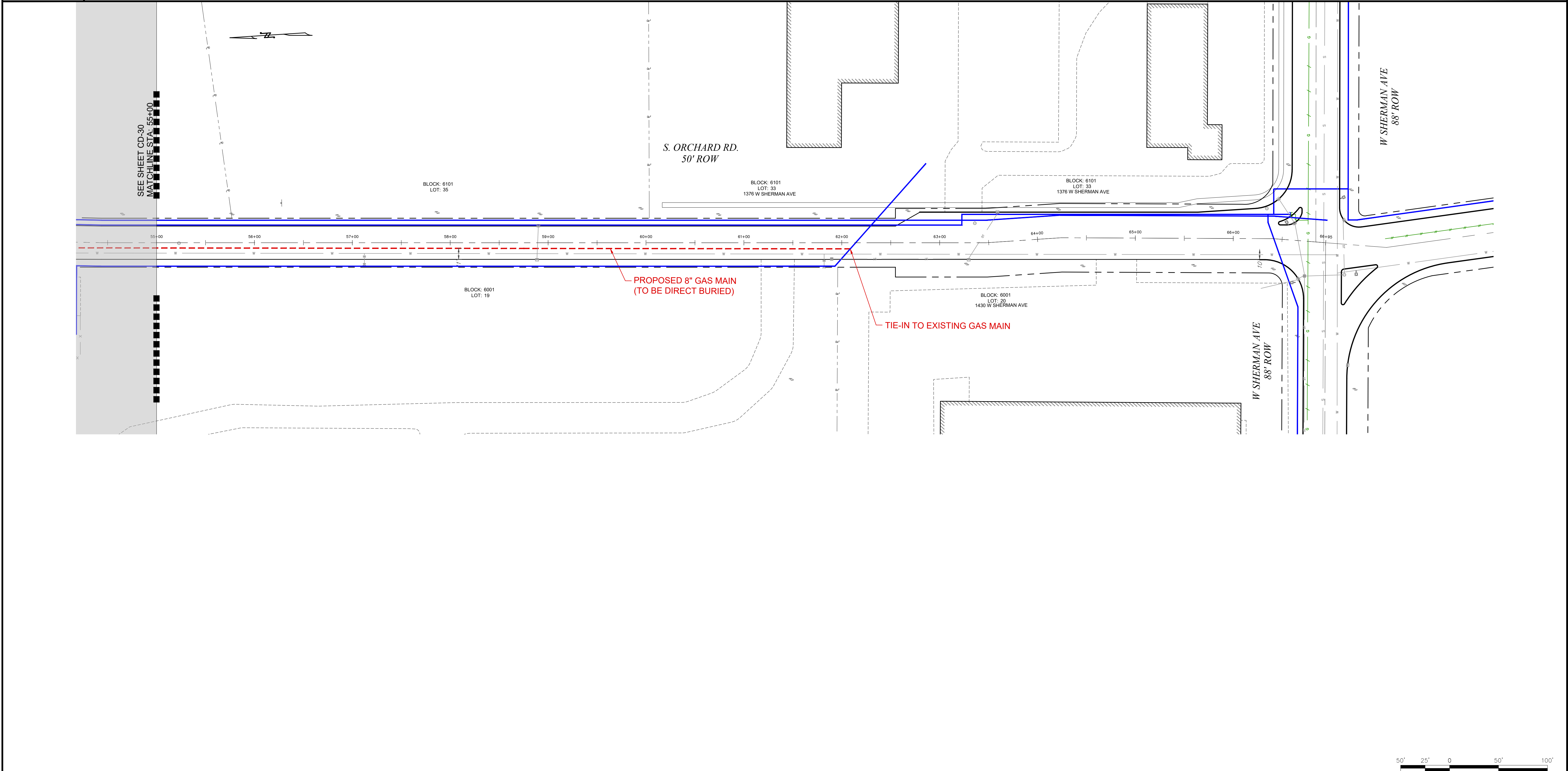
DWG. NO. CD-30



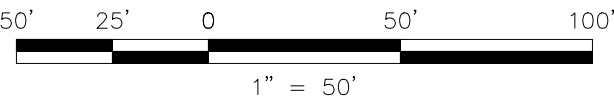
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COUNTY	CUMBERLAND COUNTY		
MUNICIPALITY	CITY OF VINELAND		
OWNER & PARCEL	S. ORCHARD RD. PUBLIC ROW		
STATION	55+00	62+09	
FOOTAGE	709'		
MATERIAL	8.625" O.D. 0.277" WALL, X52 WRAPPED STEEL PIPE		



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UTILITY LOCATIONS (SEWER, WATER, STORM SEWER, GAS, ETC.) ARE BASED ON SURVEY LOCATION AND RECORD DATA AS PROVIDED BY THE MUNICIPALITIES AND / OR UTILITY COMPANY.

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BEFORE PERFORMING ANY WORK, THE CONTRACTOR SHALL CONTACT THE "DIG NUMBER" (PHONE 800-272-1000) FOR A MARK-OUT OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE "DIG NUMBER" AND TO ASCERTAIN THE LOCATION OF ALL UNDERGROUND CONSTRUCTION IN THE AREA OF THE PROJECT.

THE CONTRACTOR SHALL CONDUCT TEST PITS TO VERIFY THE LOCATIONS OF UNDERGROUND UTILITIES WHERE POTENTIAL CONFLICTS MAY OCCUR OR WHERE DISCREPANCIES ARE PRESENT BETWEEN THE PLAN AND UNDERGROUND UTILITY MARK-OUTS.

THESE TEST PITS SHALL BE IN ADDITION TO THE SPECIFIED TEST PIT LOCATIONS AS DENOTED ON THE PLANS AND SHALL NOT BE LIMITED TO EXCAVATION SOLELY BUT INCLUDE ANY ADDITIONAL MEANS TO DETERMINING THE LOCATION OF UTILITIES IN QUESTION.

ONE CALL

CALL BEFORE YOU DIG
1-800-272-1000

TO LOCATE UNDERGROUND UTILITIES
IF YOU'RE GOING TO DIG, BLAST OR DRILL
THREE (3) WORKING DAYS NOTICE

REMEMBER
IT'S THE LAW!
Dig Safely.

No.	Revision	Approve	Date
1	ISSUED FOR REVIEW		06/07/19
2	PRELIMINARY BASEMAPS FOR REVIEW		09/30/19
3	PRELIMINARY BASEMAPS FOR FILING		12/09/19
4			
5			
6			
7			
8			
9			

PETER WILDERS, PE
NJ LICENSE #24GE04327300

AWI
TECHNICAL SOLUTIONS
A **WHEELS+HOW** Group Company
VALLEY SQUARE THREE, STE. 200
512 TOWNSHIP LINE RD.
BLUE BELL, PA 1
P: 484-344-2161

SOUTH JERSEY GAS
1 SOUTH JERSEY PLAZA, FOLSOM, N.J. 08037
TELEPHONE: (609) 561-9000 FAX: (609) 704-1802

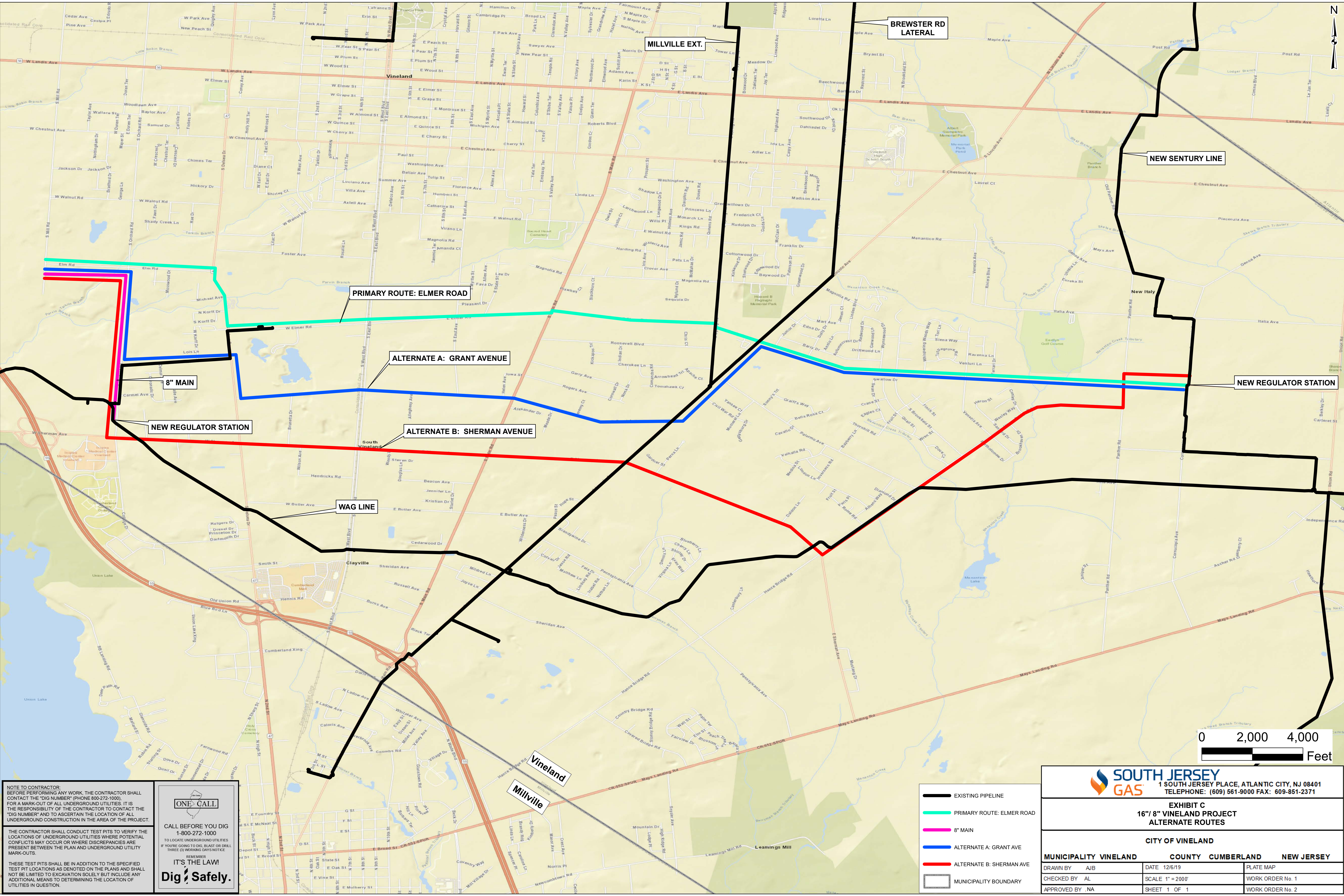
PROPOSED 8" STEEL GAS MAIN EXTENSION
CUMBERLAND DIVISION
ALIGNMENT 31

16"8" VINELAND PROJECT
S. ORCHARD RD.
CUMBERLAND COUNTY

CITY OF VINELAND	SC	DATE	05/03/19	PLATE MAP	NJ
CHECKED BY	DPK	SCALE	1"=50'	MAP	
APPROVED BY	FZ	SHEET	33 OF 33	DWG. NO.	CD-31

DRAWING LOCATION	P:\Projects\Active\Pipeline\SJG (South Jersey Gas)\Elmer Road Reliability Project\3. Execution\CAD\Elmer Road Reliability Project.dwg
LAST DATE SAVED	9/18/2020
LAST SAVE BY	alisher

EXHIBIT C



NOTE TO CONTRACTOR:
BEFORE PERFORMING ANY WORK, THE CONTRACTOR SHALL CONTACT THE "DIG NUMBER" (PHONE 800-272-1000) FOR A MARK-OUT OF ALL UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE "DIG NUMBER" AND TO ASCERTAIN THE LOCATION OF ALL UNDERGROUND CONSTRUCTION IN THE AREA OF THE PROJECT.

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CALL BEFORE YOU DIG
1-800-272-1000

TO LOCATE UNDERGROUND UTILITIES
IF YOU'RE GOING TO DIG, BLAST OR DRILL
THREE (3) WORKING DAYS NOTICE

REMEMBER
IT'S THE LAW!
Dig Safely.

- EXISTING PIPELINE
- PRIMARY ROUTE: ELMER ROAD
- 8" MAIN
- ALTERNATE A: GRANT AVE
- ALTERNATE B: SHERMAN AVE
- MUNICIPALITY BOUNDARY

1 SOUTH JERSEY PLACE, ATLANTIC CITY, NJ 08401
TELEPHONE: (609) 561-9000 FAX: 609-851-2371

EXHIBIT C
16" / 8" VINELAND PROJECT
ALTERNATE ROUTES

CITY OF VINELAND

MUNICIPALITY VINELAND	COUNTY CUMBERLAND	NEW JERSEY
DRAWN BY AJB	DATE 12/6/19	PLATE MAP
CHECKED BY AL	SCALE 1" = 200'	WORK ORDER No. 1
APPROVED BY NA	SHEET 1 OF 1	WORK ORDER No. 2

EXHIBIT D

Project Name: Vineland Reliability Project (Elmer Rd)

Pipe Size: 16"

STRUCTURES WITHIN 0-25.0 FEET RADIUS OF THE PIPELINE

[illegible]

Pipe Size: 16"

[illegible]

Project Name: Vineland Reliability Project (Elmer Rd)
Pipe Size: 16"

STRUCTURES WITHIN 50.01-75.0 FEET RADIUS OF THE PIPELINE

Block	Lot	Structure Street Address	Municipality	Zip Code	Owner Name	Owner Address (if different)	Distance from Pipeline (ft.)	Residential (x)	Commercial (x)	Other (x)
5902	5	1149 E ELMER RD	VINELAND CITY	08361	SEASE, DOROTHY L		51' R	X		
6202	17	947 E ELMER RD	VINELAND CITY	08360	MATOS, JESUS & CARMEN		52' R	X		
6202	18	959 E ELMER RD	VINELAND CITY	08360	DICKERSON, JENNIFER		52' R	X		
5902	4	1137 E ELMER RD	VINELAND CITY	08361	HOUSING AUTHORITY-CITY OF VINELAND	191 W CHESTNUT AVE, VINELAND NJ 08360	52' R	X		
6201	11	401 E ELMER RD	VINELAND CITY	08360	JONES, BRIAN C		54' R	X		
5902	7	1173 E ELMER RD	VINELAND CITY	08361	ELLIOTT, JAMES W & DENISE F	1310 CHICKADEE LN, MILLVILLE NJ 08332	54' R	X		
5502	61.1	1126 ELM RD	VINELAND CITY	08360	STEUER, LINDSAY A		55' L	X		
5502	55	990 ELM RD	VINELAND CITY	08360	MOLE, ROBERT L JR & ANNETTE B	1008 ELM RD, VINELAND NJ 08360	56' L	X		
5804	48	1676 S MAIN RD	VINELAND CITY	08360	TOLCSER, RUDOLPH M & CAROL		56' L	X		
5502	54	1480 S DELSEA DR	VINELAND CITY	08360	MOLE, ROBERT L JR & ANNETTE B	1008 ELM RD, VINELAND NJ 08360	58' L		X	
5701	45	726 W ELMER RD	VINELAND CITY	08360	BOCACHICA, JAVIER & ENID		60' L	X		
5603	4	1600 S DELSEA DR	VINELAND CITY	08360	DEAN, TERRY & CHOON H	3679 HALSEY CT, VINELAND NJ 08361	60' R		X	
6102	16	211 W ELMER RD	VINELAND CITY	08360	GARRISON ASSOCIATES LLC		60' R		X	
5701	54	1607 S DELSEA DR	VINELAND CITY	08360	LA TORRE CORPORATION		61' L		X	
5502	68	1342 ELM RD	VINELAND CITY	08360	DI BIASO, DENISE		62' L	X		
5502	67	1316 ELM RD	VINELAND CITY	08360	YUHAS, NICHOLAS E		63' L	X		
5502	58	1046 ELM RD	VINELAND CITY	08360	CALIXTO, SILVERIO & MARIA		64' L	X		
5801	47	488 E ELMER RD	VINELAND CITY	08360	GILROY, LAURA A		64' L	X		
5801	49	448 E ELMER RD	VINELAND CITY	08360	HENDERSON, WILLIAM J JR & KIMIE O		64' L	X		
5701	43	690 W ELMER RD	VINELAND CITY	08360	DESPAIN, LEE		65' L	X		
5701	46	1925 S DELSEA DR	VINELAND CITY	08360	PLADECK, KELLY	1903 S DELSEA DR, VINELAND NJ 08360	65' L		X	
5901	74	1692 S SPRING RD	VINELAND CITY	08361	DOYLE, LINDSEY		66' L	X		
5601	66	1888 S DELSEA DR	VINELAND CITY	08360	MAINIERO, NICHOLAS R & CATHERINE E		66' R		X	
5502	56	1008 ELM RD	VINELAND CITY	08360	MOLE, ROBERT L JR & ANNETTE B		67' L	X		
5701	42	668 W ELMER RD	VINELAND CITY	08360	SUPPI, TIMOTHY W & MARYSOL		67' L	X		
5901	79	1886 E ELMER RD	VINELAND CITY	08361	BERGAMO, ROSALIE		67' L	X		
5901	84	1766 E ELMER RD	VINELAND CITY	08361	BERGAMO, MARY JANE		67' L	X		
6202	13	899 E ELMER RD	VINELAND CITY	08360	SWANSON, WAYNE D	629 E WOOD ST STE 100, VINELAND NJ 08360	67' R	X		
5801	48	462 E ELMER RD	VINELAND CITY	08360	SILVER RUN REALTY LLC	1200 S WEST BLVD #1E, VINELAND NJ 08360	68' L	X		

[illegible]

Project Name: Vineland Reliability Project (Elmer Rd)**Pipe Size: 16"****STRUCTURES WITHIN 75.01-100.0 FEET RADIUS OF THE PIPELINE**

Block	Lot	Structure Street Address	Municipality	Zip Code	Owner Name	Owner Address (if different)	Distance from Pipeline (ft.)	Residential (x)	Commercial (x)	Other (x)
5223	27	2180 DANTE AVE	VINELAND CITY	08361	STEBBINS, GREGORY		100' L	X		
5210	27	2832 DANTE AVE	VINELAND CITY	08361	LYNCH, JANET M		100' L	X		
5601	31	1121 ELM RD	VINELAND CITY	08360	COOK, CAROLYN S		100' R	X		
6102	10	493 W ELMER RD	VINELAND CITY	08360	KAGANZEV, TIMOTHY		76' R	X		
6401	1	1781 S SPRING RD	VINELAND CITY	08361	SPRING GARDEN SENIOR HOUSING	110 COHANSEY ST, BRIDGETON NJ 08302	76' R		X	
5701	58	1537 S DELSEA DR	VINELAND CITY	08360	MACCANI, ALBERT R		78' L		X	
5222	13	2508 DANTE AVE	VINELAND CITY	08361	NILES, MELISSA		78' L	X		
5210	28	2758 DANTE AVE	VINELAND CITY	08361	DEOLA, CAROL		78' L	X		
5208	1.2	3212 DANTE AVE	VINELAND CITY	08361	HALL, BOBBY & ARLETHA		78' L	X		
5309	10	2059 VENEZIA AVE	VINELAND CITY	08361	MALATESTA, JOHN & KAREN		78' L	X		
5603	1	975 ELM RD	VINELAND CITY	08360	AL'S SUPERSUDS CAR WASH, LLC	1524 S DELSEA DR, VINELAND NJ 08360	78' R		X	
5603	3	1554 S DELSEA DR	VINELAND CITY	08360	BME PROPERTIES LLC	1524 S DELSEA DR, VINELAND NJ 08360	78' R		X	
6102	5	611 W ELMER RD	VINELAND CITY	08360	LOVISON, JOHN III	1460 LARCHWOOD LN, VINELAND NJ 08361	78' R	X		
5901	90	1482 E ELMER RD	VINELAND CITY	08361	MEANDRO, MARY LYNN	1797 S MAIN RD, VINELAND NJ 08361	80' L	X		
5221	10	2330 DANTE AVE	VINELAND CITY	08361	CARDINAL ASSO % RITE AID CORP	PO BOX 3165, HARRISBURG PA 17105	80' L		X	
5222	12	2526 DANTE AVE	VINELAND CITY	08361	WOOD, CAROL A		80' L	X		
5222	17	2430 DANTE AVE	VINELAND CITY	08361	COLON,CASSANDRA R & ZAYAS, ANTHONY		80' L	X		
5222	18	2414 DANTE AVE	VINELAND CITY	08361	RIVERA, LINDA & RICHARD M MYERS		80' L	X		
5222	19	2400 DANTE AVE	VINELAND CITY	08361	RIVERA, ROBERT SR		80' L	X		
5601	33	1029 ELM RD	VINELAND CITY	08360	MULLER, EDWARD W & SUSAN R		80' R	X		
5902	9	1207 E ELMER RD	VINELAND CITY	08361	DEAN, TERRY & CHOON H	3679 HALSEY CT, VINELAND NJ 08361	80' R	X		
5902	10	1227 E ELMER RD	VINELAND CITY	08361	DEAN, TERRY & CHOON H	3679 HALSEY CT, VINELAND NJ 08361	80' R	X		
5902	13	1307 E ELMER RD	VINELAND CITY	08361	WILLIAMS, JOHN W		80' R	X		
5502	57	1028 ELM RD	VINELAND CITY	08360	DAVIS, LYNDIA M		81' L	X		
5502	60	1100 ELM RD	VINELAND CITY	08360	ALVAREZ, JUAN A & ISABELL	406 BUNKERHILL DR, NASHVILLE TN 37217	81' L	X		
5804	59	684 E ELMER RD	VINELAND CITY	08360	SHARP, AUDREY M		81' L	X		
5901	108	1116 E ELMER RD	VINELAND CITY	08361	MAJEWSKI, TADEUSZ & BEATA MAJEWSKA		81' L	X		
5210	36	2602 DANTE AVE	VINELAND CITY	08361	GRIGGS, KAREN C		81' L	X		

6102	6	595 W ELMER RD	VINELAND CITY	08360	CHALOW, TERENCE T	2691 UNION RD, VINELAND NJ 08361	81' R	X		
5502	63	1206 ELM RD	VINELAND CITY	08360	FERNANDEZ-PAULA, JOSE D		82' L	X		
5901	85	1746 E ELMER RD	VINELAND CITY	08361	DINUNZIO, NANCY V		82' L	X		
5901	92	1430 E ELMER RD	VINELAND CITY	08361	LEISTNER, ROBERT H & JACQUELINE M		82' L	X		
5901	106	1148 E ELMER RD	VINELAND CITY	08361	MANERA, RICHARD & JOANN		82' L	X		
5901	107	1132 E ELMER RD	VINELAND CITY	08361	MUNDLE, DONNA VANESSA		82' L	X		
5223	31.3	2058 DANTE AVE	VINELAND CITY	08361	DE NOVELLIS, ALBERT JR	2580 BEECHWOOD DR, VINELAND NJ 08361	82' L	X		
5222	16	2448 DANTE AVE	VINELAND CITY	08361	CONTE, CAMILLO	1891 WHISPERING WOODS WAY, VINELAND NJ 08361	82' L	X		
5210	30	2720 DANTE AVE	VINELAND CITY	08361	CAUDILL, ALLEN		82' L	X		
5210	32	2680 DANTE AVE	VINELAND CITY	08361	DALESSANDRO, TINA		82' L	X		
5210	33	2660 DANTE AVE	VINELAND CITY	08361	FORSTER, ALEXANDER L		82' L	X		
5209	13	3040 DANTE AVE	VINELAND CITY	08361	BRENTARI, GIRARD F & MARY E CUGINI		82' L	X		
6402	5	2675 DANTE AVE	VINELAND CITY	08361	SHOCKLEY, DOROTHY		82' R	X		
5222	14	2488 DANTE AVE	VINELAND CITY	08361	GUZMAN, JOSE & PATRICIA MATIAS CRUZ		83' L	X		
5210	34	2640 DANTE AVE	VINELAND CITY	08361	LODOVICO, GEORGE A & JACQUELIN L		83' L	X		
5210	35	2620 DANTE AVE	VINELAND CITY	08361	COLE, EDWARD D & GLORIA AVILES- H/W		83' L	X		
6202	9	709 E ELMER RD	VINELAND CITY	08360	ATLANTIC CAPE BUILDERS LLC	1413 STAGE COACH RD, OCEAN VIEW NJ 08230	83' R	X		
5902	20	1515 E ELMER RD	VINELAND CITY	08361	BELL, WENDY		83' R	X		
5502	62	1176 ELM RD	VINELAND CITY	08360	DAVIS, ELLA FAYE		84' L	X		
5502	66	1288 ELM RD	VINELAND CITY	08360	TUERS, GISELA U		84' L	X		
5701	48	1881 S DELSEA DR	VINELAND CITY	08360	RPJ PROPERTIES LLC	3169 S MAIN RD, VINELAND NJ 08360	84' L		X	
5210	29	2738 DANTE AVE	VINELAND CITY	08361	LATTIMAR, JON & MOLLY LATTIMAR		84' L	X		
6102	8	563 W ELMER RD	VINELAND CITY	08360	GANCI, MICHAEL F		84' R	X		
6202	4	589 E ELMER RD	VINELAND CITY	08360	BURKERT EST, LAMARR D	674 CENTRAL AVE, FRANKLINVILLE NJ 08322	84' R	X		
6202	5	625 E ELMER RD	VINELAND CITY	08360	ROSA, BERNADETTE A		84' R	X		
6202	15	923 E ELMER RD	VINELAND CITY	08360	CAPABIANCO, FRANK W & ELEANORE A		84' R	X		
6202	20	1710 S MAIN RD	VINELAND CITY	08360	DECRESCENZO, ROBERT A & DEBORAH	2351 BROOKFIELD ST, VINELAND NJ 08361	84' R	X		
6501	10	4241 DANTE AVE	VINELAND CITY	08361	CHELI, RICHARD J & ANDREA L	5212 PIACENZIA AVE, VINELAND NJ 08361	84' R	X		
5601	2	1361 ELM RD	VINELAND CITY	08360	DALESSANDRO, RYAN		85' R	X		
5603	2	1524 S DELSEA DR	VINELAND CITY	08360	AL'S SUPERSUDS CAR WASH, LLC		85' R		X	
6202	14	901 E ELMER RD	VINELAND CITY	08360	BARILE, LUKE & HEATHER		85' R	X		
5902	31	1811 E ELMER RD	VINELAND CITY	08361	HEALY, MILDRED		85' R	X		
5804	55	824 E ELMER RD	VINELAND CITY	08360	DEBELLO, DOUGLAS	160 E BUTLER AVE, VINELAND NJ 08360	86' L	X		
5901	105	1164 E ELMER RD	VINELAND CITY	08361	US BANK TRUST % RESICAP	3630 PEACHTREE RD NE, ATLANTA GA 30326	86' L	X		
5210	31	2700 DANTE AVE	VINELAND CITY	08361	RODRIGUEZ, ONEIDA & H MORALES		86' L	X		

5208	4	3104 DANTE AVE	VINELAND CITY	08361	STILES, JOAN M		86' L	X		
5601	45	1740 S DELSEA DR	VINELAND CITY	08360	COURTER, NINA K	PO BOX 2189, VINELAND NJ 08362	86' R		X	
6201	5	139 E ELMER RD	VINELAND CITY	08360	BRADWAY, JILL L		86' R	X		
6202	6	655 E ELMER RD	VINELAND CITY	08360	BARTLETT, LAWRENCE R & DIANE S		86' R	X		
5902	15	1381 E ELMER RD	VINELAND CITY	08361	BARBER, GARY L		86' R	X		
5902	19	1489 E ELMER RD	VINELAND CITY	08361	ROBICHAUD, RICHARD & LISA		86' R	X		
5902	32	1835 E ELMER RD	VINELAND CITY	08361	MAINIERO, STACY & HOLBROOK EST,MARY	2 S VALLEY SQUARE, VINELAND NJ 08361	86' R	X		
5902	33	1875 E ELMER RD	VINELAND CITY	08361	DAUITO, RACHEL C	1843 SEQUOIA DR, VINELAND NJ 08361	86' R	X		
6402	12	2987 DANTE AVE	VINELAND CITY	08361	SEABO, CHARLES A		86' R	X		
5223	29	2142 DANTE AVE	VINELAND CITY	08361	DANICHKIN, VICTOR & YELENA		87' L	X		
5601	1	1375 ELM RD	VINELAND CITY	08360	SICONOLFI, PATRICK& CARRIE FIREOVED		87' R	X		
5601	5	1520 WESTWOOD DR	VINELAND CITY	08360	FAVRETTO, RONALD JOHN & JEANNE L		87' R	X		
5902	14	1335 E ELMER RD	VINELAND CITY	08361	HAUGHTON, ERIC		87' R	X		
5901	88	1554 E ELMER RD	VINELAND CITY	08361	WARE, SPENCER		88 L	X		
5808	11	658 E ELMER RD	VINELAND CITY	08360	WHITE, VIVIAN		88' L	X		
6201	7	201 E ELMER RD	VINELAND CITY	08360	MAYO, STEPHEN		88' R	X		
6202	12	861 E ELMER RD	VINELAND CITY	08360	PLATT JOHN M		88' R	X		
5902	17	1429 E ELMER RD	VINELAND CITY	08361	TRIMNELL, CHARLES F JR & CAROL		88' R	X		
5701	50	1829 S DELSEA DR	VINELAND CITY	08360	COURTER-KORFF LLC	1824 W KORFF DR, VINELAND NJ 08360	89' L		X	
5804	50	944 E ELMER RD	VINELAND CITY	08360	HERNANDEZ, ANGEL JR & REINA	727 E PLUM ST, VINELAND NJ 08360	89' L	X		
6102	3	637 W ELMER RD	VINELAND CITY	08360	OLSEN, DAVID E	236 W GRANT AVE, VINELAND NJ 08360	89' R	X		
6405	5	3195 DANTE AVE	VINELAND CITY	08361	KANOS, KOSTAS & KYRIAKI		89' R	X		
6405	11	3409 DANTE AVE	VINELAND CITY	08361	PEARCY, JAMES W JR		89' R	X		
5502	61	1150 ELM RD	VINELAND CITY	08360	MAZZONE, GARY A SR & DEBI		90' L	X		
5808	12	626 E ELMER RD	VINELAND CITY	08360	MC MONAGLE-SCAVELLI, THERESA		90' L	X		
5804	53	850 E ELMER RD	VINELAND CITY	08360	VIRUET, WENDA L	1796 DAVID ST, VINELAND NJ 08361	90' L	X		
5223	26	1812 S LINCOLN AVE	VINELAND CITY	08361	FEIGENBAUM, SAM & J %EQUIVA SERVIC	1762 S LINCOLN AVE, VINELAND NJ 08361	90' L		X	
5222	20	2380 DANTE AVE	VINELAND CITY	08361	GIORNO, MARIO S & DEBORAH		90' L	X		
6405	1	2025 BROOKFIELD ST	VINELAND CITY	08361	O'NEILL, SCOTT J		90' L	X		
5601	4	1321 ELM RD	VINELAND CITY	08360	DUNKELMAN, FELA	2325 W OAK RD, VINELAND NJ 08360	90' R	X		
6102	4	623 W ELMER RD	VINELAND CITY	08360	LOVISONNE, MELANIE P		90' R	X		
5902	14.2	1365 E ELMER RD	VINELAND CITY	08361	RIVERA, ORLANDO J	710 TALE TERRACE, VINELAND NJ 08360	90' R	X		
5902	29	1773 E ELMER RD	VINELAND CITY	08361	BOSCAGLIA, ANTHONY & FRANCES BUTLER	197 E BUTLER AVE, VINELAND NJ 08360	90' R	X		
6405	9	3349 DANTE AVE	VINELAND CITY	08361	NEGRON, MONICA L		90' R	X		
6502	1	2025 PANTHER RD	VINELAND CITY	08361	MUNIZ, MIREYA	714 ALLEN AVE, VINELAND NJ 08360	90' R	X		

5701	46	1925 S DELSEA DR	VINELAND CITY	08360	PLADECK, KELLY	1903 S DELSEA DR, VINELAND NJ 08360	91' L		X	
5701	51	1813 S DELSEA DR	VINELAND CITY	08360	COURTER-KORFF LLC	1824 W KORFF DR, VINELAND NJ 08360	91' L		X	
5801	50	420 E ELMER RD	VINELAND CITY	08360	BAGLIANI, ANTHONY M & MARIANNE D		91' L	X		
5804	54	838 E ELMER RD	VINELAND CITY	08360	KORMANN, ERIC R & JENNA M		91' L	X		
6201	10	373 E ELMER RD	VINELAND CITY	08360	CARDOSO, ONESIMO & EVA		91' R	X		
5502	64	1234 ELM RD	VINELAND CITY	08360	RODRIGUEZ, ROSA M	674 PARVINS MILL RD, BRIDGETON NJ 08302	92' L	X		
5502	69	1372 ELM RD	VINELAND CITY	08360	RONIS, SIGMOND		92' L	X		
5701	35	1790 S WEST BLVD	VINELAND CITY	08360	LUCIANO BROTHERS REALTY, LLC	PO BOX 2304, SOUTH VINELAND NJ 08362	92' L		X	
5901	89	1528 E ELMER RD	VINELAND CITY	08361	LAGERHOLM, DONALD & ELIZABETH		92' L	X		
5901	104	1182 E ELMER RD	VINELAND CITY	08361	KERASINIS, EVANGELIA		92' L	X		
5902	28	1757 E ELMER RD	VINELAND CITY	08361	MONTANEZ, WILLIAM & EVA		92' R	X		
5901	103	1204 E ELMER RD	VINELAND CITY	08361	CHRISTMANN, GLENN R & JEAN T		93' L	X		
5902	16	1413 E ELMER RD	VINELAND CITY	08361	TWADDELL, SHARON		93' R	X		
5902	23	1585 E ELMER RD	VINELAND CITY	08361	ANDOLARO, C C/O CJA SERVICES	2601 BARBARA DR, VINELAND NJ 08361	93' R	X		
5801	59.3	78 E ELMER RD	VINELAND CITY	08360	TELLIOGLU, RESUL & HATICE		94' L	X		
5222	11	2546 DANTE AVE	VINELAND CITY	08361	MALDONADO, RAMON & MARILYNN		94' L	X		
5601	3	1341 ELM RD	VINELAND CITY	08360	MARRERO, JULIO & RIVERA, LISANDRA		94' R	X		
6102	19	1940 S WEST BLVD	VINELAND CITY	08360	GARDEN PARK PROPERTIES, LLC	640 E WOOD ST, VINELAND NJ 08360	94' R		X	
6401	2	2131 DANTE AVE	VINELAND CITY	08361	CRISTELLI, FREDERICK H	2869 DRIFTWOOD LN, VINELAND 08361	94' R	X		
6402	16	3055 DANTE AVE	VINELAND CITY	08361	BERGEN, MARTIN & LYNNE		94' R	X		
6501	3	3661 DANTE AVE	VINELAND CITY	08361	GERI, MYRA		94' R	X		
5501	28	1508 ELM RD	VINELAND CITY	08360	SUDAL, JOHN	130 LEXINGTON AVE, WESTWOOD NJ 07675	95' L	X		
5902	26	1657 E ELMER RD	VINELAND CITY	08361	VENDRASCO, ALFRED V & PATRICIA G	1733 E ELMER RD, VINELAND NJ 08361	95' R	X		
5902	30	1793 E ELMER RD	VINELAND CITY	08361	SOFSKY, GAIL	PO BOX 368, NORMA NJ 08347	95' R	X		
5901	102	1220 E ELMER RD	VINELAND CITY	08361	JONES, CATHERINE S & MICHAEL		96' L	X		
6201	5.1	153 E ELMER RD	VINELAND CITY	08360	COMPARRI, NELLO A & KATHLEEN C		96' R	X		
5804	49	974 E ELMER RD	VINELAND CITY	08360	CRONK, RAY W SR	1854 S SPRING RD, VINELAND NJ 08361	97' L	X		
5804	51	908 E ELMER RD	VINELAND CITY	08360	MCKEON, STEPHEN		97' L	X		
6402	15	3037 DANTE AVE	VINELAND CITY	08361	BROSHCHAN, OLEG & ALENA	2537 PALERMO AVE, VINELAND NJ 08361	97' R	X		
5701	53	1715 S DELSEA DR	VINELAND CITY	08360	NSP ASSOCIATES		98' L		X	
5209	15	1985 WYNNEWOOD DR	VINELAND CITY	08361	LILLIE, SHARON A		98' L	X		
5237	19	2056 VENEZIA AVE	VINELAND CITY	08361	ROMERO, DAISY & RHINGO		98' L	X		
5601	65	1874 S DELSEA DR	VINELAND CITY	08360	COURTER-KORFF LLC	1824 W KORFF DR, VINELAND NJ 08360	98' R		X	

[illegible]

Project Name: Vineland Reliability Project (Tail Gas)

Pipe Size: 8"

STRUCTURES WITHIN 0-25.0 FEET RADIUS OF THE PIPELINE

[illegible]

Project Name: Vineland Reliability Project (Tail Gas)

Pipe Size: 8"

STRUCTURES WITHIN 25.01-50.0 FEET RADIUS OF THE PIPELINE

[illegible]

Pipe Size: 8"

[illegible][illegible]

Pipe Size: 8"

[illegible]

EXHIBIT E

NOTICE OF FILING AND PUBLIC HEARING
IN THE MATTER OF THE PETITION OF SOUTH JERSEY GAS COMPANY
FOR AUTHORIZATION TO CONSTRUCT AND OPERATE TRANSMISSION
PIPELINE PURSUANT TO N.J.A.C. 14:7-1.4

PLEASE TAKE NOTICE that on December 19, 2019, South Jersey Gas Company (“South Jersey”) filed a Petition with the New Jersey Board of Public Utilities (“Board”) requesting that the Board issue an order pursuant to N.J.A.C. 14:7-1.4 approving the installation of a new, approximately 9-mile natural gas transmission pipeline that will consist of approximately 7.1 miles of 16-inch diameter pipeline and approximately 1.6 miles of 8-inch diameter pipeline with an alignment that runs through the City of Vineland, Cumberland County, New Jersey (the “Project”). The Project will operate in excess of 250 psig within 100 feet of 429 buildings intended for human occupancy. Owners and residents of these buildings have received personal notice. Pursuant to N.J.A.C. 14:7-1.4, the Project will comply with 49 CFR 192.

PLEASE TAKE FURTHER NOTICE that the Board will conduct a public hearing for the purpose of receiving comments from the public regarding the Petition. A public hearing will be held at the following time and location:

DATE, TIME and LOCATION TBD

A representative of the Board will preside at the hearing. The public is invited to attend and interested persons will be permitted to testify and/or make a statement of their views on the proposed Petition. In order to encourage full participation in this opportunity for public comments, please submit any requests for needed accommodations, including interpreters, listening devices, or mobility assistance, at least 48 hours prior to the hearing, to the attention of the Board Secretary at the address below. Interested parties may also submit comments regarding the Petition to the attention of Aida Camacho-Welch, Secretary, New Jersey Board of Public Utilities, 44 South Clinton Street, 3rd Floor, P.O. Box 350, Trenton, New Jersey 08625-0350.

Copies of the Petition are available for public inspection during regular business hours at the Board’s office at 44 South Clinton Avenue, Trenton, New Jersey 08625 and on the South Jersey Gas Company website at <https://southjerseygas.com/about-south-jersey-gas/regulatory-compliance-tariff-information.aspx>.