



STATE OF DELAWARE  
**DEPARTMENT OF TRANSPORTATION**  
800 BAY ROAD  
P.O. BOX 778  
DOVER, DELAWARE 19903

JENNIFER COHAN  
SECRETARY

**VIA OVERNIGHT DELIVERY**

June 6, 2018

Contract No. T200512102.01  
Federal Aid Project No. STP-N029(3)  
Christina River Bridge Approaches  
New Castle County

Ladies and Gentlemen:

Enclosed is Addendum No. 2 for the referenced contract consisting of the following:

1. The Bid Proposal Cover, revised, to be substituted for the same page in the Proposal.
2. Two (2) pages, Table of Contents, page v and vii, revised, to be substituted for the same pages in the Proposal.
3. One (1) page, Special Provision 708512-Drainage Inlet Special I, has been deleted from the Proposal.
4. Two (2) pages, Special Provision 763711-OSHA Level C Upgrade, pages 275 and 276, has been deleted from the Proposal.
5. Two (2) pages, Special Provision 763712-OSHA Level C Upgrade, pages 275A and 276A, has been added to the Proposal.
6. The following Bid Pages have been revised and replaced: 10, 11, 12, 13, 14, 15, 16, 17, 18 and 21.
7. The following Plan Sheets have been revised and replaced: 295, 296, 297, 299, 302, 303, 307, 308 and 309.
8. The Utility Statement has been revised and replaced.
9. Expedite File Disc, Amendments No. 1.

**NOTE:** When loading the disc, amendment changes 0900-1580 can be disregarded. These were Line Number changes only.

Please note the revisions listed above and submit your bid based upon this information.

Sincerely,

*~signature on file~*

Robert A. Kovacs  
Competitively Bid Contracts Coordinator  
Delaware Department of Transportation

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT T200512102.01

FEDERAL AID PROJECT NO. STP-N029(3)

CFDA NO. 20.205

Christina River Bridge Approaches

New Castle County

ADVERTISEMENT DATE: May 9, 2018

COMPLETION TIME: 516 Calendar Days

**PROSPECTIVE BIDDERS ARE ADVISED THAT THERE WILL BE PRE-BID MEETING FRIDAY  
MAY 18, 2018 AT 1:00 P.M. IN THE DelDOT ADMINISTRATION BUILDING, 800 BAY ROAD,  
DOVER, DELAWARE, 19903.**

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION  
DELAWARE DEPARTMENT OF TRANSPORTATION  
AUGUST 2001

Bids will be received in the Bidder's Room at the Delaware Department of Transportation's Administration Building, 800 Bay Road, Dover, Delaware prior to 2:00 P.M. local time June 5 12, 2018

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708518 - DRAINAGE INLET, SPECIAL VII

**Description:**

This work consists of furnishing all materials and constructing special drainage inlets (catch basins) in accordance with locations, notes, details on Plans and as directed by the Engineer.

**Materials and Construction Methods:**

Materials and construction methods for special drainage inlets shall conform to the applicable requirements of Section 708 of the Standard Specifications, and notes with details on the Plans.

**Method of Measurement and Basis of Payment:**

Measurement and payment for the special drainage inlets shall be made in accordance with the Subsections 708.15 and 708.16 of the Standard Specifications.

10/29/01

Contract No. T200512102.01

### 763711 - OSHA LEVEL C UPGRADE

#### Description:

This work describes the OSHA Level C Health and Safety Requirements that may be required in specified areas as a result of excavation, removal and treatment/disposal of contaminated materials during project construction (including utility and other types of excavation activities) in accordance with the locations and notes on the Plans, and as directed by the Engineer or the Department's environmental representative.

Upgrade to Level C Personal Protective Equipment (PPE) requires workers to be 40-hour HAZWOPER trained, medically monitored and respirator fit tested. The Contractor must be capable to upgrade to Level C if field conditions warrant. It is the sole responsibility of the Contractor to ensure that the work crew have the proper training and necessary PPE to complete the required scope of work.

#### Construction Methods and Responsibilities:

The Contractor shall be responsible for providing the appropriate equipment and personnel necessary to perform OSHA Level C work as required during construction activities. The work will be performed in accordance with the procedures described in the site specific "Health and Safety Plan" prepared by the Department's environmental representative. A copy of this plan is provided in the bid package at advertisement. The Contractor shall adhere to applicable Occupational Safety and Health standards, Guidelines and/or Laws. This will include compliance with 29 CFR Part 1910.

OSHA Level C work will consist of using specific Personal Protective Equipment (PPE) such as tyvek (regular, or poly-coated, if field conditions are wet), nitrile gloves, booties and respiratory protection as described in the Health and Safety Plan. This upgrade to Level C PPE will be based on air monitoring and assessment of field conditions by the Department's environmental representative.

- A. Personal Protective Equipment (PPE). It is possible that work performed in the areas specified on the Plans as "Potential for Level C Upgrade" will require the upgrade to OSHA Level C PPE, with the proper site control measures. The Contractor will take those steps necessary, including providing all necessary Level C equipment necessary to complete construction activities in OSHA Level C PPE, if required (see Section 4 of the site specific Health and Safety Plan).
- B. Site Control Measures. The contractor will be responsible for designating the proper site control measures for Level C work. This shall include designating an exclusion zone, contamination reduction zone, and support zone.
- C. Air monitoring. All air monitoring during Level C work will be performed by the Department's environmental representative. The HASP section 3.4.2 specifies and justifies the action levels that shall require the Site Safety and Health Officer (SSHO) to alter operations by changing the required PPE, recommending different site control measures to be implemented, or temporarily stopping construction activities.
- D. Site Worker Training Documentation. Prior to any Level C work on the site, the contractor will provide to the Engineer and the Department's environmental representative documentation of the initial OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training, 8-hr refresher certification (if needed), medical monitoring, medical certification to wear a respirator and a current fit test for all crew members who will perform work in Level C.

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- E. Decontamination plan. The contractor will attempt to remove visible material from the equipment prior to leaving the construction site. The Contractor will be responsible for properly cleaning and maintaining all Level C equipment.

The Department's environmental representative shall be present during all phases of work associated with OSHA Level C Work. Payment will not be made for any work done when a Department approved Inspector and environmental representative is not present to provide environmental oversight.

**Department's Responsibilities:**

The Department is responsible for providing and paying the environmental representative. The Department's environmental representative will conduct air monitoring during any excavation activities at the site to monitor breathing zone concentrations. The Department's environmental representative will also oversee the excavation, removal and treatment/disposal of the material in the designated area(s) and perform such tests as field screening for contamination utilizing vapor monitoring techniques and collect samples for laboratory analysis to meet the requirements of the treatment/disposal facility, DNREC and/or the USEPA.

**Method of Measurement:**

The quantity of OSHA Level C Upgrade work will be measured as the number of hours of OSHA Level C work performed.

**Basis of Payment:**

The quantity of OSHA Level C Upgrade will be paid for at the Contract unit price per hour. Price and payment shall constitute full compensation for furnishing 40-hour HAZWOPER trained workers in Level C PPE, if required, at an hourly incremental difference above the standard excavation pay items included in this contract. Contractor's costs for OSHA Level C work will constitute full compensation for all labor, equipment, tools, establishment of exclusion, contamination and support zones, removal and restoration of areas, and incidentals necessary to satisfactorily complete the work as herein described under the item.

This item is a contingency item and the Department reserves the right to delete from the Contract. The Contractor shall make no claims for additional compensation because of deletion of the item.

01/22/18

## 763712 - OSHA LEVEL C UPGRADE

### **Description:**

This work describes the OSHA Level C Health and Safety Requirements that may be required in specified areas as a result of excavation, removal and treatment/disposal of contaminated materials during project construction (including utility and other types of excavation activities) in accordance with the locations and notes on the Plans, and as directed by the Engineer or the Department's environmental representative.

Upgrade to Level C Personal Protective Equipment (PPE) requires workers to be 40-hour HAZWOPER trained, medically monitored and respirator fit tested. The Contractor must be capable to upgrade to Level C if field conditions warrant. It is the sole responsibility of the Contractor to ensure that the work crew have the proper training and necessary PPE to complete the required scope of work.

### **Construction Methods and Responsibilities:**

The Contractor shall be responsible for providing the appropriate equipment and personnel necessary to perform OSHA Level C work as required during construction activities. The work will be performed in accordance with the procedures described in the site specific "Health and Safety Plan" prepared by the Department's environmental representative. A copy of this plan is provided in the bid package at advertisement. The Contractor shall adhere to applicable Occupational Safety and Health standards, Guidelines and/or Laws. This will include compliance with 29 CFR Part 1910.

OSHA Level C work will consist of using specific Personal Protective Equipment (PPE) such as tyvek (regular, or poly-coated, if field conditions are wet), nitrile gloves, booties and respiratory protection as described in the Health and Safety Plan. This upgrade to Level C PPE will be based on air monitoring and assessment of field conditions by the Department's environmental representative.

- A. Personal Protective Equipment (PPE). It is possible that work performed in the areas specified on the Plans as "Potential for Level C Upgrade" will require the upgrade to OSHA Level C PPE, with the proper site control measures. The Contractor will take those steps necessary, including providing all necessary Level C equipment necessary to complete construction activities in OSHA Level C PPE, if required (see Section 4 of the site specific Health and Safety Plan).
- B. Site Control Measures. The contractor will be responsible for designating the proper site control measures for Level C work. This shall include designating an exclusion zone, contamination reduction zone, and support zone.
- C. Air monitoring. All air monitoring during Level C work will be performed by the Department's environmental representative. The HASP section 3.4.2 specifies and justifies the action levels that shall require the Site Safety and Health Officer (SSHO) to alter operations by changing the required PPE, recommending different site control measures to be implemented, or temporarily stopping construction activities.
- D. Site Worker Training Documentation. Prior to any Level C work on the site, the contractor will provide to the Engineer and the Department's environmental representative documentation of the initial OSHA 40-hour Hazardous Waste Operations and Emergency Response (HAZWOPER) training, 8-hr refresher certification (if needed), medical monitoring, medical certification to wear a respirator and a current fit test for all crew members who will perform work in Level C.
- E. Decontamination plan. The contractor will attempt to remove visible material from the equipment prior to leaving the construction site. The Contractor will be responsible for properly cleaning and maintaining all Level C equipment.

The Department's environmental representative shall be present during all phases of work associated with OSHA Level C Work. Payment will not be made for any work done when a Department approved Inspector and environmental representative is not present to provide environmental oversight.



**Department's Responsibilities:**

The Department is responsible for providing and paying the environmental representative. The Department's environmental representative will conduct air monitoring during any excavation activities at the site to monitor breathing zone concentrations. The Department's environmental representative will also oversee the excavation, removal and treatment/disposal of the material in the designated area(s) and perform such tests as field screening for contamination utilizing vapor monitoring techniques and collect samples for laboratory analysis to meet the requirements of the treatment/disposal facility, DNREC and/or the USEPA.

**Method of Measurement:**

The quantity of OSHA Level C Upgrade work will be measured as the number of hours of OSHA Level C work performed.

**Basis of Payment:**

The quantity of OSHA Level C Upgrade will be paid for at the Contract unit price per hour. Price and payment shall constitute full compensation for furnishing 40-hour HAZWOPER trained workers in Level C PPE, if required, at an hourly incremental difference above the standard excavation pay items included in this contract. Contractor's costs for OSHA Level C work will constitute full compensation for all labor, equipment, tools, establishment of exclusion, contamination and support zones, removal and restoration of areas, and incidentals necessary to satisfactorily complete the work as herein described under the item.

This item is a contingency item and the Department reserves the right to delete from the Contract. The Contractor shall make no claims for additional compensation because of deletion of the item.

01/22/18

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 10  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0870	708114 MANHOLE, 66" X 48"	1.000 EACH				
0880	708115 MANHOLE, 66" X 66"	2.000 EACH				
0890	708541 CATCH BASIN SQUARE COS, 5'	4.000 EACH				
0900	708542 CATCH BASIN SQUARE COG, 5'	16.000 EACH				
0910	708585 JUNCTION BOX, 48" X 30"	1.000 EACH				
0920	708599 ELECTRIC DUCTBANK AND MANHOLE SYSTEM	LUMP	LUMP			
0930	710001 ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	43.000 EACH				
0940	710002 ADJUSTING AND REPAIRING EXISTING MANHOLE	22.000 EACH				
0950	710501 CONVERTING EXISTING CATCH BASIN TO MANHOLE	17.000 EACH				
0960	710506 ADJUST AND REPAIR EXISTING SANITARY MANHOLE	32.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 11  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
0970	710507 ADJUST AND REPAIR EXISTING SANITARY CLEANOUTS	17.000 EACH				
0980	710508 CONVERT EXISTING MANHOLE TO CATCH BASIN	1.000 EACH				
0990	712005 RIPRAP, R-4	165.000 SY				
1000	712006 RIPRAP, R-5	69.000 SY				
1010	713001 GEOTEXTILES, STABILIZATION	450.000 SY				
1020	713003 GEOTEXTILES, RIPRAP	234.000 SY				
1030	715000 PERFORATED PIPE UNDERDRAINS, 4"	784.000 LF				
1040	715001 PERFORATED PIPE UNDERDRAINS, 6"	12301.000 LF				
1050	715500 UNDERDRAIN OUTLET PIPE, 6"	326.000 LF				
1060	716000 CONVERTING EXISTING DRAINAGE INLET TO JUNCTION BOX	2.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 12  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

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CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1070	718503 TRENCH DRAIN, 10" WIDE	100.000 LF				
1080	718510 TRENCH DRAIN, 6" WIDE	184.000 LF				
1090	718511 CURB/SIDEWALK OPENING	12.000 EACH				
1100	720533 PERMANENT WOOD BARRICADE	1.000 EACH				
1110	727004 CHAIN-LINK FENCE, 6' HIGH	878.000 LF				
1120	727006 TERMINAL POSTS FOR 6' CHAIN-LINK FENCE	10.000 EACH				
1130	727012 VEHICULAR GATES	1.000 EACH				
1140	727015 MONUMENTS	108.000 EACH				
1150	727519 RELOCATE CHAINLINK FENCE	197.000 LF				
1160	727522 DECORATIVE FENCE	52.000 LF				
1170	727538 RELOCATE GATE	2.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 13  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

All figures must be typewritten.

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1180	727548 PORTABLE CHAINLINK FENCE	608.000 LF				
1190	727554 RELOCATE FENCES AND GATES	LUMP	LUMP			
1200	737523 PLANTINGS	LUMP	LUMP			
1210	737529 PLANTING SOIL	6719.000 CY				
1220	743000 MAINTENANCE OF TRAFFIC	LUMP	LUMP			
1230	743003 ARROWPANELS, TYPE C	275.000 EADY				
1240	743004 FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	800.000 EADY				
1250	743005 FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY	1700.000 EADY				
1260	743006 PLASTIC DRUMS	50000.000 EADY				
1270	743007 TRAFFIC OFFICERS	9000.000 HOUR	75.00000		675000.00	

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 14  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1280	743010 FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	200.000 EADY				
1290	743011 CRASH CUSHIONS (SAND BARRELS)	1.000 EACH				
1300	743015 FURNISH AND MAINTAIN PORTABLE PCC SAFETY BARRIER	4018.000 LF				
1310	743016 RELOCATION PORATBLE SAFETY BARRIER	6592.000 LF				
1320	743023 TEMPORARY BARRICADES, TYPE III	250000.000 LFDY				
1330	743024 TEMPORARY WARNING SIGNS AND PLAQUES	50000.000 EADY				
1340	743025 INSTALL TEMPORARY IMPACT ATTENUATOR	10.000 EACH				
1350	743028 FURNISH TEMPORARY IMPACT ATTENUATOR - NON-GATING, REDIRECTIVE, TEST-LEVEL 2	5.000 EACH				
1360	743030 RELOCATE TEMPORARY IMPACT ATTENUATOR	8.000 EACH				
1370	743050 FLAGGER, NEW CASTLE COUNTY, STATE	12000.000 HOUR				

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 15  
DATE:

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CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1380	743062 FLAGGER, NEW CASTLE COUNTY, STATE, OVERTIME	3000.000 HOUR				
1390	743552 PEDESTRIAN CHANNELIZING BARRICADE	200000.000 LFDY				
1400	743553 TEMPORARY PEDESTRIAN PATHWAY	900.000 SY				
1410	744506 CONDUIT JUNCTION WELL, TYPE 7, PRECAST POLYMER CONCRETE	5.000 EACH				
1420	744530 CONDUIT JUNCTION WELL, TYPE 11, PRECAST CONCRETE/ POLYMER LID-FRAME	49.000 EACH				
1430	744531 CONDUIT JUNCTION WELL, TYPE 14, PRECAST CONCRETE/ POLYMER LID-FRAME	19.000 EACH				
1440	744544 ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	6.000 EACH				
1450	745602 FURNISH & INSTALL UP TO 4" SCHEDULE 80 HDPE CONDUIT (BORE)	1549.000 LF				
1460	745603 FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (OPEN CUT)	195.000 LF				
1470	745604 FURNISH & INSTALL UP TO 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	29661.000 LF				

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 16  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

All figures must be typewritten.

CONTRACTOR :

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1480	745606 FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (TRENCH)	529.000 LF				
1490	745607 FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (BORE)	120.000 LF				
1500	745608 FURNISH & INSTALL UP TO 4" GALVANIZED STEEL CONDUIT (OPEN CUT)	45.000 LF				
1510	746515 FURNISH & INSTALL 1-CONDUCTOR #6 AWG STRANDED INSULATED COPPER GROUND WIRE	21692.000 LF				
1520	746537 RELOCATING EXISTING LIGHT STANDARDS	1.000 EACH				
1530	746556 INSTALLING PULL BOX	18.000 EACH				
1540	746564 INSULATED GROUND CABLES, 1/#4	204.000 LF				
1550	746598 INSULATED GROUND CABLE , 1/#2	283.000 LF				
1560	746610 INSTALLING CONDUIT, 4"	7014.000 LF				
1570	746653 ELECTRICAL TESTING	LUMP	LUMP			



DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 17  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1580	746698 REMOVAL OF WOOD POLE	54.000 EACH				
1590	746848 POLE BASE, TYPE 3A	8.000 EACH				
1600	746850 POLE BASE, TYPE 4A	11.000 EACH				
1610	746877 PARKING LOT LIGHTING MODIFICATIONS	LUMP		LUMP		
1620	746907 FURNISH & INSTALL 1-CONDUCTOR #2 AWG STRANDED COPPER	1104.000 LF				
1630	746908 FURNISH & INSTALL 1-CONDUCTOR #4 AWG STRANDED COPPER	611.000 LF				
1640	746909 FURNISH & INSTALL 1-CONDUCTOR #6 AWG STRANDED COPPER	61604.000 LF				
1650	746926 FURNISH & INSTALL ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240	1.000 EACH				
1660	746960 ALUMINUM LIGHTING STANDARD WITH SINGLE DAVIT ARM, LED, 30' POLE	25.000 EACH				
1670	746961 DECORATIVE LIGHT STANDARD AND FIXTURE, LED, SINGLE	158.000 EACH				

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 18  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

All figures must be typewritten.

CONTRACTOR : \_\_\_\_\_

LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1680	746962 DECORATIVE LIGHT STANDARD AND FIXTURE, LED, DOUBLE	7.000 EACH				
1690	747508 LIGHTING CONTROL CENTER - 100 A	5.000 EACH				
1700	747513 LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE (120/240; 100 AMP)	1.000 EACH				
1710	747516 CABINET BASE, TYPE P	4.000 EACH				
1720	747517 CABINET BASE, TYPE R	1.000 EACH				
1730	748015 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND ALKYD-THERMOPLAST IC	9052.000 SF				
1740	748026 TEMPORARY MARKINGS, PAINT SYMBOL/LEGEND	140.000 SF				
1750	748530 REMOVAL OF PAVEMENT STRIPING	2483.000 SF				
1760	748548 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	130000.000 LF				

DELAWARE DEPARTMENT OF TRANSPORTATION  
SCHEDULE OF ITEMS

PAGE: 21  
DATE:

CONTRACT ID: T200512102.01 PROJECT(S): T200512102

All figures must be typewritten.

CONTRACTOR :

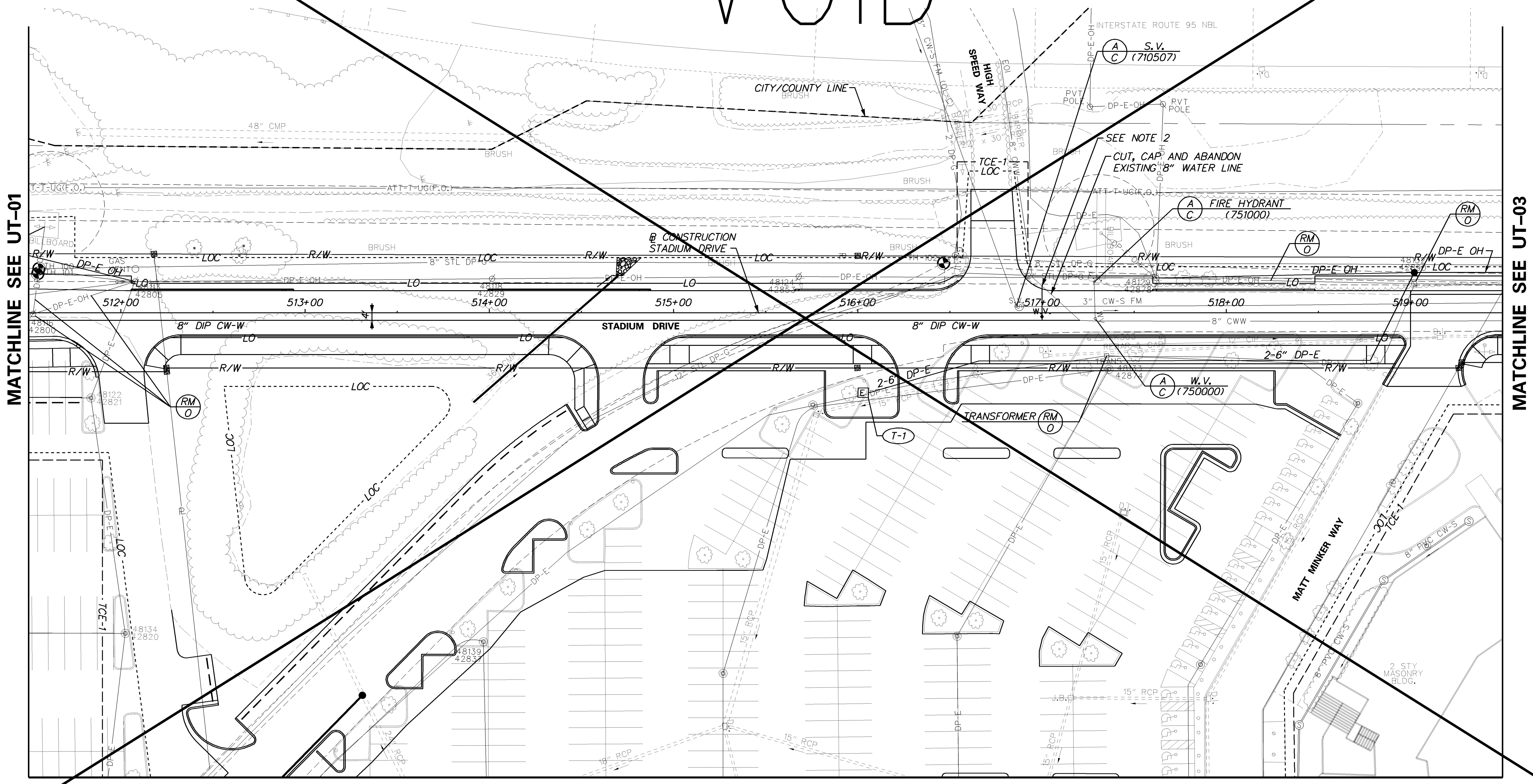
LINE NO	ITEM DESCRIPTION	APPROX. QUANTITY AND UNITS	UNIT PRICE		BID AMOUNT	
			DOLLARS	CTS	DOLLARS	CTS
1960	763501 CONSTRUCTION ENGINEERING	LUMP	LUMP			
1970	763502 MAINTENANCE OF RAILROAD TRAFFIC	LUMP	LUMP			
1980	763503 TRAINEE	1000.000 HOUR	0.80000		800.00	
1990	763508 PROJECT CONTROL SYSTEM DEVELOPMENT PLAN	LUMP	LUMP			
2000	763509 CPM SCHEDULE UPDATES AND/OR REVISED UPDATES	18.000 EAMO				
2010	763589 DP&L STORAGE YARD MODIFICATIONS	LUMP	LUMP			
2020	763597 UTILITY CONSTRUCTION ENGINEERING	1000.000 HOUR				
2030	763712 OSHA LEVEL C UPGRADE	275.000 HOUR				
2040	905001 SILT FENCE	19115.000 LF				
2050	905004 INLET SEDIMENT CONTROL, DRAINAGE INLET	60.000 EACH				

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-100	DP-G	511+55.6	24.0' LT	5.56'	3.21'	8" COATED STEEL
TH-101	DP-E	511+55.0	21.3' LT	5.53'	2.95'	(3) 1" ELECTRIC CABLES
TH-102	DP-G	516+46.6	27.0' LT	3.58'	3.33'	8 3/4" COATED STEEL

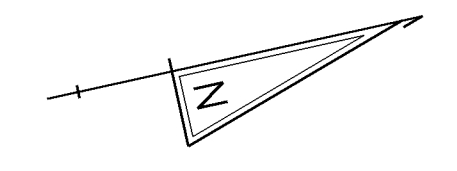
DELMARVA SWITCHGEAR & TRANSFORMER CENTRE STAKEOUT DATA		
NO.	NORTHING	EASTING
T-1	630516.5741	614279.3192

- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - CONNECT TO EXISTING WATER MAIN WITH AN 8" X 8" MECHANICAL JOINT TAPPING SLEEVE AND VALVE WITH BOX. PROVIDE STANDARD CONCRETE BUTTRESS BEHIND SLEEVE.

VOID



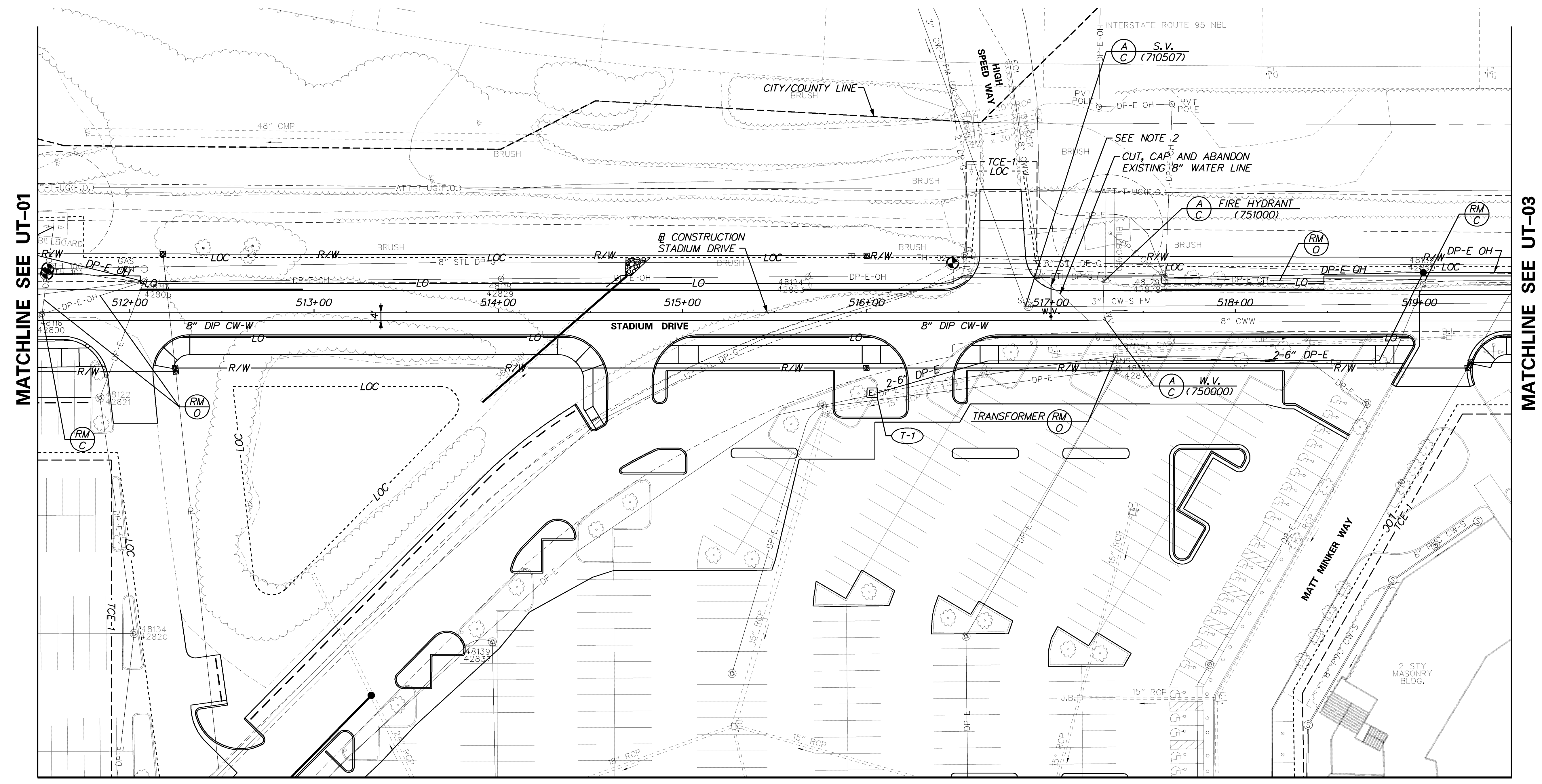
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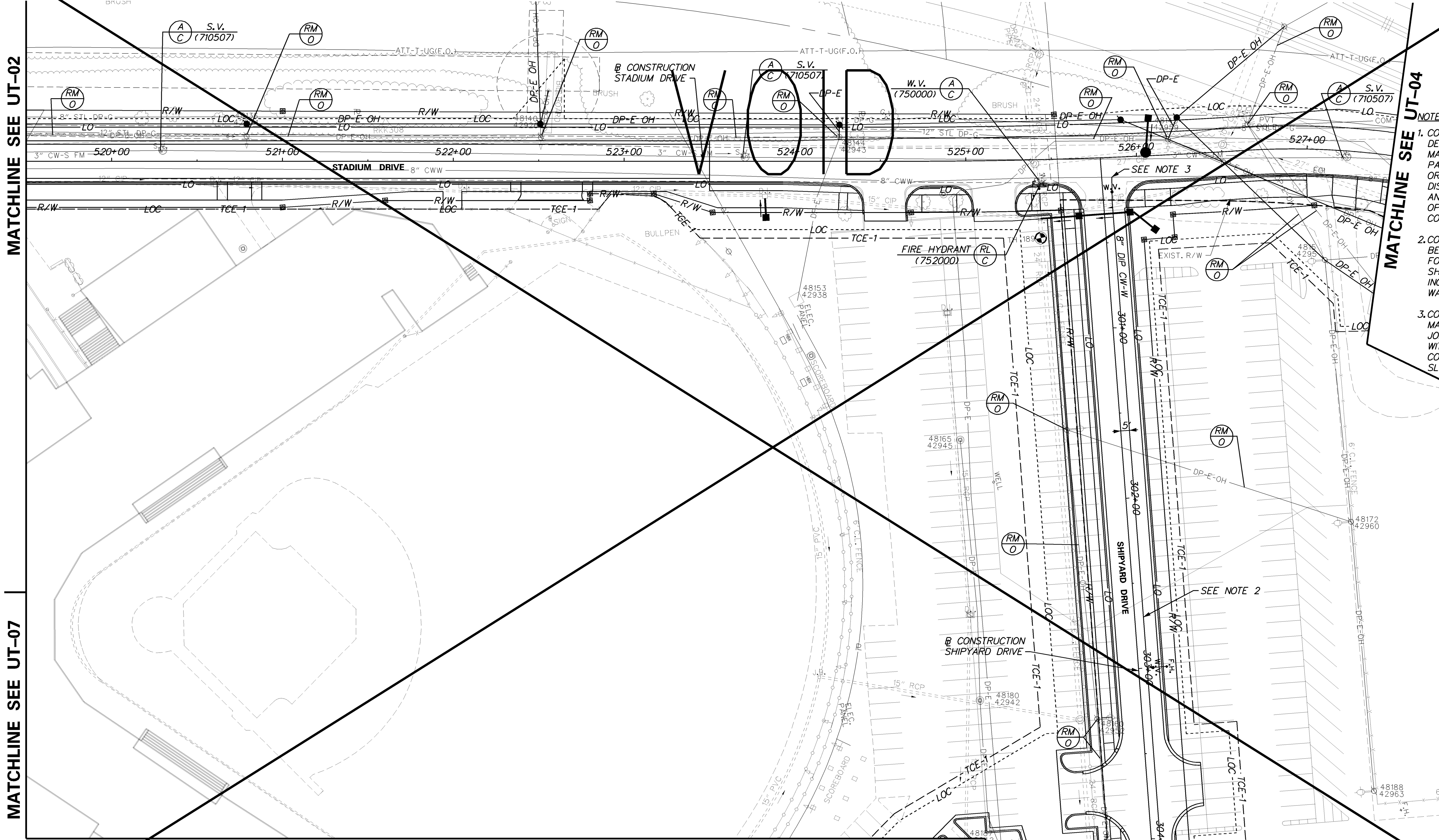
UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-100	DP-G	511+55.6	24.0' LT	5.56'	3.21'	8" COATED STEEL
TH-101	DP-E	511+55.0	21.3' LT	5.53'	2.95'	(3) 1" ELECTRIC CABLES
TH-102	DP-G	516+46.6	27.0' LT	3.58'	3.33'	8 3/4" COATED STEEL

DELMARVA SWITCHGEAR & TRANSFORMER STAKEOUT DATA		
NO.	NORTHING	EASTING
T-1	630516.5741	614279.3192

- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - CONNECT TO EXISTING WATER MAIN WITH AN 8" X 8" MECHANICAL JOINT TAPPING SLEEVE AND VALVE WITH BOX. PROVIDE STANDARD CONCRETE BUTTRESS BEHIND SLEEVE.



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- NOTES:
1. CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  2. CONTRACTOR SHALL INSTALL BENZENE RESISTANT GASKETS FOR THE WATER LINE IN SHIPYARD DRIVE. COST TO BE INCLUDED IN ITEM 614508, WATER MAIN AND ACCESSORIES.
  3. CONNECT TO EXISTING WATER MAIN WITH AN 8" X 8" MECHANICAL JOINT TAPPING SLEEVE AND VALVE WITH BOX. PROVIDE STANDARD CONCRETE BUTTRESS BEHIND SLEEVE.

**UTILITY TEST HOLE SCHEDULE**

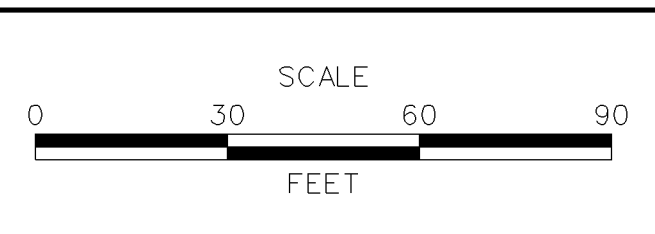
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-189	--	300+44.2	38.2' RT	6.64'	5.30'	24" C.M.P. STORM LINE

2/9/2018 3:03:53 PM I:\PROJECTS\2004\04130\_CRB\CADD\T200512102\PLANS\UT03\_CRB.DGN



ADDENDUMS / REVISIONS

VOIDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, SEE SHEET 296A, CDW 5/18/18

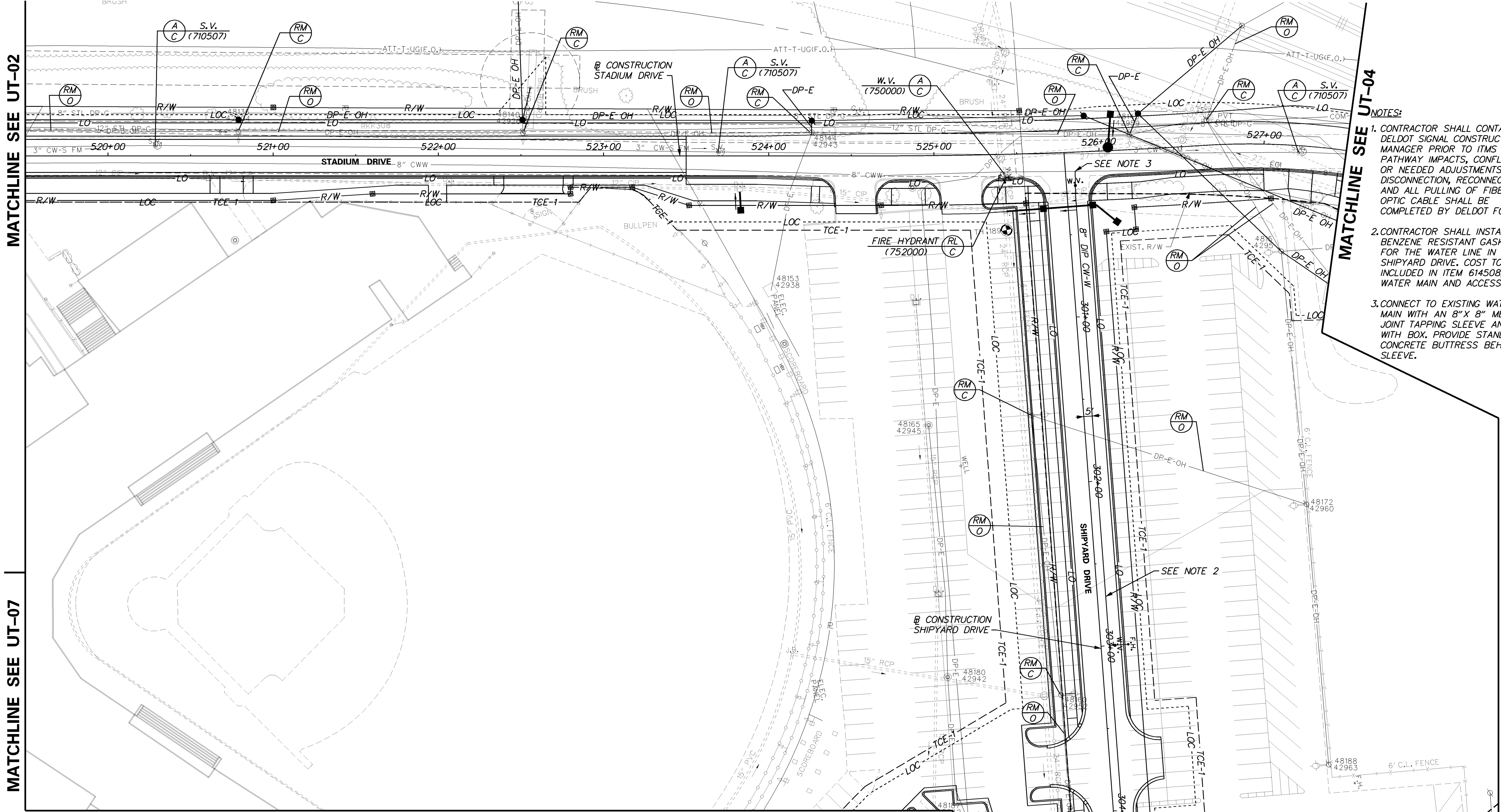
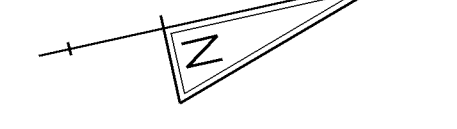


**CHRISTINA RIVER BRIDGE**  
**APPROACHES**

CONTRACT	BRIDGE NO.	1-691
T200512102	DESIGNED BY:	SJS
COUNTY	CHECKED BY:	CDW
NEW CASTLE		

**UTILITY RELOCATION PLAN**

UT-03
SHEET NO.
296
TOTAL SHTS.
362



- NOTES:
1. CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  2. CONTRACTOR SHALL INSTALL BENZENE RESISTANT GASKETS FOR THE WATER LINE IN SHIPYARD DRIVE. COST TO BE INCLUDED IN ITEM 614508, WATER MAIN AND ACCESSORIES.
  3. CONNECT TO EXISTING WATER MAIN WITH AN 8" X 8" MECHANICAL JOINT TAPPING SLEEVE AND VALVE WITH BOX. PROVIDE STANDARD CONCRETE BUTTRESS BEHIND SLEEVE.

**UTILITY TEST HOLE SCHEDULE**

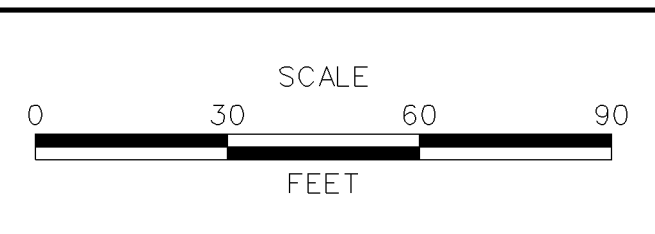
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-189	--	300+44.2	38.2' RT	6.64'	5.30'	24" C.M.P. STORM LINE

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ADDENDUMS / REVISIONS

△	ADDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, CDW 5/18/18
---	--

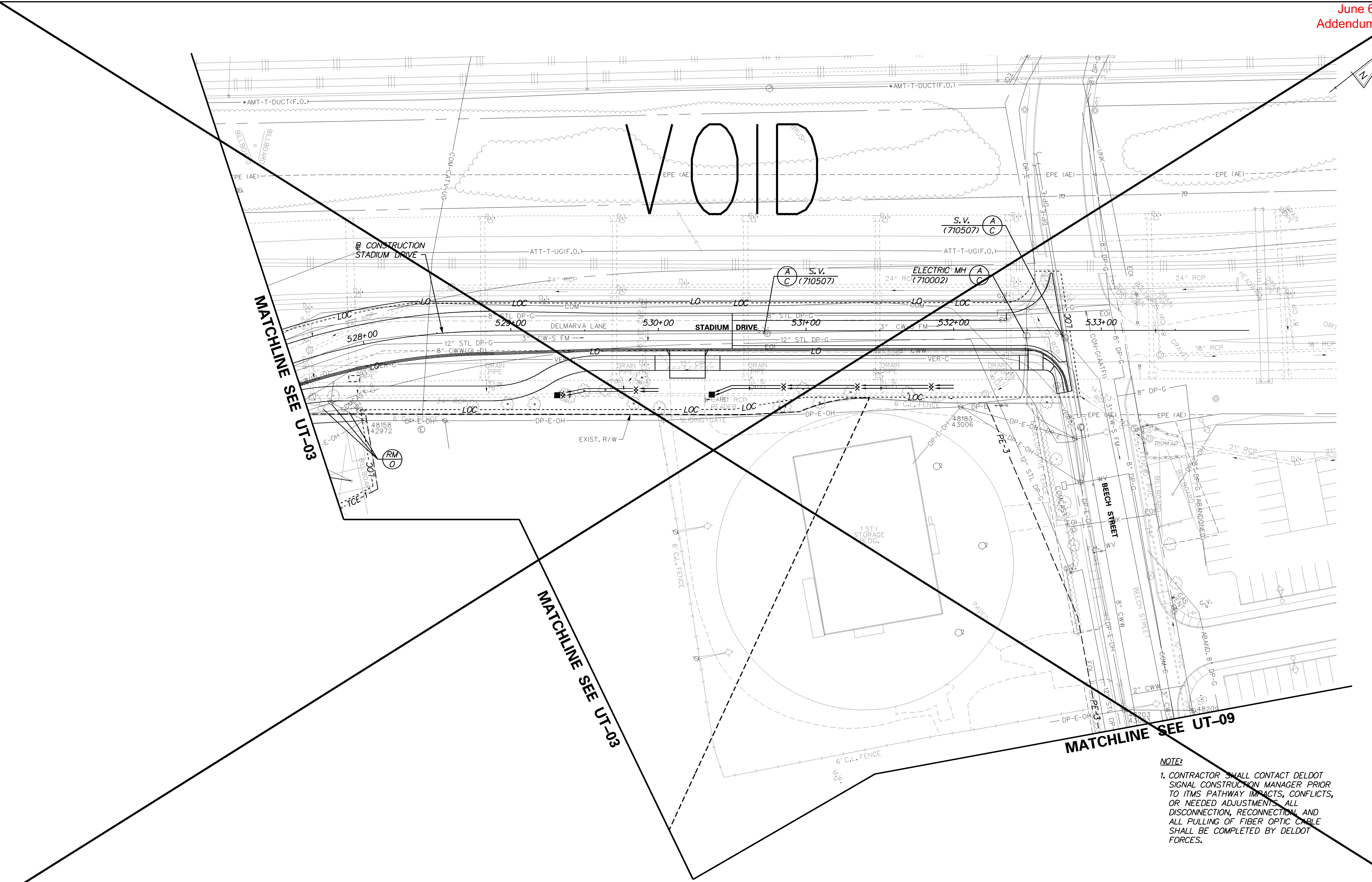


**CHRISTINA RIVER BRIDGE  
APPROACHES**

CONTRACT	T200512102	BRIDGE NO.	1-691
COUNTY	NEW CASTLE	DESIGNED BY:	SJS
		CHECKED BY:	CDW

**UTILITY RELOCATION PLAN**

<b>UT-03</b>
SHEET NO.
296A
TOTAL SHTS.
362

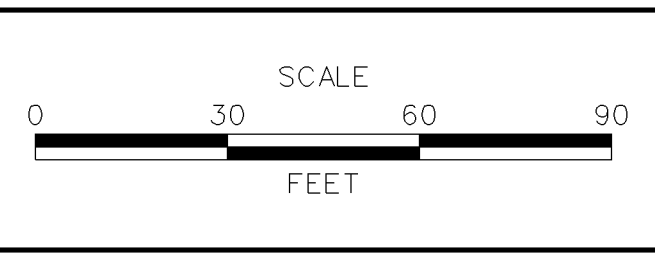


**NOTE:**  
1. CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.

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**DELAWARE DEPARTMENT OF TRANSPORTATION**

ADDENDUMS / REVISIONS	
△	VOIDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, SEE SHEET 297A, CDW 5/18/18



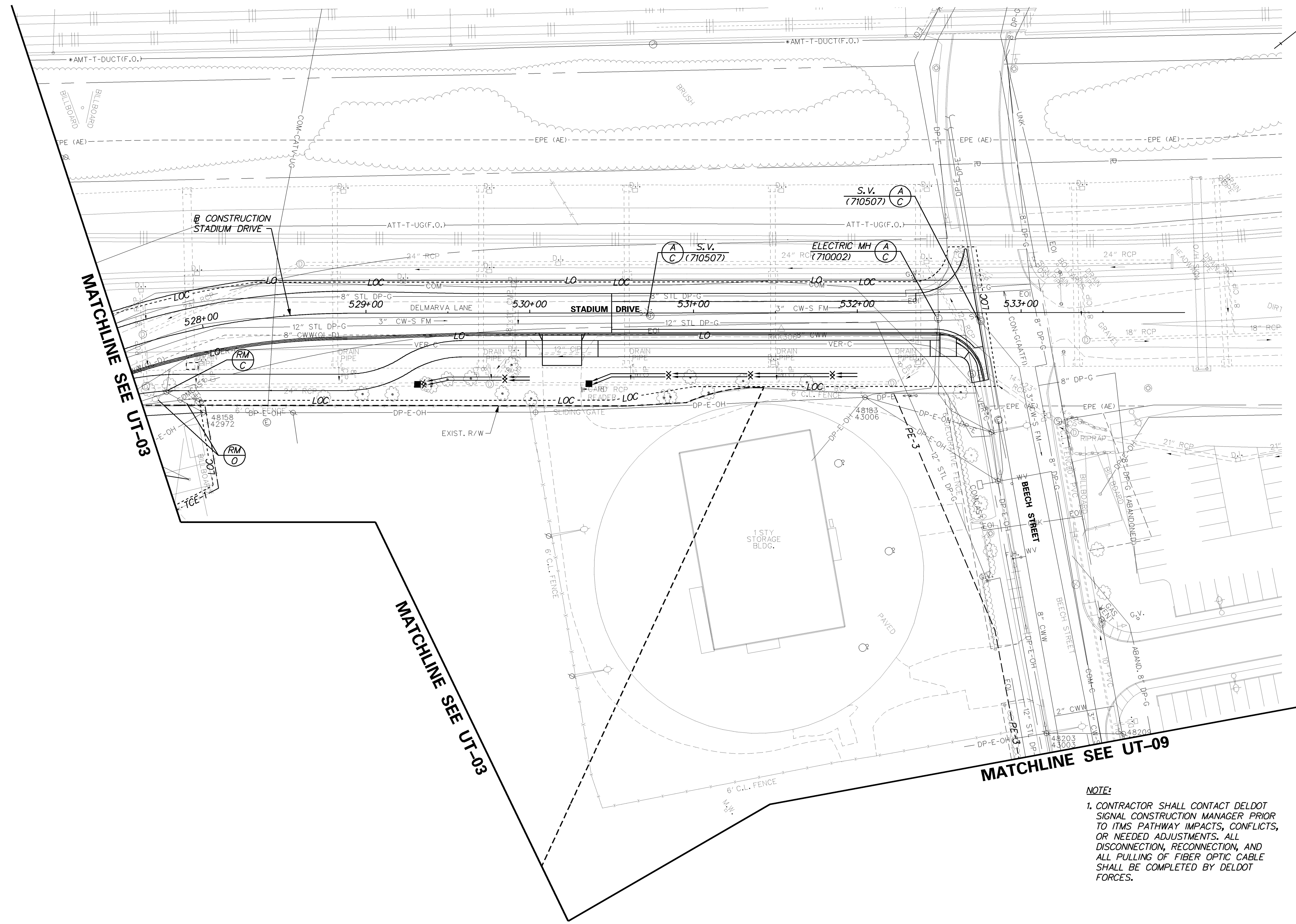
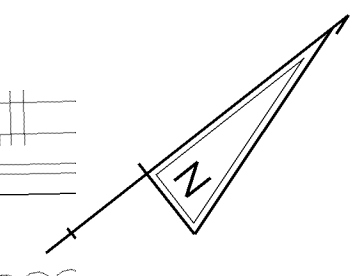
**CHRISTINA RIVER BRIDGE APPROACHES**

CONTRACT	T200512102	BRIDGE NO.	1-691
COUNTY	NEW CASTLE	DESIGNED BY:	SJS
		CHECKED BY:	CDW

**UTILITY RELOCATION PLAN**

UT-04	
SHEET NO.	297
TOTAL SHTS.	362





MATCHLINE SEE UT-03

MATCHLINE SEE UT-03

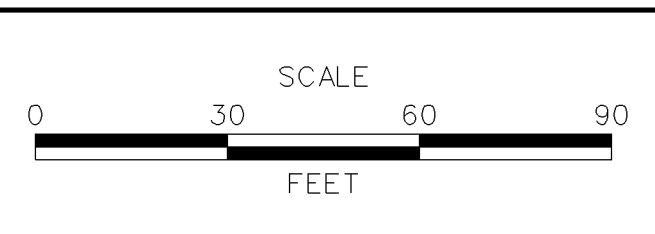
MATCHLINE SEE UT-09

**NOTE:**  
1. CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.

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ADDENDUMS / REVISIONS	
△	ADDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, CDW 5/18/18



**CHRISTINA RIVER BRIDGE APPROACHES**

CONTRACT	T200512102	BRIDGE NO.	1-691
COUNTY	NEW CASTLE	DESIGNED BY:	SJS
		CHECKED BY:	CDW

**UTILITY RELOCATION PLAN**

<b>UT-04</b>
SHEET NO.
297A
TOTAL SHTS.
362

**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-104	DP-G	203+90.5	20.9' LT	7.75'	3.40'	8" COATED STEEL
TH-105	DP-G	203+91.0	15.5' LT	7.57'	2.90'	12" COATED STEEL
TH-106	DP-G	205+33.2	21.8' LT	8.04'	3.35'	8" COATED STEEL
TH-107	DP-G	205+33.7	13.2' LT	7.93'	3.65'	12" COATED STEEL
TH-109	CW-W	206+72.6	18.2' LT	7.52'	3.25'	8 3/4" PLASTIC
TH-110	CW-W	207+69.8	10.7' LT	7.17'	3.00'	9" X 7" DUCTILE IRON TEE
TH-192	CW-S	206+73.6	10.0' RT	7.80'	3.46'	2 1/2" PLASTIC

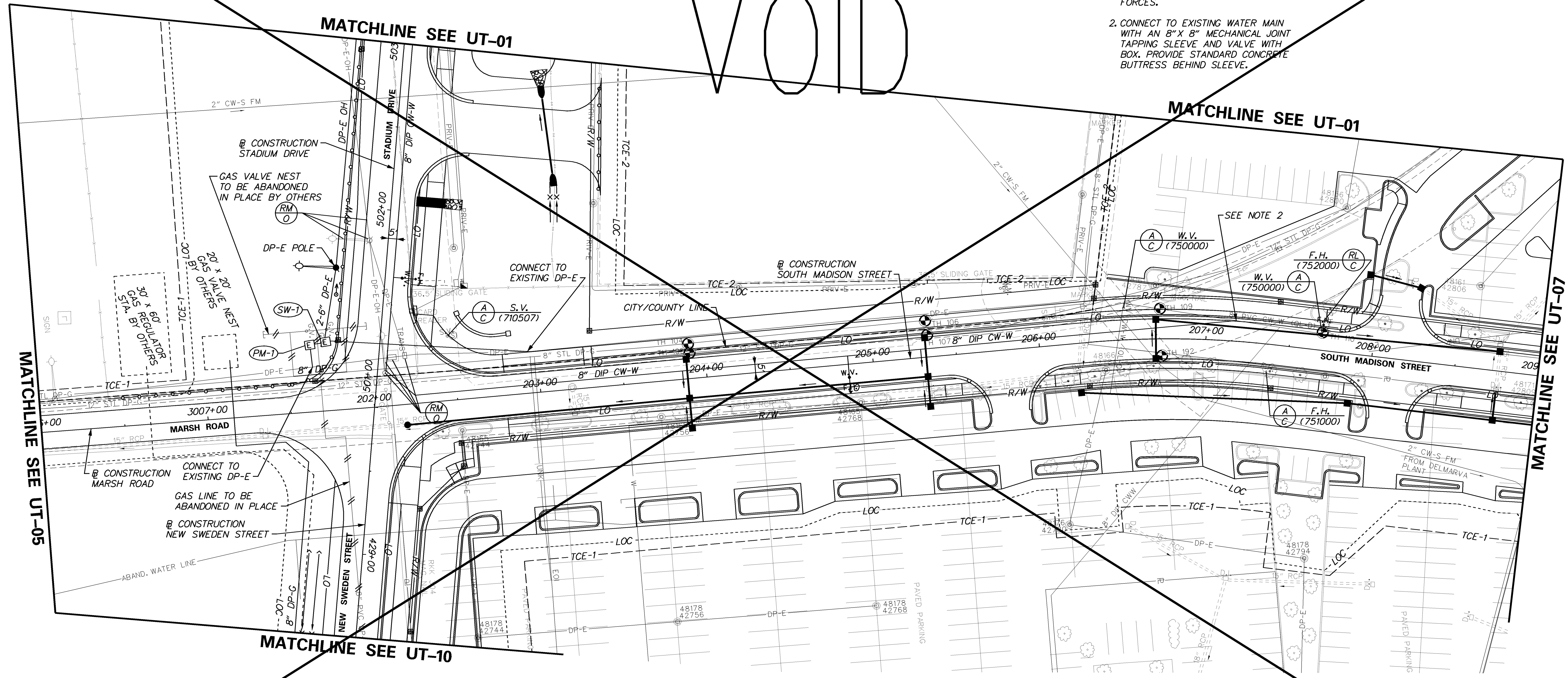
**DELMARVA SWITCHGEAR & TRANSFORMER  
☉ STAKEOUT DATA**

NO.	NORTHING	EASTING
PM-1	629276.2204	614556.4657
SW-1	629285.8518	614555.5732

**NOTES:**

- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
- CONNECT TO EXISTING WATER MAIN WITH AN 8" X 8" MECHANICAL JOINT TAPPING SLEEVE AND VALVE WITH BOX. PROVIDE STANDARD CONCRETE BUTTRESS BEHIND SLEEVE.

**VOID**

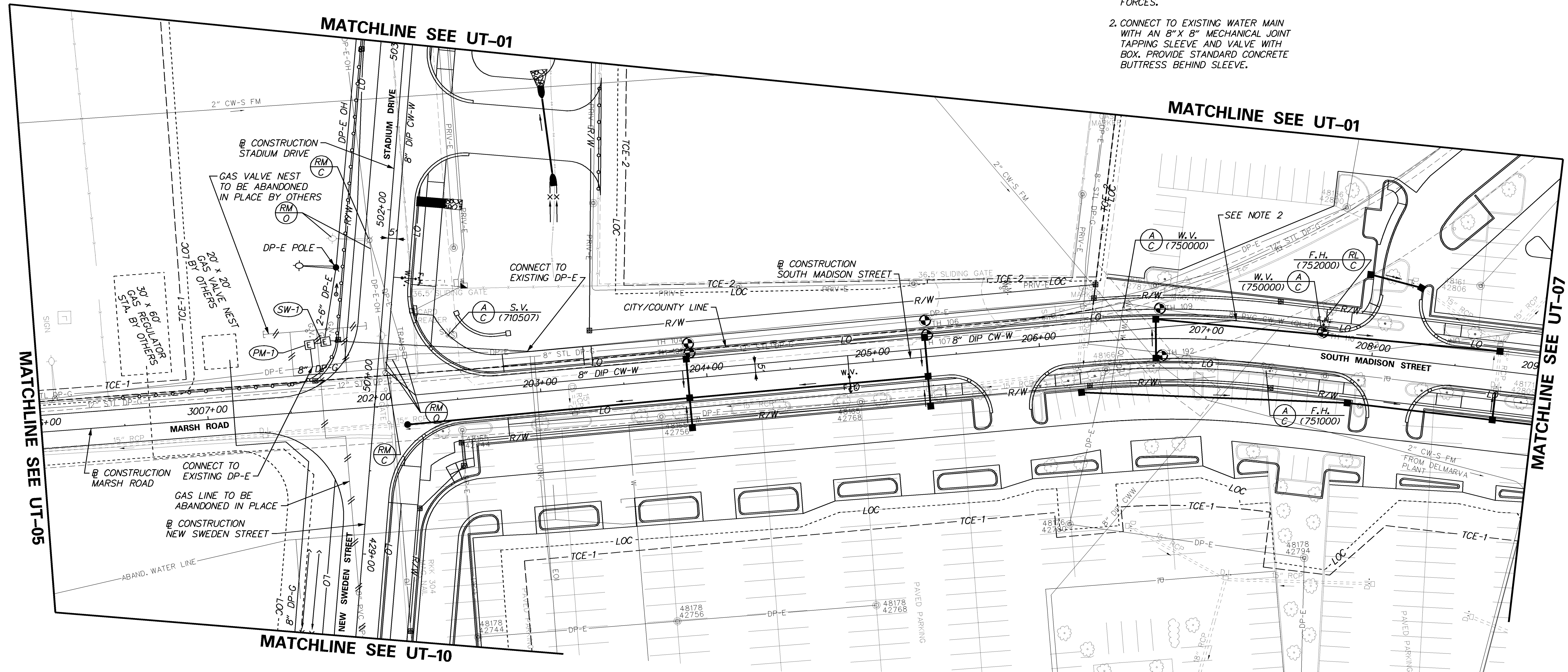
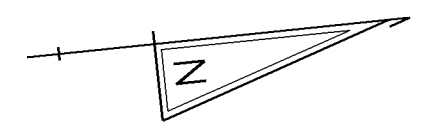


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UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-104	DP-G	203+90.5	20.9' LT	7.75'	3.40'	8" COATED STEEL
TH-105	DP-G	203+91.0	15.5' LT	7.57'	2.90'	12" COATED STEEL
TH-106	DP-G	205+33.2	21.8' LT	8.04'	3.35'	8" COATED STEEL
TH-107	DP-G	205+33.7	13.2' LT	7.93'	3.65'	12" COATED STEEL
TH-109	CW-W	206+72.6	18.2' LT	7.52'	3.25'	8 3/4" PLASTIC
TH-110	CW-W	207+69.0	10.7' LT	7.17'	3.00'	9" X 7" DUCTILE IRON TEE
TH-192	CW-S	206+73.6	10.0' RT	7.80'	3.46'	2 1/2" PLASTIC

DELMARVA SWITCHGEAR & TRANSFORMER ☒ STAKEOUT DATA		
NO.	NORTHING	EASTING
PM-1	629276.2204	614556.4657
SW-1	629285.8518	614555.5732

- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - CONNECT TO EXISTING WATER MAIN WITH AN 8" X 8" MECHANICAL JOINT TAPPING SLEEVE AND VALVE WITH BOX. PROVIDE STANDARD CONCRETE BUTTRESS BEHIND SLEEVE.



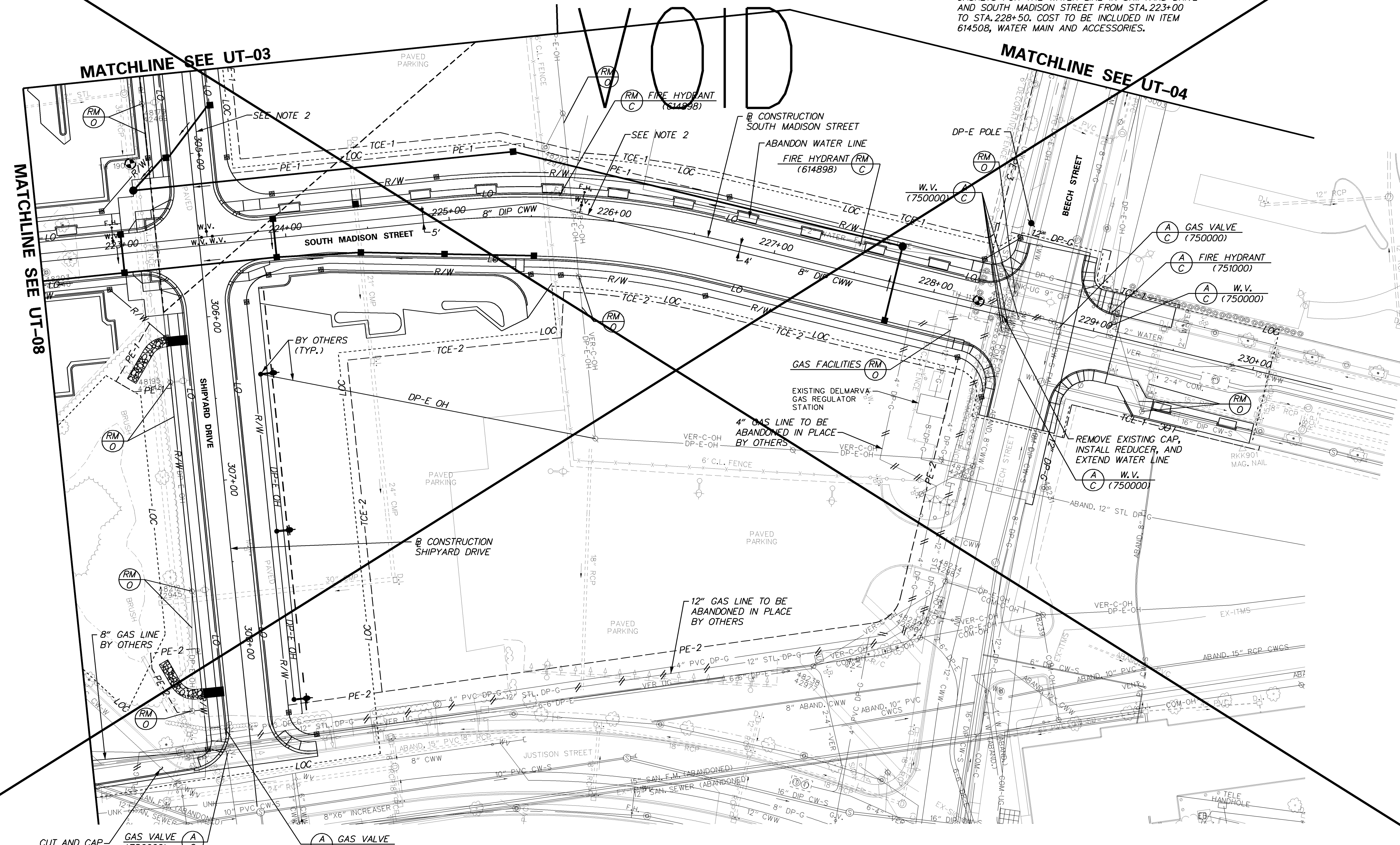
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**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-117	DP-G	228+27.9	1.4' LT	8.82'	3.89'	12 3/4" WRAPPED STEEL
TH-190	--	305+02.4	36.9' RT	7.43'	6.89'	36" ROUGH POUR CONCRETE STORM LINE

**NOTES:**

- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
- CONTRACTOR SHALL INSTALL BENZENE RESISTANT GASKETS FOR THE WATER LINE IN SHIPYARD DRIVE AND SOUTH MADISON STREET FROM STA. 223+00 TO STA. 228+50. COST TO BE INCLUDED IN ITEM 614508, WATER MAIN AND ACCESSORIES.

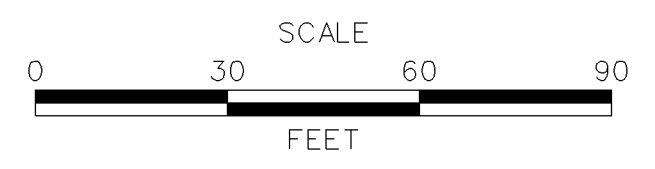


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**ADDENDUMS / REVISIONS**

1	VOIDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, SEE SHEET 302A, CDW 5/18/18
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**CHRISTINA RIVER BRIDGE APPROACHES**

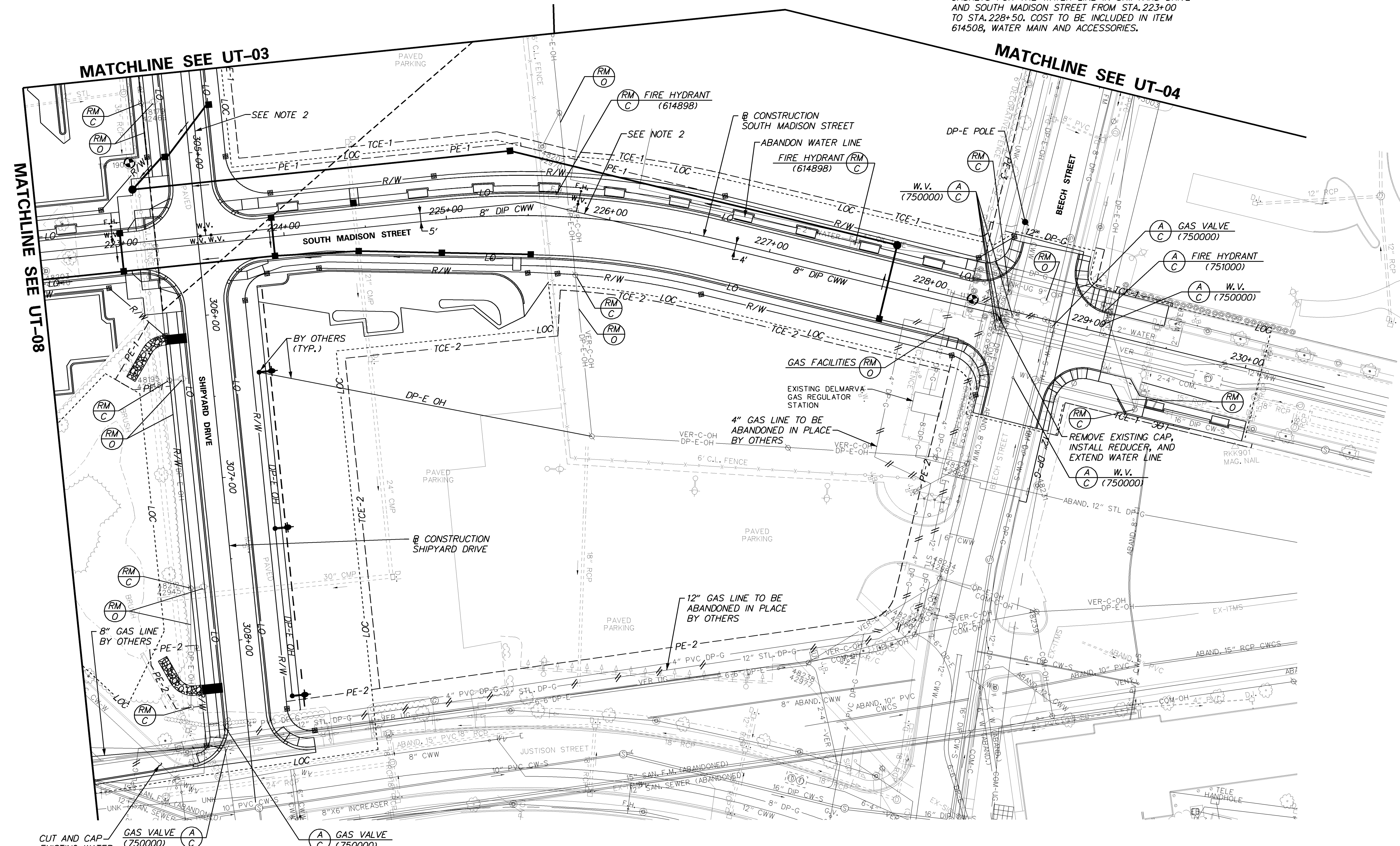
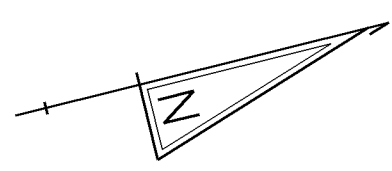
CONTRACT	T200512102	BRIDGE NO.	1-691
COUNTY	NEW CASTLE	DESIGNED BY:	SJS
		CHECKED BY:	CDW

**UTILITY RELOCATION PLAN**

UT-09	SHEET NO.	302
	TOTAL SHTS.	362

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-117	DP-G	228+27.9	1.4' LT	8.82'	3.89'	12 3/4" WRAPPED STEEL
TH-190	--	305+02.4	36.9' RT	7.43'	6.89'	36" ROUGH POUR CONCRETE STORM LINE

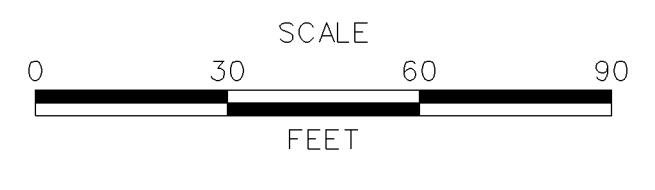
- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - CONTRACTOR SHALL INSTALL BENZENE RESISTANT GASKETS FOR THE WATER LINE IN SHIPYARD DRIVE AND SOUTH MADISON STREET FROM STA. 223+00 TO STA. 228+50. COST TO BE INCLUDED IN ITEM 614508, WATER MAIN AND ACCESSORIES.



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ADDENDUMS / REVISIONS	
△	ADDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, CDW 5/18/18



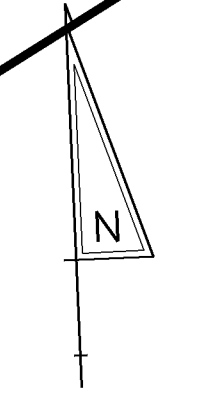
**CHRISTINA RIVER BRIDGE APPROACHES**

CONTRACT	T200512102	BRIDGE NO.	1-691
COUNTY	NEW CASTLE	DESIGNED BY:	SJS
		CHECKED BY:	CDW

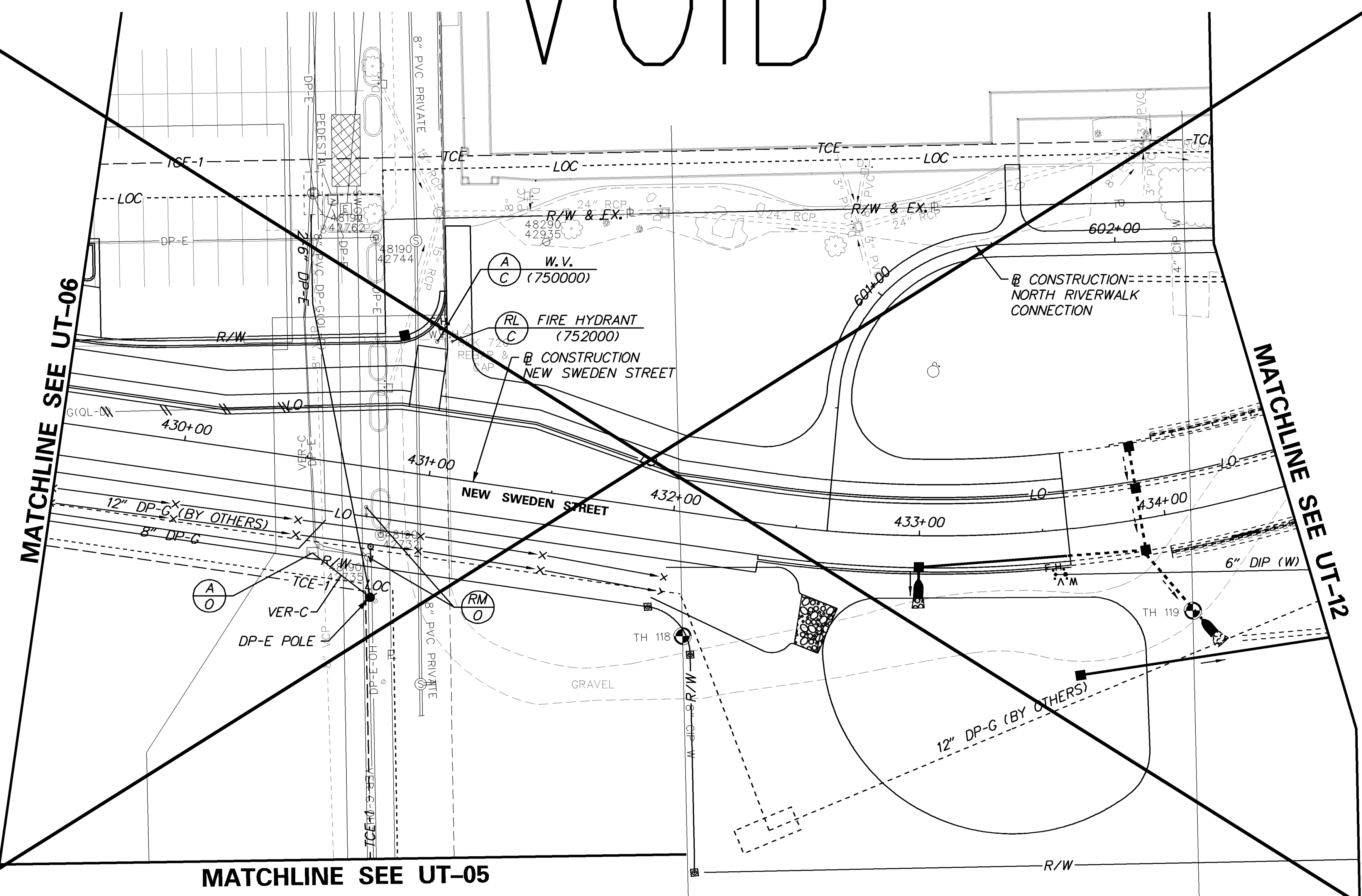
**UTILITY RELOCATION PLAN**

<b>UT-09</b>
SHEET NO.
302A
TOTAL SHTS.
362

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-118	CW-W	432+10.7	49.8' RT	12.05'	5.51'	9" CAST IRON
TH-119	CW-W	434+03.7	40.2' RT	10.94'	4.53'	(1) 5" CAST IRON AND (1) 3" UNKNOWN



# VOID

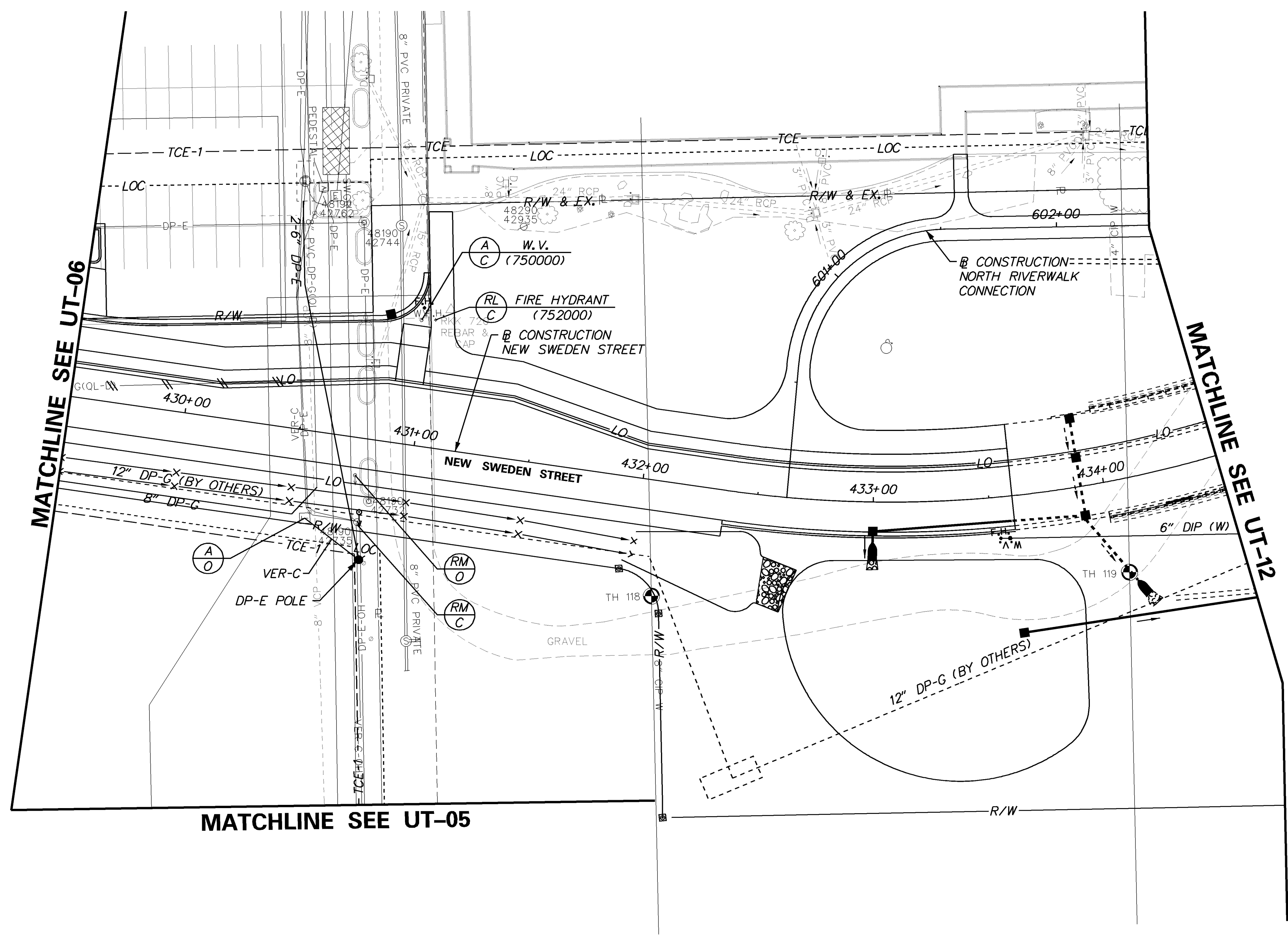


**NOTE:**  
1. CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.

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UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-118	CW-W	432+10.7	49.8' RT	12.05'	5.51'	9" CAST IRON
TH-119	CW-W	434+03.7	40.2' RT	10.94'	4.53'	(1) 5" CAST IRON AND (1) 3" UNKNOWN



**NOTE:**  
1. CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.

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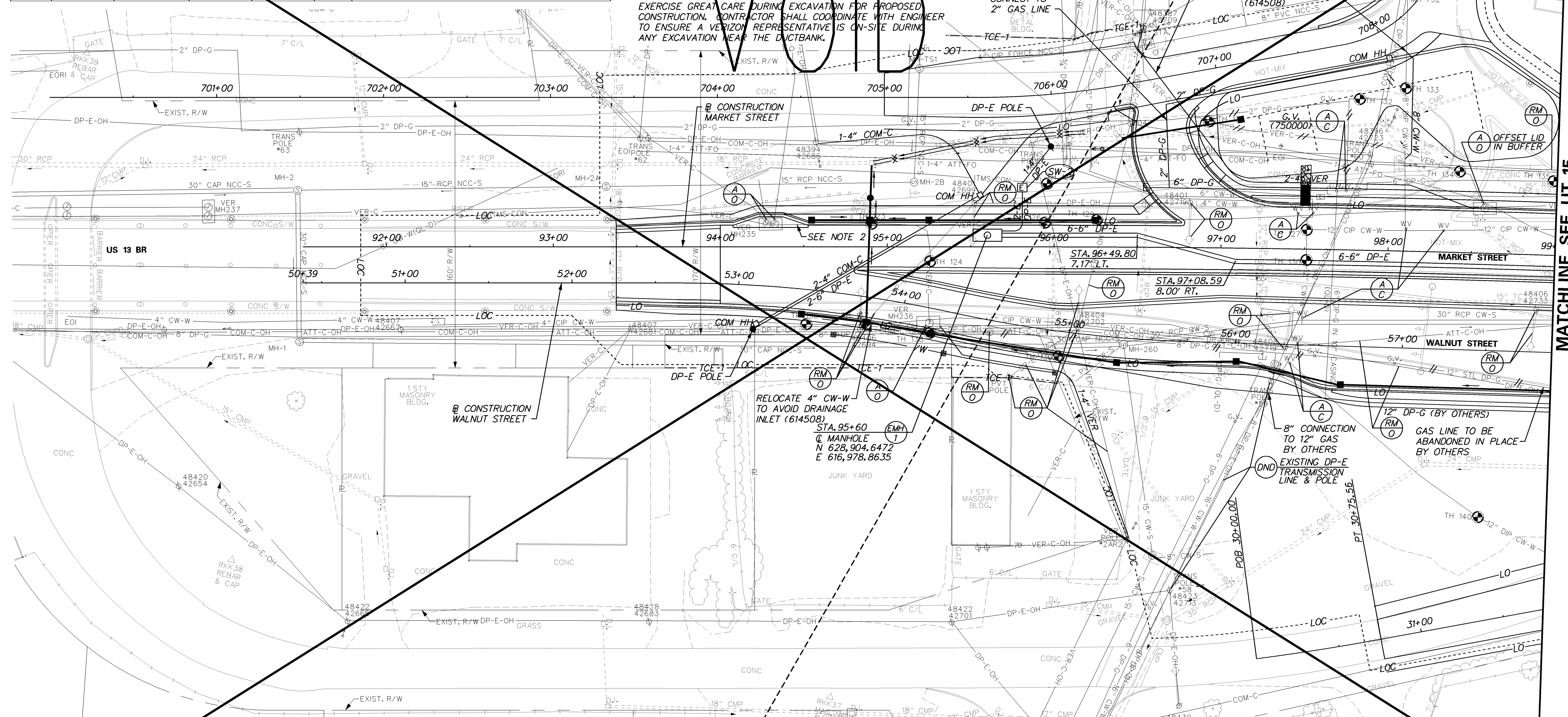
**DELMARVA SWITCHGEAR & TRANSFORMER  
CENTRE STAKEOUT DATA**

NO.	NORTHING	EASTING
SW-2	628924.1543	616949.3748

- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - EXISTING VERIZON DUCTBANK TO REMAIN. CONTRACTOR SHALL EXERCISE GREAT CARE DURING EXCAVATION FOR PROPOSED CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO ENSURE A VERIZON REPRESENTATIVE IS ON-SITE DURING ANY EXCAVATION NEAR THE DUCTBANK.

**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-123	VER-C	94+90.7	13.9' LT	5.38'	5.75'	1.08' WIDE TERRA COTTA DUCT
TH-124	VER-C	95+25.7	8.6' RT	5.19'	4.08'	0.42' X 0.68' TERRA COTTA DUCT
TH-126	VER-C	95+94.6	14.6' LT	3.93'	3.46'	4.0' WIDE PROTECTIVE STEEL PLATE
TH-127	CW-W	97+51.2	11.6' LT	4.24'	3.97'	13" CAST IRON TEE
TH-128	ITMS-CON	95+95.8	37.9' LT	4.37'	1.47'	4 1/2" PLASTIC
TH-129	VER-C	96+25.7	16.4' LT	3.70'	3.61'	4.0' WIDE PROTECTIVE STEEL PLATE
TH-130	CW-W	97+51.2	6.5' RT	4.48'	4.01'	13" CAST IRON
TH-131	VER-C	96+92.1	75.8' LT	5.08'	2.52'	(2) 4 1/2" PLASTIC
TH-132	DP-G	97+81.4	90.5' LT	5.70'	2.84'	2 1/2" PLASTIC
TH-133	CW-W	98+08.6	97.6' LT	4.55'	2.75'	8" DUCTILE IRON



**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-134	VER-C	98+41.8	48.5' LT	4.31'	1.84'	(2) 4 1/2" PLASTIC
TH-135	DP-G	98+97.9	44.4' LT	5.04'	3.10'	6 3/4" PLASTIC
TH-136	CW-W	53+42.7	20.7' RT	5.74'	3.94'	5" CAST IRON
TH-137	CW-W	53+78.9	16.6' RT	5.65'	3.96'	5" CAST IRON
TH-138	DP-G	54+18.3	14.7' RT	4.67'	3.93'	9" COATED CAST IRON
TH-139	VER-C	54+95.7	15.0' RT	3.75'	4.14'	0.75' X 0.33' TERRA COTTA DUCT
TH-140	CW-W	57+48.3	99.8' RT	3.36'	4.87'	12" DUCTILE IRON

**DELAWARE  
DEPARTMENT OF TRANSPORTATION**

VOIDED SHEET - ADDED REMOVAL  
OF WOOD POLE ITEM TO CONTRACT,  
SEE SHEET 307A, CDW 5/18/18

SCALE

FEET

**CHRISTINA RIVER BRIDGE  
APPROACHES**

CONTRACT	T200512102
COUNTY	NEW CASTLE

BRIDGE NO.	1-691
DESIGNED BY:	SJS
CHECKED BY:	CDW

**UTILITY RELOCATION PLAN**

SHEET NO.	307
TOTAL SHTS.	362

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MATCHLINE SEE UT-15

MATCHLINE SEE UT-13

UT-14



### DELMARVA SWITCHGEAR & TRANSFORMER CENTRE STAKEOUT DATA

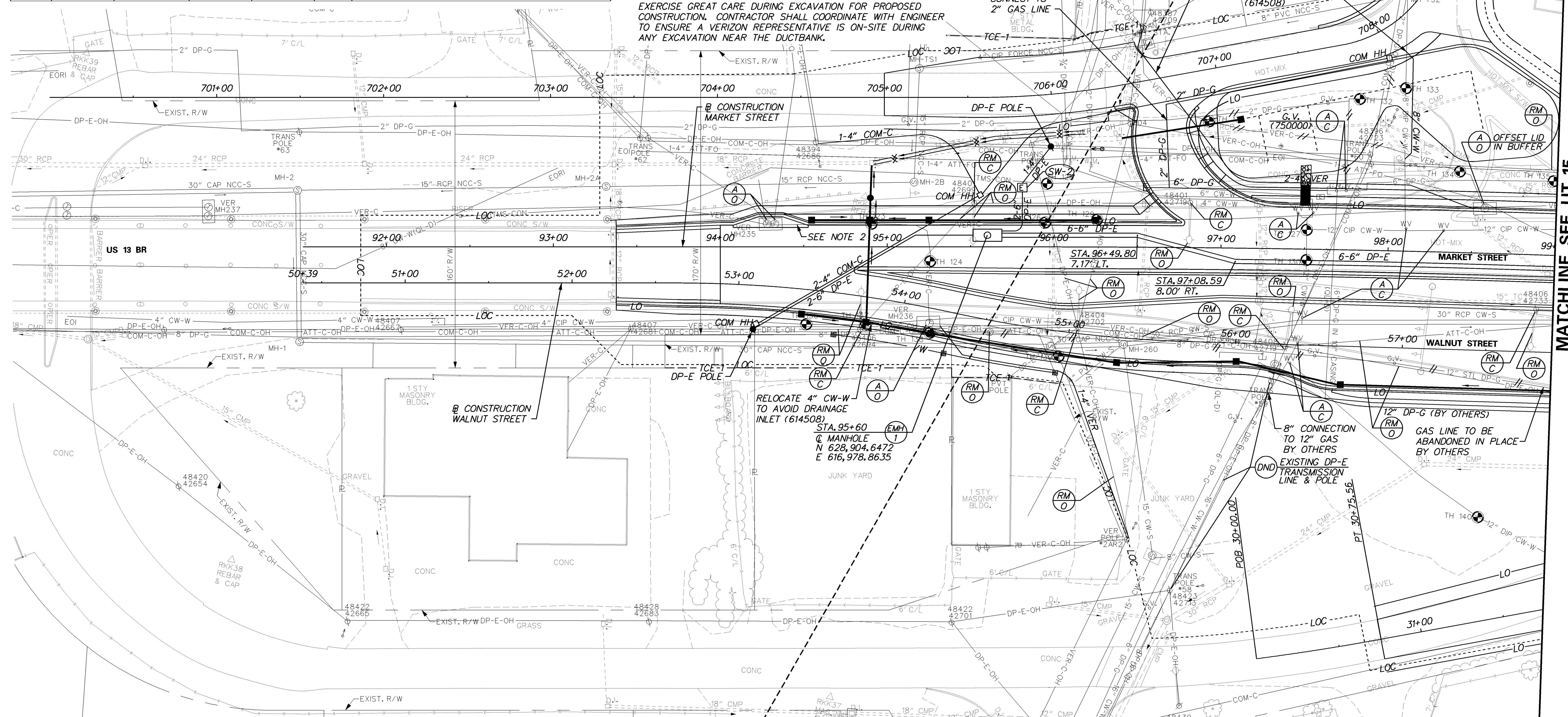
NO.	NORTHING	EASTING
SW-2	628924.1543	616949.3748

**NOTES:**

- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
- EXISTING VERIZON DUCTBANK TO REMAIN. CONTRACTOR SHALL EXERCISE GREAT CARE DURING EXCAVATION FOR PROPOSED CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH ENGINEER TO ENSURE A VERIZON REPRESENTATIVE IS ON-SITE DURING ANY EXCAVATION NEAR THE DUCTBANK.

### UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-123	VER-C	94+90.7	13.9' LT	5.38'	5.75'	1.08' WIDE TERRA COTTA DUCT
TH-124	VER-C	95+25.7	8.6' RT	5.19'	4.08'	0.42' X 0.68' TERRA COTTA DUCT
TH-126	VER-C	95+94.6	14.6' LT	3.93'	3.46'	4.0' WIDE PROTECTIVE STEEL PLATE
TH-127	CW-W	97+51.2	11.6' LT	4.24'	3.97'	13" CAST IRON TEE
TH-128	ITMS-CON	95+95.8	37.9' LT	4.37'	1.47'	4 1/2" PLASTIC
TH-129	VER-C	96+25.7	16.4' LT	3.70'	3.61'	4.0' WIDE PROTECTIVE STEEL PLATE
TH-130	CW-W	97+51.2	6.5' RT	4.48'	4.01'	13" CAST IRON
TH-131	VER-C	96+92.1	75.8' LT	5.08'	2.52'	(2) 4 1/2" PLASTIC
TH-132	DP-G	97+81.4	90.5' LT	5.70'	2.84'	2 1/2" PLASTIC
TH-133	CW-W	98+08.6	97.6' LT	4.55'	2.75'	8" DUCTILE IRON

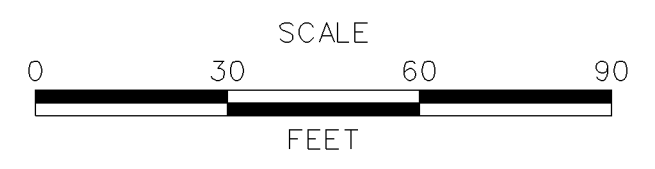


### UTILITY TEST HOLE SCHEDULE

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O.D. & MATERIAL
TH-134	VER-C	98+41.8	48.5' LT	4.31'	1.84'	(2) 4 1/2" PLASTIC
TH-135	DP-G	98+97.9	44.4' LT	5.04'	3.10'	6 3/4" PLASTIC
TH-136	CW-W	53+42.7	20.7' RT	5.74'	3.94'	5" CAST IRON
TH-137	CW-W	53+78.9	16.6' RT	5.65'	3.96'	5" CAST IRON
TH-138	DP-G	54+18.3	14.7' RT	4.67'	3.93'	9" COATED CAST IRON
TH-139	VER-C	54+95.7	15.0' RT	3.75'	4.14'	0.75' X 0.33' TERRA COTTA DUCT
TH-140	CW-W	57+48.3	99.8' RT	3.36'	4.87'	12" DUCTILE IRON

ADDENDUMS / REVISIONS

1	ADDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, CDW 5/18/18
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## CHRISTINA RIVER BRIDGE APPROACHES

CONTRACT	T200512102	BRIDGE NO.	1-691
COUNTY	NEW CASTLE	DESIGNED BY:	SJS
		CHECKED BY:	CDW

### UTILITY RELOCATION PLAN

SHEET NO.	307A
TOTAL SHTS.	362

UT-14

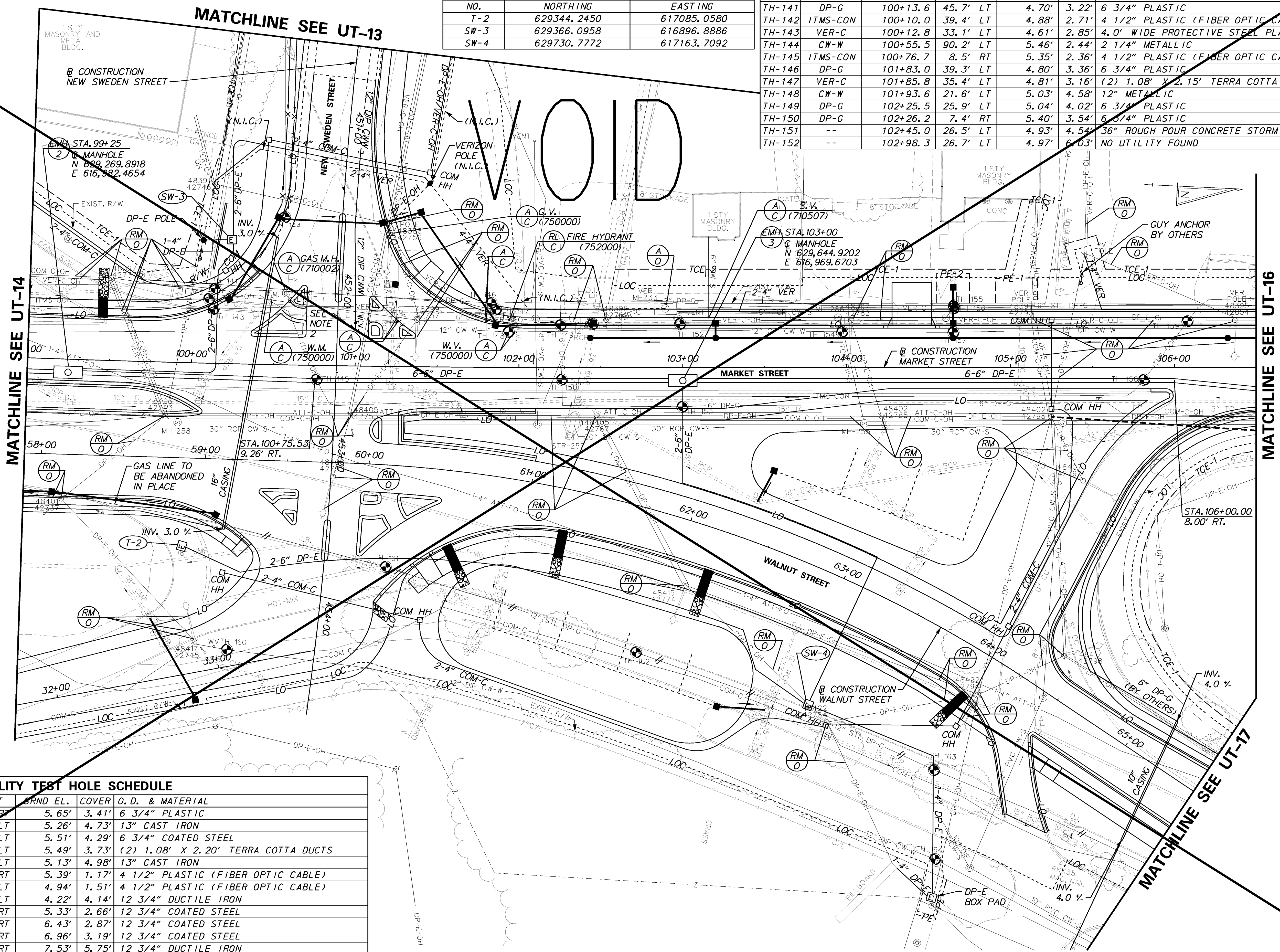
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**DELMARVA SWITCHGEAR & TRANSFORMER  
C STAKEOUT DATA**

NO.	NORTHING	EASTING
T-2	629344.2450	617085.0580
SW-3	629366.0958	616896.8886
SW-4	629730.7772	617163.7092

**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-141	DP-G	100+13.6	45.7' LT	4.70'	3.22'	6 3/4" PLASTIC
TH-142	ITMS-CON	100+10.0	39.4' LT	4.88'	2.71'	4 1/2" PLASTIC (FIBER OPTIC CABLE)
TH-143	VER-C	100+12.8	33.1' LT	4.61'	2.85'	4.0' WIDE PROTECTIVE STEEL PLATE
TH-144	CW-W	100+55.5	90.2' LT	5.46'	2.44'	2 1/4" METALLIC
TH-145	ITMS-CON	100+76.7	8.5' RT	5.35'	2.36'	4 1/2" PLASTIC (FIBER OPTIC CABLE)
TH-146	DP-G	101+83.0	39.3' LT	4.80'	3.36'	6 3/4" PLASTIC
TH-147	VER-C	101+85.8	35.4' LT	4.81'	3.16'	(2) 1.08' X 2.15' TERRA COTTA DUCTS
TH-148	CW-W	101+93.6	21.6' LT	5.03'	4.58'	12" METALLIC
TH-149	DP-G	102+25.5	25.9' LT	5.04'	4.02'	6 3/4" PLASTIC
TH-150	DP-G	102+26.2	7.4' RT	5.40'	3.54'	6 3/4" PLASTIC
TH-151	--	102+45.0	26.5' LT	4.93'	4.54'	36" ROUGH POUR CONCRETE STORM PIPE
TH-152	--	102+98.3	26.7' LT	4.97'	6.03'	NO UTILITY FOUND



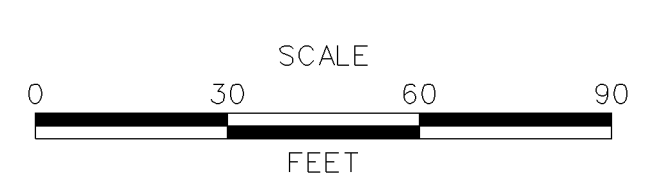
- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - CONNECT TO EXISTING WATER MAIN WITH AN 12" X 12" MECHANICAL JOINT TAPPING SLEEVE AND VALVE WITH BOX. PROVIDE STANDARD CONCRETE BUTTRESS BEHIND SLEEVE.

**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-153	DP-G	102+99.8	23.9' RT	5.65'	3.41'	6 3/4" PLASTIC
TH-154	CW-W	103+97.3	21.8' LT	5.26'	4.73'	13" CAST IRON
TH-155	DP-G	104+65.6	37.9' LT	5.51'	4.29'	6 3/4" COATED STEEL
TH-156	VER-C	104+65.7	36.1' LT	5.49'	3.73'	(2) 1.08' X 2.20' TERRA COTTA DUCTS
TH-157	CW-W	104+85.2	21.5' LT	5.13'	4.98'	13" CAST IRON
TH-158	ITMS-CON	105+81.5	7.5' RT	5.39'	1.17'	4 1/2" PLASTIC (FIBER OPTIC CABLE)
TH-159	ITMS-CON	106+08.0	28.2' LT	4.94'	1.51'	4 1/2" PLASTIC (FIBER OPTIC CABLE)
TH-160	CW-W	454+10.3	45.0' LT	4.22'	4.14'	12 3/4" DUCTILE IRON
TH-161	DP-G	60+14.4	62.1' RT	5.33'	2.66'	12 3/4" COATED STEEL
TH-162	DP-G	61+90.7	86.6' RT	6.43'	2.87'	12 3/4" COATED STEEL
TH-163	DP-G	64+09.0	77.0' RT	6.96'	3.19'	12 3/4" COATED STEEL
TH-164	CW-W	64+42.1	122.3' RT	7.53'	5.75'	12 3/4" DUCTILE IRON

ADDENDUMS / REVISIONS

VOIDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, SEE SHEET 308A, CDW 5/18/18



**CHRISTINA RIVER BRIDGE  
APPROACHES**

CONTRACT	BRIDGE NO.	1-691
T200512102	DESIGNED BY:	SJS
NEW CASTLE	CHECKED BY:	CDW

**UTILITY RELOCATION PLAN**

SHEET NO.	308
TOTAL SHTS.	362

UT-15

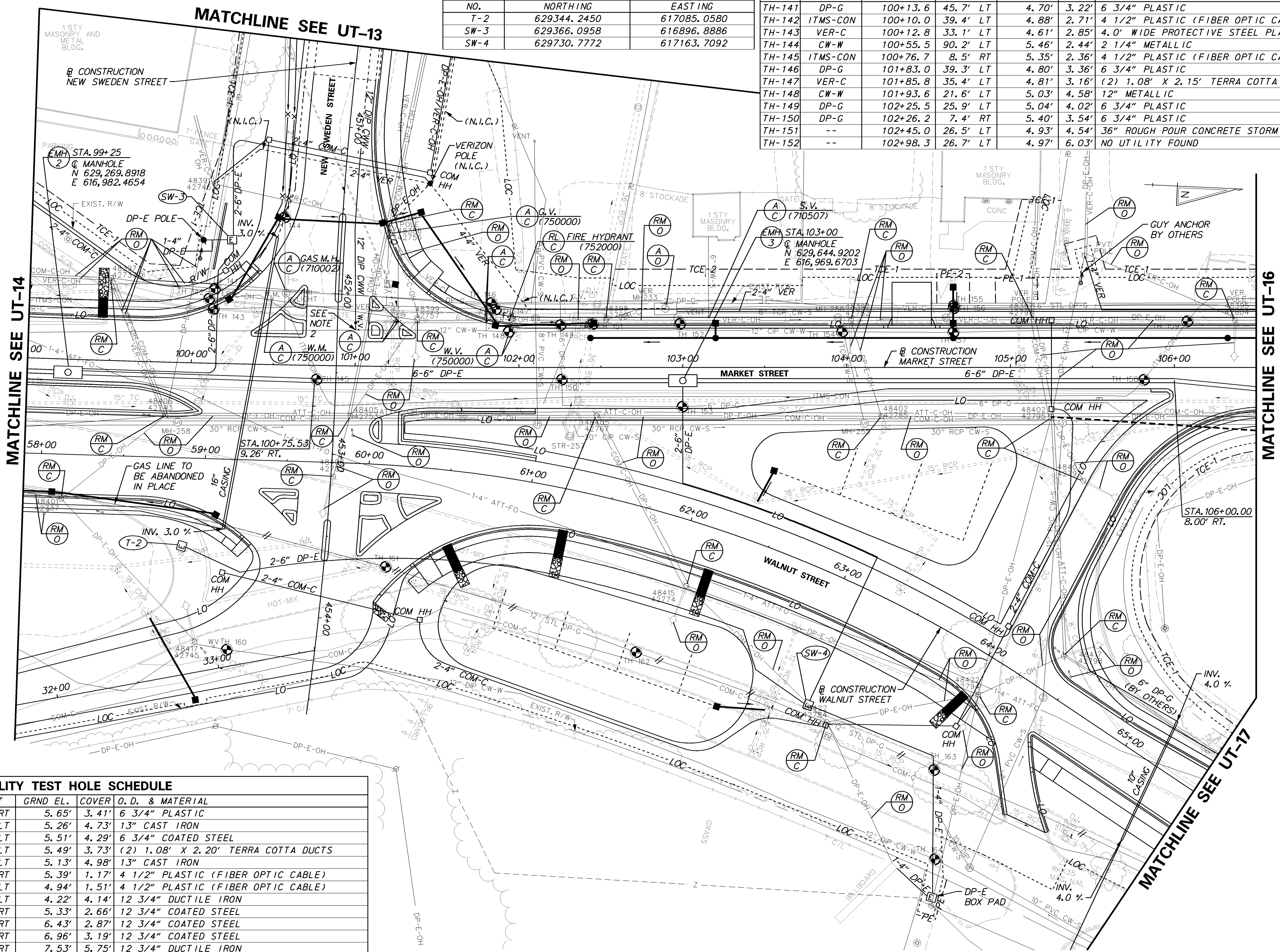
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**DELMARVA SWITCHGEAR & TRANSFORMER  
STAKEOUT DATA**

NO.	NORTHING	EASTING
T-2	629344.2450	617085.0580
SW-3	629366.0958	616896.8886
SW-4	629730.7772	617163.7092

**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-141	DP-G	100+13.6	45.7' LT	4.70'	3.22'	6 3/4" PLASTIC
TH-142	ITMS-CON	100+10.0	21.8' LT	4.88'	2.71'	4 1/2" PLASTIC (FIBER OPTIC CABLE)
TH-143	VER-C	100+12.8	33.1' LT	4.61'	2.85'	4.0' WIDE PROTECTIVE STEEL PLATE
TH-144	CW-W	100+55.5	90.2' LT	5.46'	2.44'	2 1/4" METALLIC
TH-145	ITMS-CON	100+76.7	8.5' RT	5.35'	2.36'	4 1/2" PLASTIC (FIBER OPTIC CABLE)
TH-146	DP-G	101+83.0	39.3' LT	4.80'	3.36'	6 3/4" PLASTIC
TH-147	VER-C	101+85.8	35.4' LT	4.81'	3.16'	(2) 1.08' X 2.15' TERRA COTTA DUCTS
TH-148	CW-W	101+93.6	21.6' LT	5.03'	4.58'	12" METALLIC
TH-149	DP-G	102+25.5	25.9' LT	5.04'	4.02'	6 3/4" PLASTIC
TH-150	DP-G	102+26.2	7.4' RT	5.40'	3.54'	6 3/4" PLASTIC
TH-151	--	102+45.0	26.5' LT	4.93'	4.54'	36" ROUGH POUR CONCRETE STORM PIPE
TH-152	--	102+98.3	26.7' LT	4.97'	6.03'	NO UTILITY FOUND



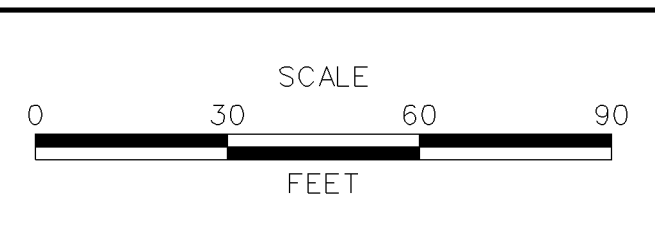
- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - CONNECT TO EXISTING WATER MAIN WITH AN 12" X 12" MECHANICAL JOINT TAPPING SLEEVE AND VALVE WITH BOX. PROVIDE STANDARD CONCRETE BUTTRESS BEHIND SLEEVE.

**UTILITY TEST HOLE SCHEDULE**

NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-153	DP-G	102+99.8	23.9' RT	5.65'	3.41'	6 3/4" PLASTIC
TH-154	CW-W	103+97.3	21.8' LT	5.26'	4.73'	13" CAST IRON
TH-155	DP-G	104+65.6	37.9' LT	5.51'	4.29'	6 3/4" COATED STEEL
TH-156	VER-C	104+65.3	36.1' LT	5.49'	3.73'	(2) 1.08' X 2.20' TERRA COTTA DUCTS
TH-157	CW-W	104+65.2	21.5' LT	5.13'	4.98'	13" CAST IRON
TH-158	ITMS-CON	105+81.5	7.5' RT	5.39'	1.17'	4 1/2" PLASTIC (FIBER OPTIC CABLE)
TH-159	ITMS-CON	106+08.0	28.2' LT	4.94'	1.51'	4 1/2" PLASTIC (FIBER OPTIC CABLE)
TH-160	CW-W	454+10.3	45.0' LT	4.22'	4.14'	12 3/4" DUCTILE IRON
TH-161	DP-G	60+14.4	62.1' RT	5.33'	2.66'	12 3/4" COATED STEEL
TH-162	DP-G	61+90.7	86.6' RT	6.43'	2.87'	12 3/4" COATED STEEL
TH-163	DP-G	64+09.0	77.0' RT	6.96'	3.19'	12 3/4" COATED STEEL
TH-164	CW-W	64+42.1	122.3' RT	7.53'	5.75'	12 3/4" DUCTILE IRON

ADDENDUMS / REVISIONS

△ ADDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, CDW 5/18/18



**CHRISTINA RIVER BRIDGE  
APPROACHES**

CONTRACT	BRIDGE NO.	1-691
T200512102	DESIGNED BY:	SJS
COUNTY	CHECKED BY:	CDW
NEW CASTLE		

**UTILITY RELOCATION PLAN**

**UT-15**

SHEET NO.	308A
TOTAL SHTS.	362

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DELMARVA SWITCHGEAR & TRANSFORMER STAKEOUT DATA		
NO.	NORTHING	EASTING
SW-5	630004.1024	616902.1044
SW-6	630028.5625	616983.6531
T-3	630296.2266	616889.4568
T-4	630305.8823	616888.9960
T-5	630038.2183	616983.1923
T-6	630047.8740	616982.7315

- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITEMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - RELOCATE 12" CW-W TO AVOID DRAINAGE INLET (614508).

UTILITY TEST HOLE SCHEDULE							
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL	
1	CW-W	112+28.38	27.31' RT	4.91'	5.14'	1 1/2" COPPER	
7	CW-W	114+74.57	22.15' LT	4.27'	3.63'	13" CAST IRON	
8	EX-CON	114+91.17	41.87' LT	5.02'	2.33'	4 1/2" PLASTIC FIBER OPTIC CONDUIT (DOT)	
60	CW-W	110+24.39	14.69' RT	6.23'	4.23'	1" COPPER	
61	CW-W	111+66.26	14.56' RT	5.59'	4.14'	8 3/4" DUCTILE IRON	
62	DP-G	111+75.52	29.73' RT	5.28'	2.97'	6 1/2" PLASTIC	
63	CW-W	112+28.77	14.29' RT	4.83'	4.56'	1 1/2" COPPER	
64	CW-W	113+25.78	33.26' RT	4.82'	3.79'	1 1/2" COPPER	
65	CW-W	113+34.11	14.03' RT	4.79'	4.10'	9" CAST IRON	
66	DP-G	114+31.95	29.10' RT	4.33'	3.36'	6 1/2" PLASTIC	
67	DP-G	114+93.54	29.72' RT	4.10'	3.20'	6 1/2" PLASTIC	
68	CW-W	111+75.53	22.57' LT	4.84'	3.94'	13" CAST IRON	
69	EX-CON	114+08.22	40.57' LT	5.11'	1.52'	4 1/2" PLASTIC FIBER OPTIC CONDUIT (DOT)	
70	CW-W	114+12.51	22.42' LT	4.36'	3.45'	13" CAST IRON	
TH-165	DP-G	106+69.4	38.0' LT	5.75'	4.75'	6 3/4" COATED STEEL	
TH-166	CW-S	107+36.1	41.7' LT	5.25'	2.76'	6 1/2" PLASTIC	
TH-167	CW-W	107+99.1	22.6' LT	5.10'	3.98'	13" CAST IRON	
TH-168	CW-W	109+41.5	22.2' LT	5.64'	4.31'	13" CAST IRON	
TH-169	VER-C	109+94.6	34.7' LT	5.72'	3.23'	(2) 1.08' X 2.15' TERRA COTTA DUCTS	
TH-170	VER-C	110+31.2	34.9' LT	5.97'	3.01'	(2) 1.08' X 2.07' TERRA COTTA DUCTS	
TH-171	CW-W/ITMS	110+39.0	32.8' LT	5.95'	2.31'	1" COPPER W/L & 4 1/2" PLASTIC CONDUIT	
TH-172	CW-W	110+32.9	22.1' LT	5.95'	3.73'	13" CAST IRON	
TH-173	DP-G	110+55.7	9.2' LT	6.26'	2.79'	(2) 1" PLASTIC	
TH-174	CW-W	110+71.3	22.7' LT	6.13'	4.06'	13" CAST IRON	
TH-175	VER-C	110+71.2	35.2' LT	6.11'	3.63'	(2) 1.08' X 2.13' TERRA COTTA DUCTS	
TH-176	CW-W	111+67.8	7.0' LT	6.91'	6.21'	8 3/4" DUCTILE IRON	
TH-177	VER-C	111+74.0	7.0' LT	6.95'	4.03'	(4) 4 1/2" PLASTIC CONDUITS	

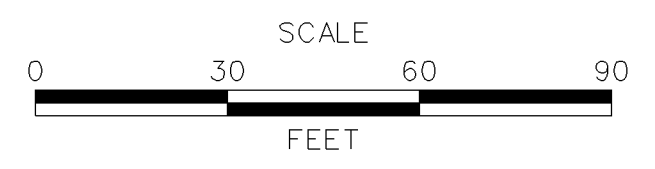


UTILITY TEST HOLE SCHEDULE							
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL	
TH-178	DP-G	106+87.9	31.2' RT	5.89'	3.21'	6 3/4" PLASTIC	
TH-179	CW-S	107+53.1	37.9' RT	4.91'	4.59'	10 1/2" TERRA COTTA	
TH-180	CW-W	107+66.1	38.3' RT	5.16'	3.82'	1 1/2" COPPER	
TH-181	CW-W	107+78.0	13.7' RT	5.47'	5.36'	9" CAST IRON	
TH-182	CW-W	108+51.1	13.8' RT	5.76'	4.00'	1" COPPER	
TH-183	CW-W	108+50.0	29.3' RT	5.50'	4.75'	1" COPPER	
TH-184	DP-G	109+40.8	29.9' RT	5.61'	3.27'	6 3/4" PLASTIC	
TH-185	CW-S	109+77.5	39.6' RT	5.82'	3.64'	4 1/2" PLASTIC	
TH-186	CW-W	109+77.5	36.3' RT	5.61'	2.18'	1" COPPER	
TH-187	CW-W	109+79.0	13.8' RT	5.99'	4.49'	1" COPPER	
TH-188	VER-C	110+46.6	26.0' RT	5.74'	2.73'	(2) 4 1/2" PLASTIC CONDUITS	

MATCHLINE SEE UT-15

UT-16  
SHEET NO. 309  
TOTAL SHTS. 362

ADDENDUMS / REVISIONS  
 VOIDED SHEET - ADDED REMOVAL OF WOOD POLE ITEM TO CONTRACT, SEE SHEET 309A, CDW 5/18/18



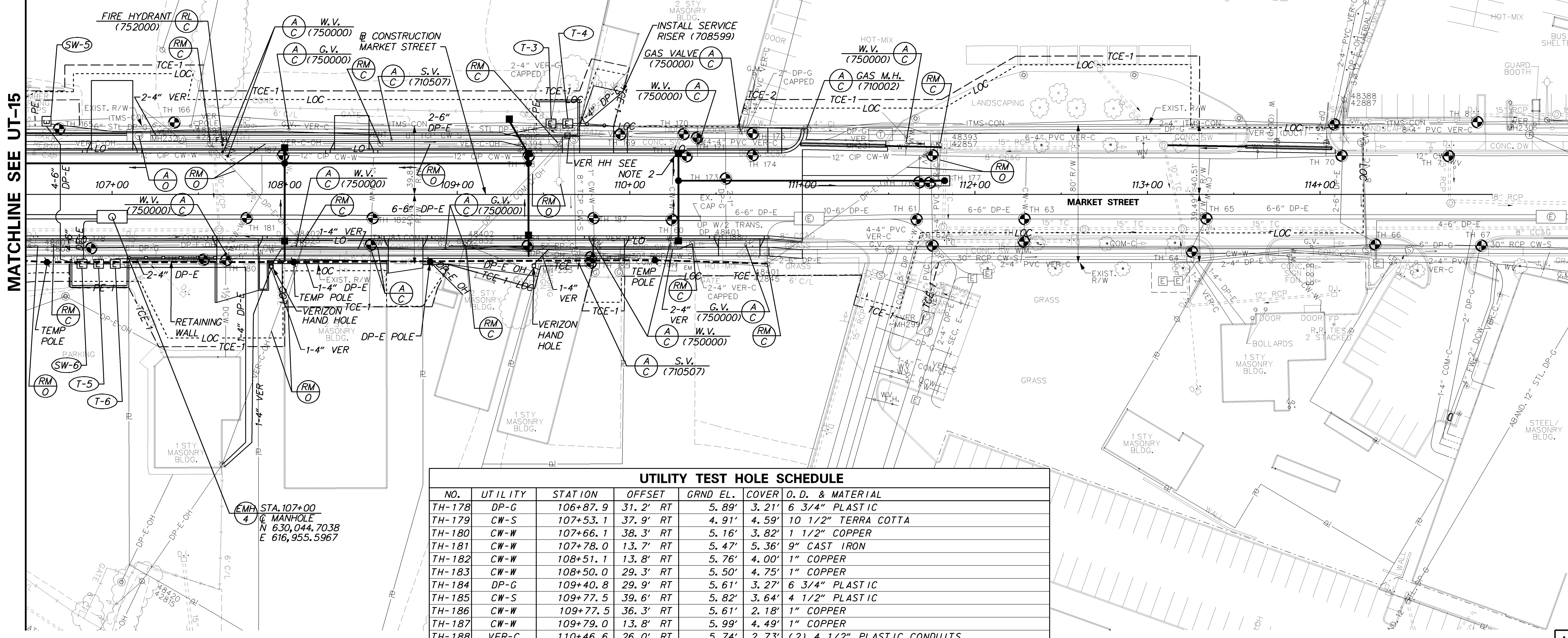
CONTRACT	T200512102	BRIDGE NO.	1-691
COUNTY	NEW CASTLE	DESIGNED BY:	SJS
		CHECKED BY:	CDW

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DELMARVA SWITCHGEAR & TRANSFORMER STAKEOUT DATA		
NO.	NORTHING	EASTING
SW-5	630004.1024	616902.1044
SW-6	630028.5625	616983.6531
T-3	630296.2266	616889.4568
T-4	630305.8823	616888.9960
T-5	630038.2183	616983.1923
T-6	630047.8740	616982.7315

- NOTES:**
- CONTRACTOR SHALL CONTACT DELDOT SIGNAL CONSTRUCTION MANAGER PRIOR TO ITMS PATHWAY IMPACTS, CONFLICTS, OR NEEDED ADJUSTMENTS. ALL DISCONNECTION, RECONNECTION, AND ALL PULLING OF FIBER OPTIC CABLE SHALL BE COMPLETED BY DELDOT FORCES.
  - RELOCATE 12" CW-W TO AVOID DRAINAGE INLET (614508).

UTILITY TEST HOLE SCHEDULE							
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL	
1	CW-W	112+28.38	27.31' RT	4.91'	5.14'	1 1/2" COPPER	
7	CW-W	114+74.57	22.15' LT	4.27'	3.63'	13" CAST IRON	
8	EX-CON	114+91.17	41.87' LT	5.02'	2.33'	4 1/2" PLASTIC FIBER OPTIC CONDUIT (DOT)	
60	CW-W	110+24.39	14.69' RT	6.23'	4.23'	1" COPPER	
61	CW-W	111+66.26	14.56' RT	5.59'	4.14'	8 3/4" DUCTILE IRON	
62	DP-G	111+75.52	29.73' RT	5.28'	2.97'	6 1/2" PLASTIC	
63	CW-W	112+28.77	14.29' RT	4.83'	4.56'	1 1/2" COPPER	
64	CW-W	113+25.78	33.26' RT	4.82'	3.79'	1 1/2" COPPER	
65	CW-W	113+34.11	14.03' RT	4.79'	4.10'	9" CAST IRON	
66	DP-G	114+31.95	29.10' RT	4.33'	3.36'	6 1/2" PLASTIC	
67	DP-G	114+93.54	29.72' RT	4.10'	3.20'	6 1/2" PLASTIC	
68	CW-W	111+75.53	22.57' LT	4.84'	3.94'	13" CAST IRON	
69	EX-CON	114+08.22	40.57' LT	5.11'	1.52'	4 1/2" PLASTIC FIBER OPTIC CONDUIT (DOT)	
70	CW-W	114+12.51	22.42' LT	4.36'	3.45'	13" CAST IRON	
TH-165	DP-G	106+69.4	38.0' LT	5.75'	4.75'	6 3/4" COATED STEEL	
TH-166	CW-S	107+36.1	41.7' LT	5.25'	2.76'	6 1/2" PLASTIC	
TH-167	CW-W	107+99.1	22.6' LT	5.10'	3.98'	13" CAST IRON	
TH-168	CW-W	109+41.5	22.2' LT	5.64'	4.31'	13" CAST IRON	
TH-169	VER-C	109+94.6	34.7' LT	5.72'	3.23'	(2) 1.08' X 2.15' TERRA COTTA DUCTS	
TH-170	VER-C	110+31.2	34.9' LT	5.97'	3.01'	(2) 1.08' X 2.07' TERRA COTTA DUCTS	
TH-171	CW-W/ITMS	110+39.0	32.8' LT	5.95'	2.31'	1" COPPER W/L & 4 1/2" PLASTIC CONDUIT	
TH-172	CW-W	110+32.9	22.1' LT	5.95'	3.73'	13" CAST IRON	
TH-173	DP-G	110+55.7	9.2' LT	6.26'	2.79'	(2) 1" PLASTIC	
TH-174	CW-W	110+71.3	22.7' LT	6.13'	4.06'	13" CAST IRON	
TH-175	VER-C	110+71.2	35.2' LT	6.11'	3.63'	(2) 1.08' X 2.13' TERRA COTTA DUCTS	
TH-176	CW-W	111+67.8	7.0' LT	6.91'	6.21'	8 3/4" DUCTILE IRON	
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TH-188	VER-C	110+46.6	26.0' RT	5.74'	2.73'	(2) 4 1/2" PLASTIC CONDUITS	

MATCHLINE SEE UT-15

STA. 107+00  
MANHOLE  
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E 616,955.5967

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## UTILITY STATEMENT

MARCH 19, 2018

STATE CONTRACT # T200512102  
P3e# 04-00197  
F.A.P. # STP-N029(3)  
CHRISTINA RIVER BRIDGE APPROACHES  
NEW CASTLE COUNTY

The following utility companies maintain facilities within the project limits:

**AT&T**

City of Wilmington - Sanitary Sewer

City of Wilmington - Water

Comcast Cable of New Castle County

Delmarva Power & Light - Electric Distribution

Delmarva Power & Light - Electric Transmission

Delmarva Power & Light - Gas

New Castle County Department of Special Services - Sanitary Sewer

Verizon Delaware LLC

Utility adjustments and/or relocations shall be performed as narrated, but are not limited to the following:

**AT&T**

AT&T maintains aerial and underground facilities within the limits of Contract T200512102.

The Company shall perform all required utility relocations in advance of Contract T200512102. AT&T will utilize an existing AT&T CORE underground path to eliminate the existing aerial path that is affected by the construction of this project. The Company shall provide and install all necessary materials and will complete the necessary work themselves. The Company shall pull and splice all cables and make all connections necessary.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

**City of Wilmington - Sanitary Sewer**

The City maintains underground facilities within the limits of Contract T200512102.

The State's contractor shall perform the following relocations and adjustments:

Multiple sanitary manhole (32) and sanitary clean-out (17) adjustments required due to the proposed construction activities.

These adjustments and any relocations of City sewer facilities shall be performed by the State's contractor in accordance with the respective agencies' standard specifications as directed by the Engineer. The State contractor shall notify the City a minimum of seven (7) calendar days in advance of the State contractor performing any necessary facility adjustments.

**City of Wilmington - Water**

The City maintains underground facilities within the limits of Contract T200512102.

The State's contractor shall perform the following relocations and adjustments:

Multiple water valve adjustments (43) throughout the project required due to the proposed construction activities.

Multiple fire hydrant relocations (8), adjustments (3), and removals (2) throughout the project required due to the proposed construction activities.

Stadium Drive, Sta. 501+00 to Sta. 517+20: Construct 1,620 LF of new 8" DIP water main with two (2) fire hydrants. Connect to existing 8" water line at Sta. 517+00.

S. Madison Street, Sta. 202+07 to Sta. 207+17: Construct 510 LF of new 8" DIP water main with one (1) fire hydrant. Connect to existing 8" water line at Sta. 207+17.

S. Madison Street, Sta. 219+27 to Sta. 228+45: Construct 920 LF of new 8" DIP water main with three (3) fire hydrants. Connect to existing 8" water line at Sta. 219+27, and to the existing Beech Street stub at Sta. 228+45. Install benzene resistant gaskets from Sta. 223+00 to Sta. 228+45. Abandon existing 8" water main in existing Shipyard Drive from S. Madison Street to Justison Street.

Shipyard Drive, Sta. 300+12 to Sta. 305+52: Construct 540 LF of new 8" DIP water main with one (1) fire hydrant. Connect to existing 8" water line at Sta. 300+12, and to the new S. Madison Street line at Sta. 305+52. Install benzene resistant gaskets for this entire length of main.

New Sweden Street, Sta. 433+50 to existing Riverwalk stub constructed under Contract T201612101: Construct 166 LF of new 6" DIP water line to one (1) fire hydrant.

New Sweden Street, Sta. 451+15 to Sta. 452+24: Construct 110 LF of new 12" DIP water main, extending the water main constructed under Contract T201612101, and connecting to existing Market Street 12" water main.

Walnut Street, Sta. 53+79, rt.: Relocate vertically existing 4" water line as necessary to install proposed storm drain inlet and pipes.

Market Street, Sta. 98+10, Lt.: Relocate vertically existing 8" water line as necessary to install proposed bioretention facility.

Market Street, Sta. 110+28, Lt.: Relocate vertically existing 12" water line as necessary to install proposed storm drain inlet and pipes.

The relocations and/or adjustments of City water facilities described above shall be performed by the State's contractor in accordance with the respective agencies' standard specifications as directed by the Engineer. The State contractor shall notify the City a minimum of seven (7) calendar days in advance of the State contractor performing any necessary facility relocations and/or adjustments.

### **Comcast**

Comcast maintains aerial and underground facilities within the limits of Contract T200512102.

The utility work shall include, but not be limited to the following:

#### **1. Comcast's Responsibility:**

The Company shall provide and deliver to the project site all materials, including conduit, marking tape, and hand holes for the State's Contractor to install. Following installation of these materials by the State's Contractor, the Company will relocate the existing aerial cables into the conduit system, and shall pull and splice all cables and make all connections necessary.

There are (2) locations on Market Street that Comcast has overhead coax crossing the road, with service to businesses. These locations will require a handhole be placed by the State's Contractor, then Comcast will install service to the buildings via service risers.

Market Street locations:

Sta. 105+15, left – new underground service to building, was overhead  
Sta. 109+60, left – new underground service to building, was overhead

#### **2. State's Contractor Responsibility:**

The State's Contractor shall excavate the trench, install conduit, marking tape, and hand holes provided by Comcast, and backfill the trench per the trench detail on the plans and the Company's standard specifications, including stone in the bottom of the handholes. This includes a minimum cover requirement of 42", with marking tape installed 12" above the conduit.

The State's Contractor shall install the following Comcast line relocations:



Market Street, Sta. 94+20, rt. to Sta. 95+55, lt. – install two (2), 4” PVC conduits under Market Street from a new Delmarva Power & Electric pole (Sta. 94+20, rt.) to a new handhole (Sta. 95+55, lt.). From this new handhole, install one (1), 4” PVC conduit southward to existing utility pole #48394/42686 to be reconnected by Comcast to the existing aerial facilities.

Market Street, Sta. 95+55, lt. to Sta. 100+20, lt. – install two (2), 4” PVC conduits from the new handhole (Sta. 95+55, lt.) northward under the new roadway connection to James Court, just to the west of the new stormwater management facility, to a new handhole on top of the existing Comcast conduit (James Court Sta. 708+00, rt.), northeast to a new handhole (Sta. 100+20, lt.).

New Sweden Street, Sta. 451+95, rt. to Sta. 445+70, lt. – install two (2), 4” PVC conduits from the new handhole (Market Street Sta. 100+20, lt.) westward to a new handhole (Sta. 451+15, rt.), then southeast to existing utility pole #48391/42746 to be reconnected by Comcast to the existing aerial facilities. From the new handhole (Sta. 451+15, rt.), install two (2), 4” PVC conduits under New Sweden Street to a new handhole (Sta. 451+15, lt.), westward to a new handhole (Sta. 446+25, lt.), crossing East Bank Lane to a new handhole (Sta. 445+70, lt.).

Walnut Street, Sta. 59+10, rt. to Sta. 64+00, lt. - install two (2), 4” PVC conduits from a new handhole (Sta. 59+10, rt.), northward under New Sweden Street to a new handhole on top of the existing Comcast conduit (Sta. 60+35, rt.), then northward to the east of the new stormwater management facility, to a new handhole on top of the existing Comcast conduit (Sta. 63+25, rt.), northwest to a new handhole (Sta. 64+00, rt.). From this new handhole, install two (2), 4” PVC conduits under Walnut Street to a new handhole (Sta. 64+00, lt.).

Market Street, Sta. 105+25 - install two (2), 4” PVC conduits from the new handhole (Walnut Street Sta. 64+00, lt.) westward to a new handhole (Market Street Sta. 105+25, rt.). Install two (2), 4” PVC conduits under Market Street to a new handhole (Sta. 105+25, lt.).

#### **Company review of Field Changes**

Comcast maintains the right to approve any design changes submitted by the Engineer as well as the right to review any field changes that could impact the construction of the Comcast conduits.

Comcast will require twenty-five (25) calendar days to complete the proposed aerial relocation work and cabling into the conduit system. Comcast will require five (5) calendar days advance notice of completion of the conduit system, cut and fill stakes, staking rights of way, the completion of Delmarva Power & Light and AT&T work, and the Notice to Proceed before any work will start.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

**Delmarva Power & Light – Electric Distribution**

The aforementioned Company maintains aerial and underground facilities within the limits of Contract T200512102.

**NOTE: AT ALL SWITCHGEAR AND TRANSFORMER LOCATIONS, DELMARVA POWER WILL REQUIRE A TEN (10) FOOT CLEARANCE ON THE FRONT SIDE OF DEVICE, A THREE (3) FOOT CLEARANCE TO THE REAR OF DEVICE, AND A MINIMUM OF FOUR (4) FEET ON THE OTHER SIDES WITH NO OBSTRUCTIONS SUCH AS FENCE, WALL, SHRUBS AND ANY OTHER STRUCTURES.**

***Outages on the 12kv circuits will only be permitted as load, weather and other system conditions permit.***

The utility work shall include, but not be limited to the following:

**1. Delmarva Power & Light's Responsibility:**

Overhead Facilities: the Company will perform the following temporary and permanent overhead utility relocations:

Stadium Drive, Sta. 501+00, rt. to Sta. 503+80, lt. – remove existing overhead electric and poles, install two new poles (Sta. 501+60, lt. and Sta. 503+25, lt.) with cobrahead luminaires, and connect via overhead to existing utility pole #48133/42749.

Stadium Drive, Sta. 510+20, lt. to Sta. 512+07, lt. – remove existing overhead electric and poles, install one new pole (Sta. 511+35, lt.), and connect via overhead to existing private pole, billboard, and utility pole #48133/42805.

Stadium Drive, Sta. 517+60, lt. to Sta. 527+90, rt. – remove existing overhead electric and poles, install six new poles beyond lateral offset (Sta. 519+00, lt., Sta. 520+80, lt., Sta. 522+50, lt., Sta. 524+25, lt., Sta. 525+90, lt. and Sta. 526+25, lt.), and connect via overhead to existing utility pole #48129/42878, billboards, existing aerial and underground services, and existing utility pole #48158/42972.

Shipyard Drive, Sta. 301+60, rt. to Sta. 308+40, rt. – remove existing private overhead electric, cobrahead luminaires and poles.

Shipyard Drive, Sta. 306+35, lt. to Sta. 308+40, lt. – install three new private poles with cobrahead luminaires and connect via overhead to existing private pole.

S. Madison Street, Sta. 225+75 - remove existing private overhead electric and one pole.

S. Madison Street, Sta. 228+50, lt. – install new pole in line with existing overhead facilities, and remove existing overhead electric and one pole with cobrahead luminaire (#48218/42995).

S. Madison Street, Sta. 229+40, rt. – remove existing overhead electric and one pole with cobrahead luminaire (#48190/42735).

New Sweden Street, Sta. 430+80, rt. – install new pole in line with existing overhead facilities, and remove existing overhead electric and one pole.

Market Street, Sta. 105+25, rt. to Sta. 110+80, rt. – install temporary overhead electric relocation in advance of Phase 1 construction, utilizing higher poles to go over buildings.

Walnut Street, Sta. 74+25, lt. to Sta. 76+15, lt. – install aerial backfeed from existing utility pole #48468/42882 to existing utility pole #48478/42899.

Underground Facilities: Following installation of the manholes and conduit by the State's Contractor, the Company will relocate the existing aerial cables into the conduit system, and shall pull and splice all cables and make all connections necessary. The Company will remove designated switchgears, transformers, and private meters, and furnish and install all proposed switchgears, transformers, and private meters.

The Company proposes to relocate the one (1) existing aerial circuit on pole line and one (1) existing underground circuit in manhole/conduit system along Market Street from Sta. 94+00, rt. to Sta. 110+40, rt. The Company will be responsible for insuring that the manhole conduit system being constructed by the State's contractor is being built to the specifications and standards set by the Company. The Company will provide field inspection for quality assurance. The Company will be responsible for ordering primary and secondary cables, pad mount transformers / switchgears, splices and terminations required for relocation of existing aerial facilities into the underground duct bank and removal of the aerial pole lines. The Company reserves the right to give the Company's in-house cables crews the first option of pulling all associated cable through their conduit system. The Company will remove all Delmarva Power Electric cables from existing conduit system, remove all cables from the aerial facilities and remove the Company's poles upon completion of the new facilities.

## **2. State's Contractor Responsibility:**

The State's Contractor shall furnish and install all materials, including precast manholes, conduit, marking tape, hand holes, trench excavation and backfill per the trench detail on the plans and the Company's standard specifications, including stone in the bottom of the handholes. This includes a minimum cover requirement of 42", with marking tape installed 12" above the conduit.

The State's Contractor shall install the following Delmarva Power & Light line relocations:

Stadium Drive, Sta. 509+00 – install (2), 6" PVC conduits under Stadium Drive and cap for future use.

Stadium Drive, Sta. 516+00, rt. to Sta. 519+00, lt. – install (2), 6" PVC conduits from Transformer T-1 northward and under Stadium Drive to new utility pole.

Marsh Road, Sta. 3007+65, lt. to S. Madison Street, Sta. 203+00, lt. - install (2), 6" PVC conduits from existing conduit system, to Private Meter PM-1/ Switchgear SW-1, westward to new utility pole, and northward under Stadium Drive to tie into existing conduit system.

New Sweden Street, Sta. 430+40, lt. to Sta. 430+80, rt. – install (2), 6" PVC conduits from existing manhole southward and under New Sweden Street to new utility pole.

The State's Contractor shall adjust the following Delmarva Power & Light existing manholes to the proposed grade:

Stadium Drive, Sta. 532+50, rt.

Market Street, Sta. 94+00, rt. to Sta. 110+40, rt. - furnish and install a new (3 x 2, 6") manhole duct system (encased in concrete) as well as associated duct runs across Market Street to existing and future customers. The electric manhole with duct system must be installed in accordance with the Company's standards and specifications. Contractor will be responsible for furnishing all materials associated with underground system such as (manholes, conduits, spacers, etc.). The duct system must be installed by a company that is qualified in Delmarva Power Electric work, and must be approved by Delmarva Power Electric prior to any construction activities.

Market Street, Sta. 109+80, lt. - reinstall electric service to the building via service riser.

The State's contractor will provide the following: a level area accessible to the Company's construction vehicles, survey for the Company as required, an area accessible for maintenance during and post construction, as well as select, clearing and grubbing, and cuts and fills to within one foot (+/-).

**NOTE: DelDOT shall be responsible for any removal of contaminated fill or water. Select to be placed in these locations prior to Delmarva Power excavation. DelDOT will also provide monitoring agency.**

**Scheduling of outage and tie over for City of Wilmington Circuits:**

Overtime will be required in order to splice, terminate and tie new circuits into the Company's existing electrical system. This will include nights and weekend work. No

outages will be permitted during the months of July and August. Outages may be restricted in September in the event of hot weather.

**Company review of Field Changes:**

The Company maintains the right to approve any design changes submitted by the Engineer as well as the right to review any field changes that could impact the construction of the electric manhole duct system.

**Lead-Time for cable and associated materials (16-23 Weeks)**

The lead time to procure these materials could possibly increase due to the economic situation and suppliers eliminating shifts.

**NOTE: ESTIMATE DOES NOT INCLUDE COSTS FOR THE FOLLOWING:**

REMOVAL/ BLASTING OF ROCK, CLEARING AND GRUBBING, REMOVAL OF SPOILS FROM SITE, SELECT TO BE PROVIDED BY DELDOT, RESTORATION COST NOT INCLUDED, REMOVAL AND DISPOSAL OF ANY CONTAMINATED DIRT OR WATER, MAINTAINING EXISTING U.G. & AERIAL FACILITIES DURING ROAD CONSTRUCTION PHASE

Delmarva Power will require one hundred (100) calendar days to complete the proposed work following twenty-eight (28) calendar days advance notice of completion of the manhole duct system, clearing and grubbing, cuts and fills made, staking of rights of way and completion of the Utility Pre-Construction Meeting for this contract and the procurement of easements by DelDOT and receipt of "NTP".

**Proposed Service Point Locations for Lighting:**

- (1) The Company will furnish and install a pad mounted transformer to replace the existing 120/240V, single phase, pad mounted transformer #48133/42874, which will be impacted by construction. The existing transformer is fed from pole #48132/42890 and currently powers stadium parking lot lighting. The new transformer will power both parking lot lighting as well as roadway lighting along New Sweden Street and will be located at STA 516+03, 43 ft. RT. The State's Contractor will furnish and install all conduit from the transformer to the relocated utility pole on the west side of Stadium Drive. The Company will furnish and install all cable from the transformer to the relocated utility pole on the west side of Stadium Drive. DelDOT will furnish and install conduit and cables to the parking lot and roadway lighting systems. The parking lot lighting and roadway lighting will not be metered services. The Company will assist DelDOT in making the final connections from the lighting system at the transformer.

- (2) There is an existing 120/240V, single phase, pad mounted transformer (#48187/42942) at STA 304+00, 88 ft. RT. This transformer powers existing parking lot lighting. Due to construction impacts, a new connection between the parking lot lighting and the transformer will be required. Additionally, this transformer is proposed to power roadway lighting on Shipyard Drive, New Sweden Street, and S. Madison Street. DelDOT will furnish and install conduit and cables to the lighting system. The parking lot lighting and roadway lighting will not be metered services. The Company will assist DelDOT in making the final connections at the transformer.
- (3) There is an existing 120/240V, single phase, pad mounted transformer (#48203/429XX) at STA 220+34, 80 ft. RT. This transformer powers existing parking lot lighting. Due to construction impacts, a new connection between the parking lot lighting and the transformer will be required. Additionally, this transformer is proposed to power roadway lighting on S. Madison Street. DelDOT will furnish and install conduit and cables to the lighting system. The parking lot lighting and roadway lighting will not be metered services. The Company will assist DelDOT in making the final connections at the transformer.
- (4) The Company will install a 120/240V single phase transformer on existing pole #48190/42735 at STA 430+80, 41 ft. RT. to power the proposed roadway lighting on New Sweden Street and S. Madison Street. The State will be required to come to the pole. The Company will install the riser on the pole and make final connections.
- (5) The Company will install a 120/240V single phase transformer on relocated pole #48383/42758 at STA 450+14, 59 ft. LT. to power the proposed roadway lighting on New Sweden Street and US 13. Roadway lighting on New Sweden Street will be un-metered; therefore, the State will be required to come to the pole. Roadway lighting on US13 will be metered. The State's Contractor will furnish and install conduit from the service pedestal to the base of the pole. The Company will furnish and install cable from the service pedestal to the base of the pole. The Company will install the risers on the pole and make final connections.
- (6) There is an existing 120/240V, single phase transformer mounted on existing pole #48436/42830 at STA 68+23, 29 ft. LT. that powers roadway lighting (to remain). This transformer is proposed to power new, unmetered, shared-use path lighting along Walnut Street. DelDOT will furnish and install conduit and cables to the proposed shared-use path lighting. The State will be required to come to the pole. The Company will install the riser on the pole and make final connections.
- (7) There is an existing 120/240V, single phase, pad mounted transformer (#48519/42944) at STA 82+89, 79 ft. RT. This transformer is proposed to

provide service for shared-use path lighting along Walnut Street. DelDOT will furnish and install conduit and cables from the transformer to the proposed shared-use path lighting. The Company will assist DelDOT in making the final connections at the transformer.

- (8) The Company will require that DelDOT's contractor provide some type of disconnect for each run of roadway lights and unmetered electrical service by using a fuse or disconnect switch, as well as supply four (4) copies of as built drawings.
- (9) The Company will require that DelDOT's contractor provide a metered service pedestal and disconnect for the roadway lighting on US13.
- (10) DelDOT will be responsible for providing the Company with an application for lighting that will need to show how many lights and wattage of lights. On this same form, the DelDOT inspector will be required to signoff on lights that they meet lighting standards and code. All this needs to be done prior to Delmarva energizing the service point.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

#### **Delmarva Power & Light – Electric Transmission**

The aforementioned Company maintains aerial facilities within the limits of Contract T200512102 with no apparent conflicts with the proposed construction activities.

Due to roadway fill being placed adjacent to existing transmission pole #59 at Walnut Street Sta. 56+22, 22' Rt., the Company shall extend the corrocote coating upwards to protect the steel pole against corrosion prior to the State's Contractor placing the roadway fill.

Any relocations and/or adjustments to the aforementioned Company's existing facilities that may arise during construction will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

#### **Delmarva Power & Light - Gas**

The aforementioned Company maintains 2", 4" and 8" plastic and steel high pressure gas mains, along with a 12" steel transmission pressure gas main, within the limits of Contract T200512102.

#### **1. DP&L Gas' Responsibility:**

The Company shall furnish and install the following gas line relocations and adjustments:

Replace 500 LF of 4" plastic high pressure gas main with an 8" gas line on the west side of Justison Street just south of existing Shipyard Drive. Relocate the 12" steel transmission gas main on Beech Street at S. Madison Street with a crossing at Sta. 228+90 and along Beech Street for a distance of 210 LF. Abandon the existing 12" gas line on the west side of Justison Street from existing Shipyard Drive to Beech Street. This work will take 45 calendar days and require 110 CY of select.

Relocate the 12" valve nest and gas regulator station from the Beech Street/S. Madison Street intersection to the Delmarva property at the LNG facility with a road crossing of Marsh Road at Sta. 3007+15. At the existing Beech Street regular station, DP&L-Gas shall demolish and remove all above-grade equipment and materials. All subsurface equipment at the existing Beech Street regular station shall be purged and properly abandoned by DP&L-Gas, but shall remain in place for the State's Contractor to remove. This work will take 120 calendar days.

Install a new 12" steel transmission gas main under the Christina River via horizontal directional drilling methods on the south side of the bridge (a distance of 2400') from New Sweden Street, approx. sta. 428+00 to existing Walnut Street (sta. 453+50 on New Sweden Street). Prior to installation of the gas main, Delmarva Power & Light-Gas shall coordinate with the contractors for Contract T201612101 and T200512102 to determine the timing and location of the installed line, any requirements, procedures, or precautions to be implemented when working in the vicinity of the aforementioned DelDOT contracts, including accessing the site and storing and stockpiling materials. Installation of this new 12" gas main under the river shall not begin prior to May 1, 2019. It is anticipated that this work will take 70 calendar days to complete.

Install a relocated 12" main on Walnut Street from Sta. 54+15 to Sta. 59+15 (a distance of approx. 500') with a crossing of Walnut Street at Sta. 59+20 in a 16" steel casing to be installed by the State's Contractor. Connect to the existing 8" gas line at Sta. 56+20. Abandon the existing 8"/12" gas line from Sta. 54+15 to Sta. 77+08. This work will take 42 calendar days and require 700 CY of select.

Relocate the 8" gas line to be south of the New Sweden Street roadway from the new valve nest to connect to the existing gas line at Sta. 430+60. This work will take 20 calendar days and require 100 CY of select.

Relocate the 2" gas line prior to installation of the bioretention facility on Market Street, Sta. 96+70, lt. to Sta. 98+00, lt. This work will take 20 calendar days and require 100 CY of select.

Install a 6" distribution main from Market Street, Sta. 106+50 rt. east to a crossing of Walnut Street at Sta. 65+20 in a 10" steel casing to be installed by the State's Contractor. This work will take 30 calendar days and require 150 CY of select.



Any existing facilities that are comprised of hazardous materials will be removed by the company. Any existing facilities containing hazardous materials will be purged by the company.

The calendar day estimates listed above are contingent upon weather events, accessibility, disruptions by others, and any other limits placed on DP&L that inhibit efforts for sustained daily operation.

## **2. State's Contractor Responsibility:**

Multiple gas valve (13) and manhole (2) adjustments throughout the project required due to the proposed construction activities.

For the bioretention facility gas line relocation on Market Street, Sta. 96+70, It. to Sta. 98+00, It., the State's Contractor shall excavate and backfill the trench per the Company's standard specifications and trench detail. This includes minimum cover requirements of 36" for pipes less than 6" in diameter and 48" for pipes 6" or greater in diameter; and a minimum of 12" of DelDOT Borrow Type C (select) around the pipe.

The State's Contractor shall furnish and install two steel casing pipes on Walnut Street, a 16" at Sta. 59+20, and a 10" at Sta. 65+20, per the Company's standard specifications.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

**New Castle County Department of Special Services (NCC) - Sanitary Sewer**  
NCC maintains underground facilities within the limits of Contract T200512102.

The State's contractor shall perform the following relocations and adjustments:

Multiple sanitary manhole (4) adjustments required due to the proposed construction activities.

These adjustments and any relocations of NCC sewer facilities shall be performed by the State's contractor in accordance with the respective agencies' standard specifications as directed by the Engineer. The State contractor shall notify NCC a minimum of seven (7) calendar days in advance of the State contractor performing any necessary facility adjustments.

### **Verizon Delaware LLC**

The aforementioned Company maintains aerial and underground facilities within the limits of Contract T200512102.

The proposed changes to the Company's existing facilities are reimbursable and will include, but are not limited to the following:

### 1. Verizon-DE's Responsibility:

Verizon will be responsible for furnishing and delivering to the project site all materials associated with the underground system such as conduit, marking tape, hand holes and associated materials for the State's Contractor to install. Following installation of these materials by the State's Contractor, Verizon will relocate the existing aerial cables along both sides of South Market Street from STA 94+00 to STA 109+50 into the conduit system. Verizon will place and splice new cables in the manhole/conduit system and remove the old aerial cables. Verizon will order all cable, associated equipment and do all splicing. The company will be responsible for insuring that the conduit system being constructed by the State's contractor is being built to the specifications and standards set by the Company at the State's expense. Verizon will utilize a contracted consultant to provide field inspection for quality assurance.

The Company will furnish and install any new manholes if required, and will perform any pedestal and manhole lid adjustments (6) throughout the project required due to the proposed construction activities. Verizon will also perform all conduit tie-ins to the existing Verizon manholes.

The Company will install a new guy anchor for the existing utility pole on Market Street, Sta. 105+45, lt.

### 2. State's Contractor Responsibility:

The State's Contractor shall excavate the trench, install conduit, marking tape, and hand holes provided by Verizon, and backfill the trench per the trench detail on the plans and the Company's standard specifications.

The State's contractor shall install the following Verizon line relocations:

New Sweden Street, Sta. 430+75, rt. – install conduit from existing pedestal to new Delmarva Power Electric pole.

Market Street, Sta. 94+00 to Sta. 111+50, lt. – existing Verizon ductbank to remain. State's Contractor shall exercise great care during excavation for proposed construction in the vicinity of this ductbank. The State's Contractor shall coordinate with the Engineer to ensure a Verizon representative is on-site during any excavation near this ductbank.

Market Street, Sta. 96+75 to Sta. 98+50, lt. – replace existing Verizon line with two, 4" conduits from pole #48387/42709, crossing James Court, to existing Market Street manhole as necessary to install proposed bioretention facility.

Market Street, Sta. 102+95 to Sta. 109+55, lt. – starting at the two capped, 4" conduits installed under DeIDOT Contract No. 29-007-05, Market Street Safety Improvements at

Sta. 109+55, lt., extend two, 4" conduits southward to Sta. 102+95, +/- lt. At the northern limit of this conduit run, install a new hand hole to maintain service to the existing building customer. From existing manhole at Sta. 107+10, lt., install one, 4" conduit southward to Sta. 105+55, +/- lt., then turn southwest to reestablish service to the existing private utility pole at Sta. 105+45, lt.

Market Street, Sta. 107+60 to Sta. 110+35, rt. – starting at the two capped, 4" conduits installed under DelDOT Contract No. 29-007-05, Market Street Safety Improvements at Sta. 110+35, rt., extend two, 4" conduits southward to Sta. 109+50, +/- rt. At this point, continue one, 4" conduit southeast to a new hand hole, then reestablish service to the two existing building customers. From Sta. 109+50, rt., continue the other one, 4" conduit southward to Sta. 108+00, +/- rt., then turn southeast to a new hand hole, and then east to reestablish service to the existing customer via the existing utility pole.

The Verizon conduits must be installed in accordance with the Company's standards and specifications. The conduits must be installed by a company that is qualified to do Verizon-DE work. It is Verizon's preference that Danella Construction perform the work, since they are familiar with Verizon's specifications, requirements and require limited supervision during construction.

#### **Company review of Field Changes**

Verizon maintains the right to approve any design changes submitted by the Engineer as well as the right to review any field changes that could impact the construction of the Verizon conduits.

Verizon will require ninety (90) calendar days to complete the proposed aerial relocation work and cabling into the conduit system. Verizon will require twenty-eight (28) calendar days advance notice of completion of the conduit system, cut and fill stakes, staking rights of way and the Notice to Proceed before any work will start. All time frames are dependent on weather, work load and design changes.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

#### **General Utility Notes**

**1. Outside of the companies and facilities discussed above, no additional utility involvement is anticipated. Should any conflicts be encountered as a result of the contractor's means and methods during construction requiring adjustment and/or relocation, the necessary relocation work shall be accomplished by the respective utility company and funded by the State's Contractor as directed by the District Engineer. The State Contractor shall coordinate any potential conflicts with utility companies and provide adequate notice prior to performing work. Any utility conflicts that are not readily discernable shall be coordinated by the State**

Contractor once the conflict is recognized. The time to complete any relocations/adjustments found to be necessary during construction of the highway project will depend on the nature of the work.

2. Once the State's contractor has given the Utility the advance notice required above, it is the responsibility of the State's contractor to have the work area prepared and accessible for the Utility to perform the tasks listed above. If the site conditions are not ready and the state contractor has given notice to the utility on when the work is to be accomplished, the State's Contractor shall be responsible for any extra cost incurred by the utility company and the State Contractor shall also be responsible for any time delays. Between when the required notice is given to the Utility and when the work is performed and completed, the coordination and scheduling of the Utility is the sole responsibility of the State's

3. Contractor. All costs related to the coordination and scheduling of the utilities is incidental to the contract.

4. Any adjustments and/or relocations of municipally owned sewer or water facilities shall be performed by the State's Contractor in accordance with the respective agency's standard specifications as directed by the District Engineer. The State contractor shall coordinate any potential conflicts of municipally owned sewer or water facilities with facility owners and provide adequate notice to the municipally and to the District Engineer prior to performing work.

#### General Notes

1. The Contractor's attention is directed to Section 105.09 Utilities, Delaware Standard Specifications, August 2001. The Contractor shall contact Miss Utility (1-800-282-8555) two working days prior to any excavation. The Contractor is responsible for the support and protection of all utilities when excavating. The Contractor is responsible for ensuring proper clearances, including safety clearances, from overhead utilities for construction equipment. The Contractor is advised to check the site for access and operating purposes for his equipment and, if necessary, make arrangements directly with the utility companies for field adjustments for adequate clearances.
2. The information shown in the Contract Documents, including the Utility Statement and the Utility Schedule contained herein, concerning the location, type and size of existing and proposed utilities, their locations, and construction timing has been compiled by the preparer based on information furnished by each of the involved Utility Companies. It shall be the responsibility of the State's Contractor to verify all information and coordinate with the Utility Companies prior to and during construction, as specified in Section 105.09 of the Standard Specifications.
3. It is understood and agreed that the Contractor has considered in his bid all

permanent and temporary utility appurtenances in their present and relocated positions as shown on the plans or described in the Utility Statement or are readily discernible and that no additional compensation will be allowed for any delays, inconvenience, or damage due to any interference from the utility facilities and appurtenances or the operation of moving them, except that the Contractor may be granted an equitable extension of time unless the delay is caused by the Contractor's delay in having the site conditions ready for the utility relocation work after the Contractor has provided the advance notice that the site conditions would be ready for the utility relocation work. The contractor's means and method of construction are not taken into account when known utility conflicts are identified. If the Contractor's means and method of construction create a utility conflict the Utility Statement will prevail in discussions with the utility and the Contractor. The State's Contractor shall be responsible for any costs associated with any temporary outages; holding, bracing and shielding of utility facilities; temporary relocations; or permanent relocations that are not specifically identified in this utility statement or shown in the contract plan set.

4. Coordination and cooperation among the Utility Companies and the State's Contractor are of prime importance. Therefore, the Contractor is directed to contact the following Utility Company representatives with any questions regarding this work prior to submitting bids and work schedules. Proposed work schedules should reflect the Utility Companies' proposed relocations. The Utility Companies do not work on weekends, nights or legal holidays.

George Freas	AT&T	georgef@trecgroup.com	(610) 328-6465
Joanne Liao	City of Wilmington	jliao@wilmingtonde.gov	(302) 576-3074
Keith Allridge	Comcast	keith@americomm-llc.com	(717) 713-7586
Angel Collazo	Delmarva Power Electric – Distr.	angel.collazo@delmarva.com	(302) 454-4370
Ray Rouault	Delmarva Power Electric – Trans.	ray.rouault@pepcoholdings.com	(302) 454-5174
Kristin Stanfill	Delmarva Power Gas	kristin.stanfill@delmarva.com	(302) 429-3364
David Clark	New Castle County Dept. of Spec. Svcs	dclark@nccde.org	(302) 395-5705
George Zang	Verizon Delaware Inc.	george.w.zang@verizon.com	(302) 422-1238

5. As outlined in Chapter 3 of the DelDOT Utilities Manual, individual utility companies are responsible for obtaining all required permits from municipal, State and federal government agencies and railroads. This includes but is not limited to water quality permits/DNREC Water Quality Certification, DNREC Subaqueous Lands/Wetlands permits, DNREC Coastal Zone Consistency Certification, County Floodplain permits (New Castle County only), U.S. Coast Guard permits, US Army Corps 404 permits, sediment and erosion permits, and railroad crossing permits.
6. Individual utility companies are required to restore any areas disturbed in conjunction with their relocation work. If an area is disturbed by a utility company and is not properly restored, the Department may have the State's Contractor perform the necessary restoration. Any additional costs incurred as a result will be forwarded to the utility company.
7. 16 Del. C. § 7405B requires notification to and mutually agreeable measures from the public utility operating the electric line for any person intending to carry on any function, activity, work or operation within dangerous proximity of any high voltage overhead electric lines. All contractors/other utilities must also maintain a minimum distance of 10'-0" from all overhead energized lines. Additional clearance may be required from high voltage transmission lines.
8. Any existing facilities that are comprised of hazardous materials will be removed by the Utility Company unless otherwise outlined in the contract documents or language above. Any existing facilities containing hazardous materials will be purged by the Utility Company unless otherwise outlined in the contract documents or language above.

**PREPARED AND RECOMMENDED BY:**

Cary J. Webb

Rummel, Klepper & Kahl, LLP  
Consulting Engineers

3/19/18

Date

**APPROVED AS TO FORM BY:**

[Signature]

Utilities Engineer, DelDOT

3/19/18

Date



STATE OF DELAWARE  
**DEPARTMENT OF TRANSPORTATION**

800 BAY ROAD  
P.O. Box 778  
DOVER, DELAWARE 19903

JENNIFER COHAN  
SECRETARY

**UTILITY STATEMENT**  
**March 19, 2018**  
**Revised May 18, 2018**  
**STATE CONTRACT # T200512102**  
**P3e# 04-00197**  
**F.A.P. # STP-N029 (3)**  
**CHRISTINA RIVER BRIDGE APPROACHES**  
**NEW CASTLE COUNTY**

The following utility companies maintain facilities within the project limits:

**AT&T**

**City of Wilmington - Sanitary Sewer**

**City of Wilmington – Water**

**Comcast Cable of New Castle County**

**Delmarva Power & Light – Electric Distribution**

**Delmarva Power & Light – Electric Transmission**

**Delmarva Power & Light – Gas**

**New Castle County Department of Special Services - Sanitary Sewer**

**Verizon Delaware LLC**

Utility adjustments and/or relocations shall be performed as narrated, but are not limited to the following:

**AT&T**

AT&T maintains aerial and underground facilities within the limits of Contract T200512102.

The Company shall perform all required utility relocations in advance of Contract T200512102. AT&T will utilize an existing AT&T CORE underground path to eliminate the existing aerial path that is affected by the construction of this project. The Company shall provide and install all necessary materials and will complete the necessary work themselves. The Company shall pull and splice all cables and make all connections necessary.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

### **City of Wilmington - Sanitary Sewer**

The City maintains underground facilities within the limits of Contract T200512102.

The State's contractor shall perform the following relocations and adjustments:

Multiple sanitary manhole (32) and sanitary clean-out (17) adjustments required due to the proposed construction activities.

These adjustments and any relocations of City sewer facilities shall be performed by the State's contractor in accordance with the respective agencies' standard specifications as directed by the Engineer. The State contractor shall notify the City a minimum of seven (7) calendar days in advance of the State contractor performing any necessary facility adjustments.

### **City of Wilmington - Water**

The City maintains underground facilities within the limits of Contract T200512102.

The State's contractor shall perform the following relocations and adjustments:

Multiple water valve adjustments (43) throughout the project required due to the proposed construction activities.

Multiple fire hydrant relocations (8), adjustments (3), and removals (2) throughout the project required due to the proposed construction activities.

Stadium Drive, Sta. 501+00 to Sta. 517+20: Construct 1,620 LF of new 8" DIP water main with two (2) fire hydrants. Connect to existing 8" water line at Sta. 517+00.

S. Madison Street, Sta. 202+07 to Sta. 207+17: Construct 510 LF of new 8" DIP water main with one (1) fire hydrant. Connect to existing 8" water line at Sta. 207+17.

S. Madison Street, Sta. 219+27 to Sta. 228+45: Construct 920 LF of new 8" DIP water main with three (3) fire hydrants. Connect to existing 8" water line at Sta. 219+27, and to the existing Beech Street stub at Sta. 228+45. Install benzene resistant gaskets from Sta. 223+00 to Sta. 228+45. Abandon existing 8" water main in existing Shipyard Drive from S. Madison Street to Justison Street.

Shipyard Drive, Sta. 300+12 to Sta. 305+52: Construct 540 LF of new 8" DIP water main with one (1) fire hydrant. Connect to existing 8" water line at Sta. 300+12, and to the new S. Madison Street line at Sta. 305+52. Install benzene resistant gaskets for this entire length of main.

New Sweden Street, Sta. 433+50 to existing Riverwalk stub constructed under Contract T201612101: Construct 166 LF of new 6" DIP water line to one (1) fire hydrant.

New Sweden Street, Sta. 451+15 to Sta. 452+24: Construct 110 LF of new 12" DIP water main, extending the water main constructed under Contract T201612101, and connecting to existing Market Street 12" water main.

Walnut Street, Sta. 53+79, rt.: Relocate vertically existing 4" water line as necessary to install proposed storm drain inlet and pipes.

Market Street, Sta. 98+10, lt.: Relocate vertically existing 8" water line as necessary to install proposed bioretention facility.



Market Street, Sta. 110+28, lt.: Relocate vertically existing 12" water line as necessary to install proposed storm drain inlet and pipes.

The relocations and/or adjustments of City water facilities described above shall be performed by the State's contractor in accordance with the respective agencies' standard specifications as directed by the Engineer. The State contractor shall notify the City a minimum of seven (7) calendar days in advance of the State contractor performing any necessary facility relocations and/or adjustments.

### **Comcast**

Comcast maintains aerial and underground facilities within the limits of Contract T200512102.

The utility work shall include, but not be limited to the following:

#### **1. Comcast's Responsibility:**

The Company shall provide and deliver to the project site all materials, including conduit, marking tape, and hand holes for the State's Contractor to install. Following installation of these materials by the State's Contractor, the Company will relocate the existing aerial cables into the conduit system, and shall pull and splice all cables and make all connections necessary.

There are (2) locations on Market Street that Comcast has overhead coax crossing the road, with service to businesses. These locations will require a handhole be placed by the State's Contractor, then Comcast will install service to the buildings via service risers.

Market Street locations:

Sta. 105+15, left – new underground service to building, was overhead  
Sta. 109+60, left – new underground service to building, was overhead

#### **2. State's Contractor Responsibility:**

The State's Contractor shall excavate the trench, install conduit, marking tape, and hand holes provided by Comcast, and backfill the trench per the trench detail on the plans and the Company's standard specifications, including stone in the bottom of the handholes. This includes a minimum cover requirement of 42", with marking tape installed 12" above the conduit.

The State's Contractor shall install the following Comcast line relocations:

Market Street, Sta. 94+20, rt. to Sta. 95+55, lt. – install two (2), 4" PVC conduits under Market Street from a new Delmarva Power & Electric pole (Sta. 94+20, rt.) to a new handhole (Sta. 95+55, lt.). From this new handhole, install one (1), 4" PVC conduit southward to existing utility pole #48394/42686 to be reconnected by Comcast to the existing aerial facilities.

Market Street, Sta. 95+55, lt. to Sta. 100+20, lt. – install two (2), 4" PVC conduits from the new handhole (Sta. 95+55, lt.) northward under the new roadway connection to James Court, just to the west of the new stormwater management facility, to a new handhole on top of the existing Comcast conduit (James Court Sta. 708+00, rt.), northeast to a new handhole (Sta. 100+20, lt.).

New Sweden Street, Sta. 451+95, rt. to Sta. 445+70, lt. – install two (2), 4" PVC conduits from the new handhole (Market Street Sta. 100+20, lt.) westward to a new handhole (Sta. 451+15, rt.), then southeast to existing utility pole #48391/42746 to be reconnected by Comcast to the existing aerial facilities. From the new handhole (Sta. 451+15, rt.), install two (2), 4" PVC conduits under New Sweden Street to a new

handhole (Sta. 451+15, lt.), westward to a new handhole (Sta. 446+25, lt.), crossing East Bank Lane to a new handhole (Sta. 445+70, lt.).

Walnut Street, Sta. 59+10, rt. to Sta. 64+00, lt. - install two (2), 4" PVC conduits from a new handhole (Sta. 59+10, rt.), northward under New Sweden Street to a new handhole on top of the existing Comcast conduit (Sta. 60+35, rt.), then northward to the east of the new stormwater management facility, to a new handhole on top of the existing Comcast conduit (Sta. 63+25, rt.), northwest to a new handhole (Sta. 64+00, rt.). From this new handhole, install two (2), 4" PVC conduits under Walnut Street to a new handhole (Sta. 64+00, lt.).

Market Street, Sta. 105+25 - install two (2), 4" PVC conduits from the new handhole (Walnut Street Sta. 64+00, lt.) westward to a new handhole (Market Street Sta. 105+25, rt.). Install two (2), 4" PVC conduits under Market Street to a new handhole (Sta. 105+25, lt.).

### **Company review of Field Changes**

Comcast maintains the right to approve any design changes submitted by the Engineer as well as the right to review any field changes that could impact the construction of the Comcast conduits.

Comcast will require twenty-five (25) calendar days to complete the proposed aerial relocation work and cabling into the conduit system. Comcast will require five (5) calendar days advance notice of completion of the conduit system, cut and fill stakes, staking rights of way, the completion of Delmarva Power & Light and AT&T work, and the Notice to Proceed before any work will start.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

### **Delmarva Power & Light – Electric Distribution**

The aforementioned Company maintains aerial and underground facilities within the limits of Contract T200512102.

**NOTE: AT ALL SWITCHGEAR AND TRANSFORMER LOCATIONS, DELMARVA POWER WILL REQUIRE A TEN (10) FOOT CLEARANCE ON THE FRONT SIDE OF DEVICE, A THREE (3) FOOT CLEARANCE TO THE REAR OF DEVICE, AND A MINIMUM OF FOUR (4) FEET ON THE OTHER SIDES WITH NO OBSTRUCTIONS SUCH AS FENCE, WALL, SHRUBS AND ANY OTHER STRUCTURES.**

***Outages on the 12kv circuits will only be permitted as load, weather and other system conditions permit.***

The utility work shall include, but not be limited to the following:

#### **1. Delmarva Power & Light's Responsibility:**

Overhead Facilities: the Company will perform the following temporary and permanent overhead utility relocations:

Stadium Drive, Sta. 501+00, rt. to Sta. 503+80, lt. – remove existing overhead electric lines, install two new poles (Sta. 501+60, lt. and Sta. 503+25, lt.) with cobrahead luminaires, and connect via overhead to existing utility pole #48133/42749.

Stadium Drive, Sta. 510+20, lt. to Sta. 512+07, lt. – remove existing overhead electric lines, install one new pole (Sta. 511+35, lt.), and connect via overhead to existing private pole, billboard, and utility pole #48133/42805.

Stadium Drive, Sta. 517+60, lt. to Sta. 527+90, rt. – remove existing overhead electric lines, install six new poles beyond lateral offset (Sta. 519+00, lt., Sta. 520+80, lt., Sta. 522+50, lt., Sta. 524+25, lt., Sta. 525+90, lt. and Sta. 526+25, lt.), and connect via overhead to existing utility pole #48129/42878, billboards, existing aerial and underground services, and existing utility pole #48158/42972.

Shipyards Drive, Sta. 301+60, rt. to Sta. 308+40, rt. – remove existing private overhead electric lines and cobrahead luminaires.

Shipyards Drive, Sta. 306+35, lt. to Sta. 308+40, lt. – install three new private poles with cobrahead luminaires and connect via overhead to existing private pole.

S. Madison Street, Sta. 225+75 - remove existing private overhead electric lines.

S. Madison Street, Sta. 228+50, lt. – install new pole in line with existing overhead facilities, and remove existing overhead electric lines and one cobrahead luminaire (#48218/42995).

S. Madison Street, Sta. 229+40, rt. – remove existing overhead electric lines and one cobrahead luminaire (#48190/42735).

New Sweden Street, Sta. 430+80, rt. – install new pole in line with existing overhead facilities, and remove existing overhead electric lines.

Market Street, Sta. 105+25, rt. to Sta. 110+80, rt. – install temporary overhead electric relocation in advance of Phase 1 construction, utilizing higher poles to go over buildings.

Walnut Street, Sta. 74+25, lt. to Sta. 76+15, lt. – install aerial backfeed from existing utility pole #48468/42882 to existing utility pole #48478/42899.

Underground Facilities: Following installation of the manholes and conduit by the State's Contractor, the Company will relocate the existing aerial cables into the conduit system, and shall pull and splice all cables and make all connections necessary. The Company will remove designated switchgears, transformers, and private meters, and furnish and install all proposed switchgears, transformers, and private meters.

The Company proposes to relocate the one (1) existing aerial circuit on pole line and one (1) existing underground circuit in manhole/conduit system along Market Street from Sta. 94+00, rt. to Sta. 110+40, rt. The Company will be responsible for insuring that the manhole conduit system being constructed by the State's contractor is being built to the specifications and standards set by the Company. The Company will provide field inspection for quality assurance. The Company will be responsible for ordering primary and secondary cables, pad mount transformers / switchgears, splices and terminations required for relocation of existing aerial facilities into the underground duct bank and removal of the aerial lines. The Company reserves the right to give the Company's in-house cables crews the first option of pulling all associated cable through their conduit system. The Company will remove all Delmarva Power Electric cables from existing conduit system, and remove all cables from the aerial facilities upon completion of the new facilities.

## **2. State's Contractor Responsibility:**

The State's Contractor shall furnish and install all materials, including precast manholes, conduit, marking tape, hand holes, trench excavation and backfill per the trench detail on the plans and the Company's standard specifications, including stone in the bottom of the handholes. This includes a minimum cover requirement of 42", with marking tape installed 12" above the conduit.

The State's Contractor shall install the following Delmarva Power & Light line relocations:

Stadium Drive, Sta. 509+00 – install (2), 6" PVC conduits under Stadium Drive and cap for future use.

Stadium Drive, Sta. 516+00, rt. to Sta. 519+00, lt. – install (2), 6" PVC conduits from Transformer T-1 northward and under Stadium Drive to new utility pole.

Marsh Road, Sta. 3007+65, lt. to S. Madison Street, Sta. 203+00, lt. - install (2), 6" PVC conduits from existing conduit system, to Private Meter PM-1/ Switchgear SW-1, westward to new utility pole, and northward under Stadium Drive to tie into existing conduit system.

New Sweden Street, Sta. 430+40, lt. to Sta. 430+80, rt. – install (2), 6" PVC conduits from existing manhole southward and under New Sweden Street to new utility pole.

The State's Contractor shall adjust the following Delmarva Power & Light existing manholes to the proposed grade:

Stadium Drive, Sta. 532+50, rt.

Market Street, Sta. 94+00, rt. to Sta. 110+40, rt. - furnish and install a new (3 x 2, 6") manhole duct system (encased in concrete) as well as associated duct runs across Market Street to existing and future customers. The electric manhole with duct system must be installed in accordance with the Company's standards and specifications. Contractor will be responsible for furnishing all materials associated with underground system such as (manholes, conduits, spacers, etc.). The duct system must be installed by a company that is qualified in Delmarva Power Electric work, and must be approved by Delmarva Power Electric prior to any construction activities.

Market Street, Sta. 109+80, lt. - reinstall electric service to the building via service riser.

The State's contractor will provide the following: a level area accessible to the Company's construction vehicles, survey for the Company as required, an area accessible for maintenance during and post construction, as well as select, clearing and grubbing, and cuts and fills to within one foot (+/-).

Following removal of all existing overhead utility lines and luminaires by all Utility Companies, the State's Contractor shall remove the existing utility poles as designated on the Plans.

**NOTE: DelDOT shall be responsible for any removal of contaminated fill or water. Select to be placed in these locations prior to Delmarva Power excavation. DelDOT will also provide monitoring agency.**

**Scheduling of outage and tie over for City of Wilmington Circuits:**

Overtime will be required in order to splice, terminate and tie new circuits into the Company's existing electrical system. This will include nights and weekend work. No outages will be permitted during the months of July and August. Outages may be restricted in September in the event of hot weather.

### **Company review of Field Changes:**

The Company maintains the right to approve any design changes submitted by the Engineer as well as the right to review any field changes that could impact the construction of the electric manhole duct system.

### **Lead-Time for cable and associated materials (16-23 Weeks)**

The lead time to procure these materials could possibly increase due to the economic situation and suppliers eliminating shifts.

### **NOTE: ESTIMATE DOES NOT INCLUDE COSTS FOR THE FOLLOWING:**

REMOVAL/ BLASTING OF ROCK, CLEARING AND GRUBBING, REMOVAL OF SPOILS FROM SITE, SELECT TO BE PROVIDED BY DELDOT, RESTORATION COST NOT INCLUDED, REMOVAL AND DISPOSAL OF ANY CONTAMINATED DIRT OR WATER, MAINTAINING EXISTING U.G. & AERIAL FACILITIES DURING ROAD CONSTRUCTION PHASE

Delmarva Power will **require one hundred (100) calendar** days to complete the proposed work following twenty-eight (28) calendar days advance notice of completion of the manhole duct system, clearing and grubbing, cuts and fills made, staking of rights of way and completion of the Utility Pre-Construction Meeting for this contract and the procurement of easements by DelDOT and receipt of "NTP".

### **Proposed Service Point Locations for Lighting:**

- (1) The Company will furnish and install a pad mounted transformer to replace the existing 120/240V, single phase, pad mounted transformer #48133/42874, which will be impacted by construction. The existing transformer is fed from pole #48132/42890 and currently powers stadium parking lot lighting. The new transformer will power both parking lot lighting as well as roadway lighting along New Sweden Street and will be located at STA 516+03, 43 ft. RT. The State's Contractor will furnish and install all conduit from the transformer to the relocated utility pole on the west side of Stadium Drive. The Company will furnish and install all cable from the transformer to the relocated utility pole on the west side of Stadium Drive. DelDOT will furnish and install conduit and cables to the parking lot and roadway lighting systems. The parking lot lighting and roadway lighting will not be metered services. The Company will assist DelDOT in making the final connections from the lighting system at the transformer.
- (2) There is an existing 120/240V, single phase, pad mounted transformer (#48187/42942) at STA 304+00, 88 ft. RT. This transformer powers existing parking lot lighting. Due to construction impacts, a new connection between the parking lot lighting and the transformer will be required. Additionally, this transformer is proposed to power roadway lighting on Shipyard Drive, New Sweden Street, and S. Madison Street. DelDOT will furnish and install conduit and cables to the lighting system. The parking lot lighting and roadway lighting will not be metered services. The Company will assist DelDOT in making the final connections at the transformer.
- (3) There is an existing 120/240V, single phase, pad mounted transformer (#48203/429XX) at STA 220+34, 80 ft. RT. This transformer powers existing parking lot lighting. Due to construction impacts, a new connection between the parking lot lighting and the transformer will be required. Additionally, this transformer is proposed to power roadway lighting on S. Madison Street. DelDOT will furnish and install conduit and cables to the lighting system. The parking lot lighting and roadway lighting will not be metered services. The Company will assist DelDOT in making the final connections at the transformer.

- (4) The Company will install a 120/240V single phase transformer on existing pole #48190/42735 at STA 430+80, 41 ft. RT. to power the proposed roadway lighting on New Sweden Street and S. Madison Street. The State will be required to come to the pole. The Company will install the riser on the pole and make final connections.
- (5) The Company will install a 120/240V single phase transformer on relocated pole #48383/42758 at STA 450+14, 59 ft. LT. to power the proposed roadway lighting on New Sweden Street and US 13. Roadway lighting on New Sweden Street will be un-metered; therefore, the State will be required to come to the pole. Roadway lighting on US13 will be metered. The State's Contractor will furnish and install conduit from the service pedestal to the base of the pole. The Company will furnish and install cable from the service pedestal to the base of the pole. The Company will install the risers on the pole and make final connections.
- (6) There is an existing 120/240V, single phase transformer mounted on existing pole #48436/42830 at STA 68+23, 29 ft. LT. that powers roadway lighting (to remain). This transformer is proposed to power new, un-metered, shared-use path lighting along Walnut Street. DelDOT will furnish and install conduit and cables to the proposed shared-use path lighting. The State will be required to come to the pole. The Company will install the riser on the pole and make final connections.
- (7) There is an existing 120/240V, single phase, pad mounted transformer (#48519/42944) at STA 82+89, 79 ft. RT. This transformer is proposed to provide service for shared-use path lighting along Walnut Street. DelDOT will furnish and install conduit and cables from the transformer to the proposed shared-use path lighting. The Company will assist DelDOT in making the final connections at the transformer.
- (8) The Company will require that DelDOT's contractor provide some type of disconnect for each run of roadway lights and un-metered electrical service by using a fuse or disconnect switch, as well as supply four (4) copies of as built drawings.
- (9) The Company will require that DelDOT's contractor provide a metered service pedestal and disconnect for the roadway lighting on US13.
- (10) DelDOT will be responsible for providing the Company with an application for lighting that will need to show how many lights and wattage of lights. On this same form, the DelDOT inspector will be required to signoff on lights that they meet lighting standards and code. All this needs to be done prior to Delmarva energizing the service point.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

#### **Delmarva Power & Light – Electric Transmission**

The aforementioned Company maintains aerial facilities within the limits of Contract T200512102 with no apparent conflicts with the proposed construction activities.

Due to roadway fill being placed adjacent to existing transmission pole #59 at Walnut Street Sta. 56+22, 22' Rt., the Company shall extend the corrocote coating upwards to protect the steel pole against corrosion prior to the State's Contractor placing the roadway fill.

Any relocations and/or adjustments to the aforementioned Company's existing facilities that may arise during construction will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

### **Delmarva Power & Light - Gas**

The aforementioned Company maintains 2", 4" and 8" plastic and steel high pressure gas mains, along with a 12" steel transmission pressure gas main, within the limits of Contract T200512102.

#### **1. DP&L Gas' Responsibility:**

The Company shall furnish and install the following gas line relocations and adjustments:

Replace 500 LF of 4" plastic high pressure gas main with an 8" gas line on the west side of Justison Street just south of existing Shipyard Drive. Relocate the 12" steel transmission gas main on Beech Street at S. Madison Street with a crossing at Sta. 228+90 and along Beech Street for a distance of 210 LF. Abandon the existing 12" gas line on the west side of Justison Street from existing Shipyard Drive to Beech Street. This work will take 45 calendar days and require 110 CY of select.

Relocate the 12" valve nest and gas regulator station from the Beech Street/S. Madison Street intersection to the Delmarva property at the LNG facility with a road crossing of Marsh Road at Sta. 3007+15. At the existing Beech Street regular station, DP&L-Gas shall demolish and remove all above-grade equipment and materials. All subsurface equipment at the existing Beech Street regular station shall be purged and properly abandoned by DP&L-Gas, but shall remain in place for the State's Contractor to remove. This work will take 120 calendar days.

Install a new 12" steel transmission gas main under the Christina River via horizontal directional drilling methods on the south side of the bridge (a distance of 2400') from New Sweden Street, approx. sta. 428+00 to existing Walnut Street (sta. 453+50 on New Sweden Street). Prior to installation of the gas main, Delmarva Power & Light-Gas shall coordinate with the contractors for Contract T201612101 and T200512102 to determine the timing and location of the installed line, any requirements, procedures, or precautions to be implemented when working in the vicinity of the aforementioned DelDOT contracts, including accessing the site and storing and stockpiling materials. Installation of this new 12" gas main under the river shall not begin prior to May 1, 2019. It is anticipated that this work will take 70 calendar days to complete.

Install a relocated 12" main on Walnut Street from Sta. 54+15 to Sta. 59+15 (a distance of approx. 500') with a crossing of Walnut Street at Sta. 59+20 in a 16" steel casing to be installed by the State's Contractor. Connect to the existing 8" gas line at Sta. 56+20. Abandon the existing 8"/12" gas line from Sta. 54+15 to Sta. 77+08. This work will take 42 calendar days and require 700 CY of select.

Relocate the 8" gas line to be south of the New Sweden Street roadway from the new valve nest to connect to the existing gas line at Sta. 430+60. This work will take 20 calendar days and require 100 CY of select.

Relocate the 2" gas line prior to installation of the bioretention facility on Market Street, Sta. 96+70, lt. to Sta. 98+00, lt. This work will take 20 calendar days and require 100 CY of select.

Install a 6" distribution main from Market Street, Sta. 106+50 rt. east to a crossing of Walnut Street at Sta. 65+20 in a 10" steel casing to be installed by the State's Contractor. This work will take 30 calendar days and require 150 CY of select.

Any existing facilities that are comprised of hazardous materials will be removed by the company. Any existing facilities containing hazardous materials will be purged by the company.

The calendar day estimates listed above are contingent upon weather events, accessibility, disruptions by others, and any other limits placed on DP&L that inhibit efforts for sustained daily operation.

## **2. State's Contractor Responsibility:**

Multiple gas valve (13) and manhole (2) adjustments throughout the project required due to the proposed construction activities.

For the bioretention facility gas line relocation on Market Street, Sta. 96+70, lt. to Sta. 98+00, lt., the State's Contractor shall excavate and backfill the trench per the Company's standard specifications and trench detail. This includes minimum cover requirements of 36" for pipes less than 6" in diameter and 48" for pipes 6" or greater in diameter; and a minimum of 12" of DelDOT Borrow Type C (select) around the pipe.

The State's Contractor shall furnish and install two steel casing pipes on Walnut Street, a 16" at Sta. 59+20, and a 10" at Sta. 65+20, per the Company's standard specifications.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

**New Castle County Department of Special Services (NCC) - Sanitary Sewer**  
NCC maintains underground facilities within the limits of Contract T200512102.

The State's contractor shall perform the following relocations and adjustments:

Multiple sanitary manhole (4) adjustments required due to the proposed construction activities.

These adjustments and any relocations of NCC sewer facilities shall be performed by the State's contractor in accordance with the respective agencies' standard specifications as directed by the Engineer. The State contractor shall notify NCC a minimum of seven (7) calendar days in advance of the State contractor performing any necessary facility adjustments.

### **Verizon Delaware LLC**

The aforementioned Company maintains aerial and underground facilities within the limits of Contract T200512102.

The proposed changes to the Company's existing facilities are reimbursable and will include, but are not limited to the following:

#### **1. Verizon-DE's Responsibility:**

Verizon will be responsible for furnishing and delivering to the project site all materials associated with the underground system such as conduit, marking tape, hand holes and associated materials for the State's Contractor to install. Following installation of these materials by the State's Contractor, Verizon will relocate the existing aerial cables along both sides of South Market Street from STA 94+00 to STA 109+50 into the conduit system. Verizon will place and splice new cables in the manhole/conduit system and remove the old aerial cables. Verizon will order all cable, associated equipment and do all splicing. The company will be responsible for insuring that the conduit system being constructed by the State's contractor is being built to the specifications and standards set by the Company at the State's expense. Verizon will utilize a contracted consultant to provide field inspection for quality assurance.



The Company will furnish and install any new manholes if required, and will perform any pedestal and manhole lid adjustments (6) throughout the project required due to the proposed construction activities. Verizon will also perform all conduit tie-ins to the existing Verizon manholes.

The Company will install a new guy anchor for the existing utility pole on Market Street, Sta. 105+45, lt.

## **2. State's Contractor Responsibility:**

The State's Contractor shall excavate the trench, install conduit, marking tape, and hand holes provided by Verizon, and backfill the trench per the trench detail on the plans and the Company's standard specifications.

The State's contractor shall install the following Verizon line relocations:

New Sweden Street, Sta. 430+75, rt. – install conduit from existing pedestal to new Delmarva Power Electric pole.

Market Street, Sta. 94+00 to Sta. 111+50, lt. – existing Verizon ductbank to remain. State's Contractor shall exercise great care during excavation for proposed construction in the vicinity of this ductbank. The State's Contractor shall coordinate with the Engineer to ensure a Verizon representative is on-site during any excavation near this ductbank.

Market Street, Sta. 96+75 to Sta. 98+50, lt. – replace existing Verizon line with two, 4" conduits from pole #48387/42709, crossing James Court, to existing Market Street manhole as necessary to install proposed bioretention facility.

Market Street, Sta. 102+95 to Sta. 109+55, lt. – starting at the two capped, 4" conduits installed under DelDOT Contract No. 29-007-05, Market Street Safety Improvements at Sta. 109+55, lt., extend two, 4" conduits southward to Sta. 102+95, +/- lt. At the northern limit of this conduit run, install a new hand hole to maintain service to the existing building customer. From existing manhole at Sta. 107+10, lt., install one, 4" conduit southward to Sta. 105+55, +/- lt., then turn southwest to reestablish service to the existing private utility pole at Sta. 105+45, lt.

Market Street, Sta. 107+60 to Sta. 110+35, rt. – starting at the two capped, 4" conduits installed under DelDOT Contract No. 29-007-05, Market Street Safety Improvements at Sta. 110+35, rt., extend two, 4" conduits southward to Sta. 109+50, +/- rt. At this point, continue one, 4" conduit southeast to a new hand hole, then reestablish service to the two existing building customers. From Sta. 109+50, rt., continue the other one, 4" conduit southward to Sta. 108+00, +/- rt., then turn southeast to a new hand hole, and then east to reestablish service to the existing customer via the existing utility pole.

The Verizon conduits must be installed in accordance with the Company's standards and specifications. The conduits must be installed by a company that is qualified to do Verizon-DE work. It is Verizon's preference that Danella Construction perform the work, since they are familiar with Verizon's specifications, requirements and require limited supervision during construction.

Following removal of all existing overhead utility lines and luminaires by all Utility Companies, the State's Contractor shall remove the existing utility poles as designated on the Plans.

### **Company review of Field Changes**

Verizon maintains the right to approve any design changes submitted by the Engineer as well as the right to review any field changes that could impact the construction of the Verizon conduits.

Verizon will require ninety (90) calendar days to complete the proposed aerial relocation work and cabling into the conduit system. Verizon will require twenty-eight (28) calendar days advance notice of completion of the conduit system, cut and fill stakes, staking rights of way and the Notice to Proceed before any work will start. All time frames are dependent on weather, work load and design changes.

Any further relocations and/or adjustments will be performed by the appropriate Company's forces during construction of this project. The time to complete any relocations/adjustments will depend on the nature of the work.

### **General Utility Notes**

**1. Outside of the companies and facilities discussed above, no additional utility involvement is anticipated. Should any conflicts be encountered as a result of the contractor's means and methods during construction requiring adjustment and/or relocation, the necessary relocation work shall be accomplished by the respective utility company and funded by the State's Contractor as directed by the District Engineer. The State Contractor shall coordinate any potential conflicts with utility companies and provide adequate notice prior to performing work. Any utility conflicts that are not readily discernable shall be coordinated by the State Contractor once the conflict is recognized. The time to complete any relocations/adjustments found to be necessary during construction of the highway project will depend on the nature of the work.**

**2. Once the State's contractor has given the Utility the advance notice required above, it is the responsibility of the State's contractor to have the work area prepared and accessible for the Utility to perform the tasks listed above. If the site conditions are not ready and the state contractor has given notice to the utility on when the work is to be accomplished, the State's Contractor shall be responsible for any extra cost incurred by the utility company and the State Contractor shall also be responsible for any time delays. Between when the required notice is given to the Utility and when the work is performed and completed, the coordination and scheduling of the Utility is the sole responsibility of the State's**

**3. Contractor. All costs related to the coordination and scheduling of the utilities is incidental to the contract.**

**4. Any adjustments and/or relocations of municipally owned sewer or water facilities shall be performed by the State's Contractor in accordance with the respective agency's standard specifications as directed by the District Engineer. The State contractor shall coordinate any potential conflicts of municipally owned sewer or water facilities with facility owners and provide adequate notice to the municipally and to the District Engineer prior to performing work.**

### **General Notes**

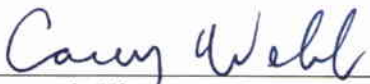
**1. The Contractor's attention is directed to Section 105.09 Utilities, Delaware Standard Specifications, August 2001. The Contractor shall contact Miss Utility (1-800-282-8555) two working days prior to any excavation. The Contractor is responsible for the support and protection of all utilities when excavating. The Contractor is responsible for ensuring proper clearances, including safety clearances, from overhead utilities for construction equipment. The Contractor is advised to check the site for access and operating purposes for his equipment and, if necessary, make arrangements directly with the utility companies for field adjustments for adequate clearances.**

2. The information shown in the Contract Documents, including the Utility Statement and the Utility Schedule contained herein, concerning the location, type and size of existing and proposed utilities, their locations, and construction timing has been compiled by the preparer based on information furnished by each of the involved Utility Companies. It shall be the responsibility of the State's Contractor to verify all information and coordinate with the Utility Companies prior to and during construction, as specified in Section 105.09 of the Standard Specifications.
  
3. It is understood and agreed that the Contractor has considered in his bid all permanent and temporary utility appurtenances in their present and relocated positions as shown on the plans or described in the Utility Statement or are readily discernible and that no additional compensation will be allowed for any delays, inconvenience, or damage due to any interference from the utility facilities and appurtenances or the operation of moving them, except that the Contractor may be granted an equitable extension of time unless the delay is caused by the Contractor's delay in having the site conditions ready for the utility relocation work after the Contractor has provided the advance notice that the site conditions would be ready for the utility relocation work. The contractor's means and method of construction are not taken into account when known utility conflicts are identified. If the Contractor's means and method of construction create a utility conflict the Utility Statement will prevail in discussions with the utility and the Contractor. The State's Contractor shall be responsible for any costs associated with any temporary outages; holding, bracing and shielding of utility facilities; temporary relocations; or permanent relocations that are not specifically identified in this utility statement or shown in the contract plan set.
  
4. Coordination and cooperation among the Utility Companies and the State's Contractor are of prime importance. Therefore, the Contractor is directed to contact the following Utility Company representatives with any questions regarding this work prior to submitting bids and work schedules. Proposed work schedules should reflect the Utility Companies' proposed relocations. The Utility Companies do not work on weekends, nights or legal holidays.

George Freas	AT&T	georgef@trecgroup.com	(610) 328-6465
Joanne Liao	City of Wilmington	jliao@wilmingtonde.gov	(302) 576-3074
Keith Allridge	Comcast	keith@americomm-llc.com	(717) 713-7586
Angel Collazo	Delmarva Power Electric – Distr.	angel.collazo@delmarva.com	(302) 454-4370
Ray Rouault	Delmarva Power Electric – Trans.	ray.rouault@pepcoholdings.com	(302) 454-5174
Kristin Stanfill	Delmarva Power Gas	kristin.stanfill@delmarva.com	(302) 429-3364
David Clark	New Castle County Dept. of Spec. Svcs	dclark@nccde.org	(302) 395-5705
George Zang	Verizon Delaware Inc.	george.w.zang@verizon.com	(302) 422-1238

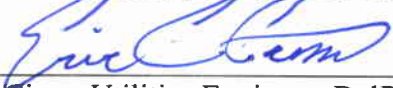
5. As outlined in Chapter 3 of the DelDOT Utilities Manual, individual utility companies are responsible for obtaining all required permits from municipal, State and federal government agencies and railroads. This includes but is not limited to water quality permits/DNREC Water Quality Certification, DNREC Subaqueous Lands/Wetlands permits, DNREC Coastal Zone Consistency Certification, County Floodplain permits (New Castle County only), U.S. Coast Guard permits, US Army Corps 404 permits, sediment and erosion permits, and railroad crossing permits.
6. Individual utility companies are required to restore any areas disturbed in conjunction with their relocation work. If an area is disturbed by a utility company and is not properly restored, the Department may have the State's Contractor perform the necessary restoration. Any additional costs incurred as a result will be forwarded to the utility company.
7. 16 Del. C. § 7405B requires notification to and mutually agreeable measures from the public utility operating the electric line for any person intending to carry on any function, activity, work or operation within dangerous proximity of any high voltage overhead electric lines. All contractors/other utilities must also maintain a minimum distance of 10'-0" from all overhead energized lines. Additional clearance may be required from high voltage transmission lines.
8. Any existing facilities that are comprised of hazardous materials will be removed by the Utility Company unless otherwise outlined in the contract documents or language above. Any existing facilities containing hazardous materials will be purged by the Utility Company unless otherwise outlined in the contract documents or language above.

**PREPARED AND RECOMMENDED BY:**

  
\_\_\_\_\_  
Rummel, Klepper & Kahl, LLP  
Consulting Engineers

5/29/18  
Date

**APPROVED AS TO FORM BY:**

  
\_\_\_\_\_  
Eric Cimo, Utilities Engineer, DelDOT  
Eric.Cimo@state.de.us

5/24/18  
Date