



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

JENNIFER COHAN
SECRETARY

VIA WEBSITE POSTING AND MAILING

May 7, 2020

Contract No. T201804301.01
Federal Aid Project No. NH-S018(18)
Georgetown East Gateway Improvements
Sussex 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 of the Proposal.
2. One (1) page, Special Provision Listing, page 46, revised, to be substituted for the same page in the Proposal.
3. Two (2) pages, Special Provision, 202560 - Contaminated Material, pages 48A through 48B, new, to be added to the Proposal.
4. Three (3) pages, Special Provision, 710500 - Installation Of Water Mains And Accessories, pages 76A through 76C, new, to be added to the Proposal.
5. Three (3) pages, Special Provision, 711501 - Installation Of Sanitary Sewer Mains And Accessories, pages 77A through 77C, new, to be added to the Proposal.
6. One (1) page, Breakout Sheet Instructions, page 182A, new, to be added to the Proposal.
7. One (1) page, Attention to Bidders, page 182B, new, to be added to the Proposal.
8. Four (4) pages, Breakout Sheets for 710500, pages 182C through 182F, new, to be added to the Proposal.
9. Three (3) pages, Breakout Sheets for 711501, pages 182G through 182I, new, to be added to the Proposals.
10. Twenty-seven sheets, Construction Plans, sheets 3, 16, 17, 18, 19, 20, 23, 26, 27, 54, 82, 95, 99, 102, 118, 123, 127, 129, 133, 135, 136, 139, 142, 143, 149, 152 and 153.
11. Fifteen (15) pages, Bid Proposal Forms, pages 1 through 15, **revised**, to be substituted for the sixteen (16) pages in the Proposal.

The following Item Number have been added: 202560, 501001, 710500 and 711501

The following Item Numbers have been deleted: 602035, 710030, 710031, 710374, 710376, 710406, 710438, 710487, 711004, 711009, and 711036

The following Item Number has a revised quantity: 501526

12. Bid Express Amendment File No. 1, new.

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

Sincerely,

~signature on file~

Connie Ivins

Competitively Bid Contracts Coordinator

Delaware Department of Transportation

STATE OF DELAWARE



DEPARTMENT OF TRANSPORTATION

BID PROPOSAL

for

CONTRACT T201804301.01

FEDERAL AID PROJECT NO. NH-S018(18)

CFDA NO. 20.205

GEORGETOWN EAST GATEWAY IMPROVEMENTS

SUSSEX COUNTY

ADVERTISEMENT DATE: April 3, 2020

COMPLETION TIME: 537 Calendar Days

SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
DELAWARE DEPARTMENT OF TRANSPORTATION
AUGUST 2016

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 **May 5 12, 2020**

Contract T201804301.01
GEORGETOWN EAST GATEWAY IMPROVEMENTS

SPECIAL PROVISIONS

S.P. Code	SPECIAL PROVISION DESCRIPTION
202560-15	CONTAMINATED MATERIAL
401699-15	QUALITY CONTROL/QUALITY ASSURANCE OF BITUMINOUS CONCRETE
501526-15	PATTERNED P.C.C., 8"
601505-15	DRAINAGE SAFETY END STRUCTURE
615518-15	3-INCH PVC PIPE FOR ROOF DRAIN OUTFALL
701510-15	CURB/SIDEWALK OPENING
705521-15	PATTERNED PORTLAND CEMENT CONCRETE, 8"
706500-15	RIGHT-OF-WAY MARKER, CAPPED REBAR
710500-15	INSTALLATION OF WATER MAINS AND ACCESSORIES
711500-15	ADJUST AND REPAIR EXISTING SANITARY MANHOLE
711501-15	INSTALLATION OF SANITARY SEWER MAINS AND ACCESSORIES
711502-15	ADJUST AND REPAIR EXISTING SANITARY CLEANOUTS
763501-15	CONSTRUCTION ENGINEERING
763503-15	TRAINEE
763508-15	PROJECT CONTROL SYSTEM DEVELOPMENT PLAN
763509-15	CPM SCHEDULE UPDATES AND/OR REVISED UPDATES
763597-15	UTILITY CONSTRUCTION ENGINEERING
763599-15	FIELD OFFICE, SPECIAL II
831514-15	FURNISH AND INSTALL 2-1/2" SCHEDULE 80 PVC CONDUIT (TRENCH)
831515-15	FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT (TRENCH)
831516-15	FURNISH AND INSTALL 4" SCHEDULE 80 PVC CONDUIT (TRENCH)
831523-15	FURNISH AND INSTALL 2" GALVANIZED STEEL CONDUIT (TRENCH)
831545-15	FURNISH AND INSTALL 4" HDPE SDR-13.5 CONDUIT (BORE)
831574-15	FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 4" SCHEDULE 80 PVC CONDUITS IN TRENCH OR OPEN CUT
834501-15	PARTIAL REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS
842501-15	FURNISH AND INSTALL ELECTRIC UTILITY SERVICE EQUIPMENT 120/240 (100 AMP)
850503-15	LUMINAIRE (LED), 160 WATTS
851504-15	ALUMINUM LIGHTING SINGLE DAVIT ARM, 15' ARM SPREAD
851506-15	ALUMINUM LIGHTING STANDARD, 30' POLE
851515-15	PARKING LOT LIGHTING SYSTEM
907500-15	TEMPORARY SWALE, TYPE A-1
907506-15	EARTH DIKE, TYPE A-1

202560 - CONTAMINATED MATERIAL

Description:

Contaminated Material is defined as solids or liquids (including soil) potentially contaminated with a hazardous substance, requiring special handling and/or disposal per state or federal regulation.

This work describes the excavation, removal and treatment/disposal of contaminated materials resulting from 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. The Contractor will be notified of the Department's environmental representative at the pre-construction meeting.

Overview of Costs:

Potential contaminated solids may affect contractor's costs as follows;

Additional cost to normal excavation requirements:

- Cost of 8 mil plastic for placement under and over solid contaminated material,
- Maintaining the segregated contaminated solids staging area.

Reduced cost to normal excavation requirements:

- Not required to, or charged for, transport of contaminated material from site.
- Not required to, or charged for, disposal of contaminated soil.

Potential contaminated liquids will affect contractor's cost as follows;

Additional cost to normal excavation requirements:

- None

Reduced cost to normal excavation requirements:

- None

Construction Methods and Responsibilities:

Contractor's Responsibilities for potential contaminated solids:

The Contractor shall be responsible for providing the appropriate equipment and personnel necessary to excavate, stage, and load contaminated material for off-site disposal, as identified from previous site environmental investigations or identified during construction activities. The work will be performed in accordance with the procedures described in the site specific "Contaminated Material and Water Removal Work Plan" prepared by the Department's environmental representative. The Department will provide a copy of this plan after the project is awarded and before any work begins. The Contractor shall adhere to applicable Occupational Safety and Health standards, Guidelines and/or Laws. This will include compliance with 29 CFR Part 1910.

After award of the Contract, the Contractor shall immediately be responsible for notifying the Department's HAZMAT Program Manager's office (760-2463) for scheduling coordination with the environmental representative. The contractor shall submit a proposed schedule of work to the Department for review and approval prior to any commencement of work on this site. The Contractor is required to perform to a high standard of workmanship to assure protection of workers, local water supplies, and the environment. The Contractor shall coordinate with the utility companies prior to excavation. The Department's environmental representative shall be present during all phases of work associated with the excavation and removal of potentially contaminated material. Payment will not be made for any work done when a Department approved Inspector or environmental representative is not present to provide environmental oversight.

Contract No. T201804301.01

Specific tasks to be performed by the Contractor will include excavating soil per the project specifications. The Contractor will segregate "contaminated" soil as designated by the Department or their environmental representative, from "clean" soil and place the "contaminated" soil in a designated on-site staging area constructed by the Contractor. At a minimum the staging area needs to be lined with 8-mil plastic and a berm constructed to minimize storm water run-off. The "contaminated" soil will need to be covered by the Contractor at the end of each work day. The Contractor will be responsible for loading contaminated soil onto trucks arranged by the Department's environmental representative on the days the contaminated soil is shipped off-site to a licensed disposal/treatment facility. The Contractor will backfill and compact the excavated area(s) according to the project specifications and payment will be made under that item of the Contract.

Department's Responsibilities:

The Department is responsible for providing and paying; the environmental representative; the transportation of contaminated material for disposal; and the disposal of contaminated material. The "Contaminated Material and Water Removal Work Plan" will identify; the procedures to be used to excavate and stage the contaminated material; the licensed treatment/disposal facility where the Department will ship the contaminated material; the method the material will be transported to the treatment/disposal facility; and any additional health and safety requirements for site personnel.

The Department's environmental representative will conduct a health and safety briefing prior to commencement of activities on the sites to insure an understanding of all applicable standards, guidelines, laws, procedures, etc. consistent with the successful completion of this type of activity. The Department's environmental representative will conduct air monitoring during any excavation activities at the site to identify and mitigate fire, explosion and vapor hazards.

The Department's environmental representative shall coordinate the excavation activities with all applicable local, state, and federal environmental regulatory agencies. 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 soil contamination utilizing vapor monitoring techniques and collect soil samples for laboratory analysis to meet the requirements of the treatment/disposal facility, DNREC and/or the USEPA. The Department's environmental representative's personnel will subcontract with the disposal/treatment facility to provide transportation and disposal/treatment of all contaminated materials to be removed as part of the project. The Department's environmental representative is responsible for measuring the quantity of contaminated material removed, via certified scale weights, for the Department's records.

Method of Measurement:

The quantity of contaminated material will not be measured. It will be included in the excavation quantity.

Basis of Payment:

No additional payment will be made for the handling of contaminated material included in the excavation quantities. Contractor's costs for handling contaminated material as described herein are to be included in the standard excavation pay items included in this contract, and will constitute full compensation for excavation, constructing and maintaining the segregated soil staging area, placement of the contaminated soil in the staging area, providing plastic and daily covering of the segregated soil staging area, and loading of contaminated soil for removal by the Department. 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.

08/14/2017

710500 – INSTALLATION OF WATER MAINS AND ACCESSORIES

Description:

This work consists of furnishing and installing all materials to relocate Water Mains, including Taps, Tie-ins, Fittings, and Valves; relocate fire hydrants; and other related items as shown on the plans and meeting the requirements of the applicable DeIDOT Standard Specifications, these Special Provisions and the applicable Technical Specifications. The relocations are located in distinct sections as shown on the plans.

Any requirements included on the plans that are not addressed by these Special Provisions, shall be performed in accordance with the Technical Specifications as part of the Town of Georgetown Design and Construction Standards for Water, Sewer, and Streets. The Contractor is advised to obtain and be fully acquainted with the applicable specifications of the Owner. Costs to comply are considered incidental to Item 710500.

The Owner of the water line on this project is Town of Georgetown and their Technical Specifications are available online. When referenced in these Special Provisions, or the Technical Specifications, the Owner is intended to be represented by an employee of Town of Georgetown.

“Breakout Sheets” are included in the contract to establish unit prices for the items listed in the specific Breakout Sheet. The total of these unit prices multiplied by the estimated quantities, as totaled for all Breakout Sheets, will establish the total Lump Sum price to be submitted with the bid. Each listed item will be measured as a unit price item in the field. The final Lump Sum payment for Item 710500 will be adjusted by change order, either plus or minus, to match the final totals of all unit price items established in the Breakout Sheets.

Breakout Item	Description
W-1	8"W US 9 Sta. 101+00 to Sand Hill Rd Sta. 213+50 [Lump Sum]
W-2	10"W Airport Rd Sta. 206+00 to Sand Hill Rd Sta. 214+00 [Lump Sum]
W-3	8"W Cheer Center [Lump Sum]

General Requirements:

As listed in the Technical Specifications.

Any and all emergency repairs required during the period of this Contract shall be the responsibility of the Contractor. In the event the Owner or Engineer is unable to contact the Contractor for the immediate emergency repair items of work, or in the event the Contractor does not take action when contacted within a reasonable length of time, the Owner of the utility reserves the right to attend to any and all emergency repair work items and to resubmit the costs directly to the Contractor for complete payment.

An inspector representing the Owner must be present during any service connections. All service connections must be performed by a Licensed Plumber.

Specifications:

DelDOT Standard Specifications

Technical Specifications

Contract Plans and Details

These Special Provisions

Submittals:

In addition to the as-built drawings outlined in Technical Specifications, the Contractor shall submit sources of supply and catalog cuts to DelDOT for all materials furnished as part of Item 710500 as required by Standard Specification Section 106.

The Contractor shall submit for review and approval by the Engineer a detailed plan for dewatering the work zone prior to beginning any water relocation work. It is intended to place all pipe and appurtenances in a “dry trench”. Refer to Technical Specifications for additional bedding details.

The Contractor shall submit the proposed materials, procedure, and sequence of operations for review and approval by the Engineer and Owner prior to beginning work on any “wet taps”.

Materials:

Furnish all materials for all materials related to the water main work. Material requirements are as listed in the plan details, the Technical Specification Sections and this Special Provision.

Cast-in-place Concrete shall meet the requirements of Section 1022, Class B of the Delaware Standard Specifications.

Borrow, Type C, or existing material meeting Borrow, Type C for backfilling shall conform to the requirements of Section 209 of the DelDOT Standard Specifications.

Pipe foundation bedding shall meet Borrow, Type B, or existing material meeting Borrow, Type B requirements in accordance with Section 209 of the DelDOT Standard Specifications.

Construction Methods:

In accordance with the Technical Specifications, Contract Plans and this Special Provision.

Measurement and Payment:**General Requirements –**

Price and payment for all breakout items listed as part of Item 710500 include excavation, dewatering, furnishing, installing, and removing sheeting, shoring, or trench boxes to meet OSHA requirements; backfill (including furnishing Type B and/or Type C Borrow), backfilling, and Testing to meet the requirements of the Owner. Also included in all items are, where necessary, concrete thrust blocks and restraints, tracing wire, and detector tape per Owner's requirements. Also included are in all items are removing, cutting, capping, and/or abandoning existing facilities as described in the Contract Documents. Payment for all items also includes all labor, equipment, and incidentals needed to complete the item.

Measurement for items identified in the Breakout Sheets with a Linear Foot unit will be made from end to end of the final length of installed pipe and fittings. Measurement will be made through any fittings with no deduction.

The price for each item shall include furnishing and installing all materials to resolve any alignment conflict between a water main and storm sewer or other Utility pipe. Also included is any required temporary support of the pipe in conflict with the water main.

Any excavation and backfill below the originally designed elevations due to unsuitable material shall be addressed in accordance with the Technical Specifications.

Pavement Sawcutting, Roadway Patching materials (GABC and warm mix), removal of existing concrete, topsoil, seeding, and all Maintenance of Traffic items will be paid for separately under their respective bid items, if required by the contract documents.

For Service Connections, the price per each shall also include installation of necessary service lateral pipe, labor and equipment necessary to adjust an existing service connection and/or meter box. Any new materials required will be furnished by the Owner. Also included in the price per each is the cost to have any service connections performed by a Licensed Plumber.

Payment Clarification –

A percentage of the total Lump Sum bid price will be paid based on the work performed in each pay period. The percentage will be calculated by multiplying the total units of each completed Breakout Item times the appropriate unit price; then adding the total dollars of completed work, divided by the total Lump Sum bid price for item 710500, Installation of Water Mains and Accessories. Final payment may result in less than 100% of the total Lump Sum based on actual work performed. Should the Lump Sum total be exceeded, additional funds will be added by Change Order based on the best available estimate at the time.

711501 - INSTALLATION OF SANITARY SEWER MAINS AND ACCESSORIES

Description:

This work consists of furnishing and installing all materials to relocate sewer mains, including Laterals, Cleanouts, Tie-ins, Fittings, and Manholes; relocate force mains, including Tie-ins, Fittings, Valves, Air Release and Vacuum Valves, and Structures; and other related items as shown on the plans and meeting the requirements of the applicable DelDOT Standard Specifications, these Special Provisions and the applicable Technical Specifications. The relocations are located in distinct sections as shown on the plans.

Any requirements included on the plans that are not addressed by these Special Provisions, shall be performed in accordance with the Technical Specifications as part of the Town of Georgetown Design and Construction Standards for Water, Sewer, and Streets. The Contractor is advised to obtain and be fully acquainted with the applicable specifications of the Owner. Costs to comply are considered incidental to Item 711501.

The Owner of the sanitary sewer on this project is Town of Georgetown and their Technical Specifications are available online. When referenced in these Special Provisions, or the Technical Specifications, the Owner is intended to be represented by an employee of Town of Georgetown.

“Breakout Sheets” are included in the contract to establish unit prices for the items listed in the specific Breakout Sheet. The total of these unit prices multiplied by the estimated quantities, as totaled for all Breakout Sheets, will establish the total Lump Sum price to be submitted with the bid. Each listed item will be measured as a unit price item in the field. The final Lump Sum payment for Item 711501 will be adjusted by change order, either plus or minus, to match the final totals of all unit price items established in the Breakout Sheets.

Breakout Item	Description
S-1	8"FM Airport Rd Sta. 206+00 to Sand Hill Rd Sta. 221+50 [Lump Sum]
S-2	8"S US 9 Sta. 111+25 to Sta. 113+00 [Lump Sum]

General Requirements:

As listed in the Technical Specifications.

Any and all emergency repairs required during the period of this Contract shall be the responsibility of the Contractor. In the event the Owner or Engineer is unable to contact the Contractor for the immediate emergency repair items of work, or in the event the Contractor does not take action when contacted within a reasonable length of time, the Owner of the utility reserves the right to attend to any and all emergency repair work items and to resubmit the costs directly to the Contractor for complete payment.

An inspector representing the Owner must be present during any service connections. All service connections must be performed by a Licensed Plumber.

Specifications:

DelDOT Standard Specifications

Technical Specifications

Contract Plans and Details

Sussex County Ordinance 38

These Special Provisions

Submittals:

In addition to the as-built drawings outlined in Technical Specifications, the Contractor shall submit sources of supply and catalog cuts to DelDOT for all materials furnished as part of Item 711501 as required by Standard Specification Section 106.

The Contractor shall submit for review and approval by the Engineer a detailed plan for dewatering the work zone prior to beginning any water relocation work. It is intended to place all pipe and appurtenances in a “dry trench”. Refer to Technical Specifications for additional bedding details.

The Contractor shall submit the proposed materials, procedure, and sequence of operations for review and approval by the Engineer and Owner prior to beginning work on any “wet taps”.

Materials:

Furnish all materials for all materials related to the sanitary sewer work. Material requirements are as listed in the plan details, the Technical Specification Sections and this Special Provision.

Cast-in-place Concrete shall meet the requirements of Section 1022, Class B of the Delaware Standard Specifications.

Borrow, Type C, or existing material meeting Borrow, Type C for backfilling shall conform to the requirements of Section 209 of the DelDOT Standard Specifications.

Pipe foundation bedding shall meet Borrow, Type B, or existing material meeting Borrow, Type B requirements in accordance with Section 209 of the DelDOT Standard Specifications.

Construction Methods:

In accordance with the Technical Specifications, Contract Plans and this Special Provision.

Measurement and Payment:

General Requirements –

Price and payment for all breakout items listed as part of Item 711501 include excavation, dewatering, furnishing, installing, and removing sheeting, shoring, or trench

Contract No. T201804301.01

boxes to meet OSHA requirements; backfill (including furnishing Type B and/or Type C Borrow), backfilling, and Testing to meet the requirements of the Owner. Also included in all items are, where necessary, concrete thrust blocks and restraints, tracing wire, and detector tape per Owner's requirements. Also included are in all items are removing, cutting, capping, and/or abandoning existing facilities as described in the Contract Documents. Payment for all items also includes all labor, equipment, and incidentals needed to complete the item.

Measurement for items identified in the Breakout Sheets with a Linear Foot unit will be made from end to end of the final length of installed pipe and fittings. Measurement will be made through any fittings with no deduction.

The price for each item shall include furnishing and installing all materials to resolve any alignment conflict between a sewer main, and water main, storm sewer, or other Utility pipe. Also included is any required temporary support of the pipe in conflict with the sewer main.

Any excavation and backfill below the originally designed elevations due to unsuitable material shall be addressed in accordance with the Technical Specifications.

Pavement Sawcutting, Roadway Patching materials (GABC and warm mix), removal of existing concrete, topsoil, seeding, and all Maintenance of Traffic items will be paid for separately under their respective bid items, if required by the contract documents.

For Service Connections, the price per each shall also include installation of necessary service lateral pipe, labor and equipment necessary to adjust an existing service connection and/or meter box. Any new materials required will be furnished by the Owner. Also included in the price per each is the cost to have any service connections performed by a Licensed Plumber.

Payment Clarification –

A percentage of the total Lump Sum bid price will be paid based on the work performed in each pay period. The percentage will be calculated by multiplying the total units of each completed Breakout Item times the appropriate unit price; then adding the total dollars of completed work, divided by the total Lump Sum bid price for item 711501, Installation of Sanitary Sewer Mains and Accessories. Final payment may result in less than 100% of the total Lump Sum based on actual work performed. Should the Lump Sum total be exceeded, additional funds will be added by Change Order based on the best available estimate at the time.



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 2 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: _____ **Alt Mbr ID:** _____

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0120	301001 GRADED AGGREGATE BASE COURSE, TYPE B	8,562.000 CY	_____	_____	_____	_____
0130	401005 SUPERPAVE TYPE C, PG 64-22 (CARBONATE STONE)	2,929.000 TON	_____	_____	_____	_____
0140	401014 SUPERPAVE TYPE B, PG 64-22	4,247.000 TON	_____	_____	_____	_____
0150	401015 SUPERPAVE TYPE B, PG 70-22	4,602.000 TON	_____	_____	_____	_____
0160	401021 SUPERPAVE TYPE BCBC, PG 64-22	7,289.000 TON	_____	_____	_____	_____
0170	401045 SUPERPAVE TYPE C, PG 70-22 (NON-CARBONATE STONE)	2,726.000 TON	_____	_____	_____	_____
0180	501001 PORTLAND CEMENT CONCRETE PAVEMENT, 8"	28.000 SY	_____	_____	_____	_____
0190	501526 PATTERNED PORTLAN CEMENT CONCRETE, 8"	2,654.000 SF	_____	_____	_____	_____
0200	601032 REINFORCED CONCRETE PIPE, 15", CLASS IV	639.000 LF	_____	_____	_____	_____
0210	601033 REINFORCED CONCRETE PIPE, 18", CLASS IV	971.000 LF	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 3 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: _____ **Alt Mbr ID:** _____

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0220	601115 REINFORCED CONCRETE ELLIPTICAL PIPE, 14" X 23", CLASS IV	795.000 LF	_____	_____	_____	_____
0230	601116 REINFORCED CONCRETE ELLIPTICAL PIPE, 19" X 30", CLASS IV	616.000 LF	_____	_____	_____	_____
0240	601119 REINFORCED CONCRETE ELLIPTICAL PIPE, 27" X 42", CLASS IV	152.000 LF	_____	_____	_____	_____
0250	601141 REINFORCED CONCRETE FLARED END SECTION, 15"	3.000 EACH	_____	_____	_____	_____
0260	601142 REINFORCED CONCRETE FLARED END SECTION, 18"	8.000 EACH	_____	_____	_____	_____
0270	601170 REINFORCED CONCRETE FLARED END SECTION, 14" X 23"	5.000 EACH	_____	_____	_____	_____
0280	601171 REINFORCED CONCRETE FLARED END SECTION, 19" X 30"	4.000 EACH	_____	_____	_____	_____
0290	601174 REINFORCED CONCRETE FLARED END SECTION, 27"X42"	1.000 EACH	_____	_____	_____	_____
0300	601505 DRAINAGE SAFETY END STRUCTURE	2.000 EACH	_____	_____	_____	_____
0310	602003 DRAINAGE INLET, 34" X 24"	13.000 EACH	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 4 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0320	602004 DRAINAGE INLET, 48" X 30"	16.000 EACH	_____.	_____.	_____.	_____.
0330	602005 DRAINAGE INLET, 48" X 48"	4.000 EACH	_____.	_____.	_____.	_____.
0340	602006 DRAINAGE INLET, 66" X 30"	4.000 EACH	_____.	_____.	_____.	_____.
0350	602031 MANHOLE, 48" X 48"	8.000 EACH	_____.	_____.	_____.	_____.
0360	602100 REPLACE DRAINAGE INLET GRATE(S)	5.000 EACH	_____.	_____.	_____.	_____.
0370	602101 REPLACE DRAINAGE INLET FRAME(S)	5.000 EACH	_____.	_____.	_____.	_____.
0380	602130 ADJUSTING AND REPAIRING EXISTING DRAINAGE INLET	6.000 EACH	_____.	_____.	_____.	_____.
0390	615518 3-INCH PVC PIPE FOR ROOF DRAIN OUTFALL	16.000 LF	_____.	_____.	_____.	_____.
0400	701013 PORTLAND CEMENT CONCRETE CURB, TYPE 1-8	1,331.000 LF	_____.	_____.	_____.	_____.
0410	701014 PORTLAND CEMENT CONCRETE CURB, TYPE 2	2,334.000 LF	_____.	_____.	_____.	_____.
0420	701018 INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 1-8	6,181.000 LF	_____.	_____.	_____.	_____.



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 5 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0430	701023 INTEGRAL PORTLAND CEMENT CONCRETE CURB AND GUTTER, TYPE 3-8	498.000 LF	_____	_____	_____	_____
0440	701027 PORTLAND CEMENT CONCRETE CURB, TYPE 1-2 MODIFIED	1,159.000 LF	_____	_____	_____	_____
0450	701032 CURB OPENING, 4' OPENING	1.000 EACH	_____	_____	_____	_____
0460	701510 CURB/SIDEWALK OPENING	17.000 EACH	_____	_____	_____	_____
0470	702000 TRIANGULAR CHANNELIZING ISLANDS	1,244.000 SF	_____	_____	_____	_____
0480	705001 PORTLAND CEMENT CONCRETE SIDEWALK, 4"	13,506.000 SF	_____	_____	_____	_____
0490	705002 PORTLAND CEMENT CONCRETE SIDEWALK, 6"	9,615.000 SF	_____	_____	_____	_____
0500	705007 SIDEWALK SURFACE DETECTABLE WARNING SYSTEM	334.000 SF	_____	_____	_____	_____
0510	705521 PATTERNED PORTLAND CEMENT CONCRETE SIDEWALK, 8"	280.000 SF	_____	_____	_____	_____
0520	706000 MONUMENT	6.000 EACH	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 6 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID:

Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0530	706500 RIGHT-OF-WAY MARKER, CAPPED REBAR	53.000 EACH	_____	_____	_____	_____
0540	707001 RIPRAP, R-4	553.000 SY	_____	_____	_____	_____
0550	708002 GEOTEXTILES, SEPARATION	4,750.000 SY	_____	_____	_____	_____
0560	708003 GEOTEXTILES, RIPRAP	664.000 SY	_____	_____	_____	_____
0570	709001 PERFORATED PIPE UNDERDRAINS, 6"	1,250.000 LF	_____	_____	_____	_____
0580	709011 UNDERDRAIN OUTLET PIPE, 6"	157.000 LF	_____	_____	_____	_____
0590	709017 UNDERDRAIN OUTLET	4.000 EACH	_____	_____	_____	_____
0600	710002 ADJUST WATER VALVE BOXES	13.000 EACH	_____	_____	_____	_____
0610	710500 INSTALLATION OF WATERMAIN AND ACCESSORIES	LUMP SUM	LUMP SUM		_____	_____
0620	711500 ADJUST AND REPAIR EXISTING SANITARY MANHOLE	9.000 EACH	_____	_____	_____	_____
0630	711501 SANITARY SEWER SYSTEM	LUMP SUM	LUMP SUM		_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 7 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID:

Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0640	711502 ADJUST AND REPAIR EXISTING SANITARY CLEANOUTS	8.000 EACH	_____	_____	_____	_____
0650	760010 PAVEMENT MILLING, BITUMINOUS CONCRETE PAVEMENT	23,310.000 SYIN	_____	_____	_____	_____
0660	762000 SAW CUTTING, BITUMINOUS CONCRETE	2,158.000 LF	_____	_____	_____	_____
0670	762001 SAW CUTTING, CONCRETE, FULL DEPTH	90.000 LF	_____	_____	_____	_____
0680	763000 INITIAL EXPENSE/DE-MOBILIZATION	LUMP SUM	LUMP SUM		_____	_____
0690	763501 CONSTRUCTION ENGINEERING	LUMP SUM	LUMP SUM		_____	_____
0700	763503 TRAINEE	1,080.000 HOUR	_____	0.80000	_____	864.00
0710	763508 PROJECT CONTROL SYSTEM DEVELOPMENT PLAN	LUMP SUM	LUMP SUM		_____	_____
0720	763509 CPM SCHEDULE UPDATES AND/OR REVISED UPDATES	17.000 EAMO	_____	_____	_____	_____
0730	763597 UTILITY CONSTRUCTION ENGINEERING	100.000 HOUR	_____	_____	_____	_____
0740	763599 FIELD OFFICE, SPECIAL II	17.000 EAMO	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 8 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0750	801000 MAINTENANCE OF TRAFFIC	LUMP SUM	LUMP SUM		_____	_____
0760	802003 ARROW PANELS TYPE C	1,600.000 EADY	_____	_____	_____	_____
0770	803001 FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN	3,000.000 EADY	_____	_____	_____	_____
0780	804001 FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY (FLOOD LIGHTS)	2,000.000 EADY	_____	_____	_____	_____
0790	805001 PLASTIC DRUMS	82,400.000 EADY	_____	_____	_____	_____
0800	806001 TRAFFIC OFFICERS	740.000 HOUR	_____	75.00000	_____	55,500.00
0810	808002 FURNISH AND MAINTAIN TRUCK MOUNTED ATTENUATOR, TYPE II	1,600.000 EADY	_____	_____	_____	_____
0820	810001 TEMPORARY WARNING SIGNS AND PLAQUES	36,000.000 EADY	_____	_____	_____	_____
0830	811009 FLAGGER, SUSSEX COUNTY, FEDERAL	14,000.000 HOUR	_____	_____	_____	_____
0840	811018 FLAGGER, SUSSEX COUNTY, FEDERAL, OVERTIME	2,800.000 HOUR	_____	_____	_____	_____
0850	813001 TEMPORARY BARRICADES, TYPE III	148,000.000 LFDY	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 9 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0860	817001 PAINTING OF WHITE OR YELLOW, SYMBOL/LEGEND	55.000 SF	_____.	_____.	_____.	_____.
0870	817002 PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, ALKYD-THERMOPLASTIC	9,640.000 SF	_____.	_____.	_____.	_____.
0880	817003 TEMPORARY MARKINGS, PAINT, 4"	1,455.000 LF	_____.	_____.	_____.	_____.
0890	817005 PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 5"	45.000 LF	_____.	_____.	_____.	_____.
0900	817006 PERMANENT PAVEMENT STRIPING, ALKYD-THERMOPLASTIC, 12"	75.000 LF	_____.	_____.	_____.	_____.
0910	817013 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 5"	70,865.000 LF	_____.	_____.	_____.	_____.
0920	817014 PERMANENT PAVEMENT STRIPING, EPOXY RESIN PAINT, WHITE/YELLOW, 10"	65.000 LF	_____.	_____.	_____.	_____.
0930	817015 PREFORMED RETROREFLECTIVE THERMOPLASTIC MARKINGS, BIKE SYMBOL	22.000 EACH	_____.	_____.	_____.	_____.
0940	817027 RAISED/RECESSED PAVEMENT MARKER	45.000 EACH	_____.	_____.	_____.	_____.



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 10 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
0950	817031 REMOVAL OF PAVEMENT STRIPING	13,500.000 SF	_____.	_____.	_____.	_____.
0960	819018 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON SINGLE SIGN POST	163.000 EACH	_____.	_____.	_____.	_____.
0970	819019 INSTALLATION OR REMOVAL OF TRAFFIC SIGN(S) ON MULTIPLE SIGN POSTS	57.000 SF	_____.	_____.	_____.	_____.
0980	825001 TUBULAR MARKERS	6.000 EACH	_____.	_____.	_____.	_____.
0990	830001 CONDUIT JUNCTION WELL, TYPE 1, 20" X 20" PRECAST CONCRETE	15.000 EACH	_____.	_____.	_____.	_____.
1000	830002 CONDUIT JUNCTION WELL, TYPE 4, 20" X 42-1/2" PRECAST CONCRETE	12.000 EACH	_____.	_____.	_____.	_____.
1010	830003 CONDUIT JUNCTION WELL, TYPE 5, 24" X 16" PRECAST CONCRETE	1.000 EACH	_____.	_____.	_____.	_____.
1020	830004 CONDUIT JUNCTION WELL, TYPE 7, 36" X 60" PRECAST POLYMER CONCRETE	1.000 EACH	_____.	_____.	_____.	_____.
1030	830008 ADJUST OR REPAIR EXISTING CONDUIT JUNCTION WELL	7.000 EACH	_____.	_____.	_____.	_____.
1040	830010 REMOVAL OF EXISTING JUNCTION WELL	7.000 EACH	_____.	_____.	_____.	_____.



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 11 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: _____ **Alt Mbr ID:** _____

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1050	831514 FURNISH AND INSTALL 2-1/2" SCHEDULE 80 PVC CONDUIT (TRENCH)	60.000 LF	_____	_____	_____	_____
1060	831515 FURNISH AND INSTALL 3" SCHEDULE 80 PVC CONDUIT (TRENCH)	885.000 LF	_____	_____	_____	_____
1070	831516 FURNISH AND INSTALL 4" SCHEDULE 80 PVC CONDUIT (TRENCH)	4,310.000 LF	_____	_____	_____	_____
1080	831523 FURNISH AND INSTALL 2" GALVANIZED CONDUIT (TRENCH)	100.000 LF	_____	_____	_____	_____
1090	831545 FURNISH AND INSTALL 4" HDPE SDR-13.5 CONDUIT (BORE)	1,085.000 LF	_____	_____	_____	_____
1100	831574 FURNISH AND INSTALL SECOND AND SUBSEQUENT ADDITIONAL 4" SCHEDULE 80 PVC CONDUIT IN TRENCH OR OPEN CUT	75.000 LF	_____	_____	_____	_____
1110	832006 FURNISH AND INSTALL 1-CONDUCTOR #2 AWG STRANDED COPPER, TYPE USE-2	80.000 LF	_____	_____	_____	_____
1120	832008 FURNISH AND INSTALL 1-CONDUCTOR #6 STRANDED COPPER, TYPE USE-2	8,525.000 LF	_____	_____	_____	_____
1130	834001 POLE BASE, TYPE 3	1.000 EACH	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 12 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1140	834003 POLE BASE, TYPE 3B	2.000 EACH	_____	_____	_____	_____
1150	834005 POLE BASE, TYPE 4A	6.000 EACH	_____	_____	_____	_____
1160	834006 POLE BASE, TYPE 6	10.000 EACH	_____	_____	_____	_____
1170	834007 POLE BASE EXTENSION	30.000 CF	_____	_____	_____	_____
1180	834501 PARTIAL REMOVAL OF CONCRETE POLE BASES AND CABINET FOUNDATIONS	2.000 CY	_____	_____	_____	_____
1190	835002 CABINET BASE TYPE M	1.000 EACH	_____	_____	_____	_____
1200	835003 CABINET BASE TYPE P	1.000 EACH	_____	_____	_____	_____
1210	835004 CABINET BASE TYPE R	1.000 EACH	_____	_____	_____	_____
1220	842501 FURNISH AND INSTALL ELECTRIC UTILITY SERVICE EQUIPMENT 120/240 (100 AMP)	1.000 EACH	_____	_____	_____	_____
1230	846001 FURNISH AND INSTALL LOOP WIRE 1- CONDUCTOR #14 AWG ENCASED IN 1/4" FLEXIBLE TUBING IN A LOOP SAWCUT	1,070.000 LF	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 13 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1240	846002 FURNISH AND INSTALL A 1-1/2 INCH GALVANIZED RIGID METAL CONDUIT DETECTOR SLEEVE WITH LOOP WIRE	35.000 LF	_____	_____	_____	_____
1250	847004 LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE (120/240;100 AMP)	1.000 EACH	_____	_____	_____	_____
1260	850503 LUMINAIRE (LED), 160 WATTS	10.000 EACH	_____	_____	_____	_____
1270	851504 ALUMINUM LIGHTING SINGLE DAVIT ARM, 15' ARM SPREAD	10.000 EACH	_____	_____	_____	_____
1280	851506 ALUMINUM LIGHTING STANDARD, 30' POLE	10.000 EACH	_____	_____	_____	_____
1290	851515 PARKING LOT LIGHTING SYSTEM	LUMP SUM	LUMP SUM		_____	_____
1300	905001 SILT FENCE	4,278.000 LF	_____	_____	_____	_____
1310	905004 INLET SEDIMENT CONTROL, DRAINAGE INLET	35.000 EACH	_____	_____	_____	_____
1320	905005 INLET SEDIMENT CONTROL, CURB INLET	63.000 EACH	_____	_____	_____	_____
1330	906001 PORTABLE SEDIMENT TANK	6.000 EACH	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 14 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID: _____ **Alt Mbr ID:** _____

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1340	906003 SUMP PIT	13.000 EACH	_____	_____	_____	_____
1350	906004 SKIMMER DEWATERING DEVICE	2.000 EACH	_____	_____	_____	_____
1360	907017 COMPOST FILTER LOGS	139.000 LF	_____	_____	_____	_____
1370	907500 TEMPORARY SWALE, TYPE A-1	109.000 LF	_____	_____	_____	_____
1380	907506 EARTH DIKE, TYPE A-1	693.000 LF	_____	_____	_____	_____
1390	908004 TOPSOIL, 6" DEPTH	2,000.000 SY	_____	_____	_____	_____
1400	908010 TOPSOILING, 6" DEPTH	49,500.000 SY	_____	_____	_____	_____
1410	908015 PERMANENT GRASS SEEDING, STORMWATER	49,470.000 SY	_____	_____	_____	_____
1420	908017 TEMPORARY GRASS SEEDING	42,100.000 SY	_____	_____	_____	_____
1430	908020 EROSION CONTROL BLANKET MULCH	25,850.000 SY	_____	_____	_____	_____
1440	908021 TURF REINFORCEMENT MATTING, TYPE 1	23,620.000 SY	_____	_____	_____	_____
1450	908023 STABILIZED CONSTRUCTION ENTRANCE	1,620.000 SY	_____	_____	_____	_____



Delaware Department of Transportation

05/05/2020 1:04:10 PM

AASHTOWare Project™ Version 4.2 Revision 026

Proposal Schedule of Items

Page 15 of 15

Proposal ID: T201804301.01

Project(s): T201804301

Contractor: _____

SECTION: 0001 ROAD

Alt Set ID:

Alt Mbr ID:

All figures must be typewritten

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price		Bid Amount	
			Dollars	Cents	Dollars	Cents
1460	910006 OUTLET STRUCTURE	5.000 EACH	_____	_____	_____	_____
1470	910008 STORMWATER MANAGEMENT POND	24,690.000 CY	_____	_____	_____	_____
Section: 0001			Total:		_____	_____
			Total Bid:		_____	_____

BREAKOUT SHEET INSTRUCTIONS

BREAKOUT SHEET(S) MUST BE SUBMITTED EITHER WITH YOUR BID DOCUMENTS; OR WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE BID DUE DATE BY THE LOWEST APPARENT BIDDER.

BREAKOUT SHEETS ARE TO BE SUBMITTED TO DELDOT'S CONTRACT ADMINISTRATION AS SHOWN BELOW. BREAKOUT SHEETS CANNOT BE CHANGED AFTER AWARD. THE DEPARTMENT WILL REVIEW THE FIGURES SUBMITTED ON THE BREAKOUT SHEET(S) TO ENSURE THEY MATCH THE RESPECTIVE LUMP SUM BID AMOUNT(S). MATHEMATICALLY INCORRECT BREAKOUT SHEETS WILL BE RETURNED FOR IMMEDIATE CORRECTION.

BREAKOUT SHEETS MAY BE SUBMITTED;

VIA E-MAIL TO: DOT-ASK@STATE.DE.US
SUBJECT: **T201804301.01** Breakout Sheet

OR MAILED TO: DELDOT
CONTRACT ADMINISTRATION
PO BOX 778, DOVER, DE 19903

'BREAKOUT SHEET' AND THE PROJECT NUMBER
MUST APPEAR ON THE ENVELOPE.

"ATTENTION" TO BIDDERS

BREAKOUT SHEET(S) MUST BE SUBMITTED EITHER WITH YOUR BID DOCUMENTS; OR WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE BID DUE DATE BY THE LOWEST APPARENT BIDDER.

BREAKOUT SHEETS ARE TO BE SUBMITTED TO DELDOT'S CONTRACT ADMINISTRATION AS SHOWN BELOW. BREAKOUT SHEETS CANNOT BE CHANGED AFTER AWARD. THE DEPARTMENT WILL REVIEW THE FIGURES SUBMITTED ON THE BREAKOUT SHEET(S) TO ENSURE THEY MATCH THE RESPECTIVE LUMP SUM BID AMOUNT(S). MATHEMATICALLY INCORRECT BREAKOUT SHEETS WILL BE RETURNED FOR IMMEDIATE CORRECTION.

BREAKOUT SHEETS MAY BE SUBMITTED;

VIA E-MAIL TO: DOT-ASK@STATE.DE.US
SUBJECT: **T201804301.01** Breakout Sheet

OR MAILED TO: DELDOT
CONTRACT ADMINISTRATION
PO BOX 778, DOVER, DE 19903

'BREAKOUT SHEET' AND THE PROJECT NUMBER
MUST APPEAR ON THE ENVELOPE.

BREAKOUT SHEET - 1 CONTRACT NO. T201804301					
ITEM 710500 – Installation of Water Mains and Accessories, W-1, 8"W US 9 (Market St) Sta. 101+00 to Sand Hill Rd Sta. 213+50					
ITEM NO.	APPROX. QTY.	UNIT OF MEASURE	DESCRIPTION	UNIT PRICE	AMOUNT
1	1	EA	Furnish & Install 8" DIP, 90-degree bend	\$	\$
2	4	EA	Furnish & Install 8" DIP, 22.5-degree bend	\$	\$
3	6	EA	Furnish & Install 8" DIP, 11.25-degree bend	\$	\$
4	5	EA	Furnish & Install 8" DIP, 45-degree bend	\$	\$
5	450	LF	Furnish & Install 1" Service Line	\$	\$
6	1100	LF	Furnish & Install 8" PVC	\$	\$
7	8	EA	Furnish & Install meter and meter yoke, 1"x1"	\$	\$
8	1	EA	Furnish & Install New Fire Hydrant Assembly (includes tee and 6" valve)	\$	\$
SUBTOTAL ITEM 710500 – Installation of Water Mains and Accessories \$ _____ (SUB TOTAL LUMP SUM BID PRICE FOR ITEM 710500)					

BREAKOUT SHEET - 2 CONTRACT NO. T201804301					
ITEM 710500 – Installation of Water Mains and Accessories, W-2, 10"W Airport Rd Sta. 206+00 to Sand Hill Rd Sta. 214+00					
ITEM NO.	APPROX. QTY.	UNIT OF MEASURE	DESCRIPTION	UNIT PRICE	AMOUNT
1	5	EA	Furnish & Install 10" DIP, 22.5-degree bend	\$	\$
2	2	EA	Furnish & Install 10" DIP, 11.25-degree bend	\$	\$
3	1	EA	Furnish & Install 10" DIP, 45-degree bend	\$	\$
4	1	EA	Furnish & Install 10" DIP, 90-degree bend	\$	\$
5	1	EA	Furnish & Install 10"x8" DIP Reducer	\$	\$
6	1	EA	Furnish & Install 8"x8" DIP Tee	\$	\$
7	1100	LF	Furnish & Install 10" PVC	\$	\$
8	215	LF	Furnish & Install 16" Steel Casing	\$	\$
9	1	EA	Furnish & Install New Fire Hydrant Assembly (includes tee and valve)	\$	\$
SUBTOTAL ITEM 710500 – Installation of Water Mains and Accessories \$ _____ (SUB TOTAL LUMP SUM BID PRICE FOR ITEM 710500)					

BREAKOUT SHEET - 3 CONTRACT NO. T201804301					
ITEM 710500 – Installation of Water Mains and Accessories, W-3, Existing Line, W-3, 8"W Cheer Center					
ITEM NO.	APPROX. QTY.	UNIT OF MEASURE	DESCRIPTION	UNIT PRICE	AMOUNT
1	63	LF	Furnish & Install 8" PVC	\$	\$
2	3	EA	Furnish & Install 8" DIP, 45-degree bend	\$	\$
SUBTOTAL ITEM 710500 – Installation of Water Mains and Accessories \$ _____ (SUBTOTAL LUMP SUM BID PRICE FOR ITEM 710500)					

BREAKOUT SHEET SUMMARY CONTRACT NO. T201804301	
ITEM 710500 – Installation of Water Mains and Accessories, Existing Line	
<u>BREAKOUT SHEET</u>	<u>SUBTOTAL LUMP SUM</u>
1	\$
2	\$
3	\$
TOTAL LUMP SUM BID PRICE FOR ITEM 710500 Installation of Water Mains and Accessories =	\$

BREAKOUT SHEET - 1 CONTRACT NO. T201804301					
ITEM 711501 – Installation of Sewer Mains and Accessories, S-1, 8"FM Airport Rd Sta. 206+00 to Sand Hill Rd Sta. 221+50					
ITEM NO.	APPROX. QTY.	UNIT OF MEASURE	DESCRIPTION	UNIT PRICE	AMOUNT
1	1	EA	Furnish & Install 8" DIP, 90-degree bend	\$	\$
2	7	EA	Furnish & Install 8" DIP, 22.5-degree bend	\$	\$
3	4	EA	Furnish & Install 8" DIP, 11.25-degree bend	\$	\$
4	3	EA	Furnish & Install 8" DIP, 45-degree bend	\$	\$
5	100	LF	Furnish & Install 12" Steel Casing	\$	\$
6	1700	LF	Furnish & Install 8" PVC	\$	\$
7	3	EA	Furnish & Install Air Release Valve	\$	\$
SUBTOTAL ITEM 711501 – Installation of Sewer Mains and Accessories \$ _____ (SUB TOTAL LUMP SUM BID PRICE FOR ITEM 711501)					

BREAKOUT SHEET - 2 CONTRACT NO. T201804301					
ITEM 711501 – Installation of Sewer Mains and Accessories, S-2, 8"S US 9 Sta. 111+25 to Sta. 113+00					
ITEM NO.	APPROX. QTY.	UNIT OF MEASURE	DESCRIPTION	UNIT PRICE	AMOUNT
1	250	EA	Furnish & Install 8" PVC	\$	\$
2	3	EA	Furnish & Install Precast Concrete Manholes	\$	\$
3	5	VF	Furnish & Install Manhole Additional Feet	\$	\$
SUBTOTAL ITEM 711501 – Installation of Sewer Mains and Accessories \$ _____ (SUB TOTAL LUMP SUM BID PRICE FOR ITEM 711501)					

BREAKOUT SHEET SUMMARY CONTRACT NO. T201804301	
ITEM 711501 – Installation of Sewer Mains and Accessories, Existing Line	
<u>BREAKOUT SHEET</u>	<u>SUBTOTAL LUMP SUM</u>
1	\$
2	\$
TOTAL LUMP SUM BID PRICE FOR ITEM 711501 Installation of Sewer Mains and Accessories =	\$


ADDENDUM PREPARED BY

WRA Whitman, Requardt and Associates, LLP
Engineers • Architects • Environmental Planners Est. 1915

R. Wills 5/1/2020

THIS SEAL APPLIES TO THE FOLLOWING SHEETS CHANGED UNDER ADDENDUM #2:
 3, 16-20, 23, 26-27, 54, 82, 95, 99,
 102, 118, 123, 127, 129, 133, 135-136,
 139, 142-143, 149, 152-153.

DATE SEAL



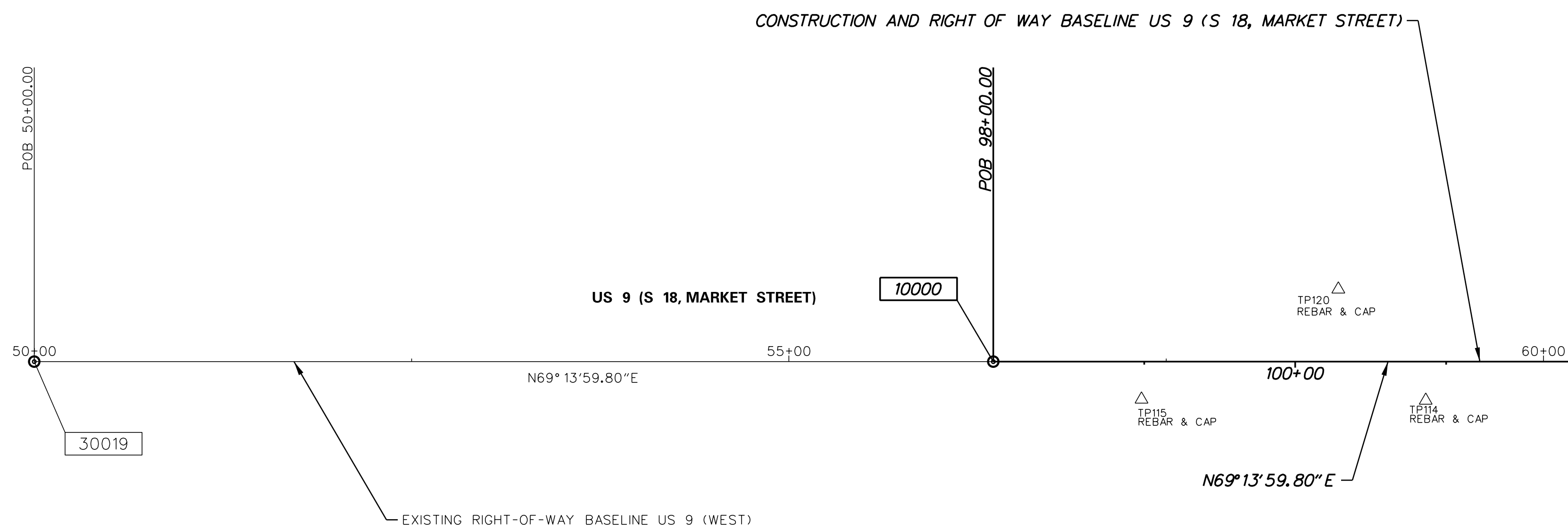

W:\2018\1804301\1804301.dgn
 5/1/2020 11:55:58 AM

ADDENDA / REVISIONS		NOT TO SCALE	GEORGETOWN EAST GATEWAY IMPROVEMENTS	CONTRACT	BRIDGE NO.	ADDENDA AND REVISIONS	SECTION
▲ ADDED ADDENDUM #2 SIGNATURE BLOCK, RWILLS - 5/1/20				T201804301	DESIGNED BY:		WRA
				COUNTY	CHECKED BY:		SHEET NO.
				SUSSEX			3
							AR-01

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP114	100+86.49	25.73'	254244.8113	669202.4899	48.87'
TP115	98+98.20	24.95'	254178.7817	669026.1597	49.16'
TP120	100+28.58	-47.94'	254293.1648	669122.2246	48.89'

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10000	98+00.00	0.00'	254167.2887	668925.4906

R / W BASELINE ALIGNMENT CONTROL US 9 (WEST)				
POINT	STATION	OFFSET	NORTHING	EASTING
30019	50+00.00	0.00'	253941.9819	668331.3269
30024	55+00.00	0.00'	254119.2638	668798.8427
30025	60+00.00	0.00'	254296.5458	669266.3586



MATCH LINE STA. 102+00 - HV-02

NOTES:
1. NEGATIVE (-) DENOTES LEFT OFFSET.

DATUM REFERENCE:
HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/99). (NAD 83/2011).
VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

M:\2018\201804301\201804301.dwg 5/1/2020 10:56:26 AM

ADDENDA / REVISIONS
REVISD DATUM REFERENCE NOTE, R. WILLS - 5/1/20



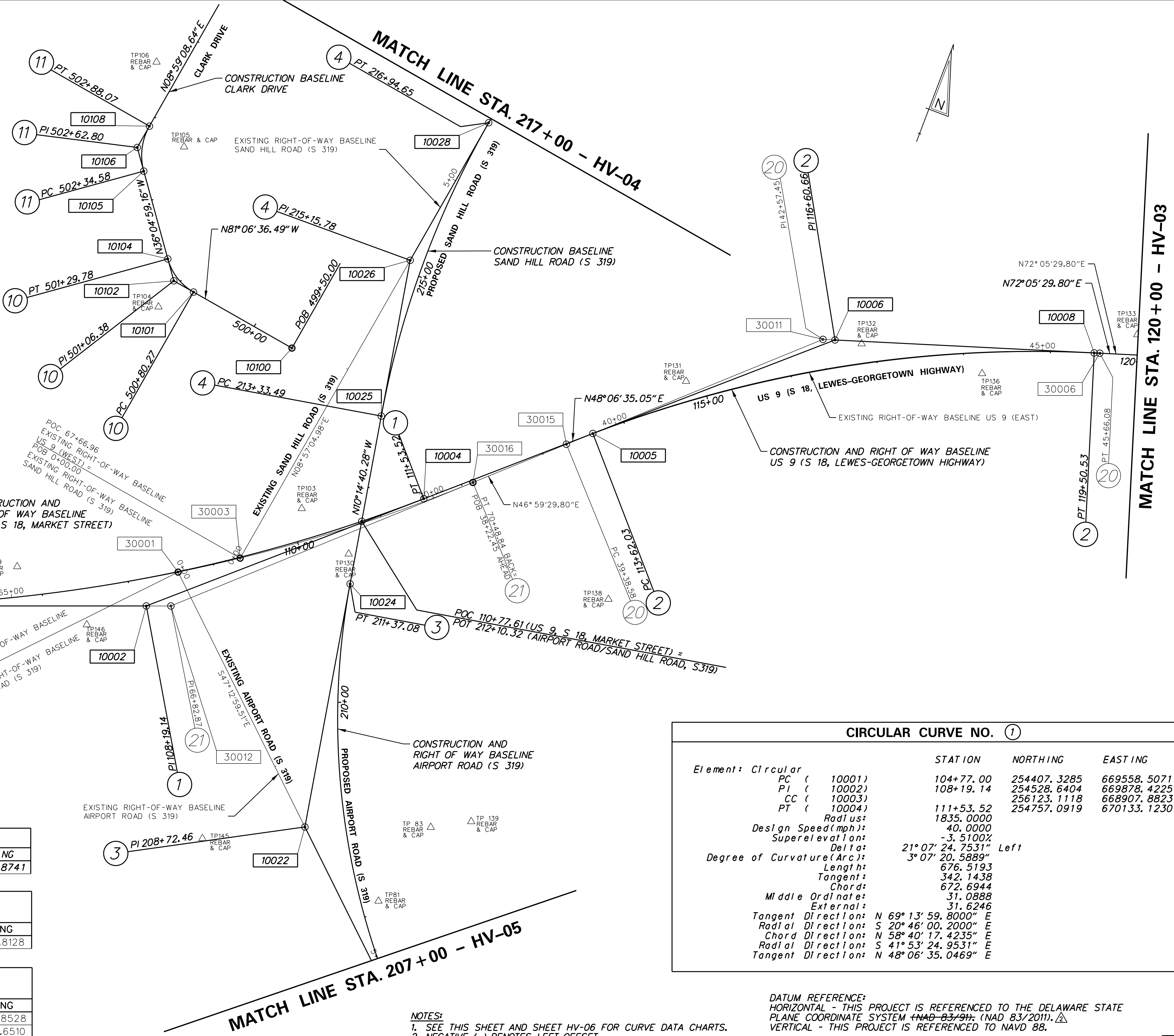
GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	BRIDGE NO.
T201804301	
COUNTY	DESIGNED BY: JAD
SUSSEX	CHECKED BY: RRW

HORIZONTAL AND VERTICAL CONTROL

HV-01
SECTION
WRA
SHEET NO.
16

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP81	207+63.82	20.07'	254305.8211	670248.5196	49.18'
TP83	208+39.49	96.74'	254406.5370	670274.6847	48.60'
TP103	110+15.77	-35.09'	254696.8592	670005.8214	47.47'
TP104	500+97.00	-38.32'	254855.3863	669769.5275	47.11'
TP105	502+85.28	46.37'	255038.0123	669731.7393	47.84'
TP106	503+56.22	-29.55'	255118.0574	669667.5144	49.05'
TP109	106+74.76	-34.83'	254518.3167	669723.5026	47.41'
TP112	104+50.36	30.01'	254369.8252	669544.2339	48.59'
TP113	103+01.61	30.94'	254316.2097	669405.4848	47.93'
TP130	110+51.77	30.94'	254667.1470	670074.8846	47.93'
TP131	114+82.03	-22.64'	254990.6124	670367.3572	48.96'
TP132	116+85.15	-22.06'	255102.5156	670540.8530	48.72'
TP133	119+98.90	-23.52'	255224.7910	670833.5946	48.08'
TP136	118+20.45	24.23'	255119.6011	670682.6003	47.79'
TP138	113+10.07	184.38'	254724.3632	670372.7695	46.57'
TP139	208+38.05	143.70'	254429.1853	670315.8427	47.91'
TP145	208+65.24	-164.94'	254301.3745	670033.6103	47.68'
TP146	107+45.50	41.63'	254484.1711	669821.9924	47.51'



MATCH LINE STA. 102+00 - HV-01

MATCH LINE STA. 120+00 - HV-03

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10100	499+50.00	0.00'	254865.4976	669929.8741

R / W BASELINE ALIGNMENT CONTROL AIRPORT ROAD				
POINT	STATION	OFFSET	NORTHING	EASTING
30001	0+00.00	0.00'	254578.0221	669898.8128

R / W BASELINE ALIGNMENT CONTROL SAND HILL ROAD				
POINT	STATION	OFFSET	NORTHING	EASTING
30003	0+00.00	0.00'	254618.3541	669959.8528
30020	5+00.00	0.00'	255112.2644	670037.6510

CIRCULAR CURVE NO. ①			
Element: Circular	STATION	NORTHING	EASTING
PC (10001)	104+77.00	254407.3285	669558.5071
PI (10002)	108+19.14	254528.6404	669878.4225
CC (10003)		256123.1118	668907.8823
PT (10004)	111+53.52	254757.0919	670133.1230
Radius:	1835.0000		
Design Speed (mph):	40.0000		
Superelevation:	-3.5100%		
Delta:	21° 07' 24.7531" Left		
Degree of Curvature (Arc):	3° 07' 20.5889"		
Length:	676.5193		
Tangent:	342.1438		
Chord:	672.6944		
Middle Ordinate:	31.0888		
External:	31.6246		
Tangent Direction:	N 69° 13' 59.8000" E		
Radial Direction:	S 20° 46' 00.2000" E		
Chord Direction:	N 58° 40' 17.4235" E		
Radial Direction:	S 41° 53' 24.9531" E		
Tangent Direction:	N 48° 06' 35.0469" E		

NOTES:
1. SEE THIS SHEET AND SHEET HV-06 FOR CURVE DATA CHARTS.
2. NEGATIVE (-) DENOTES LEFT OFFSET.

DATUM REFERENCE:
HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/97 (NAD 83/2011)).
VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

ADDENDA / REVISIONS	
REVISED DATUM REFERENCE NOTE. R. WILLS - 5/1/20	



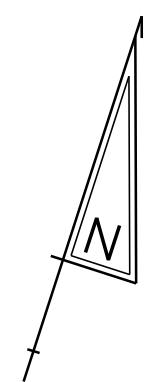
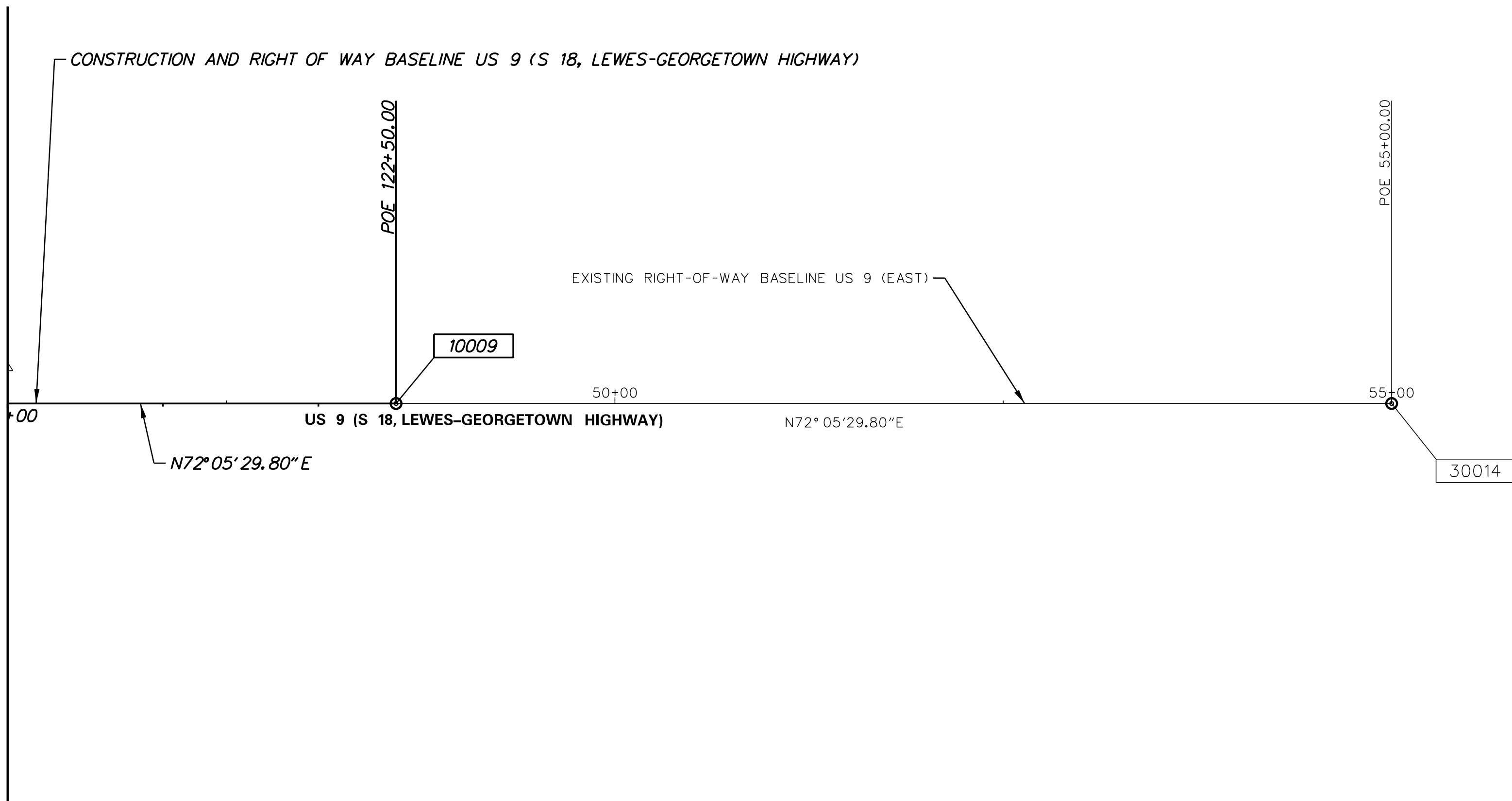
GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT T201804301	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: JAD
	CHECKED BY: RRW

HORIZONTAL AND VERTICAL CONTROL

HV-02
SECTION WRA
SHEET NO. 17

MATCH LINE STA. 120+00 - HV-02



CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10009	122+50.00	0.00'	255279.6205	671079.7593

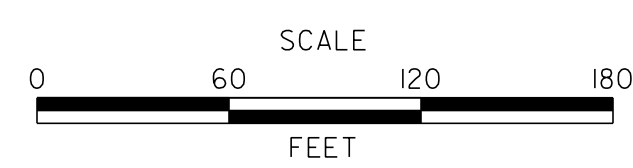
R / W BASELINE ALIGNMENT CONTROL US 9 (WEST)				
POINT	STATION	OFFSET	NORTHING	EASTING
30014	55+00.00	0.00'	255476.6835	671689.5726
30026	50+00.00	0.00'	255322.9355	671213.7979

NOTES:
1. NEGATIVE (-) DENOTES LEFT OFFSET.

DATUM REFERENCE:
HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM ~~(NAD 83/99)~~ (NAD 83/2011). Δ
VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

M:\2018\01\15\CADD\HV03.dgn
 5/17/2020 9:56:29 AM

ADDENDA / REVISIONS	
△	REVISED DATUM REFERENCE NOTE. R. WILLS - 5/1/20

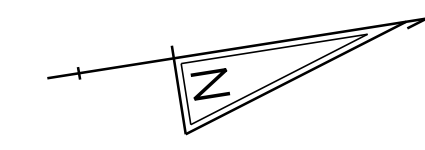


GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	BRIDGE NO.
T201804301	
COUNTY	DESIGNED BY: JAD
SUSSEX	CHECKED BY: RRW

HORIZONTAL AND VERTICAL CONTROL

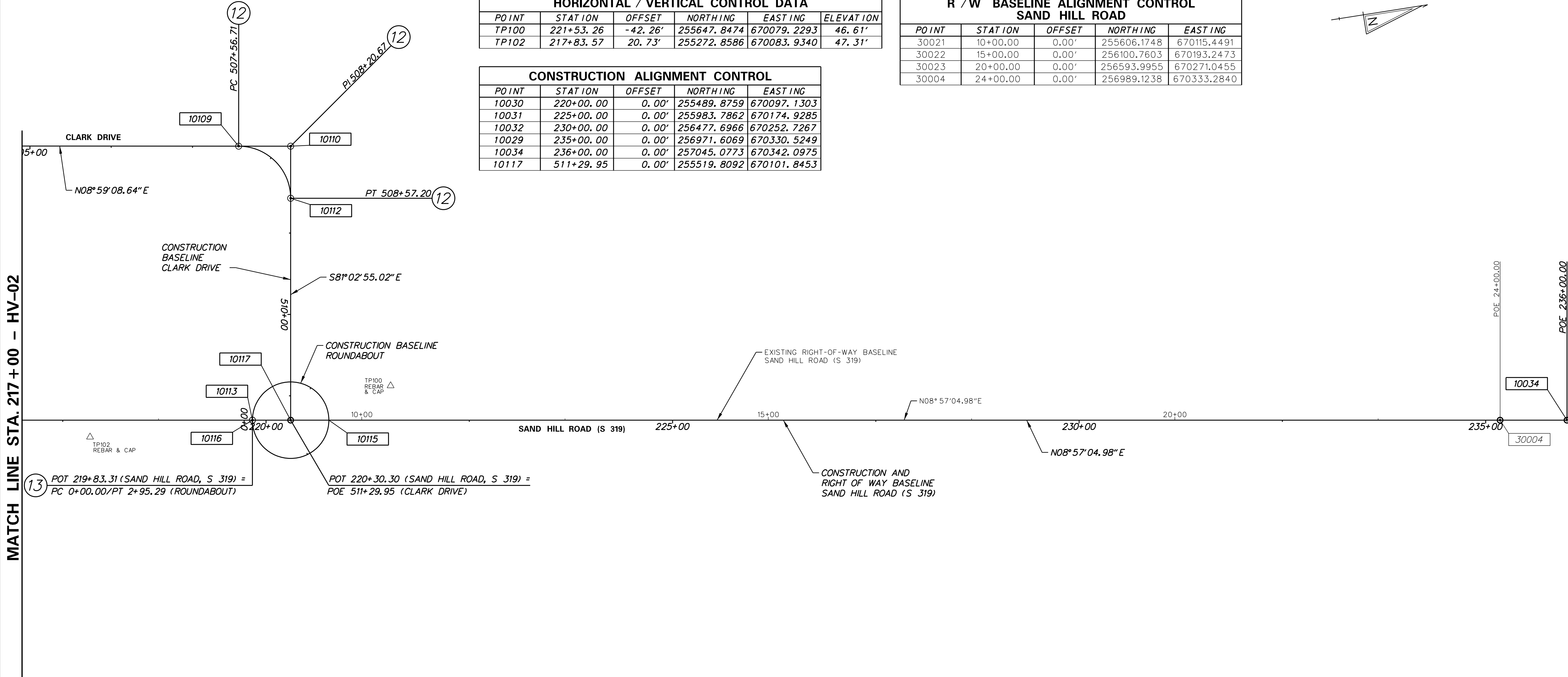
HV-03
SECTION
WRA
SHEET NO.
18



HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP100	221+53.26	-42.26'	255647.8474	670079.2293	46.61'
TP102	217+83.57	20.73'	255272.8586	670083.9340	47.31'

R / W BASELINE ALIGNMENT CONTROL SAND HILL ROAD					
POINT	STATION	OFFSET	NORTHING	EASTING	
30021	10+00.00	0.00'	255606.1748	670115.4491	
30022	15+00.00	0.00'	256100.7603	670193.2473	
30023	20+00.00	0.00'	256593.9955	670271.0455	
30004	24+00.00	0.00'	256989.1238	670333.2840	

CONSTRUCTION ALIGNMENT CONTROL					
POINT	STATION	OFFSET	NORTHING	EASTING	
10030	220+00.00	0.00'	255489.8759	670097.1303	
10031	225+00.00	0.00'	255983.7862	670174.9285	
10032	230+00.00	0.00'	256477.6966	670252.7267	
10029	235+00.00	0.00'	256971.6069	670330.5249	
10034	236+00.00	0.00'	257045.0773	670342.0975	
10117	511+29.95	0.00'	255519.8092	670101.8453	



MATCH LINE STA. 217+00 - HV-02

(13) POT 219+83.31 (SAND HILL ROAD, S 319) = PC 0+00.00/PT 2+95.29 (ROUNDABOUT)
 POT 220+30.30 (SAND HILL ROAD, S 319) = POE 511+29.95 (CLARK DRIVE)

CIRCULAR CURVE NO. (12)				
Element: Circular	STATION	NORTHING	EASTING	
PC (10109)	507+56.71	255509.0227	669759.2506	
PI (10110)	508+20.67	255572.1993	669769.2407	
CC (10111)		255499.0266	669822.4652	
PT (10112)	508+57.20	255562.2471	669832.4233	
Radius:	64.0000			
Delta:	89° 57' 56.3433" Right			
Degree of Curvature (Arc):	89° 31' 28.7598"			
Length:	100.4926			
Tangent:	63.9616			
Chord:	90.4825			
Middle Ordinate:	18.7316			
External:	26.4825			
Tangent Direction:	N 8° 59' 08.6389" E			
Radial Direction:	S 81° 00' 51.3613" E			
Chord Direction:	N 53° 58' 06.8105" E			
Radial Direction:	S 8° 57' 04.9822" W			
Tangent Direction:	S 81° 02' 55.0178" E			

CIRCULAR CURVE NO. (13)				
Element: Circular	STATION	NORTHING	EASTING	
PC (10113)	0+00.00	255473.3872	670094.5331	
CC (10114)		255519.8114	670101.8484	
PCC (10115)	1+47.65	255566.2357	670109.1636	
PT (10116)	2+95.29	255473.3872	670094.5331	
Radius:	47.00			
Delta:	180° 00' 00.0000" Right			
Degree of Curvature (Arc):	121° 54' 48.6343"			
Length:	295.2913			
Tangent:				
Chord:	94.00			
Middle Ordinate:				
External:				
Tangent Direction:	N 81° 02' 43.2358" W			
Radial Direction:	N 08° 57' 16.7642" E			
Chord Direction:	N 08° 57' 16.7642" E			
Radial Direction:	S 08° 57' 16.7642" W			
Tangent Direction:	S 81° 02' 43.2358" E			

NOTES:
 1. NEGATIVE (-) DENOTES LEFT OFFSET.
DATUM REFERENCE:
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91); (NAD 83/2011).
 VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

ADDENDA / REVISIONS
REVISED DATUM REFERENCE NOTE. R. WILLS - 5/1/20



GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	BRIDGE NO.
T201804301	
COUNTY	DESIGNED BY: JAD
SUSSEX	CHECKED BY: RRW

HORIZONTAL AND VERTICAL CONTROL

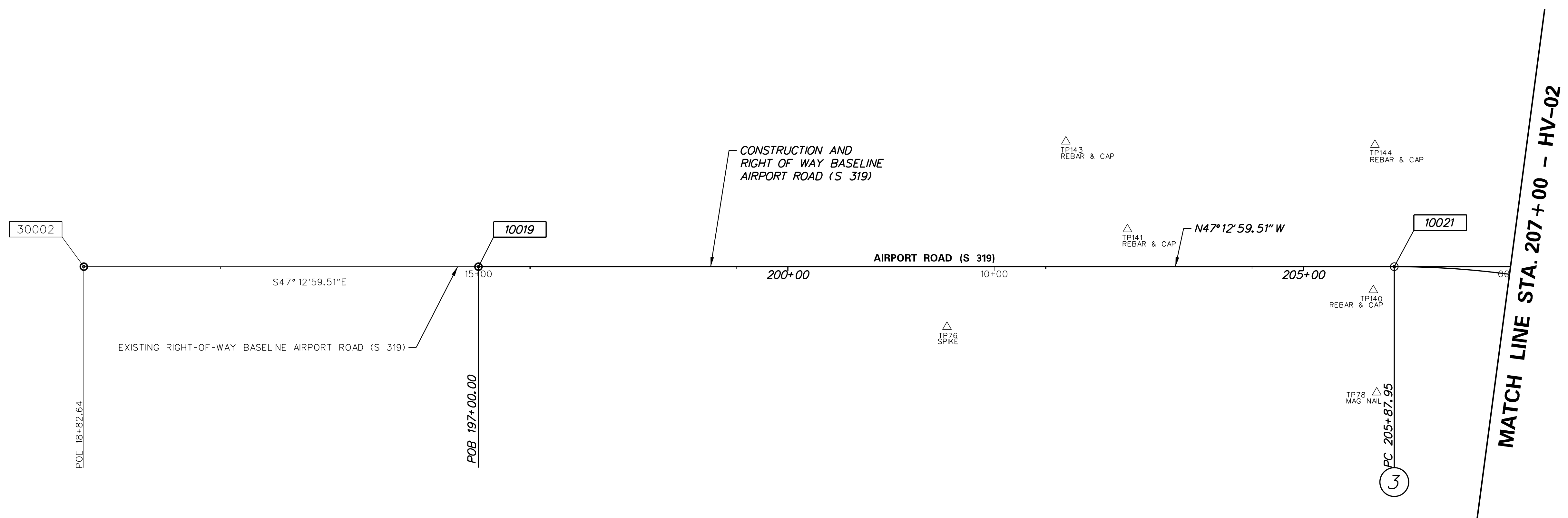
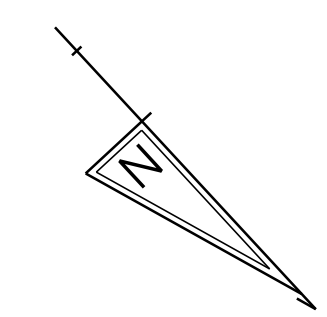
HV-04
SECTION
WRA
SHEET NO.
19

M:\2018\04\301\CAD\HV04.dgn
 5/1/2020 9:56:01 AM

HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP76	201+54.24	58.48'	253910.6286	670706.0426	48.31'
TP78	205+70.92	122.06'	254240.3110	670443.4203	49.23'
TP140	205+67.57	22.91'	254165.2719	670378.5284	48.98'
TP141	203+29.19	-36.28'	253959.9144	670513.2787	48.54'
TP143	202+69.50	-121.39'	253856.9084	670499.2757	50.44'
TP144	205+69.15	-118.14'	254062.8291	670281.5642	48.94'

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10019	197+00.00	0.00'	253559.1777	670999.7016
10020	200+00.00	0.00'	253762.9466	670779.5238
10033	205+00.00	0.00'	254102.5614	670412.5609

R / W BASELINE ALIGNMENT CONTROL SAND HILL ROAD				
POINT	STATION	OFFSET	NORTHING	EASTING
30008	10+00.00	0.00'	253898.7925	670632.7386
30009	15+00.00	0.00'	253559.1777	670999.7016
30002	18+82.64	0.00'	253299.2744	671280.5341



NOTES:
 1. SEE SHEET HV-06 FOR CURVE DATA CHARTS.
 2. NEGATIVE (-) DENOTES LEFT OFFSET.

DATUM REFERENCE:
 HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM ~~NAD 83/91~~; (NAD 83/2011).
 VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88.

M:\2020\1015\CAAD\HV05.dgn
 5/11/2020 9:56:42 AM

ADDENDA / REVISIONS
REVISD DATUM REFERENCE NOTE. R. WILLS - 5/11/20

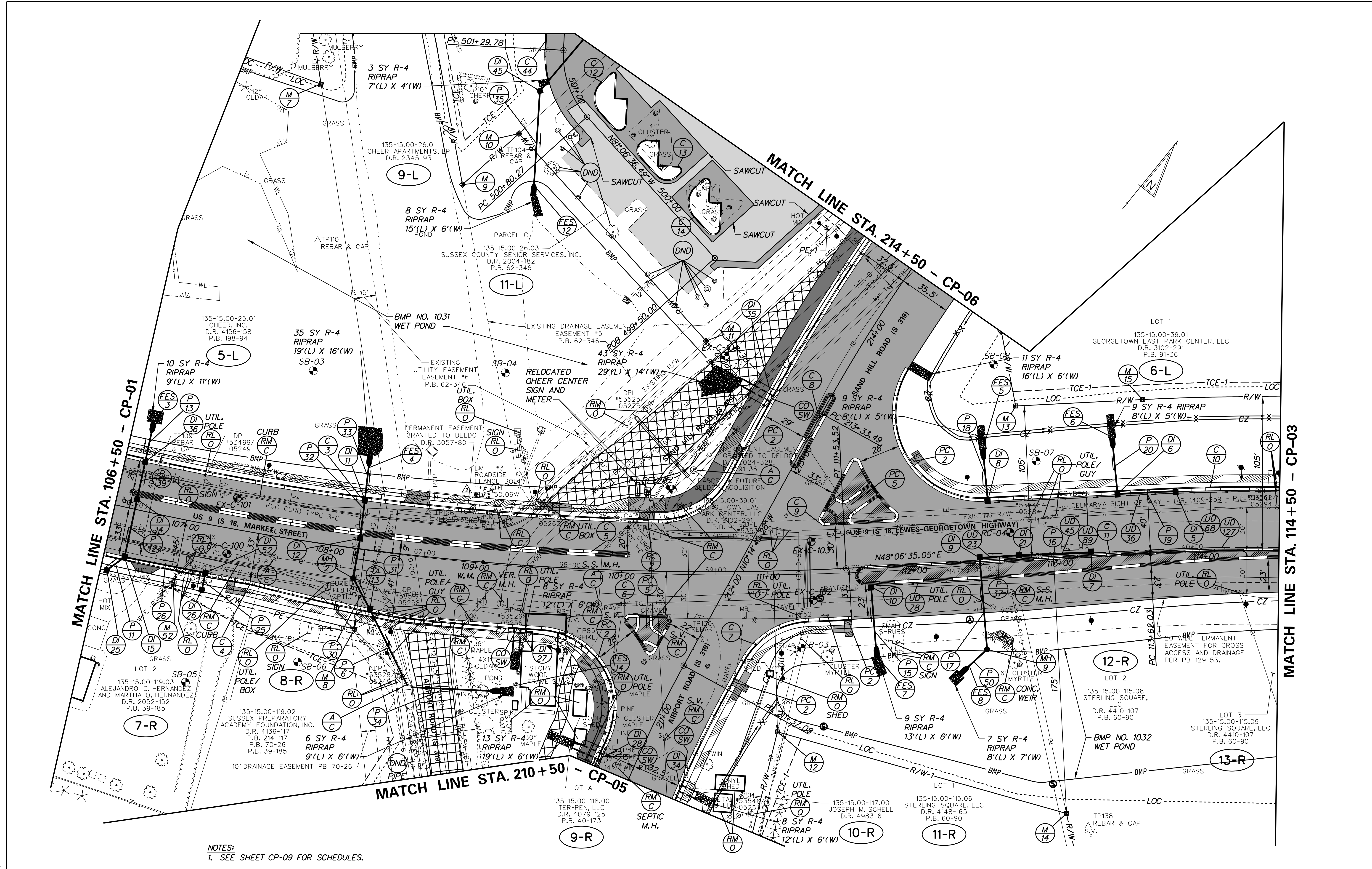


**GEORGETOWN EAST
GATEWAY IMPROVEMENTS**

CONTRACT	BRIDGE NO.
T201804301	
COUNTY	DESIGNED BY: JAD
SUSSEX	CHECKED BY: RRW

**HORIZONTAL AND
VERTICAL CONTROL**

HV-05
SECTION
WRA
SHEET NO.
20



NOTES:
 1. SEE SHEET CP-09 FOR SCHEDULES.

ADDENDA / REVISIONS

ADDED FIRE HYDRANT AND WATER VALVE, R. WILLS - 5/1/20



GEORGETOWN EAST
 GATEWAY IMPROVEMENTS

CONTRACT	BRIDGE NO.
T201804301	
COUNTY	DESIGNED BY: JAD
SUSSEX	CHECKED BY: RRW

CONSTRUCTION PLAN

CP-02
SECTION
WRA
SHEET NO.
23

M:\2018\04\CP02.dwg
 5/1/2020 8:56:52 AM

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.
* D1-29	210+20.98	*	*	*	*	*
* D1-30	209+69.90	*	*	*	*	*
* D1-31	207+01.66	*	*	*	*	*
* D1-32	208+47.26	*	*	*	*	*
* D1-33	209+54.59	*	*	*	*	*
* D1-40	204+97.80	*	*	*	*	*

*CURB OPENING BENEATH SIDEWALK. SEE DETAIL, SHEET DT-06

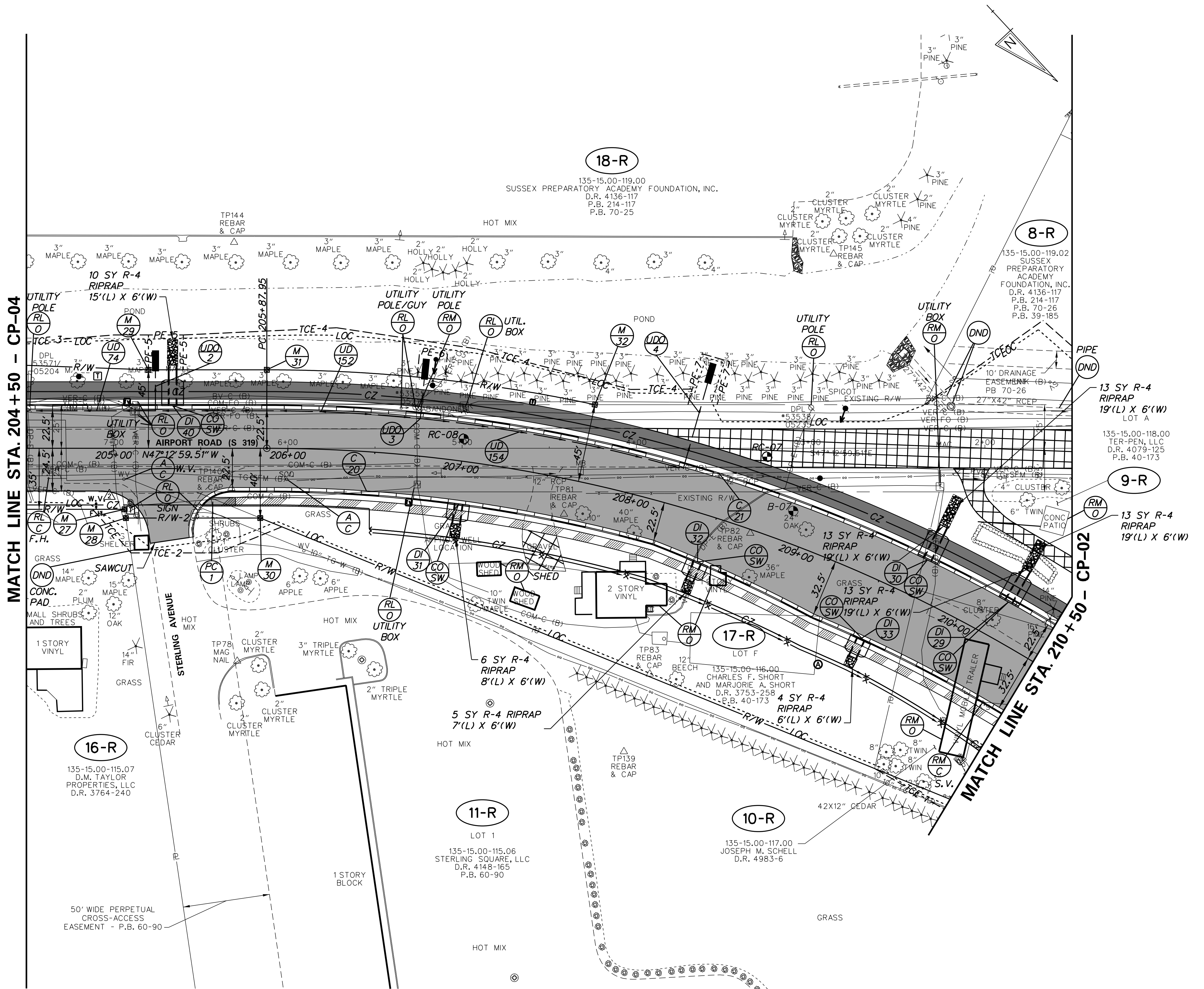
ROADWAY CORE SCHEDULE			
NO.	STATION	OFFSET	DESCRIPTION
RC-07	208+66.27	42.5' LT.	4" HMA
RC-08	206+99.64	12.9' LT.	3.5" HMA, 0.5" ST, 0.5" ATB

CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
20	I. P. C. C. CURB AND GUTTER, TYPE 1-8	511'
21	I. P. C. C. CURB AND GUTTER, TYPE 1-8	612'

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
27	CAPPED REBAR	205+06.32	35.00'	254132.5431	670431.6938
28	CAPPED REBAR	205+07.06	40.00'	254136.7135	670434.5488
29	CAPPED REBAR	205+20.00	-45.00'	254083.1193	670367.3171
30	CONCRETE	205+84.16	40.00'	254189.0846	670377.9604
31	CONCRETE	205+87.95	-45.00'	254129.2709	670317.4490
32	CAPPED REBAR	207+68.09	-45.00'	254271.8180	670192.8682

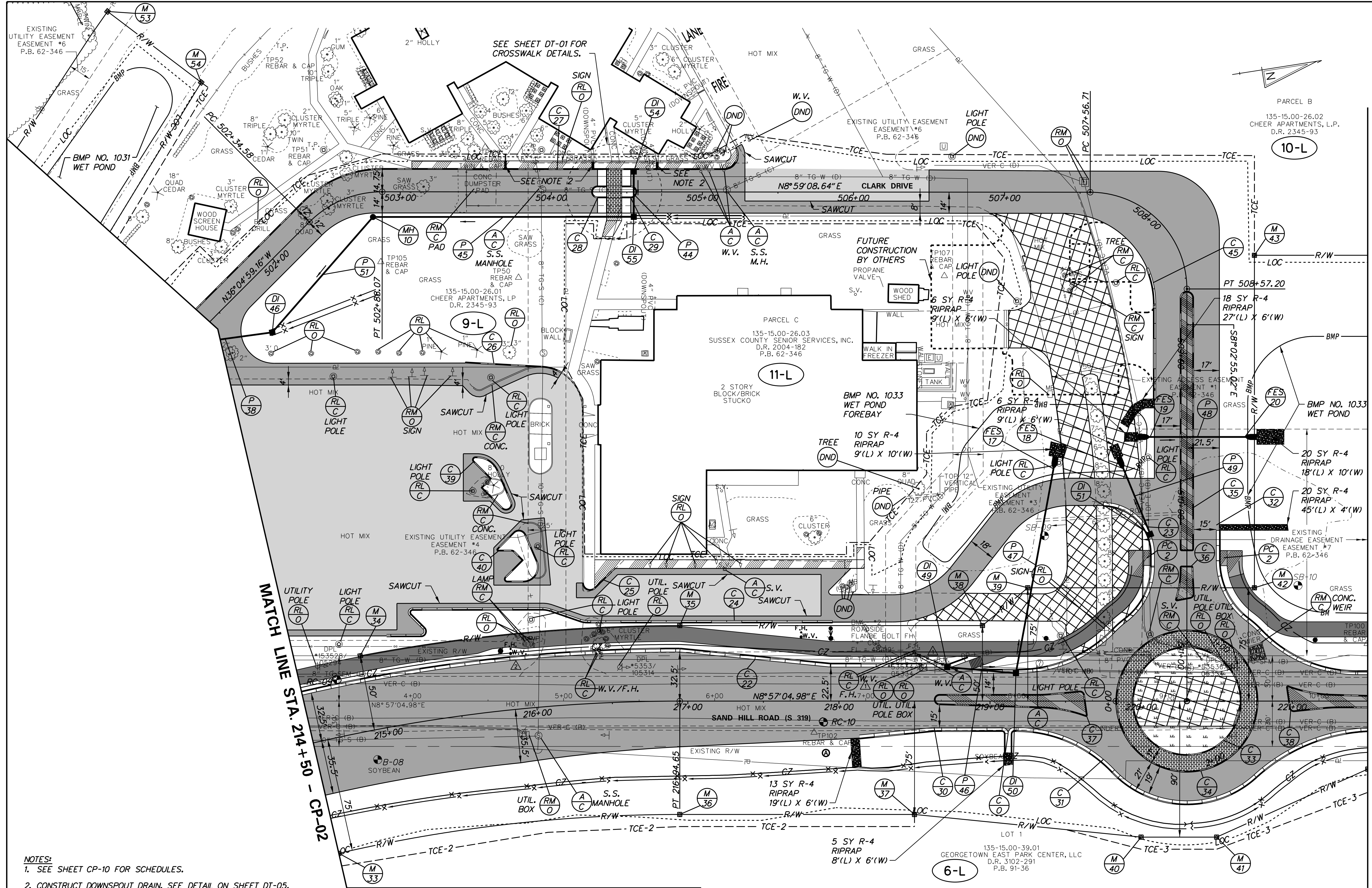
UNDERDRAIN OUTLETS		
NO.	LENGTH	DIS. EL.
2	31 LF	*
3	30 LF	*
4	59 LF	*

* TO BE SET IN FIELD.



135-15.00-115.06 CADW_CPO5.dgn
 5/1/2020 9:56:34 AM

ADDED FIRE HYDRANT AND WATER VALVE. R. WILLS - 5/1/20		SCALE 0 30 60 90 FEET		GEORGETOWN EAST GATEWAY IMPROVEMENTS		CONTRACT T201804301		BRIDGE NO. 		CONSTRUCTION PLAN	
						COUNTY SUSSEX		DESIGNED BY: JAD CHECKED BY: RRW			



NOTES:
 1. SEE SHEET CP-10 FOR SCHEDULES.
 2. CONSTRUCT DOWNSPOUT DRAIN, SEE DETAIL ON SHEET DT-05.

MATCH LINE STA. 214+50 - CP-02

MATCH LINE STA. 221+50 - CP-07

MATCH LINE STA. 214+50 - CP-02

ADDED FIRE HYDRANT AND WATER VALVE, R. WILLS - 5/1/20

ADDENDA / REVISIONS



GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	BRIDGE NO.
T201804301	
COUNTY	DESIGNED BY: JAD
SUSSEX	CHECKED BY: RRW

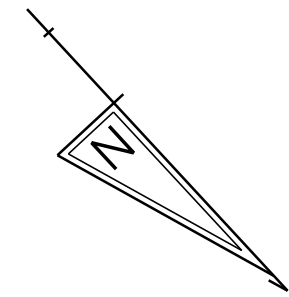
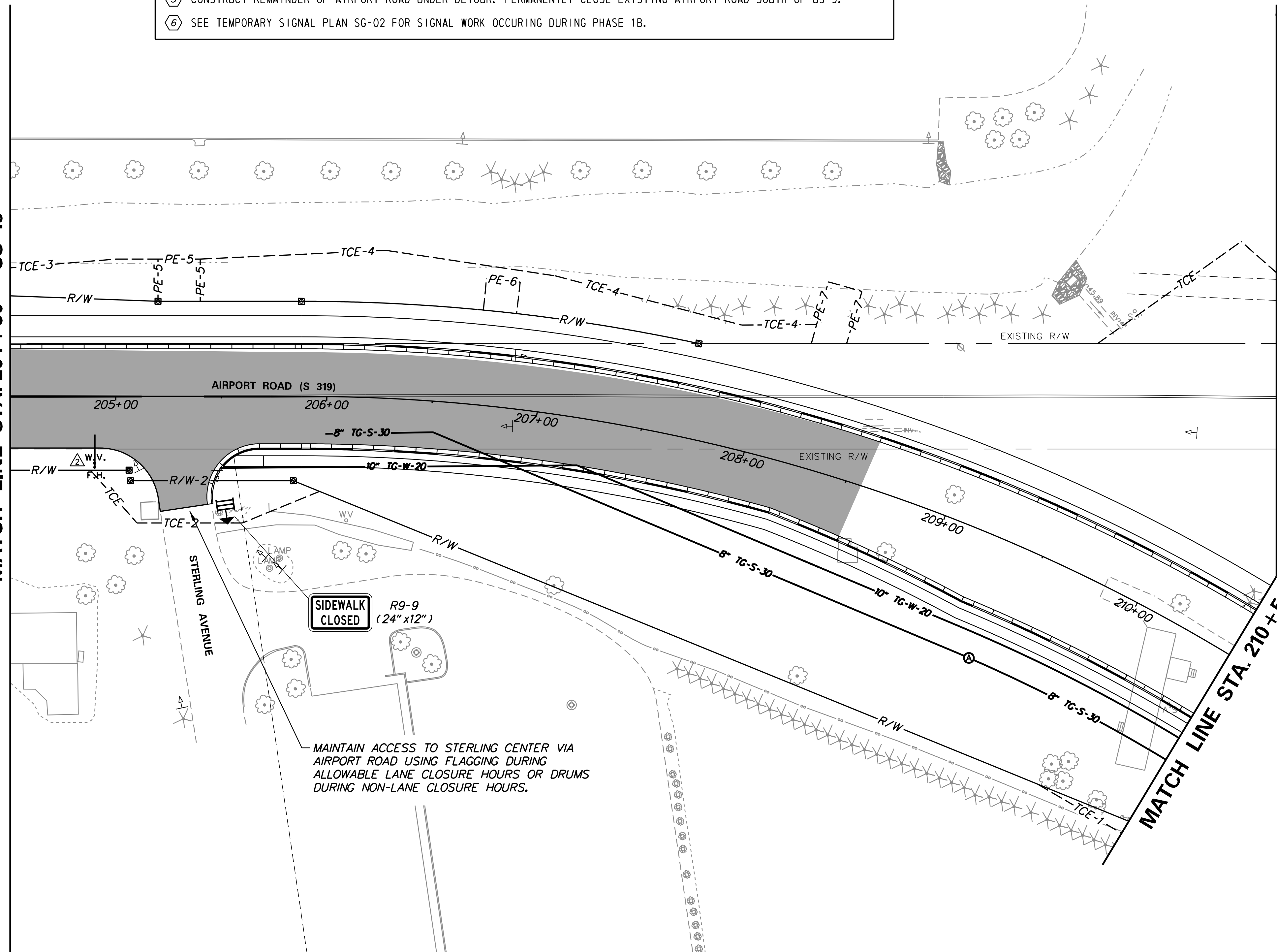
CONSTRUCTION PLAN

CP-06
SECTION
WRA
SHEET NO.
27

13-10965-015.CADD_CP06.dgn
 5/1/2020 8:56:36 AM

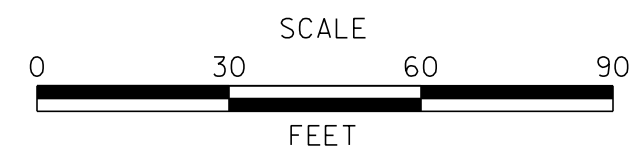
- SEQUENCE OF CONSTRUCTION - PHASE 1B
- ① MAINTAIN ALL PERMANENT WARNING SIGNS AS SHOWN ON THE PERMANENT WARNING SIGN SHEET.
 - ② INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES, SEE ES-05 TO ES-07.
 - ③ APPLY TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, SEE CS-11 TO CS-13. ERADICATE CONFLICTING STRIPING.
 - ④ SETUP VEHICULAR DETOUR PER DP-02 AND CLOSE AIRPORT ROAD (S 319) TO TRAFFIC.
 - ⑤ CONSTRUCT REMAINDER OF AIRPORT ROAD UNDER DETOUR. PERMANENTLY CLOSE EXISTING AIRPORT ROAD SOUTH OF US 9.
 - ⑥ SEE TEMPORARY SIGNAL PLAN SG-02 FOR SIGNAL WORK OCCURING DURING PHASE 1B.

MATCH LINE STA. 204+50 - CS-13



M:\1985-01\SCADD\CS12-1B.dgn
5/17/2020 8:57:05 AM

ADDENDA / REVISIONS	
▲ ADDED FIRE HYDRANT AND WATER VALVE, R. WILLS - 5/17/20	



**GEORGETOWN EAST
GATEWAY IMPROVEMENTS**

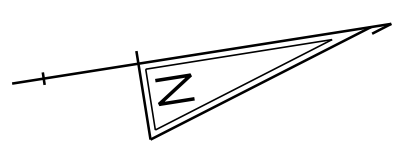
CONTRACT T201804301	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DWC
	CHECKED BY: MJB

**MAINTENANCE OF TRAFFIC
PLAN - PHASE 1B**

CS-12
SECTION WRA
SHEET NO. 82

(3) R11-2
(48" x 30")

**ROAD
CLOSED**



- SEQUENCE OF CONSTRUCTION - PHASE 2A**
- 1 MAINTAIN ALL PERMANENT WARNING SIGNS AS SHOWN ON THE PERMANENT WARNING SIGN SHEET.
 - 2 APPLY TEMPORARY STRIPING AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, SEE CS-24 TO CS-31. ERADICATE CONFLICTING STRIPING.
 - 3 INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES, SEE ES-10 TO ES-16.
 - 4 WITH US 9 TRAFFIC SHIFTED TO THE NORTH, CONSTRUCT PROPOSED EB US 9 AND REMOVE TEMPORARY PAVEMENT. CLOSE SHOULDER USING TA-3 OR USING TA-10 OR TA-11B WHEN WORKING ADJACENT TO THE SHIFTED EB US 9 TRAVEL LANE. COORDINATE WITH DART TO MAINTAIN BUS STOP ACCESS AND RESTORE DRIVEWAY CONNECTIONS USING WEDGE AT THE END OF THE WORKDAY.
 - 5 CLOSE SAND HILL ROAD NORTH OF THE EXISTING CHEER CENTER ENTRANCE AND IMPLEMENT DETOUR PLAN DP-03.
 - 6 CONSTRUCT BMP-1033, PROPOSED CLARK DRIVE, ROUNDABOUT AND PROPOSED SECTION OF SAND HILL ROAD NORTH OF EXISTING CHEER CENTER ENTRANCE UP TO FINAL PAVEMENT ELEVATION. INSTALL FINAL PAVEMENT MARKINGS AND SIGNING NORTH OF EXISTING CHEER CENTER ENTRANCE.
 - 7 USING TA-10 CONSTRUCT THE SECTION FROM STA 117+25 TO 119+50 AT THE END OF PHASE 2, THEN IMMEDIATELY SHIFT TRAFFIC FOR PHASE 3.

DRUMS @ 10 LF O.C.

R9-9
(24" x 12")

**SIDEWALK
CLOSED**

R11-2
(48" x 30")

**ROAD
CLOSED**

MATCH LINE STA. 214+50 - CS-23

DRUMS @ 10 LF O.C.

DRUMS @ 35 LF O.C.

SAND HILL ROAD (S 319)

**ROAD
CLOSED**

(2) R11-2
(48" x 30")

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	435 LF
(B)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	290 LF

INSTALL UNDERGROUND SEWER LINE
(SEE UTILITY RELOCATION PLANS)

MATCH LINE STA. 221+00 - CS-26

No. 10965-015, CAD, CS25-2A.dgn
5/1/2020 AM

ADDENDA / REVISIONS
 1. ADDED FIRE HYDRANT AND WATER VALVE, R. WILLS - 5/1/20



**GEORGETOWN EAST
GATEWAY IMPROVEMENTS**

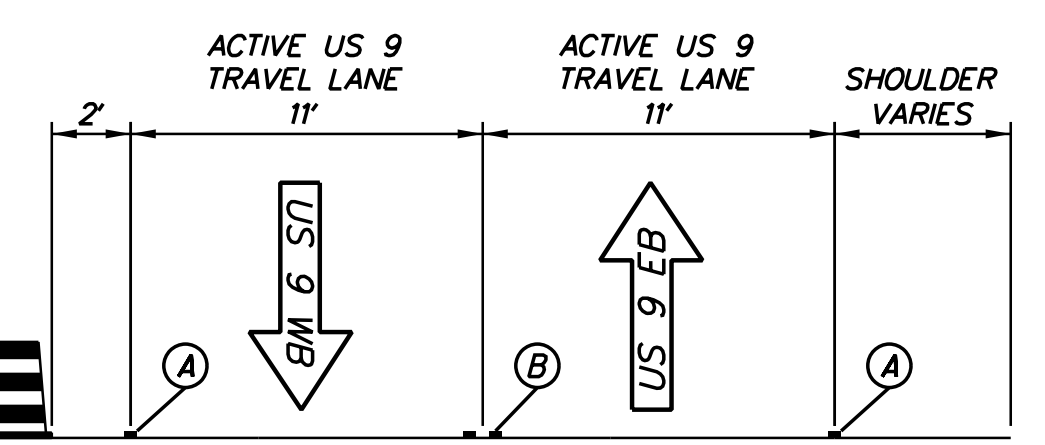
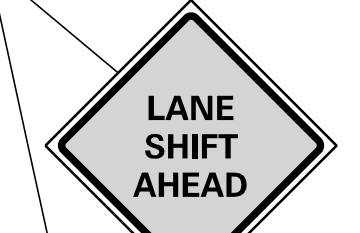
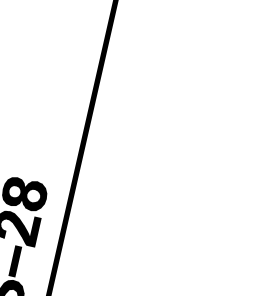
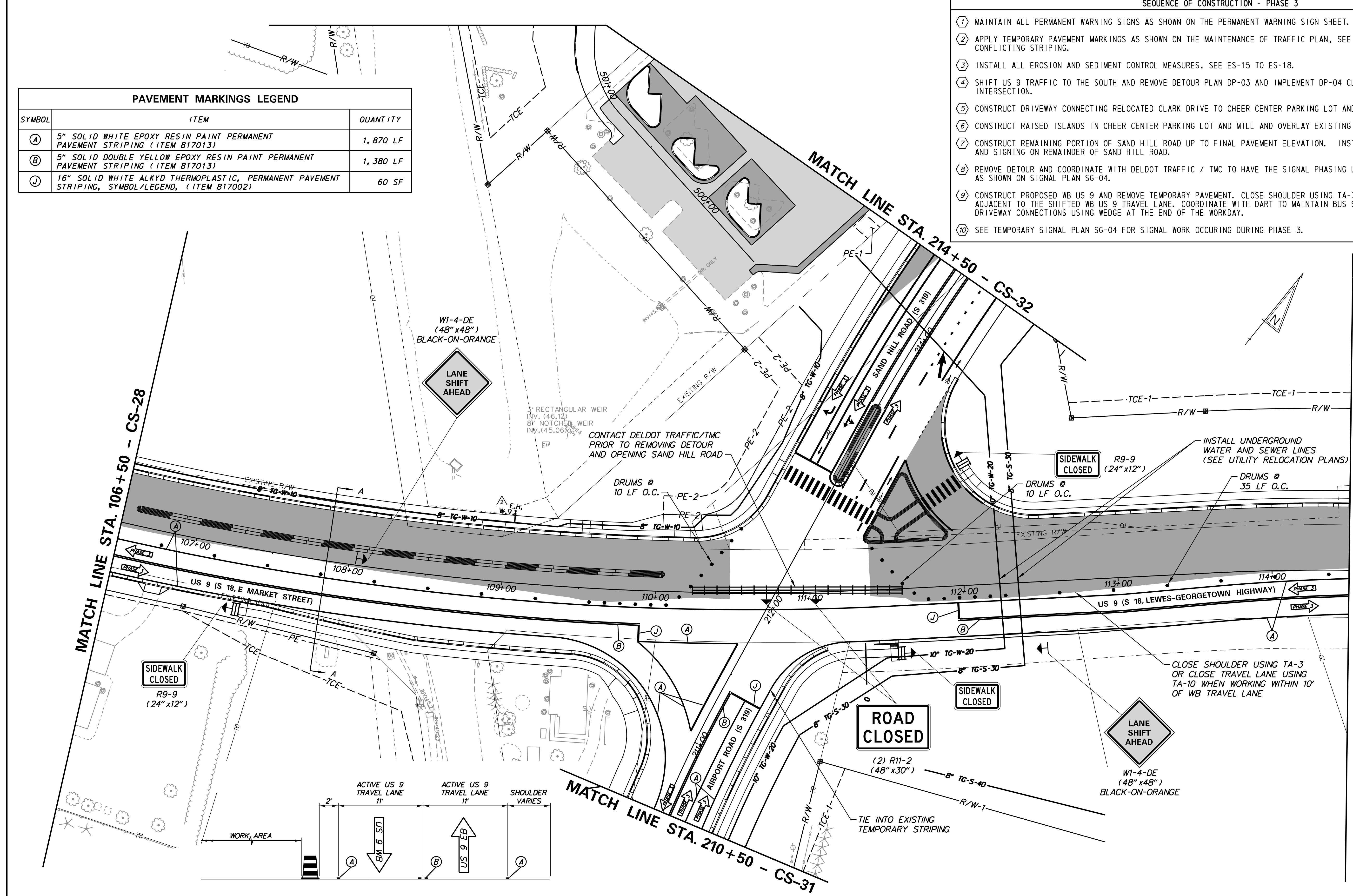
CONTRACT T201804301	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DWC
	CHECKED BY: MJB

**MAINTENANCE OF TRAFFIC
PLAN - PHASE 2A**

CS-25
SECTION WRA
SHEET NO. 95

- 1 MAINTAIN ALL PERMANENT WARNING SIGNS AS SHOWN ON THE PERMANENT WARNING SIGN SHEET.
- 2 APPLY TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, SEE CS-28 TO CS-32. ERADICATE CONFLICTING STRIPING.
- 3 INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES, SEE ES-15 TO ES-18.
- 4 SHIFT US 9 TRAFFIC TO THE SOUTH AND REMOVE DETOUR PLAN DP-03 AND IMPLEMENT DP-04 CLOSING SAND HILL ROAD AT US 9 INTERSECTION.
- 5 CONSTRUCT DRIVEWAY CONNECTING RELOCATED CLARK DRIVE TO CHEER CENTER PARKING LOT AND REMOVE EXISTING CLARK DRIVE.
- 6 CONSTRUCT RAISED ISLANDS IN CHEER CENTER PARKING LOT AND MILL AND OVERLAY EXISTING PARKING LOT.
- 7 CONSTRUCT REMAINING PORTION OF SAND HILL ROAD UP TO FINAL PAVEMENT ELEVATION. INSTALL FINAL PAVEMENT MARKINGS AND SIGNING ON REMAINDER OF SAND HILL ROAD.
- 8 REMOVE DETOUR AND COORDINATE WITH DELDOT TRAFFIC / TMC TO HAVE THE SIGNAL PHASING UPDATED TO CONFIGURATION 3A, AS SHOWN ON SIGNAL PLAN SG-04.
- 9 CONSTRUCT PROPOSED WB US 9 AND REMOVE TEMPORARY PAVEMENT. CLOSE SHOULDER USING TA-3 OR USE TA-10 WHEN WORKING ADJACENT TO THE SHIFTED WB US 9 TRAVEL LANE. COORDINATE WITH DART TO MAINTAIN BUS STOP ACCESS AND RESTORE DRIVEWAY CONNECTIONS USING WEDGE AT THE END OF THE WORKDAY.
- 10 SEE TEMPORARY SIGNAL PLAN SG-04 FOR SIGNAL WORK OCCURING DURING PHASE 3.

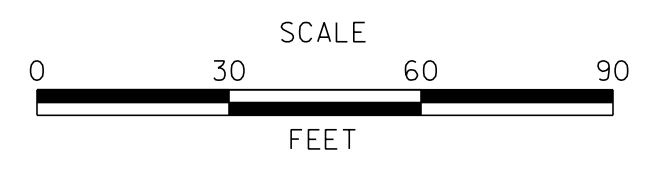
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM B17013)	1,870 LF
(B)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM B17013)	1,380 LF
(J)	16" SOLID WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, (ITEM B17002)	60 SF



SECTION A-A, US 9
NOT TO SCALE

ADDENDA / REVISIONS

ADDED FIRE HYDRANT AND WATER VALVE, R. WILLS - 5/1/20



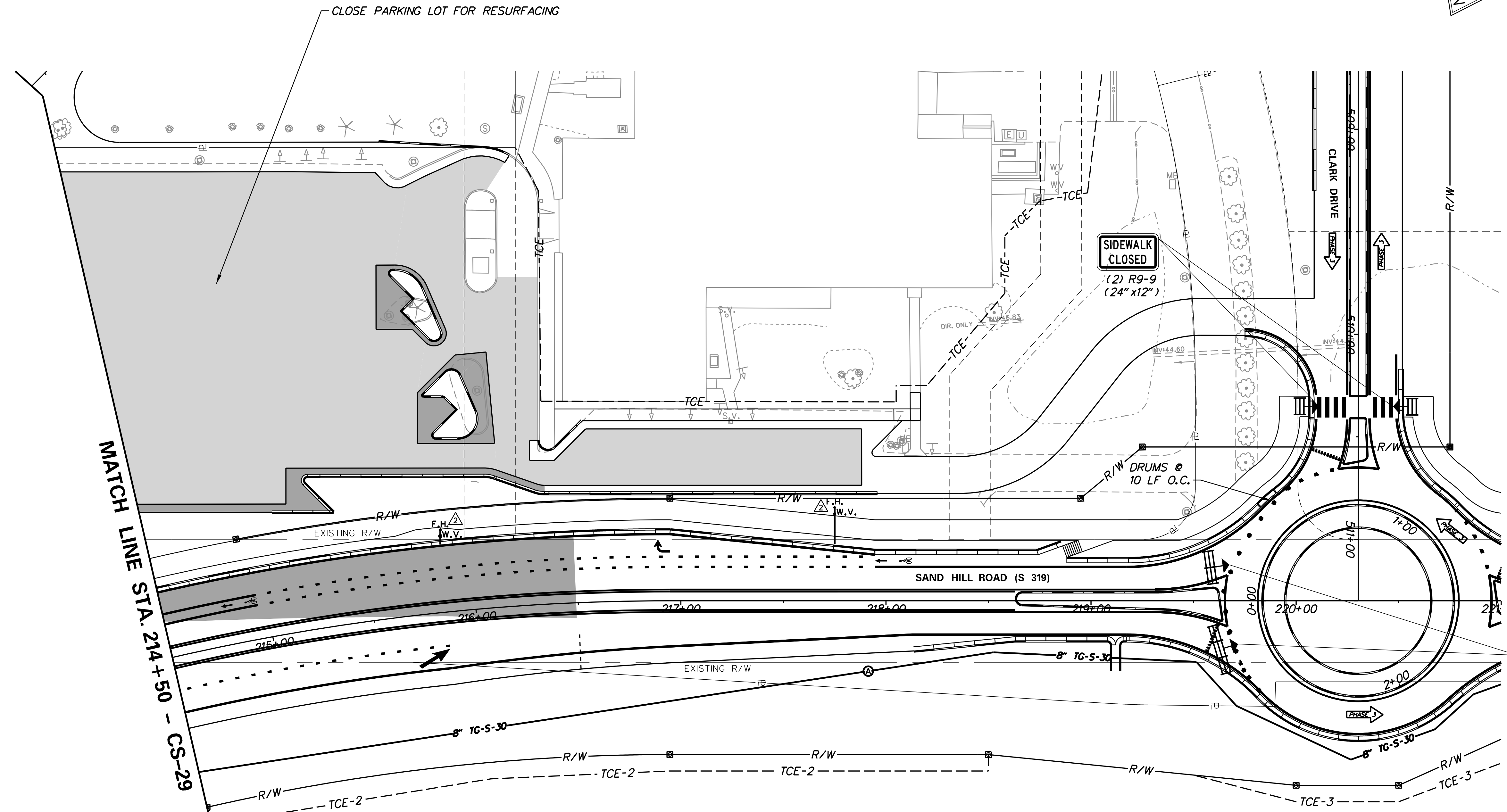
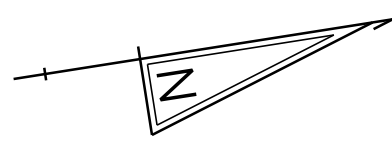
GEORGETOWN EAST
GATEWAY IMPROVEMENTS

CONTRACT T201804301	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DWC
	CHECKED BY: MJB

MAINTENANCE OF TRAFFIC
PLAN - PHASE 3

CS-29
SECTION WRA
SHEET NO. 99

M:\2018\04\301\CS-29-3.dgn
 5/1/2020 9:57:12 AM



MATCH LINE STA. 214+50 - CS-29

SIDEWALK CLOSED
(2) R9-9
(24" x 12")

ROAD CLOSED

(2) R11-2
(48" x 30")

SIGNS AND BARRICADES SHALL BE REMOVED AT THE COMPLETION OF CONSTRUCTION ON SAND HILL ROAD

- SEQUENCE OF CONSTRUCTION - PHASE 3**
- ① MAINTAIN ALL PERMANENT WARNING SIGNS AS SHOWN ON THE PERMANENT WARNING SIGN SHEET.
 - ② APPLY TEMPORARY PAVEMENT MARKINGS AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN, SEE CS-28 TO CS-32. ERADICATE CONFLICTING STRIPING.
 - ③ INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES, SEE ES-15 TO ES-18.
 - ④ SHIFT US 9 TRAFFIC TO THE SOUTH AND REMOVE DETOUR PLAN DP-03 AND IMPLEMENT DP-04 CLOSING SAND HILL ROAD AT US 9 INTERSECTION.
 - ⑤ CONSTRUCT DRIVEWAY CONNECTING RELOCATED CLARK DRIVE TO CHEER CENTER PARKING LOT AND REMOVE EXISTING CLARK DRIVE.
 - ⑥ CONSTRUCT RAISED ISLANDS IN CHEER CENTER PARKING LOT AND MILL AND OVERLAY EXISTING PARKING LOT.
 - ⑦ CONSTRUCT REMAINING PORTION OF SAND HILL ROAD UP TO FINAL PAVEMENT ELEVATION. INSTALL FINAL PAVEMENT MARKINGS AND SIGNING ON REMAINDER OF SAND HILL ROAD.
 - ⑧ REMOVE DETOUR AND COORDINATE WITH DELDOT TRAFFIC / TMC TO HAVE THE SIGNAL PHASING UPDATED TO CONFIGURATION 3A, AS SHOWN ON SIGNAL PLAN SG-04.
 - ⑨ CONSTRUCT PROPOSED WB US 9 AND REMOVE TEMPORARY PAVEMENT. CLOSE SHOULDER USING TA-3 OR USE TA-10 WHEN WORKING ADJACENT TO THE SHIFTED WB US 9 TRAVEL LANE. COORDINATE WITH DART TO MAINTAIN BUS STOP ACCESS AND RESTORE DRIVEWAY CONNECTIONS USING WEDGE AT THE END OF THE WORKDAY.
 - ⑩ SEE TEMPORARY SIGNAL PLAN SG-04 FOR SIGNAL WORK OCCURRING DURING PHASE 3.

No. 20965-015, CAD, CS22-3.dgn
5/17/2020 9:27:14 AM

ADDENDA / REVISIONS	
1	ADDED FIRE HYDRANTS AND WATER VALVES, R. WILLS - 5/17/20



**GEORGETOWN EAST
GATEWAY IMPROVEMENTS**

CONTRACT T201804301	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DWC
	CHECKED BY: MJB

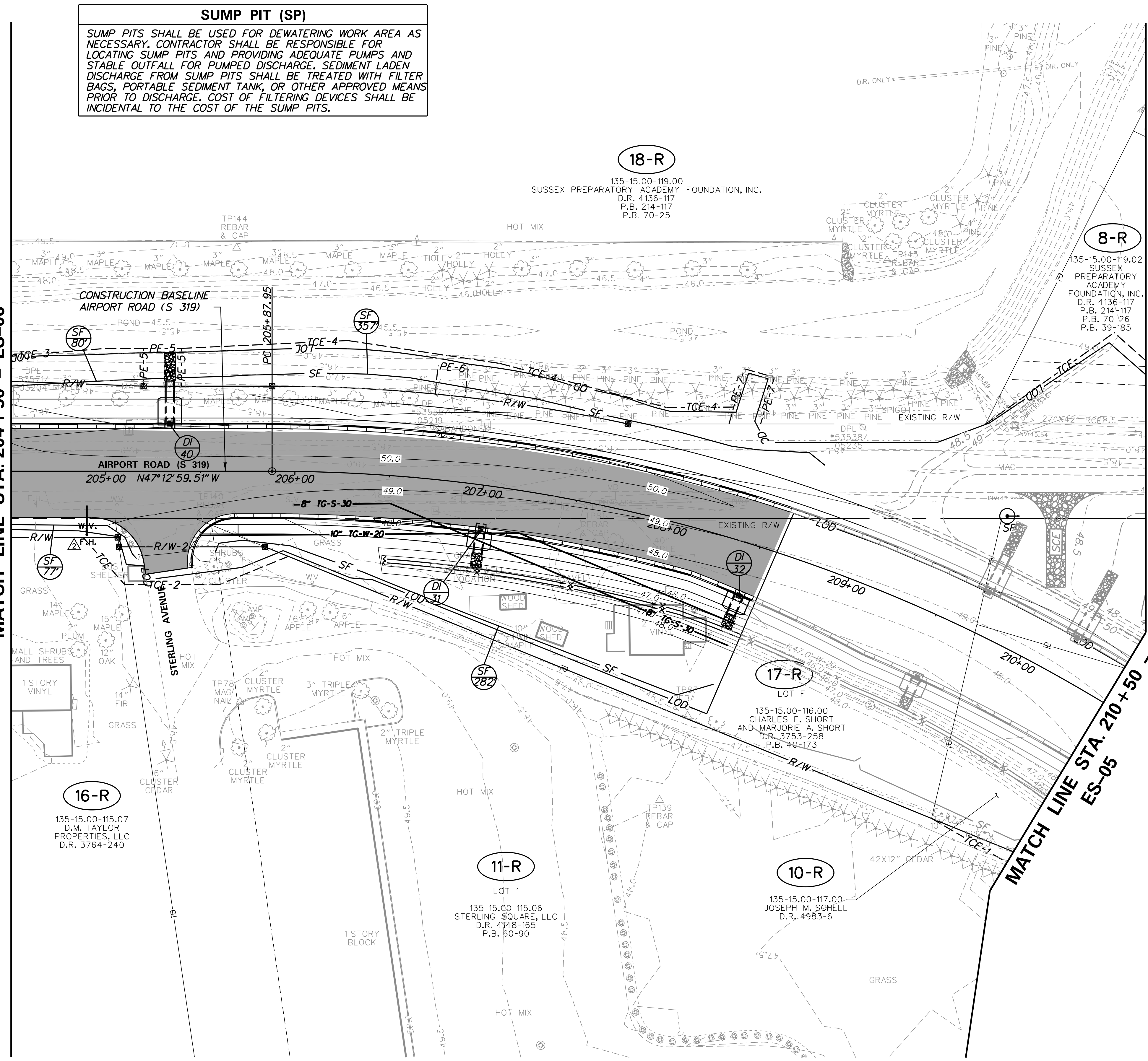
**MAINTENANCE OF TRAFFIC
PLAN - PHASE 3**

CS-32
SECTION WRA
SHEET NO. 102

SUMP PIT (SP)
 SUMP PITS SHALL BE USED FOR DEWATERING WORK AREA AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING SUMP PITS AND PROVIDING ADEQUATE PUMPS AND STABLE OUTFALL FOR PUMPED DISCHARGE. SEDIMENT LADEN DISCHARGE FROM SUMP PITS SHALL BE TREATED WITH FILTER BAGS, PORTABLE SEDIMENT TANK, OR OTHER APPROVED MEANS PRIOR TO DISCHARGE. COST OF FILTERING DEVICES SHALL BE INCIDENTAL TO THE COST OF THE SUMP PITS.

MATCH LINE STA. 204+50 - ES-06

MATCH LINE STA. 210+50 - ES-05



NOTES:
 1. INLET PROTECTION FOR CURB OPENING INLETS SHALL CONSIST OF 8 FOOT LONG, 12 INCH DIAMETER COMPOST FILTER LOG PLACED IN GUTTER FLOWLINE AND CENTERED ACROSS CURB OPENING. THE INLET PROTECTION SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH (ONE PER INLET) FOR INLET SEDIMENT CONTROL, CURB INLET (905005).

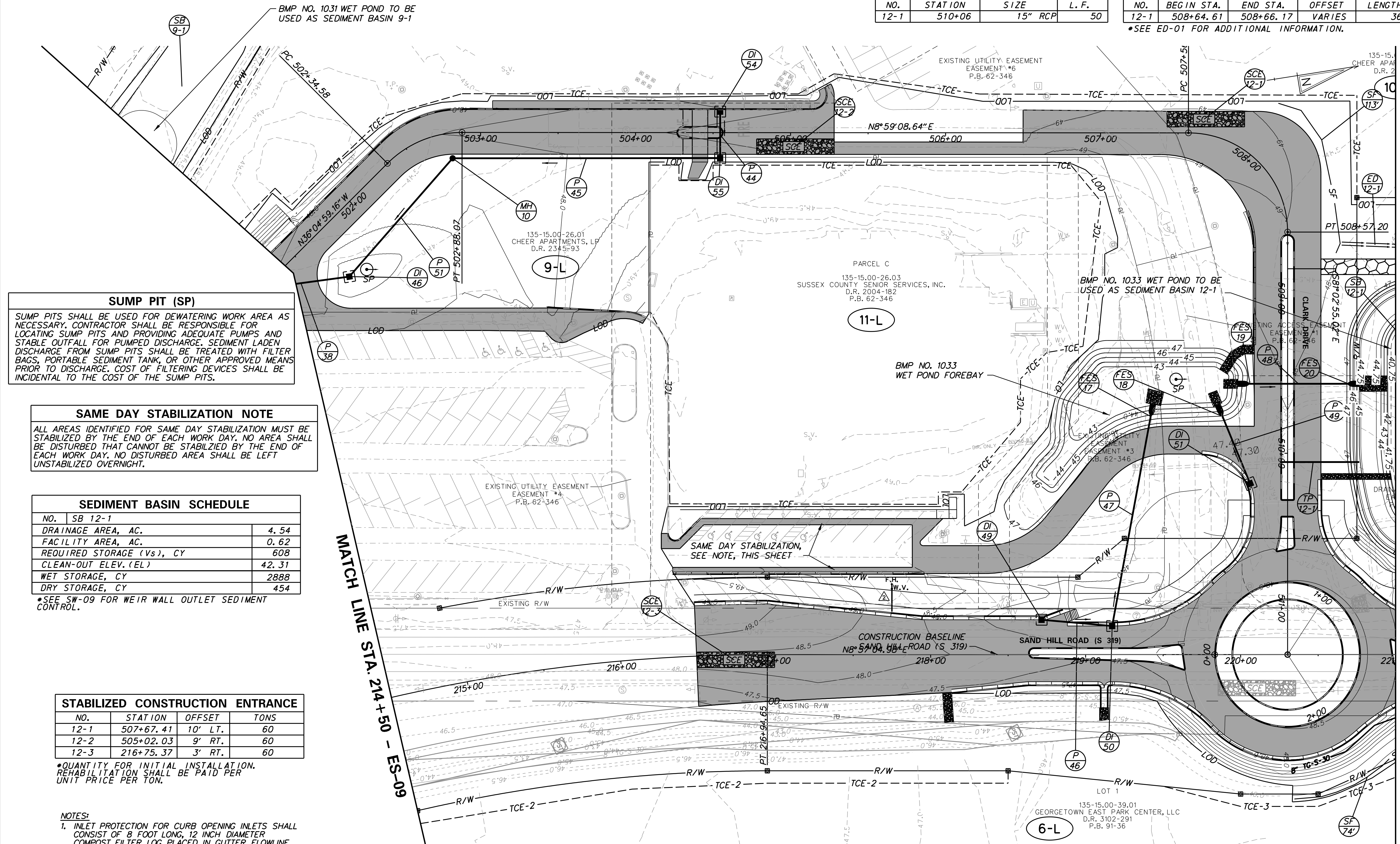
135-15-00-115-07.dwg
 5/1/2020

ADDENDA / REVISIONS		SCALE 0 30 60 90 FEET	GEORGETOWN EAST GATEWAY IMPROVEMENTS	CONTRACT T201804301	BRIDGE NO.	EROSION AND SEDIMENT CONTROL PLAN MOT STAGE 1B	ES-07
ADDED FIRE HYDRANT AND WATER VALVE, R. WILLS - 5/1/20				COUNTY SUSSEX	DESIGNED BY: BPG		SECTION WRA
				CHECKED BY: JDC		SHEET NO. 118	

TEMPORARY PIPE			
NO.	STATION	SIZE	L. F.
12-1	510+06	15" RCP	50

EARTH DIKE					
NO.	BEGIN STA.	END STA.	OFFSET	LENGTH	*TYPE
12-1	508+64.61	508+66.17	VARIABLES	36'	A-1

*SEE ED-01 FOR ADDITIONAL INFORMATION.



SUMP PIT (SP)

SUMP PITS SHALL BE USED FOR DEWATERING WORK AREA AS NECESSARY. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING SUMP PITS AND PROVIDING ADEQUATE PUMPS AND STABLE OUTFALL FOR PUMPED DISCHARGE. SEDIMENT LADEN DISCHARGE FROM SUMP PITS SHALL BE TREATED WITH FILTER BAGS, PORTABLE SEDIMENT TANK, OR OTHER APPROVED MEANS PRIOR TO DISCHARGE. COST OF FILTERING DEVICES SHALL BE INCIDENTAL TO THE COST OF THE SUMP PITS.

SAME DAY STABILIZATION NOTE

ALL AREAS IDENTIFIED FOR SAME DAY STABILIZATION MUST BE STABILIZED BY THE END OF EACH WORK DAY. NO AREA SHALL BE DISTURBED THAT CANNOT BE STABILIZED BY THE END OF EACH WORK DAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.

SEDIMENT BASIN SCHEDULE

NO.	SB 12-1	
DRAINAGE AREA, AC.		4.54
FACILITY AREA, AC.		0.62
REQUIRED STORAGE (Vs), CY		608
CLEAN-OUT ELEV. (EL)		42.31
WET STORAGE, CY		2888
DRY STORAGE, CY		454

*SEE SW-09 FOR WEIR WALL OUTLET SEDIMENT CONTROL.

STABILIZED CONSTRUCTION ENTRANCE

NO.	STATION	OFFSET	TONS
12-1	507+67.41	10' LT.	60
12-2	505+02.03	9' RT.	60
12-3	216+75.37	3' RT.	60

*QUANTITY FOR INITIAL INSTALLATION. REHABILITATION SHALL BE PAID PER UNIT PRICE PER TON.

NOTES:

- INLET PROTECTION FOR CURB OPENING INLETS SHALL CONSIST OF 8 FOOT LONG, 12 INCH DIAMETER COMPOST FILTER LOG PLACED IN GUTTER FLOWLINE AND CENTERED ACROSS CURB OPENING. THE INLET PROTECTION SHALL BE PAID AT THE CONTRACT UNIT PRICE PER EACH (ONE PER INLET) FOR INLET SEDIMENT CONTROL, CURB INLET (905005).

MATCH LINE STA. 214+50 - ES-09

MATCH LINE STA. 221+00 - ES-13

ADDENDA / REVISIONS

ADDED FIRE HYDRANT AND WATER VALVE. R. WILLS - 5/1/20



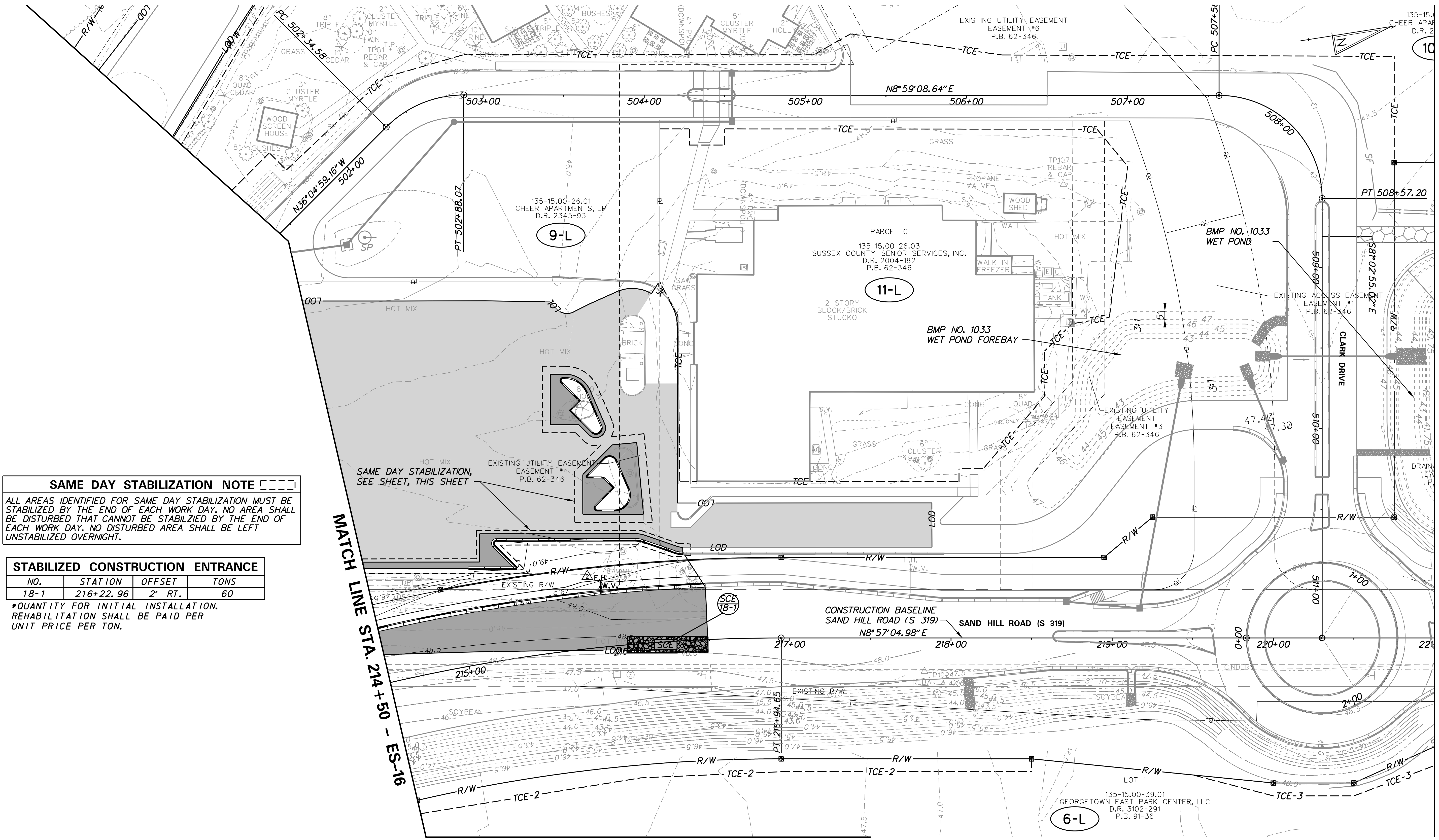
GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	T201804301
COUNTY	SUSSEX
BRIDGE NO.	
DESIGNED BY:	BPG
CHECKED BY:	JDC

EROSION AND SEDIMENT CONTROL PLAN MOT STAGE 2, 2A

ES-12

SECTION	WRA
SHEET NO.	123



SAME DAY STABILIZATION NOTE

ALL AREAS IDENTIFIED FOR SAME DAY STABILIZATION MUST BE STABILIZED BY THE END OF EACH WORK DAY. NO AREA SHALL BE DISTURBED THAT CANNOT BE STABILIZED BY THE END OF EACH WORK DAY. NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.

STABILIZED CONSTRUCTION ENTRANCE

NO.	STATION	OFFSET	TONS
18-1	216+22.96	2' RT.	60

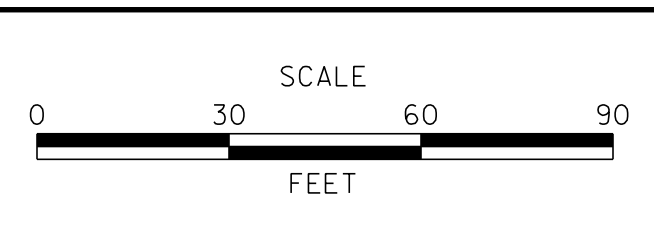
*QUANTITY FOR INITIAL INSTALLATION. REHABILITATION SHALL BE PAID PER UNIT PRICE PER TON.

MATCH LINE STA. 214+50 - ES-16

17/2020

ADDENDA / REVISIONS

1	ADDED FIRE HYDRANT AND WATER VALVE. R. WILLS - 5/1/20
---	---



GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	T201804301
COUNTY	SUSSEX
BRIDGE NO.	
DESIGNED BY:	BPG
CHECKED BY:	JDC

EROSION AND SEDIMENT CONTROL PLAN MOT STAGE 3

ES-18
SECTION
WRA
SHEET NO.
129

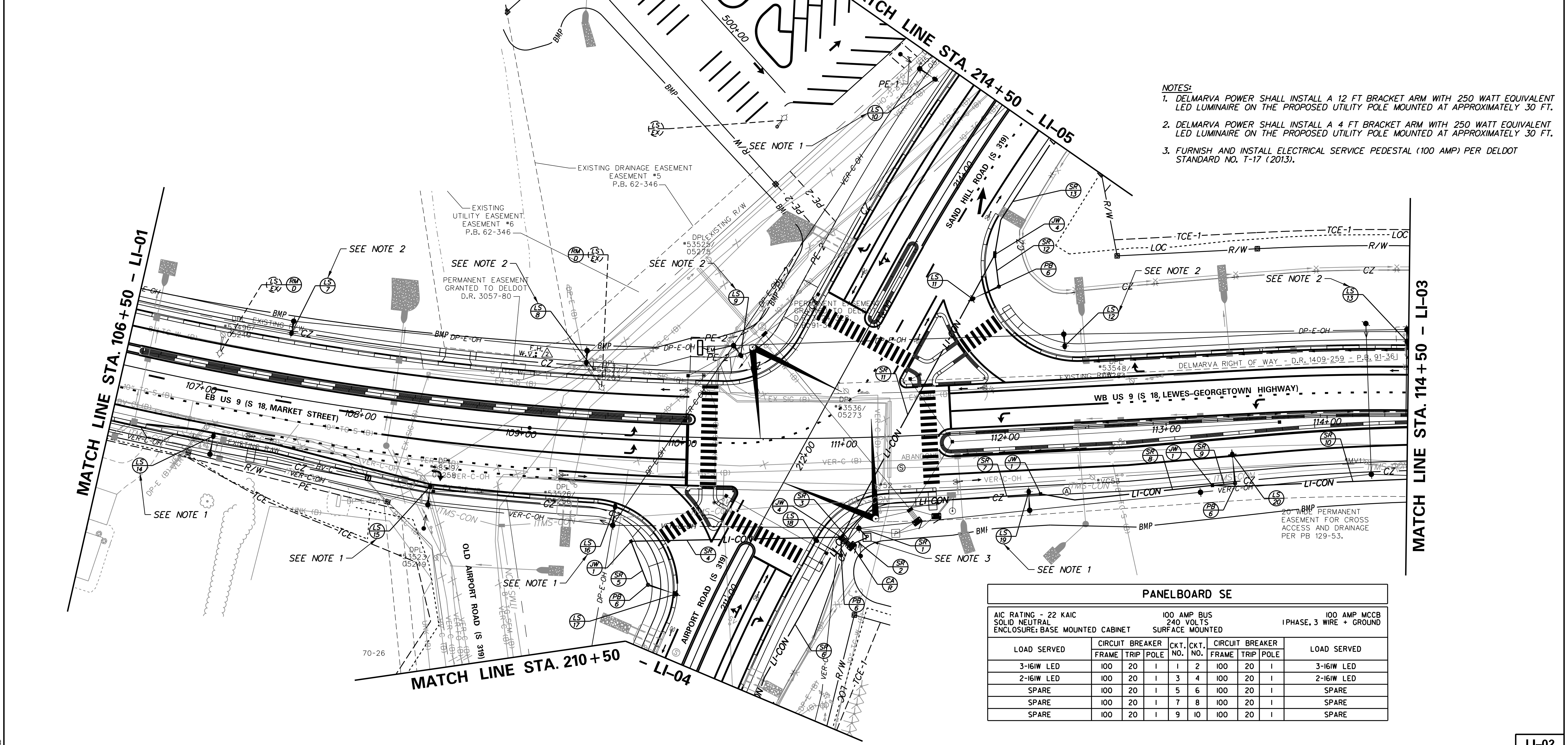
LIGHTING SERVICE SCHEDULE					
SERVICE RUN	# OF CONDUITS	SIZE	DISTANCE	DESCRIPTION	INSTALLATION
1*	1	2.0"	8'	(3)#2, (1)#2 GROUND - LINE SIDE	TRENCH
2*	1	2.0"	10'	(3)#2, (1)#2 GROUND - LOAD SIDE	TRENCH
3	4	4.0"	8'	(8)#6, (4)#6 GROUND	TRENCH
4	1	4.0"	131'	(2)#6, (1)#6 GROUND	TRENCH
5	1	3.0"	29'	(2)#6, (1)#6 GROUND	TRENCH
6	1	3.0"	182' **	(2)#6, (1)#6 GROUND	TRENCH
7	1	4.0"	133'	(4)#6, (1)#6 GROUND	TRENCH
8	1	4.0"	108'	(4)#6, (1)#6 GROUND	TRENCH
9	1	3.0"	15'	(2)#6, (1)#6 GROUND	TRENCH
10	1	3.0"	191' **	(2)#6, (1)#6 GROUND	TRENCH
11	1	4.0"	200'	(4)#6, (1)#6 GROUND	BORE
12	1	3.0"	20'	(2)#6, (1)#6 GROUND	TRENCH
13	1	4.0"	107' **	(4)#6, (1)#6 GROUND	TRENCH

NOTE: SERVICE RUN DISTANCE REFLECTS CONDUIT LENGTH ONLY.
 * RIGID GALVANIZED STEEL CONDUIT
 ** SERVICE RUN CONTINUES TO ADJACENT SHEET

LIGHTING STANDARD SCHEDULE						
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD
7	N/A	107+49.4	47.1' LT.	30'	4'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
8	N/A	109+37.3	50.5' LT.	30'	4'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
9	N/A	110+30.7	57.4' LT.	30'	4'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
10	N/A	214+39.5	54.9' LT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
11	2	213+50.8	58.5' RT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION
12	N/A	112+39.5	58.1' LT.	30'	4'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
13	N/A	114+48.9	53.0' LT.	30'	4'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
14	N/A	107+13.0	43.3' RT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
15	N/A	108+47.8	53.7' RT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
16	N/A	109+59.7	56.6' RT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
17	3	210+85.8	44.8' LT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION
18	1	211+56.7	53.1' RT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION
19	N/A	112+12.8	49.9' RT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
20	3	113+40.9	39.7' RT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION

● DENOTES LIGHTING STANDARD TO BE INSTALLED ON PROPOSED DELMARVA UTILITY POLE.
 ◆ DENOTES LIGHTING STANDARD TO BE INSTALLED ON PROPOSED VERIZON UTILITY POLE.

NOTES:
 1. DELMARVA POWER SHALL INSTALL A 12 FT BRACKET ARM WITH 250 WATT EQUIVALENT LED LUMINAIRE ON THE PROPOSED UTILITY POLE MOUNTED AT APPROXIMATELY 30 FT.
 2. DELMARVA POWER SHALL INSTALL A 4 FT BRACKET ARM WITH 250 WATT EQUIVALENT LED LUMINAIRE ON THE PROPOSED UTILITY POLE MOUNTED AT APPROXIMATELY 30 FT.
 3. FURNISH AND INSTALL ELECTRICAL SERVICE PEDESTAL (100 AMP) PER DELDOT STANDARD NO. T-17 (2013).



PANELBOARD SE											
AIC RATING - 22 KAIC		100 AMP BUS				240 VOLTS				1PHASE, 3 WIRE + GROUND	
SOLID NEUTRAL		SURFACE MOUNTED									
ENCLOSURE: BASE MOUNTED CABINET											
LOAD SERVED	CIRCUIT FRAME	BREAKER TRIP	POLE	CKT. NO.	CKT. NO.	CIRCUIT FRAME	BREAKER TRIP	POLE	CKT. NO.	LOAD SERVED	
3-161W LED	100	20	1	1	2	100	20	1	3	3-161W LED	
2-161W LED	100	20	1	3	4	100	20	1	5	2-161W LED	
SPARE	100	20	1	5	6	100	20	1	7	SPARE	
SPARE	100	20	1	7	8	100	20	1	9	SPARE	
SPARE	100	20	1	9	10	100	20	1	10	SPARE	

ADDENDA / REVISIONS
ADDED FIRE HYDRANT AND WATER VALVE. R. WILLS - 5/1/20



GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	BRIDGE NO.
T201804301	
COUNTY	DESIGNED BY: DWC
SUSSEX	CHECKED BY: MJB

LIGHTING PLAN

LI-02
SECTION
WRA
SHEET NO.
133

M:\2018\04\301\02.dgn
 5/1/2020
 R. WILLS

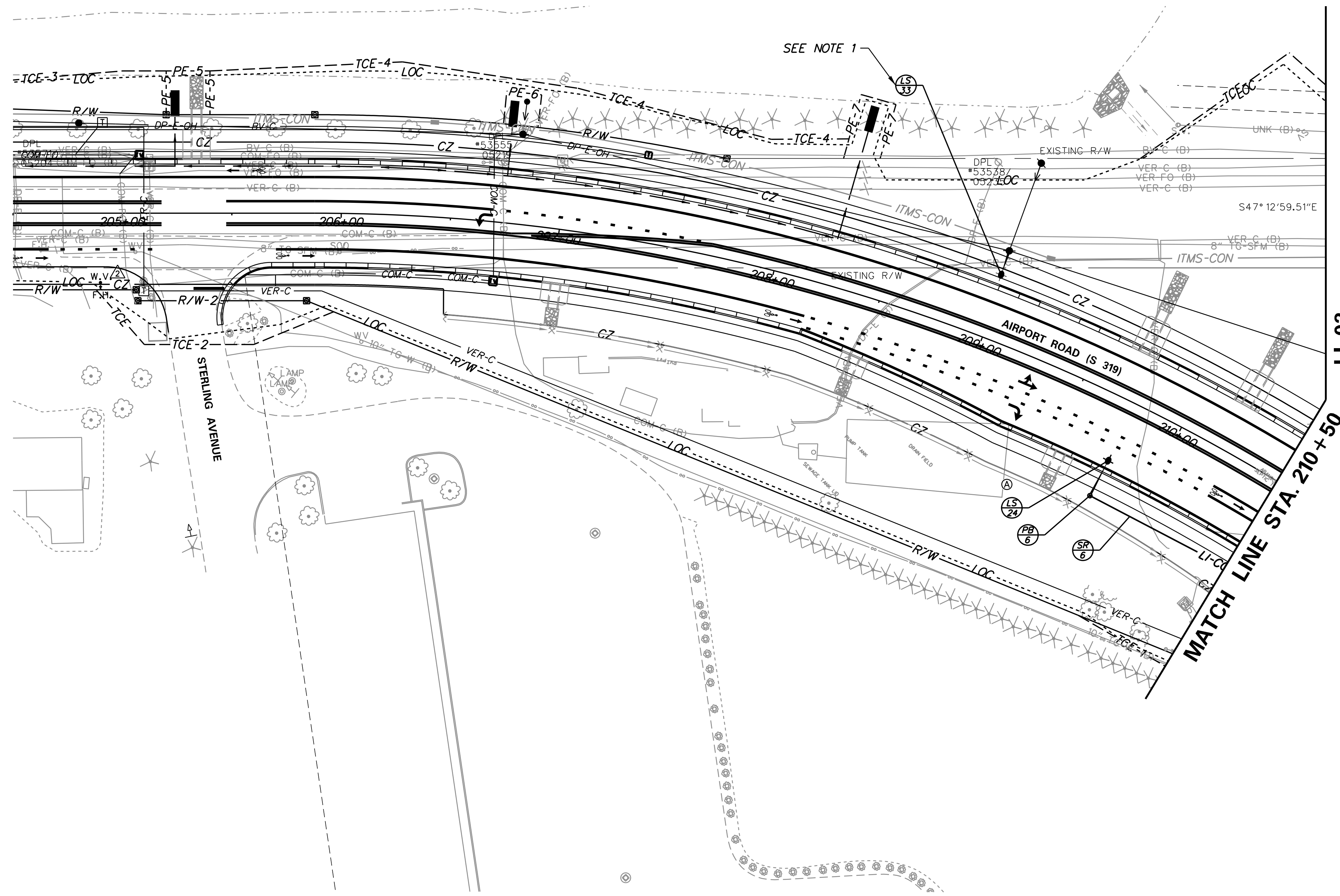
NOTE:
 1. DELMARVA POWER SHALL INSTALL A 12 FT BRACKET ARM WITH 250 WATT EQUIVALENT LED LUMINAIRE ON THE PROPOSED UTILITY POLE MOUNTED AT APPROXIMATELY 30 FT.

LIGHTING STANDARD SCHEDULE						
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD
24	1	209+76.1	46.9' RT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION
33	N/A	208+97.5	41.1' LT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT

● DENOTES LIGHTING STANDARD TO BE INSTALLED ON PROPOSED DELMARVA UTILITY POLE.

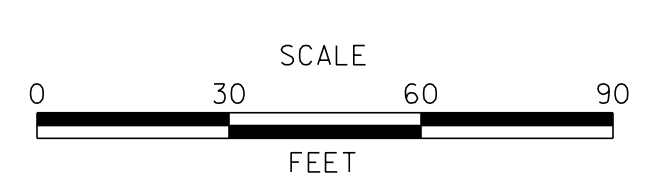
LIGHTING SERVICE SCHEDULE					
SERVICE RUN	# OF CONDUITS	SIZE	DISTANCE	DESCRIPTION	INSTALLATION
6	1	3.0"	182' **	(2)*6, (1)*6 GROUND	TRENCH

NOTE: SERVICE RUN DISTANCE REFLECTS CONDUIT LENGTH ONLY.
 * RIGID GALVANIZED STEEL CONDUIT
 ** SERVICE RUN CONTINUES TO ADJACENT SHEET



No. 10965-015-CADD-104.dgn
 5/17/2020 9:57:49 AM

ADDENDA / REVISIONS
△ ADDED FIRE HYDRANT AND WATER VALVE. R. WILLS - 5/1/20

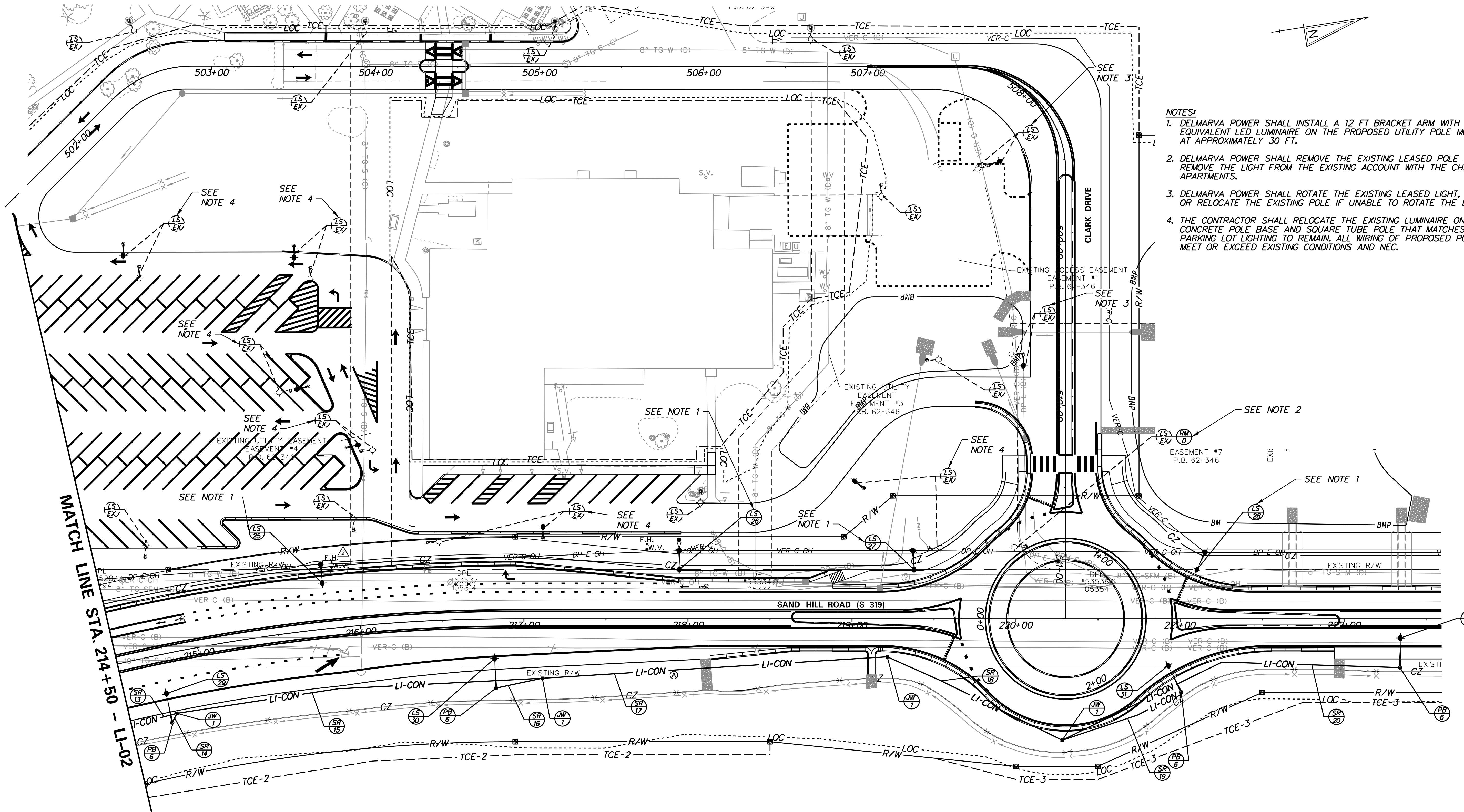


**GEORGETOWN EAST
 GATEWAY IMPROVEMENTS**

CONTRACT T201804301	BRIDGE NO.
COUNTY SUSSEX	DESIGNED BY: DWC
	CHECKED BY: MJB

LIGHTING PLAN

LI-04
SECTION WRA
SHEET NO. 135



- NOTES:**
1. DELMARVA POWER SHALL INSTALL A 12 FT BRACKET ARM WITH 250 WATT EQUIVALENT LED LUMINAIRE ON THE PROPOSED UTILITY POLE MOUNTED AT APPROXIMATELY 30 FT.
 2. DELMARVA POWER SHALL REMOVE THE EXISTING LEASED POLE AND LIGHT AND REMOVE THE LIGHT FROM THE EXISTING ACCOUNT WITH THE CHEER CENTER APARTMENTS.
 3. DELMARVA POWER SHALL ROTATE THE EXISTING LEASED LIGHT, AS SHOWN, OR RELOCATE THE EXISTING POLE IF UNABLE TO ROTATE THE EXISTING LIGHT.
 4. THE CONTRACTOR SHALL RELOCATE THE EXISTING LUMINAIRE ONTO A NEW CONCRETE POLE BASE AND SQUARE TUBE POLE THAT MATCHES THE EXISTING PARKING LOT LIGHTING TO REMAIN. ALL WIRING OF PROPOSED POLES SHALL MEET OR EXCEED EXISTING CONDITIONS AND NEC.

LIGHTING STANDARD SCHEDULE						
NO.	CIRCUIT NO.	STATION	OFFSET	HEIGHT	ARM	LIGHT STANDARD
25	N/A	215+80.0	39.5' LT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
26	N/A	217+94.7	41.5' LT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
27	N/A	219+37.1	41.5' LT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
28	N/A	221+15.2	40.5' LT.	30'	12'	250 W HPS EQUIVALENT LED UTILITY OWNED LEASED LIGHT
29	4	214+75.6	42.0' RT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION
30	2	216+82.5	42.2' RT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION
31	4	221+00.7	44.8' RT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION
32	2	222+34.0	29.7' RT.	40'	15'	161 W LED, IES TYPE 2 DISTRIBUTION

● DENOTES LIGHTING STANDARD TO BE INSTALLED ON PROPOSED DELMARVA UTILITY POLE.

LIGHTING SERVICE SCHEDULE						
SERVICE RUN	# OF CONDUITS	SIZE	DISTANCE	DESCRIPTION	INSTALLATION	
13	1	4.0"	107' **	(4)*6, (1)*6 GROUND	TRENCH	
14	1	3.0"	5'	(2)*6, (1)*6 GROUND	TRENCH	
15	1	4.0"	222'	(4)*6, (1)*6 GROUND	TRENCH	
16	1	3.0"	29'	(2)*6, (1)*6 GROUND	TRENCH	
17	1	4.0"	209'	(4)*6, (1)*6 GROUND	TRENCH	
18	1	4.0"	116'	(4)*6, (1)*6 GROUND	TRENCH	
19	1	3.0"	78'	(2)*6, (1)*6 GROUND	TRENCH	
20	1	3.0"	216'	(2)*6, (1)*6 GROUND	TRENCH	

NOTE: SERVICE RUN DISTANCE REFLECTS CONDUIT LENGTH ONLY.
 ** SERVICE RUN CONTINUES TO ADJACENT SHEET

M:\2018\201804301\GEORGETOWN EAST GATEWAY IMPROVEMENTS\LI-05.dwg
 5/11/2020 10:53:44 AM

ADDED FIRE HYDRANT AND WATER VALVE. R. WILLS - 5/11/20

ADDENDA / REVISIONS



GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT: T201804301
 COUNTY: SUSSEX
 BRIDGE NO.:
 DESIGNED BY: DWC
 CHECKED BY: MJB

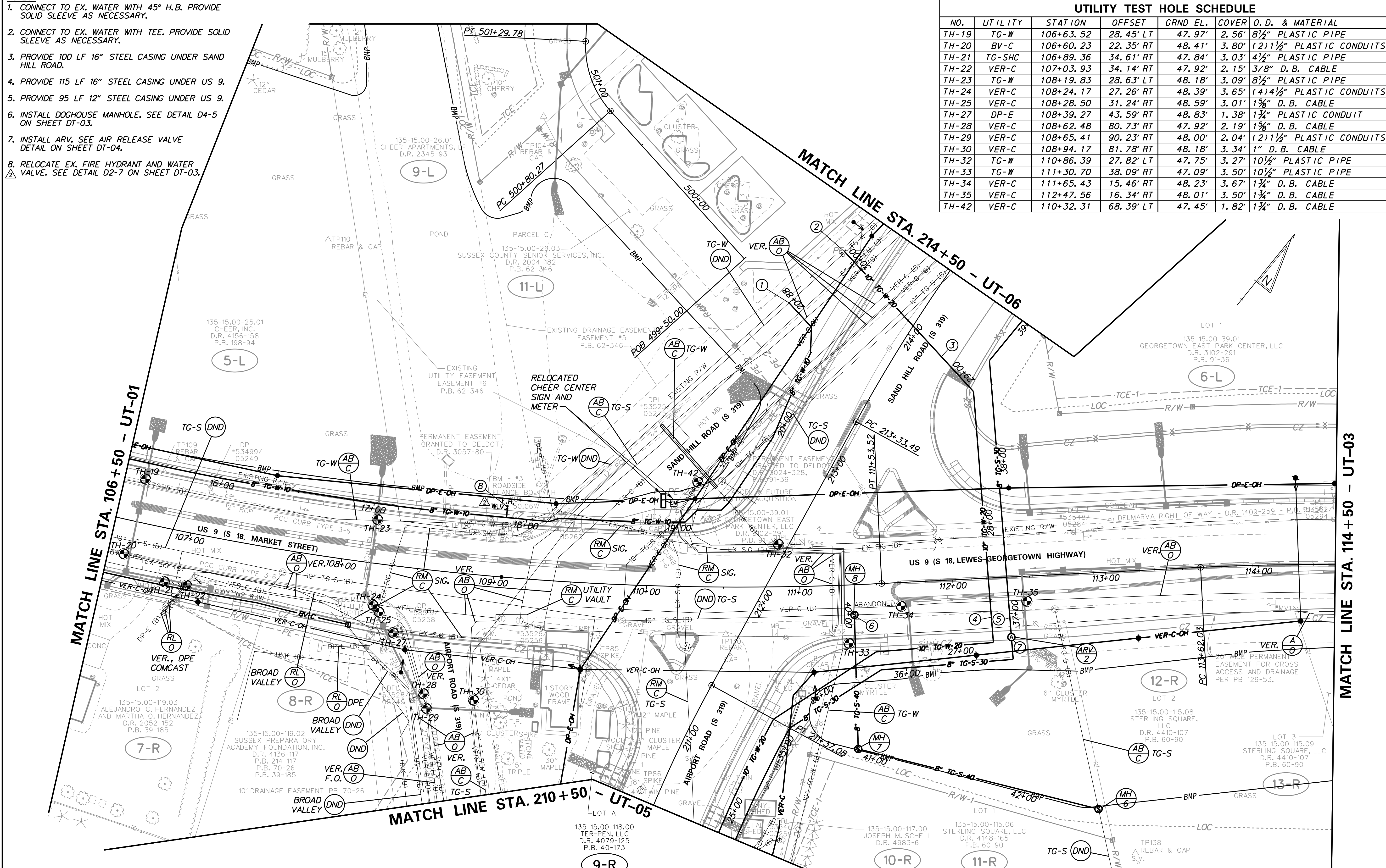
LIGHTING PLAN

LI-05
 SECTION: WRA
 SHEET NO.: 136

NOTES:

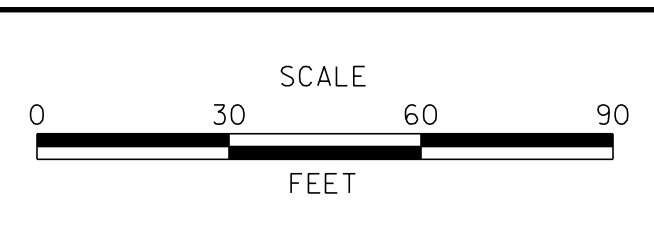
- CONNECT TO EX. WATER WITH 45° H.B. PROVIDE SOLID SLEEVE AS NECESSARY.
- CONNECT TO EX. WATER WITH TEE. PROVIDE SOLID SLEEVE AS NECESSARY.
- PROVIDE 100 LF 16" STEEL CASING UNDER SAND HILL ROAD.
- PROVIDE 115 LF 16" STEEL CASING UNDER US 9.
- PROVIDE 95 LF 12" STEEL CASING UNDER US 9.
- INSTALL DOGHOUSE MANHOLE. SEE DETAIL D4-5 ON SHEET DT-03.
- INSTALL ARV. SEE AIR RELEASE VALVE DETAIL ON SHEET DT-04.
- RELOCATE EX. FIRE HYDRANT AND WATER VALVE. SEE DETAIL D2-7 ON SHEET DT-03.

UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-19	TG-W	106+63.52	28.45' LT	47.97'	2.56'	8 1/2" PLASTIC PIPE
TH-20	BV-C	106+60.23	22.35' RT	48.41'	3.80'	(2) 1 1/2" PLASTIC CONDUITS
TH-21	TG-SHC	106+89.36	34.61' RT	47.84'	3.03'	4 1/2" PLASTIC PIPE
TH-22	VER-C	107+03.93	34.14' RT	47.92'	2.15'	3/8" D.B. CABLE
TH-23	TG-W	108+19.83	28.63' LT	48.18'	3.09'	8 1/2" PLASTIC PIPE
TH-24	VER-C	108+24.17	27.26' RT	48.39'	3.65'	(4) 4 1/2" PLASTIC CONDUITS
TH-25	VER-C	108+28.50	31.24' RT	48.59'	3.01'	1 3/8" D.B. CABLE
TH-27	DP-E	108+39.27	43.59' RT	48.83'	1.38'	1 3/4" PLASTIC CONDUIT
TH-28	VER-C	108+62.48	80.73' RT	47.92'	2.19'	1 3/8" D.B. CABLE
TH-29	VER-C	108+65.41	90.23' RT	48.00'	2.04'	(2) 1 1/2" PLASTIC CONDUITS
TH-30	VER-C	108+94.17	81.78' RT	48.18'	3.34'	1" D.B. CABLE
TH-32	TG-W	110+86.39	27.82' LT	47.75'	3.27'	10 1/2" PLASTIC PIPE
TH-33	TG-W	111+30.70	38.09' RT	47.09'	3.50'	10 1/2" PLASTIC PIPE
TH-34	VER-C	111+65.43	15.46' RT	48.23'	3.67'	1 3/4" D.B. CABLE
TH-35	VER-C	112+47.56	16.34' RT	48.01'	3.50'	1 3/4" D.B. CABLE
TH-42	VER-C	110+32.31	68.39' LT	47.45'	1.82'	1 3/4" D.B. CABLE



*WATER SERVICES, METERS, AND SEWER LATERALS SHOWN ARE APPROXIMATE AND HAVE NOT BEEN FIELD SURVEYED. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.

ADDENDA / REVISIONS	
1	ADDED FIRE HYDRANT AND WATER VALVE. ADDED NOTE 8. R. WILLS - 5/1/20



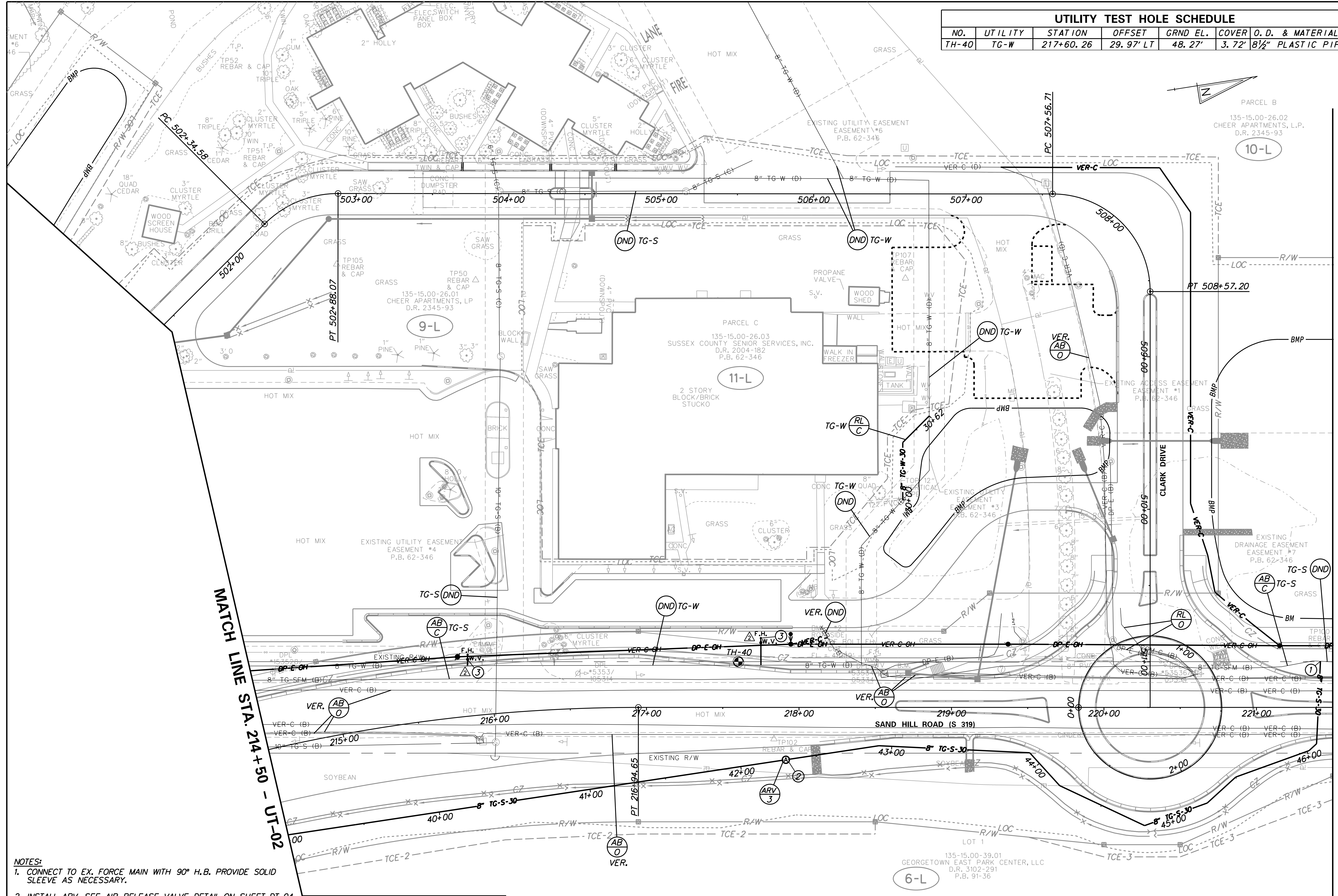
GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	T201804301
COUNTY	SUSSEX
BRIDGE NO.	
DESIGNED BY:	FJB
CHECKED BY:	RRW

UTILITY RELOCATION PLAN	
SECTION	UT-02
WRA	
SHEET NO.	139

M:\2018\04\301\CAD\UT02.dgn
 5/1/2020 9:57:24 AM

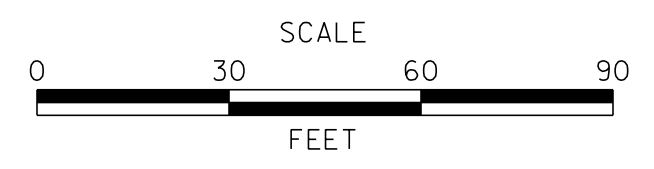
UTILITY TEST HOLE SCHEDULE						
NO.	UTILITY	STATION	OFFSET	GRND EL.	COVER	O. D. & MATERIAL
TH-40	TG-W	217+60.26	29.97' LT	48.27'	3.72'	8 1/2" PLASTIC PIPE



- NOTES:**
- CONNECT TO EX. FORCE MAIN WITH 90° H.B. PROVIDE SOLID SLEEVE AS NECESSARY.
 - INSTALL ARV. SEE AIR RELEASE VALVE DETAIL ON SHEET DT-04.
 - RELOCATE EX. FIRE HYDRANT AND WATER VALVE. SEE DETAIL D2-7 ON SHEET DT-03.

ADDENDA / REVISIONS

1	ADDED FIRE HYDRANT AND WATER VALVE. ADDED NOTE 3. R. WILLS - 5/1/20
---	---



GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	T201804301
COUNTY	SUSSEX
BRIDGE NO.	
DESIGNED BY:	FJB
CHECKED BY:	RRW

UTILITY RELOCATION PLAN

SECTION	UT-06
WRA	
SHEET NO.	143

*WATER SERVICES, METERS, AND SEWER LATERALS SHOWN ARE APPROXIMATE AND HAVE NOT BEEN FIELD SURVEYED. THE CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.

15:06:55:015:CAD:UT06.dgn
 5/1/2020 9:45:33 AM

PAVEMENT MARKINGS LEGEND

SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	3625 LF
(B)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	790 LF
(C)	5" DOTTED WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)(2' LINE, 6' GAP, 2' LINE)	200 LF
(D)	5" BROKEN WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)(10' LINE, 30' GAP, 10' LINE)	70 LF
(E)	WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND (ITEM 817002)	300 SF
(F)	5" SOLID YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	1410 LF
(G)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 817015)	10 EA
(H)	5" DOTTED WHITE ALKYD-THERMOPLASTIC PERMANENT PAVEMENT STRIPING (ITEM 817005)(2' LINE, 6' GAP, 2' LINE)	40 LF
(I)	WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING, 10' x 2" (ITEM 817002)	1480 SF
(J)	16" SOLID WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, (ITEM 817002)	160 SF
(L)	5" SOLID WHITE ALKYD-THERMOPLASTIC PERMANENT PAVEMENT STRIPING (ITEM 817002)	1300 LF

NOTES:

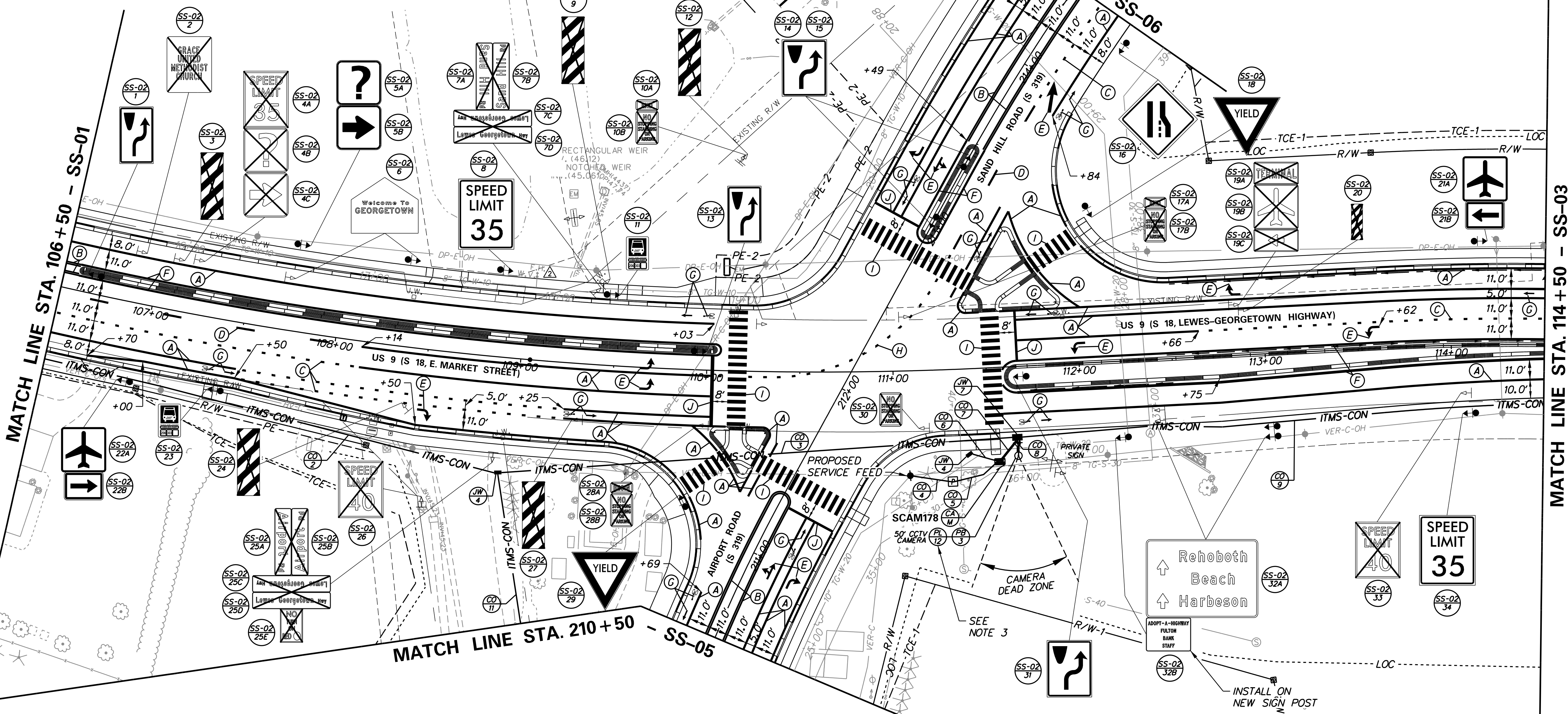
- ALL CONDUITS SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING OR OPEN CUT AND HDPE SDR-13.5 WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL CONTACT DENISE KSIAZEK (DELDOT) AT 302-981-6464 ONCE ALL ITMS CONDUIT IS IN PLACE.
- DELDOT'S TRAFFIC CONTRACTOR SHALL FILL OUT FAA FORM 7460-2 (NOTICE OF ACTUAL CONSTRUCTION) WITHIN 5 DAYS OF THE INSTALLATION OF THE 50' CCTV POLE. REFERENCE AERONAUTICAL STUDY NUMBER 2019-AEA-12437-0E.

ITMS CONDUIT RUN SCHEDULE

CO#	OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/WIRE
2	1	4.0 IN	351 FT**	T	EMPTY
3	1	4.0 IN	275 FT	B	EMPTY
4*	1	2.0 IN	23 FT	T	(1) 2/*8 U.F. W/ GROUND - LINE SIDE
5*	1	2.0 IN	28 FT	T	(1) 2/*8 U.F. W/ GROUND - LOAD SIDE
6	1	4.0 IN	14 FT	T	EMPTY
7	2	4.0 IN	14 FT	T	CCTV CAMERA CABLES
8	1	3.0 IN	8 FT	T	CCTV CAMERA CABLES
9	1	4.0 IN	454 FT**	T	EMPTY
11	1	4.0 IN	205 FT**	T	EMPTY

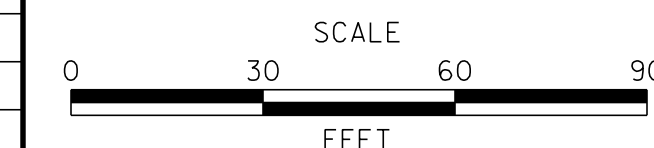
ALL CABLES ARE NEW
 * PROPOSED RIGID GALVANIZED STEEL
 ** QUANTITY CONTINUES ON ADJACENT SHEET

B = BORE, T = TRENCH, O = OPEN CUT



ADDED FIRE HYDRANT AND WATER VALVE, R. WILLS - 5/1/20

ADDENDA / REVISIONS



GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT	T201804301	BRIDGE NO.	
COUNTY	SUSSEX	DESIGNED BY:	AFD
		CHECKED BY:	MJB

SIGNING, STRIPING, AND CONDUIT PLAN

SS-02
SECTION
WRA
SHEET NO.
149

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	1265 LF
(B)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	2000 LF
(C)	5" DOTTED WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013) (2' LINE, 6' GAP, 2' LINE)	140 LF
(E)	WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND (ITEM 817002)	60 SF
(G)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 817015)	5 EA
(J)	16" SOLID WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND, (ITEM 817002)	20 SF

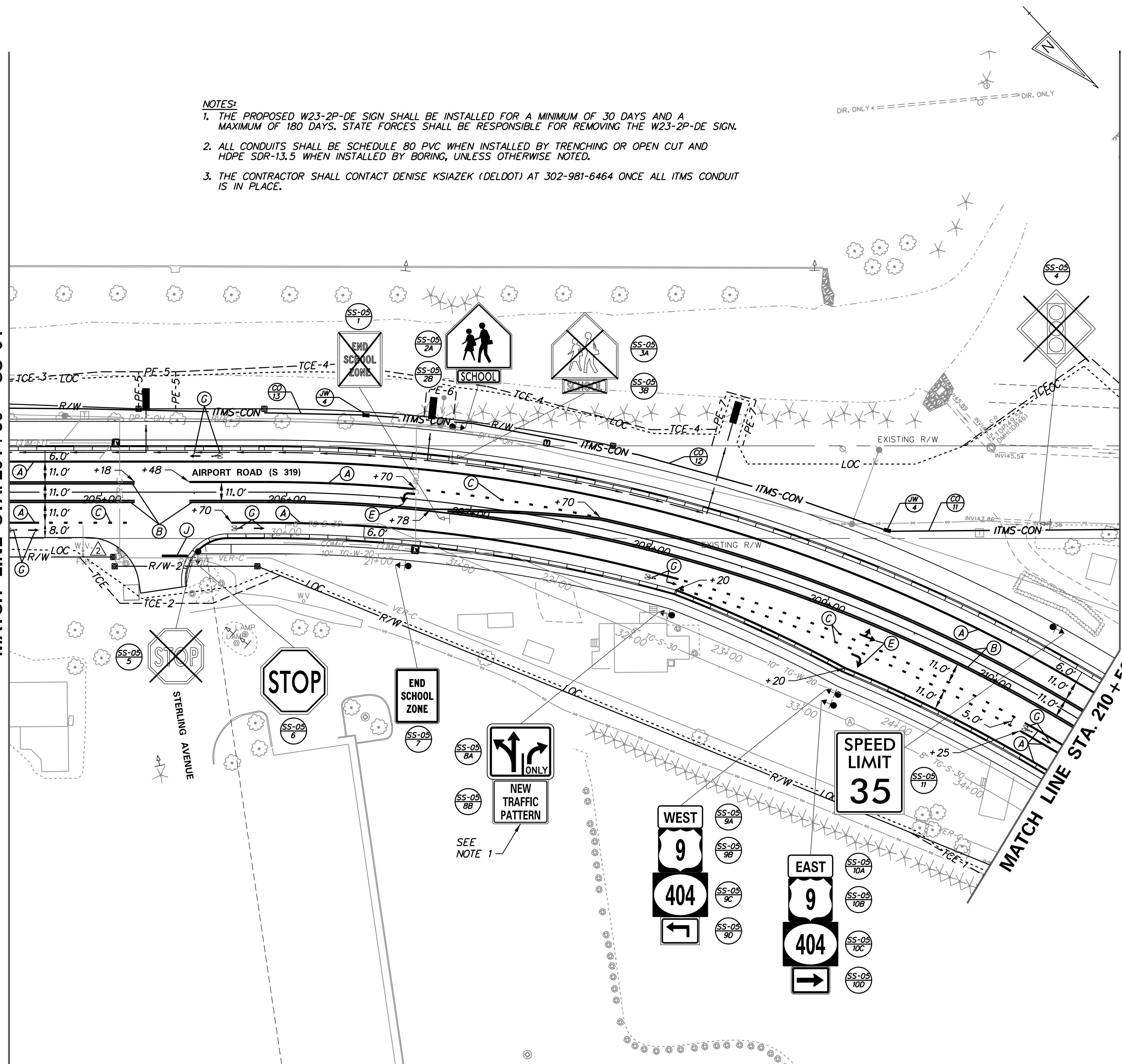
ITMS CONDUIT RUN SCHEDULE					
CO#	# OF CONDUITS	SIZE	LENGTH	B/T/O	AMOUNT AND TYPE OF CABLE/ WIRE
11	1	4.0 IN	205 FT**	T	EMPTY
12	1	4.0 IN	286 FT	T	EMPTY
13	1	4.0 IN	258 FT**	T	EMPTY

** QUANTITY CONTINUES ON ADJACENT SHEET B = BORE, T = TRENCH, O = OPEN CUT

NOTES:

1. THE PROPOSED W23-2P-DE SIGN SHALL BE INSTALLED FOR A MINIMUM OF 30 DAYS AND A MAXIMUM OF 180 DAYS. STATE FORCES SHALL BE RESPONSIBLE FOR REMOVING THE W23-2P-DE SIGN.
2. ALL CONDUITS SHALL BE SCHEDULE 80 PVC WHEN INSTALLED BY TRENCHING OR OPEN CUT AND HDPE SDR-13.5 WHEN INSTALLED BY BORING, UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL CONTACT DENISE KSIAZEK (DELDOT) AT 302-981-6464 ONCE ALL ITMS CONDUIT IS IN PLACE.

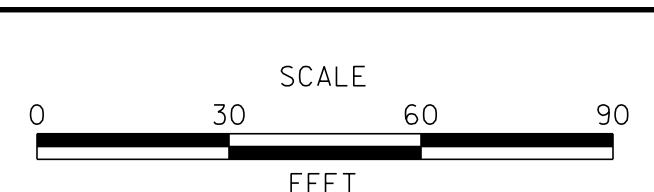
MATCH LINE STA. 204+50 - SS-04



MATCH LINE STA. 210+50 - SS-02

11/17/2020 11:51:17 AM SS05.dgn

ADDENDA / REVISIONS	
1	ADDED FIRE HYDRANT AND WATER VALVE. R. WILLS - 5/1/20



GEORGETOWN EAST GATEWAY IMPROVEMENTS

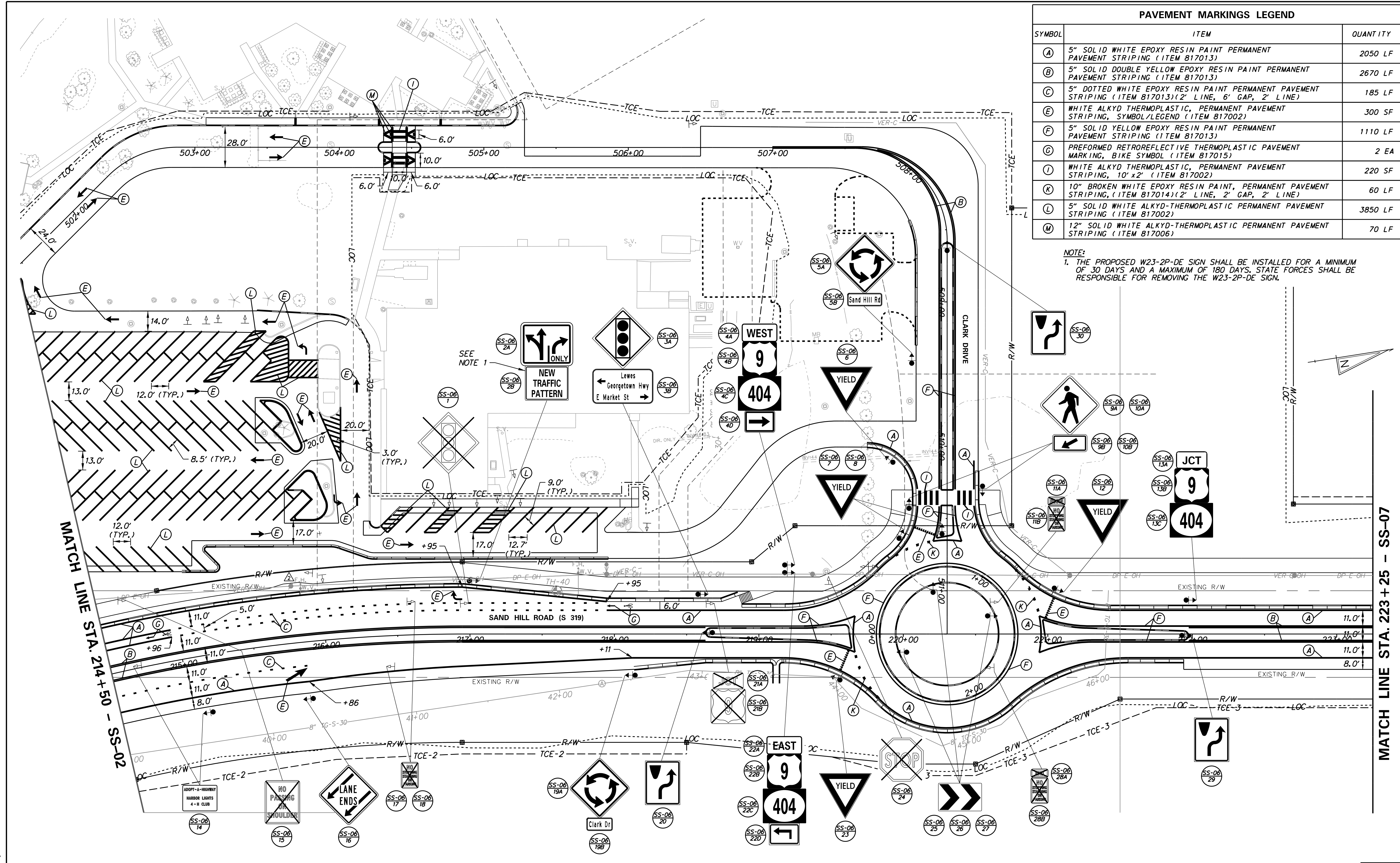
CONTRACT	T201804301	BRIDGE NO.	
COUNTY	SUSSEX	DESIGNED BY:	AFD
		CHECKED BY:	MJB

SIGNING, STRIPING, AND CONDUIT PLAN	
SECTION	WRA
SHEET NO.	152

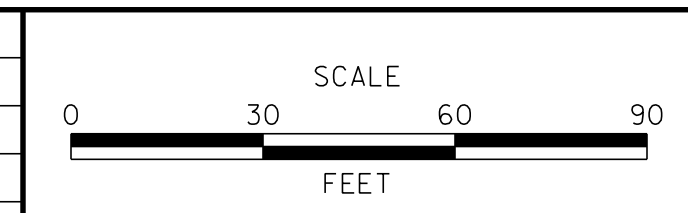
SS-05

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	5" SOLID WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	2050 LF
(B)	5" SOLID DOUBLE YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	2670 LF
(C)	5" DOTTED WHITE EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)(2' LINE, 6' GAP, 2' LINE)	185 LF
(E)	WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING, SYMBOL/LEGEND (ITEM 817002)	300 SF
(F)	5" SOLID YELLOW EPOXY RESIN PAINT PERMANENT PAVEMENT STRIPING (ITEM 817013)	1110 LF
(G)	PREFORMED RETROREFLECTIVE THERMOPLASTIC PAVEMENT MARKING, BIKE SYMBOL (ITEM 817015)	2 EA
(I)	WHITE ALKYD THERMOPLASTIC, PERMANENT PAVEMENT STRIPING, 10' x 2' (ITEM 817002)	220 SF
(K)	10" BROKEN WHITE EPOXY RESIN PAINT, PERMANENT PAVEMENT STRIPING (ITEM 817014)(2' LINE, 2' GAP, 2' LINE)	60 LF
(L)	5" SOLID WHITE ALKYD-THERMOPLASTIC PERMANENT PAVEMENT STRIPING (ITEM 817002)	3850 LF
(M)	12" SOLID WHITE ALKYD-THERMOPLASTIC PERMANENT PAVEMENT STRIPING (ITEM 817006)	70 LF

NOTE:
1. THE PROPOSED W23-2P-DE SIGN SHALL BE INSTALLED FOR A MINIMUM OF 30 DAYS AND A MAXIMUM OF 180 DAYS. STATE FORCES SHALL BE RESPONSIBLE FOR REMOVING THE W23-2P-DE SIGN.



ADDENDA / REVISIONS
ADDED FIRE HYDRANT AND WATER VALVE, R. WILLS - 5/1/20



GEORGETOWN EAST GATEWAY IMPROVEMENTS

CONTRACT T201804301	BRIDGE NO.	SIGNING, STRIPING, AND CONDUIT PLAN	SS-06
COUNTY SUSSEX	DESIGNED BY: AFD		SECTION WRA
	CHECKED BY: MJB		SHEET NO. 153