

STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION



Unofficial

Website

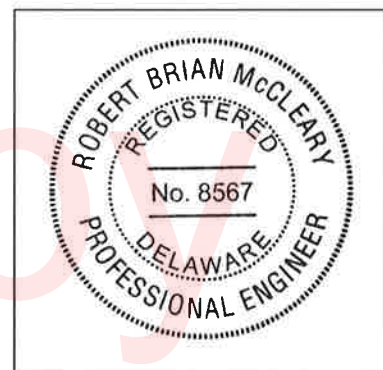
PLANS AND SPECIFICATIONS FOR
CONTRACT NUMBER: T201600901
FEDERAL AID PROJECT NUMBER: ESTP-2015(31)
OPEN-END CONSTRUCTION SERVICES, SUSSEX COUNTY



RECOMMENDED:

Michael H. Simmons 9/9/15

Assistant Director
Project Development South



APPROVED:

Robert Brian McCleary

Chief Engineer
Transportation Solutions

CONTRACT DESCRIPTION

The purpose of this contract is to construct road projects in accordance with applicable standards. The location of work is limited to sites within Sussex County. Individual locations will vary in their context from within existing roadway and on virgin ground.

The work activities include, but are not limited to, the following:

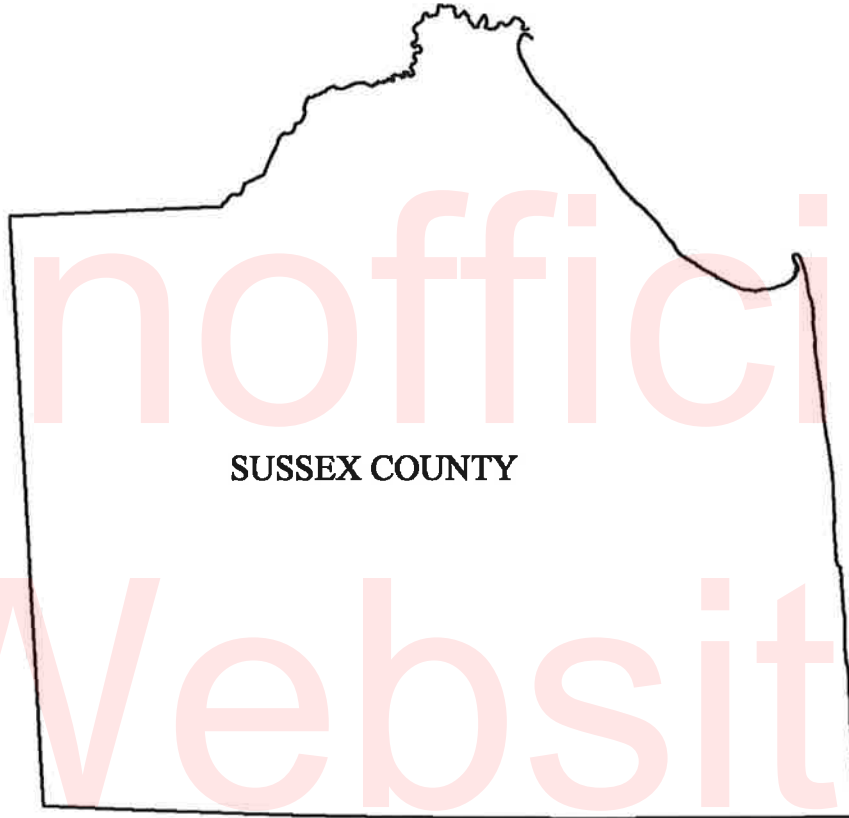
- Clearing and grubbing
- Excavation
- Grading
- Placing all materials for curbing, sidewalk and roadway construction
- Construction of both open and closed drainage systems
- Placement of erosion and sediment controls
- Maintenance of traffic
- Signing and striping
- Signal system, lighting work, ITMS
- Guardrail placement/replacement
- Site amenities
- Modular block wall and/or retaining wall

Several work sites for this contract have been identified and are listed below. The state reserves the right to add additional Tasks to this contract as additional locations become available. Note that sites are not limited to and not guaranteed for this contract.

- Task 1 – HEP SC, US 113 at Ennis Road/North Street
- Task 2 – HRRRP SC, US 13 at SR 30/Dorothy Road/Whitesville Road
- Task 3 – HEP SC, US 113 at Millsboro Towne Square/1st Street

LOCATION MAP

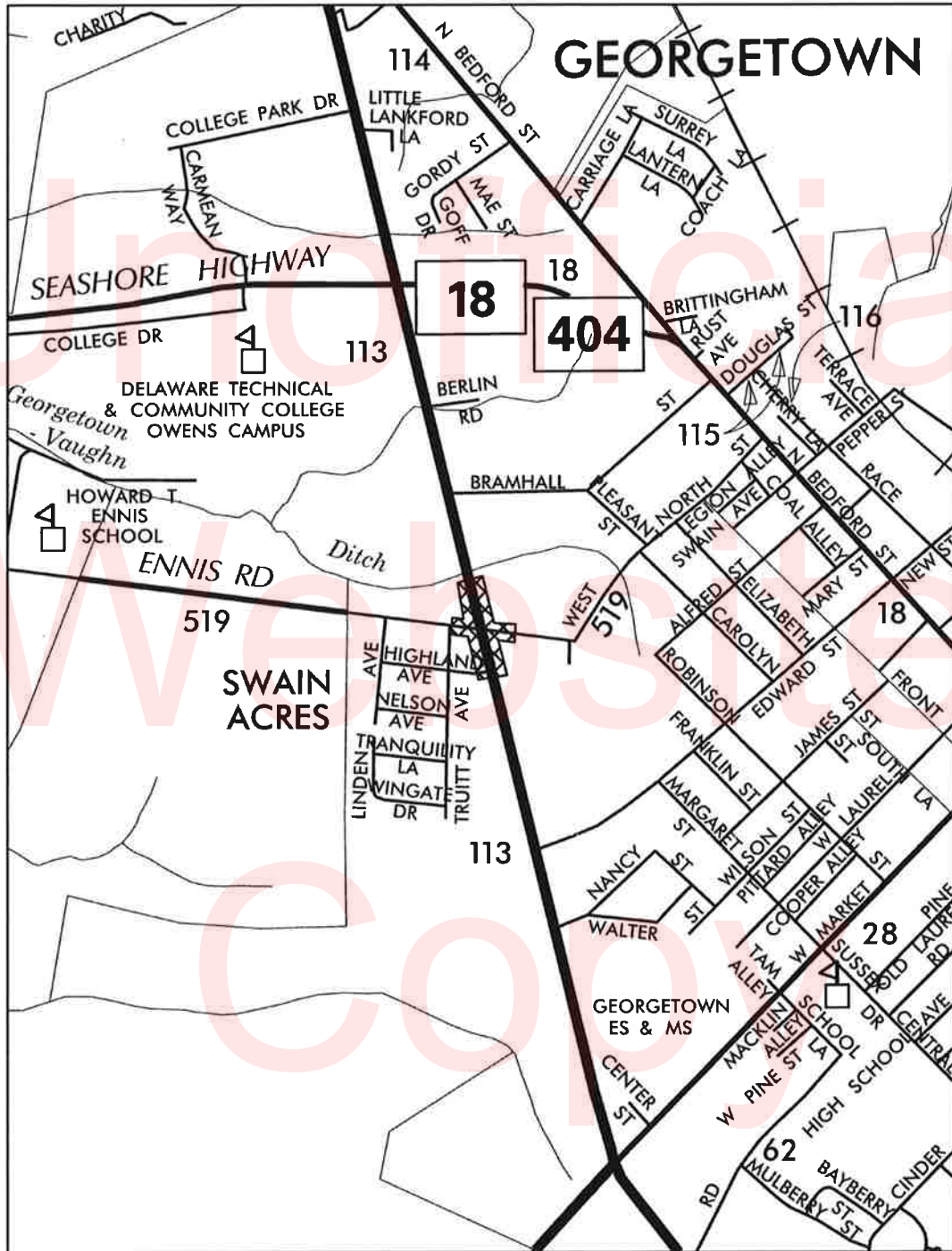
LOCATION 1- Open End Location - Actual Locations to be determined



SUSSEX COUNTY

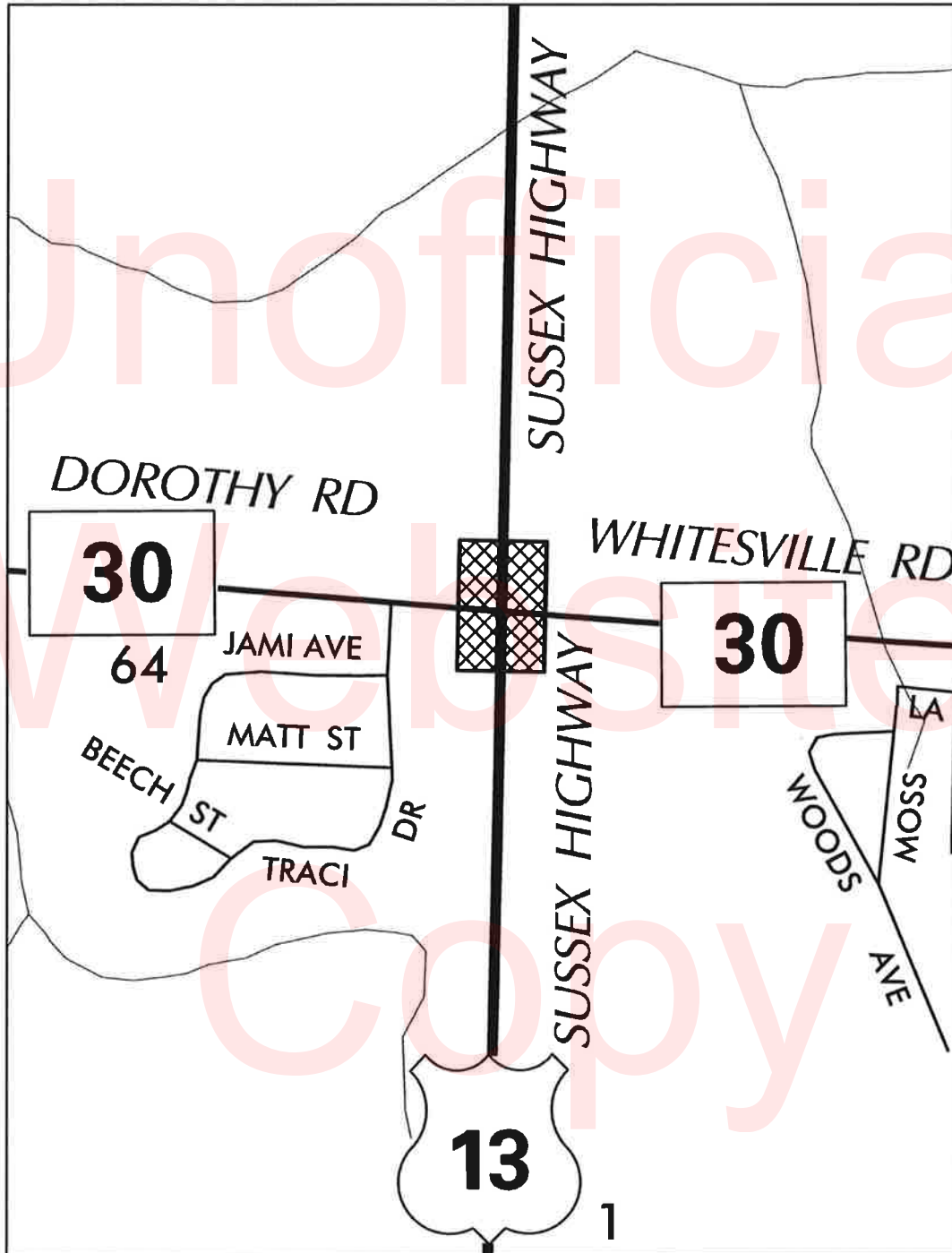
LOCATION MAP

TASK 1- US 113 AT ENNIS ROAD/NORTH STREET



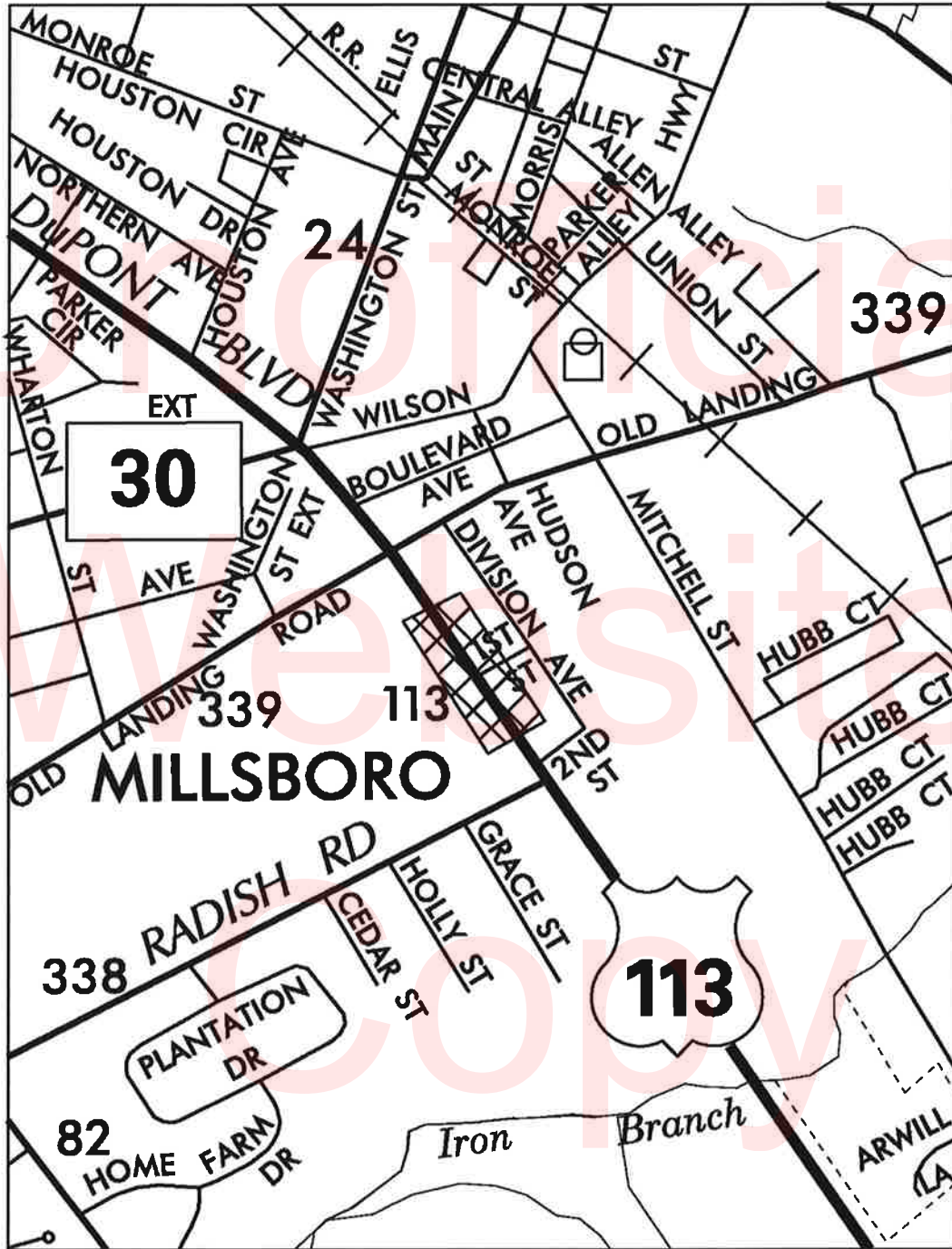
LOCATION MAP

TASK 2- US 13 AT SR 30/DOROTHY ROAD/WHITESVILLE ROAD



LOCATION MAP

TASK 3 - US 113 AT MILLSBORO TOWNE SQUARE/1ST STREET



PROJECT NOTES

1. Construction of this contract shall be performed in accordance with the Delaware Department of Transportation Standard Specifications dated August 2001 (as amended by the Supplemental Specifications) and DelDOT Standard Construction Details, including all revisions up to the date of advertisement.
2. This is an open-end Task driven contract, with some known and other not yet determined locations, to make general improvements to roads, trails, or pedestrian/bicycle facilities located within the boundaries of Sussex County. The work shall be issued as the Engineer provides individual Tasks. The Delaware Department of Transportation (hereinafter referred to as the Department) reserves the right to prioritize, substitute, add, or delete locations at anytime during the contract term.
3. Contract Term: this contract shall be for a period of three (3) years from the date of initial "Notice to Proceed."
4. The location listing indicates estimated quantities for the original specified Tasks as well as probable items and quantities to be used on future Tasks. During the bidding period, any questions pertaining to locations shall be directed to Contract Administration. After the award, such questions shall be referred to Construction Group 3.
5. Depending on fund availability, the Department reserves the right to increase or decrease the quantities of the items specified in this contract. Such additions or deletions shall not be cause for an increase or decrease in any contract unit bid prices.
6. The work will be scheduled by issuance of Tasks to the Contractor from the Department. Each Task will represent an independent construction location. Tasks will be issued upon design completion and receipt of necessary statements & permits for the individual sites. It is anticipated that each individual Task will obtain the necessary plan approvals prior to issuance. Field personnel representing the Department are not authorized to revoke, alter, or waive any requirements of the plans or specifications.
7. The scope of each Task will be defined by a fully engineered set of construction drawings. In addition to the drawings and notes the estimated quantities, property owner notification requirements, allowable time to perform the work and any additional specifications and construction guidance needed for the specific Task will also be provided.
8. Payment will be monthly for the completed pay estimates as outlined in Section 109.07.
9. Prosecution and progress of work:

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- a. The Contractor shall commence work indicated on the Task no later than thirty (30) days after issuance of Notice to Proceed for each Task unless the required materials are not available. Non-availability of materials shall be verified by at least three (3) independent sources, with the verification formally presented in writing by the Contractor to the Department within four (4) working days of being issued a new Task.
 - b. Issuance of each Task does not constitute authorization to begin the work described on the Task. The Contractor shall not commence any work on a Task until a Notice to Proceed for the Task has been issued by the Department.
 - c. If work does not commence, or non-availability of materials is not presented in the allotted time, default or termination of the Contract may occur as provided in the Standard Specifications. If there is a verified non-availability of materials, time charges shall commence on the first (1st) calendar day following the delivery date of said materials.
 - d. Failure to complete the Task in the specified time shall subject the Contractor to liquidated damages as outlined in Subsection 108.08 of the Standard Specifications. Each Task is to be completed within the specified time as specified in the Notice to Proceed for Each location. Additional contract time may be added to any Task as needed at the discretion of the Engineer, provided an extension of time is submitted per Subsection 108.07 of the Standard Specifications. If the work on a specific Task is not completed within the assigned time, liquidated damages will be assessed in accordance with Subsection 108.09 of the Standard Specifications based on the total value of that particular Task.
 - e. The Contractor **may** have up to three (3) active Tasks at a time until all assigned work has been substantially completed. The Contractor is required to have enough resources to work on all Tasks issued. Each Task start date shall be determined by the Engineer.
10. A semi-final inspection will be performed on each Task after the Department determines that substantial completion has been achieved. All work must meet the Department's specifications and the requirements as outlined in these notes. The Contractor must complete all punchlist work within thirty (30) calendar days of the issuance of the semi-final inspection punch list provided, unless the Engineer approves otherwise.
- All work is subject to a final inspection upon each Task completion of the semi-final punch list. The Contractor will have forty-five (45) days to complete all punch list work from the final inspection letter date, unless the Engineer approves otherwise.
11. All additional work shall be performed by contract unit prices. In the case where contract prices are not available, prices are to be negotiated or performed by force account procedures as outlined in the Standard Specifications.
12. Proper disposal of construction related wastes shall be the sole responsibility of the Contractor, and

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shall be performed in accordance with all applicable state regulations.

13. Trash, rubbish, debris or brush that hampers repair / maintenance work in this contract (as determined by the Engineer) shall be removed within the project limits, and shall be incidental to Pay Item 763000 (Initial Expense).
14. Clearing and grubbing of trees and shrubs less than six (6) inches in diameter shall be incidental to the Item 202000 – Excavation and Embankment. Grubbing activities performed in wetland areas require environmental permit approvals. Other clearing and grubbing will be negotiated or performed by Force Account procedures.
15. Grass and soil areas that have been damaged by the Contractor's equipment during this contract shall be restored with topsoil, seed and mulch at the Contractor's expense, and in accordance with the requirements of Section 908 – Soil Stabilization Practices.
16. The Contractor shall not trespass on private property unless the Department has acquired a “Temporary Trespass Agreement” from the property owner. If the work is within an easement, permanent or temporary, the work shall not begin until the adjacent property owners (if affected) have been notified. Prior to starting work on temporary or permanent easements, the Contractor shall notify affected property owners of the proposed work dates. The Contractor shall provide all residents who live adjacent to the work zone with a minimum seven (7) days prior written notice for the start of construction work unless directed otherwise in the site specific documentation. This notification shall include the scope of work, working hours, anticipated start and completion dates, Contractor name and address, and DelDOT contact name and numbers. Failure to give proper notice will result in a suspension of work requiring notice, until proper notice is provided.
17. No environmental permits are required for this work provided no jurisdictional wetlands or waters are impacted. If there is any question as to whether or not a water or wetland is jurisdictional or if permits are required, contact South Construction who will coordinate with the DelDOT Environmental Section at 302-760-2264.
18. A Notice to Proceed for a specific task will not be issued until the administration section receives any required clearance or permits from the **DelDOT Environmental Studies Office**. Any special conditions may be part of an assigned Task, such as environmental clearance for stockpile area.
19. Underground utilities may be present at all locations. Therefore, all standard practices and procedures regarding utilities shall be followed, see Subsection 105.09 of the Standard Specifications. The Contractor shall contact Miss Utility of Delaware prior to starting each task. The Contractor is responsible for the support and protection of all utilities when excavating. The Contractor is responsible for ensuring proper clearances, including safety clearances, from overhead utilities for construction equipment. The Contractor is advised to check the site for access purposes for his equipment.

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20. Any known utility relocations will be identified in the plans. Should any unidentified conflicts be encountered during construction requiring adjustment and/or relocation of the agencies' existing facilities, the necessary relocation work shall be accomplished by the respective agencies' forces, as directed by the District Engineer. Any adjustments and/or relocations of municipally owned facilities shall be done by the State's contractor in accordance with the respective agencies' standard specifications as directed by the District Engineer.
21. All work shall be performed within the existing state Right-Of-Way or easement areas unless otherwise noted on the Task. Right-of-way information shall be available upon request from the DelDOT Engineer. Should the need occur to trespass onto private property; it will be the responsibility of the project manager to secure such trespass needs. Should the need occur to trespass onto railroad property, including the highway-rail crossing; it will be the responsibility of the Project Manager to contact the railroad chief engineer and obtain written authorization before entering.
22. Seasonal restrictions may exist at select locations to be performed under this Contract. The Department will notify the Contractor upon issuance of a new Task of any restrictions.
23. At the end of each work day, the Contractor shall correct all pavement edge drop offs in accordance with the current Delaware Manual on Uniform Traffic Control Devices. Any corrective measures taken by the contractor shall be incidental to the MOT items.
24. All Portland Cement Concrete must be received from an approved production plant unless otherwise approved by the Engineer. Only calibrated volumetric concrete trucks will be permitted to provide on-site mixtures. This pertains to both work occurring during normal working hours and nighttime restricted work.
25. The Construction Project Manager shall be responsible for coordinating with the Traffic Section relating to any impacts to Traffic Section facilities (including but not limited to traffic loops, junction wells etc.) at least 4 weeks in advance of the start of the activity. Prior to initiating any work on this contract (or sites), the Project Manager shall be responsible for preparing and submitting for approval of the Safety Section, a Maintenance of Traffic Plan. Sufficient time shall be provided for the review and approval of the plan. The Maintenance of Traffic Plan shall include proposed time restrictions on the closure of travel lanes subject to the approval of the Safety Section.
26. The Project Manager is responsible for ensuring any required documents and analysis as part of the adopted Work Zone Safety and Mobility Procedures and Guidelines has been completed prior to any work starting on this contract.

MAINTENANCE OF TRAFFIC
PROJECT NOTES

1. The Contractor and all others shall perform all work in a manner that shall ensure the least practical obstruction to all road users, including vehicular, pedestrian, and bicycle traffic, and shall be consistent with safety standards, and shall comply with the requirements specified in the latest version of the "Delaware Manual On Uniform Traffic Control Devices" (MUTCD) Part 6, herein referred to as the "Traffic Control Manual" (including revisions in effect at the time of advertisement for bids).
2. The Contractor and all others shall review and follow project specific maintenance of traffic (MOT) and detour plans. If there is any conflict between the project specific mot plans and general notes in this section, the project specific mot plans will supersede. If the Contractor should wish to deviate from the proposed mot and detour plans then he shall seek approval from the engineer. No MOT or detour changes will be allowed without written approval from the Engineer prior starting any task.
3. No lane closures will be permitted on holidays or holiday weekdays, unless approved by the Engineer. This requirement applies to all roads impacted in this contract.
4. No lane closures will be permitted unless applicable work activity is taking place.
5. The Contractor shall prepare and submit a Traffic Control Plan, including the necessary NCHRP 350 certificate for all devices that will be utilized for each location prior to the pre-construction meeting, for approval ten (10) working days prior to the start of assigned tasks, and for each project site. Written approval for the Contractor's Traffic Control Plan and NCHRP 350 submittals must be received from the Department Safety Officer prior to the start of work at each and every location. Costs for preparation of traffic control plans for each site shall be included in the bid price for Pay Item 743000 (Maintenance of Traffic). The Traffic Control Plan must clearly indicate orientation of traffic control devices to be used for each site. The plan must be approved by DelDOT Safety Officer and DelDOT Engineer prior to commencement of work at each site.
6. For locations requiring a flagging operation, the flagger will be paid per Items 743052 & 743064 (Sussex County), respectively.
7. All flaggers utilized by the Contractor for this Contract shall be American Traffic Safety Services Association (ATSSA) certified. All flaggers shall have their certification cards with them while working. Absence of a certification card will be justification for flagger dismissal from the site and corresponding suspension of work. All construction and Contractor vehicles and equipment shall be equipped with an operating roof mounted amber flashing strobe light. All workers shall wear a retro-reflective ANSI Class 2 or equivalent safety vest while they are within the right-of-way or adjacent to it.

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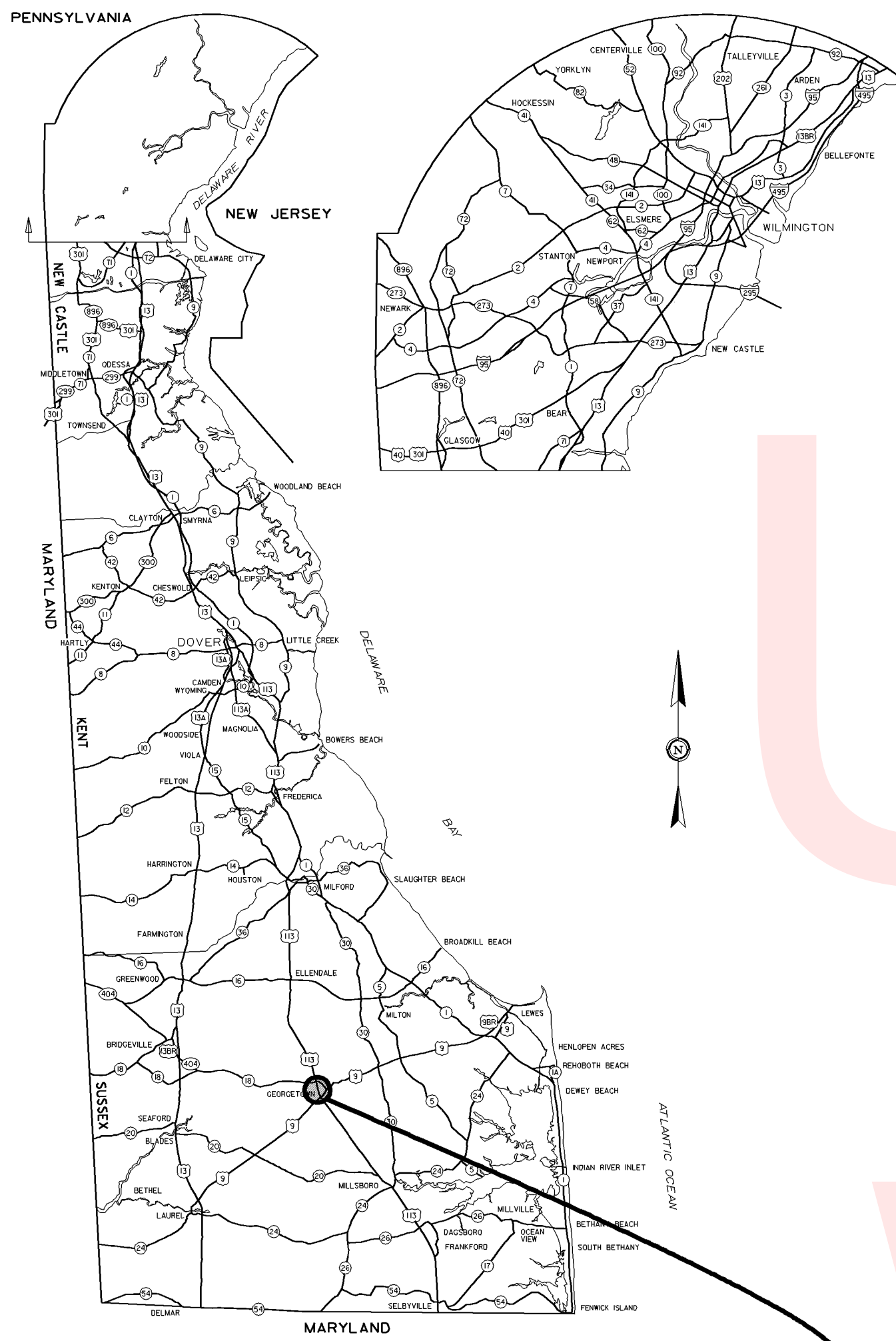
8. The Contractor shall have an ATSSA certified supervisor assigned to this project. The Contractor's general superintendent for this project or another ATSSA certified member of the Contractor's project staff may be the ATSSA supervisor.
9. If required, the DelDOT safety section must be notified a minimum of three (3) weeks in advance of the work in order to determine the type of and prepare a Transportation Management Plan (TMP) for the location. Should a Type "B" TMP be required, all restrictions given in the TMP will be followed.
10. Any deviation from the MOT plans must be approved by the DelDOT Project Manager and Safety Officer. If a Contractor requests a detour, the Contractor shall submit a proposed detour plan to the DelDOT Project Manager and Safety Officer for approval. Payment for detour plan preparation shall be included in the bid price for Item 743000 (Maintenance Of Traffic). The Contractor shall also coordinate the closure with the Department. The Department will coordinate with the safety section and be responsible for the necessary emergency notifications. The detour route requires approval by the Department prior to closure. The Contractor shall be responsible for furnishing and maintaining the maintenance of traffic apparatus at the closure (i.e. Type III Barricade, Road Closed Signs, etc.) and all advance-warning signs. The Contractor shall be responsible for placement of detour trailblazers. Payment for detour trailblazers shall be under Item 743024, Temporary Warning Signs & Plaques.
11. If the construction activity results in a vertical difference or drop-off along, adjacent to or across a travel way, the Contractor shall eliminate or remedy the hazard by the methods detailed in Section (6G.20, table 6G-1) of the Traffic Control Manual as directed by the Engineer. The construction safety fence, tie wire, etc. shall be incidental to the work it protects. At the end of each workday, the Contractor shall correct all pavement edge drop-offs in accordance with the Delaware MUTCD. This corrective work shall be accomplished with Temporary Road Material (TRM) unless otherwise noted in the plans. All ruts and potholes shall be filled with TRM as soon as possible, but no later than by the end of each workday. Placement of TRM shall be completed in accordance with the applicable sections of the Delaware Standard Specifications. If temporary elimination of a drop-off hazard cannot be accomplished, then the area shall be properly marked and protected with additional temporary barriers, barricades, warning signs, etc. as required by the Delaware MUTCD, and as approved by the Engineer. Payment for all work described in this Project Note shall be incidental to applicable maintenance of traffic pay items in the contract. There shall be no additional compensation provided to the Contractor for this work.
12. All traffic control devices shall be provided and placed in accordance with the Delaware MUTCD (Traffic Control Manual).
13. Payment for relocation and re-positioning of traffic control devices shall be incidental to the respective unit price pay items for maintenance of traffic included in this Contract. There shall be no additional compensation for relocation or re-positioning of traffic control devices.

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14. The safety measures outlined within this Contract and the Delaware MUTCD are not necessarily sufficient in every instance to guarantee the protection of the traveling public or persons working on this project. Therefore, the provisions of this Contract do not relieve the Contractor of the sole responsibility for the safety of all persons working within or traveling through the work zone throughout the duration of the project. The Contractor shall implement any additional safety measures that are not expressly required by the Contract and are necessary to ensure the safety of all persons. The Contractor shall submit to the Engineer justification for deviations from the Traffic Control Plan or Transportation Management Plan. Final approval of the deviations or additions shall rest with the Engineer. All costs for this work shall be incidental to the applicable maintenance of traffic pay items as listed in the original Contract.
15. The Department reserves the right to stop the Contractor's operations, if in the opinion of the Engineer the Contractor's operations are not in compliance with the Delaware MUTCD, the specifications, or the plans. The Department also reserves the right to stop the Contractor's operations if the Engineer deems the operation unsafe.
16. The Department will not make payment to the Contractor for any and all temporary traffic control devices where the Contractor sets up temporary traffic control to perform work, but fails to perform any work.
17. If the Contractor does not complete the Contract work within the contract completion time as listed on the Task (including approved time extensions), the Contractor shall be responsible for providing the necessary temporary traffic control devices that are required to complete any remaining work. The cost of such temporary traffic control shall be borne by the Contractor. No additional payment will be made to the Contractor to maintain traffic in accordance with the Delaware MUTCD, specification, or these project notes. Temporary traffic control items shall include, but not be limited to, warning signs, barricades, plastic drums, P.C.C. safety barrier, flaggers, traffic officers, arrow panels, message boards, portable light assemblies, and portable impact attenuators.
18. All equipment shall be removed from the job sites on a daily basis, except when allowed by the DelDOT approved Traffic Safety Plan, or as approved by the Engineer.
19. All required maintenance of traffic warning signs will be paid under Item 743024, Temporary Warning Signs & Plaques, as determined by the duration of construction. All temporary traffic control devices used on all highways open to the public in this state shall be in new or refurbished condition and shall be crashworthy in accordance with the National Cooperative Highway Research Program (NCHRP) Report 350 and the memorandum issued August 28, 1998 by the USDOT Federal Highway Administration Information: Crash Tested Work Zone Traffic Control Devices. It is the requirement of the Department that such certification be submitted for traffic control devices used on all projects, not just those involving the National Highway System.
20. No separate payment shall be made for the use of traffic cones. Traffic cones and/or work associated with their use, such as set up, removal, cleaning, etc., shall be incidental to the work for which they protect. Cones shall not be used for traffic control during any night time operations.

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21. A truck mounted attenuator; Type I (Item 743009) and or Type II (Item 743010) shall be required on roads for shoulder work, travel lane work and for other operations as outlined in the DelDOT Traffic Control Manual, or as directed by the Engineer.
22. Any erroneous pavement markings will not be paid for and shall be corrected immediately at the Contractor's expense. Erroneous markings or shadows that exceed one (1) inch in width shall be removed by either sand or water blasting. No other removal methods will be allowed. A flat black paint or driveway sealer shall be applied in the area of the removed marking to mask the repair. Any damage to the pavement caused by removal of erroneous markings shall be repaired / replaced to the satisfaction of the Engineer at the Contractor's expense.
23. At the end of each day's operation and before traffic is returned to unrestricted roadway use, temporary striping shall be utilized at locations that require permanent striping per the latest version of the permanent marking section of the Traffic Control Manual. Temporary pavement markings shall be paid at the applicable contract unit price.
24. Pedestrian Maintenance of Traffic: this work shall consist of providing and maintaining an accessible pedestrian route throughout the project's limits in accordance with the Americans With Disabilities Act Of 1990 (ADA) Title II, Paragraph 35.130. The Contractor shall be required to review each curb ramp location and submit the appropriate maintenance of traffic detail and devices to the Engineer for each location at least two (2) weeks before construction for review, comment, and approval. The following considerations shall be taken into account when addressing accessible pedestrian maintenance of traffic:
 - a. All pedestrians, including persons with disabilities, shall be provided with a reasonably safe, convenient and accessible path that replicates, as much as practicable, the existing pedestrian facilities.
 - b. Maintain access to all businesses and residences at all times.
 - c. Provide pedestrian access through or around the work zone. If a detour is chosen the Contractor must submit the detour route to the Engineer for review and approval. The detour route must meet or exceed the current conditions.
 - d. Work should be phased so that all areas of an intersection/sidewalk path are not under construction at the same time unless a clear pedestrian path is provided and identified.
 - e. Traffic control devices and other construction materials and features shall not intrude into the usable width of the sidewalk, temporary pathway or other pedestrian facility.
 - f. Signs and other devices mounted lower than 7 feet above the temporary pedestrian pathway shall not project more than 4 inches into accessible pedestrian route.
 - g. A smooth, continuous hard surface shall be provided throughout the entire length and width of the pedestrian route throughout construction. There shall be no curbs or vertical elevation changes greater than ¼ inch in grade or terrain that could cause tripping or be a barrier to wheelchair use.



GENERAL LOCATION OF TASK

THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY
UNITS
FINAL PLANS

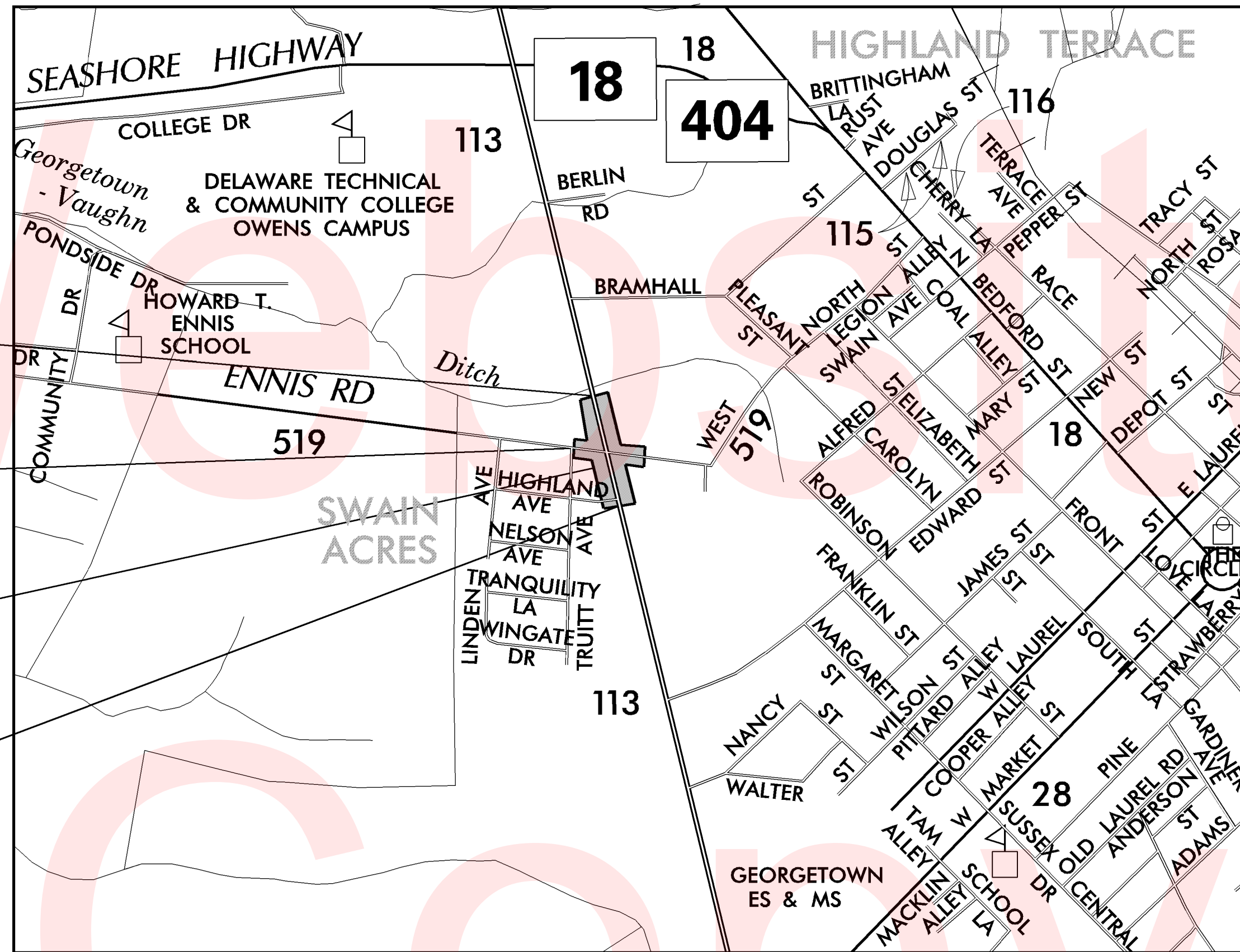


CONSTRUCTION PLANS FOR:

OPEN-END CONSTRUCTION SERVICES, SUSSEX COUNTY TASK 1 - HEP SC, US 113 AT ENNIS ROAD/NORTH STREET

CONTRACT NUMBER: **T201600901**
FEDERAL AID PROJECT NUMBER: **ESTP-2015(31)**

COUNTY: **SUSSEX** M.R. #: **113, 519**



DESIGN DESIGNATION			
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL	D.H.V. PROJECTED: 1920	YEAR: 2040	
TYPE OF CONSTRUCTION: MEDIAN IMPROVEMENT	DESIGN SPEED: 55 M.P.H.		
A.A.D.T. CURRENT: 23945	YEAR: 2012	TRUCKS: 8 %	
A.A.D.T. PROJECTED: 32000	YEAR: 2040	DIRECTION OF DISTRIBUTION: 60 %	
FUNCTIONAL CLASS: LOCAL	D.H.V. PROJECTED: 115	YEAR: 2040	
TYPE OF CONSTRUCTION: MEDIAN IMPROVEMENT	DESIGN SPEED: 30 M.P.H.		
A.A.D.T. CURRENT: 1325	YEAR: 2012	TRUCKS: 6 %	
A.A.D.T. PROJECTED: 1800	YEAR: 2040	DIRECTION OF DISTRIBUTION: 58 %	

INDEX OF SHEETS	
SHEET NO	TABLE OF CONTENTS
1	TITLE
2	LEGEND
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6	GRADES AND GEOMETRICS
7	CONSTRUCTION DETAILS
8-10	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLANS
11-12	SIGNING, STRIPING, AND CONDUIT PLANS

TOTAL SHEETS: 12

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
65-07-012	U.S. ROUTE 113 (ROAD 432 TO GEORGETOWN)
90-063-04	U.S. 113 GEORGETOWN S. 321 TO S.R. 404

PREPARED BY
THE CONSULTING FIRM OF

RECOMMENDED _____ DATE _____

SEAL

END TASK STATION 110+00

LIMIT OF TASK STATION 303+36

LIMIT OF TASK STATION 501+79

BEGIN TASK STATION 100+50

RECOMMENDED

Sarah E. Crivell 07/15/2015
SQUAD MANAGER, CONSTRUCTION DATE

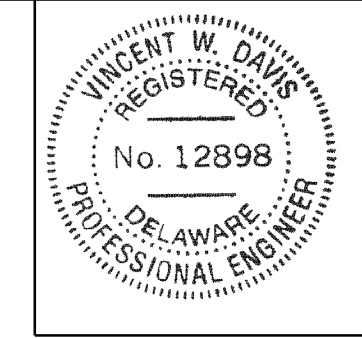
Bradford L. Schmitz 07/20/2015
GROUP ENGINEER, CONSTRUCTION DATE

Jim A. Fazio 07/20/2015
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) DATE

RECOMMENDED

Vincent W. Davis
STORMWATER ENGINEER

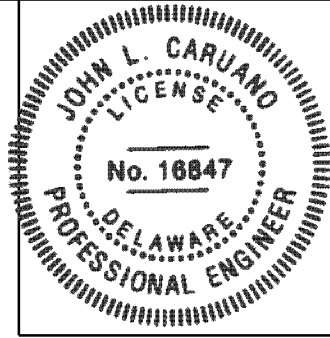
DATE 07/15/2015



RECOMMENDED

John L. Casano
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)

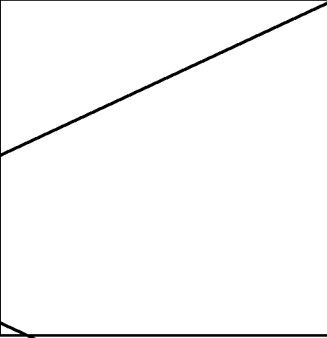
DATE 07/14/2015



RECOMMENDED

BRIDGE DESIGN ENGINEER

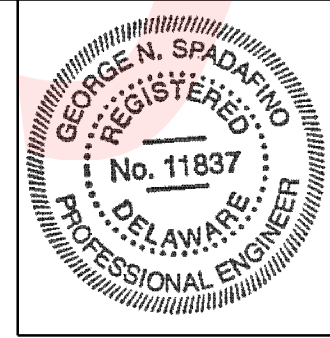
DATE _____



RECOMMENDED

Gregory J. ...
GROUP ENGINEER, PROJECT DEVELOPMENT

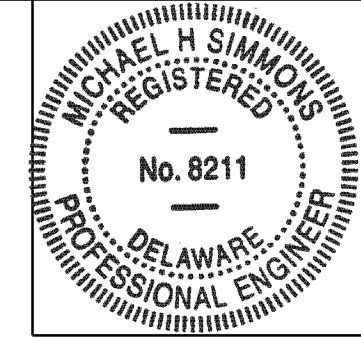
DATE 07/20/2015



RECOMMENDED

Michael H. Simons
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS

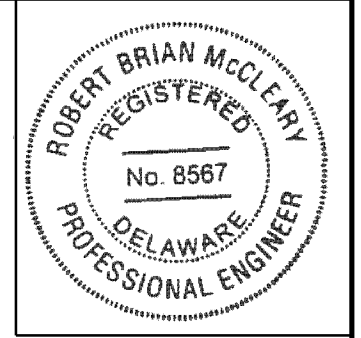
DATE 07/20/2015



APPROVED

Robert Brian McCleary
CHIEF ENGINEER

DATE 07/21/2015



LAST REVISED: 03/03/2011
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EXISTING SYMBOLS

DRAINAGE	
	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
	DRAINAGE INLET
	DRAINAGE JUNCTION BOX
	DRAINAGE MANHOLE
	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES	
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	CURB
	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
	LAMP AND POST - RESIDENTIAL
	MAILBOX
	PARKING METER AND POST
	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
	PILE - BRIDGE
	PILLAR OR MISCELLANEOUS POST
	TRAFFIC SIGN AND POST
	WALL - BRICK OR BLOCK
	WALL - STONE

NATURAL ROADSIDE FEATURES	
	GRASS LAWN
	HEDGEROW OR THICKET
	MARSH BOUNDARY LINE
	TREE - CONIFEROUS
	TREE - DECIDUOUS
	TREE STUMP
	SHRUBBERY
	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

RIGHT-OF-WAY SYMBOLS	
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE
	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER VENT OR CLEANOUT
	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	TELEPHONE MANHOLE
	TELEPHONE TEST POINT
	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
	WATER - FIRE HYDRANT
	WATER METER
	WATER VALVE
	WELL HEAD
	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES	
	CHESAPEAKE UTILITY - GAS
	DELDOT SIGNAL CONDUIT
	VERIZON

PROPOSED SYMBOLS

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CONSTRUCTION BASELINE
	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CURB OPENING
	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LATERAL OFFSET
	LIMIT OF CONSTRUCTION
	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - USE ITEM 705005 - P.C.C. SIDEWALK, 8" USE ITEM 705530 - TRIANGULAR CHANNELIZING ISLANDS
	UNDERDRAIN
	UNDERDRAIN OUTLET

RIGHT-OF-WAY SYMBOLS	
	PROPOSED RIGHT-OF-WAY MONUMENT
	PROPOSED DENIAL OF ACCESS
	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED R/W & DENIAL OF ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING
	CURB RAMP / TYPE
	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	CONSTRUCTION SAFETY FENCE
	DRAINAGE INLET
	DO NOT DISTURB
	ENERGY DISSIPATOR
	FENCE
	FLARED END SECTION
	FILL WITH FLOWABLE FILL
	FILTRATION STRUCTURE
	GUARDRAIL
	JUNCTION BOX
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	REMOVE BY CONTRACTOR
	REMOVE BY OTHERS
	UNDERDRAIN / LENGTH
	UNDERDRAIN OUTLET PIPE

LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC	
	ITMS CONDUIT
	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)	
	RECONSTRUCTED PAVEMENT 2" BITUMINOUS CONCRETE, TYPE C, 160 GYRATIONS, PG 70-22, (NON-CARBONATE STONE) - ITEM 401830 3" BITUMINOUS CONCRETE, TYPE B, 160 GYRATIONS, PG 70-22 - ITEM 401813 6" BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 - ITEM 401819 8" GABC, TYPE B - ITEM 302007

GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

EROSION POTENTIAL FOR THIS PROJECT	CONTRACTOR ESC SUPERVISOR REQUIREMENT
() INSIGNIFICANT	NONE
(X) MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MEDIUM	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.

3. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
()	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

4. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

()	CROSS SECTIONS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)
()	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

5. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 743000.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR SHALL BE PAID FOR UNDER ITEM 743031.

6. THE DISTURBED AREA FOR THIS PROJECT IS 1.85 ACRES.
7. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR WILL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS. THE STORMWATER ENGINEER WILL REVIEW THE CURRENT SEDIMENT AND STORMWATER MANAGEMENT PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

PROJECT NOTES

SECTION 100

1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

SECTION 200

2. THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE SET 46 INCHES ABOVE THE ROADWAY SURFACE. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE PLACED IN AN APPROPRIATE SIZE PVC SLEEVE. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT.
3. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 202000 - EXCAVATION AND EMBANKMENT, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

SECTION 300

4. A. THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B':
- CRUSHED STONE (PER STANDARD SPECIFICATION 821)
 - CRUSHED CONCRETE (PER STANDARD SPECIFICATION B21)
 - HOT-MIX MILLINGS (PER SPECIAL PROVISION 302514 MILLED HOT-MIX BASE COURSE)

THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

ALL OF THE ABOVE LISTED MATERIALS ARE PERMITTED FOR USE ON THE JOB, PROVIDED THEY ARE SEPARATED INTO APPROVED AREAS. EACH AREA OF BASE COURSE MUST BE CONSTRUCTED USING MATERIALS FROM A SINGULAR SOURCE, FULL DEPTH, IN ORDER THAT PROPER TESTING MAY BE ACCOMPLISHED. THE CONTRACTOR AND ENGINEER SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT.

B. THE QUANTITY USED FOR BASE OF EACH OF THE ABOVE LISTED MATERIALS WILL BE THE CONTRACTOR'S CHOICE, WITH THE TOTAL BEING EQUAL TO THE ACTUAL QUANTITY USED UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

C. THE CONTRACTOR MAY ALSO ELECT TO RECYCLE MILLINGS FOR USE IN HOT-MIX AS PERMITTED BY THE STANDARD SPECIFICATIONS. THE CHOICE OF THE QUANTITY OF MILLINGS USED FOR THIS PURPOSE, OR FOR BASE COURSE, LIES WITH THE CONTRACTOR. ALL EXCESS MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

D. HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:

- MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT UNDER ITEM 760507.
- MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000.
- MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER OUTSIDE SOURCE.

ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 302514 - MILLED HOT-MIX BASE COURSE.

E. PAYMENT CLARIFICATION:

- SHOULD THE CONTRACTOR ELECT TO MILL PORTIONS OF HOT-MIX SHOWN ON THE PLANS TO BE REMOVED UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT THE COST OF MILLING THIS HOT-MIX WILL BE PAID AS ITEM 202000 - EXCAVATION AND EMBANKMENT. THE MILLINGS GENERATED MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE, OR DISPOSED OF TO AN APPROVED SITE. HAULING COSTS FOR DISPOSAL AND/OR RECYCLING ARE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.
- MILLINGS GENERATED UNDER ITEM 760502 - PAVEMENT MILLINGS, TAPER CUT MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE OR DISPOSED OF BY THE CONTRACTOR TO AN APPROVED SITE. NO SEPARATE PAYMENT WILL BE MADE FOR TRANSPORTING MILLINGS ON SITE OR TO AN APPROVED DISPOSAL SITE.
- SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.
- MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE. NO SEPARATE PAYMENT WILL BE MADE TO FURNISH MILLINGS FROM AN OUTSIDE SOURCE OR TRANSPORT MILLINGS WITHIN THE PROJECT LIMITS. MILLINGS USED FOR BASE COURSE WILL BE PAID FOR AT THE UNIT BID PRICE FOR ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.
- ALL COSTS TO UTILIZE MILLINGS IN RECYCLED HOT-MIX WILL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE HOT-MIX ITEM USING THE RECYCLED MATERIAL.
- SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE IS PROVIDED TO SPECIFY THE MEANS OF LAY DOWN AND COMPACTION AS WELL AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS BASE COURSE. ALL COSTS TO BRING THE MILLINGS INTO COMPLIANCE WITH THE REQUIREMENTS OF ITEM - 302514 MILLED HOT-MIX BASE COURSE ARE INCIDENTAL TO ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'. NO PAYMENT WILL BE MADE FOR ITEM 302514 - MILLED HOT-MIX BASE COURSE. THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE.

SECTION 600

5. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.

SECTION 700

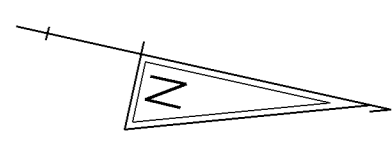
6. IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND THE TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING SAW CUTTING EXISTING CURB SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.
7. PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.
8. STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS, AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.
9. DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO ITEM 708060 - REPLACING DRAINAGE INLET GRATE(S). FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.
10. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.
11. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763621 - CONSTRUCTION ENGINEERING.

SECTION 900

12. IN AREAS WHERE EXISTING DITCHES ARE TO BE REGRADED DUE TO CURB PLACEMENT, ITEM 908020 - EROSION CONTROL BLANKET MULCH SHALL BE USED. LOCATIONS INCLUDE IN THE CENTER MEDIAN AT STATIONS 106+40 TO 106+70 AND STATIONS 107+90 TO 108+30, TOTTALLING APPROXIMATELY 62 SQUARE YARDS.
13. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI'S KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S TEAM SUPPORT SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

MISCELLANEOUS

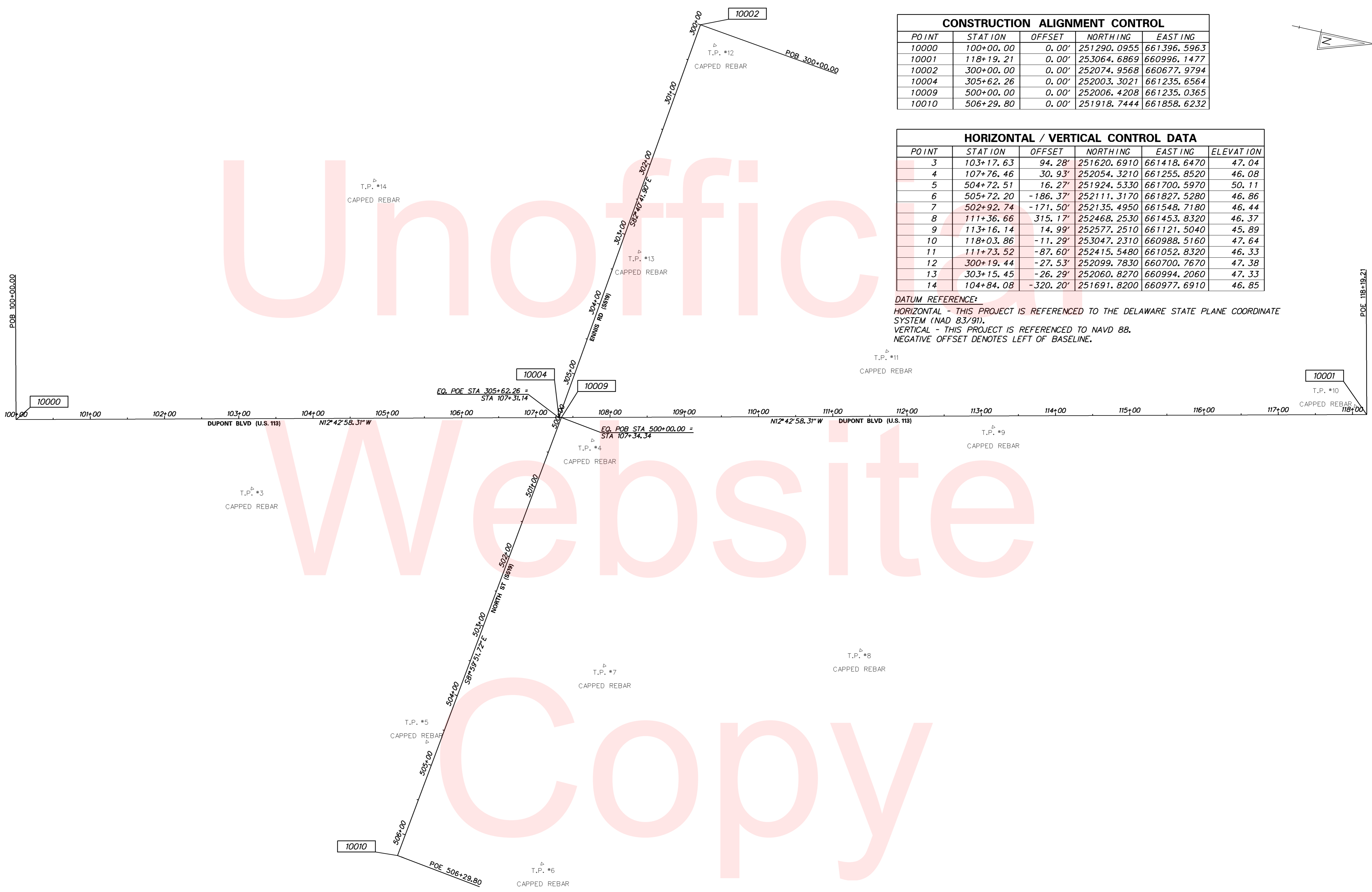
14. THE CONTRACTOR SHALL CONTACT MICHAEL ELLER, THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6061.
15. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PREPARED.



CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10000	100+00.00	0.00'	251290.0955	661396.5963
10001	118+19.21	0.00'	253064.6869	660996.1477
10002	300+00.00	0.00'	252074.9568	660677.9794
10004	305+62.26	0.00'	252003.3021	661235.6564
10009	500+00.00	0.00'	252006.4208	661235.0365
10010	506+29.80	0.00'	251918.7444	661858.6232

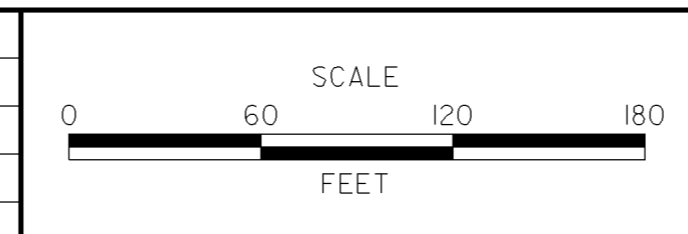
HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
3	103+17.63	94.28'	251620.6910	661418.6470	47.04
4	107+76.46	30.93'	252054.3210	661255.8520	46.08
5	504+72.51	16.27'	251924.5330	661700.5970	50.11
6	505+72.20	-186.37'	252111.3170	661827.5280	46.86
7	502+92.74	-171.50'	252135.4950	661548.7180	46.44
8	111+36.66	315.17'	252468.2530	661453.8320	46.37
9	113+16.14	14.99'	252577.2510	661121.5040	45.89
10	118+03.86	-11.29'	253047.2310	660988.5160	47.64
11	111+73.52	-87.60'	252415.5480	661052.8320	46.33
12	300+19.44	-27.53'	252099.7830	660700.7670	47.38
13	303+15.45	-26.29'	252060.8270	660994.2060	47.33
14	104+84.08	-320.20'	251691.8200	660977.6910	46.85

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



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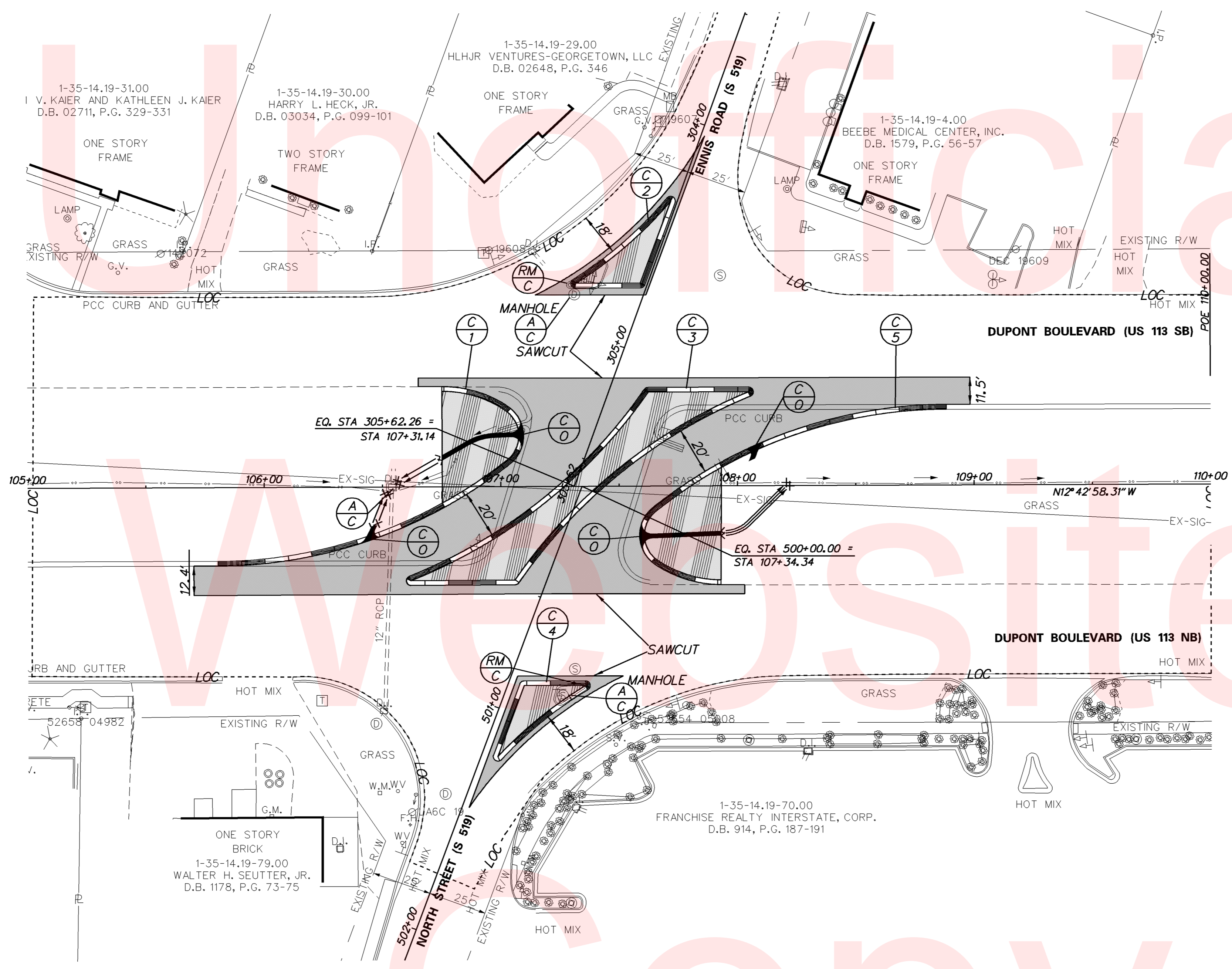
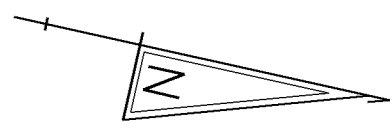
ADDENDUMS / REVISIONS



CONTRACT	BRIDGE NO.	NA
T201600901	DESIGNED BY: ANM	
COUNTY	CHECKED BY: JLC	
SUSSEX		

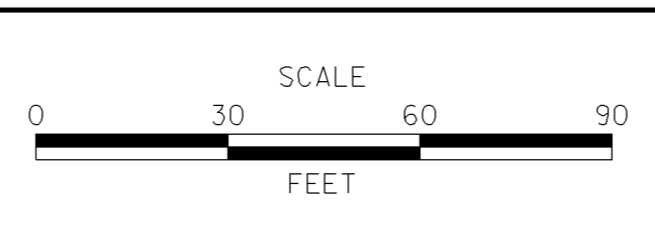
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 2	191'
2	PCC CURB, TYPE 2	** 131'
3	PCC CURB, TYPE 2	358'
4	PCC CURB, TYPE 2	** 118'
5	PCC CURB, TYPE 2	192'

**THE COST FOR CONSTRUCTING THIS CURB IS INCIDENTAL TO ITEM 7055.30 - TRIANGULAR CHANNELIZING ISLANDS.



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ADDENDUMS / REVISIONS

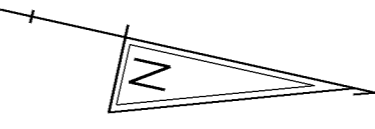


TASK 1 - HEP SC, US 113 AT ENNIS ROAD/NORTH STREET

CONTRACT	BRIDGE NO.	NA
T201600901	DESIGNED BY: ANM	
COUNTY	CHECKED BY: JLC	
SUSSEX		

CONSTRUCTION PLAN

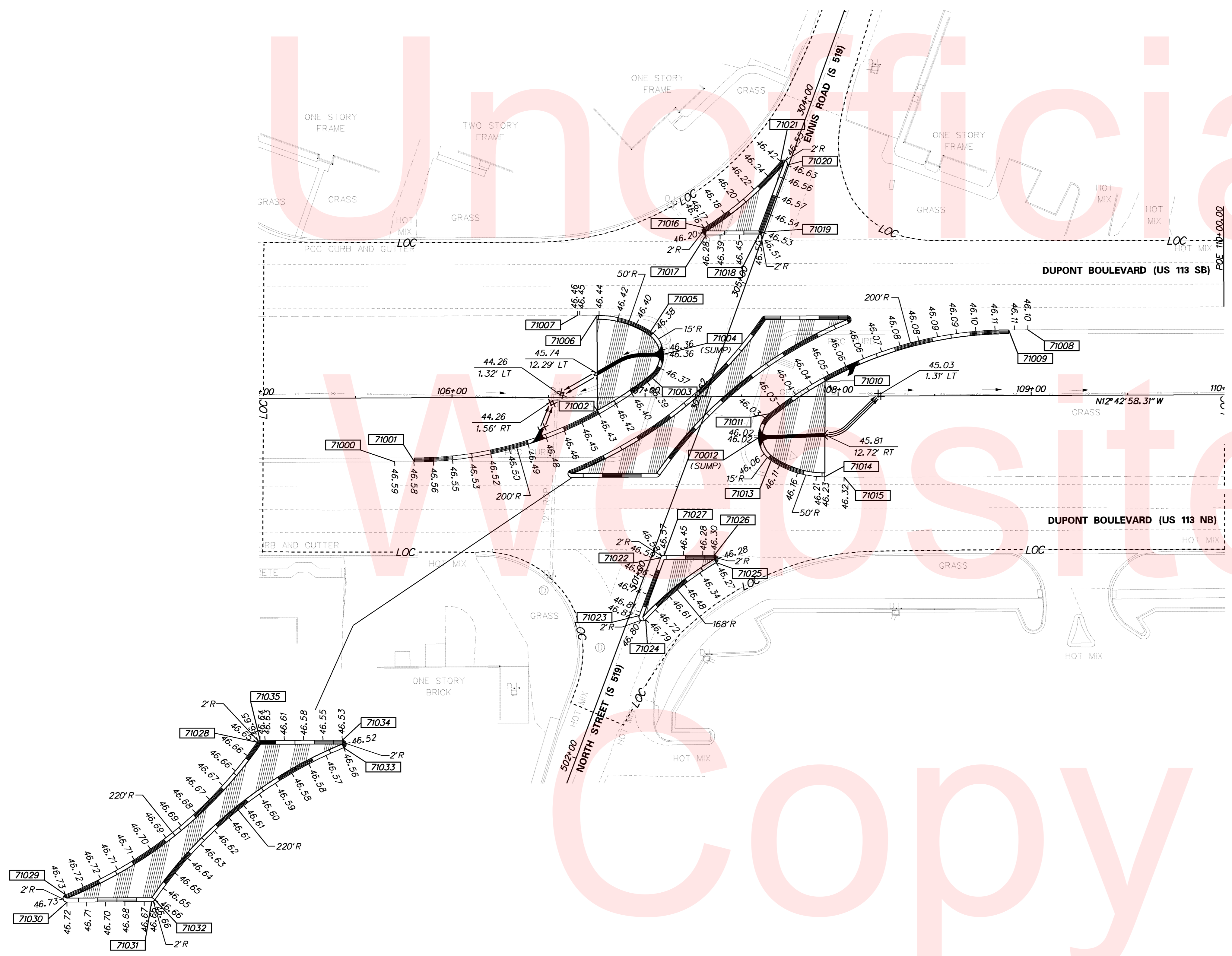
SHEET NO.	5
TOTAL SHTS.	12



COORDINATE LIST

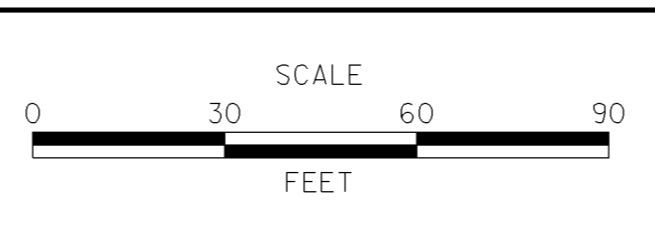
POINT NO.	STATION	OFFSET	NORTHING	EASTING
71000	105+70.21	33.12	251853.6135	661303.3878
71001	105+80.45	33.13	251863.6009	661301.1416
71002	106+75.31	6.80	251950.3373	661254.5830
71003	107+03.95	-9.74	251974.6381	661232.1436
71004	107+09.66	-22.13	251977.4789	661218.8005
71005	107+02.97	-34.02	251968.3370	661208.6747
71006	106+75.29	-42.37	251939.4982	661206.6226
71007	106+65.29	-42.43	251929.7303	661208.7654
71008	108+98.39	-34.04	252158.9617	661165.6369
71009	108+88.40	-34.05	252149.2097	661167.8231
71010	107+93.22	-7.78	252062.1512	661214.3981
71011	107+64.33	8.93	252037.6451	661237.0593
71012	107+58.63	21.26	252034.7990	661250.3385
71013	107+65.22	33.13	252043.8397	661260.4727
71014	107+92.97	41.71	252072.7978	661262.7324
71015	108+02.97	41.83	252082.5794	661260.6470
71016	304+80.16	30.24	251983.7714	661150.3727
71017	304+83.27	27.98	251985.6177	661153.7454
71018	304+73.93	2.34	252012.2402	661147.7500
71019	304+72.07	1.02	252013.7827	661146.0675
71020	304+34.99	0.76	252018.7633	661109.3279
71021	304+34.28	4.64	252015.0102	661150.1305
71022	500+87.35	-4.57	251998.7813	661322.1736
71023	501+19.20	-4.69	251994.4646	661353.7237
71024	501+19.95	-8.53	251998.1696	661355.0096
71025	500+79.46	-32.41	252027.4507	661318.2380
71026	500+76.34	-30.14	252025.6395	661314.8337
71027	500+85.47	-5.86	252000.3265	661320.4929
71028	107+60.70	-40.83	252023.1460	661189.3220
71029	106+61.21	37.74	251943.4003	661287.8668
71030	106+61.96	41.60	251944.9745	661291.4678
71031	107+05.80	41.48	251987.7113	661281.6954
71032	107+07.44	40.62	251989.1199	661280.4947
71033	108+05.60	-37.85	252067.6029	661182.3417
71034	108+04.85	-41.71	252066.0214	661178.7479
71035	107+62.33	-41.68	252024.5560	661188.1281

- NOTES:**
1. OFFSETS SHOWN IN THE COORDINATE LIST WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
 2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO EDGE OF PAVEMENT.
 3. RADIARE GIVEN TO THE EDGE OF PAVEMENT.
 4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
 5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OUT OF GRADES SHALL BE PAID FOR UNDER ITEM 763621 - CONSTRUCTION ENGINEERING.
 6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



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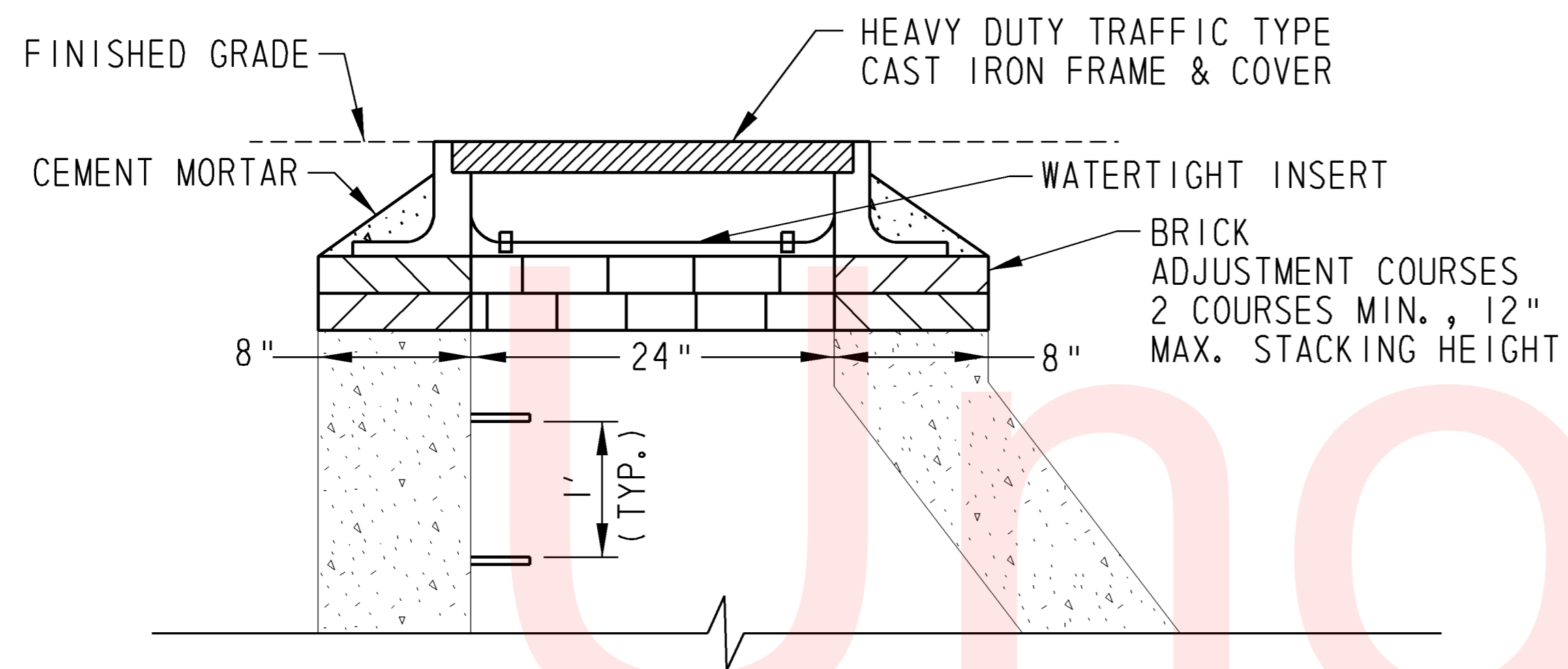
ADDENDUMS / REVISIONS



TASK 1 - HEP SC, US 113 AT ENNIS ROAD/NORTH STREET

CONTRACT	BRIDGE NO.	NA
T201600901	DESIGNED BY:	ANM
COUNTY	CHECKED BY:	JLC
SUSSEX		

GRADES AND GEOMETRICS	SHEET NO.	6
	TOTAL SHTS.	12



**SEWER MANHOLE
VERTICAL ADJUSTMENT**

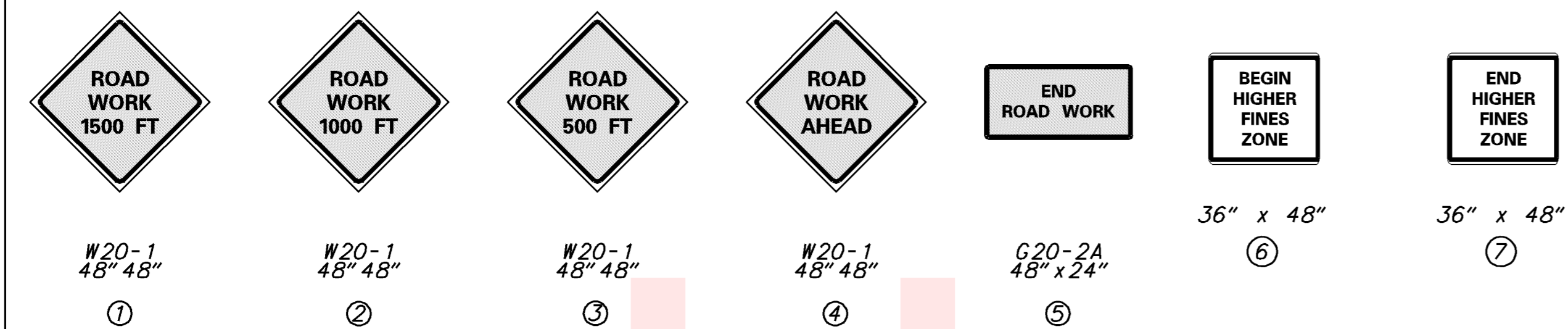
NOT TO SCALE

NOTE:

- I. ALL WORK AND MATERIALS SHOWN IN DETAIL ABOVE SHALL BE INCLUDED UNDER ITEM 710506 - ADJUST AND REPAIR EXISTING SANITARY MANHOLE.

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WARNING SIGN LEGEND

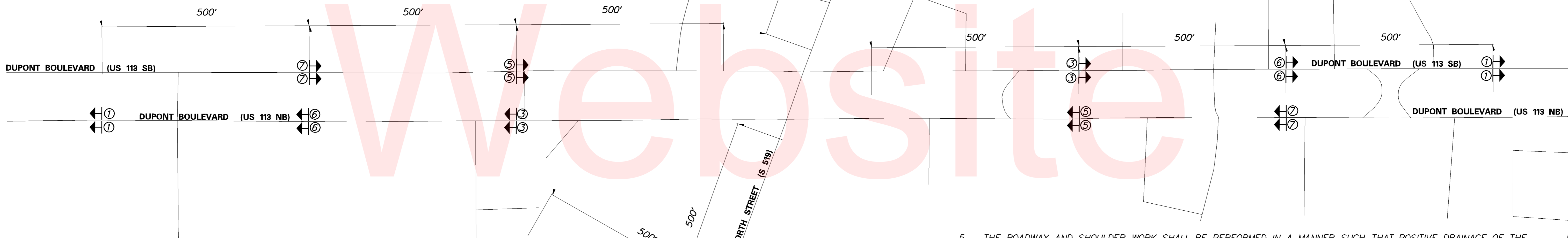
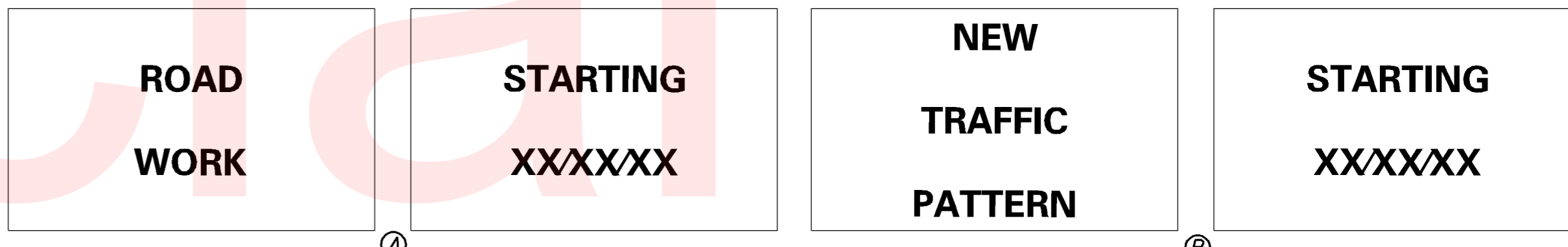


NOTES:

- SEE INDIVIDUAL PHASING PLANS FOR PLACEMENT OF TEMPORARY WARNING SIGNS. FINAL LOCATION OF ALL PERMANENT WARNING SIGNS SHALL BE COORDINATED WITH THE ENGINEER.
- ALL WARNING SIGNS SHOWN ON THIS SHEET ARE TO BE DISPLAYED THROUGHOUT THE DURATION OF THE CONTRACT AND ARE TO BE PAID FOR UNDER ITEM 743024 - WARNING SIGNS.
- ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED AS NEEDED, AS DIRECTED BY THE ENGINEER.

GENERAL MOT NOTES

- MAINTENANCE OF TRAFFIC DURING LANE CLOSURES SHALL CONFORM TO TYPICAL APPLICATION 3A, 10, AND 33 OF THE DELAWARE MUTCD.
- GRADING AND MAINTAINING HOTMIX TRM THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO PAVEMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.
- THE CONTRACTOR SHALL SUPPLY PORTABLE CHANGEABLE MESSAGE BOARDS (PCMS) UNDER ITEM 743004. ONE PCMS WILL BE PLACED ALONG US 113 NORTHBOUND, US 113 SOUTHBOUND, S519 EASTBOUND, AND S519 WESTBOUND PRIOR TO THE WORK AREA. PLACEMENT SHALL BE COORDINATED WITH THE DISTRICT SAFETY OFFICER. THE PCMS'S SHOULD BE PLACED A MINIMUM OF TEN (10) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION TO REMIND ROAD USERS OF PENDING ROAD WORK AND NEW TRAFFIC PATTERN. DISPLAY MESSAGE A FOR 10 DAYS PRIOR TO WORK THEN MESSAGE B FOR 5 DAYS AFTER. THE PCMS SHOULD HAVE THE FOLLOWING MESSAGE: MESSAGE A - ROAD WORK STARTING XX/XX/XX AND MESSAGE B - NEW TRAFFIC PATTERN STARTING XX/XX/XX.
- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT AS DIRECTED BY THE ENGINEER. ALL REPAIRS ARE AT THE CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER.



US 113 ALLOWABLE LANE CLOSURES

	12:00 AM	1:00 AM	2:00 AM	3:00 AM	4:00 AM	5:00 AM	6:00 AM	7:00 AM	8:00 AM	9:00 AM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PM	3:00 PM	4:00 PM	5:00 PM	6:00 PM	7:00 PM	8:00 PM	9:00 PM	10:00 PM	11:00 PM
SUNDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X			
MONDAY								X	X	X	X	X	X	X	X	X	X	X	X	X	X			
TUESDAY								X	X	X	X	X	X	X	X	X	X	X	X	X	X			
WEDNESDAY								X	X	X	X	X	X	X	X	X	X	X	X	X	X			
THURSDAY								X	X	X	X	X	X	X	X	X	X	X	X	X	X			
FRIDAY								X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SATURDAY	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

 lane closed
X lane open

- THE ROADWAY AND SHOULDER WORK SHALL BE PERFORMED IN A MANNER SUCH THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS MAINTAINED THROUGHOUT CONSTRUCTION. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN THIS DRAINAGE SHALL BE INCIDENTAL ITEM 743000 - MAINTENANCE OF TRAFFIC.
- THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE MOBILITY PROCEDURES AND GUIDELINES. A TYPE B TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING THE DEPARTMENT'S SAFETY PROGRAMS MANAGER AT (302)659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IF CHANGES TO THE TIME RESTRICTIONS OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.
- THE ALLOWABLE TRAVEL LANE CLOSURE HOURS FOR US 113 ARE 8PM TO 6AM, SUNDAY PM THROUGH FRIDAY AM. WORK ON THE SIDE STREETS THAT DO NOT REQUIRE A LANE CLOSURE ON US 113 CAN OCCUR DURING THE DAY.
- THE CONTRACTOR SHALL MOUNT A "NEW TRAFFIC PATTERN" PLAQUE (W-23-2P-DE) ABOVE THE NEW INTERSECTION WARNING SIGN IN THE NORTHBOUND AND SOUTHBOUND DIRECTION ON US 113. THE SIGN SHOULD BE MOUNTED FOR NINETY (90) DAYS AFTER THE NEW TRAFFIC PATTERN IS IN PLACE. THE CONTRACTOR SHALL COORDINATE WITH DELDOT'S SIGN SHIP FOR FABRICATION OF THE SIGN. IN ADDITION, THE CONTRACTOR SHOULD ADVISE DELDOT'S SIGN SHIP WHEN THE NINETY (90) DAY EXPIRATION IS ANTICIPATED FOR DELDOT TO SCHEDULE THE REMOVAL OF THE SIGN.
- INSTALL PORTABLE CHANGEABLE MESSAGE BOARDS ON US113 AND S519 TO DISPLAY NEW TRAFFIC PATTERN MESSAGE. INSTALL DRUMS TO PERMANENTLY CLOSE MEDIAN AND CHANNELIZE S519 TO RIGHTS IN/OUT ONLY. INSTALL PERMANENT SIGNAGE PER SIGNING, STRIPING AND CONDUIT PLAN SHEET PRIOR TO CONSTRUCTION AND IMPLEMENTATION OF DRUM CONFIGURATION. THIS SHALL BE COMPLETED IMMEDIATELY.
- CONTRACTOR SHALL COORDINATE THIS MOT PLAN WITH THE TOWN OF GEORGETOWN AND THE LOCAL SCHOOL DISTRICT.

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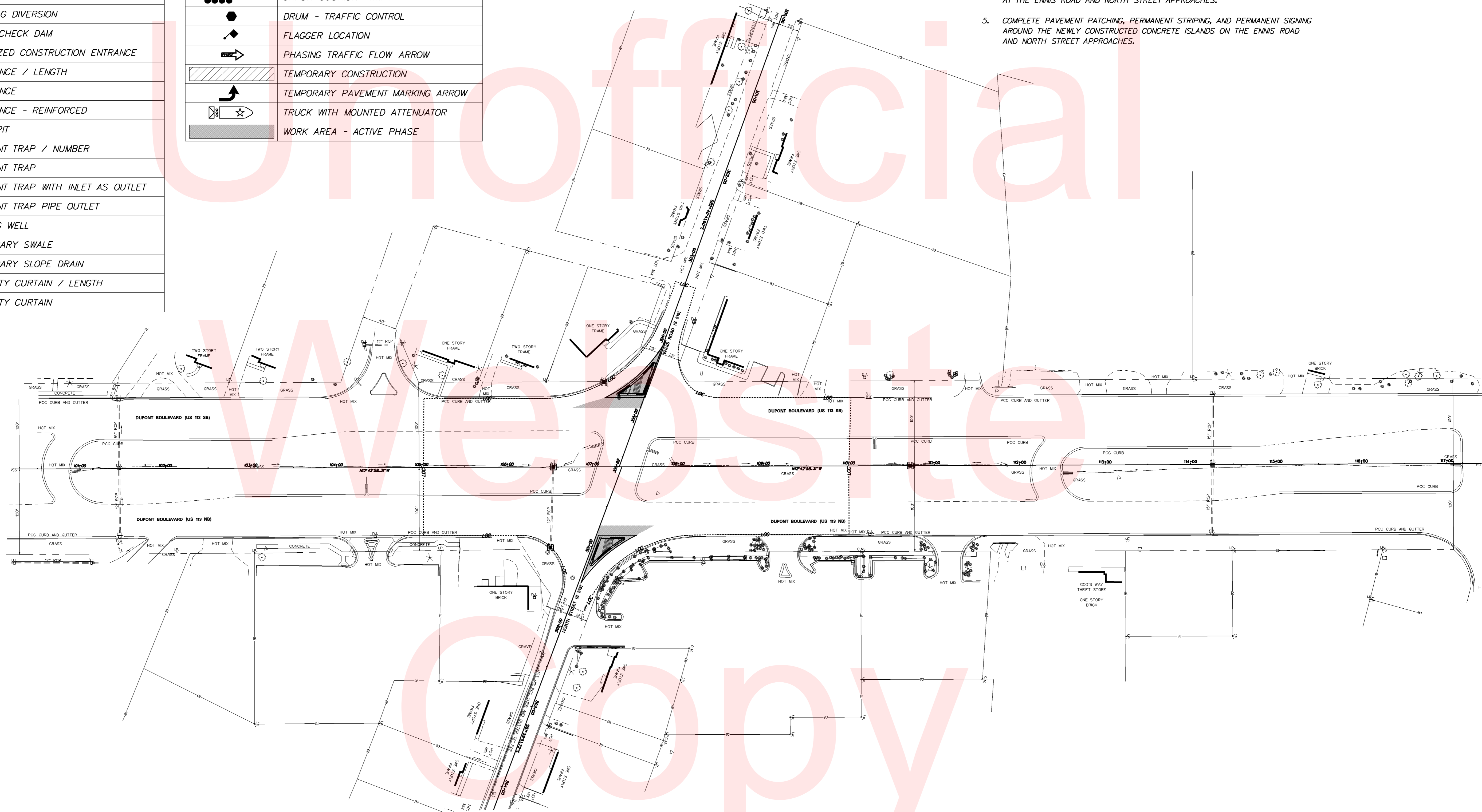
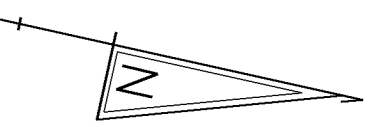
	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 120 240 360 FEET	TASK 1 - HEP SC, US 113 AT ENNIS ROAD/NORTH STREET	CONTRACT T201600901 COUNTY SUSSEX	BRIDGE NO. NA DESIGNED BY: ANM CHECKED BY: JLC	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN	SHEET NO. 8 TOTAL SHTS. 12
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EROSION & SEDIMENT CONTROL	
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	SILT FENCE - REINFORCED
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

SEQUENCE OF CONSTRUCTION

1. INSTALL PERMANENT ADVANCE WARNING SIGNS.
2. INSTALL EROSION AND SEDIMENT CONTROL AS SHOWN OR AS DIRECTED BY THE ENGINEER.
3. CLOSE THE EB ENNIS ROAD AND WB NORTH STREET THROUGH MOVEMENTS AT THE INTERSECTION OF US 113. DIRECT ALL EB ENNIS ROAD TRAFFIC TO RIGHT TURN ONLY AT SB US 113 AND ALL WB NORTH STREET TRAFFIC TO RIGHT TURN ONLY AT NB US 113. NO MEDIAN ACCESS, MEDIAN SHALL REMAIN CLOSED UNTIL PROJECT COMPLETION.
4. CONSTRUCT TRAFFIC ISLANDS ON ENNIS ROAD AND NORTH STREET. SAW CUT AND REMOVE EXISTING CURBS AND PAVEMENT MATERIALS AS SHOWN ON PLANS. CONSTRUCT NEW CONCRETE CHANNELIZATION ISLAND AS SHOWN ON PLANS AT THE ENNIS ROAD AND NORTH STREET APPROACHES.
5. COMPLETE PAVEMENT PATCHING, PERMANENT STRIPING, AND PERMANENT SIGNING AROUND THE NEWLY CONSTRUCTED CONCRETE ISLANDS ON THE ENNIS ROAD AND NORTH STREET APPROACHES.



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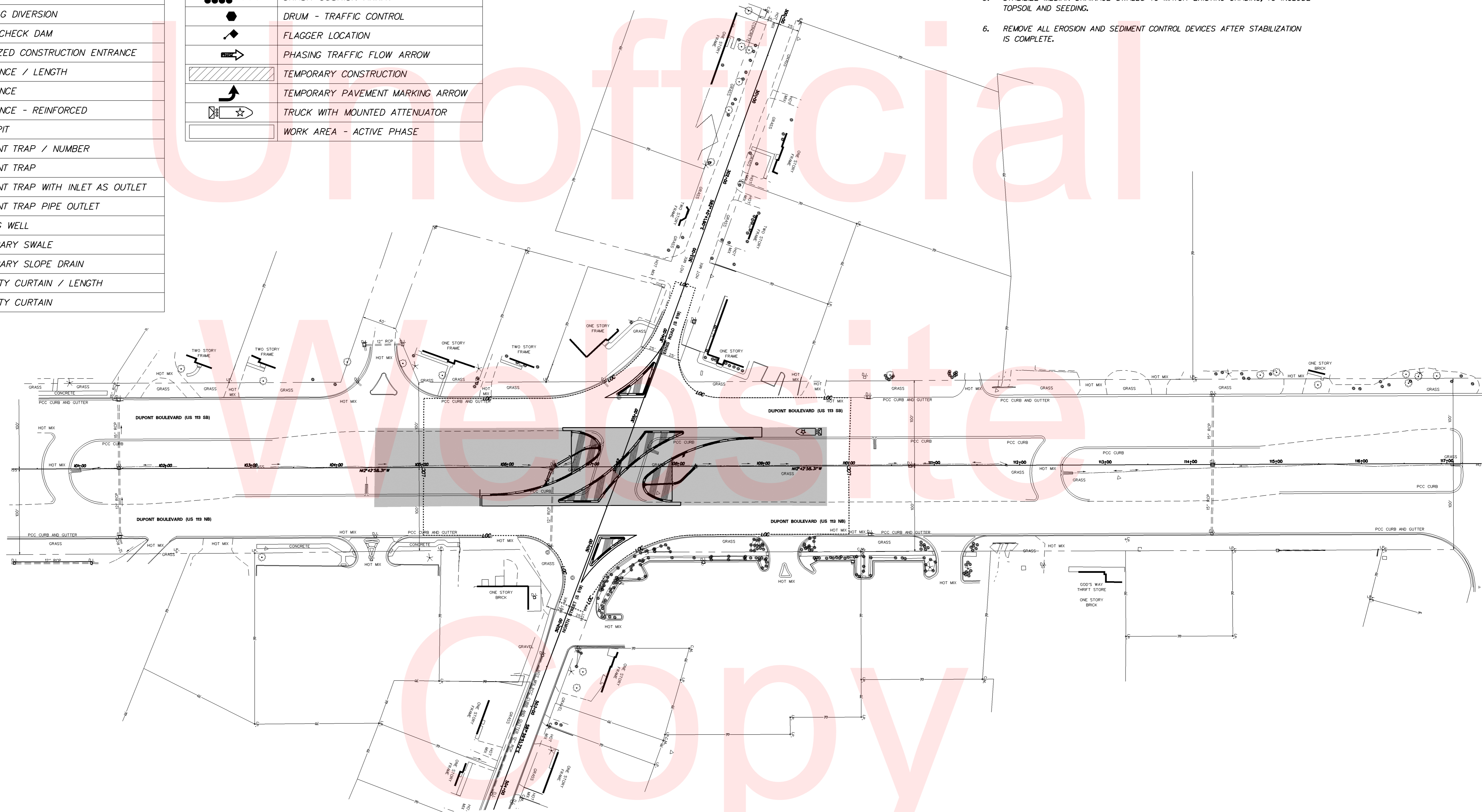
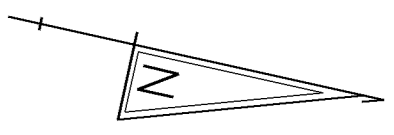
<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	<p>SCALE</p> <p>FEET</p>	<p>TASK 1 - HEP SC, US 113 AT ENNIS ROAD/NORTH STREET</p>	<p>CONTRACT T201600901</p> <p>COUNTY SUSSEX</p>	<p>BRIDGE NO. NA</p> <p>DESIGNED BY: ANM</p> <p>CHECKED BY: JLC</p>	<p>CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1</p>	<p>SHEET NO. 9</p> <p>TOTAL SHTS. 12</p>	

EROSION & SEDIMENT CONTROL	
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	SILT FENCE - REINFORCED
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

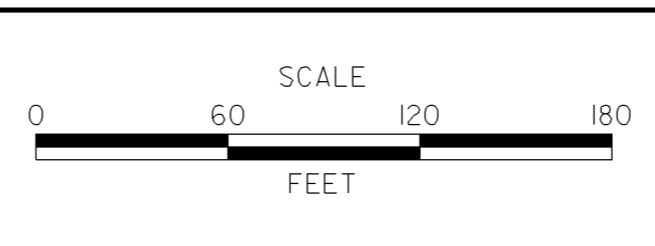
SEQUENCE OF CONSTRUCTION

1. SAW CUT AND REMOVE EXISTING CURBS AND PAVEMENT IN THE MEDIAN AS SHOWN ON PLANS.
2. CONSTRUCT CONCRETE MEDIAN CHANNELIZATION AND CURBING AS SHOWN ON THE PLANS.
3. PLACE FULL DEPTH PAVEMENT, PROVIDE PERMANENT SIGNING AND STRIPING.
4. ONCE PERMANENT SIGNING AND STRIPING ARE PLACED THE MEDIAN CROSS-OVER MAY BE OPENED TO TRAFFIC. MESSAGE BOARDS SHALL BE PLACED FOR 5 DAYS POST CONSTRUCTION TO INFORM TRAVELLING PUBLIC OF THE NEW PATTERN. MESSAGE SHALL BE APPROVED BY TRAFFIC SAFETY.
5. STABILIZE MEDIAN DRAINAGE SWALES TO MATCH EXISTING GRADING, TO INCLUDE TOPSOIL AND SEEDING.
6. REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER STABILIZATION IS COMPLETE.



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ADDENDUMS / REVISIONS



TASK 1 - HEP SC, US 113 AT ENNIS ROAD/NORTH STREET

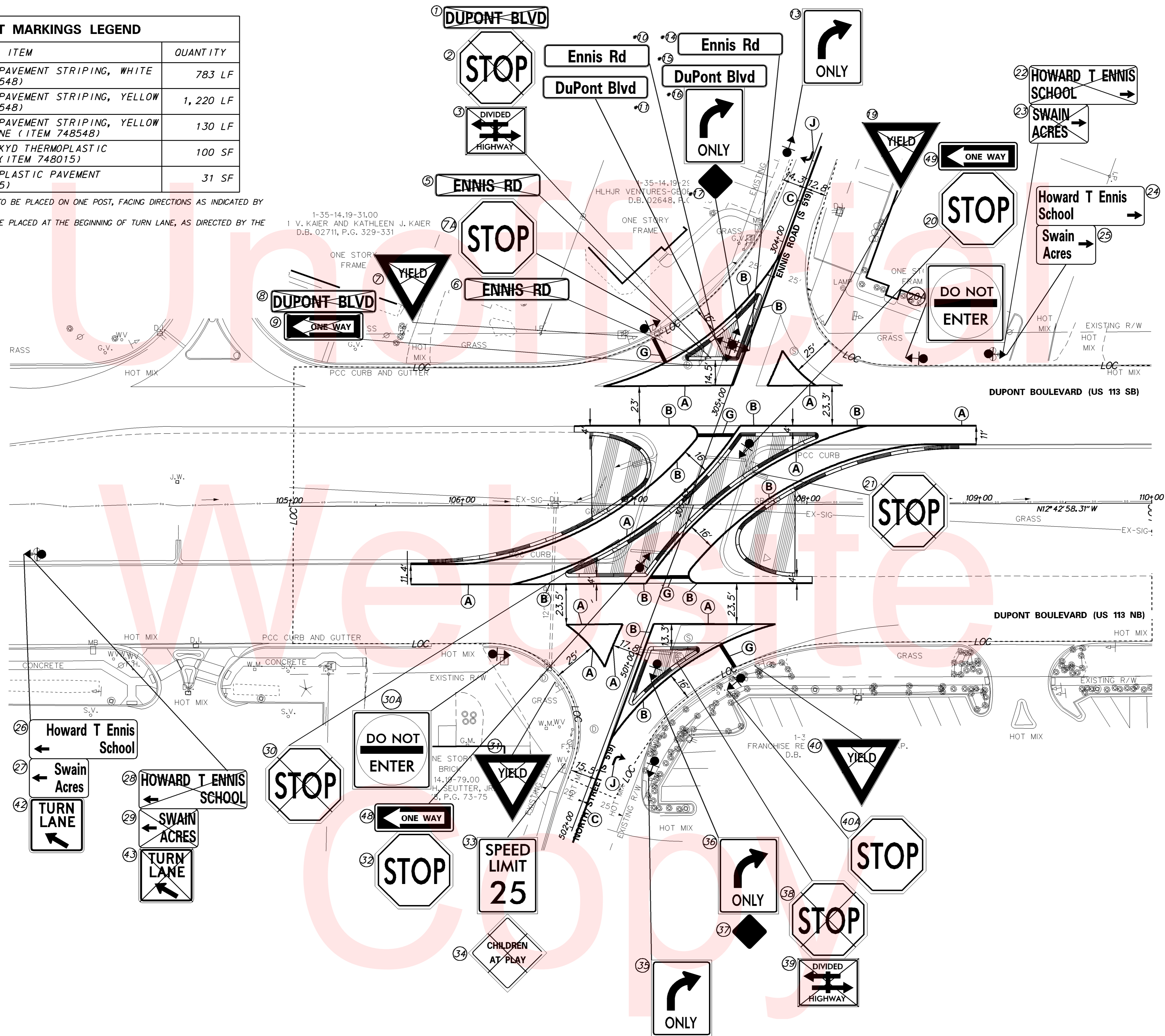
CONTRACT	BRIDGE NO.	NA
T201600901	DESIGNED BY:	ANM
COUNTY	CHECKED BY:	JLC
SUSSEX		

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2

SHEET NO.	10
TOTAL SHTS.	12

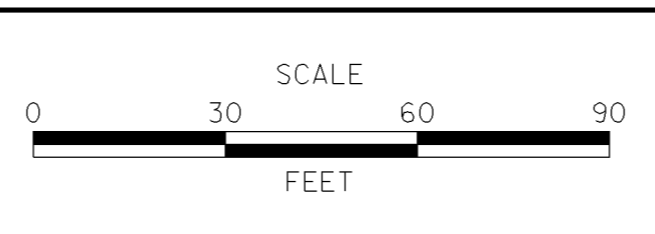
PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	783 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	1,220 LF
(C)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 748548)	130 LF
(G)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	100 SF
(J)	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	31 SF

NOTES: 1. SIGNS 10,11,14,15,16,17 ARE TO BE PLACED ON ONE POST, FACING DIRECTIONS AS INDICATED BY PROPOSED SYMBOLOGY.
 2. SIGNS 46 AND 47 ARE TO BE PLACED AT THE BEGINNING OF TURN LANE, AS DIRECTED BY THE ENGINEER.



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ADDENDUMS / REVISIONS



TASK 1 - HEP SC, US 113 AT ENNIS ROAD/NORTH STREET

CONTRACT T201600901	BRIDGE NO. NA
COUNTY SUSSEX	DESIGNED BY: ANM
	CHECKED BY: JLC

SIGNING, STRIPING AND CONDUIT PLAN

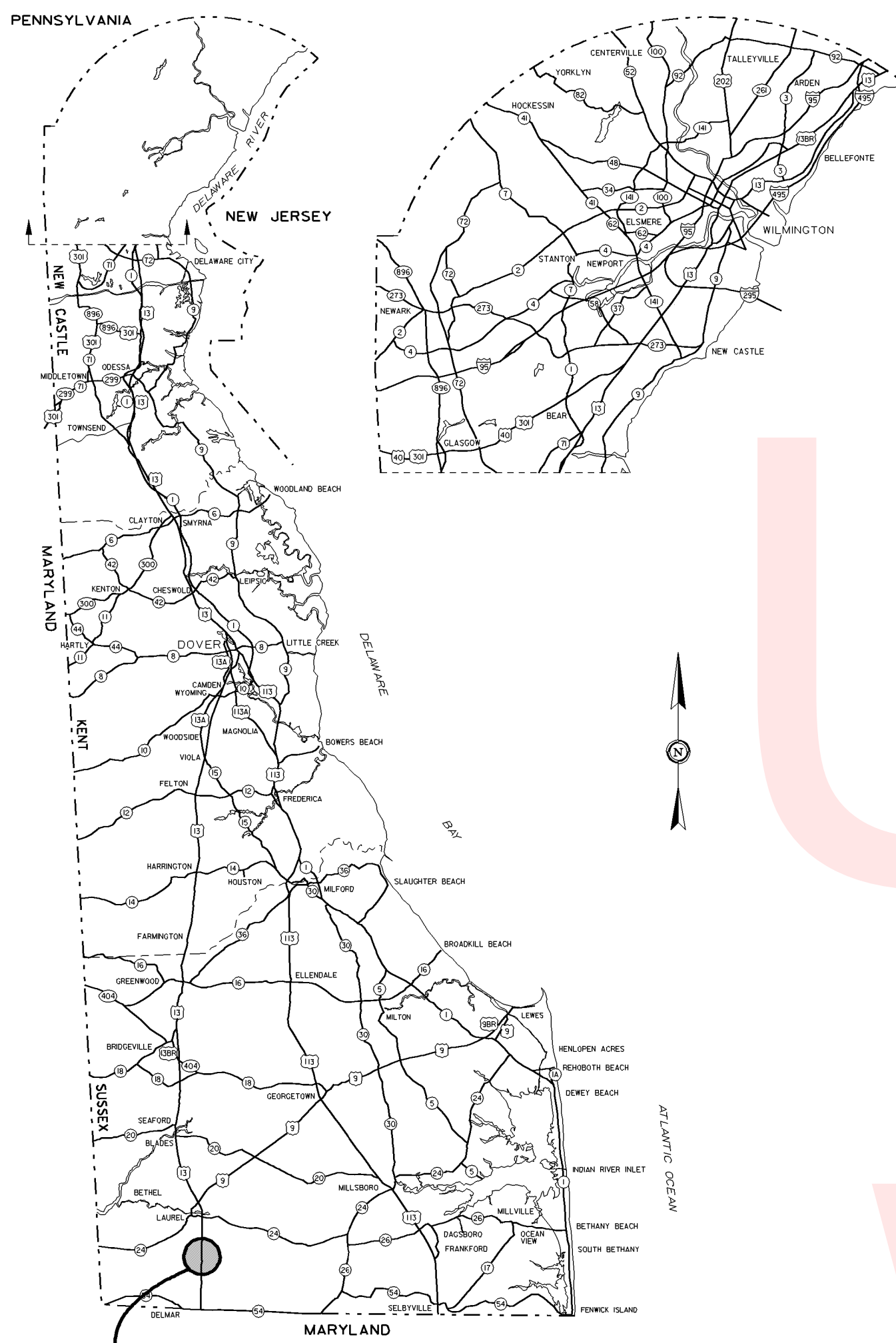
SHEET NO. 11
TOTAL SHTS. 12

SIGN SCHEDULE

#	SHEET NO.	PLAN INDICATOR	CODE	QTY	DESCRIPTION	ASSEMBLY NO.	SIGN WIDTH (IN)	SIGN HEIGHT (IN)	SIGN AREA (SF)	ITEM 749687 SINGLE POST (EACH)			ITEM 749690 MULTI POST (POST NEEDED)			POST INSTALLATION TYPE	Code X11 12' Post (W/ Basepost)	ITEM 749688 4" HOLE, 0-6" (EACH)	ITEM 749689 4" HOLE, >6" (EACH)	REMARKS
										SIGN DISPOSITION	REMOVE	INSTALL	SIGN DISPOSITION	REMOVE	INSTALL					
1678	12	1	D3-1a(12)		STREET NAME + ROUTE SHIELD (1 Line)		0	12"	0	REMOVE	1				0	0	0			
4	12	2	R1-1(36)		STOP		36"	36"	0	REMOVE					0	0	0			
406	12	3	R6-3(30)		DIVIDED HIGHWAY CROSSING (4 - Legged Intersection) - 30x24		30"	24"	0	REMOVE					0	0	0			
1677	12	5	D3-1a(9)		STREET NAME + ROUTE SHIELD (1 Line)		0	9"	0	REMOVE	1				0	0	0			
1677	12	6	D3-1a(9)		STREET NAME + ROUTE SHIELD (1 Line)		0	9"	0	REMOVE					0	0	0			
7	12	7	R1-2(30)		YIELD		30"	30"	0	REMOVE	1				0	0	0			
4	12	7A	R1-1(36)		STOP		36"	36"	9	NEW		1			1	0	0			
1678	12	8	D3-1a(12)		STREET NAME + ROUTE SHIELD (1 Line)		0	12"	0	REMOVE	1				0	0	0			
395	12	9	R6-1_L(54)		ONE WAY (ENCLOSED IN LEFT ARROW) - 54x18		54"	18"	0	REMOVE					0	0	0			
1677	12	10	D3-1a(9)		STREET NAME + ROUTE SHIELD (1 Line)		18"	9"	1.25	NEW		1			1	0	0	Ennis Rd		
1678	12	11	D3-1a(12)		STREET NAME + ROUTE SHIELD (1 Line)		30"	12"	2.5	NEW					0	0	0	DuPont Blvd		
124	12	13	R3-5_R		MANDATORY MOVEMENT LANE CONTROL (Right)		30"	36"	7.5	NEW		1			1	0	0			
1677	12	14	D3-1a(9)		STREET NAME + ROUTE SHIELD (1 Line)		18"	9"	1.25	NEW		1			1	0	0	Ennis Rd		
1678	12	15	D3-1a(12)		STREET NAME + ROUTE SHIELD (1 Line)		30"	12"	2.5	NEW					0	0	0	DuPont Blvd		
124	12	16	R3-5_R		MANDATORY MOVEMENT LANE CONTROL (Right)		30"	36"	7.5	NEW					0	0	0			
1955	12	17	OM1-3		TYPE 1 OBJECT MARKER		18"	18"	2.25	NEW					0	0	0			
7	12	19	R1-2(30)		YIELD		30"	30"	0	REMOVE	1				0	0	0			
4	12	20	R1-1(36)		STOP		36"	36"	9	NEW		1			1	0	0			
359	12	20A	R5-1(36)		DO NOT ENTER - 36x36		36"	36"	9	NEW		1			1	0	0			
4	12	21	R1-1(36)		STOP		36"	36"	0	REMOVE	1				0	0	0			
1652	12	22	D1-2(B)		DESTINATION (2 Line)		0	12"	0	REMOVE	1				0	0	0			
1652	12	23	D1-2(B)		DESTINATION (2 Line)		0	12"	0	REMOVE					0	0	0			
1652	12	24	D1-2(B)		DESTINATION (2 Line)		36"	12"	3	NEW		1			1	0	0	Howerd T Ennis School →		
1652	12	25	D1-2(B)		DESTINATION (2 Line)		18"	12"	1.5	NEW					0	0	0	Swain Acres →		
1652	12	26	D1-2(B)		DESTINATION (2 Line)		36"	12"	3	NEW		1			1	0	0	← Howerd T Ennis School		
1652	12	27	D1-2(B)		DESTINATION (2 Line)		18"	12"	1.5	NEW					0	0	0	← Swain Acres		
1652	12	28	D1-2(B)		DESTINATION (2 Line)		0	12"	0	REMOVE	1				0	0	0			
1652	12	29	D1-2(B)		DESTINATION (2 Line)		0	12"	0	REMOVE					0	0	0			
4	12	30	R1-1(36)		STOP		36"	36"	0	REMOVE	1				0	0	0			
359	12	30A	R5-1(36)		DO NOT ENTER - 36x36		36"	36"	9	NEW		1			1	0	0			
7	12	31	R1-2(30)		YIELD		30"	30"	0	REMOVE	1				0	0	0			
4	12	32	R1-1(36)		STOP		36"	36"	9	NEW		1			1	0	0			
43	12	33	R2-1-25(36)		SPEED LIMIT (25 MPH - 36x48)		36"	48"	12	RENEW	1	1			0	0	0			
	12	34			CHILDREN AT PLAY					REMOVE	1				0	0	0			
124	12	35	R3-5_R		MANDATORY MOVEMENT LANE CONTROL (Right)		30"	36"	7.5	NEW		1			1	0	0			
124	12	36	R3-5_R		MANDATORY MOVEMENT LANE CONTROL (Right)		30"	36"	7.5	NEW		1			1	0	0			
1955	12	37	OM1-3		TYPE 1 OBJECT MARKER		18"	18"	2.25	NEW					0	0	0			
4	12	38	R1-1(36)		STOP		36"	36"	0	REMOVE	1				0	0	0			
406	12	39	R6-3(30)		DIVIDED HIGHWAY CROSSING (4 - Legged Intersection) - 30x24		30"	24"	0	REMOVE					0	0	0			
7	12	40	R1-2(30)		YIELD		30"	30"	0	REMOVE	1				0	0	0			
4	12	40a	R1-1(36)		STOP		36"	36"	9	NEW		1			1	0	0			
252	12	42	R3-20-DE		TURN LANE		18"	18"	2.25	NEW					0	0	0			
252	12	43	R3-20-DE		TURN LANE		18"	18"	0	REMOVE					0	0	0			
395	12	48	R6-1_L(54)		ONE WAY (ENCLOSED IN LEFT ARROW) - 54x18		54"	18"	6.75	NEW					0	0	0			
395	12	49	R6-1_L(54)		ONE WAY (ENCLOSED IN LEFT ARROW) - 54x18		54"	18"	6.75	NEW					0	0	0			
JOB TOTALS									132.75						13	0	0			

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GENERAL LOCATION OF TASK

THE STATE OF DELAWARE
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY
UNITS



FINAL PLANS

CONSTRUCTION PLANS FOR:

OPEN-END CONSTRUCTION SERVICES, SUSSEX COUNTY
TASK 2 - HRRRP SC, US 13 AT SR 30/
DOROTHY ROAD/WHITESVILLE ROAD

CONTRACT NUMBER: T201600901
FEDERAL AID PROJECT NUMBER: ESTP-2015(31)

COUNTY: SUSSEX M.R. #: 001

M.R. #: 064



BEGIN TASK
STATION 100 + 00.00

END TASK
STATION 118 + 50.00

LOCATION MAP
NOT TO SCALE

SR 30 US 13

DESIGN DESIGNATION

FUNCTIONAL CLASS: PRINCIPAL ARTERIAL	D.H.V. PROJECTED: 1,932	YEAR: 2040
TYPE OF CONSTRUCTION: INTER. IMPROVEMENTS	DESIGN SPEED: 60 M.P.H.	
A.A.D.T. CURRENT: 24,769	YEAR: 2013	TRUCKS: 12 %
A.A.D.T. PROJECTED: 32,200	YEAR: 2040	DIRECTION OF DISTRIBUTION: 60 %
FUNCTIONAL CLASS: MAJOR COLLECTOR	D.H.V. PROJECTED: 151	YEAR: 2040
TYPE OF CONSTRUCTION: INTER. IMPROVEMENTS	DESIGN SPEED: 45 M.P.H.	
A.A.D.T. CURRENT: 2,010	YEAR: 2013	TRUCKS: 10 %
A.A.D.T. PROJECTED: 2,700	YEAR: 2040	DIRECTION OF DISTRIBUTION: 56 %

INDEX OF SHEETS

SHEET NO	TABLE OF CONTENTS
1	TITLE SHEET
2	PLAN SHEET INDEX
3	LEGEND
4	NOTES
5	HORIZONTAL AND VERTICAL CONTROL
6 - 8	CONSTRUCTION PLANS
9 - 12	GRADES AND GEOMETRICS
13 - 14	CONSTRUCTION DETAILS
15 - 24	CONSTRUCTION PHASING, M.O.T., AND ERSION CONTROL PLANS
25 - 28	SIGNING, STRIPING, AND CONDUIT PLANS

TOTAL SHEETS: 28

APPROVED DESIGN EXCEPTIONS

DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS

DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS

CONTRACT NO.	CONTRACT NAME
84-063-01	US 13 MD LINE TO LAUREL
1149	DELMAR TO GEORGETOWN LAUREL RD

PREPARED BY
THE CONSULTING FIRM OF

RECOMMENDED _____ DATE _____

SEAL

RECOMMENDED

Sarah E. Criswell 07/15/2015
SQUAD MANAGER, CONSTRUCTION DATE

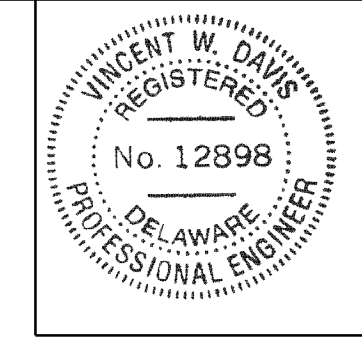
Bradford L. Schmitt 07/20/2015
GROUP ENGINEER, CONSTRUCTION DATE

Jim A. Fazio 07/20/2015
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) DATE

RECOMMENDED

Vincent W. Davis
STORMWATER ENGINEER

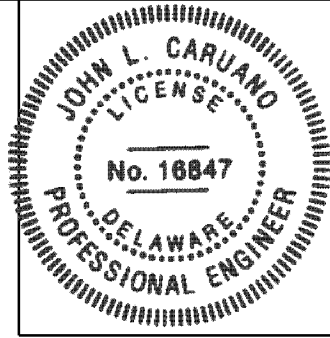
DATE 07/15/2015



RECOMMENDED

John L. Casano
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)

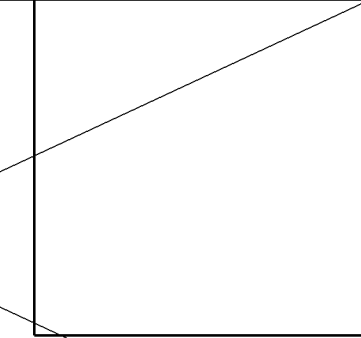
DATE 07/14/2015



RECOMMENDED

BRIDGE DESIGN ENGINEER

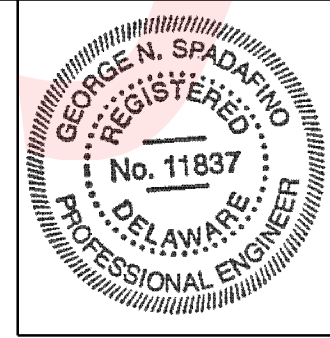
DATE _____



RECOMMENDED

George N. Spaldarino
GROUP ENGINEER, PROJECT DEVELOPMENT

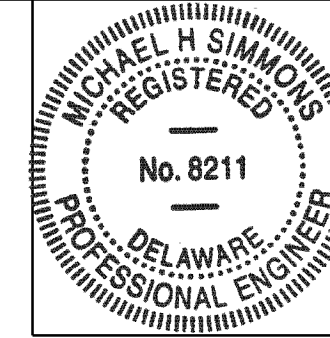
DATE 07/20/2015



RECOMMENDED

Michael H. Simojos
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS

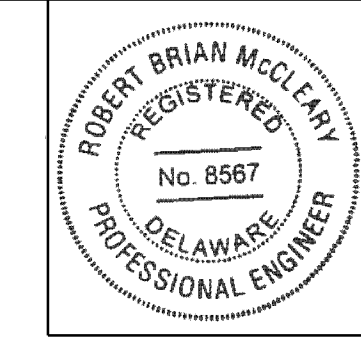
DATE 07/20/2015



APPROVED

Robert Brian McCleary
CHIEF ENGINEER

DATE 07/21/2015

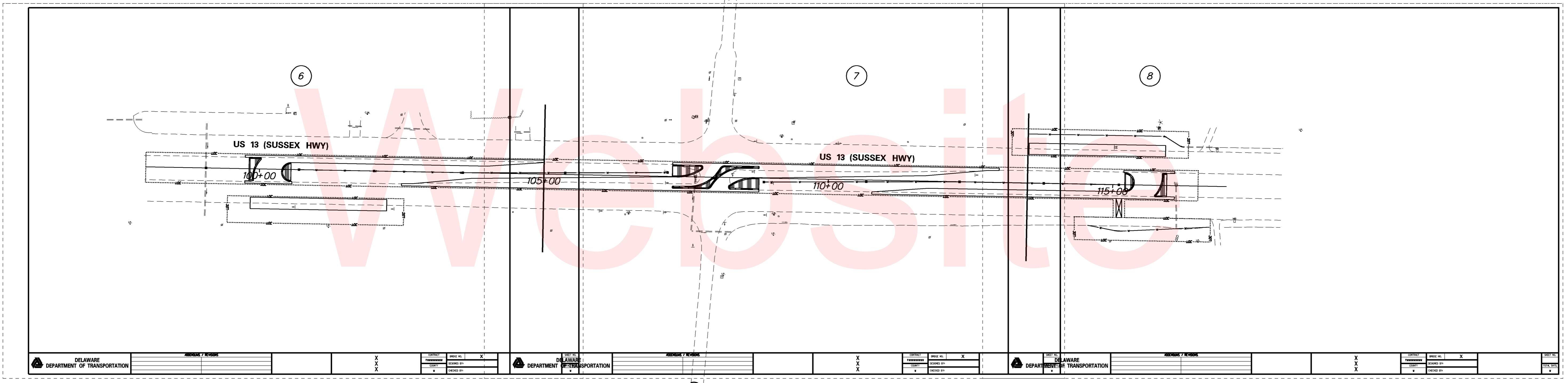




PLAN SHEET INDEX CROSS REFERENCE

CONSTRUCTION PLAN	6	7	8
GRADES AND GEOMETRICS	9	10, 11	12
CONSTRUCTION PHASING, M.O.T. AND E&S	15, 18, 21	16, 19, 22	17, 20, 23
SIGNING, STRIPING AND CONDUIT PLAN	24	25	26

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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS		TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD	CONTRACT T201600901	BRIDGE NO. X	PLAN SHEET INDEX	SHEET NO. 2	
				COUNTY SUSSEX	DESIGNED BY: NER		CHECKED BY: JLC	TOTAL SHTS. 28

EXISTING SYMBOLS

DRAINAGE	
	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
	DRAINAGE INLET
	DRAINAGE JUNCTION BOX
	DRAINAGE MANHOLE
	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES	
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	CURB
	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
	LAMP AND POST - RESIDENTIAL
	MAILBOX
	PARKING METER AND POST
	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
	PILE - BRIDGE
	PILLAR OR MISCELLANEOUS POST
	TRAFFIC SIGN AND POST
	WALL - BRICK OR BLOCK
	WALL - STONE

NATURAL ROADSIDE FEATURES	
	GRASS LAWN
	HEDGEROW OR THICKET
	MARSH BOUNDARY LINE
	TREE - CONIFEROUS
	TREE - DECIDUOUS
	TREE STUMP
	SHRUBBERY
	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

RIGHT-OF-WAY SYMBOLS	
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE
	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER VENT OR CLEANOUT
	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	TELEPHONE MANHOLE
	TELEPHONE TEST POINT
	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
	WATER - FIRE HYDRANT
	WATER METER
	WATER VALVE
	WELL HEAD
	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES	
	COMCAST CABLE
	EASTERN SHORE NATURAL GAS
	VERIZON
	VERIZON, ABANDONED

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CONSTRUCTION BASELINE
	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CURB OPENING
	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LATERAL OFFSET
	LIMIT OF CONSTRUCTION
	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - 4"
	USE ITEM 705005 - P.C.C. SIDEWALK, 8" GABC
	UNDERDRAIN
	UNDERDRAIN OUTLET

RIGHT-OF-WAY SYMBOLS	
	PROPOSED RIGHT-OF-WAY MONUMENT
	PROPOSED DENIAL OF ACCESS
	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED R/W & DENIAL OF ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY BASELINE

PROPOSED SYMBOLS

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING
	CURB RAMP / TYPE
	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	CONSTRUCTION SAFETY FENCE
	DRAINAGE INLET
	DO NOT DISTURB
	ENERGY DISSIPATOR
	FENCE
	FLARED END SECTION
	FILL WITH FLOWABLE FILL
	FILTRATION STRUCTURE
	GUARDRAIL
	JUNCTION BOX
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	REMOVE BY CONTRACTOR
	REMOVE BY OTHERS
	UNDERDRAIN / LENGTH
	UNDERDRAIN OUTLET PIPE
	SAFETY END STRUCTURE
	SIGNING

LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC	
	ITMS CONDUIT
	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)	
	RECONSTRUCTED PAVEMENT
	2" BITUMINOUS CONCRETE PAVEMENT, SUPERPAVE, TYPE C, 160 GYRATIONS, 70-22 (NON-CARBONATE STONE) - ITEM 401830
	3" BITUMINOUS CONCRETE PAVEMENT, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22 - ITEM 401810
	6" BITUMINOUS CONCRETE PAVEMENT, SUPERPAVE, BCBC, 160 GYRATIONS, PG 64-22 - ITEM 401819
	8" GABC, TYPE B - ITEM 302007

EROSION & SEDIMENT CONTROL	
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	SILT FENCE - REINFORCED
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN
	COMPOST FILTER LOG

LAST REVISED: 01/09/2014
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GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

EROSION POTENTIAL FOR THIS PROJECT	CONTRACTOR ESC SUPERVISOR REQUIREMENT
() INSIGNIFICANT	NONE
(X) MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MEDIUM	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.

3. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
()	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

4. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

()	CROSS SECTIONS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)
()	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

5. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 743000.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR SHALL BE PAID FOR UNDER ITEM 743031.

6. THE DISTURBED AREA FOR THIS PROJECT IS 3.1699 ACRES.
7. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR WILL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS. THE STORMWATER ENGINEER WILL REVIEW THE CURRENT SEDIMENT AND STORMWATER MANAGEMENT PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

PROJECT NOTES

SECTION 100

1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

SECTION 200

2. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 202000 - EXCAVATION AND EMBANKMENT, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

SECTION 300

3. A. THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B':
- CRUSHED STONE (PER STANDARD SPECIFICATION 821)
 - CRUSHED CONCRETE (PER STANDARD SPECIFICATION 821)
 - HOT-MIX MILLINGS (PER SPECIAL PROVISION 302514 MILLED HOT-MIX BASE COURSE)

THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

ALL OF THE ABOVE LISTED MATERIALS ARE PERMITTED FOR USE ON THE JOB, PROVIDED THEY ARE SEPARATED INTO APPROVED AREAS. EACH AREA OF BASE COURSE MUST BE CONSTRUCTED USING MATERIALS FROM A SINGULAR SOURCE, FULL DEPTH, IN ORDER THAT PROPER TESTING MAY BE ACCOMPLISHED. THE CONTRACTOR AND DELDOT'S PROJECT ENGINEER SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT.

- B. THE QUANTITY USED FOR BASE OF EACH OF THE ABOVE LISTED MATERIALS WILL BE THE CONTRACTOR'S CHOICE, WITH THE TOTAL MEETING THE ADVERTISED QUANTITY OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

- C. THE CONTRACTOR MAY ALSO ELECT TO RECYCLE MILLINGS FOR USE IN HOT-MIX AS PERMITTED BY THE STANDARD SPECIFICATIONS. THE CHOICE OF THE QUANTITY OF MILLINGS USED FOR THIS PURPOSE, OR FOR BASE COURSE, LIES WITH THE CONTRACTOR. ALL MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

- D. HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:
- MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT UNDER ITEM 760507.
 - MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000.
 - MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER OUTSIDE SOURCE. ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 302514 - MILLED HOT-MIX BASE COURSE.

E. PAYMENT CLARIFICATION:

- SHOULD THE CONTRACTOR ELECT TO MILL PORTIONS OF HOT-MIX SHOWN ON THE PLANS TO BE REMOVED UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT THE COST OF MILLING THIS HOT-MIX WILL BE PAID AS ITEM 202000 - EXCAVATION AND EMBANKMENT. THE MILLINGS GENERATED MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE, OR DISPOSED OF TO AN APPROVED SITE. HAULING COSTS FOR DISPOSAL AND/OR RECYCLING ARE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.
- MILLINGS GENERATED UNDER ITEM 760502 - PAVEMENT MILLINGS, TAPER CUT MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE OR DISPOSED OF BY THE CONTRACTOR TO AN APPROVED SITE. NO SEPARATE PAYMENT WILL BE MADE FOR TRANSPORTING MILLINGS ON SITE OR TO AN APPROVED DISPOSAL SITE.
- SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.
- MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE. NO SEPARATE PAYMENT WILL BE MADE TO FURNISH MILLINGS FROM AN OUTSIDE SOURCE OR TRANSPORT MILLINGS WITHIN THE PROJECT LIMITS. MILLINGS USED FOR BASE COURSE WILL BE PAID IN PLACE AT THE UNIT BID PRICE FOR ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.
- ALL COSTS TO UTILIZE MILLINGS IN RECYCLED HOT-MIX WILL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE HOT-MIX ITEM USING THE RECYCLED MATERIAL.
- SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE IS PROVIDED TO SPECIFY THE MEANS OF LAY DOWN AND COMPACTION AS WELL AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS BASE COURSE. ALL COSTS TO BRING THE MILLINGS INTO COMPLIANCE WITH THE REQUIREMENTS OF ITEM - 302514 MILLED HOT-MIX BASE COURSE ARE INCIDENTAL TO ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'. NO PAYMENT WILL BE MADE FOR ITEM 302514 - MILLED HOT-MIX BASE COURSE. THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE.

SECTION 600

4. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.

SECTION 700

- PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.
- STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS, AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.
- DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO ITEM 708060 - REPLACING CATCH BASIN GRATES. FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.
- ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT FULL DEPTH AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.
- ALL WORK REQUIRED FOR CALCULATING AND STAKING OUT OF GRADES SHALL BE PAID FOR UNDER ITEM 763621 - CONSTRUCTION ENGINEERING.

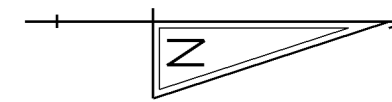
SECTION 900

10. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S TEAM SUPPORT SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

MISCELLANEOUS

- THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PROVIDED.
- THE CONTRACTOR SHALL CONTACT MICHAEL ELLER, THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6061.
- REFER TO THE CONSTRUCTION PLAN SHEETS FOR THE LOCATION OF THE CLEAR ZONE AREA LIMITS.

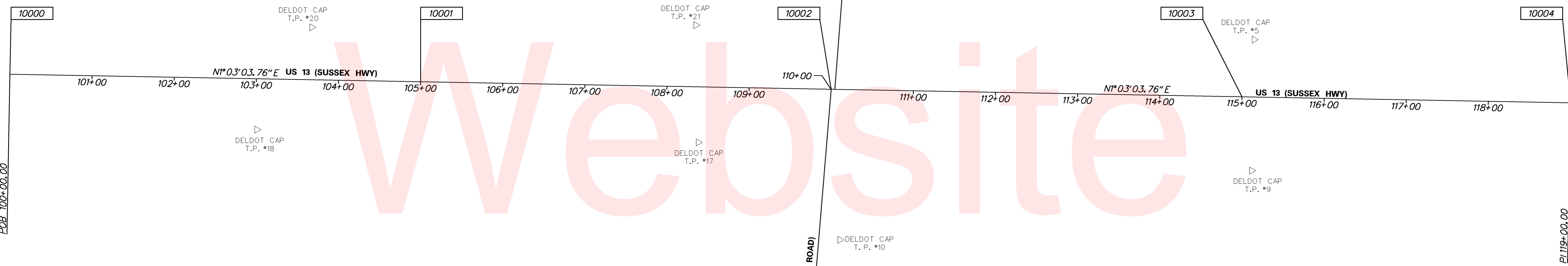
CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
10000	100+00.00	0.00'	181808.3431	615895.1366
10001	105+00.00	0.00'	182308.2590	615904.3081
10002	110+00.00	0.00'	182808.1749	615913.4797
10003	115+00.00	0.00'	183308.0907	615922.6513
10004	119+00.00	0.00'	183708.0235	615929.9886



Unofficial

Website

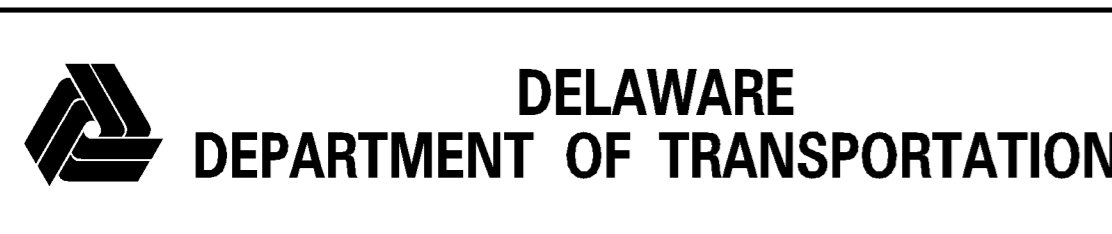
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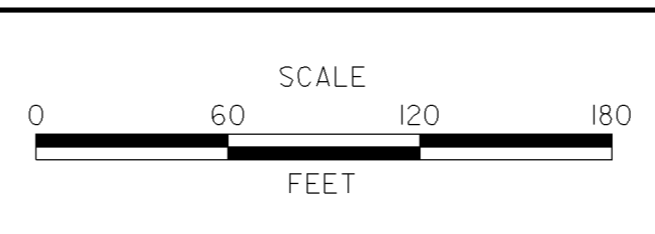
HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
4	110+34.16	-247.89'	182846.8757	615666.2609	41.40
5	115+13.74	-69.97'	183323.1104	615852.9465	42.38
9	115+13.50	89.49'	183319.9517	616012.3766	42.29
10	110+13.89	183.01'	182818.7050	616096.7182	41.81
16	N/A	N/A	182746.7208	616472.5393	41.53
17	108+39.38	67.56'	182646.3405	615978.0821	44.74
18	103+01.73	61.86'	182108.8865	615962.5239	46.68
20	103+66.44	-63.88'	182175.8965	615837.9886	47.08
21	108+33.83	-75.19'	182643.4074	615835.2545	42.62
22	N/A	N/A	182839.5812	615391.1453	41.42

NEGATIVE DENOTES LEFT OF THE BASELINE

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



ADDENDUMS / REVISIONS



TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD

CONTRACT	BRIDGE NO.	X
T201600901	DESIGNED BY: NER	
COUNTY	CHECKED BY: JLC	
SUSSEX		

HORIZONTAL AND VERTICAL CONTROL	SHEET NO.
	5
	TOTAL SHTS.
	28

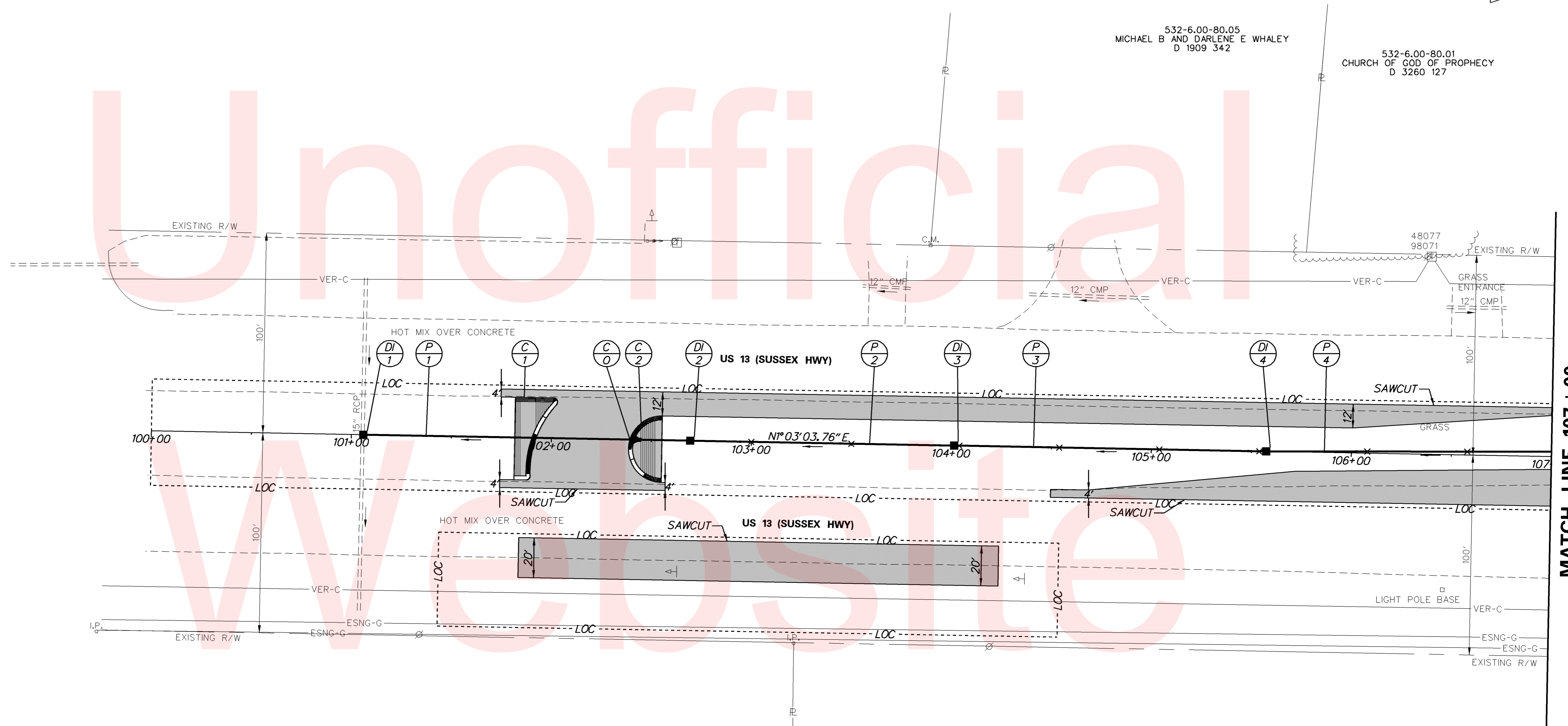
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CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	P. C. C. CURB, TYPE 2	72.00'
2	P. C. C. CURB, TYPE 2	52.00'

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
1	101+05.97	0.00'	34" x 24"	3	45.59'	40.26'
2	102+69.41	0.00'	34" x 24"	3	46.18'	41.70'
3	103+99.41	0.00'	34" x 24"	3	46.08'	42.31'
4	105+55.41	0.00'	34" x 24"	3	45.98'	42.84'

* DRAINAGE INLET 1 IS A DOGHOUSE INLET

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	15" RCP	IV	160.00'	0.0090	41.70'	40.26'
2	15" RCP	IV	128.00'	0.0048	42.31'	41.70'
3	15" RCP	IV	152.00'	0.0035	42.84'	42.31'
4	15" RCP	IV	152.00'	0.0035	43.45'	42.84'



532-6.00-80.05
MICHAEL B AND DARLENE E WHALEY
D 1909 342

532-6.00-80.01
CHURCH OF GOD OF PROPHECY
D 3260 127

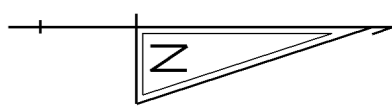
532-6.00-87.01
BRIAN PAUL HILL AND IRMA HILL, WIFE
D 1670 68

MATCH LINE 107+00

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	ADDENDUMS / REVISIONS			TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD	CONTRACT	BRIDGE NO.	X	CONSTRUCTION PLAN	SHEET NO.	
					T201600901				DESIGNED BY: NER	6
					COUNTY	SUSSEX			CHECKED BY: JLC	TOTAL SHTS.
										28

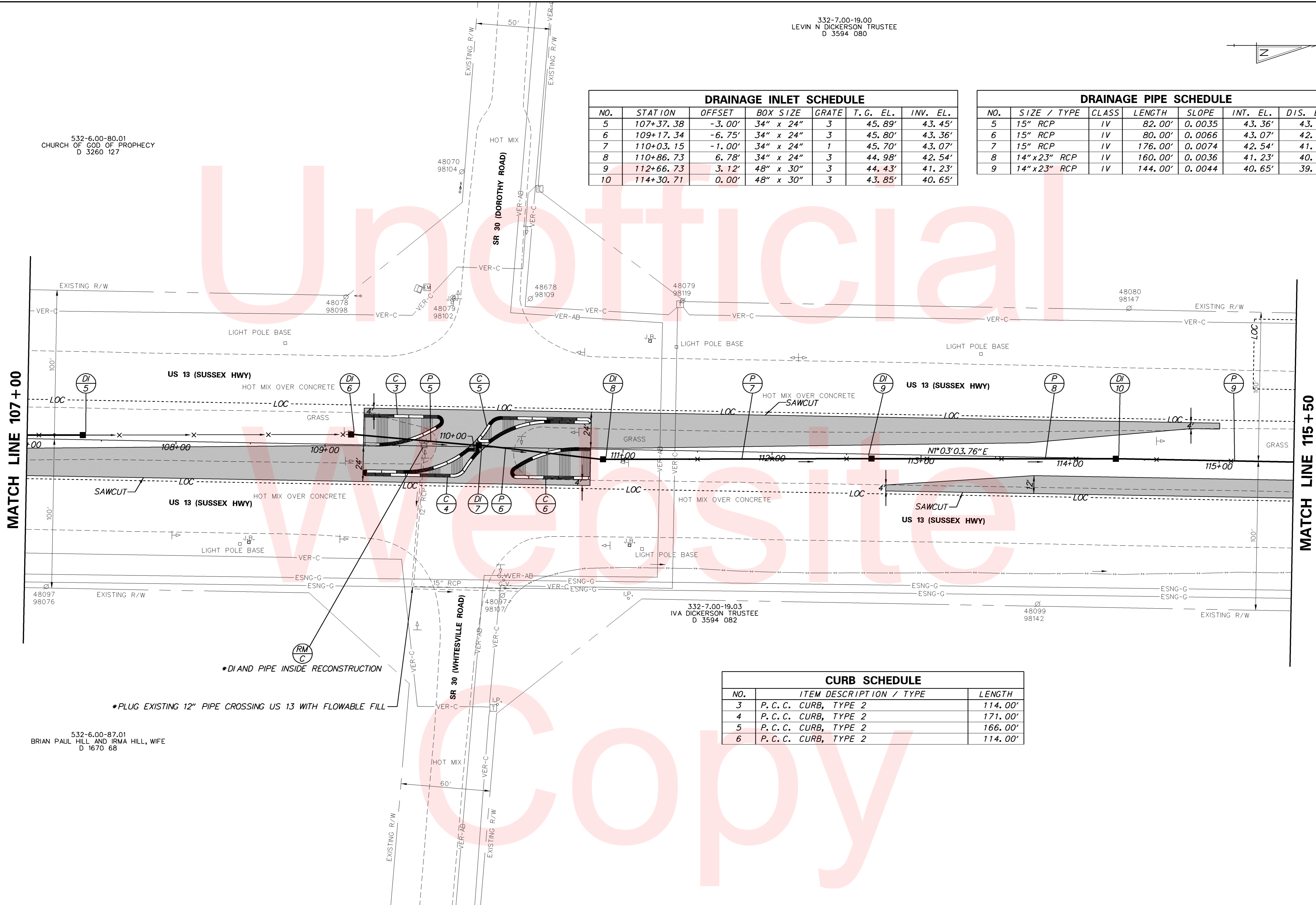
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LEVIN N DICKERSON TRUSTEE
D 3594 080



532-6.00-80.01
CHURCH OF GOD OF PROPHECY
D 3260 127

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
5	107+37.38	-3.00'	34" x 24"	3	45.89'	43.45'
6	109+17.34	-6.75'	34" x 24"	3	45.80'	43.36'
7	110+03.15	-1.00'	34" x 24"	1	45.70'	43.07'
8	110+86.73	6.78'	34" x 24"	3	44.98'	42.54'
9	112+66.73	3.12'	48" x 30"	3	44.43'	41.23'
10	114+30.71	0.00'	48" x 30"	3	43.85'	40.65'

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
5	15" RCP	IV	82.00'	0.0035	43.36'	43.07'
6	15" RCP	IV	80.00'	0.0066	43.07'	42.54'
7	15" RCP	IV	176.00'	0.0074	42.54'	41.23'
8	14" x 23" RCP	IV	160.00'	0.0036	41.23'	40.65'
9	14" x 23" RCP	IV	144.00'	0.0044	40.65'	39.93'



CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
3	P. C. C. CURB, TYPE 2	114.00'
4	P. C. C. CURB, TYPE 2	171.00'
5	P. C. C. CURB, TYPE 2	166.00'
6	P. C. C. CURB, TYPE 2	114.00'

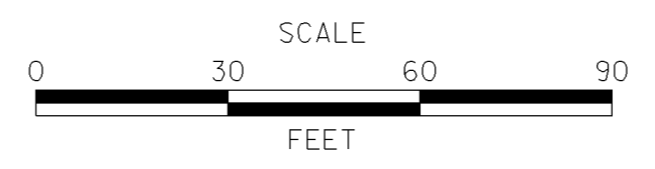
532-6.00-87.01
BRIAN PAUL HILL AND IRMA HILL, WIFE
D 1670 68

*PLUG EXISTING 12" PIPE CROSSING US 13 WITH FLOWABLE FILL

*DI AND PIPE INSIDE RECONSTRUCTION



ADDENDUMS / REVISIONS



TASK 2 - HRRRP SC, US 13 AT SR 30
DOROTHY ROAD/WHITESVILLE ROAD

CONTRACT T201600901	BRIDGE NO. X
COUNTY SUSSEX	DESIGNED BY: NER
	CHECKED BY: JLC

CONSTRUCTION PLAN	SHEET NO. 7
	TOTAL SHTS. 28

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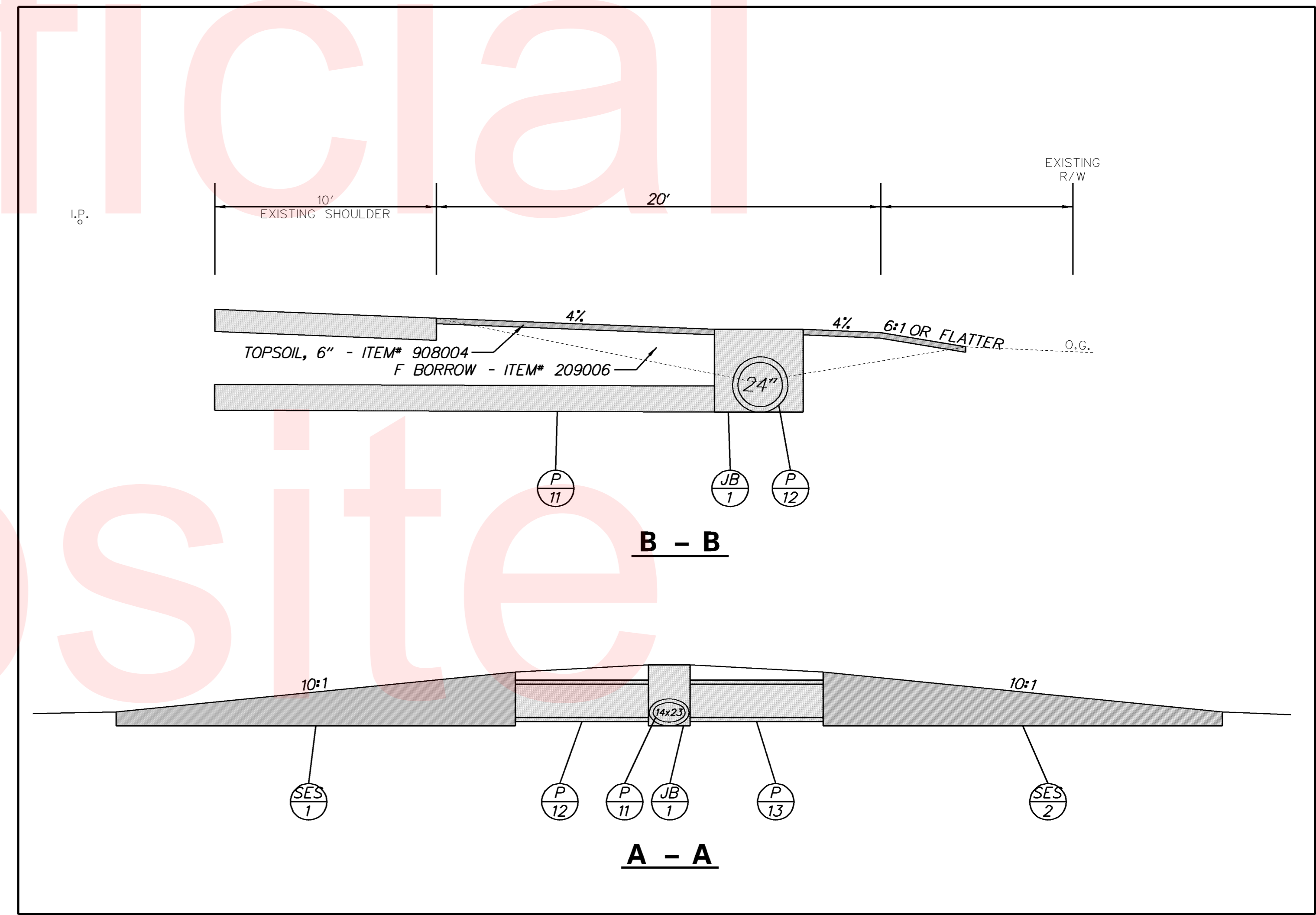
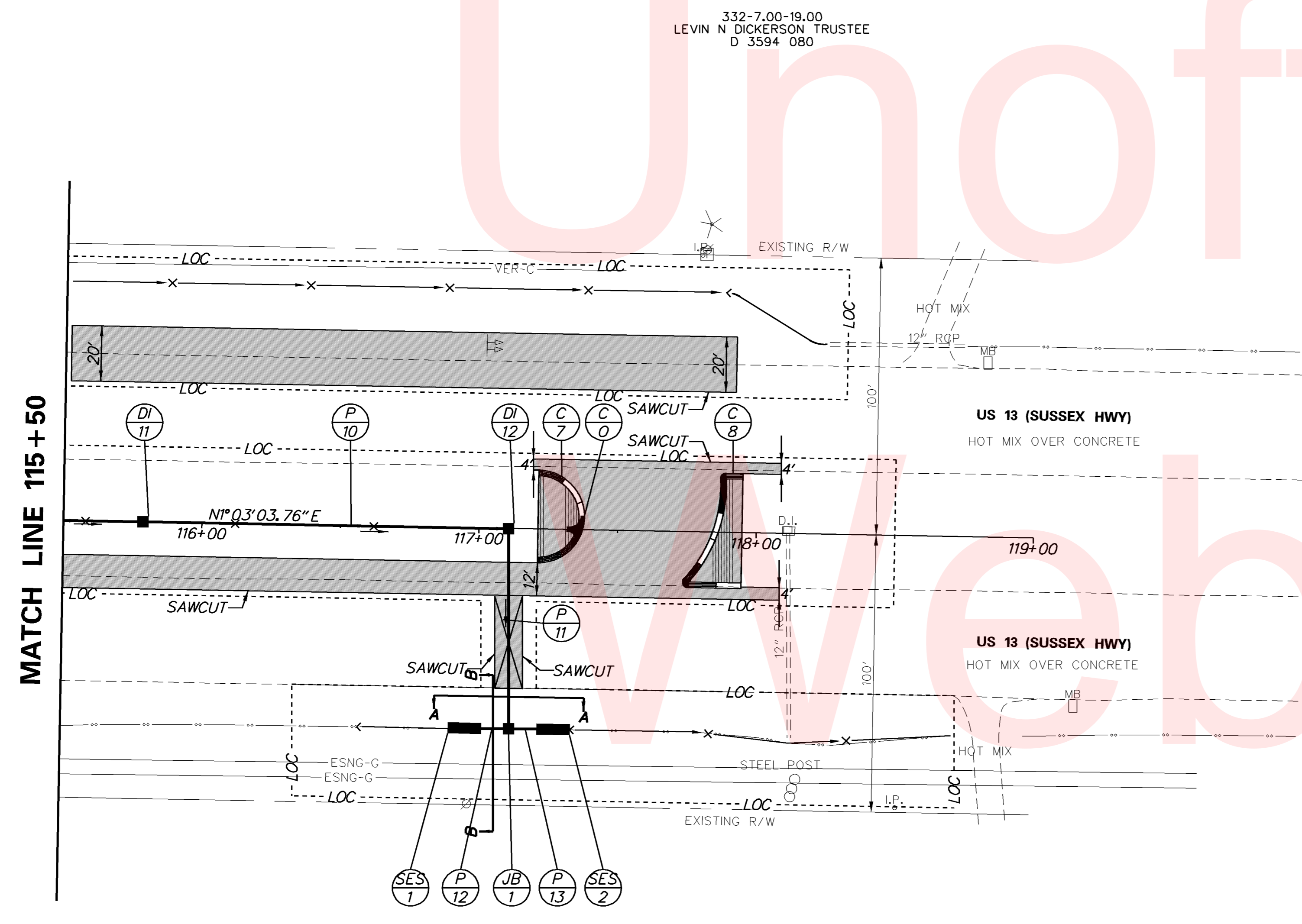
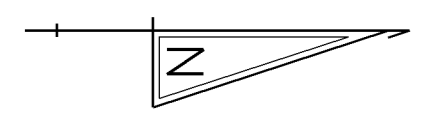
CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
7	P. C. C. CURB, TYPE 2	53.00'
8	P. C. C. CURB, TYPE 2	72.00'

DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T. G. EL.	INV. EL.
11	115+78.70	0.00'	48" x 30"	3	43.13'	39.93'
12	117+10.70	0.00'	48" x 30"	3	42.50'	39.20'

DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
10	14" x 23" RCP	IV	128.00'	0.0057	39.93'	39.20'
11	14" x 23" RCP	IV	68.00'	0.0033	39.20'	38.96'
12	24" RCP	IV	8.00'	0.0088	39.03'	38.96'
13	24" RCP	IV	8.00'	0.0013	38.96'	38.95'

SAFETY END STRUCTURE					
NO.	STATION	OFFSET	TYPE/SIZE	GRATE	INV. EL.
1	116+90.03	70.44'	10:1	YES	39.03'
2	117+22.02	70.35'	10:1	YES	38.95'

JUNCTION BOX SCHEDULE				
NO.	STATION	OFFSET	BOX SIZE	INV. EL.
1	117+10.70	72.41'	48" x 30"	38.96'



332-7.00-19.03
IVA DICKERSON TRUSTEE
D 3594 082

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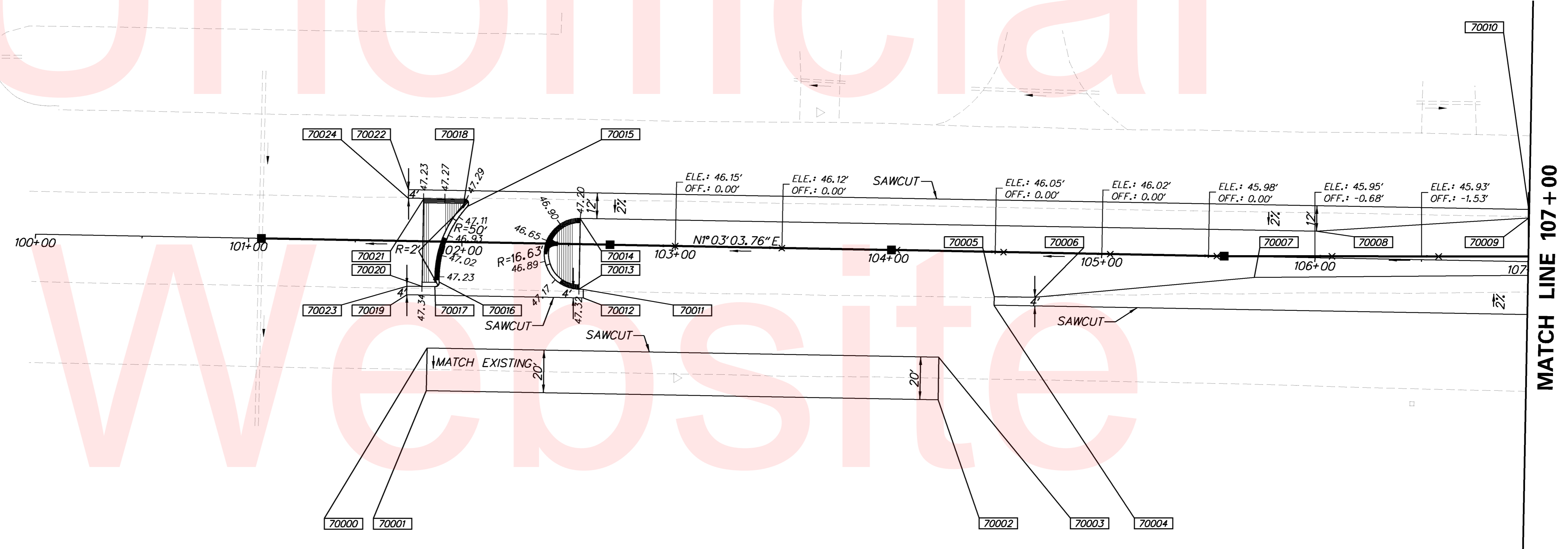
 DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE 0 30 60 90 FEET	TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD	CONTRACT T201600901	BRIDGE NO. X	CONSTRUCTION PLAN	SHEET NO. 8	
				COUNTY SUSSEX	DESIGNED BY: NER		CHECKED BY: JLC	TOTAL SHTS. 28

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
70000	101+84.56	50.00'	181991.9570	615948.5168
70001	101+84.58	70.00'	181991.6042	615968.5137
70002	104+24.58	69.90'	182231.5657	615972.8117
70003	104+24.56	49.90'	182231.9185	615952.8148
70004	104+50.01	25.00'	182257.8228	615928.4046
70005	104+50.00	21.00'	182257.8939	615924.4053
70006	104+69.02	21.00'	182276.9023	615924.7431
70007	105+71.75	9.81'	182379.8200	615915.4365
70008	106+00.54	-12.38'	182409.0104	615893.7751
70009	106+99.81	-20.45'	182508.4145	615887.5276
70010	106+99.81	-24.45'	182508.4856	615883.5283

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
70011	102+57.31	21.13'	182065.2217	615920.9806
70012	102+57.31	25.13'	182065.1506	615924.9800
70013	102+55.31	21.13'	182063.2220	615920.9451
70014	102+55.29	-12.13'	182063.8131	615887.6955
70015	102+02.24	-16.77'	182010.8615	615882.0793
70016	101+89.68	19.06'	181997.6422	615917.6754
70017	101+87.68	21.17'	181995.6078	615919.7429
70018	102+00.75	-20.10'	182009.4267	615878.7235
70019	101+74.54	25.18'	181982.3966	615923.5091
70020	101+81.68	21.18'	181989.6085	615919.6363
70021	101+81.66	-20.08'	181990.3418	615878.3875
70022	101+74.52	-24.08'	181983.2721	615874.2618
70023	101+74.54	21.18'	181982.4677	615919.5097
70024	101+74.52	-20.08'	181983.2010	615878.2612

NOTES:

- OFFSETS SHOWN IN THE COORDINATE LIST WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
- UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO EDGE OF PAVEMENT.
- RADI ARE GIVEN TO THE EDGE OF PAVEMENT.
- UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
- ALL WORK REQUIRED FOR CALCULATING AND STAKING OUT OF GRADES SHALL BE PAID FOR UNDER ITEM 763621 - CONSTRUCTION ENGINEERING.
- PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



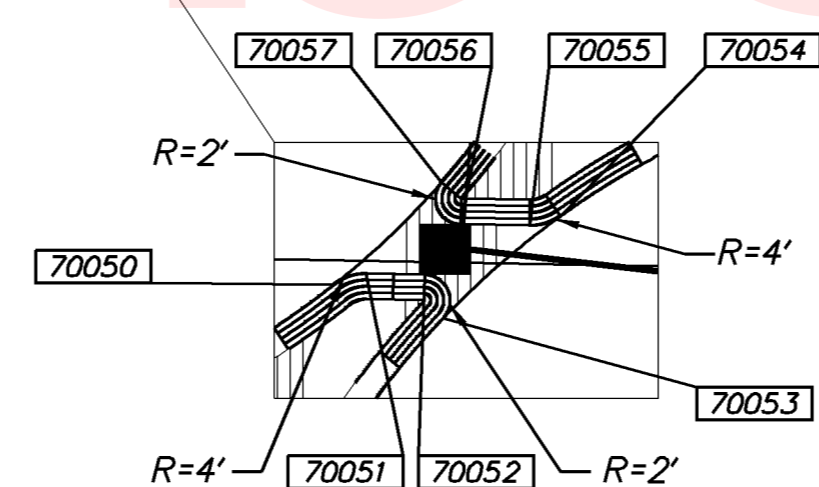
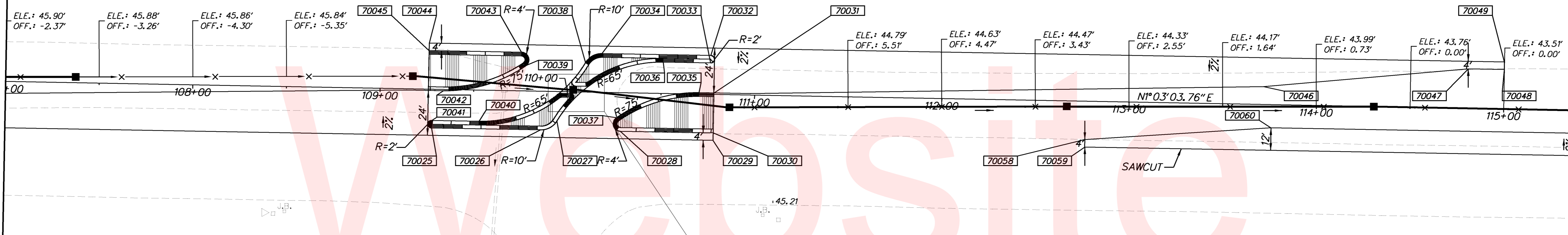
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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE FEET	TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD	CONTRACT T201600901	BRIDGE NO. <div style="text-align: center; font-weight: bold; font-size: 1.2em;">X</div>	GRADES AND GEOMETRICS	SHEET NO. 9	
					DESIGNED BY: NER COUNTY SUSSEX		CHECKED BY: JLC	TOTAL SHTS. 28

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
70025	109+27.86	20.74'	182735.6618	615932.8974
70026	109+86.08	20.71'	182793.8775	615933.9306
70027	109+94.73	15.72'	182802.6149	615929.1024
70028	110+28.82	20.69'	182836.6130	615934.6917
70029	110+78.25	24.66'	182885.9551	615939.5694
70030	110+78.24	20.66'	182886.0257	615935.5685
70031	110+78.24	-0.72'	182886.4184	615914.2000
70032	110+76.21	-20.71'	182884.7559	615894.1675
70033	110+76.22	-16.72'	182884.6854	615898.1654
70034	110+18.05	-20.67'	182826.6047	615893.1416
70035	110+70.27	-0.71'	182878.4503	615914.0579
70036	110+50.93	-16.70'	182859.3995	615897.7193
70037	110+26.48	13.44'	182834.4056	615927.4032
70038	110+09.41	-15.69'	182817.8690	615897.9692
70039	109+77.50	-13.40'	182785.9274	615899.6726
70040	109+53.20	16.73'	182761.0780	615929.3485
70041	109+27.85	16.74'	182735.7329	615928.8980
70042	109+33.72	0.74'	182741.8915	615913.0049
70043	109+75.16	-20.64'	182783.7205	615892.3849
70044	109+25.82	-24.61'	182734.4607	615887.5167
70045	109+25.83	-20.61'	182734.3908	615891.5146
70046	113+71.75	-9.52'	183180.0365	615910.7813
70047	114+80.74	-21.00'	183289.2153	615901.3020
70048	115+00.00	-21.00'	183308.4614	615901.6416
70049	115+00.00	-25.00'	183308.5320	615897.6422

MATCH LINE 107 + 00

MATCH LINE 115 + 50



COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
70050	109+94.48	1.91'	182802.6189	615915.2900
70051	109+97.02	1.00'	182805.1773	615914.4249
70052	110+01.61	1.00'	182809.7672	615914.5091
70053	110+03.08	4.35'	182811.1789	615917.8879
70054	110+12.10	-3.79'	182820.3461	615909.9084
70055	110+09.71	-3.00'	182817.9397	615910.6584
70056	110+04.32	-3.00'	182812.5476	615910.5594
70057	110+02.79	-6.29'	182811.0816	615907.2404
70058	112+76.72	20.55'	183084.4679	615939.0972
70059	112+76.72	24.55'	183084.3968	615943.0966
70060	113+75.99	12.49'	183183.8718	615932.8631

- NOTES:
1. OFFSETS SHOWN IN THE COORDINATE LIST WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
 2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO EDGE OF PAVEMENT.
 3. RADIARE GIVEN TO THE EDGE OF PAVEMENT.
 4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
 5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OUT OF GRADES SHALL BE PAID FOR UNDER ITEM 763621 - CONSTRUCTION ENGINEERING.
 6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

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ADDENDUMS / REVISIONS

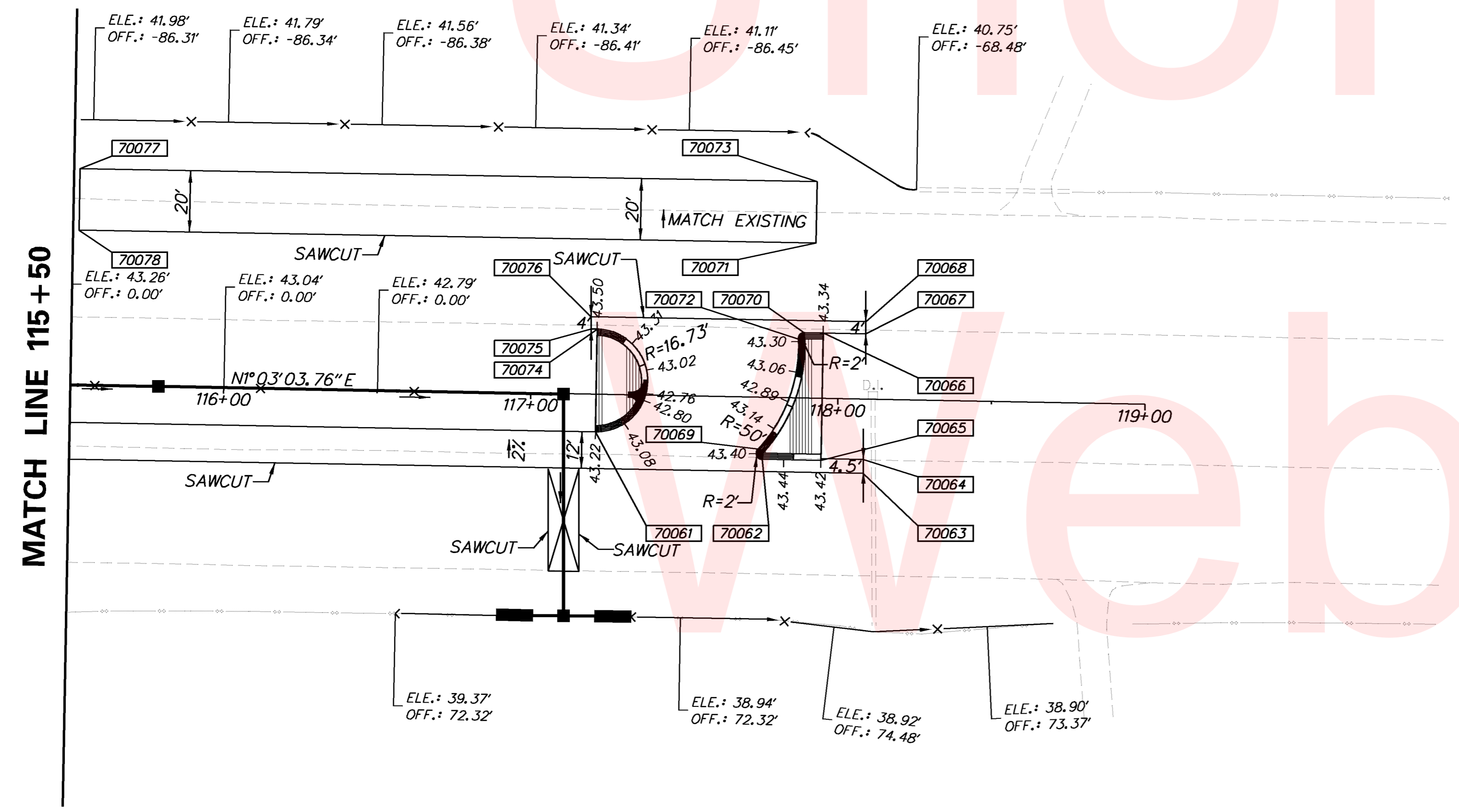


CONTRACT T201600901	BRIDGE NO. X
COUNTY SUSSEX	DESIGNED BY: NER
	CHECKED BY: JLC



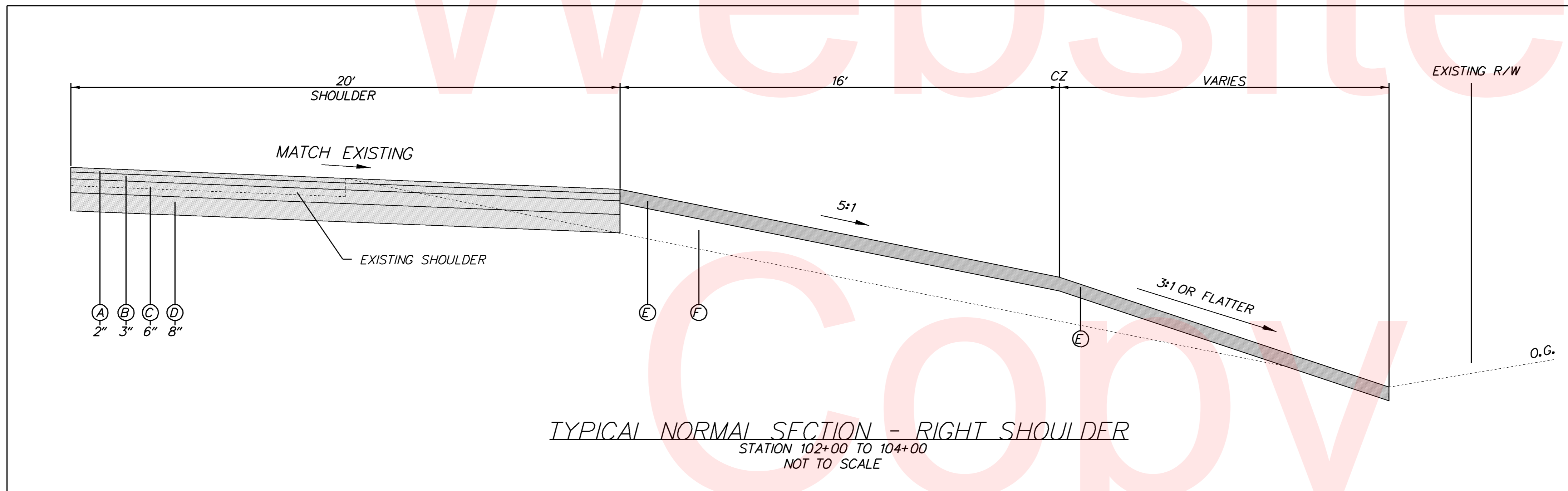
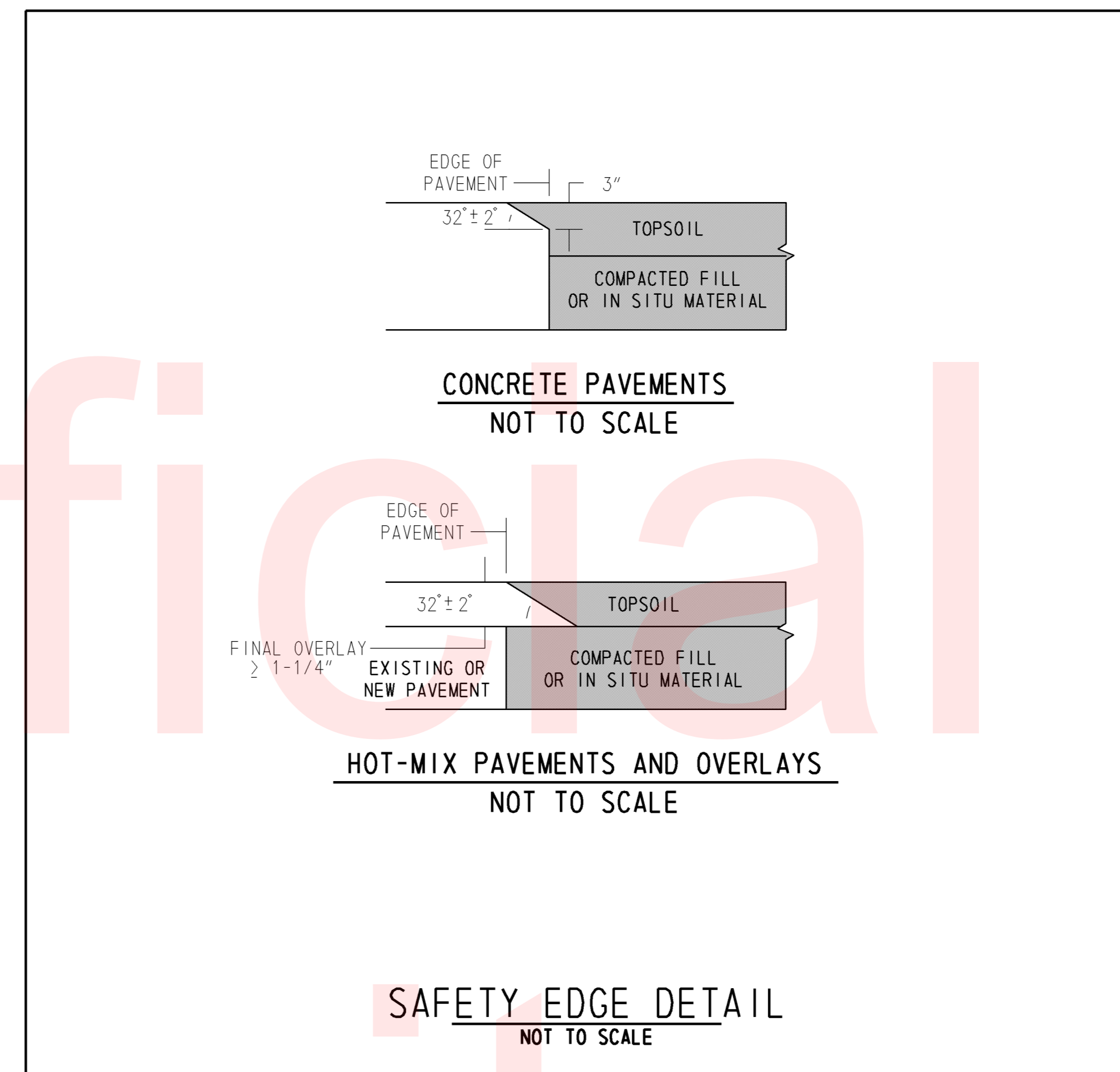
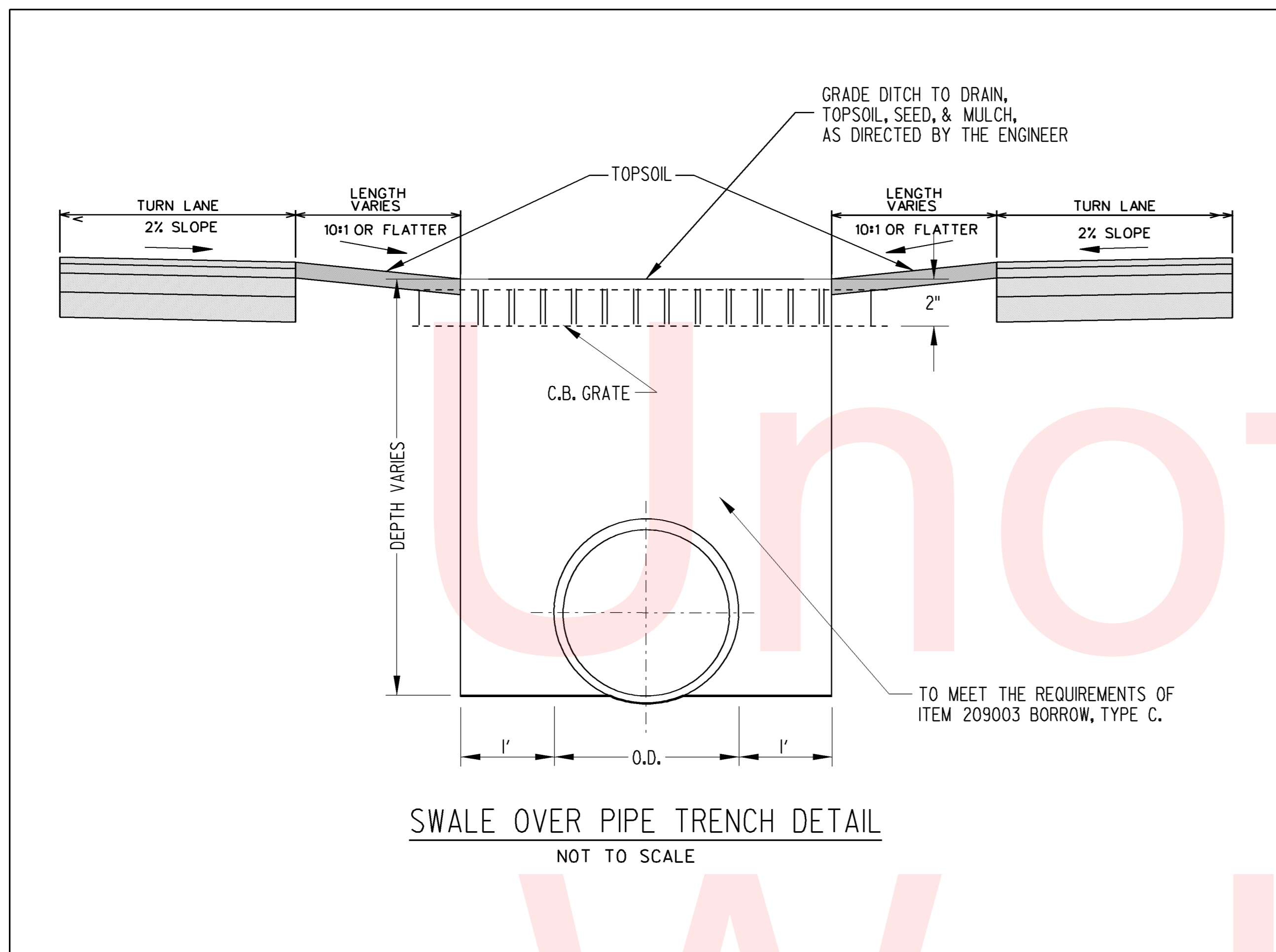
COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
70061	117+21.24	12.29'	183529.0680	615938.9985
70062	117+75.78	20.26'	183583.4574	615947.9665
70063	118+08.68	24.25'	183616.2773	615952.5505
70064	118+08.68	19.75'	183616.3571	615948.0644
70065	117+94.86	20.26'	183602.5275	615948.3052
70066	117+94.83	-21.23'	183603.2645	615906.8456
70067	118+08.66	-21.23'	183617.0854	615907.0895
70068	118+08.65	-25.23'	183617.1565	615903.0901
70069	117+74.29	16.93'	183582.0227	615944.6109
70070	117+88.68	-21.21'	183597.1120	615906.7371
70071	117+91.97	-50.48'	183600.9353	615877.5396
70072	117+86.84	-19.10'	183595.2316	615908.8154
70073	117+91.95	-70.48'	183601.2881	615857.5427
70074	117+21.22	-21.16'	183529.6626	615905.5464
70075	117+19.22	-21.16'	183527.6629	615905.5111
70076	117+19.22	-25.16'	183527.7340	615901.5118
70077	115+51.95	-70.31'	183361.3255	615853.3090
70078	115+51.97	-50.31'	183360.9727	615873.3059

- NOTES:**
1. OFFSETS SHOWN IN THE COORDINATE LIST WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
 2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO EDGE OF PAVEMENT.
 3. RADIARE GIVEN TO THE EDGE OF PAVEMENT.
 4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
 5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OUT OF GRADES SHALL BE PAID FOR UNDER ITEM 763621 - CONSTRUCTION ENGINEERING.
 6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.



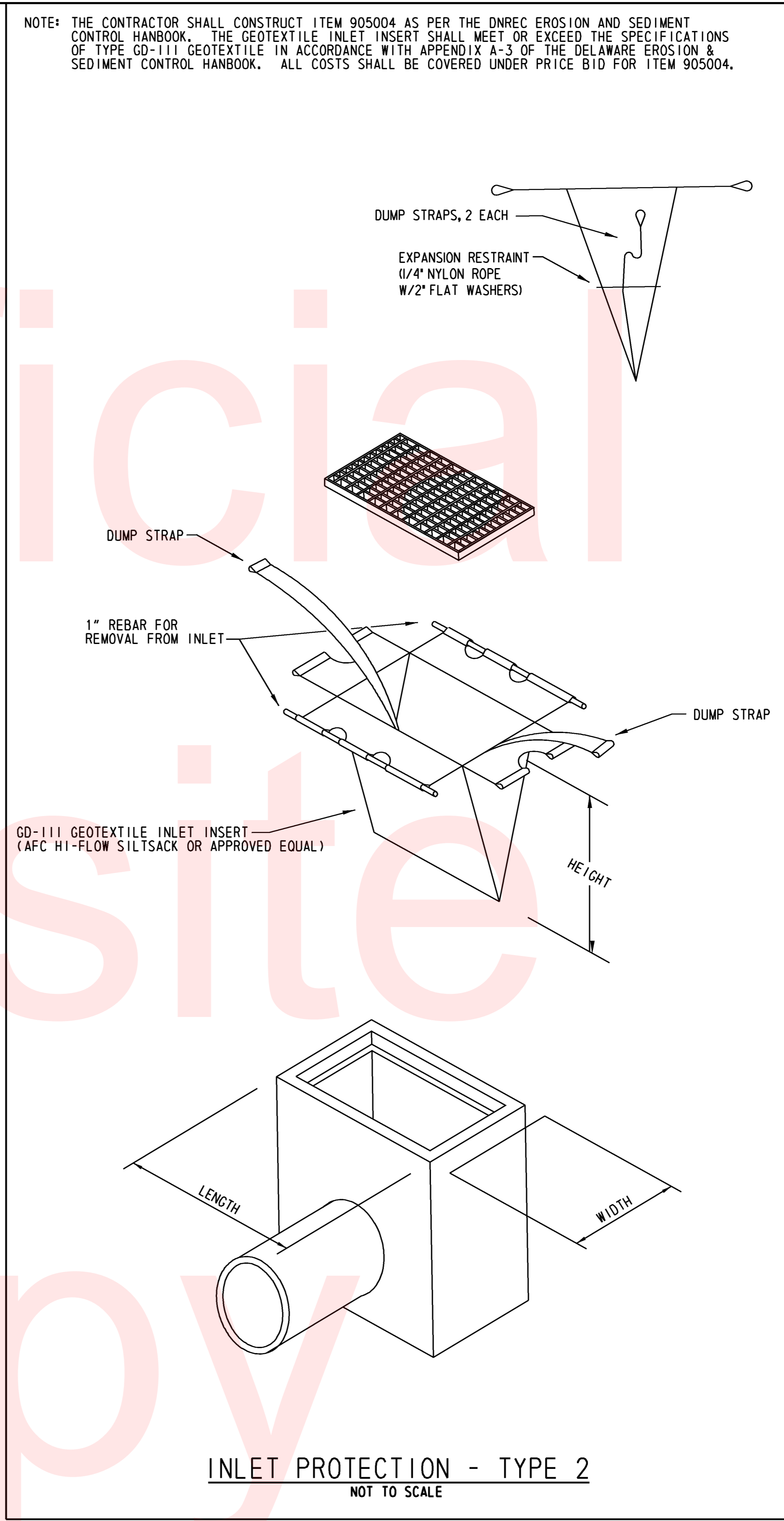
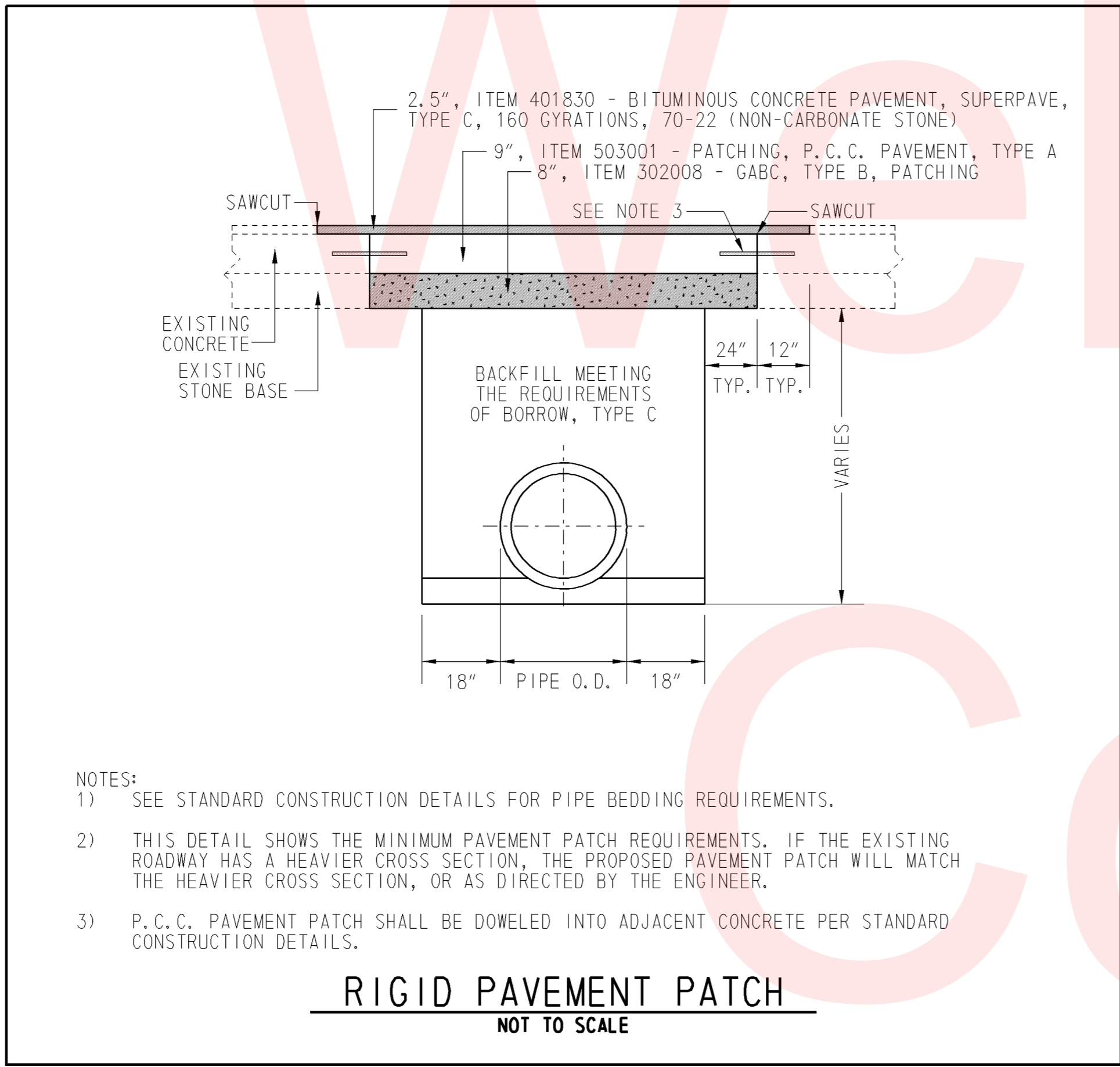
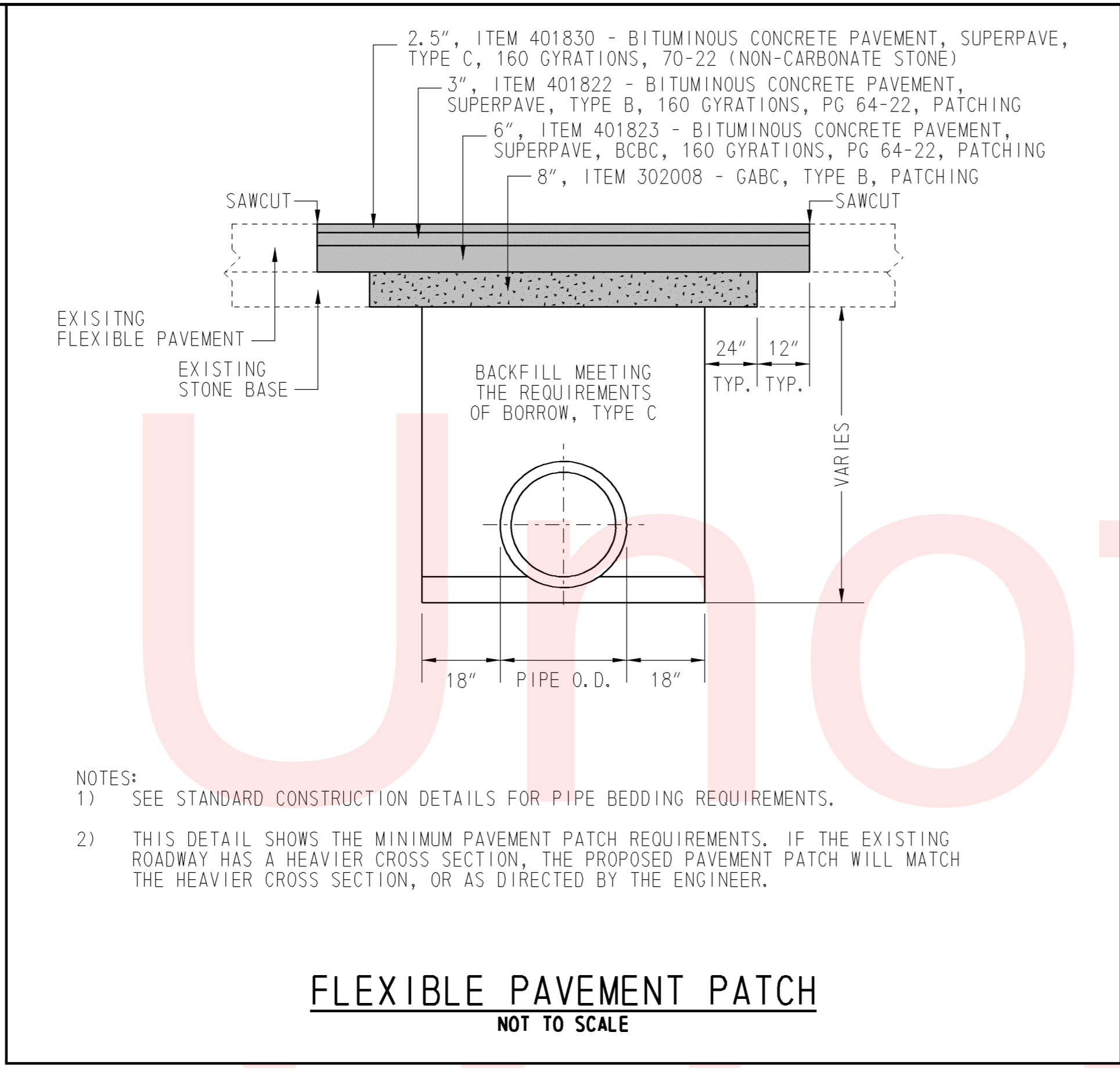
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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE FEET	TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD	CONTRACT T201600901 COUNTY SUSSEX	BRIDGE NO. X DESIGNED BY: NER CHECKED BY: JLC	GRADES AND GEOMETRICS	SHEET NO. 12 TOTAL SHTS. 28



LEGEND	
(A)	ITEM 401830 - BITUMINOUS CONCRETE PAVEMENT, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONATE STONE)
(B)	ITEM 401810 - BITUMINOUS CONCRETE PAVEMENT, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 64-22
(C)	ITEM 401819 - BITUMINOUS CONCRETE PAVEMENT, SUPERPAVE, BCBC, 160 GYRATIONS, PG 64-22
(D)	ITEM 302007 - GABC, TYPE B
(E)	ITEM 908004 - TOPSOIL, 6" DEPTH ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND
(F)	ITEM 209006 - BORROW, TYPE F

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ADDENDUMS / REVISIONS	

NOT TO SCALE

TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD

CONTRACT T201600901	BRIDGE NO. 	NA
COUNTY SUSSEX	DESIGNED BY: NER	CHECKED BY: JLC

CONSTRUCTION DETAILS	SHEET NO. 14
	TOTAL SHTS. 28

GENERAL MOT NOTES

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES SHALL CONFORM TO TYPICAL APPLICATION 3A, 10, 33 AND 34 OF THE DELAWARE MUTCD.
2. GRADING AND MAINTAINING HOT MIX TRM THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO PAYMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.
3. THE CONTRACTOR SHALL SUPPLY PORTABLE CHANGEABLE MESSAGE BOARDS (PCMS) UNDER ITEM 743004. ONE PCMS WILL BE PLACED ALONG US13 NORTHBOUND AND SOUTHBOUND DIRECTIONS PRIOR TO THE WORK AREA AT SR30 EASTBOUND AND WESTBOUND DIRECTIONS. PLACEMENT SHALL BE COORDINATED WITH THE DISTRICT SAFETY OFFICER. THE PCMS'S SHOULD BE PLACED A MINIMUM OF TEN (10) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION TO REMIND ROAD USERS OF PENDING LANE CLOSURES. DISPLAY MESSAGE C FOR 10 DAYS PRIOR TO WORK THEN MESSAGE D FOR 5 DAYS AFTER. THE PCM SHOULD HAVE THE FOLLOWING MESSAGE:

ROAD
WORK

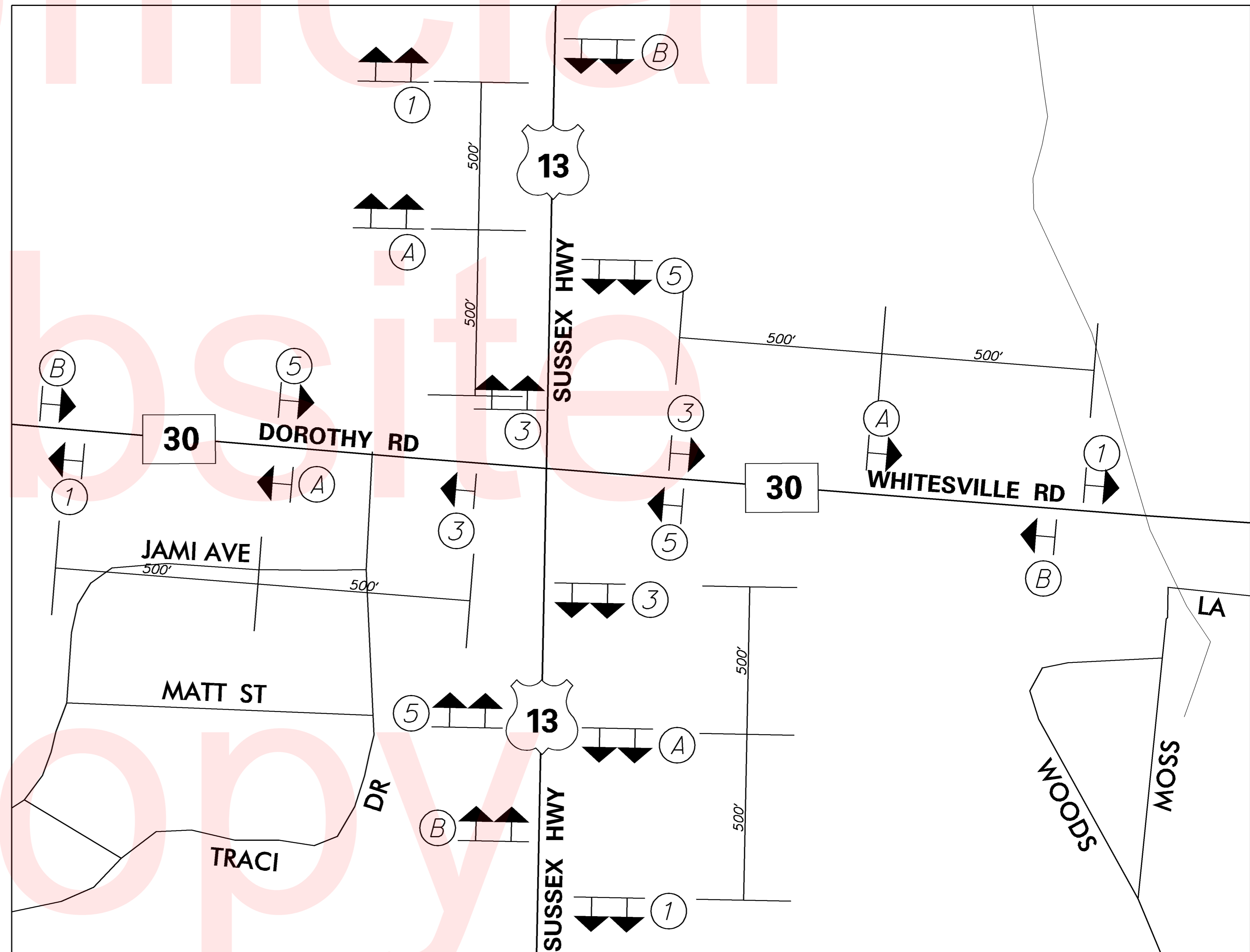
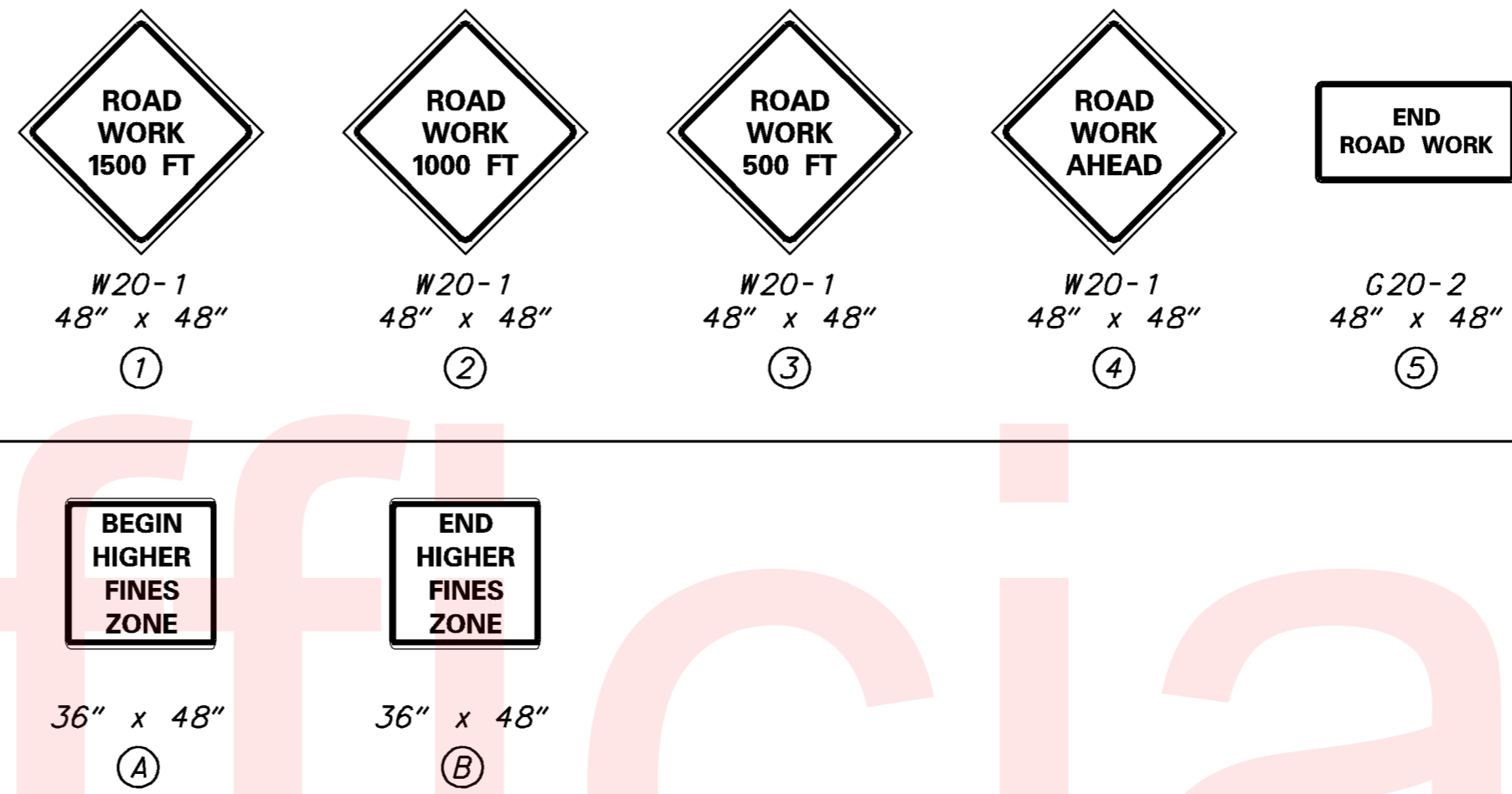
STARTING
XXXXXX

NEW
TRAFFIC
PATTERN

STARTING
XXXXXX

4. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT AS DIRECTED BY THE ENGINEER. ALL REPAIRS ARE AT THE CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER.
5. THE ROADWAY AND SHOULDER WORK SHALL BE PERFORMED IN A MANNER SUCH THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS MAINTAINED THROUGHOUT CONSTRUCTION. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN THIS DRAINAGE SHALL BE INCIDENTAL TO ITEM 743000 - MAINTAINCE OF TRAFFIC.
6. THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE MOBILITY PROCEDURES AND GUIDELINES. A TYPE B TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING THE DEPARTMENT'S SAFETY PROGRAMS MANAGER AT (302)659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IF CHANGES TO THE TIME RESTRICTIONS OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.
7. BASED ON TRAFFIC VOLUMES ALONG US13 IN THIS AREA, LANE CLOSURES CAN OCCUR ANYTIME DURING THE DAY.
8. THE CONTRACTOR SHOULD MOUNT A "NEW TRAFFIC PATTERN" PLAQUE (W-23-2P-DE) ABOVE THE NEW INTERSECTION WARNING SIGN IN THE NORTHBOUND AND SOUTHBOUND DIRECTIONS ON US13 AND IN THE WESTBOUND AND EASTBOUND DIRECTION OF SR 30. THE SIGN SHOULD BE MOUNTED FOR NINETY (90) DAYS AFTER THE NEW TRAFFIC PATTERN IS IN PLACE. THE CONTRACTOR SHALL COORDINATE WITH DELDOT'S SIGN SHOP FOR FABRICATION OF THE SIGN. IN ADDITION, THE CONTRACTOR SHOULD ADVISE DELDOT'S SIGN SHOP WHEN THE NINETY (90) DAY EXPIRATION IS ANTEDATED FOR DELDOT TO SCHEDULE THE REMOVE OF THE SIGN.
9. PIPE CROSSING AT STA. 117+00:
AT THE COMPLETION OF EACH WORK DAY, THE PIPE TRENCH SHALL BE STEEL PLATED OR BACK FILLED IN ACCORDANCE TO ITEM 743000 AND THE DELAWARE MUTCD.

WARNING SIGN LEGEND

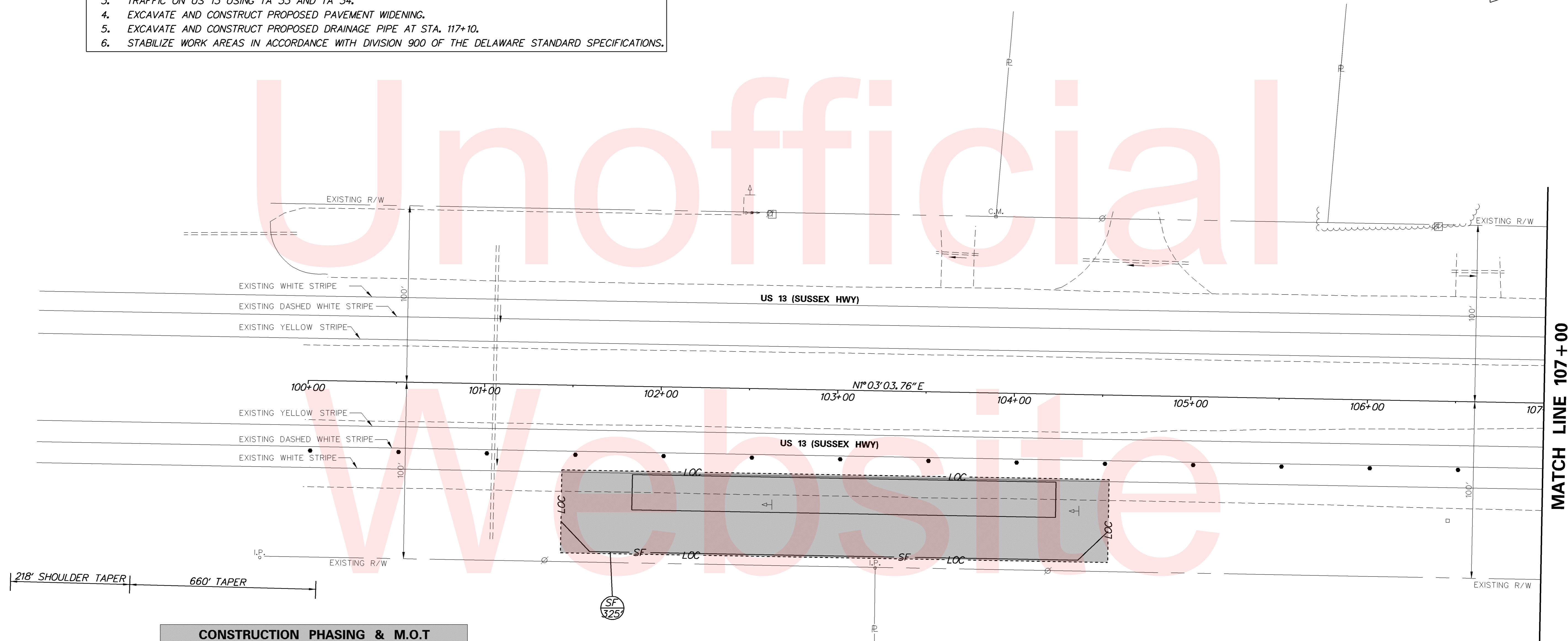
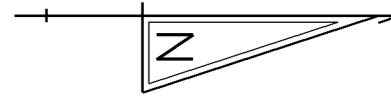


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	DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	NOT TO SCALE	TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD	CONTRACT T201600901	BRIDGE NO. X	CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN	SHEET NO. 15
						COUNTY SUSSEX		DESIGNED BY: NER

SEQUENCE OF CONSTRUCTION - PHASE 1

1. PLACE ALL ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. TRAFFIC ON US 13 USING TA 33 AND TA 34.
4. EXCAVATE AND CONSTRUCT PROPOSED PAVEMENT WIDENING.
5. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE PIPE AT STA. 117+10.
6. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.



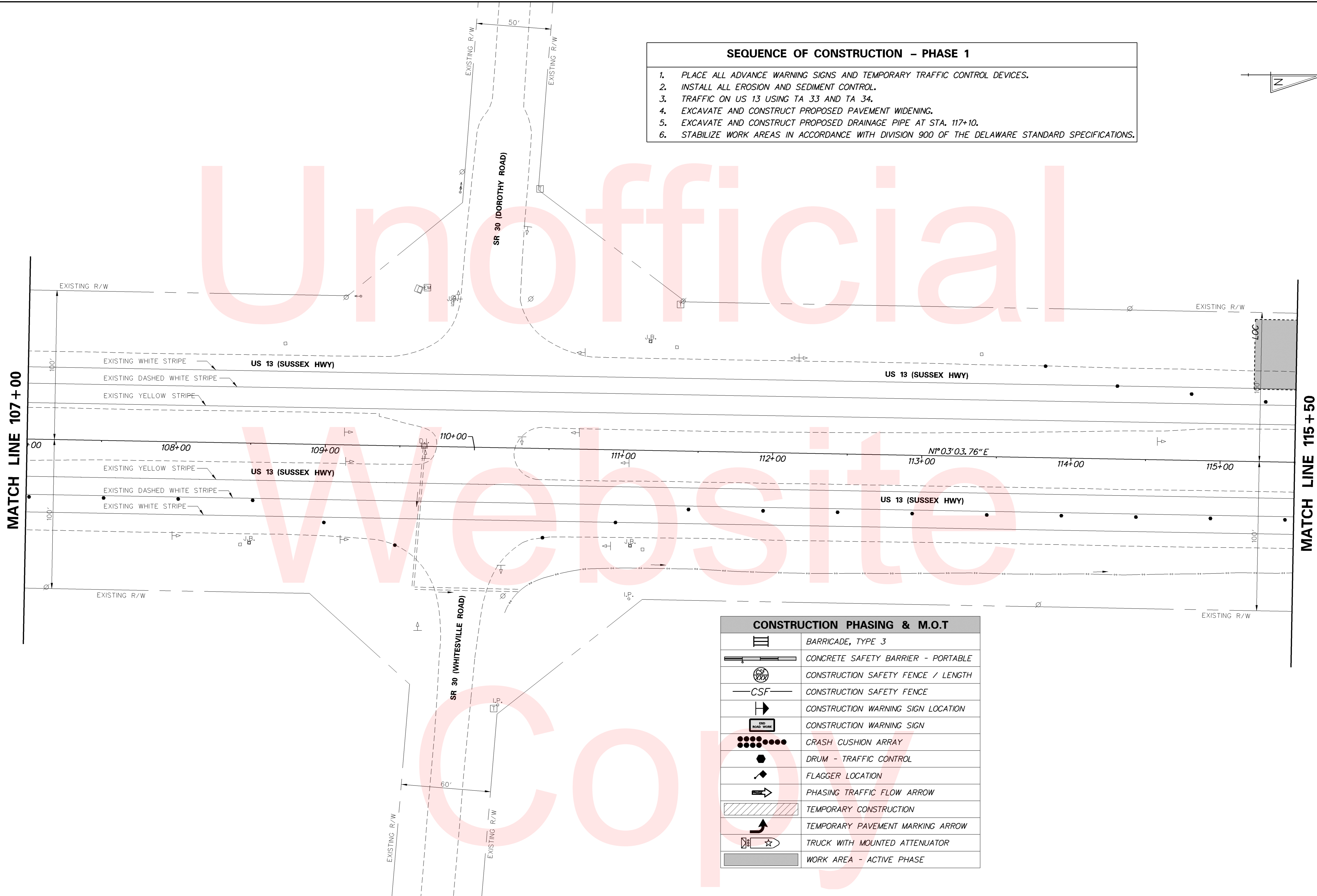
CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	<p>SCALE</p> <p>0 30 60 90 FEET</p>	<p>TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD</p>	<p>CONTRACT T201600901</p>	<p>BRIDGE NO. X</p>	<p>CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1</p>	<p>SHEET NO. 16</p>	
					<p>COUNTY SUSSEX</p>		<p>DESIGNED BY: NER</p>	<p>TOTAL SHTS. 28</p>
							<p>CHECKED BY: JLC</p>	

SEQUENCE OF CONSTRUCTION - PHASE 1

1. PLACE ALL ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. TRAFFIC ON US 13 USING TA 33 AND TA 34.
4. EXCAVATE AND CONSTRUCT PROPOSED PAVEMENT WIDENING.
5. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE PIPE AT STA. 117+10.
6. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.



CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

ADDENDUMS / REVISIONS



TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD

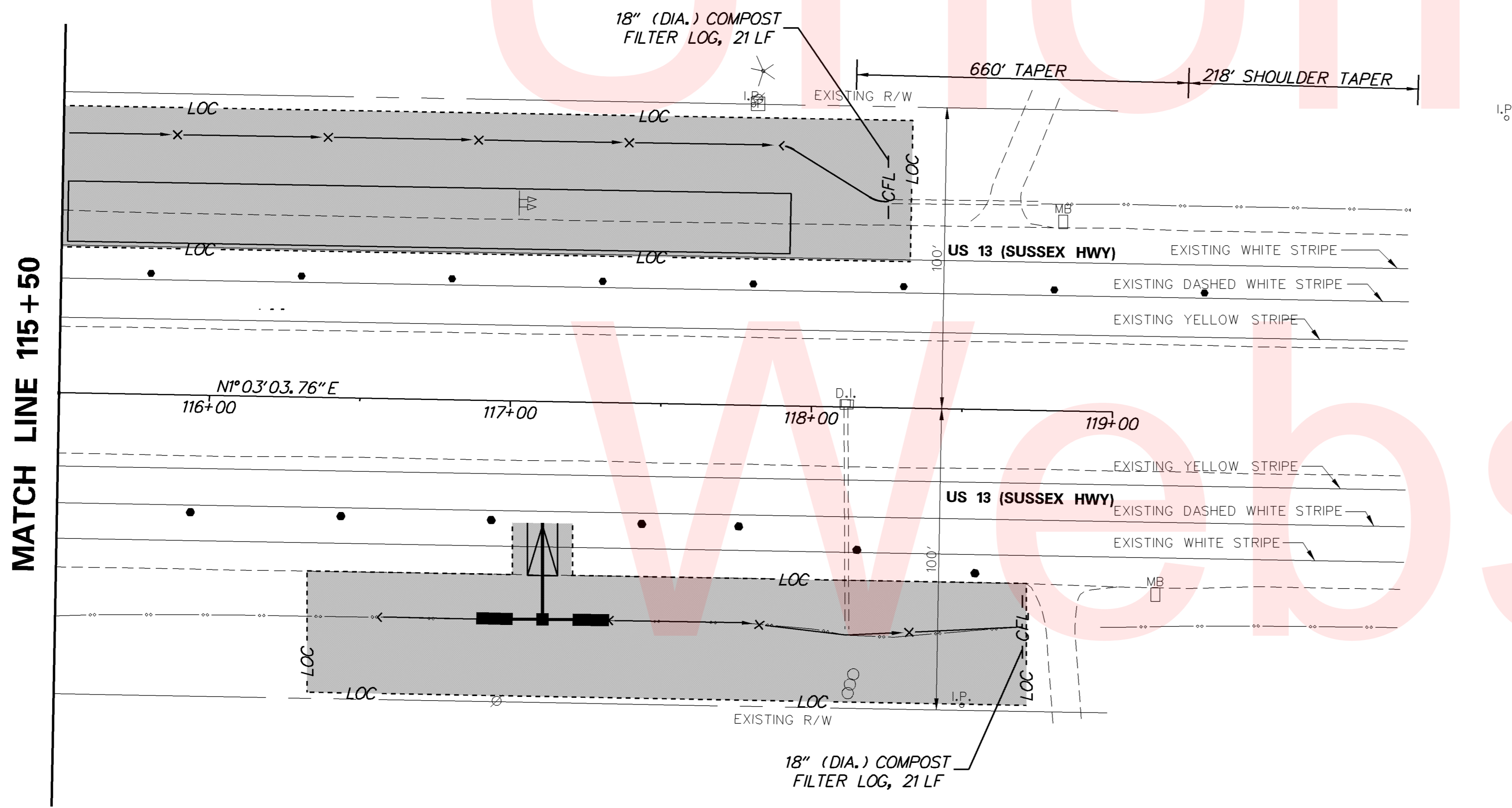
CONTRACT	BRIDGE NO.	X
T201600901	DESIGNED BY:	NER
COUNTY	CHECKED BY:	JLC
SUSSEX		

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1

SHEET NO.	17
TOTAL SHTS.	28

SEQUENCE OF CONSTRUCTION - PHASE 1

1. PLACE ALL ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. TRAFFIC ON US 13 USING TA 33 AND TA 34.
4. EXCAVATE AND CONSTRUCT PROPOSED PAVEMENT WIDENING.
5. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE PIPE AT STA. 117+10.
6. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.

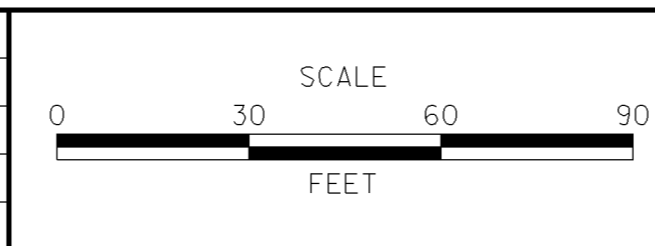


MATCH LINE 115+50

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

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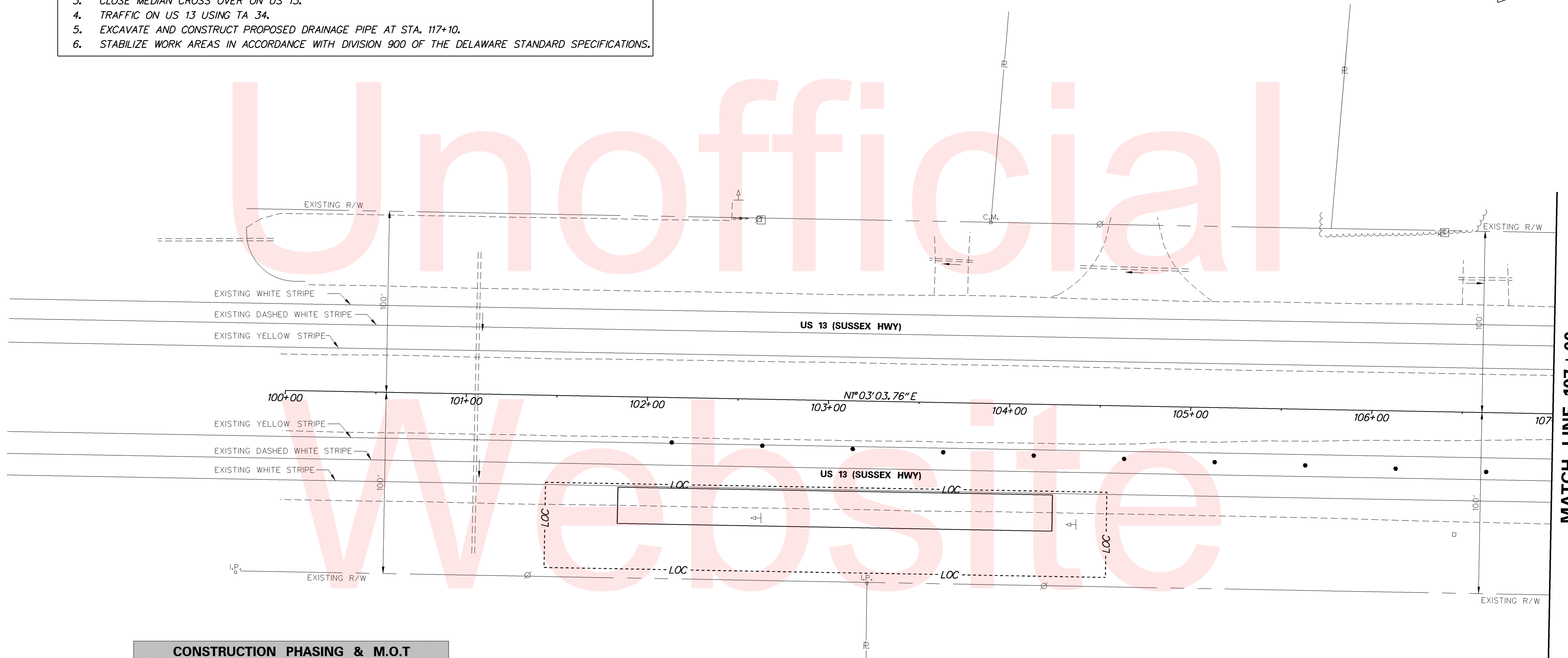
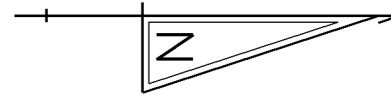
ADDENDUMS / REVISIONS



CONTRACT	BRIDGE NO.	X
T201600901	DESIGNED BY:	NER
COUNTY	CHECKED BY:	JLC
SUSSEX		

SEQUENCE OF CONSTRUCTION - PHASE 2

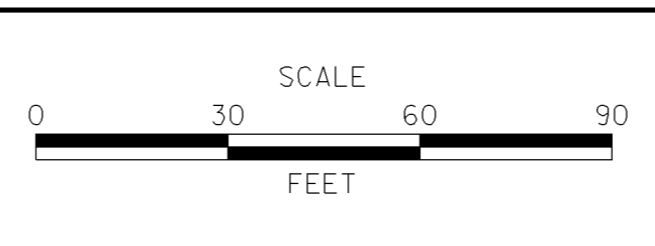
1. PLACE ALL ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. CLOSE MEDIAN CROSS OVER ON US 13.
4. TRAFFIC ON US 13 USING TA 34.
5. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE PIPE AT STA. 117+10.
6. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.



CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

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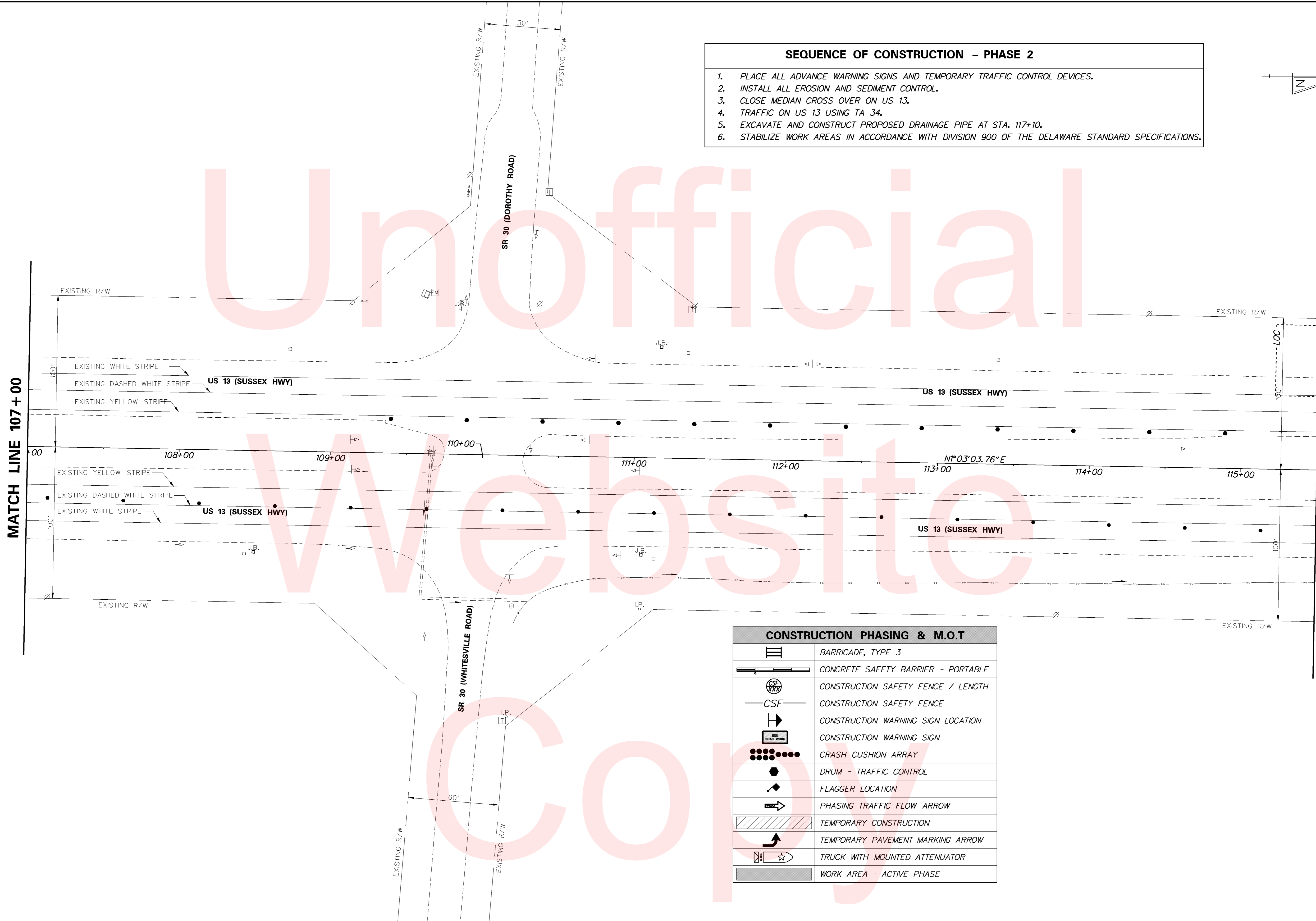
ADDENDUMS / REVISIONS



CONTRACT T201600901	BRIDGE NO. X
COUNTY SUSSEX	DESIGNED BY: NER
	CHECKED BY: JLC

SEQUENCE OF CONSTRUCTION - PHASE 2

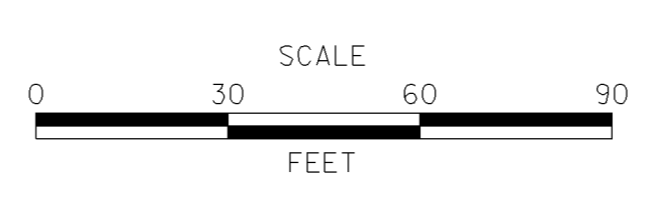
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2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. CLOSE MEDIAN CROSS OVER ON US 13.
4. TRAFFIC ON US 13 USING TA 34.
5. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE PIPE AT STA. 117+10.
6. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.



CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

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ADDENDUMS / REVISIONS



CONTRACT	BRIDGE NO.	X
T201600901	DESIGNED BY:	NER
COUNTY	CHECKED BY:	JLC
SUSSEX		

SEQUENCE OF CONSTRUCTION - PHASE 2

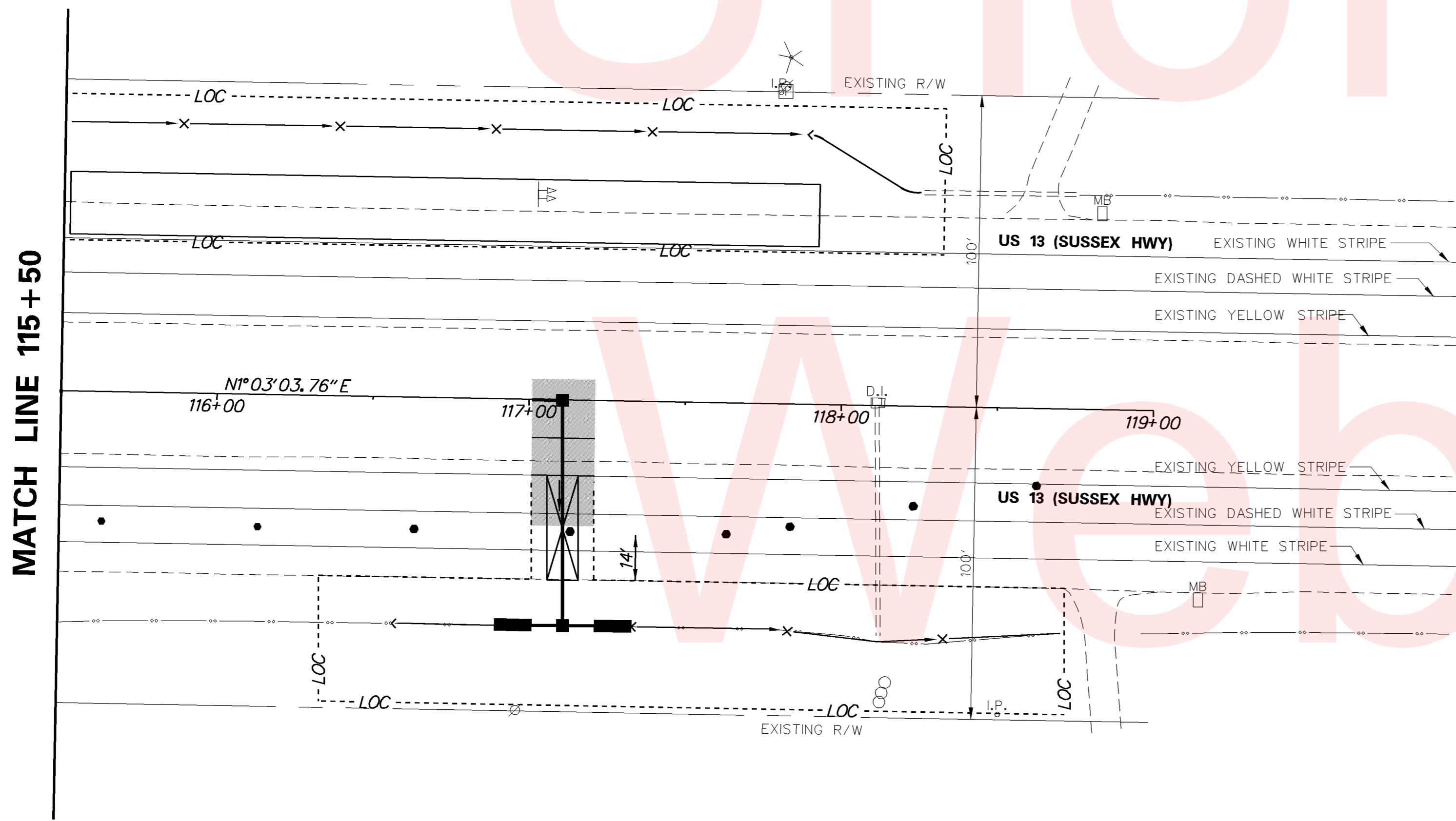
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2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. CLOSE MEDIAN CROSS OVER ON US 13.
4. TRAFFIC ON US 13 USING TA 34.
5. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE PIPE AT STA. 117+10.
6. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.



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Website

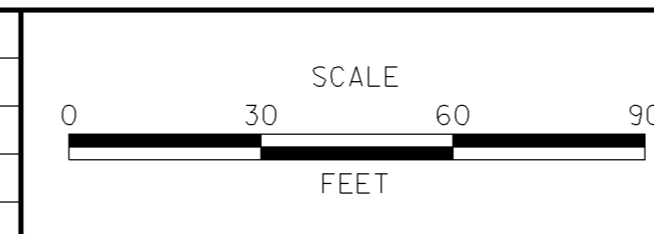
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CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

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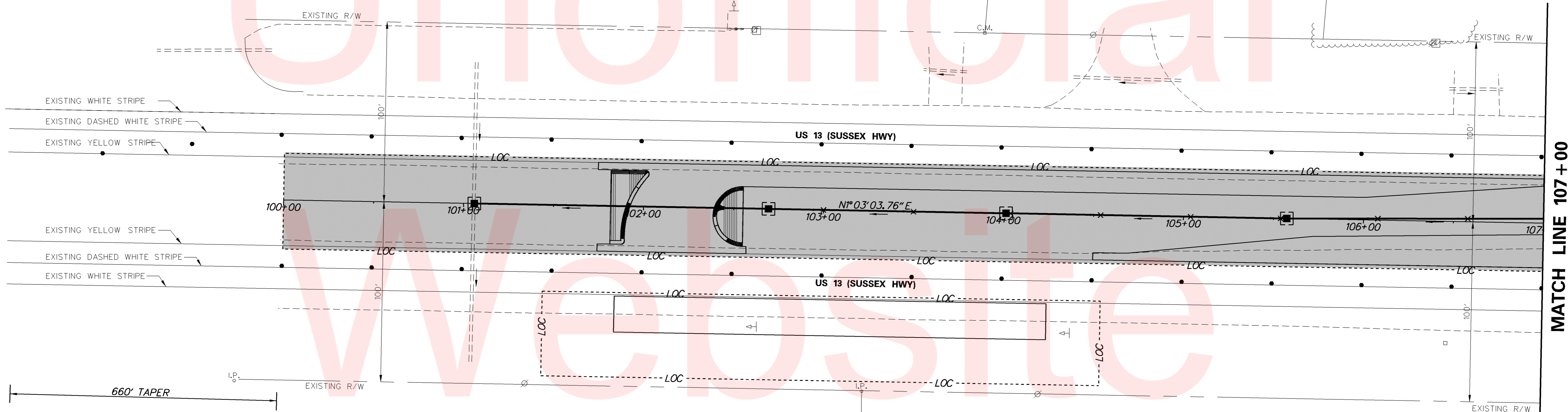
ADDENDUMS / REVISIONS



CONTRACT	BRIDGE NO.	X
T201600901	DESIGNED BY:	NER
COUNTY	CHECKED BY:	JLC
SUSSEX		

SEQUENCE OF CONSTRUCTION - PHASE 3

1. PLACE ALL ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. TRAFFIC ON US 13 USING TA 33.
4. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE SYSTEM.
5. EXCAVATE AND CONSTRUCT PROPOSED ROAD BOX.
6. INSTALL PERMANENT SIGNING AND STRIPING, OPEN TO TRAFFIC.
7. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.

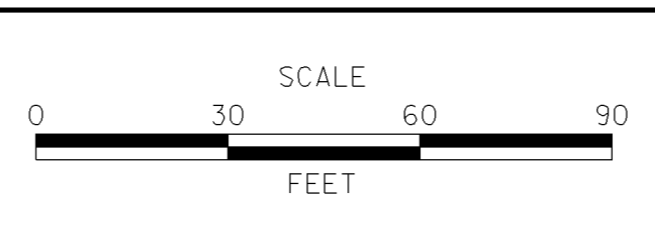


MATCH LINE 107+00

CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

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ADDENDUMS / REVISIONS

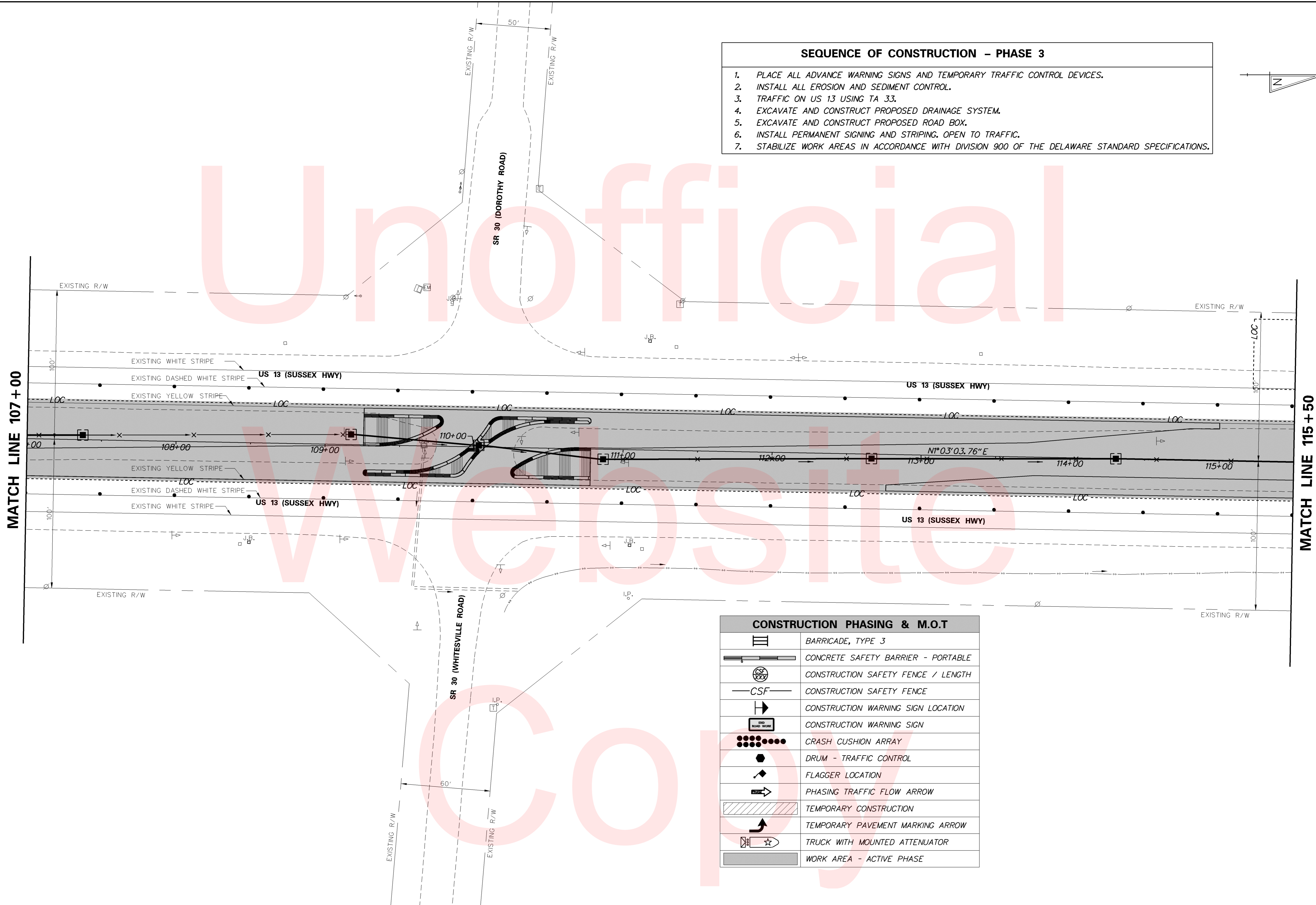
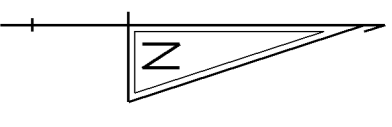


CONTRACT	BRIDGE NO.	X
T201600901	DESIGNED BY:	NER
COUNTY	CHECKED BY:	JLC
SUSSEX		

SHEET NO.	22
TOTAL SHTS.	28

SEQUENCE OF CONSTRUCTION - PHASE 3

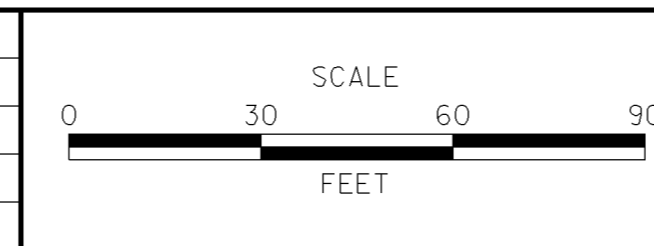
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2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. TRAFFIC ON US 13 USING TA 33.
4. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE SYSTEM.
5. EXCAVATE AND CONSTRUCT PROPOSED ROAD BOX.
6. INSTALL PERMANENT SIGNING AND STRIPING, OPEN TO TRAFFIC.
7. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.



CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

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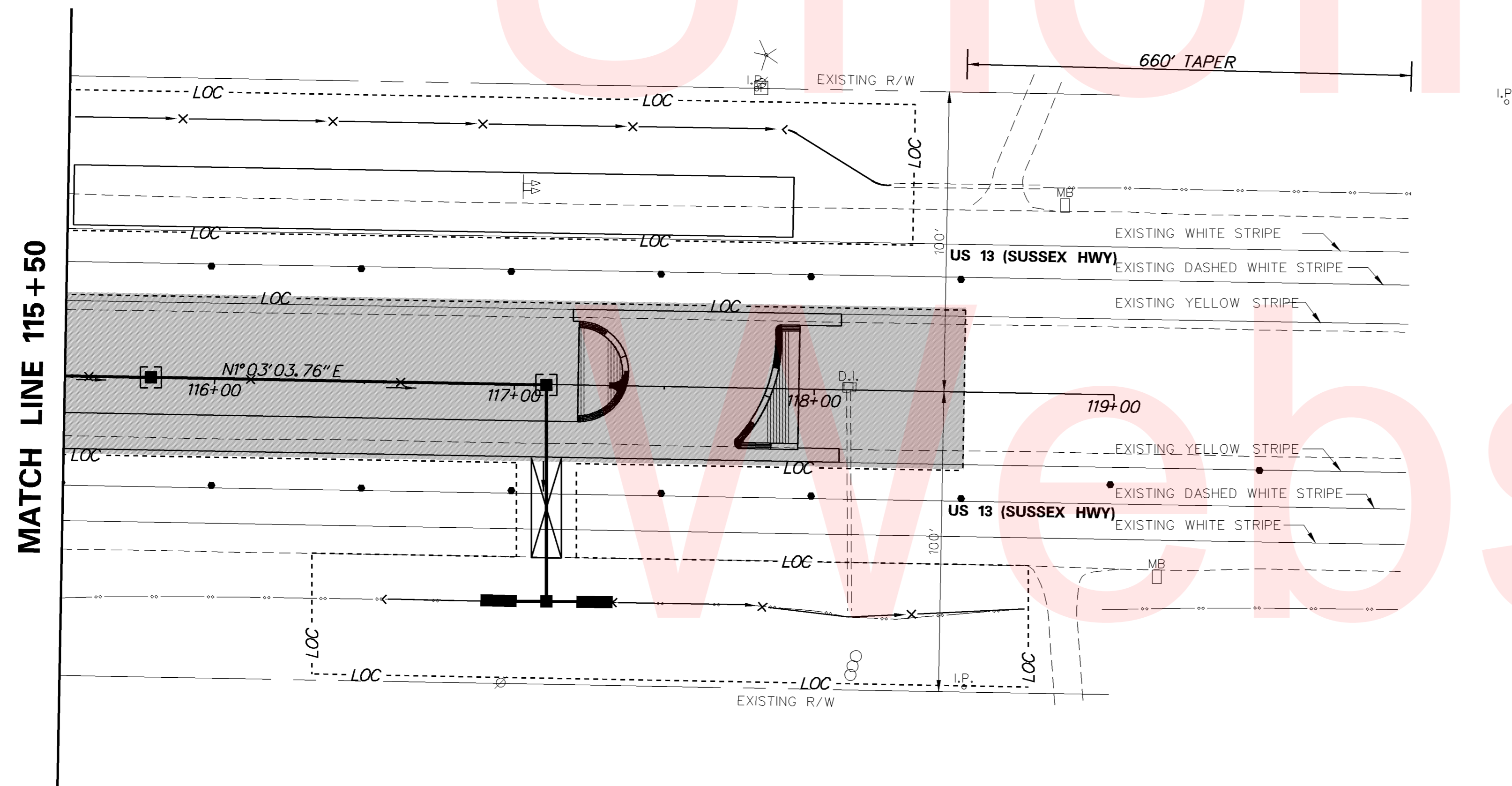
ADDENDUMS / REVISIONS



CONTRACT	T201600901	BRIDGE NO.	X
COUNTY	SUSSEX	DESIGNED BY:	NER
		CHECKED BY:	JLC

SEQUENCE OF CONSTRUCTION - PHASE 3

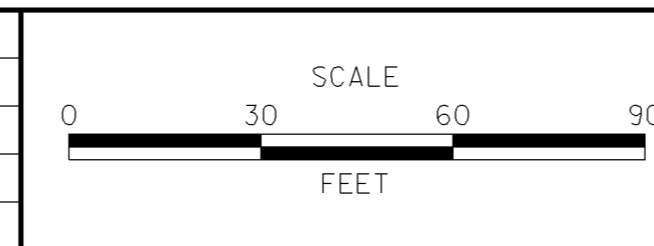
1. PLACE ALL ADVANCE WARNING SIGNS AND TEMPORARY TRAFFIC CONTROL DEVICES.
2. INSTALL ALL EROSION AND SEDIMENT CONTROL.
3. TRAFFIC ON US 13 USING TA 33.
4. EXCAVATE AND CONSTRUCT PROPOSED DRAINAGE SYSTEM.
5. EXCAVATE AND CONSTRUCT PROPOSED ROAD BOX.
6. INSTALL PERMANENT SIGNING AND STRIPING. OPEN TO TRAFFIC.
7. STABILIZE WORK AREAS IN ACCORDANCE WITH DIVISION 900 OF THE DELAWARE STANDARD SPECIFICATIONS.



CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE
	WORK AREA - PREVIOUS PHASES

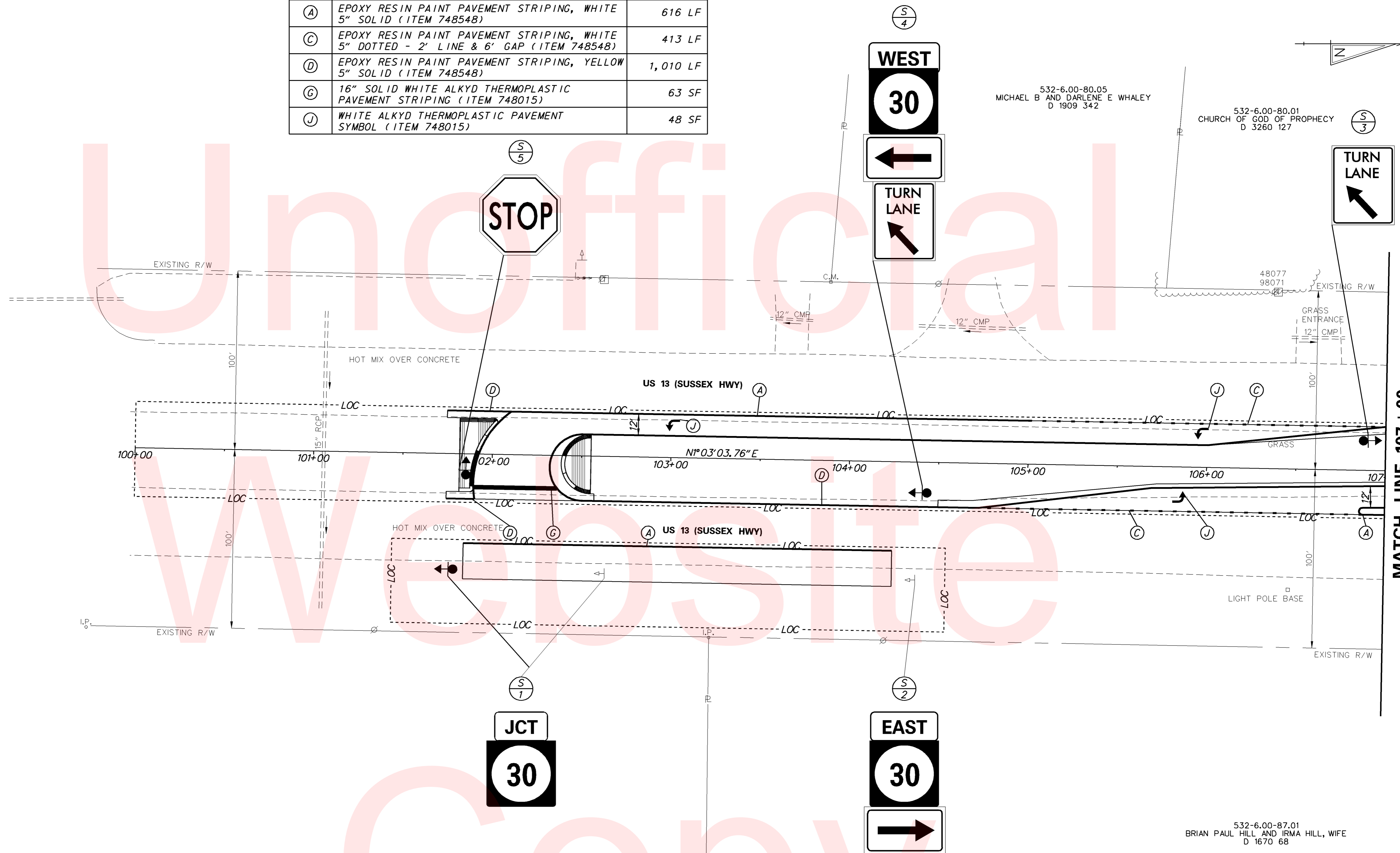
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ADDENDUMS / REVISIONS	



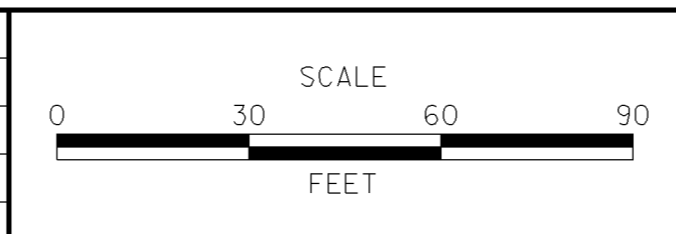
CONTRACT	T201600901	BRIDGE NO.	X
COUNTY	SUSSEX	DESIGNED BY:	NER
		CHECKED BY:	JLC

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	616 LF
(C)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548)	413 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	1,010 LF
(G)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	63 SF
(J)	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	48 SF



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ADDENDUMS / REVISIONS



**TASK 2 - HRRRP SC, US 13 AT SR 30
DOROTHY ROAD/WHITESVILLE ROAD**

CONTRACT T201600901	BRIDGE NO. X
COUNTY SUSSEX	DESIGNED BY: NER
	CHECKED BY: JLC

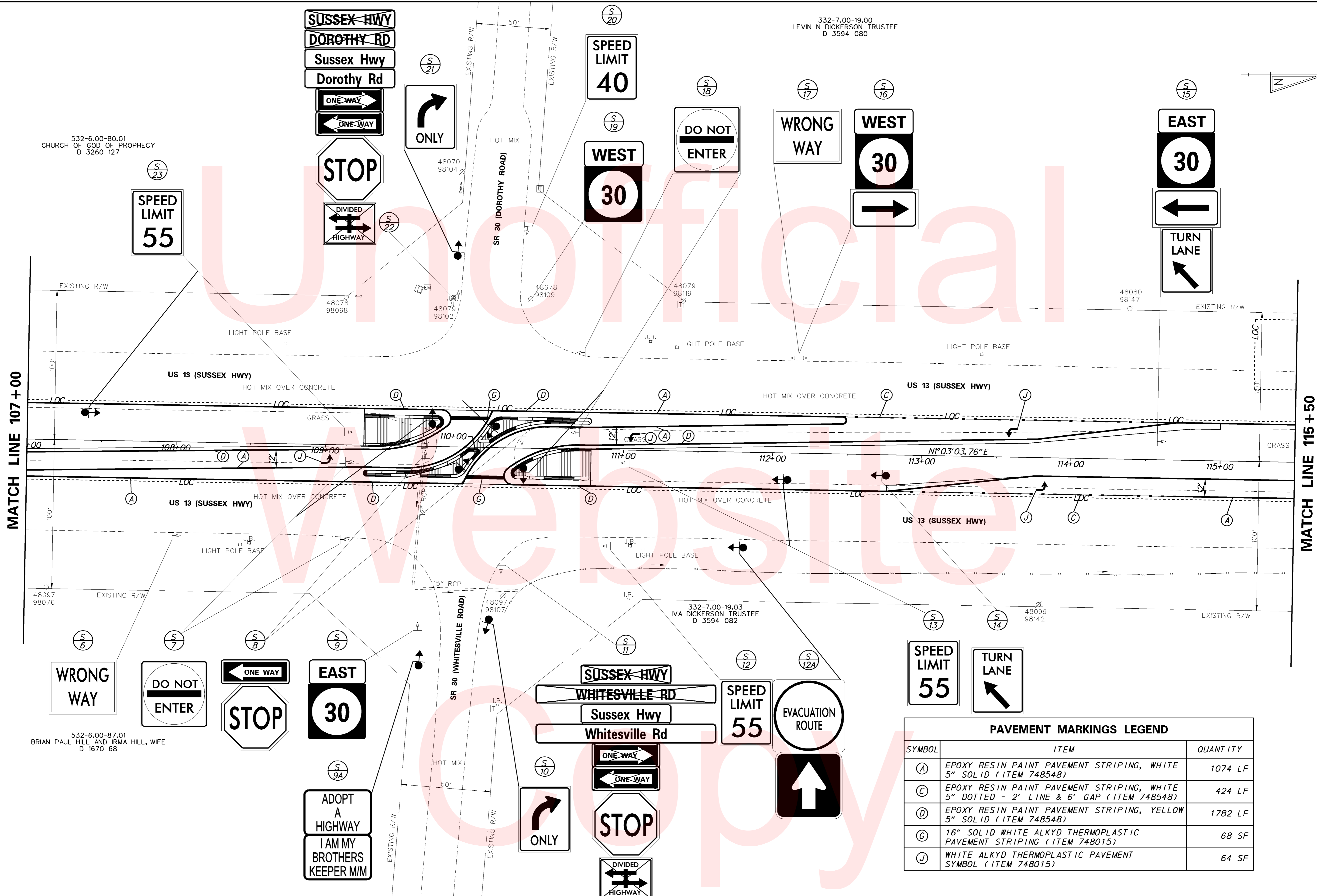
**SIGNING, STRIPING
AND CONDUIT PLAN**

SHEET NO. 25
TOTAL SHTS. 28

532-6.00-80.01
CHURCH OF GOD OF PROPHECY
D 3260 127

332-7.00-19.00
LEVIN N DICKERSON TRUSTEE
D 3594 080

532-6.00-87.01
BRIAN PAUL HILL AND IRMA HILL, WIFE
D 1670 68



S 23
SPEED LIMIT
55

S 20
SPEED LIMIT
40

S 19
WEST
30

S 18
DO NOT
ENTER

S 17
WRONG
WAY

S 16
WEST
30

S 15
EAST
30

TURN LANE

TURN LANE

S 6
WRONG
WAY

S 7
DO NOT
ENTER

S 8
ONE WAY

S 9
EAST
30

S 11
SUSSEX HWY
WHITESVILLE RD
Sussex Hwy
Whitesville Rd

S 12
SPEED LIMIT
55

S 12A
EVACUATION
ROUTE

S 13
SPEED LIMIT
55

S 14
TURN LANE

S 9A
ADOPT
A
HIGHWAY
I AM MY
BROTHERS
KEEPER M/M

S 10
ONLY

S 10
STOP

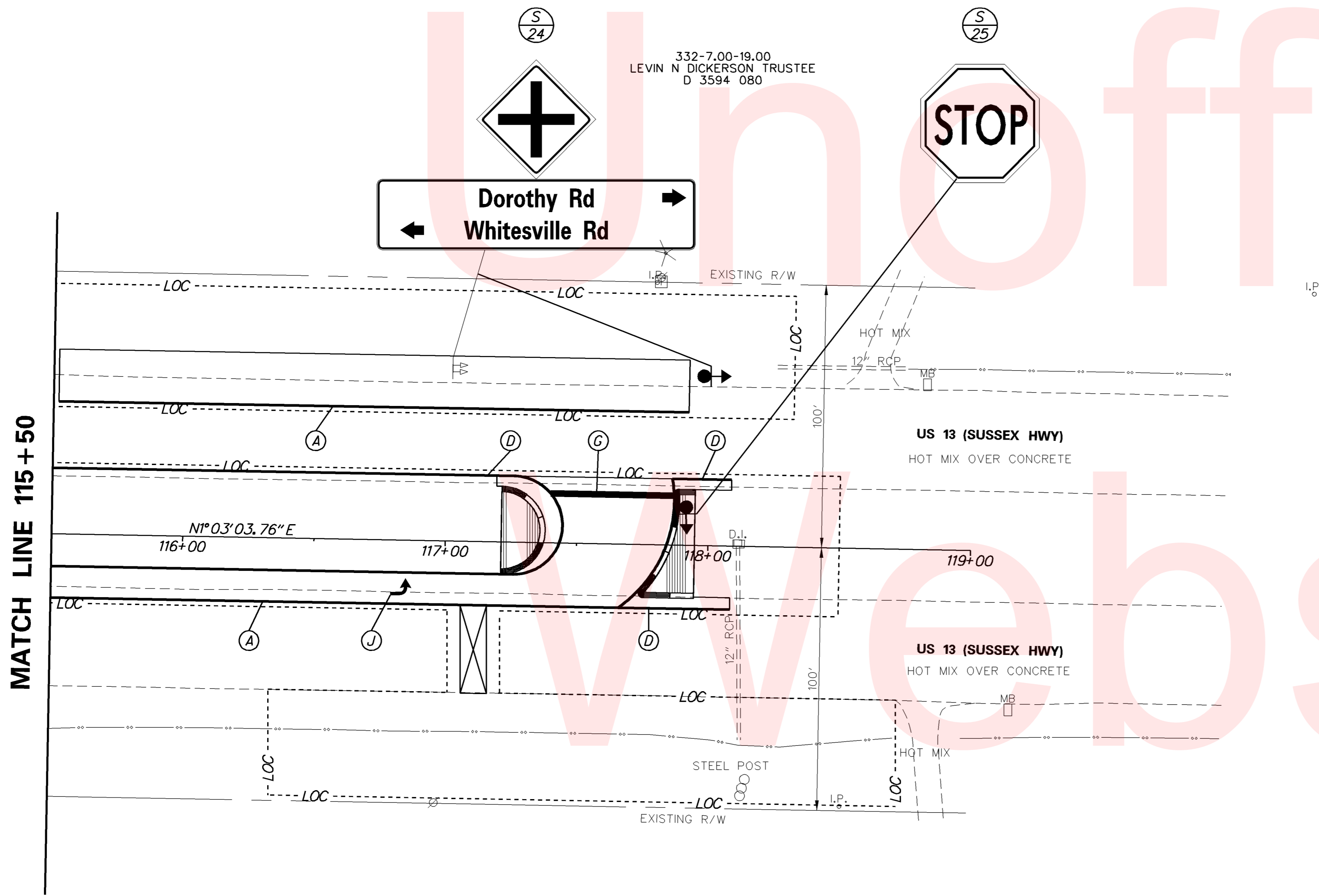
DIVIDED
HIGHWAY

PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	1074 LF
(C)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548)	424 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	1782 LF
(G)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	68 SF
(J)	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	64 SF

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PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	514 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	474 LF
(G)	16" SOLID WHITE ALKYD THERMOPLASTIC PAVEMENT STRIPING (ITEM 748015)	63 SF
(J)	WHITE ALKYD THERMOPLASTIC PAVEMENT SYMBOL (ITEM 748015)	16 SF



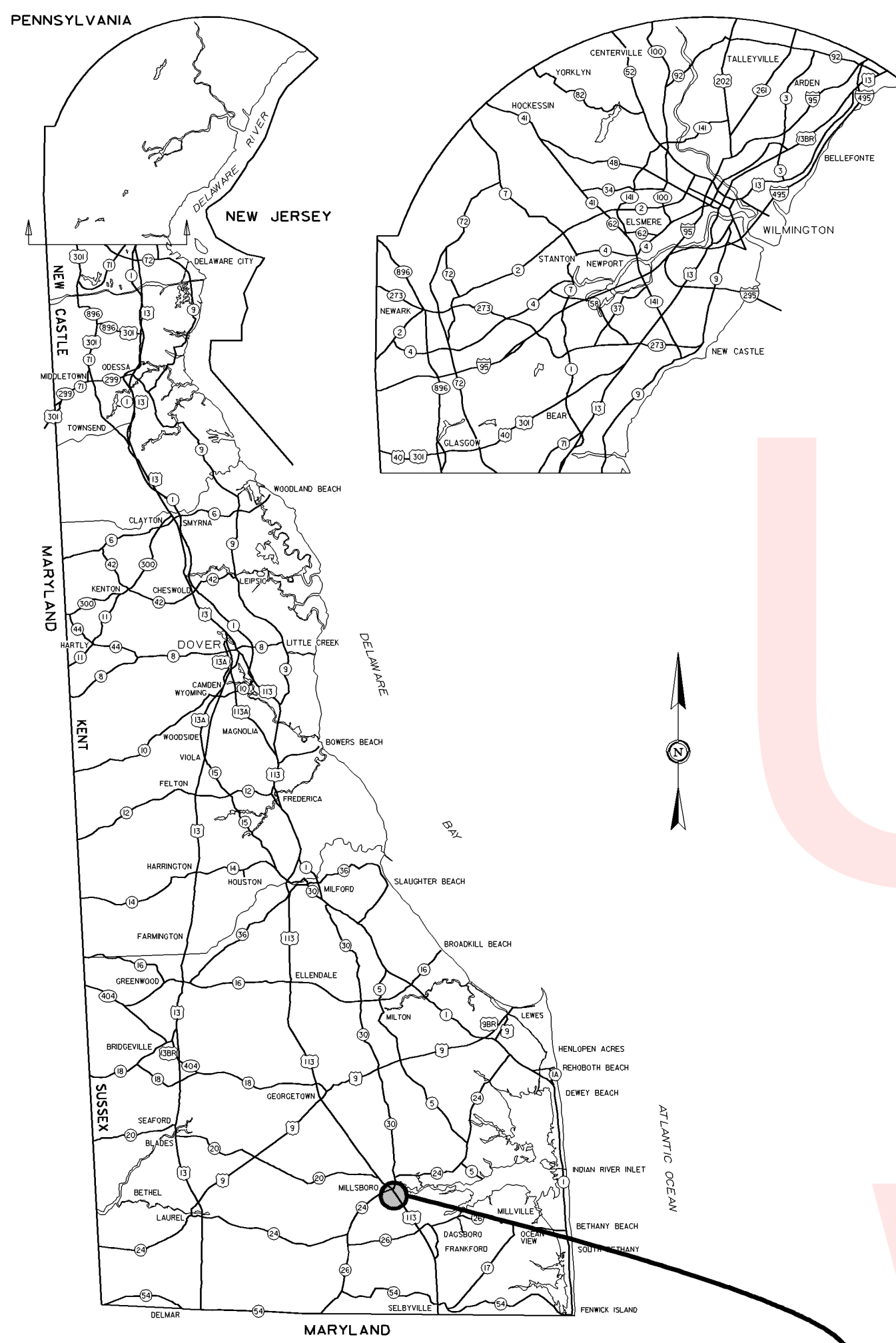
332-7.00-19.00
LEVIN N DICKERSON TRUSTEE
D 3594 080

332-7.00-19.03
IVA DICKERSON TRUSTEE
D 3594 082

MATCH LINE 115+50

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<p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS		<p>SCALE</p> <p>FEET</p>	<p>TASK 2 - HRRRP SC, US 13 AT SR 30 DOROTHY ROAD/WHITESVILLE ROAD</p>		<p>CONTRACT</p> <p>T201600901</p>	<p>BRIDGE NO.</p> <p>X</p>	<p>SIGNING, STRIPING AND CONDUIT PLAN</p>	<p>SHEET NO.</p> <p>27</p>	
					<p>COUNTY</p> <p>SUSSEX</p>	<p>DESIGNED BY: NER</p>	<p>CHECKED BY: JLC</p>		<p>TOTAL SHTS.</p> <p>28</p>	



GENERAL LOCATION OF TASK

THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY
UNITS

FINAL PLANS



CONSTRUCTION PLANS FOR: OPEN-END CONSTRUCTION SERVICES, SUSSEX COUNTY TASK 3 - HEP SC, US 113 AT MILLSBORO TOWNE SQUARE/1ST STREET

CONTRACT NUMBER: T201600901
FEDERAL AID PROJECT NUMBER: ESTP-2015(31)

COUNTY: SUSSEX M.R. #: 113

DESIGN DESIGNATION		
FUNCTIONAL CLASS: PRINCIPAL ARTERIAL	D.H.V. PROJECTED: 2378	YEAR: 2040
TYPE OF CONSTRUCTION: MEDIAN/BRIDGE IMPROV.	DESIGN SPEED: 55 M.P.H.	
A.A.D.T. CURRENT: 30888	YEAR: 2013	TRUCKS: 12 %
A.A.D.T. PROJECTED: 41000	YEAR: 2040	DIRECTION OF DISTRIBUTION: 58 %

INDEX OF SHEETS	
SHEET NO	TABLE OF CONTENTS
1	TITLE
2	LEGEND
3	PROJECT NOTES
4	HORIZONTAL AND VERTICAL CONTROL
5	CONSTRUCTION PLANS
6	GRADES AND GEOMETRICS
7	CONSTRUCTION DETAILS
8-9	CONSTRUCTION PHASING, M.O.T. AND EROSION CONTROL PLANS
10-11	SIGNING, STRIPING AND CONDUIT PLANS

TOTAL SHEETS: 11

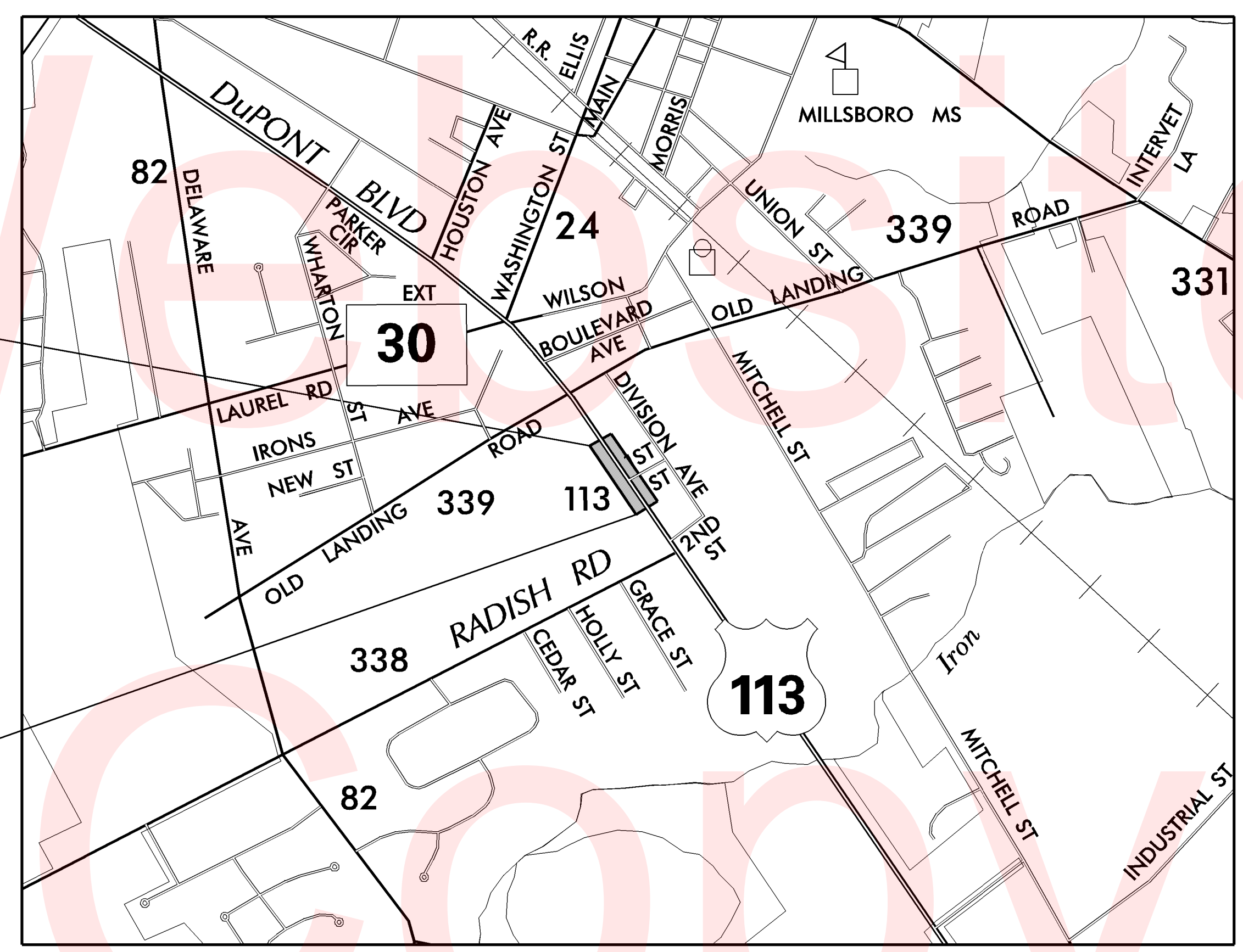
APPROVED DESIGN EXCEPTIONS			
DESIGN PARAMETER	REQUIRED	PROVIDED	DATE

ADDENDA & REVISIONS	
DESCRIPTION	NAME & DATE

ASSOCIATED CONTRACTS	
CONTRACT NO.	CONTRACT NAME
97-109-03	US 113 NORTH DAGSBORO TO NORTH MILLSBORO

END TASK
STATION 133 + 50

BEGIN TASK
STATION 126 + 50



PREPARED BY
THE CONSULTING FIRM OF

RECOMMENDED

DATE

RECOMMENDED

Sarah E. Crivell 07/20/2015
SQUAD MANAGER, CONSTRUCTION DATE

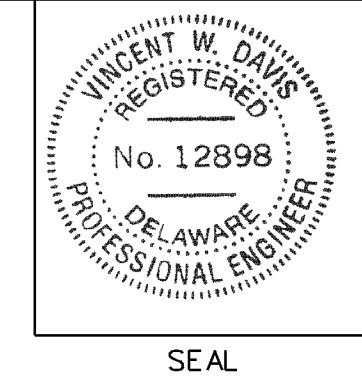
Bradford L. Schmitz 07/20/2015
GROUP ENGINEER, CONSTRUCTION DATE

Jim A. Fazio 07/20/2015
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS (CONSTRUCTION) DATE

RECOMMENDED

Vincent W. Davis
STORMWATER ENGINEER

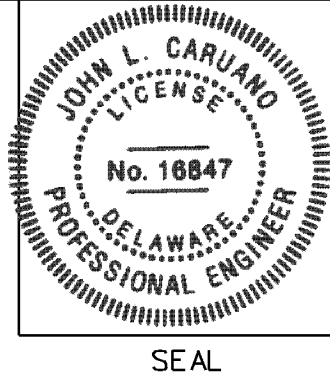
DATE 07/15/2015



RECOMMENDED

John L. Casano
SQUAD MANAGER, TRANSPORTATION SOLUTIONS (PROJECT DEVELOPMENT OR BRIDGE DESIGN)

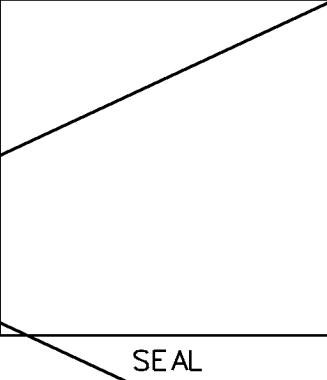
DATE 07/14/2015



RECOMMENDED

BRIDGE DESIGN ENGINEER

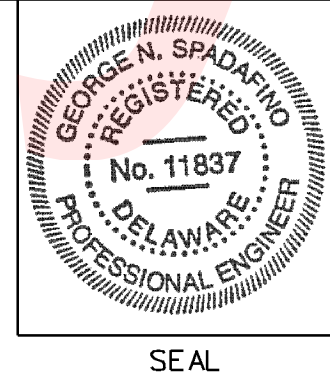
DATE



RECOMMENDED

George N. Spadaro
GROUP ENGINEER, PROJECT DEVELOPMENT

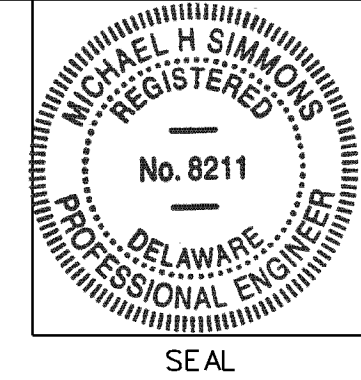
DATE 07/20/2015



RECOMMENDED

Michael H. Simojos
ASSISTANT DIRECTOR, TRANSPORTATION SOLUTIONS

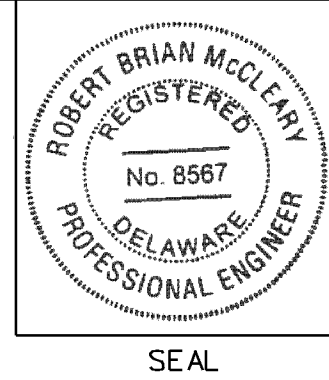
DATE 07/20/2015



APPROVED

Robert Brian McCleary
CHIEF ENGINEER

DATE 07/21/2015



EXISTING SYMBOLS

DRAINAGE	
	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
	DRAINAGE INLET
	DRAINAGE JUNCTION BOX
	DRAINAGE MANHOLE
	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
	RIPRAP - LINEAR FEATURE

MANMADE ROADSIDE FEATURES	
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	CURB
	CURB AND GUTTER
	FENCE - CHAINLINK OR STRANDED
	FENCE - STOCKADE OR SPLIT RAIL
	FLAG POLE
	GUARDRAIL - STEEL BEAM
	GUARDRAIL - WIRE ROPE
	LAMP AND POST - RESIDENTIAL
	MAILBOX
	PARKING METER AND POST
	PAVEMENT - FLEXIBLE
	PAVEMENT - RIGID
	PILE - BRIDGE
	PILLAR OR MISCELLANEOUS POST
	TRAFFIC SIGN AND POST
	WALL - BRICK OR BLOCK
	WALL - STONE

NATURAL ROADSIDE FEATURES	
	GRASS LAWN
	HEDGEROW OR THICKET
	MARSH BOUNDARY LINE
	TREE - CONIFEROUS
	TREE - DECIDUOUS
	TREE STUMP
	SHRUBBERY
	DELINEATED WETLAND BOUNDARY LINE
	WOODS LINE BOUNDARY

RIGHT-OF-WAY SYMBOLS	
	PROPERTY MARKER - CONCRETE MON.
	PROPERTY MARKER - IRON PIPE
	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING EASEMENT
	EXISTING DENIAL OF ACCESS
	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION	
	SURVEY BENCHMARK LOCATION
	SURVEY TIE POINT LOCATION
	SURVEY TRAVERSE POINT
	POINT OF CURVATURE OR TANGENCY
	POINT OF INTERSECTING TANGENTS

UTILITY	
	SOIL BORING LOCATION
	UTILITY TEST HOLE LOCATION
	CABLE TV DISTRIBUTION BOX
	ELECTRIC MANHOLE
	ELECTRIC METER
	ELECTRIC TRANSFORMER
	POLE MOUNTED LUMINAIRE
	GAS MANHOLE
	GAS METER
	GAS VALVE
	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
	SANITARY SEWER MANHOLE
	SANITARY SEWER VALVE
	SANITARY SEWER VENT OR CLEANOUT
	SEPTIC DRAIN FIELD
	TELEPHONE BOOTH
	TELEPHONE MANHOLE
	TELEPHONE TEST POINT
	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
	TRAFFIC - SIGNAL POLE AND BASE
	UTILITY BOX
	UTILITY POLE GUY WIRE ANCHOR
	UTILITY POLE
	WATER - FIRE HYDRANT
	WATER METER
	WATER VALVE
	WELL HEAD
	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES	
	CHESAPEAKE UTILITIES
	EASTERN SHORE NATURAL GAS
	DELMARVA POWER - ELECTRIC
	VERIZON
	VERIZON - ABANDONED
	DELDOT SIGNAL CONDUIT

PROPOSED SYMBOLS

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BRICK PATTERNED SURFACE
	BUTT JOINT
	CONSTRUCTION BASELINE
	CONSTRUCTION SAFETY FENCE
	CURB, TYPE 1 & TYPE 3
	CURB, TYPE 2
	CURB & GUTTER, TYPE 1
	CURB & GUTTER, TYPE 2
	CURB & GUTTER, TYPE 3
	CURB & GUTTER, TYPE 4
	CURB OPENING
	CLEAR ZONE
	DRAINAGE INLET
	DITCH
	FENCE - METAL
	FENCE - WOOD
	FLARED END SECTION
	GUARDRAIL, TYPE 1
	GUARDRAIL, TYPE 2
	GUARDRAIL, TYPE 3
	GUARDRAIL END ANCHORAGE
	GUARDRAIL END TREATMENT, TYPE 1
	GUARDRAIL END TREATMENT, TYPE 2
	GUARDRAIL END TREATMENT, TYPE 3
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	LATERAL OFFSET
	LIMIT OF CONSTRUCTION
	MAILBOX
	MANHOLE
	PAVEMENT PATCH
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH
	PIPE & DIRECTIONAL FLOW ARROW
	RIPRAP
	P.C.C. SIDEWALK - 4"
	P.C.C. SIDEWALK 8" - ITEM 705005 OVER 8" GABC
	UNDERDRAIN
	UNDERDRAIN OUTLET

RIGHT-OF-WAY SYMBOLS	
	PROPOSED RIGHT-OF-WAY MONUMENT
	PROPOSED DENIAL OF ACCESS
	PROPOSED PERMANENT EASEMENT
	PROPOSED RIGHT-OF-WAY
	PROPOSED R/W & DENIAL OF ACCESS
	TEMPORARY CONSTRUCTION EASEMENT
	PROPOSED RIGHT-OF-WAY BASELINE

IDENTIFIERS	
	ADJUST BY CONTRACTOR
	ADJUST BY OTHERS
	CONCRETE SAFETY BARRIER
	CURB OR CURB & GUTTER
	CONVERT TO JUNCTION BOX
	CONVERT TO DRAINAGE MANHOLE
	CURB OPENING
	CURB RAMP / TYPE
	CURB RAMP / TYPE - WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	CONSTRUCTION SAFETY FENCE
	DRAINAGE INLET
	DO NOT DISTURB
	ENERGY DISSIPATOR
	FENCE
	FLARED END SECTION
	FILL WITH FLOWABLE FILL
	FILTRATION STRUCTURE
	GUARDRAIL
	JUNCTION BOX
	MANHOLE
	MONUMENT - RIGHT-OF-WAY
	PIPE
	RELOCATE BY CONTRACTOR
	RELOCATE BY OTHERS
	REMOVE BY CONTRACTOR
	REMOVE BY OTHERS
	UNDERDRAIN / LENGTH
	UNDERDRAIN OUTLET PIPE

LANDSCAPING	
	LANDSCAPE PLANTINGS
	SHRUBBERY
	CONIFEROUS TREE
	DECIDUOUS TREE

TRAFFIC	
	ITMS CONDUIT
	SIGNAL CONDUIT
	CONDUIT JUNCTION WELL
	LUMINAIRE
	PAVEMENT MARKINGS
	PAVEMENT STRIPING
	TRAFFIC SIGN

PAVEMENT SECTION(S)	
	RECONSTRUCTED PAVEMENT 2" BITUMINOUS CONCRETE PAVEMENT, TYPE C, 160 GYRATIONS, PG 70-22, (NON-CARBONATE STONE) - ITEM 401830 3" BITUMINOUS CONCRETE PAVEMENT, TYPE B, 160 GYRATIONS, PG 70-22 - ITEM 401813 6" BITUMINOUS CONCRETE BASE COURSE, 160 GYRATIONS, PG 64-22 - ITEM 401819 8" GABC, TYPE B - ITEM 302007

GENERAL NOTES

1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2001 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2001, INCLUDING ALL REVISIONS UP TO THE DATE OF ADVERTISEMENT.

EROSION POTENTIAL FOR THIS PROJECT	CONTRACTOR ESC SUPERVISOR REQUIREMENT
() INSIGNIFICANT	NONE
(X) MINOR	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MEDIUM	CONTRACTOR TRAINING PROGRAM, AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
() MAJOR	CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 6.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.

3. ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR, INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	ALL PLAN SHEETS, IN PDF FORMAT.
()	EXISTING DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	PROPOSED DIGITAL TERRAIN MODEL, IN .DTM FILE FORMAT, COMPATIBLE WITH SOFTWARE CURRENTLY USED BY DELDOT.
()	DESIGN FILE, IN .DGN FILE FORMAT, CONTAINING ONLY THE PROPOSED 3D TRIANGLES OF THE PROPOSED DIGITAL TERRAIN MODEL (DTM).

NOTE: THE DOCUMENT ENTITLED "RELEASE FOR DELIVERY OF DOCUMENTS IN ELECTRONIC FORM TO A CONTRACTOR" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

4. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

()	CROSS SECTIONS
()	RIGHT-OF-WAY PLANS (WILL BE MADE AVAILABLE TO THE AWARDED CONTRACTOR)

5. AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

()	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
(X)	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT OR ANOTHER ATSSA CERTIFIED MEMBER OF THE CONTRACTOR'S PROJECT STAFF MAY BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 743000.
()	THE CONTRACTOR SHALL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT. THE ATSSA SUPERVISOR'S SOLE JOB SHALL BE SUPERVISION OF THE INSTALLATION, OPERATION AND MAINTENANCE OF TRAFFIC CONTROL DEVICES FOR THIS PROJECT. THE CONTRACTOR'S GENERAL SUPERINTENDENT FOR THIS PROJECT SHALL NOT BE THE ATSSA SUPERVISOR. PAYMENT FOR ATSSA SUPERVISOR SHALL BE PAID FOR UNDER ITEM 743031.

6. THE DISTURBED AREA FOR THIS PROJECT IS 3.78 ACRES.

7. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE SEDIMENT AND STORMWATER MANAGEMENT PLANS ARE VALID FOR A THREE YEAR PERIOD, BEGINNING ON THE DATE THE STORMWATER ENGINEER SIGNED THE CONSTRUCTION TITLE SHEET. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE THREE YEARS, THE CONTRACTOR WILL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS. THE STORMWATER ENGINEER WILL REVIEW THE CURRENT SEDIMENT AND STORMWATER MANAGEMENT PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

PROJECT NOTES

SECTION 100

1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.

SECTION 200

2. THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE SET 46 INCHES ABOVE THE ROADWAY SURFACE. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE PLACED IN AN APPROPRIATE SIZE PVC SLEEVE. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT.

3. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO EXCAVATE TEST PITS ALONG PROPOSED DRAINAGE RUNS, AT POINTS OF POSSIBLE UTILITY CONFLICTS, TO DETERMINE IF A CONFLICT EXISTS. ANY CONFLICTS SHALL BE COORDINATED BY THE CONTRACTOR, WITH THE ENGINEER AND THE UTILITY COMPANY INVOLVED. THE ENGINEER SHALL ULTIMATELY DETERMINE THE SOLUTION TO THE UTILITY CONFLICT. TEST HOLES SHALL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 202000 - EXCAVATION AND EMBANKMENT, BUT ONLY TO THE ACTUAL DEPTH EXCAVATED.

SECTION 300

4. A. THE CONTRACTOR MAY ELECT TO USE ANY OF THE FOLLOWING MATERIALS TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B':

- a. CRUSHED STONE (PER STANDARD SPECIFICATION 821)
- b. CRUSHED CONCRETE (PER STANDARD SPECIFICATION 821)
- c. HOT-MIX MILLINGS (PER SPECIAL PROVISION 302514 MILLED HOT-MIX BASE COURSE)

THE CONTRACTOR WILL NOT BE ALLOWED TO MIX DIFFERENT MATERIALS (OR SIMILAR MATERIALS FROM DIFFERENT SOURCES) TO MEET THE REQUIREMENTS OF ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

ALL OF THE ABOVE LISTED MATERIALS ARE PERMITTED FOR USE ON THE JOB, PROVIDED THEY ARE SEPARATED INTO APPROVED AREAS. EACH AREA OF BASE COURSE MUST BE CONSTRUCTED USING MATERIALS FROM A SINGULAR SOURCE, FULL DEPTH, IN ORDER THAT PROPER TESTING MAY BE ACCOMPLISHED. THE CONTRACTOR AND ENGINEER SHALL AGREE ON THE LIMITS OF EACH SOURCE OF MATERIAL PRIOR TO PLACEMENT.

B. THE QUANTITY USED FOR BASE OF EACH OF THE ABOVE LISTED MATERIALS WILL BE THE CONTRACTOR'S CHOICE, WITH THE TOTAL BEING EQUAL TO THE ACTUAL QUANTITY USED UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.

C. THE CONTRACTOR MAY ALSO ELECT TO RECYCLE MILLINGS FOR USE IN HOT-MIX AS PERMITTED BY THE STANDARD SPECIFICATIONS. THE CHOICE OF THE QUANTITY OF MILLINGS USED FOR THIS PURPOSE, OR FOR BASE COURSE, LIES WITH THE CONTRACTOR. ALL EXCESS MILLING MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

D. HOT-MIX MILLINGS MAY BE GENERATED FROM THE FOLLOWING SOURCES:

- a. MATERIAL MADE AVAILABLE WHEN MILLED ON THIS CONTRACT UNDER ITEM 760507.
- b. MATERIAL MILLED ON THIS CONTRACT AT THE CONTRACTOR'S CHOICE UNDER ITEM 202000.
- c. MILLED MATERIAL FURNISHED ON THE JOB FROM THE CONTRACTOR'S YARD OR OTHER OUTSIDE SOURCE.

ALL MILLED MATERIALS SHALL MEET THE MATERIAL REQUIREMENTS OF ITEM 302514 - MILLED HOT-MIX BASE COURSE.

E. PAYMENT CLARIFICATION:

- a. SHOULD THE CONTRACTOR ELECT TO MILL PORTIONS OF HOT-MIX SHOWN ON THE PLANS TO BE REMOVED UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT THE COST OF MILLING THIS HOT-MIX WILL BE PAID AS ITEM 202000 - EXCAVATION AND EMBANKMENT. THE MILLINGS GENERATED MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE, OR DISPOSED OF TO AN APPROVED SITE. HAULING COSTS FOR DISPOSAL AND/OR RECYCLING ARE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.
- b. MILLINGS GENERATED UNDER ITEM 760502 - PAVEMENT MILLINGS, TAPERCUT MAY BE RECYCLED INTO HOT-MIX, UTILIZED FOR BASE COURSE OR DISPOSED OF BY THE CONTRACTOR TO AN APPROVED SITE. NO SEPARATE PAYMENT WILL BE MADE FOR TRANSPORTING MILLINGS ON SITE OR TO AN APPROVED DISPOSAL SITE.
- c. SHOULD THE CONTRACTOR ELECT TO TEMPORARILY STOCKPILE MILLINGS ON THE JOB SITE FOR LATER USE, ALL COSTS FOR STOCKPILING AND SUBSEQUENT REHANDLING SHALL BE INCIDENTAL TO ITEM 202000 - EXCAVATION AND EMBANKMENT.
- d. MILLINGS USED FOR BASE COURSE SHALL BE PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE. NO SEPARATE PAYMENT WILL BE MADE TO FURNISH MILLINGS FROM AN OUTSIDE SOURCE OR TRANSPORT MILLINGS WITHIN THE PROJECT LIMITS. MILLINGS USED FOR BASE COURSE WILL BE PAID FOR AT THE UNIT BID PRICE FOR ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'.
- e. ALL COSTS TO UTILIZE MILLINGS IN RECYCLED HOT-MIX WILL BE INCIDENTAL TO THE UNIT PRICE BID FOR THE HOT-MIX ITEM USING THE RECYCLED MATERIAL.
- f. SPECIAL PROVISION 302514 - MILLED HOT-MIX BASE COURSE IS PROVIDED TO SPECIFY THE MEANS OF LAY DOWN AND COMPACTION AS WELL AS THE MATERIAL REQUIREMENTS FOR MILLINGS USED AS BASE COURSE. ALL COSTS TO BRING THE MILLINGS INTO COMPLIANCE WITH THE REQUIREMENTS OF ITEM - 302514 MILLED HOT-MIX BASE COURSE ARE INCIDENTAL TO ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE 'B'. NO PAYMENT WILL BE MADE FOR ITEM 302514 - MILLED HOT-MIX BASE COURSE. THE QUANTITY OF MILLINGS USED FOR BASE COURSE WILL BE PAID FOR UNDER ITEM 302007 - GRADED AGGREGATE BASE COURSE.

SECTION 600

5. THE DEPARTMENT AND THE CONTRACTOR SHALL INSPECT ALL EXISTING PIPES AND DRAINAGE STRUCTURES TO BE USED IN THE FINAL DRAINAGE SYSTEM AND AGREE ON THE CONDITION PRIOR TO THE START OF CONSTRUCTION. EXISTING PIPES AND DRAINAGE STRUCTURES DAMAGED DUE TO CONTRACTOR OPERATIONS SHALL BE REPAIRED OR REPLACED IN-KIND AT THE CONTRACTOR'S EXPENSE. THE DEPARTMENT WILL VIDEO INSPECT NEW PIPE RUNS TO CONFIRM CONDITION PRIOR TO ACCEPTANCE. PIPE CLEANING PRIOR TO VIDEO INSPECTION AND MAINTENANCE OF TRAFFIC DURING THE VIDEO INSPECTION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND INCIDENTAL TO THE PIPE ITEM THAT IS BEING VIDEO INSPECTED.

SECTION 700

6. IN AREAS WHERE PROPOSED CURB MEETS EXISTING CURB AND THE TWO CURB TYPES ARE NOT SIMILAR, THE PROPOSED CURB SHALL BE TRANSITIONED IN 10 LINEAR FEET, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR THIS WORK, INCLUDING SAW CUTTING EXISTING CURB SHALL BE INCIDENTAL TO THE PROPOSED CURB ITEM.

7. PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.

8. STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS, AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.

9. DRAINAGE INLET GRATES ADJACENT TO THE ROAD, WITHIN THE PROJECT LIMITS, WHICH ARE NOT TYPE 1 SHALL BE REPLACED. THE ACTUAL LOCATIONS, THE NEED FOR ANY GRATE MODIFICATIONS OR FOR NEW FRAMES SHALL BE DETERMINED BY THE ENGINEER. ALL REPLACED GRATES/FRAMES SHALL BE DELIVERED TO THE NEAREST DISTRICT MAINTENANCE YARD WITH THE COST OF DELIVERY INCIDENTAL TO ITEM 708060 - REPLACING DRAINAGE INLET GRATE(S). FINAL PAYMENT FOR REPLACED GRATES/FRAMES SHALL NOT BE MADE UNTIL RECEIPT OF DELIVERED MATERIALS IS PRODUCED, SIGNED BY A DELDOT MAINTENANCE YARD SUPERVISOR.

10. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT FULL DEPTH AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.

11. ALL WORK REQUIRED FOR CALCULATING AND STAKING OUT OF GRADES SHALL BE PAID FOR UNDER ITEM 763621 - CONSTRUCTION ENGINEERING.

SECTION 900

12. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S TEAM SUPPORT SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

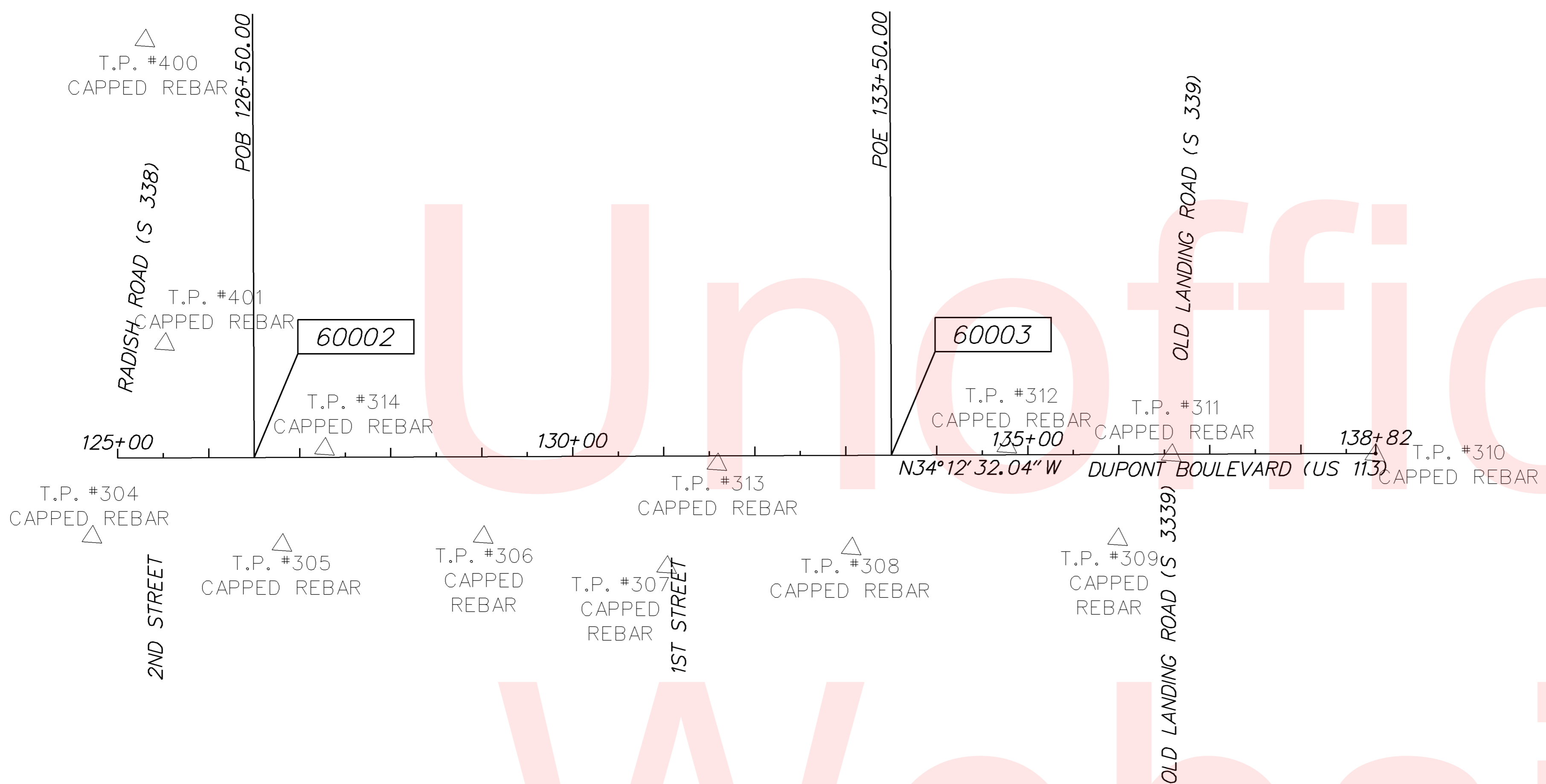
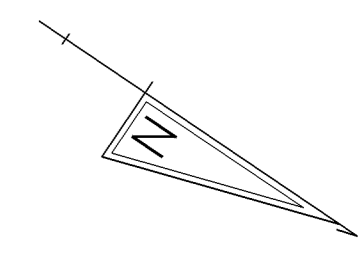
MISCELLANEOUS

13. THE CONTRACTOR SHALL CONTACT MICHAEL ELLER, THE CHIEF OF SCHEDULING FOR DART FIRST STATE, 14 DAYS PRIOR TO THE START OF CONSTRUCTION AT 302-576-6061.

14. THERE ARE NO ENVIRONMENTAL PERMITS ASSOCIATED WITH THIS PROJECT. AS SUCH, AN ENVIRONMENTAL COMPLIANCE SHEET WAS NOT PREPARED.

LAST REVISED: 10/22/2013
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 <p>DELAWARE DEPARTMENT OF TRANSPORTATION</p>	ADDENDUMS / REVISIONS	NOT TO SCALE	TASK 3 - HEP SC, US113 AT MILLSBORO TOWNE SQUARE/ 1ST STREET	CONTRACT	BRIDGE NO.	NA	NOTES	SHEET NO.	
					T201600901	DESIGNED BY: ANM		3	
					COUNTY	CHECKED BY: JLC		TOTAL SHTS.	
					SUSSEX			11	

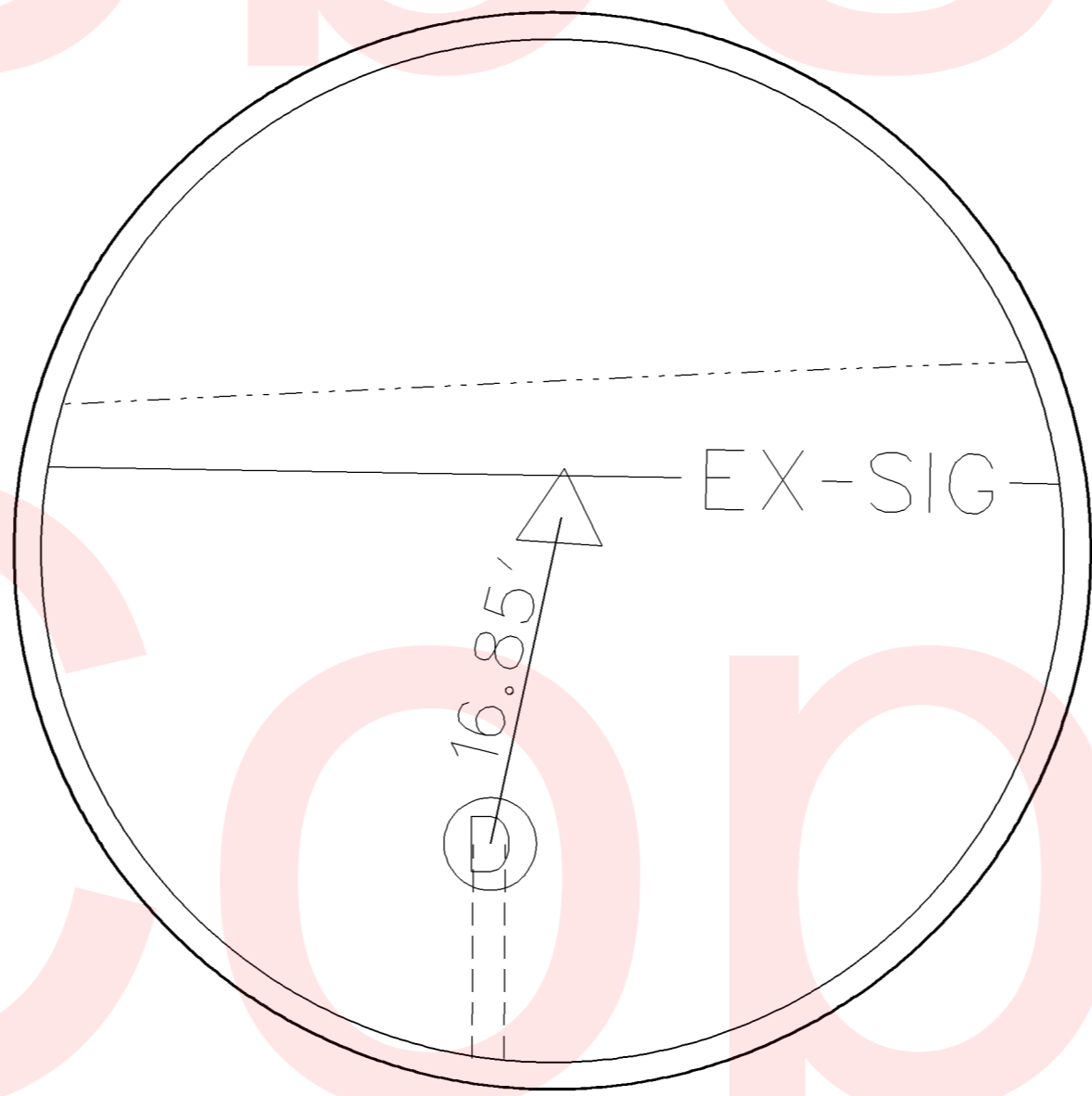
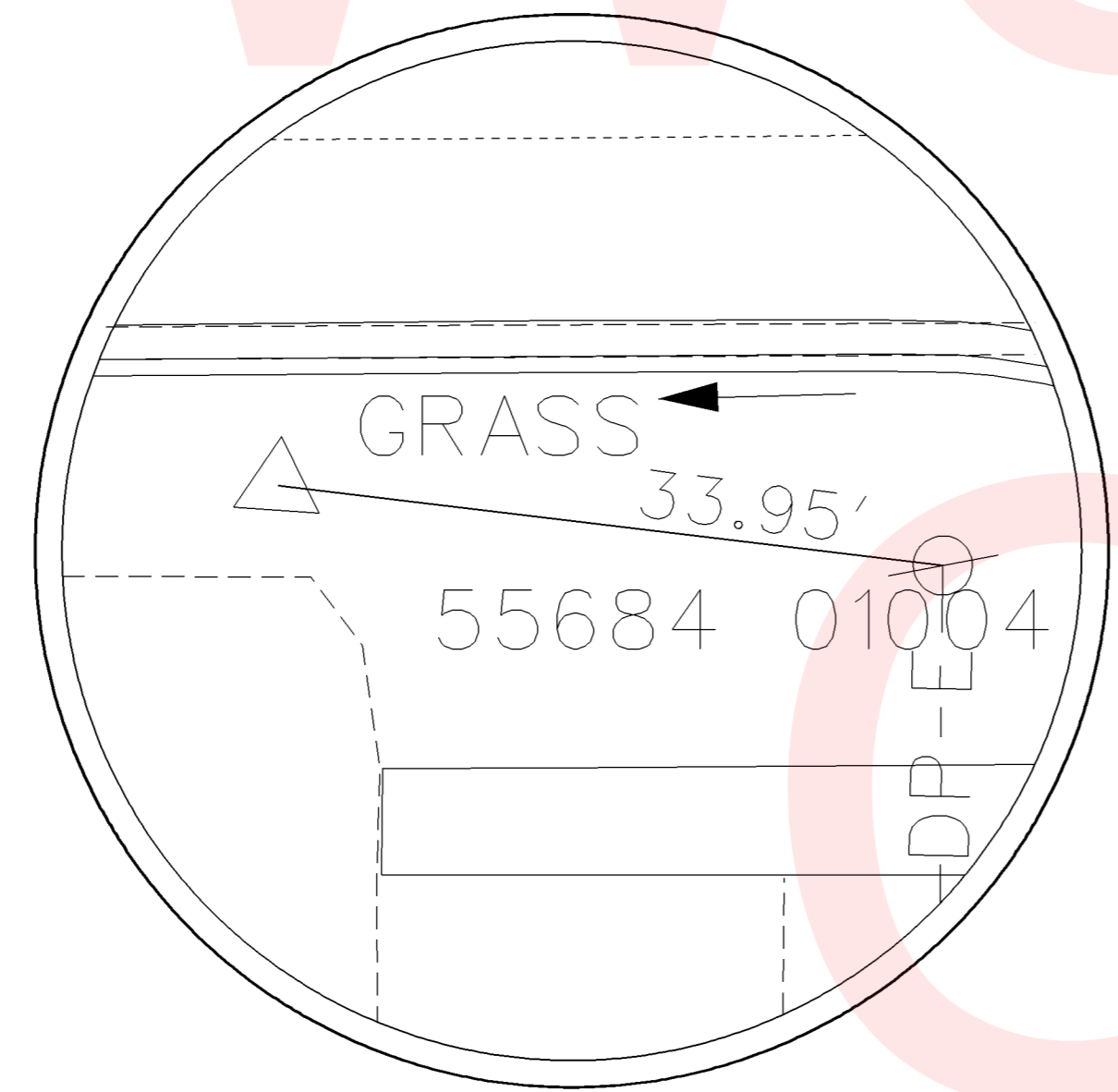


HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
304	124+71.81	86.32'	211782.7454	692013.7255	24.51
305	126+80.45	96.01'	211960.7381	691904.4344	24.79
306	129+01.57	88.13'	212139.1730	691773.6008	23.82
307	131+03.05	121.96'	212324.8127	691688.3105	23.94
308	133+06.20	102.28'	212481.7524	691557.8177	23.78
309	135+98.84	93.02'	212718.5559	691385.6287	23.46
310	138+81.71	1.44'	212901.0028	691150.8622	22.80
311	136+58.15	0.91'	212715.8201	691276.1143	23.80
312	134+77.40	-9.07'	212560.7305	691369.4856	21.77
313	131+58.87	9.12'	212307.5337	691563.6049	22.15
314	127+27.69	-9.46'	211940.5080	691790.6507	22.95
400	125+32.03	-458.99'	211525.9655	691528.8932	24.50
401	125+52.44	-125.30'	211730.4494	691793.3814	24.07

NOTE: NEGATIVE DENOTES LEFT OF BASELINE

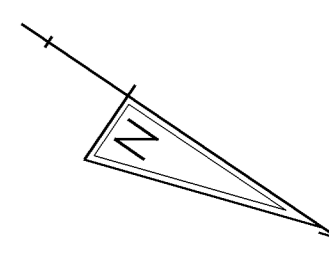
CONSTRUCTION ALIGNMENT CONTROL					
POINT	STATION	OFFSET	NORTHING	EASTING	
60002	126+50.00	0.00'	211881.5769	691842.1548	
60003	133+50.00	0.00'	212460.4721	691448.6064	
	125+00.00	0.00'	211757.5279	691926.4866	
	130+00.00	0.00'	212171.0245	691645.3806	
	135+00.00	0.00'	212584.5211	691364.2746	

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

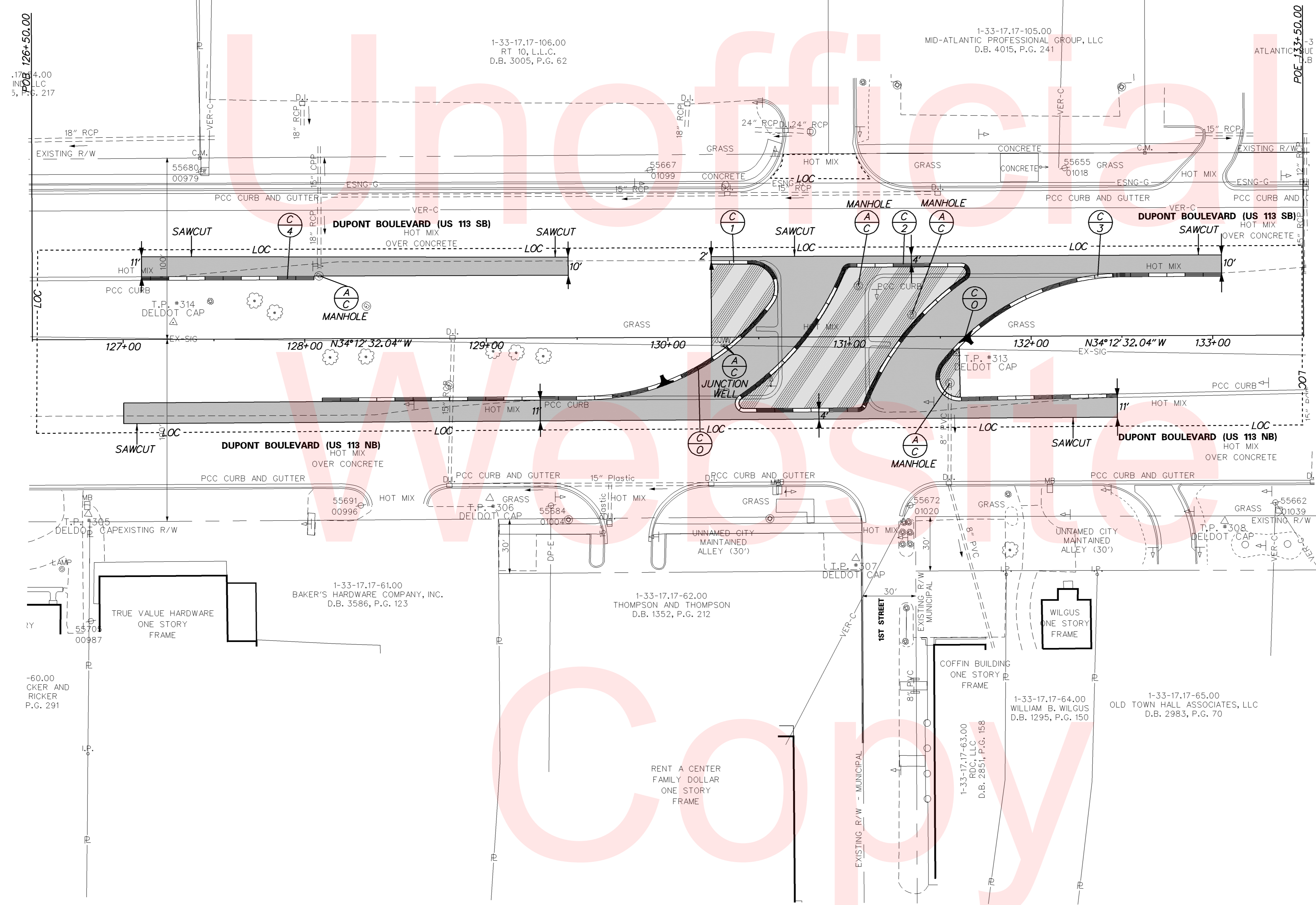


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DELAWARE DEPARTMENT OF TRANSPORTATION	ADDENDUMS / REVISIONS	SCALE FEET	TASK 3 - HEP SC, US113 AT MILLSBORO TOWNE SQUARE/ 1ST STREET	CONTRACT T201600901	BRIDGE NO. NA	HORIZONTAL AND VERTICAL CONTROL	SHEET NO. 4
					COUNTY SUSSEX		DESIGNED BY: ANM

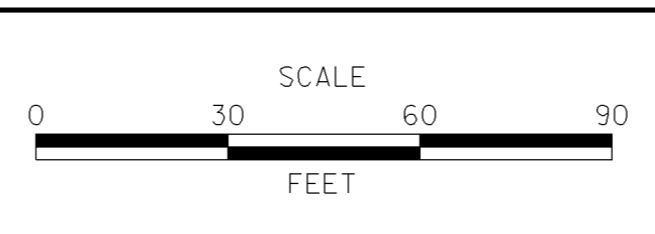


CURB SCHEDULE		
NO.	ITEM DESCRIPTION / TYPE	LENGTH
1	PCC CURB, TYPE 2	321'
2	PCC CURB, TYPE 2	341'
3	PCC CURB, TYPE 2	286'
4	PCC CURB, TYPE 2	95'



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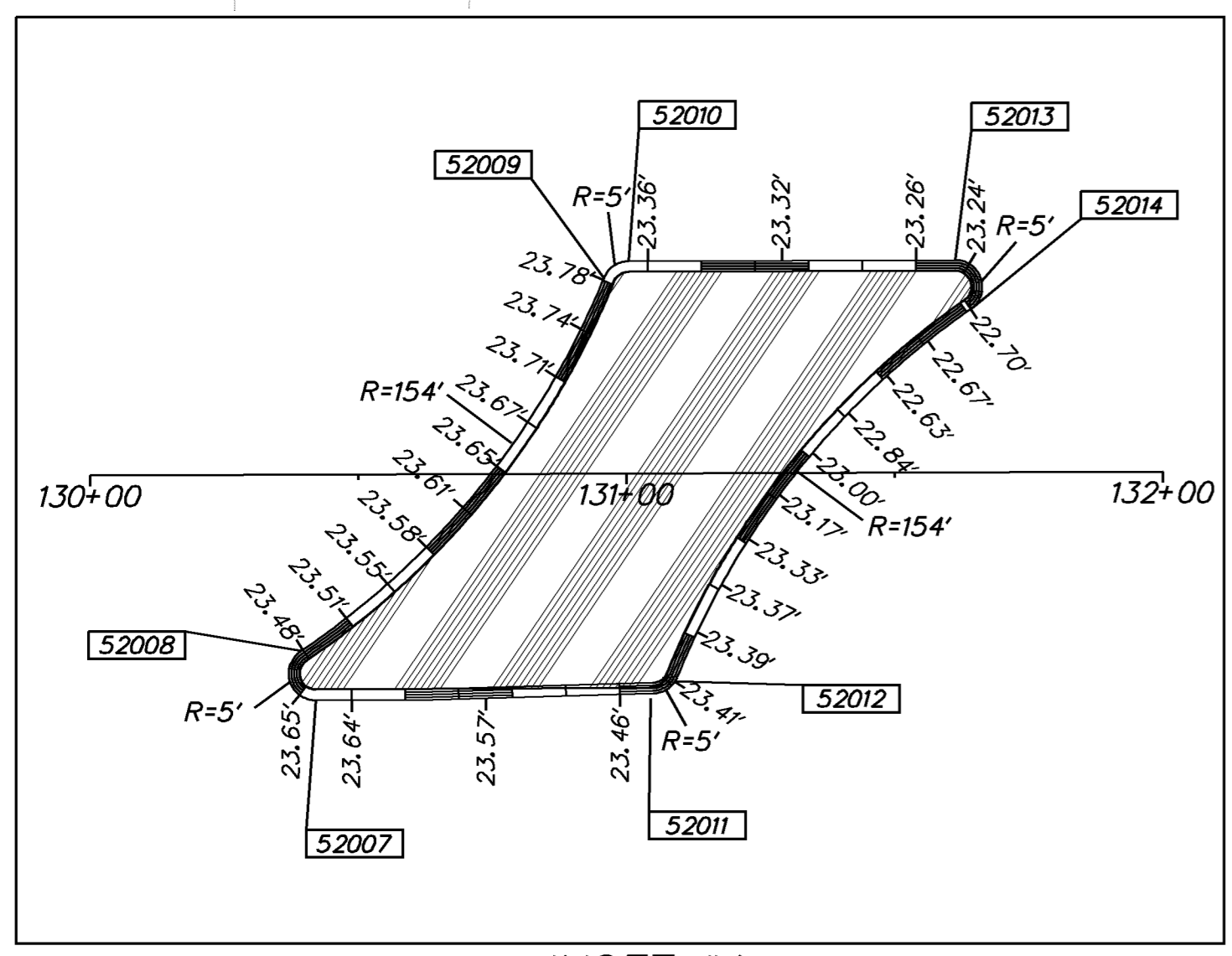
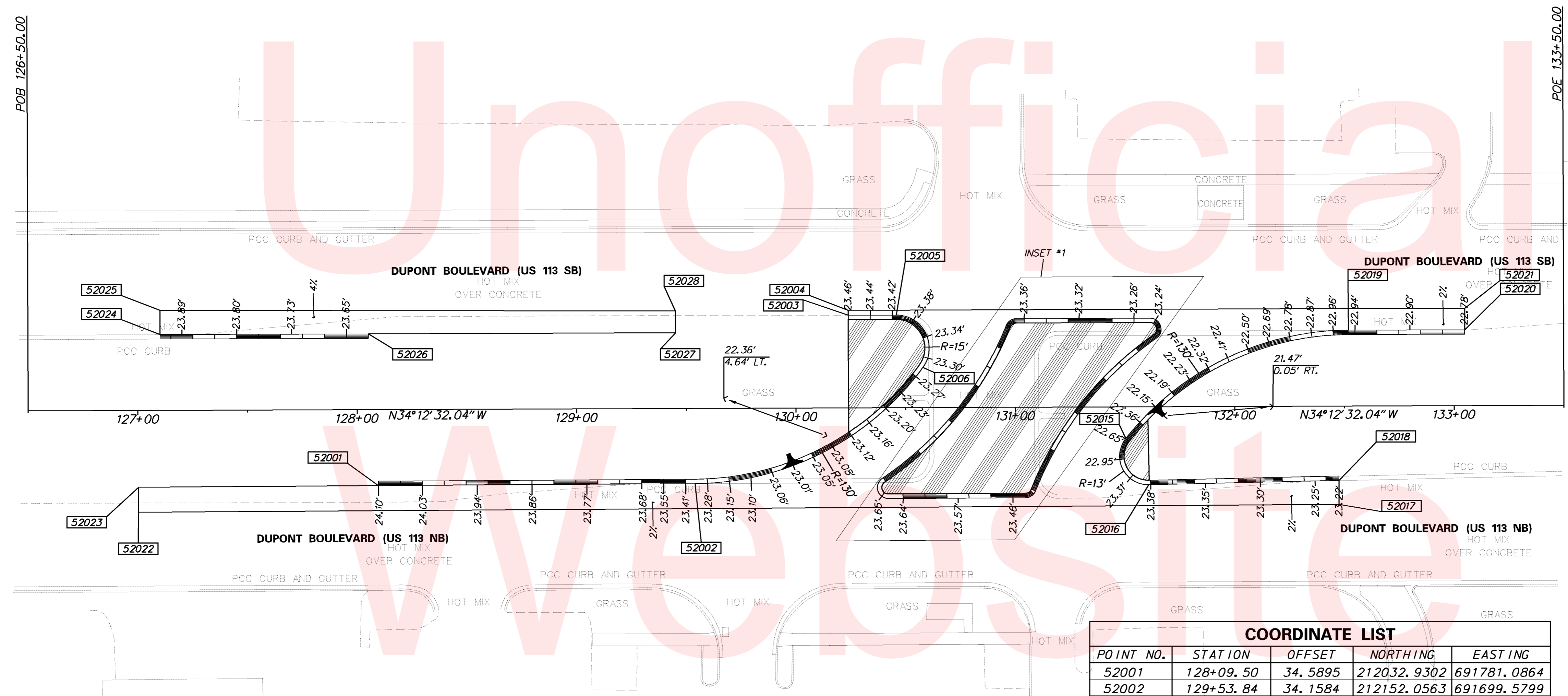
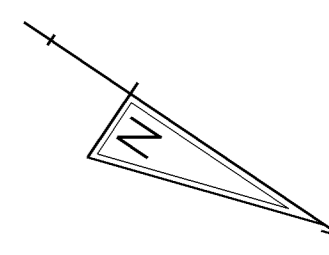
ADDENDUMS / REVISIONS



**TASK 3 - HEP SC, US113 AT
MILLSBORO TOWNE SQUARE/
1ST STREET**

CONTRACT	BRIDGE NO.	NA
T201600901	DESIGNED BY:	ANM
COUNTY	CHECKED BY:	JLC
SUSSEX		

CONSTRUCTION PLAN	SHEET NO.
	5
	TOTAL SHTS.
	11



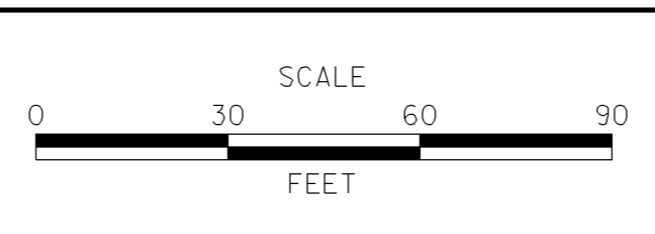
INSET #1

COORDINATE LIST				
POINT NO.	STATION	OFFSET	NORTHING	EASTING
52001	128+09.50	34.5895	212032.9302	691781.0864
52002	129+53.84	34.1584	212152.0563	691699.5799
52003	130+23.95	-42.2581	212167.0769	691596.9658
52004	130+23.96	-44.4146	212165.8659	691595.1814
52005	130+45.77	-42.2829	212185.1010	691584.6826
52006	130+57.83	-18.3405	212208.5353	691597.7024
52007	130+41.94	41.2585	212228.9033	691655.9228
52008	130+39.16	32.1044	212221.4609	691649.9132
52009	130+95.90	-37.3239	212229.3515	691560.5963
52010	131+00.53	-40.4240	212231.4329	691555.4327
52011	131+04.33	41.1654	212280.4493	691620.7679
52012	131+08.96	38.0270	212282.5101	691615.5719
52013	131+61.47	-40.4315	212281.8317	691521.1612
52014	131+64.32	-31.3185	212289.3068	691527.0988
52015	131+50.24	14.3138	212303.3220	691572.7494
52016	131+60.65	35.4163	212323.7932	691584.3497
52017	132+47.33	44.7383	212400.7176	691543.3267
52018	132+47.30	33.7931	212394.5370	691534.2934
52019	132+51.87	-34.6381	212359.8451	691475.1310
52020	133+04.92	-34.6446	212403.7114	691445.3016
52021	133+04.93	-44.4491	212398.2056	691437.1890
52022	127+00.14	46.3727	211949.1123	691852.3162
52023	127+00.10	34.9345	211942.6534	691842.8761
52024	127+10.26	-45.5498	211905.8001	691770.6084
52025	127+10.17	-34.5501	211911.9133	691779.7533
52026	128+05.17	-34.5665	211990.4684	691726.3296
52027	129+45.16	-34.5907	212106.2288	691647.6034
52028	129+45.16	-42.4312	212101.8196	691641.1201

- NOTES:
1. OFFSETS SHOWN IN THE COORDINATE LIST WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
 2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN TO EDGE OF PAVEMENT.
 3. RADIARE GIVEN TO THE EDGE OF PAVEMENT.
 4. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS AT INTERSECTIONS ARE GIVEN AT 10 FOOT INTERVALS.
 5. ALL WORK REQUIRED FOR CALCULATING AND STAKING OUT OF GRADES SHALL BE PAID FOR UNDER ITEM 763621 - CONSTRUCTION ENGINEERING.
 6. PROPOSED CURBS OR PAVEMENT THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR CURB ELEVATIONS.

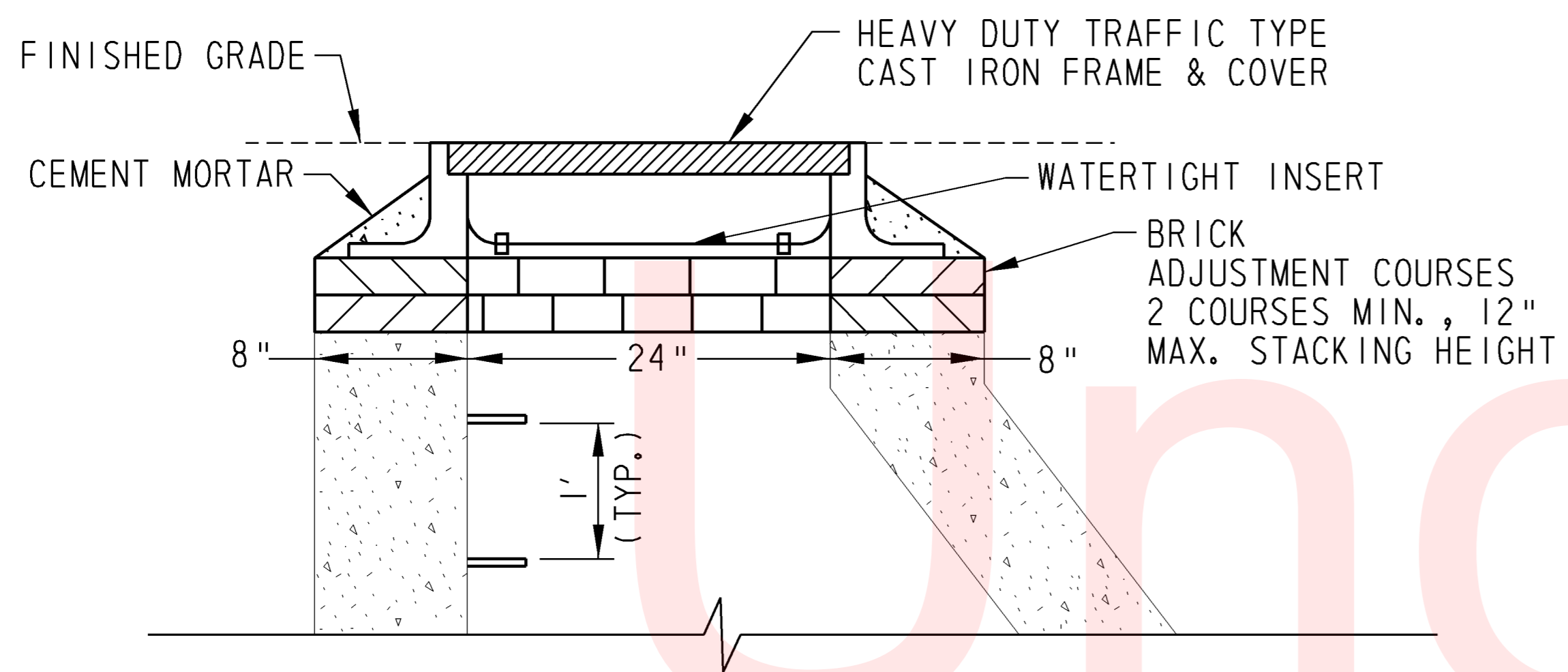
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ADDENDUMS / REVISIONS



TASK 3 - HEP SC, US113 AT MILLSBORO TOWNE SQUARE/ 1ST STREET

CONTRACT T201600901	BRIDGE NO. NA
COUNTY SUSSEX	DESIGNED BY: ANM
	CHECKED BY: JLC



**SEWER MANHOLE
VERTICAL ADJUSTMENT**

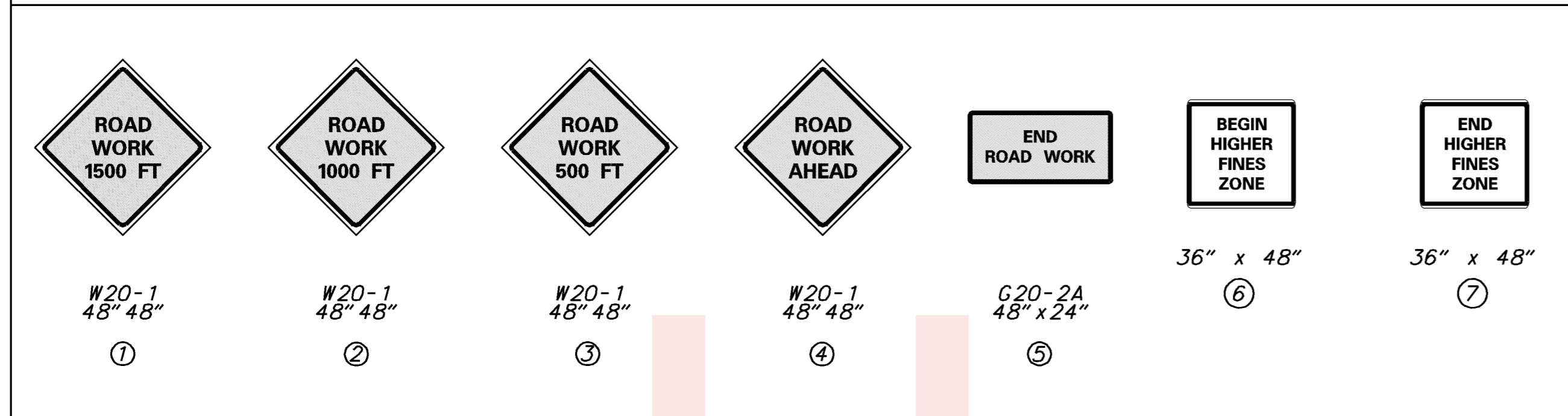
NOT TO SCALE

NOTE:

- I. ALL WORK AND MATERIALS SHOWN IN DETAIL ABOVE SHALL BE INCLUDED UNDER ITEM 710506 - ADJUST AND REPAIR EXISTING SANITARY MANHOLE.

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WARNING SIGN LEGEND

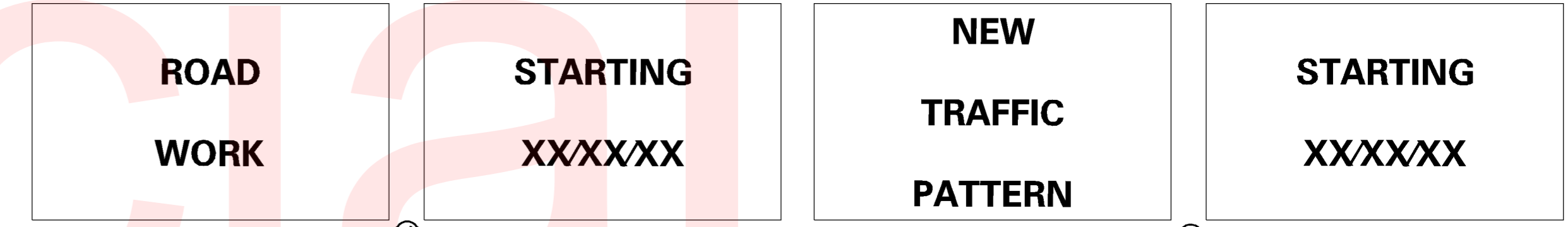
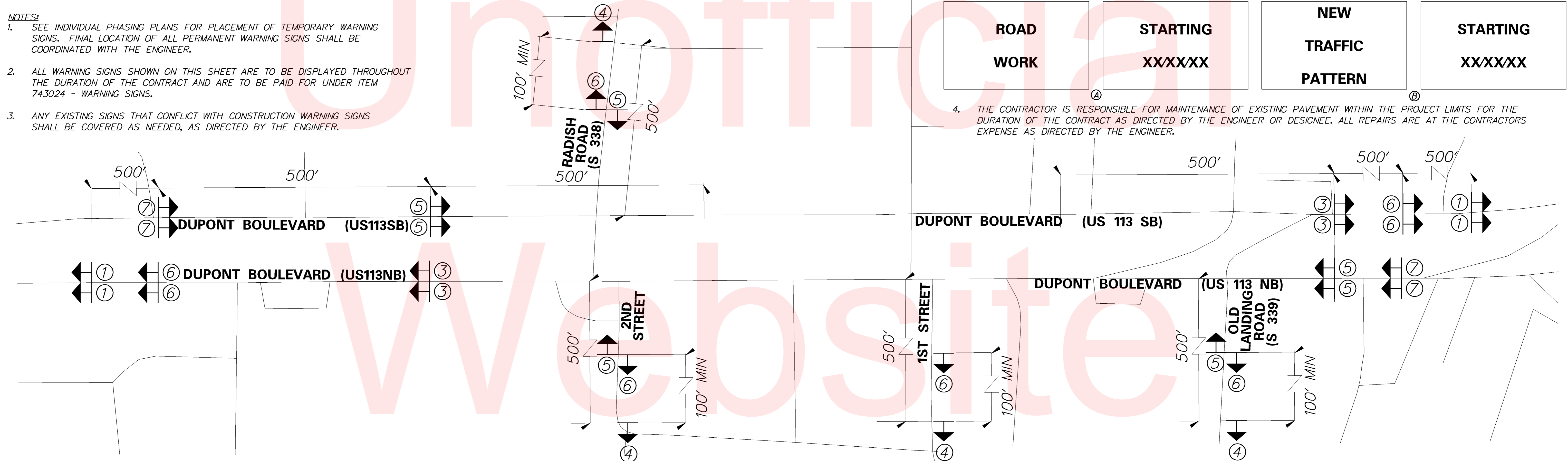


NOTES:

- SEE INDIVIDUAL PHASING PLANS FOR PLACEMENT OF TEMPORARY WARNING SIGNS. FINAL LOCATION OF ALL PERMANENT WARNING SIGNS SHALL BE COORDINATED WITH THE ENGINEER.
- ALL WARNING SIGNS SHOWN ON THIS SHEET ARE TO BE DISPLAYED THROUGHOUT THE DURATION OF THE CONTRACT AND ARE TO BE PAID FOR UNDER ITEM 743024 - WARNING SIGNS.
- ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED AS NEEDED, AS DIRECTED BY THE ENGINEER.

GENERAL MOT NOTES

- MAINTENANCE OF TRAFFIC DURING LANE CLOSURES SHALL CONFORM TO TYPICAL APPLICATION 3A, 10, AND 33 OF THE DELAWARE MUTCD.
- GRADING AND MAINTAINING HOTMIX TRM THAT IS BEING USED AS A TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO PAVEMENT SHALL BE MADE FOR TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. CONSTRUCTION OF A PLANNED RUNAROUND OR DETOUR WOULD BE ELIGIBLE FOR PAYMENT AS SPECIFIED IN THE CONTRACT.
- THE CONTRACTOR SHALL SUPPLY PORTABLE CHANGEABLE MESSAGE BOARDS (PCMS) UNDER ITEM 743004. ONE PCMS WILL BE PLACED ALONG US 113 NORTHBOUND AND SOUTHBOUND DIRECTIONS PRIOR TO THE WORK AREA. PLACEMENT SHALL BE COORDINATED WITH THE DISTRICT SAFETY OFFICER. THE PCMS'S SHOULD BE PLACED A MINIMUM OF TEN (10) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION TO REMIND ROAD USERS OF PENDING ROAD WORK AND NEW TRAFFIC PATTERNS. DISPLAY MESSAGE A FOR 10 DAYS PRIOR TO WORK THEN MESSAGE B FOR 5 DAYS AFTER. THE PCMS SHOULD HAVE THE FOLLOWING MESSAGE: MESSAGE A - ROAD WORK STARTING XX/XX/XX AND MESSAGE B - NEW TRAFFIC PATTERN STARTING XX/XX/XX.



- THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT AS DIRECTED BY THE ENGINEER OR DESIGNEE. ALL REPAIRS ARE AT THE CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER.

ALLOWABLE SINGLE LANE CLOSURES

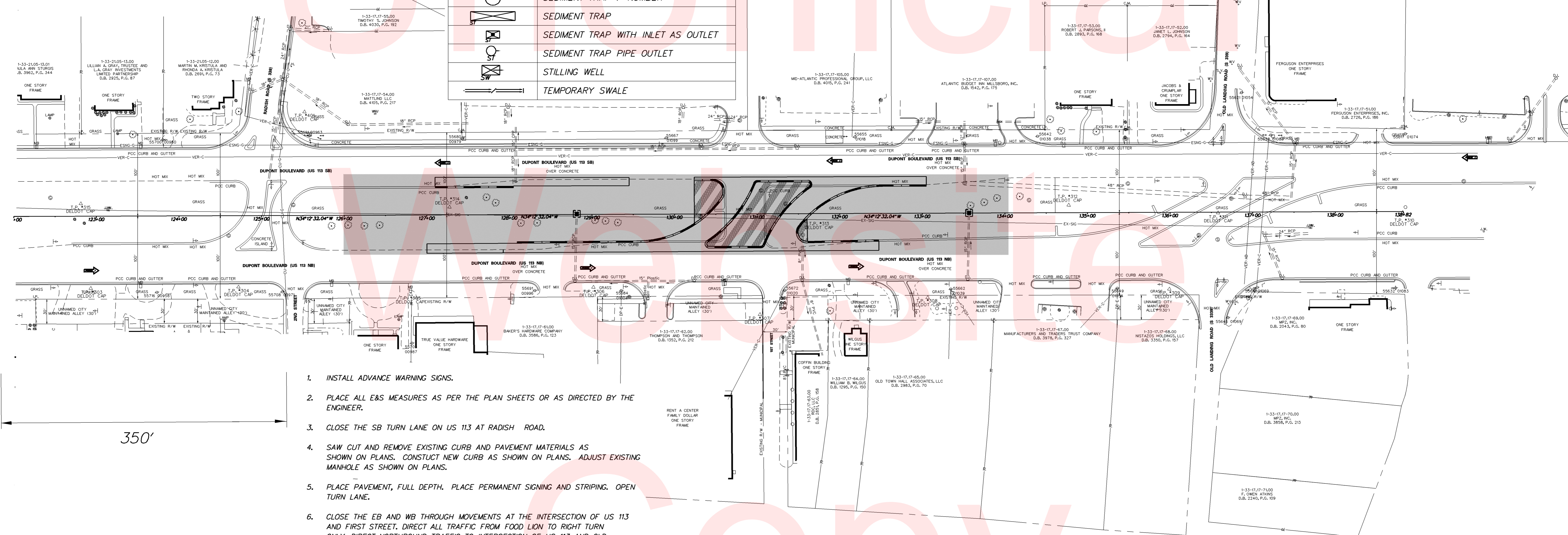
Summer Months (April - September)	Northbound US 113	8:00 P.M. to 6:00 A.M. (Monday P.M. to Friday A.M.)
	Southbound US 113	8:00 P.M. to 6:00 A.M. (Sunday P.M. to Thursday A.M.)
Non-Summer Months (October - March)	Northbound and Southbound US 113	8:00 P.M. to 6:00 A.M. (Sunday P.M. to Friday A.M.)

- THE ROADWAY AND SHOULDER WORK SHALL BE PERFORMED IN A MANNER SUCH THAT POSITIVE DRAINAGE OF THE ROADWAY SURFACE IS MAINTAINED THROUGHOUT CONSTRUCTION. ALL WORK AND MATERIALS TO PROVIDE AND MAINTAIN THIS DRAINAGE SHALL BE INCIDENTAL ITEM 743000 - MAINTENANCE OF TRAFFIC.
- THIS PROJECT IS CONSIDERED A SIGNIFICANT PROJECT AS DEFINED BY DELDOT'S WORK ZONE MOBILITY PROCEDURES AND GUIDELINES. A TYPE B TRANSPORTATION MANAGEMENT PLAN (TMP) HAS BEEN PREPARED AND IS AVAILABLE FOR VIEWING BY CONTACTING THE DEPARTMENT'S SAFETY PROGRAMS MANAGER AT (302)659-4060. ALL MONITORING REQUIREMENTS OF THE TMP SHALL BE CONDUCTED BY DELDOT FORCES UNLESS OTHERWISE DIRECTED BY THE ENGINEER. MODIFICATIONS TO THE TMP SHALL BE COMPLETED BY THE CONTRACTOR IS CHANGES TO THE TIME RESTRICTIONS OR THE TRAFFIC CONTROL PLAN ARE DESIRED. THE MODIFIED TMP SHALL BE PREPARED BY A PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF DELAWARE.
- THE ALLOWABLE TRAVEL LANE CLOSURE HOURS FOR THIS PROJECT ARE 8PM TO 6AM, SUNDAY PM THROUGH FRIDAY AM.
- CONTRACTOR SHALL COORDINATE THIS MOT PLAN WITH THE TOWN OF MILLSBORO AND THE LOCAL SCHOOL DISTRICT. CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS IN THE AREA. CONTRACTOR SHALL COORDINATE WITH SPECIAL EVENTS IN THE AREA.

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CONSTRUCTION PHASING & M.O.T	
	BARRICADE, TYPE 3
	CONCRETE SAFETY BARRIER - PORTABLE
	CONSTRUCTION SAFETY FENCE / LENGTH
	CONSTRUCTION SAFETY FENCE
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	CRASH CUSHION ARRAY
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY CONSTRUCTION
	TEMPORARY PAVEMENT MARKING ARROW
	TRUCK WITH MOUNTED ATTENUATOR
	WORK AREA - ACTIVE PHASE

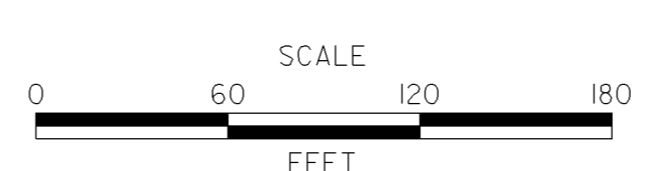
EROSION & SEDIMENT CONTROL	
	DEWATERING BAG
	DEWATERING BASIN
	EARTH DIKE
	INLET SEDIMENT CONTROL
	PERIMETER DIKE/SWALE
	PORTABLE SEDIMENT TANK
	SANDBAG DIKE
	SANDBAG DIVERSION
	STONE CHECK DAM
	STABILIZED CONSTRUCTION ENTRANCE
	SILT FENCE / LENGTH
	SILT FENCE
	SILT FENCE - REINFORCED
	SUMP PIT
	SEDIMENT TRAP / NUMBER
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE



- INSTALL ADVANCE WARNING SIGNS.
- PLACE ALL E&S MEASURES AS PER THE PLAN SHEETS OR AS DIRECTED BY THE ENGINEER.
- CLOSE THE SB TURN LANE ON US 113 AT RADISH ROAD.
- SAW CUT AND REMOVE EXISTING CURB AND PAVEMENT MATERIALS AS SHOWN ON PLANS. CONSTRUCT NEW CURB AS SHOWN ON PLANS. ADJUST EXISTING MANHOLE AS SHOWN ON PLANS.
- PLACE PAVEMENT, FULL DEPTH. PLACE PERMANENT SIGNING AND STRIPING. OPEN TURN LANE.
- CLOSE THE EB AND WB THROUGH MOVEMENTS AT THE INTERSECTION OF US 113 AND FIRST STREET. DIRECT ALL TRAFFIC FROM FOOD LION TO RIGHT TURN ONLY. DIRECT NORTHBOUND TRAFFIC TO INTERSECTION OF US 113 AND OLD LANDING ROAD. NO MEDIAN ACCESS AT TOWNE SQUARE/1ST STREET, MEDIAN SHALL REMAIN CLOSED UNTIL PROJECT COMPLETION. MAINTAIN ACCESS TO BOTH NB AND SB MOVEMENTS AT INTERSECTION OF US 113 AND RADISH ROAD/SECOND STREET AS WELL AS AT INTERSECTION OF US 113 AND OLD LANDING ROAD.
- SAW CUT AND REMOVE EXISTING CURBS AND PAVEMENT MATERIALS AS SHOWN ON PLANS. CONSTRUCT NEW CONCRETE CHANNELIZATION AS SHOWN ON PLANS AT THE INTERSECTION OF US 113 AND FIRST STREET. ADJUST EXISTING MANHOLES AS SHOWN ON PLANS.
- PLACE PAVEMENT, FULL DEPTH, PLACE PERMANENT SIGNING AND STRIPING.
- ONCE PERMANENT SIGNING IS PLACED THE MEDIAN CROSS-OVER MAY BE OPENED TO TRAFFIC. PORTABLE CHANGEABLE MESSAGE BOARDS, MESSAGE B, SHALL BE PLACED FOR 5 DAYS POST CONSTRUCTION TO INFORM TRAVELING PUBLIC OF THE NEW TRAFFIC PATTERN. MESSAGE SHALL BE APPROVED BY TRAFFIC SAFETY.
- STABILIZE MEDIAN DRAINAGE SWALES TO MATCH EXISTING GRADING, TO INCLUDE TOPSOIL AND SEEDING.
- REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER STABILIZATION IS COMPLETE.

350'

ADDENDUMS / REVISIONS



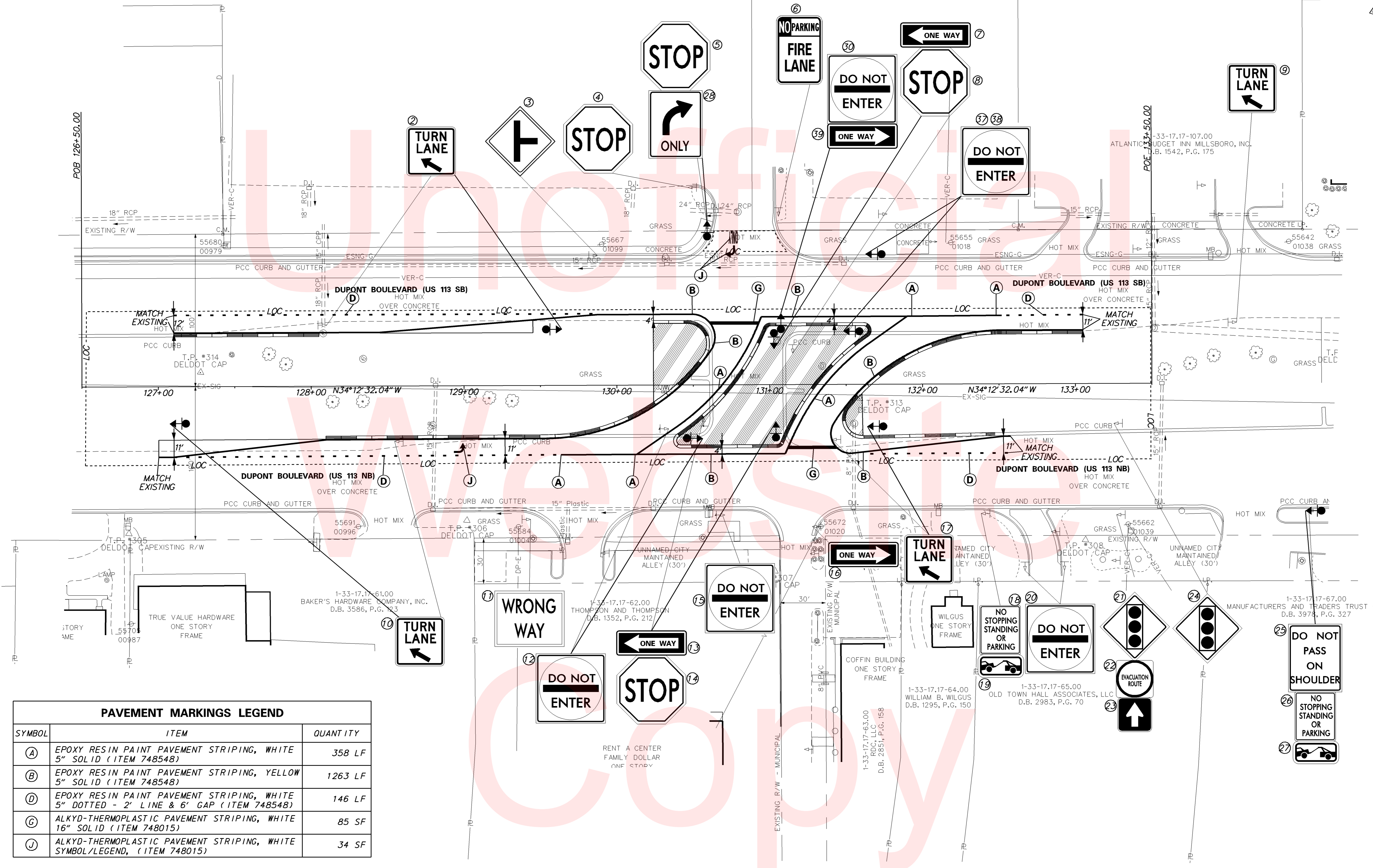
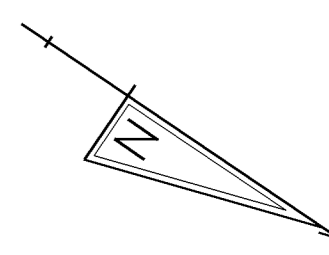
TASK 3 - HEP SC, US113 AT MILLSBORO TOWNE SQUARE/ 1ST STREET

CONTRACT	BRIDGE NO.	NA
T201600901	DESIGNED BY: ANM	
COUNTY	CHECKED BY: JLC	
SUSSEX		

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1

SHEET NO.	9
TOTAL SHTS.	11

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PAVEMENT MARKINGS LEGEND		
SYMBOL	ITEM	QUANTITY
(A)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 748548)	358 LF
(B)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID (ITEM 748548)	1263 LF
(D)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 748548)	146 LF
(G)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 748015)	85 SF
(J)	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND, (ITEM 748015)	34 SF

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