



## 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

CONSTRUCTION	
	CONCRETE SAFETY BARRIER - PERMANENT
	BIOFILTRATION SWALE
	BOLLARD - STEEL POLE
	BOLLARD - WOOD POST
	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
	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
	HORIZONTAL CLEARANCE
	IMPACT ATTENUATOR
	JUNCTION BOX - DRAINAGE
	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 - 6" (USE 8" DEPTH FOR CHANNELIZATION 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

## 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

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)	
	2" WMA, SUPERPAVE, TYPE C, 160 GYRATIONS PG 70-22 (NON-CARBONATE STONE) 8" GABC, TYPE B
	2" WMA, SUPERPAVE, TYPE C, 160 GYRATIONS PG 70-22 (NON-CARBONATE STONE) 3" SUPERPAVE, TYPE B HOT-MIX, GYRATIONS, PG 70-22 5 1/2" WMA, SUPERPAVE, BCBC, 160 GYRATIONS, PG 64-22 8" GABC, TYPE B

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, TYPE 1
	SUMP PIT, TYPE 2
	SEDIMENT TRAP
	SEDIMENT TRAP WITH INLET AS OUTLET
	SEDIMENT TRAP PIPE OUTLET
	STILLING WELL
	TEMPORARY SWALE
	TEMPORARY SLOPE DRAIN
	TURBIDITY CURTAIN / LENGTH
	TURBIDITY CURTAIN

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# GENERAL NOTES

- 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.
- THE CONTRACTOR SHALL GIVE TWO (2) WEEKS NOTICE TO THE PROPERTY OWNER WHEN ANY FIXTURE, SHRUB OR OTHER OBJECT MUST BE REMOVED FROM THE RIGHT OF WAY OR EASEMENT AREA. IF THE OWNER HAS NOT ATTEMPTED TO SALVAGE THIS PROPERTY, THE CONTRACTOR SHALL REMOVE IT WITHOUT OBLIGATION. COMPENSATION SHALL BE INCIDENTAL TO THE CONTRACT.
- THE ENDS OF ALL CURBS SHALL BE DEPRESSED FLUSH WITH THE PAVEMENT AT A RATIO OF TWELVE TO ONE (12:1) UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL PVC SLEEVES (4" INSIDE MINIMUM DIAMETER, 6" INSIDE MAXIMUM DIAMETER) IN PROPOSED CONCRETE SIDEWALKS, ISLANDS, AND MEDIANS FOR FUTURE TRAFFIC SIGN POSTS AS DIRECTED BY THE ENGINEER. THE LOWER END OF THE SLEEVE SHALL SIT ON THE TOP OF THE SUBBASE MATERIAL. THE COST SHALL BE INCIDENTAL TO THE CONTRACT.
- STAGING AREAS - PROPER EROSION AND SEDIMENT CONTROL MEASURES AS DETERMINED BY THE ENGINEER SHALL BE INSTALLED IN ALL STAGING AREAS. ALL AREAS USED BY THE CONTRACTOR FOR STAGING OPERATIONS SHALL BE FULLY RESTORED BY THE CONTRACTOR UPON COMPLETION OF THE CONTRACT. IF THE STAGING AREA IS PAVED, IT SHALL BE RESTORED TO ITS ORIGINAL CONDITION. IF THE AREA IS UNPAVED, IT SHALL BE RE-GRADED, TOPSOILED, SEEDING AND MULCHED IN ACCORDANCE WITH DELAWARE STANDARD SPECIFICATIONS 732, 734 AND 735, FOR TOPSOIL, SEED AND MULCH RESPECTIVELY, TO THE SATISFACTION OF THE ENGINEER. THE SEED SHALL ADHERE TO THE SPECIFICATIONS OF SECTION 734 FOR PERMANENT GRASS SEEDING - DRY GROUND. ALL COSTS ASSOCIATED WITH RESTORATION OF THE STAGING AREA SHALL BE AT THE CONTRACTOR'S EXPENSE. IF THE ENGINEER DETERMINES THAT A SATISFACTORY STAND OF GRASS DOES NOT EXIST AT THE TIME OF FINAL INSPECTION, ALL COSTS ASSOCIATED WITH REESTABLISHING A SATISFACTORY STAND OF GRASS SHALL BE AT THE CONTRACTOR'S EXPENSE.
- SITE REVIEWER - AN EROSION CONTROL SITE REVIEWER SHALL BE A PERSON FROM THE CONTRACTOR'S STAFF ASSIGNED TO EROSION AND SEDIMENT CONTROL IMPLEMENTATION AND MAINTENANCE AND SHALL BE REQUIRED ON SPECIFIC PROJECTS. THE NAME AND DNREC CERTIFICATION NUMBER OF EACH SITE REVIEWER SO REQUIRED SHALL BE SUBMITTED TO THE DEPARTMENT. THE NAME OF THE DELAWARE REGISTERED PROFESSIONAL ENGINEER PROVIDING DIRECTION AND SUPERVISION OF THE SITE REVIEWER, AS REQUIRED IN SECTION 12.3 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS, SHALL ALSO BE SUBMITTED TO THE DEPARTMENT. THE SITE REVIEWER REQUIREMENTS IN EFFECT ON THIS PROJECT SHALL BE MARKED WITH AN "X" BELOW:

EROSION POTENTIAL FOR THIS PROJECT	SITE REVIEWER REQUIREMENT
( ) INSIGNIFICANT	NONE
( ) MINOR	CONTRACTOR CERTIFICATION COURSE TRAINING ONLY, AS DEFINED IN SECTION 13 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( X ) MEDIUM	AT THE TIME OF BID OF THE CONTRACT, EITHER THE SUPERINTENDENT OR A SEPARATE INDIVIDUAL FROM THE CONTRACTOR'S STAFF SHALL BE A CERTIFIED CONSTRUCTION REVIEWER (CCR), AS DEFINED IN SECTION 12 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS.
( ) MAJOR	SUPERINTENDENT AND AN INDIVIDUAL FROM CONTRACTOR'S STAFF SHALL BE CCR. ONE INDIVIDUAL FROM THE CONTRACTOR'S STAFF MUST BE A CCR AT THE TIME OF BID OF THE CONTRACT. THE SUPERINTENDENT MUST BECOME A CCR WITHIN ONE YEAR AFTER THE AWARD OF CONTRACT.

- ELECTRONIC PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR INCLUDE:

( X )	NONE
( )	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
( )	RASTER FILES, IN .CAL FILE FORMAT, FOR ALL PLAN SHEETS.
( )	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.

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

( X )	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.
( )	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.

- THE DISTURBED AREA FOR THIS PROJECT IS 0.627 ACRES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERING TO THE CONSTRUCTION SITE POLLUTION PREVENTION SPECIFICATIONS AS DETAILED IN SECTION 3.6 OF THE "DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK". ALL COSTS ASSOCIATED WITH ADHERING TO THE STANDARDS SHALL BE INCIDENTAL TO THE OVERALL CONTRACT COSTS.
- THE EROSION AND SEDIMENT CONTROL PLANS HAVE BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. THE EROSION AND SEDIMENT CONTROL 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 SHALL INFORM THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION OF THE EROSION AND SEDIMENT CONTROL PLAN APPROVAL. DELDOT WILL REVIEW THE CURRENT EROSION AND SEDIMENT CONTROL PLAN AND ISSUE AN EXTENSION WITH ANY APPROPRIATE MODIFICATIONS.

# PROJECT NOTES

## SECTION 100

- 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

- ITEMS TO BE REMOVED UNDER ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
  - REMOVAL OF THE EXISTING STRUCTURE IN ITS ENTIRETY
  - REMOVAL OF EACH EXISTING SACKED RIPRAP HEADWALL
  - REMOVAL OF EXISTING GUARDRAIL
- ALL EXISTING PAVEMENT FROM STA. 1+00 TO STA. 4+75 AS SHOWN ON THE PLAN SHALL BE EXCAVATED IN ITS ENTIRETY. PAYMENT FOR HOTMIX REMOVAL UNDER ITEM 202000 - EXCAVATION AND EMBANKMENT. PAYMENT FOR REMOVAL OF CONCRETE PAVEMENT UNDER 758000.
- 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 NOIS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S TEAM SUPPORT SECTION. A COPY OF THE GENERAL PERMIT OR THE NOICAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

## SECTION 300

- 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 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 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.

- 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.
  - 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

- PORTLAND CEMENT CONCRETE
 

STRUCTURAL ELEMENTS OF PORTLAND CEMENT CONCRETE SHALL BE AS NOTED: (F'c = 28 DAY COMPRESSIVE STRENGTH)

  - PRECAST ELEMENTS (F'c = 5000 psi)
  - MIX REQUIREMENTS SHALL CONFORM TO SECTION 812 OF THE SPECIFICATIONS.
  - ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
  - ALL KEYED CONSTRUCTION JOINTS SHALL BE 2" x 4" UNLESS OTHERWISE NOTED.
  - ALL EXPOSED CONSTRUCTION JOINTS EDGES SHALL HAVE A 3/4" V-NOTCH.
- BAR REINFORCEMENT
 

REINFORCING STEEL SHALL CONFORM TO AASHTO M31 (ASTM A615), GRADE 60. ALL REINFORCING STEEL SHALL HAVE A CLEAR COVER OF 2", UNLESS OTHERWISE SPECIFIED ON THE PLANS. ALL REINFORCING STEEL SHALL BE PROTECTED WITH FUSION BONDED EPOXY. EPOXY COATED REINFORCING STEEL SHALL CONFORM TO AASHTO M284 (ASTM D3963) AND IS DENOTED WITH A SUFFIX 'E' IN THE BAR MARKS.
- LIMITS OF COARSE AGGREGATE FOR FOUNDATION STABILIZATION SHALL EXTEND 18" OUTSIDE OF THE NEAT LINE PERIMETER OF THE VERTICAL FACES OF ANY FOOTER, ENCASEMENT OR STRUCTURAL UNIT.

## SECTION 700

- ALL PAVED AREAS TO BE REPLACED OR OVERLAYED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT. ALL HOT-MIX AND CONCRETE SAWCUTTING SHALL BE FULL DEPTH, UNLESS OTHERWISE NOTED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- STRIPING
 

PROPOSED STRIPING SHALL MATCH THE EXISTING STRIPING PATTERN OF A DOUBLE YELLOW CENTERLINE AND WHITE EDGE LINES. PAYMENT FOR PERMANENT PAVEMENT STRIPING UNDER ITEM 748548.
- ALL M.O.T. ITEMS WITH THE EXCEPTION OF CHANGEABLE MESSAGE BOARDS AND FLAGGERS WILL BE INCLUDED IN ITEM 763643 - MAINTENANCE OF TRAFFIC, ALL INCLUSIVE.

## MISCELLANEOUS

- DESIGN CRITERIA
 

2010 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5TH EDITION, CUSTOMARY U.S. UNITS.  
USING AASHTO HL93 FOR LIVE LOAD, 25 psf FOR FUTURE WEARING SURFACE.
- HYDRAULIC DATA
 

PROPOSED OPENING:	59.75 SF	DESIGN FREQUENCY:	50 YEARS
DRAINAGE AREA:	1.84 sq miles	50-YEAR FLOOD ELEVATION:	39.32 ft
DESIGN DISCHARGE:	330.0 cfs		

PLEASE REFER TO THE HYDROLOGY & HYDRAULIC REPORT FOR MORE INFORMATION ON HOW THE 50-YEAR STORM ELEVATION WAS OBTAINED.
- SCOUR ANALYSIS
 

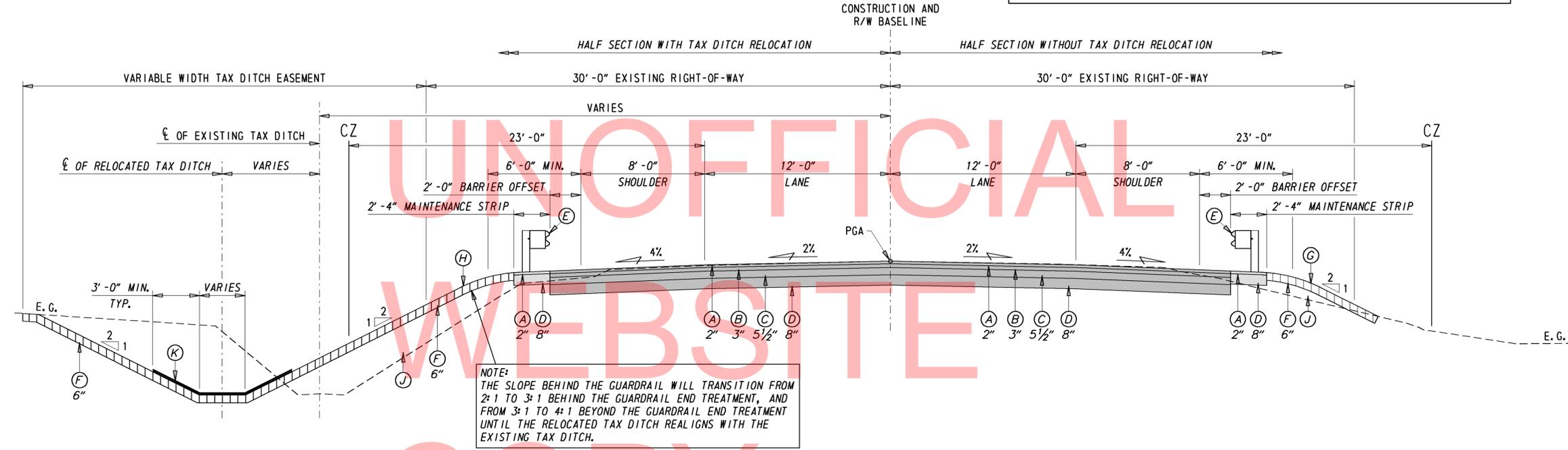
THE PROPOSED STRUCTURE HAS BEEN ANALYZED FOR THE EFFECTS OF SCOUR IN ACCORDANCE WITH HEC-14 - 'HYDRAULIC DESIGN OF ENERGY DISSIPATORS FOR CULVERTS AND CHANNELS', HEC-18 - 'EVALUATING SCOUR AT BRIDGES' AND HEC 23 - 'BRIDGE SCOUR AND STREAM INSTABILITY COUNTERMEASURES'. SCOUR COUNTERMEASURES HAVE BEEN DESIGNED FOR THE LESSER OF THE OVERTOPPING FLOOD OR THE 500-yr STORM EVENT.

DESIGN EVENT:	500 year	DESIGN VELOCITY:	8.54 fps
DESIGN DISCHARGE:	608.0 cfs	DESIGN DEPTH OF FLOW:	8.60 ft
- ENVIRONMENTAL COMPLIANCE:
 

REFER TO THE ENVIRONMENTAL COMPLIANCE PLAN FOR ANY RESTRICTIONS AND ADDITIONAL GUIDANCE THAT MAY BE ASSOCIATED TO THIS PROJECT.
- THERE ARE NO UTILITIES NOTED FOR THIS PROJECT LOCATION AND THEREFORE NONE HAVE BEEN SHOWN ON THE PLANS. HOWEVER, THE CONTRACTOR SHALL VERIFY THE ABSENCE OF ANY SUBSURFACE UTILITIES, PRIOR TO ANY EXCAVATION.
- LOAD RATINGS FOR BR 3-587 HAVE BEEN PERFORMED BY DELDOT'S BRIDGE MANAGEMENT SECTION IN ACCORDANCE WITH THE 2011 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND THE MANUAL FOR BRIDGE EVALUATION. ALL CURRENT AASHTO, DELAWARE LEGAL AND PERMIT LOADS HAVE BEEN CONFIRMED TO HAVE A MINIMUM LOAD RATING FACTOR OF 1.0 IN ACCORDANCE WITH DELDOT'S BRIDGE DESIGN MANUAL.
- TRAFFIC OFFICERS (ITEM 743007) SHALL BE UTILIZED FOR ONE WEEK AFTER THE DETOUR IS IN PLACE. AN OFFICER SHALL BE LOCATED AT BOTH BLUEBERRY LANE AND RASPBERRY ROAD WHERE EACH INTERSECTS WITH NINE FOOT ROAD (SR26). OFFICERS SHALL ENFORCE THE USE OF THE TRUCK DETOUR ROUTE BY MONITORING HEAVY AND OVERSIZE VEHICLES AND ACT TO DETER THE USE OF THESE LOCAL ROADS BY HEAVY AND OVERSIZE VEHICULAR TRAFFIC.
- BLUEBERRY LANE AND RASPBERRY ROAD SHALL BE USED AS A LOCAL DETOUR FOR SUITABLE CAR, LIGHT TRUCK AND SMALL FARM VEHICLE TRAFFIC ONLY. PRIOR TO AND AT THE COMPLETION OF THE BRIDGE REPLACEMENT, BOTH OF THE AFOREMENTIONED ROADS THAT COMPRISE THIS LOCAL DETOUR SHALL BE EVALUATED FOR THEIR CONDITION BY THE ENGINEER. ANY NOTED WEAR WHICH MAY BE CAUSED BY THE DETOUR TRAFFIC, SHALL BE REPAIRED AT THE ENGINEER'S DISCRETION. PATCHING ITEMS FOR TYPE 'B' AND 'C' SUPERPAVE (ITEMS 401822 AND 401821, RESPECTIVELY) AND WARM-MIX PATCHING (ITEM 406001) HAVE BEEN INCLUDED IN THIS CONTRACT FOR THAT PURPOSE.
- CROSS-SECTIONS USED IN THE PREPARATION OF THIS CONTRACT WILL BE MADE AVAILABLE TO THE SUCCESSFUL BIDDER FOR INFORMATIONAL PURPOSES ONLY.

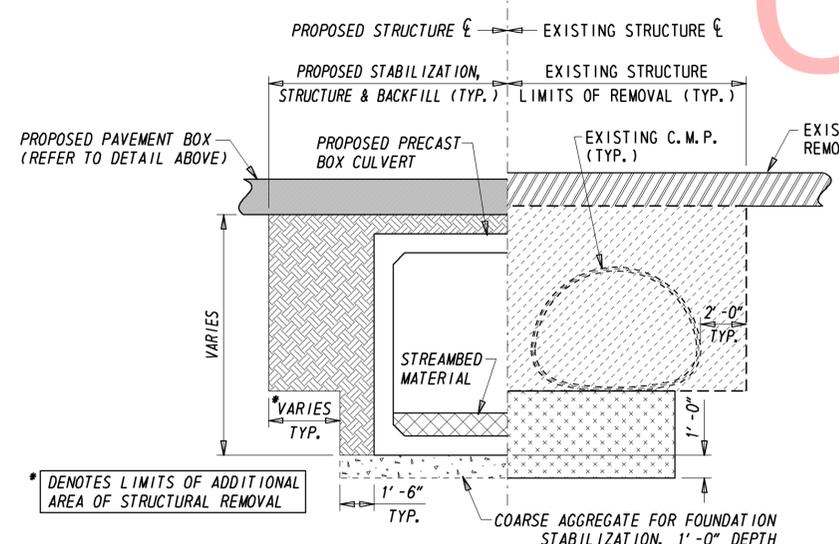
MATERIAL	LIFT THICKNESS	
	MINIMUM	MAXIMUM
WMA, TYPE 'C'	1.25"	2"
WMA, TYPE 'B'	2.25"	3"
BITUMINOUS CONCRETE BASE COURSE	3"	6"
GRADED AGGREGATE BASE COURSE	3"	8"

LEGEND	
(A)	ITEM 401830 - WMA, SUPERPAVE, TYPE C, 160 GYRATIONS, PG 70-22 (NON-CARBONARE STONE)
(B)	ITEM 401813 - WMA, SUPERPAVE, TYPE B, 160 GYRATIONS, PG 70-22
(C)	ITEM 401819 - WMA, SUPERPAVE, BITUMINOUS CONCRETE BASE COURSE 160 GYRATIONS, PG 64-22
(D)	ITEM 302007 - GRADED AGGREGATE BASE COURSE, TYPE B
(E)	ITEM 720050 - GALVANIZED STEEL BEAM GUARDRAIL, TYPE 1-31
(F)	ITEM 732004 - TOPSOIL (TON)
(G)	ITEM 734013 - PERMANENT GRASS SEEDING, DRY GROUND
(H)	ITEM 734531 - STREAMBANK SEED MIX
(J)	ITEM 209006 - BORROW, TYPE F
(K)	ITEM 735535 - SOIL RETENTION BLANKET, TYPE 5

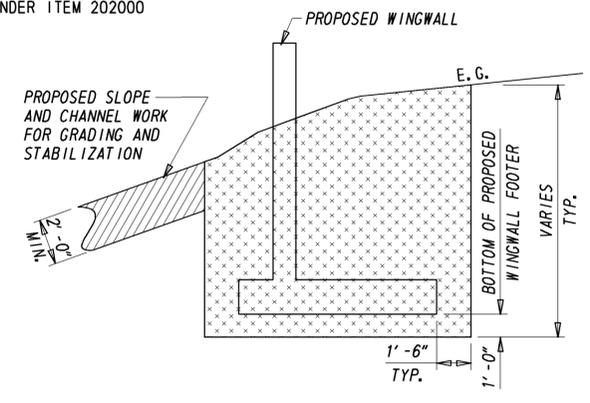


TYPICAL PROPOSED ROADWAY SECTION

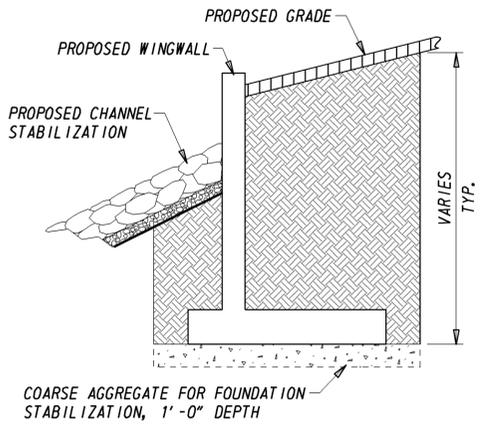
1/4" = 1'-0"



STRUCTURE REMOVAL AND PROPOSED EXCAVATION



PROPOSED WINGWALL EXCAVATION



PROPOSED WINGWALL BACKFILL

- REMOVAL OF EXISTING PAVEMENT ITEM 202000 - EXCAVATION AND EMBANKMENT
- REMOVAL OF EXISTING STRUCTURE ITEM 211000 - REMOVAL OF STRUCTURES AND OBSTRUCTIONS
- EXCAVATION FOR PROPOSED STRUCTURE ITEM 207000 - EXCAVATION AND BACKFILL FOR STRUCTURES
- BACKFILL FOR PROPOSED STRUCTURE ITEM 210000 - FURNISHING BORROW TYPE 'C' FOR STRUCTURAL BACKFILL

PAY LIMIT TYPICAL SECTIONS

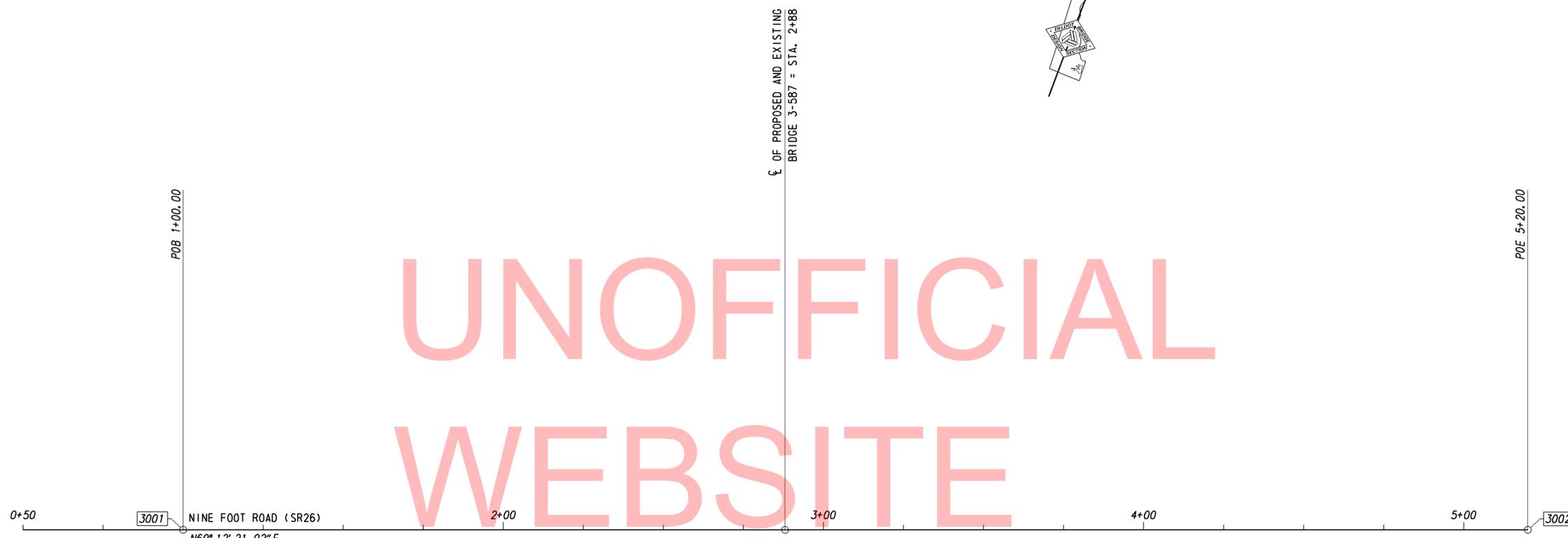
1/4" = 1'-0"

Y:\SUSSEX\026\BRIDGE\T201107302\PLANS\T.S.DGN

ADDENDUMS / REVISIONS

CONTRACT	BRIDGE NO.	<b>3-587</b>
T201107302	DESIGNED BY:	JB
COUNTY	CHECKED BY:	MG
SUSSEX		

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HORIZONTAL / VERTICAL CONTROL DATA					
POINT	STATION	OFFSET	NORTHING	EASTING	ELEVATION
TP-2	N/A	N/A	192260.83	680839.18	40.400
TP-3	3+70.47	24.69	192404.10	681227.77	40.535
TP-4	N/A	N/A	192308.21	680852.33	40.640

**DATUM REFERENCE:**

HORIZONTAL - THIS PROJECT IS REFERENCED TO THE DELAWARE STATE PLANE COORDINATE SYSTEM (NAD 83/91).

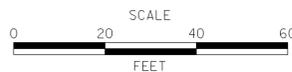
VERTICAL - THIS PROJECT IS REFERENCED TO NAVD 88 AND BASED ON THE FOLLOWING STATE OF DELAWARE BENCHMARKS ESTABLISHED BY THE DELAWARE DEPARTMENT OF TRANSPORTATION:

GPS \*NFT1, ELEVATION 40.40  
GPS \*NFTA, ELEVATION 39.23

CONSTRUCTION ALIGNMENT CONTROL				
POINT	STATION	OFFSET	NORTHING	EASTING
3001	1+00.00	0.00	192331.16	680966.15
STR CL	2+88.00	0.00	192397.90	681141.91
3002	5+20.00	0.00	192480.27	681358.79



ADDENDUMS / REVISIONS



**BRIDGE 3-587 ON SR26  
NINE FOOT ROAD OVER  
WHARTON BRANCH**

CONTRACT	BRIDGE NO.	<b>3-587</b>
T201107302	DESIGNED BY:	JB
COUNTY	CHECKED BY:	JM
SUSSEX		

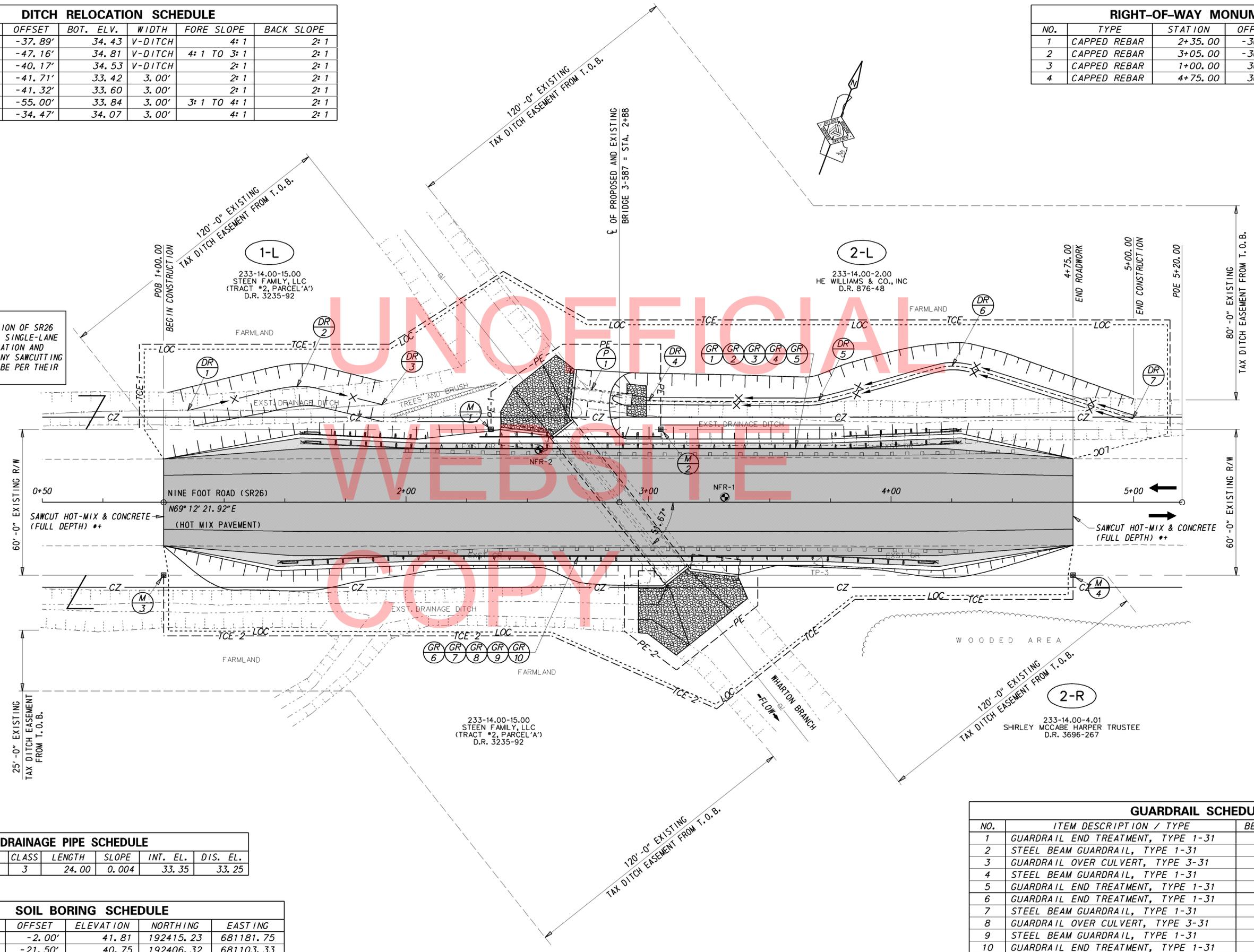
**HORIZONTAL &  
VERTICAL CONTROL**

SHEET NO.	5
TOTAL SHTS.	16

DITCH RELOCATION SCHEDULE						
NO.	STATION	OFFSET	BOT. ELV.	WIDTH	FORE SLOPE	BACK SLOPE
1	1+10.00	-37.89'	34.43	V-DITCH	4:1	2:1
2	1+55.00	-47.16'	34.81	V-DITCH	4:1 TO 3:1	2:1
3	1+90.00	-40.17'	34.53	V-DITCH	2:1	2:1
4	3+00.00	-41.71'	33.42	3.00'	2:1	2:1
5	3+70.00	-41.32'	33.60	3.00'	2:1	2:1
6	4+25.00	-55.00'	33.84	3.00'	3:1 TO 4:1	2:1
7	5+00.00	-34.47'	34.07	3.00'	4:1	2:1

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CAPPED REBAR	2+35.00	-30.00'	192407.134	681081.708
2	CAPPED REBAR	3+05.00	-30.00'	192431.985	681147.148
3	CAPPED REBAR	1+00.00	30.00'	192303.117	680976.802
4	CAPPED REBAR	4+75.00	30.00'	192436.244	681327.375

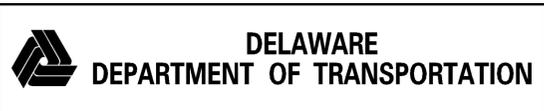
\*\* NOTE:  
 SUBSURFACE INVESTIGATION OF SR26  
 INDICATES AN EXISTING SINGLE-LANE  
 CONCRETE ROADWAY, LOCATION AND  
 THICKNESS MAY VARY. ANY SAWCUTTING  
 AND REMOVAL SHALL AS BE PER THEIR  
 RESPECTIVE PAY ITEMS.



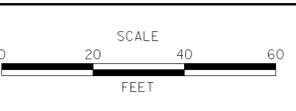
DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INT. EL.	DIS. EL.
1	48" R.C.P.	3	24.00	0.004	33.35	33.25

SOIL BORING SCHEDULE				
NO.	STATION	OFFSET	ELEVATION	EASTING
NFR#1	3+31.40	-2.00'	41.81	192415.23
NFR#2	2+54.93	-21.50'	40.75	192406.32

GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	GUARDRAIL END TREATMENT, TYPE 1-31	1+58.36	-24', -22'	50.00
2	STEEL BEAM GUARDRAIL, TYPE 1-31	2+05.23	-22.00'	25.00
3	GUARDRAIL OVER CULVERT, TYPE 3-31	2+30.23	-22.00'	75.00
4	STEEL BEAM GUARDRAIL, TYPE 1-31	3+05.23	-22.00'	75.00
5	GUARDRAIL END TREATMENT, TYPE 1-31	3+80.23	-22', -24'	50.00
6	GUARDRAIL END TREATMENT, TYPE 1-31	1+48.88	24', 22'	50.00
7	STEEL BEAM GUARDRAIL, TYPE 1-31	1+95.77	22.00'	75.00
8	GUARDRAIL OVER CULVERT, TYPE 3-31	2+70.77	22.00'	75.00
9	STEEL BEAM GUARDRAIL, TYPE 1-31	3+45.77	22.00'	25.00
10	GUARDRAIL END TREATMENT, TYPE 1-31	3+70.77	22', 24'	50.00



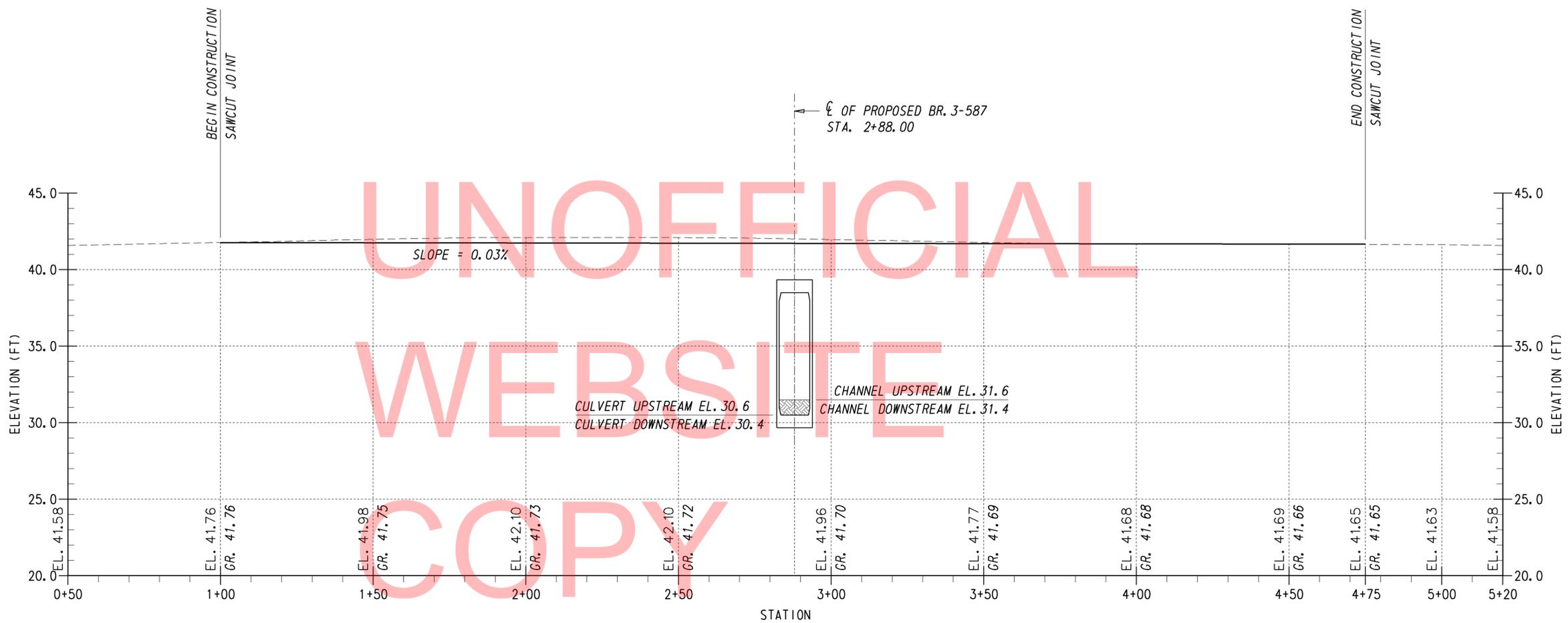
ADDENDUMS / REVISIONS



**BRIDGE 3-587 ON SR26  
 NINE FOOT ROAD OVER  
 WHARTON BRANCH**

CONTRACT	BRIDGE NO.	<b>3-587</b>
T201107302	DESIGNED BY:	JB
SUSSEX	CHECKED BY:	JM

<b>CONSTRUCTION PLAN</b>	SHEET NO.	6
	TOTAL SHTS.	16

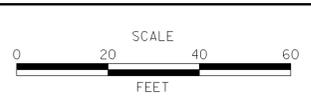


**NINE FOOT ROAD (SR26)**



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ADDENDUMS / REVISIONS	

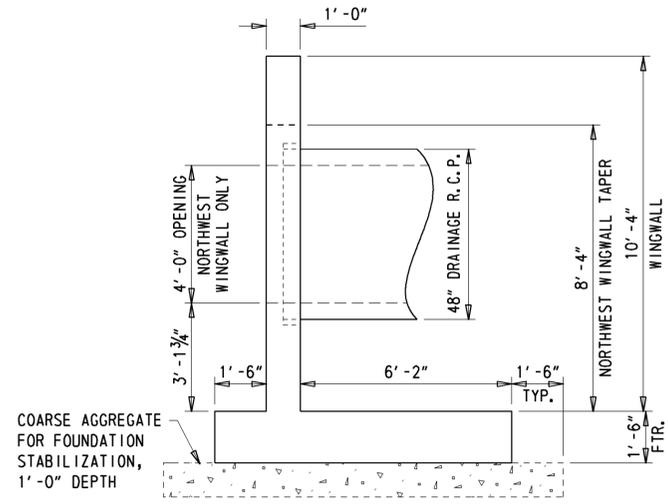
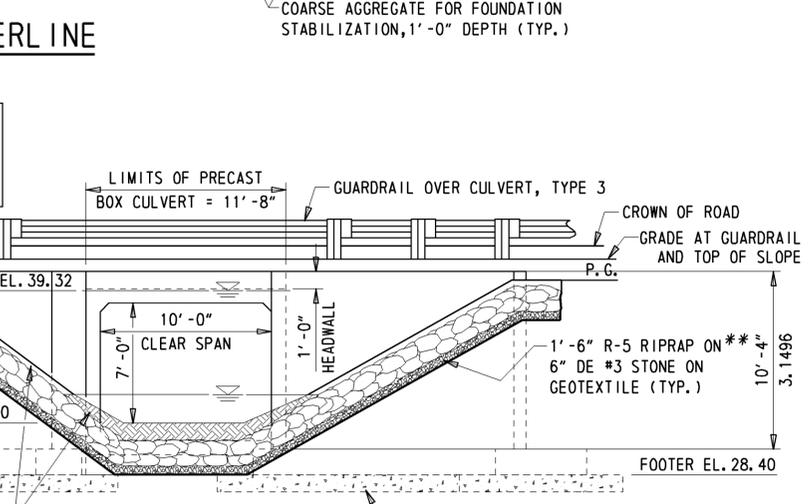
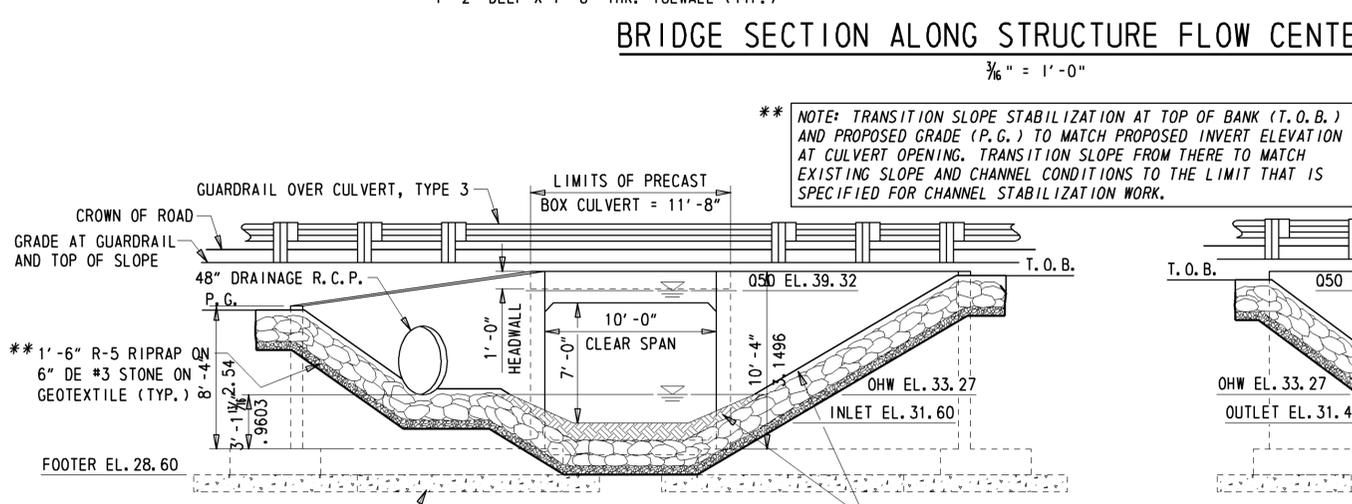
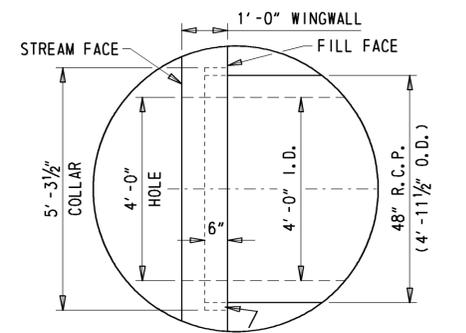
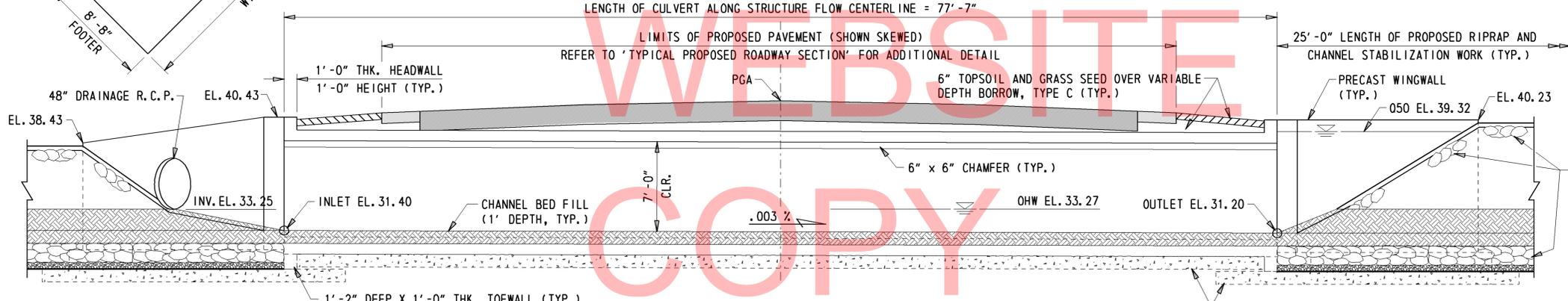
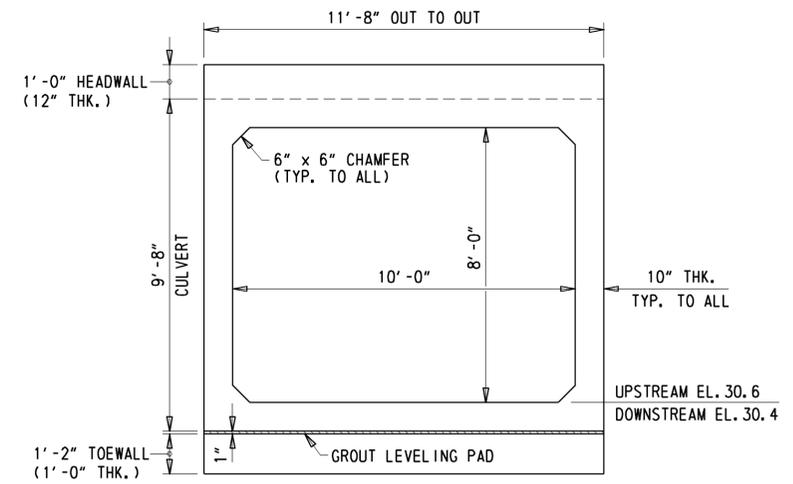
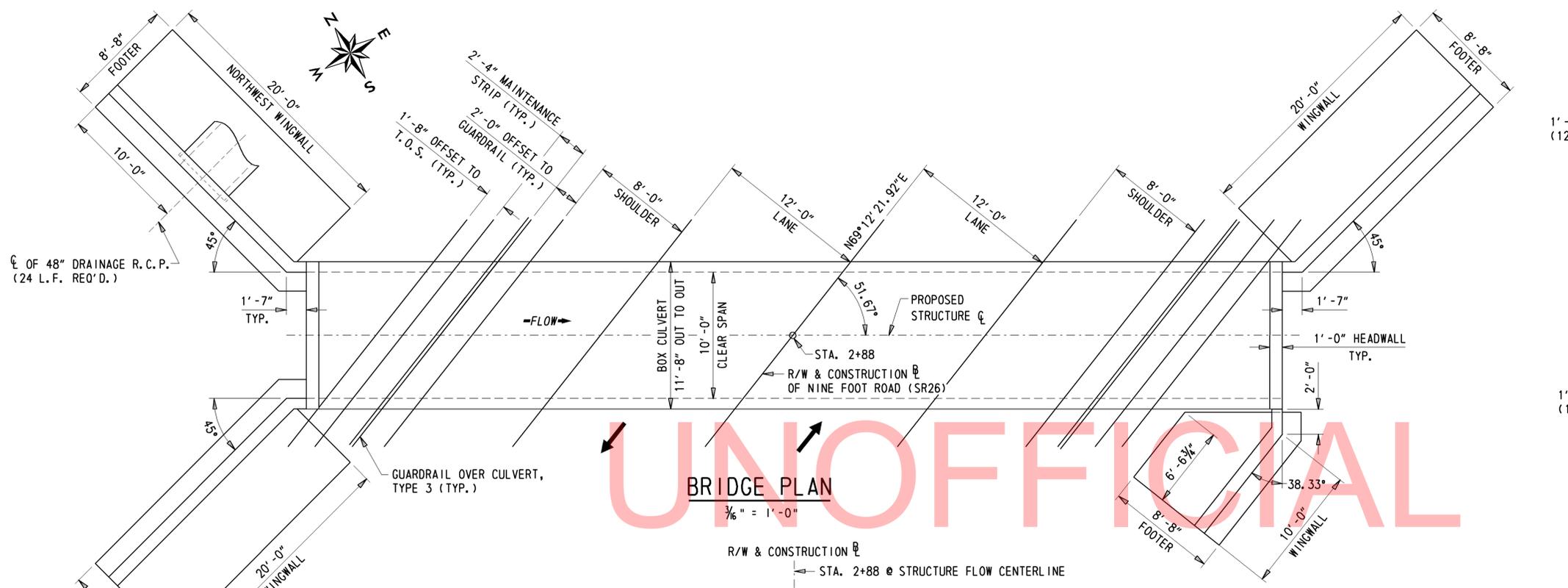


**BRIDGE 3-587 ON SR26  
NINE FOOT ROAD OVER  
WHARTON BRANCH**

CONTRACT	BRIDGE NO.	<b>3-587</b>
T201107302	DESIGNED BY:	JB
COUNTY	CHECKED BY:	JM
SUSSEX		

**PROFILE SHEET**

SHEET NO.	7
TOTAL SHTS.	16

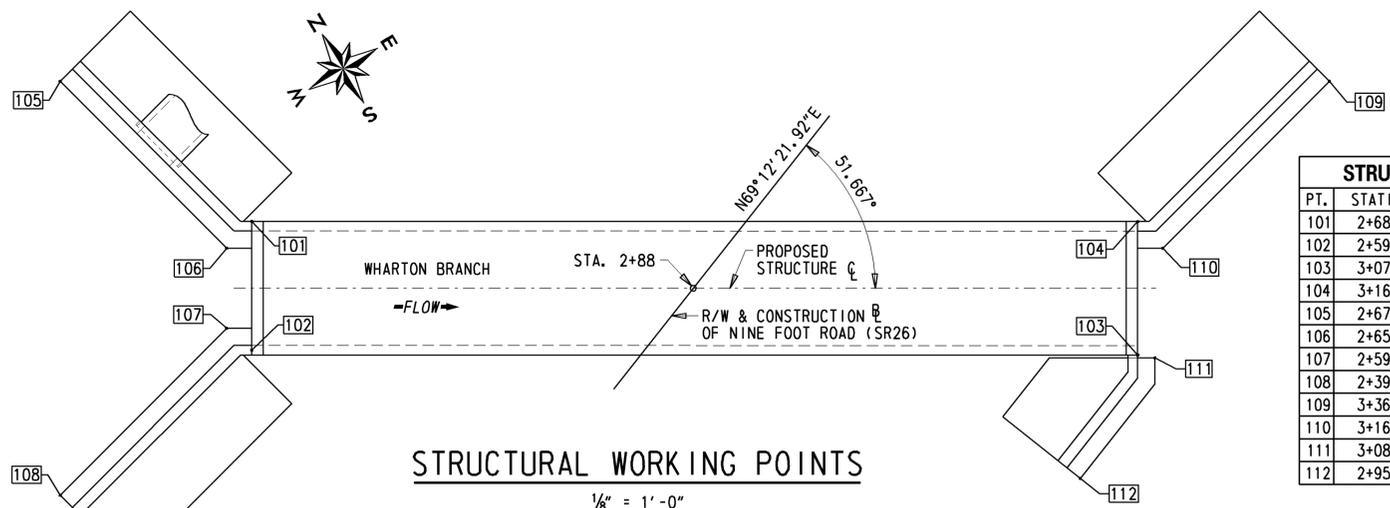


UNOFFICIAL WEBSITE COPY

\*\* NOTE: TRANSITION SLOPE STABILIZATION AT TOP OF BANK (T.O.B.) AND PROPOSED GRADE (P.G.) TO MATCH PROPOSED INVERT ELEVATION AT CULVERT OPENING. TRANSITION SLOPE FROM THERE TO MATCH EXISTING SLOPE AND CHANNEL CONDITIONS TO THE LIMIT THAT IS SPECIFIED FOR CHANNEL STABILIZATION WORK.

REFER TO 'ENVIRONMENTAL COMPLIANCE PLAN' - NOTE 4 FOR GUIDANCE ON STREAM RESTORATION AND RIPRAP SLOPE TREATMENT.

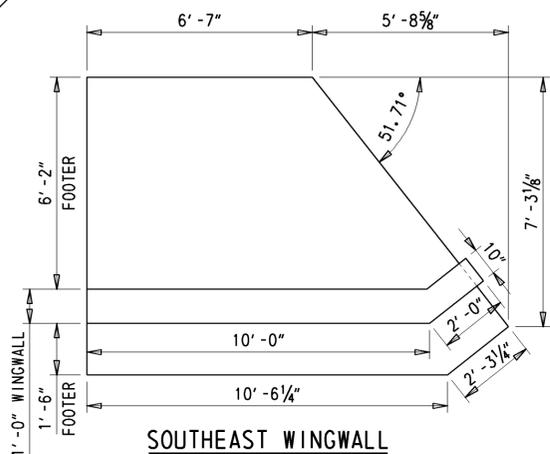
UPSTREAM AND DOWNSTREAM END ELEVATION VIEWS ARE SHOWN PERPENDICULAR TO FACE OF PROPOSED CULVERT



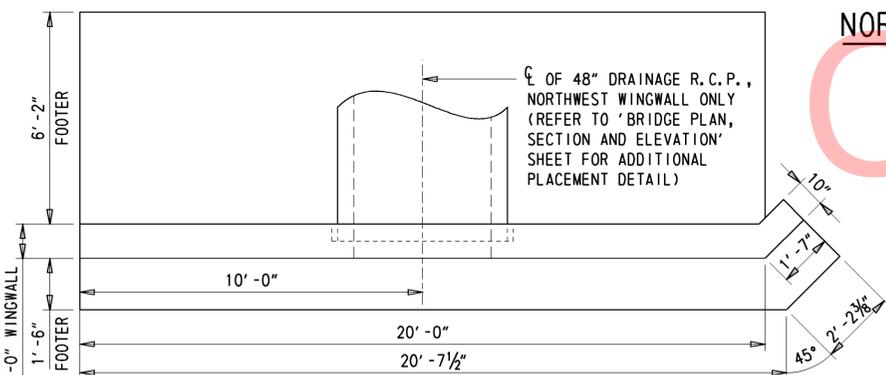
STRUCTURAL WORKING POINTS				
PT.	STATION	OFFSET	NORTHING	EASTING
101	2+68.65	-34.15	192422.959	681111.693
102	2+59.24	-26.71	192412.660	681105.535
103	3+07.35	34.15	192372.848	681172.118
104	3+16.76	26.71	192383.148	681178.276
105	2+67.85	-54.91	192442.085	681103.574
106	2+65.45	-34.43	192422.087	681108.606
107	2+59.70	-29.88	192415.793	681104.842
108	2+39.22	-32.28	192410.761	681084.844
109	3+36.78	32.28	192385.047	681198.967
110	3+16.30	29.88	192380.015	681178.969
111	3+08.08	35.41	192371.864	681173.277
112	2+95.78	36.89	192366.180	681162.276

**STRUCTURAL WORKING POINTS**

1/8" = 1'-0"



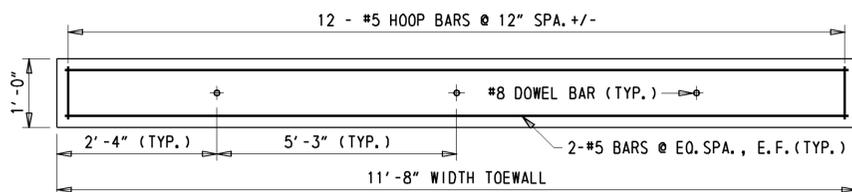
**SOUTHEAST WINGWALL**



**NORTHEAST, NORTHWEST & SOUTHWEST WINGWALLS**

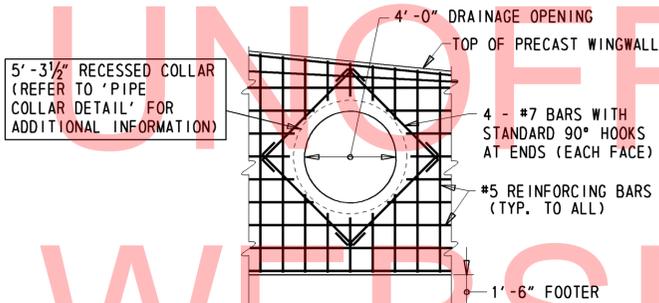
**PRECAST WINGWALL PLAN DETAILS**

3/8" = 1'-0"



**TYPICAL PRECAST TOEWALL PLAN**

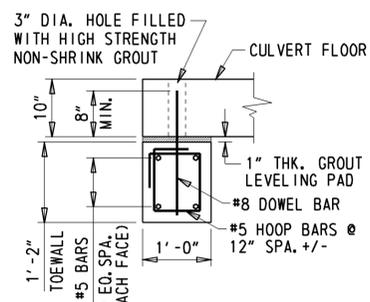
3/4" = 1'-0"



1. ALL VERTICAL AND HORIZONTAL CULVERT REINFORCEMENT SHALL EXTEND TO WITHIN 2" OF PROPOSED DRAINAGE OPENING.
2. REFER TO 'PROPOSED BRIDGE PLAN, SECTION AND ELEVATION' SHEET FOR ADDITIONAL INFORMATION REGARDING PROPOSED DRAINAGE PIPE LOCATIONS AND ELEVATIONS.

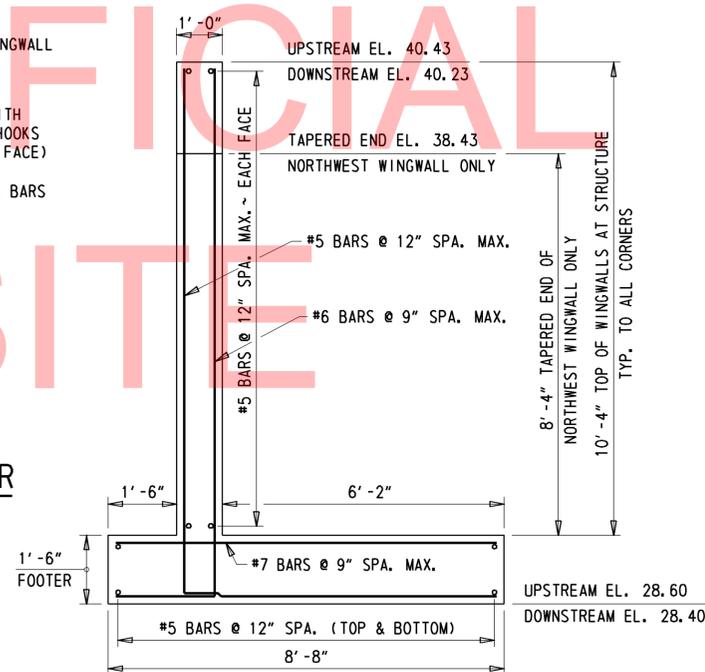
**NORTHWEST WINGWALL PIPE COLLAR REINFORCEMENT DETAIL**

1/4" = 1'-0"



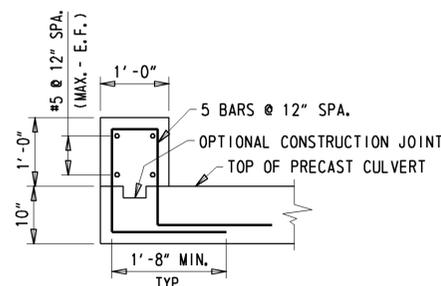
**TYPICAL PRECAST TOEWALL SECTION**

3/4" = 1'-0"



**TYPICAL PRECAST WINGWALL SECTION**

1/2" = 1'-0"



**TYPICAL PRECAST HEADWALL SECTION**

3/4" = 1'-0"

**PRECAST ELEMENT NOTES:**

1. DESIGN PLANS / WORKING DRAWINGS  
INFORMATION PERTAINING TO THE PRECAST REINFORCED CONCRETE BOX CULVERT AND WINGWALL SECTIONS IS INTENDED TO SERVE AS AN INDICATION OF THE TYPE OF CONSTRUCTION ACCEPTABLE FOR USE. THE CONTRACTOR WILL BE REQUIRED TO PREPARE AND SUBMIT FOR APPROVAL. A COMPLETE SET OF DETAILED SHOP DRAWINGS FOR THE PRECAST CONCRETE UNITS THEY PROPOSE TO FURNISH. THE SHOP DRAWINGS SHALL INCLUDE:  
A. AN OVERALL PLAN SHOWING ALL UNITS TOGETHER AND DETAILS OF EACH TYPE OF UNIT.  
B. A PLAN VIEW OF REINFORCEMENT FOR ANY IRREGULAR SHAPED SECTIONS (SKEWED, ETC.).  
C. REINFORCING BAR LIST  
D. BILL OF MATERIALS INCLUDING ALL ACCESSORIES  
E. METHOD AND SEQUENCE OF POST-TENSIONING
2. PRECAST ELEMENTS, ACCESSORIES AND INSTALLATION  
PAYMENT FOR ITEM 602736 - PRECAST CONCRETE CULVERT AND ITEM 602738 - PRECAST CONCRETE RETAINING WALL SHALL INCLUDE:  
A. ALL PRECAST ELEMENTS FOR THE RESPECTIVE ITEM (BOX CULVERT, FOOTERS, TOEWALLS UNDER ITEM 602736 AND WINGWALLS UNDER ITEM 602738).  
B. ALL ASSOCIATED REINFORCEMENT.  
C. ALL ACCESSORIES (INCLUDING, BUT NOT LIMITED TO, WEEP HOLES, CONCRETE FINISH, POST-TENSIONING TENDONS, CONNECTION PLATES, GROUT, JOINT WRAP, THREADED INSERTS) MENTIONED IN THE FOLLOWING NOTES UNLESS NOTED OTHERWISE.  
D. DELIVERY AND INSTALLATION OF ALL PRECAST ELEMENTS AND ALL ACCESSORIES
3. MISCELLANEOUS CONCRETE NOTES  
A. ALL EXPOSED SURFACES SHALL BE PROTECTED WITH A WATER MISCIBLE, PENETRATING SILANE SEALER.  
B. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
4. BOX CULVERT POST-TENSIONING  
THE PRECAST BOX CULVERT SECTIONS SHALL BE POST-TENSIONED TOGETHER WITH A MINIMUM OF FOUR POST-TENSIONING TENDONS. THE BOX CULVERT SHALL BE POST-TENSIONED SUCH THAT THE NEOPRENE GASKETS ARE COMPRESSED ALL AROUND AND THERE IS A 1/2" MAXIMUM GAP BETWEEN SECTIONS. MAXIMUM POST-TENSIONING FORCE SHALL BE 28,900 lbs. POST-TENSIONING DETAILS (PLACEMENT, SEQUENCE OF TENSIONING, ETC.) SHALL BE SHOWN IN THE SUBMITTED SHOP DRAWINGS. ALL POCKETS AND DUCTS FOR POST-TENSIONING DUCTS SHALL BE FILLED WITH NON-SHRINK GROUT. ALTERNATIVE METHODS FOR TIGHTLY JOINING BOX CULVERT SECTIONS MAY BE CONSIDERED. HOWEVER, DELAYS DUE TO REJECTED METHODS WILL NOT BE ACCEPTED.
5. WINGWALL CONNECTIONS  
A. THE PRECAST WINGWALL SECTIONS SHALL BE POST TENSIONED TOGETHER AND POSITIVELY CONNECTED TO THE BOX CULVERT WITH A MINIMUM OF TWO POST-TENSIONING TENDONS. POST-TENSIONING SHALL BE AS PER NOTE 4.  
B. AT LOCATIONS WHERE POST TENSIONING OF THE WINGWALLS IS NOT FEASIBLE, A BOLTED CONNECTION MAY BE USED. BOLTED CONNECTION DETAILS SHALL BE SHOWN IN THE SUBMITTED SHOP DRAWINGS. THE BOLTED CONNECTION MUST CONSIST OF A MINIMUM OF TWO ~ 3'-0" WIDE x 2'-0" TALL x 1/4" THICK PLATES PER JOINT WITH AT LEAST FOUR 3/4" BOLTS PER PLATE. ANGLED PLATES SHALL HAVE 8 BOLTS. SLOTTED HOLES IN THE PLATE SHALL NOT BE PERMITTED. HOLES FOR ANCHOR BOLTS MAY BE FIELD DRILLED.
6. JOINTS BETWEEN PRECAST SECTIONS  
A. NEOPRENE GASKETS SHALL BE PROVIDED AT THE JOINTS BETWEEN ALL PRECAST UNITS IN ORDER TO MAKE THE JOINTS WATERTIGHT. AFTER INSTALLATION, THE GASKETS SHALL BE COMPRESSED SUCH THAT GAPS ARE NOT VISIBLE.  
B. ALL JOINTS BETWEEN PRECAST BOX CULVERT SECTIONS SHALL BE TONGUE AND GROOVE.  
C. ALL WINGWALL TO WINGWALL AND WINGWALL TO BOX CULVERT JOINTS SHALL HAVE A SHEAR KEY.  
D. THE LOCATIONS OF THE JOINTS IN THE BOX CULVERT SHALL BE DETERMINED BY THE PRECASTER AND SUBMITTED IN THE SHOP DRAWINGS FOR APPROVAL.  
E. THE REINFORCEMENT SHALL HAVE 2" COVER AT THE END OF EACH SECTION AND MEET OR EXCEED THE MINIMUM AREA OF STEEL PER FOOT DENOTED IN THE PLANS.  
F. ALL JOINT EXTERIORS SHALL BE COVERED WITH A MINIMUM 9" WIDE WRAP CENTERED ON THE JOINT AS PER THE SPECIAL PROVISION FOR ITS RESPECTIVE ITEM.
7. TOEWALLS  
A. TOEWALLS SHALL BE PLACED BENEATH THE BOTTOM SLAB OF THE CULVERT AT THE INLET AND OUTLET AND CONNECTED BY DOWELS GROUTED INTO THE BOTTOM SLAB AS SHOWN.  
B. THE 1" GROUT LEVELING PAD SHALL BE PLACED IMMEDIATELY PRIOR TO PLACEMENT OF THE CULVERT SECTION.  
C. COARSE AGGREGATE PLACED BENEATH THE CULVERT SHALL BE CONTAINED IN PLACE BY FORMWORK OR OTHER ACCEPTABLE MEANS WHILE ADJACENT EXCAVATIONS (I.E., INSTALLATION OF WINGWALLS) ARE COMPLETED. ANY VOIDS BETWEEN THE BOTTOM SLAB OF THE CULVERT AND THE COARSE AGGREGATE SHALL BE FILLED WITH FLOWABLE FILL PRIOR TO ANY BACKFILLING.

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BORING: NFR-1		DATE DRILLED: 12/15/2010			
STATION:	OFFSET:	ELEVATION:	NORTHING: 192415.23	EASTING: 681181.75	
COMMENTS: N/A					
SAMPLE INFORMATION					
NO.	DEPTH	BLOWS /6"	DESCRIPTION	CLASS /G.I.	REMARKS
	0.0		NO SAMPLING		
	2.0				
1	2.0	5	WET LOOSE BLACK SILTY FINE SAND W/SOME COARSE SAND AND FINE GRAVEL.	A-2-4(0)	
		3			
		3			
	4.0	3			
2	4.0	4	WET LOOSE BLACK SILTY FINE SAND W/SOME COARSE SAND, TRACE OF FINE GRAVEL.	A-2-4(0)	
		4			
		6			
	6.0	8			
3	6.0	8	WET MEDIUM DENSE GRAY FINE SAND W/SOME COARSE SAND AND SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
		8			
		7			
	8.0	13			
4	8.0	9	WET MEDIUM DENSE GRAY FINE SAND W/SOME COARSE SAND AND SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
		15			
		12			
	10.0	14			
5	10.0	14	WET DENSE GRAY FINE SAND W/SOME COARSE SAND, TRACE OF SILT.	A-3	
		15			
		19			
	12.0	22			
6	12.0	12	WET MEDIUM DENSE GRAY SILTY FINE SAND W/SOME COARSE SAND, TRACE OF FINE GRAVEL.	A-2-4(0)	
		15			BOTTOM OF STONE FOR CULVERT
		15			
	14.0	9			
7	14.0	2	WET MEDIUM DENSE GRAY FINE SAND W/SOME SILT AND COARSE SAND, TRACE OF FINE GRAVEL.	A-2-4(0)	
		11			BOTTOM OF STONE FOR WINGWALLS
		5			
	16.0	3			
8	16.0	5	WET MEDIUM DENSE GRAY SILTY FINE TO COARSE SAND W/TRACE OF FINE GRAVEL.	A-2-4(0)	
		11			
		13			
	18.0	12			
9	18.0	12	WET VERY STIFF GRAY CLAYEY FINE SANDY SILT W/SOME FINE GRAVEL, TRACE OF COARSE SAND.	A-4(0)	
		10			
		15			
	20.0	15			
10	23.0	3	WET VERY LOOSE GRAY FINE SAND W/SOME SILT, TRACE OF COARSE SAND.	A-2-4(0)	
		1			
		3			
	25.0	2			
11	28.0	W/H	WET SOFT GRAY SILTY FINE GRAVELLY CLAY W/SOME FINE SAND.	A-6(5)	
		1			
		3			
	30.0	12			
12	33.0	8	WET MEDIUM DENSE GRAY FINE TO COARSE SAND W/SOME SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
		8			
		10			
	35.0	11			
13	38.0	3	WET MEDIUM DENSE GRAY FINE TO COARSE SAND W/SOME SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
		4			
		4			
	40.0	6			
14	43.0	9	WET MEDIUM DENSE GRAY COARSE TO FINE SAND W/TRACE OF SILT AND FINE GRAVEL.	A-1-B	
		9			
		8			
	45.0	8			
15	48.0	5	WET MEDIUM DENSE GRAY COARSE SAND W/SOME FINE SAND AND FINE GRAVEL, TRACE OF SILT.	A-1-B	
		6			
		7			
	50.0	7			
	50.0		END OF BORING		

BORING: NFR-2		DATE DRILLED: 12/15/2010			
STATION:	OFFSET:	ELEVATION:	NORTHING: 192406.32	EASTING: 681103.33	
COMMENTS: N/A					
SAMPLE INFORMATION					
NO.	DEPTH	BLOWS /6"	DESCRIPTION	CLASS /G.I.	REMARKS
1	0.0		NO SAMPLING		
	2.0				
2	2.0	6	WET LOOSE DARK BROWN FINE SAND W/SOME COARSE SAND AND SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
		5			
		3			
	4.0	3			
3	4.0	2	SATURATED LOOSE DARK BROWN FINE TO COARSE SAND W/SOME FINE GRAVEL AND ORGANIC MATTER, TRACE OF SILT.	A-3	
		3			
		2			
	6.0	3			
4	6.0	8	SATURATED MEDIUM DENSE TAN FINE SAND W/SOME COARSE SAND, FINE GRAVEL AND SILT.	A-2-4(0)	
		6			
		7			
	8.0	6			
5	8.0	4	SATURATED VERY STIFF TAN SILT W/SOME FINE SAND AND CLAY, TRACE OF COARSE SAND AND FINE GRAVEL.	A-4(4)	
		8			
		10			
	10.0	10			
6	10.0	11	SATURATED MEDIUM DENSE TAN FINE SAND W/SOME COARSE SAND AND SILT, TRACE OF FINE GRAVEL.	A-2-4(0)	
		12			
		16			
	12.0	23			
7	12.0	5	SATURATED SOFT BROWN SILT W/TRACE OF FINE GRAVEL AND ORGANIC MATTER.	A-4(0)	
		2			BOTTOM OF STONE FOR CULVERT
		2			
	14.0	2			
U-1	14.0		SATURATED BROWN FINE SANDY SILT W/SOME ORGANIC MATTER, TRACE OF COARSE SAND AND CLAY.	A-4(0)	
	16.0				BOTTOM OF STONE FOR WINGWALLS
8	16.0	3	SATURATED LOOSE BROWN SILTY FINE SAND W/SOME COARSE SAND, TRACE OF FINE GRAVEL.	A-2-4(0)	
		3			
		3			
	18.0	6			
	20.0	14			
9	20.0	1	SATURATED LOOSE GRAY FINE SAND W/SOME SILT, TRACE OF COARSE SAND.	A-2-4(0)	
		2			
		3			
	26.0	2			
11	28.0	3	SATURATED LOOSE GRAY FINE SAND W/SOME COARSE SAND AND SILT.	A-2-4(0)	
		2			
		4			
	30.0	4			
12	34.0	5	SATURATED MEDIUM DENSE GRAY FINE TO COARSE SAND W/TRACE OF SILT AND FINE GRAVEL.	A-3	
		7			
		8			
	36.0	8			
13	38.0	3	SATURATED MEDIUM DENSE GRAY FINE TO COARSE SAND W/TRACE OF SILT AND FINE GRAVEL.	A-3	
		4			
		8			
	40.0	8			
14	44.0	4	SATURATED MEDIUM DENSE GRAY FINE TO COARSE SAND W/TRACE OF SILT AND FINE GRAVEL.	A-3	
		7			
		8			
	46.0	8			
15	49.0	3	SATURATED LOOSE GRAY COARSE SAND W/SOME FINE SAND, TRACE OF SILT AND FINE GRAVEL.	A-1-B	
		5			
		5			
	51.0	5			
	51.0		END OF BORING		

UNOFFICIAL  
WEBSITE  
COPY

NOTES:

1. THE INFORMATION SHOWN ON THIS SHEET IS BASED ON LIMITED INVESTIGATIONS, AND IS IN NO WAY WARRANTED TO BE INDICATIVE OF ACTUAL CONDITIONS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION. SEE SECTION 102.05 OF THE STANDARD SPECIFICATIONS FOR MORE DETAIL.
2. BORING LOGS MADE BY DELAWARE DEPARTMENT OF TRANSPORTATION, SUBSURFACE EXPLORATION COMPLETED BY WALTON CORPORATION AND GEO-TECHNOLOGY ASSOCIATES, INC (GTA).
3. LOCATIONS OF BORINGS ARE REFERENCED TO THE CONSTRUCTION PLAN AND LABELED AS 'NFR-1' AND 'NFR-2'.
4. SOIL SAMPLING: 2 IN. OUTSIDE DIA. SPLIT BARREL SAMPLER, DRIVEN WITH A 140 LB. HAMMER FALLING 30 IN.
5. ALL DEPTHS GIVEN ARE IN FEET.

ADDENDUMS / REVISIONS


**BRIDGE 3-587 ON SR26  
NINE FOOT ROAD OVER  
WHARTON BRANCH**

CONTRACT	BRIDGE NO.	<b>3-587</b>
T201107302	DESIGNED BY:	
COUNTY	CHECKED BY:	
SUSSEX		

**SOIL BORINGS LOG**

SHEET NO.	10
TOTAL SHTS.	16



TEMPORARY OPEN WATER IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
OT-1	STILLING WELL - UPSTREAM CHANNEL	58.80	0.0013	4.36	COE/DNREC
OT-2	UPSTREAM SANDBAG DIKE	184.68	0.0042	13.68	COE/DNREC
OT-3	EXIST. PIPES TO PROPOSED RIPRAP	619.06	0.0142	45.86	COE/DNREC
OT-4	DOWNSTREAM SANDBAG DIKE	204.75	0.0047	15.17	COE/DNREC
OT-5	TEMP. STABILIZED OUTFALL	25.00	0.0006	1.39	COE/DNREC
OT-6	EXIST. RIPRAP TO PROP. RIPRAP	258.21	0.0059	23.91	COE/DNREC
TOTAL TEMPORARY OPEN WATER IMPACT AREA		1350.50	0.0309	104.37	COE/DNREC

TEMPORARY WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
WT-1	NE UPSTREAM TOP OF BANK	28.08	0.0007	N/A	COE
WT-2	SE DOWNSTREAM TOP OF BANK	30.34	0.0007	N/A	COE
TOTAL TEMPORARY WETLAND IMPACT AREA		58.42	0.0014	N/A	COE

OPEN WATER CREATION AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
OC-1	EXST. FILL TO PROPOSED FRAME	172.48	0.0040	63.88	COE/DNREC
TOTAL OPEN WATER CREATION AREA		172.48	0.0040	63.88	COE/DNREC

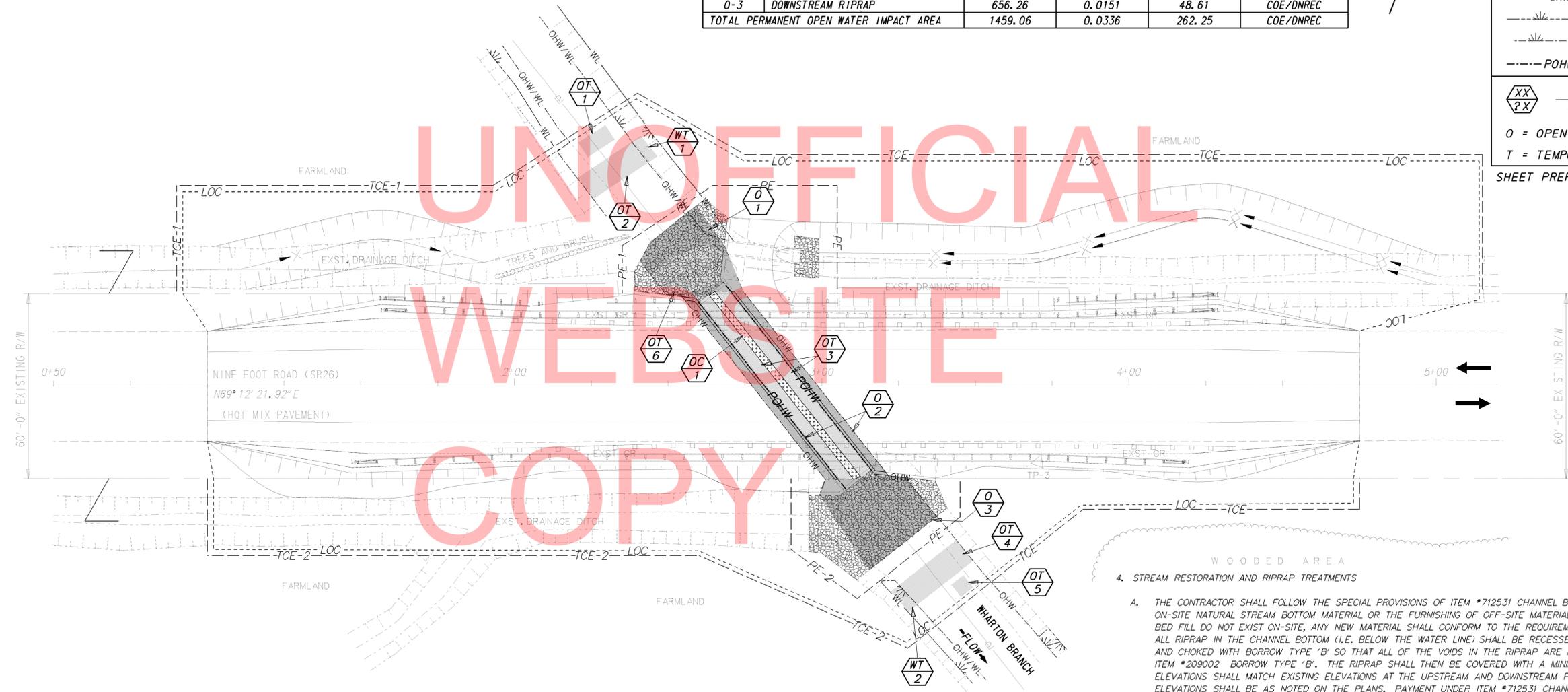
PERMANENT OPEN WATER IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
O-1	UPSTREAM RIPRAP	282.45	0.0065	20.92	COE/DNREC
O-2	EXST. PIPES TO STRUCTURE & FILL	520.35	0.0120	192.72	COE/DNREC
O-3	DOWNSTREAM RIPRAP	656.26	0.0151	48.61	COE/DNREC
TOTAL PERMANENT OPEN WATER IMPACT AREA		1459.06	0.0336	262.25	COE/DNREC

PROJECT AREA DELINEATED BY KEN DUNNE, DELDOT, ON 9/07/12, IN ACCORDANCE WITH THE CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987) AND THE ATLANTIC AND GULF COAST REGIONAL SUPPLEMENT (2010).

**LEGEND**

CREATION AREA  
 PERMANENT IMPACT AREA  
 TEMPORARY IMPACT AREA  
 ORDINARY HIGH WATER  
 WETLAND BOUNDARY  
 ORD. HIGH WATER / WETLAND  
 PROPOSED ORDINARY HIGH WATER  
 IMPACT AREA TYPE ID. (SEE BELOW)  
 IMPACT AREA ID. AND/OR NUMBER  
 O = OPEN WATER IMPACT W = WETLAND IMPACT  
 T = TEMPORARY IMPACT C = CREATION AREA

SHEET PREPARED BY: JERRY BEDWELL, 11/21/12  
 DELAWARE D. O. T.  
 BRIDGE DESIGN SECTION  
 LAST UPDATED 4/30/13



**ENVIRONMENTAL COMPLIANCE NOTES**

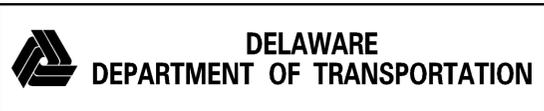
1. GENERAL NOTES:
- A. THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
  - B. IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, THE ENVIRONMENTAL STUDIES SECTION SHALL BE CONTACTED AT (302)760-2264 TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
  - C. USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.

2. NATURAL RESOURCE ISSUES:
- A. PERMIT REQUIREMENTS/APPROVALS\*:
    - U.S. ARMY CORPS OF ENGINEERS (COE): \*3(a) AND (c) (NO PCN)
    - DNREC - WETLANDS & SUBAQUEOUS LANDS (WLSL): PROJECT CONSISTENT WITH DEL. CODE CH. 72, SECTION 7217, SPECIAL EXEMPTION (b)
    - DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): ISSUED (PROJECT NOT LOCATED IN CRW)
  - \* THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THIS APPROVAL.
  - B. CONSTRUCTION RESTRICTIONS:
    - FISHERIES - NONE
    - ENDANGERED SPECIES - NONE
    - MIGRATORY BIRDS - NONE

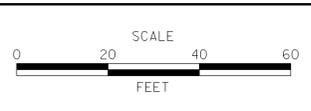
3. CULTURAL RESOURCE ISSUES: NONE NOTED

4. STREAM RESTORATION AND RIPRAP TREATMENTS
- A. THE CONTRACTOR SHALL FOLLOW THE SPECIAL PROVISIONS OF ITEM #712531 CHANNEL BED FILL IN REGARDS TO THE SALVAGING OF ON-SITE NATURAL STREAM BOTTOM MATERIAL OR THE FURNISHING OF OFF-SITE MATERIAL. IF SUFFICIENT SOURCES FOR CHANNEL BED FILL DO NOT EXIST ON-SITE, ANY NEW MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF ITEM #712531 CHANNEL BED FILL. ALL RIPRAP IN THE CHANNEL BOTTOM (I.E. BELOW THE WATER LINE) SHALL BE RECESSED ONE FOOT BELOW STREAM BED ELEVATION AND CHOKED WITH BORROW TYPE 'B' SO THAT ALL OF THE VOIDS IN THE RIPRAP ARE FILLED WITH MATERIAL. PAYMENT UNDER ITEM #209002 BORROW TYPE 'B'. THE RIPRAP SHALL THEN BE COVERED WITH A MINIMUM OF 12" CHANNEL BED FILL. FINAL CHANNEL ELEVATIONS SHALL MATCH EXISTING ELEVATIONS AT THE UPSTREAM AND DOWNSTREAM PROJECT LIMITS. THROUGH THE STRUCTURE, ELEVATIONS SHALL BE AS NOTED ON THE PLANS. PAYMENT UNDER ITEM #712531 CHANNEL BED FILL.
  - B. OTHER AREAS OF THE CHANNEL BOTTOM AFFECTED BY CONSTRUCTION (INCLUDING, BUT NOT LIMITED TO, THE LOCATION OF SUMP PITS, STABILIZED OUTFALLS, TEMPORARY PIPES AND/OR SANDBAG DIKES AND DIVERSIONS) SHALL BE RESTORED TO EXISTING CONDITIONS. ANY CAVITIES OR SCOUR HOLES RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE FILLED WITH CHANNEL BED FILL. PAYMENT UNDER ITEM #712531 CHANNEL BED FILL.
  - C. WHEN ALL EROSION AND SEDIMENT CONTROL MEASURES ARE REMOVED AND THE STREAM RETURNS TO ITS NATURAL FLOW CONDITIONS, THE FLOW MUST REMAIN ABOVE GROUND AND ABOVE THE RIPRAP (I.E. THE FLOW CANNOT BE 'LOST' IN THE RIPRAP OR BENEATH THE STRUCTURE). IF THIS IS NOT ACHIEVED, THE CONTRACTOR WILL BE REQUIRED TO TAKE CORRECTIVE ACTION AT THEIR EXPENSE.
  - D. ALL RIPRAP ON THE STREAM BANK, OUTSIDE THE CHANNEL BED, SHALL BE CHOKED WITH DELAWARE #57 STONE, FILLED WITH TOPSOIL AND SEEDED. PLACE JUST ENOUGH CHOKE MATERIAL TO PREVENT THE LOSS OF TOPSOIL THROUGH THE RIPRAP, AND THEN FINISH FILLING THE VOIDS WITH TOPSOIL SO THAT THE RIPRAP PEAKS ARE BARELY VISIBLE. AN ADDITIONAL 4-INCH TOPSOIL LAYER SHALL BE PLACED ON TOP OF THE RIPRAP. SLOPE SEEDING SHALL BE WITH ITEM #734531-STREAMBANK SEED MIX. FOLLOWING THE SEEDING OPERATION, ITEM #735535-SOIL RETENTION BLANKET MULCH, TYPE 5, OR OTHER BLANKET AS SHOWN ON THE PLANS SHALL BE INSTALLED. ALL WORK, STARTING WITH THE INITIAL CHOKING WITH TOPSOIL THROUGH THE SEEDING SHALL BE COMPLETED PRIOR TO ANY RAIN EVENT. PAYMENT FOR DELAWARE #57 STONE SHALL BE INCIDENTAL TO THE RIPRAP ITEM.
5. CLEARING IN WETLAND AREAS SHALL BE KEPT TO A MINIMUM ABSOLUTELY NECESSARY FOR CONSTRUCTION. IN WETLAND AREAS THAT ARE CLEARED, THERE SHALL BE NO GRUBBING EXCEPT WHERE NECESSARY TO CONSTRUCT PROJECT COMPONENTS SUCH AS FOUNDATIONS AND RIPRAP PROTECTION. VEGETATION SHALL BE CUT FLUSH WITH THE GROUND (I.E., NO DISTURBANCE OF THE ROOT MAT).

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ADDENDUMS / REVISIONS	



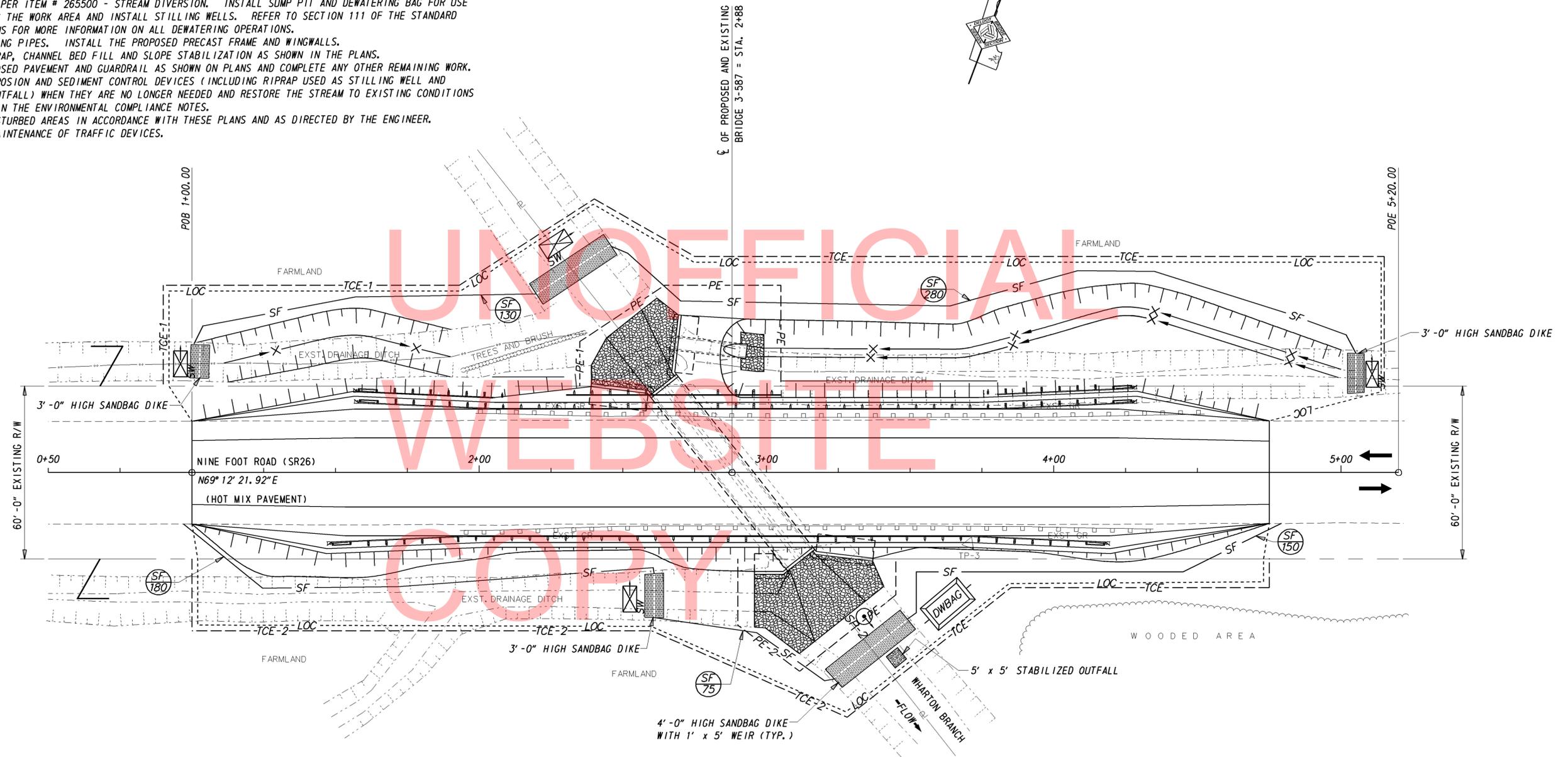
**BRIDGE 3-587 ON SR26  
 NINE FOOT ROAD OVER  
 WHARTON BRANCH**

CONTRACT	BRIDGE NO.	<b>3-587</b>
T201107302	DESIGNED BY:	JB
COUNTY	CHECKED BY:	JM
SUSSEX		

<b>ENVIRONMENTAL COMPLIANCE PLAN</b>	SHEET NO.	EC-01
	TOTAL SHTS.	11
		16

**SEQUENCE OF CONSTRUCTION:**

1. CLOSE NINE FOOT ROAD (SR26) IN ACCORDANCE WITH THE DETOUR PLAN.
2. INSTALL SILT FENCE AS SHOWN ON THE PLAN, EXCEPT AT CONNECTION TO SANDBAG DIKES. CONSTRUCT THE UPSTREAM AND DOWNSTREAM SANDBAG DIKES IN THE EXISTING CHANNEL AND AT ALL DITCH LOCATIONS SHOWN ON THE PLAN. CONNECT THE SILT FENCE TO ALL THE SANDBAG DIKES, COMPLETELY ENCLOSING THE WORK AREA. INSTALL STABILIZED OUTFALL USING R-5 RIP-RAP. TO MAINTAIN STREAM FLOW AND FLOW FROM THE SIDE DITCHES, INSTALL PUMPS TO DIVERT ANY FLOW AROUND THE WORK AREA. STREAM DIVERSION SHALL BE INSTALLED AS PER ITEM # 265500 - STREAM DIVERSION. INSTALL SUMP PIT AND DEWATERING BAG FOR USE IN DEWATERING THE WORK AREA AND INSTALL STILLING WELLS. REFER TO SECTION 111 OF THE STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ALL DEWATERING OPERATIONS.
3. REMOVE EXISTING PIPES. INSTALL THE PROPOSED PRECAST FRAME AND WINGWALLS.
4. INSTALL RIP-RAP, CHANNEL BED FILL AND SLOPE STABILIZATION AS SHOWN IN THE PLANS.
5. INSTALL PROPOSED PAVEMENT AND GUARDRAIL AS SHOWN ON PLANS AND COMPLETE ANY OTHER REMAINING WORK.
6. REMOVE ALL EROSION AND SEDIMENT CONTROL DEVICES (INCLUDING RIPRAP USED AS STILLING WELL AND STABILIZED OUTFALL) WHEN THEY ARE NO LONGER NEEDED AND RESTORE THE STREAM TO EXISTING CONDITIONS AS OUTLINED IN THE ENVIRONMENTAL COMPLIANCE NOTES.
7. STABILIZE DISTURBED AREAS IN ACCORDANCE WITH THESE PLANS AND AS DIRECTED BY THE ENGINEER.
8. REMOVE ALL MAINTENANCE OF TRAFFIC DEVICES.



CL OF PROPOSED AND EXISTING  
BRIDGE 3-587 = STA. 2+88

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**PORTABLE CHANGEABLE MESSAGE SIGNS**

**PRIOR TO DETOUR**  
(10 DAYS PRIOR TO BEGINNING OF DETOUR)

PCMS-1

**SR 26**  
**TO CLOSE**

**STARTING**  
**XXXXXX**

**DURING DETOUR**  
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-2

**SR 26**  
**CLOSED**

**FOLLOW**  
**DETOUR**

**DURING DETOUR**  
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

PCMS-3

**SR 26**  
**CLOSED**  
**WEST OF**

**US 113**  
**USE**  
**SR 24 WB**

**DURING DETOUR**  
(DISPLAY FOR 5 DAYS AFTER IMPLEMENTATION OF DETOUR)

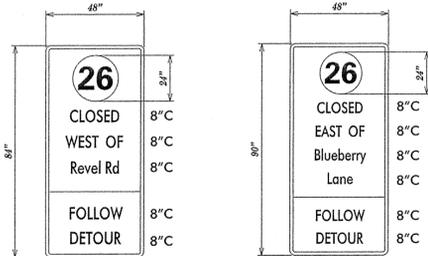
PCMS-1

**XXXXXXXX**  
**XXXXXXXX**  
**XXXXXXXX**

**XXXXXXXX**  
**XXXXXXXX**  
**XXXXXXXX**

**\*NOTE - RELOCATE PCMS-1 TO PCMS-2 LOCATIONS UPON IMPLEMENTATION OF DETOUR.**

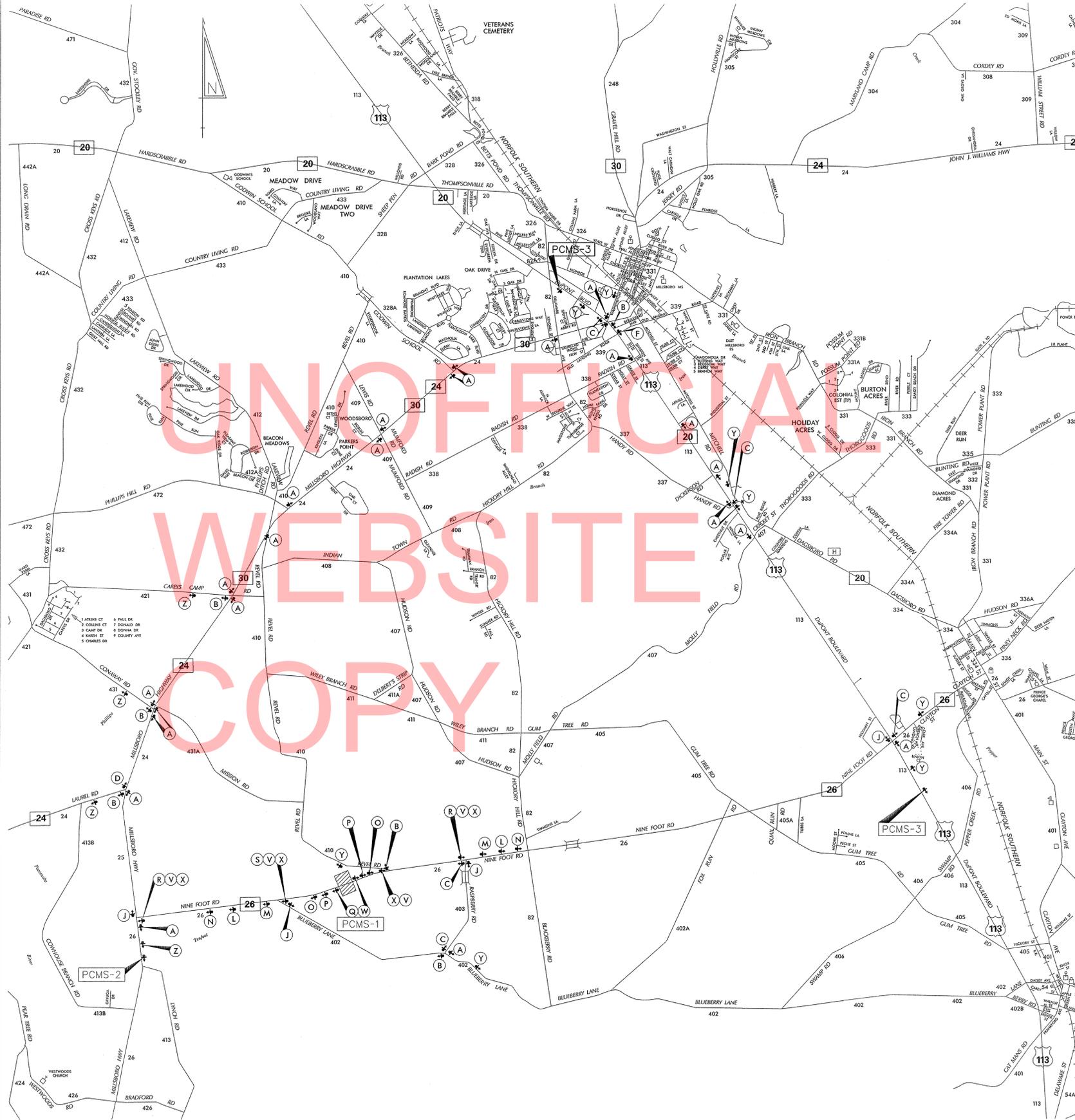
**SPECIAL SIGNS**



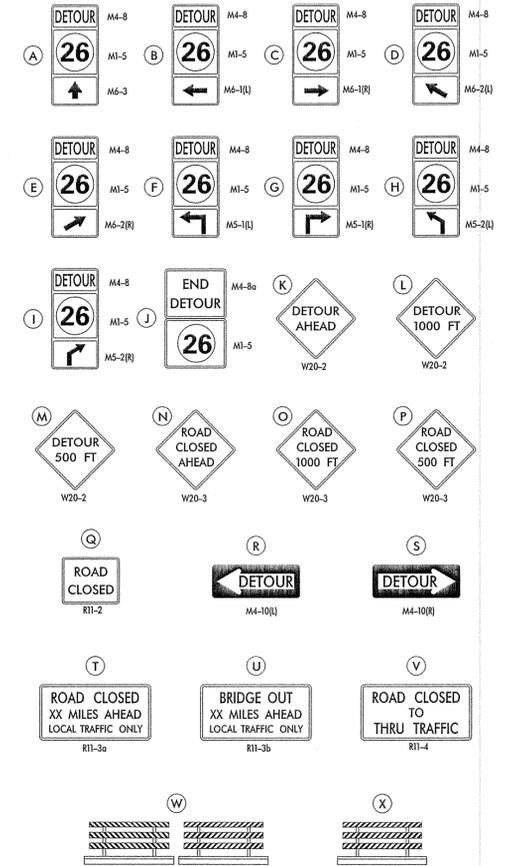
**\*D/G RETROREFLECTIVE FLUORESCENT ORANGE BACKGROUND; BLACK LEGEND**

**\*ROUTE SHIELD - WHITE BACKGROUND; BLACK LEGEND**

**\*WHEN USED ON MULTI-LANE DIVIDED HIGHWAYS, SPECIAL SIGNS AND DETOUR TRAILBLAZERS SHALL BE PLACED ON BOTH SIDES OF THE DIRECTIONAL ROADWAY.**



**LEGEND**



**GENERAL NOTES**

- ALL DETOUR SIGNING, INCLUDING TRAILBLAZERS, ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR IN COMPLIANCE WITH "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
- THE CONTRACTOR SHALL COMPLY WITH GUIDELINES IN "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD PART 6) FOR BARRICADES AND SIGNS (AS PER LATEST REVISION.)
- DESIGN OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE FHWA STANDARD HIGHWAY SIGNS BOOK.
- SIZES OF ALL SIGNS SHALL BE IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.) SIZE OF SIGN SHALL BE BASED ON TYPE OF ROADWAY ON WHICH THE SIGN IS INSTALLED.
- THE COLORS, DIMENSIONS, AND CHARACTERISTICS OF ALL INTERSTATE, U.S. ROUTE, AND STATE ROUTE SHIELD SIGNS SHALL BE IN ACCORDANCE WITH SECTION 2D.11 OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD.)
- SIGNS NO LONGER IN USE SHALL BE COMPLETELY COVERED WITH NO RETROREFLECTIVE MATERIAL SHOWING, OR SHALL BE REMOVED, AS DIRECTED BY THE ENGINEER.
- FIELD CONDITIONS MAY DICTATE CHANGES AT SOME TIME DURING THE LIFE OF THE CONTRACT. IN THE EVENT OF OMISSIONS OR CORRECTIONS, THE SIGNING PROVISIONS OF "THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (DE MUTCD) WILL PREVAIL.
- SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHOULD BE CHANGED TO "RAMP", "RR XING", OR "BRIDGE" WHERE APPLICABLE.
- WARNING SIGNS AND DETOUR TRAILBLAZERS SHALL BE MOUNTED ON BREAKAWAY POSTS AND HAVE RETROREFLECTIVE FLUORESCENT ORANGE SHEETING.
- "W" BARRICADES SHALL COMPLETELY RUN THE FULL WIDTH OF THE ROADWAY.
- BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE ENGINEER.

RECOMMENDED *Mulick* DATE: 7-18-12

RECOMMENDED \_\_\_\_\_ DATE: \_\_\_\_\_

RECOMMENDED \_\_\_\_\_ DATE: \_\_\_\_\_

APPROVED CHIEF SAFETY OFFICER *Small* DATE: 7-23-12

APPROVED TRAFFIC ENGINEER *Small* DATE: 7/23/12



ADDENDUM / REVISIONS	

NOT TO SCALE

BR3-587  
SR 26

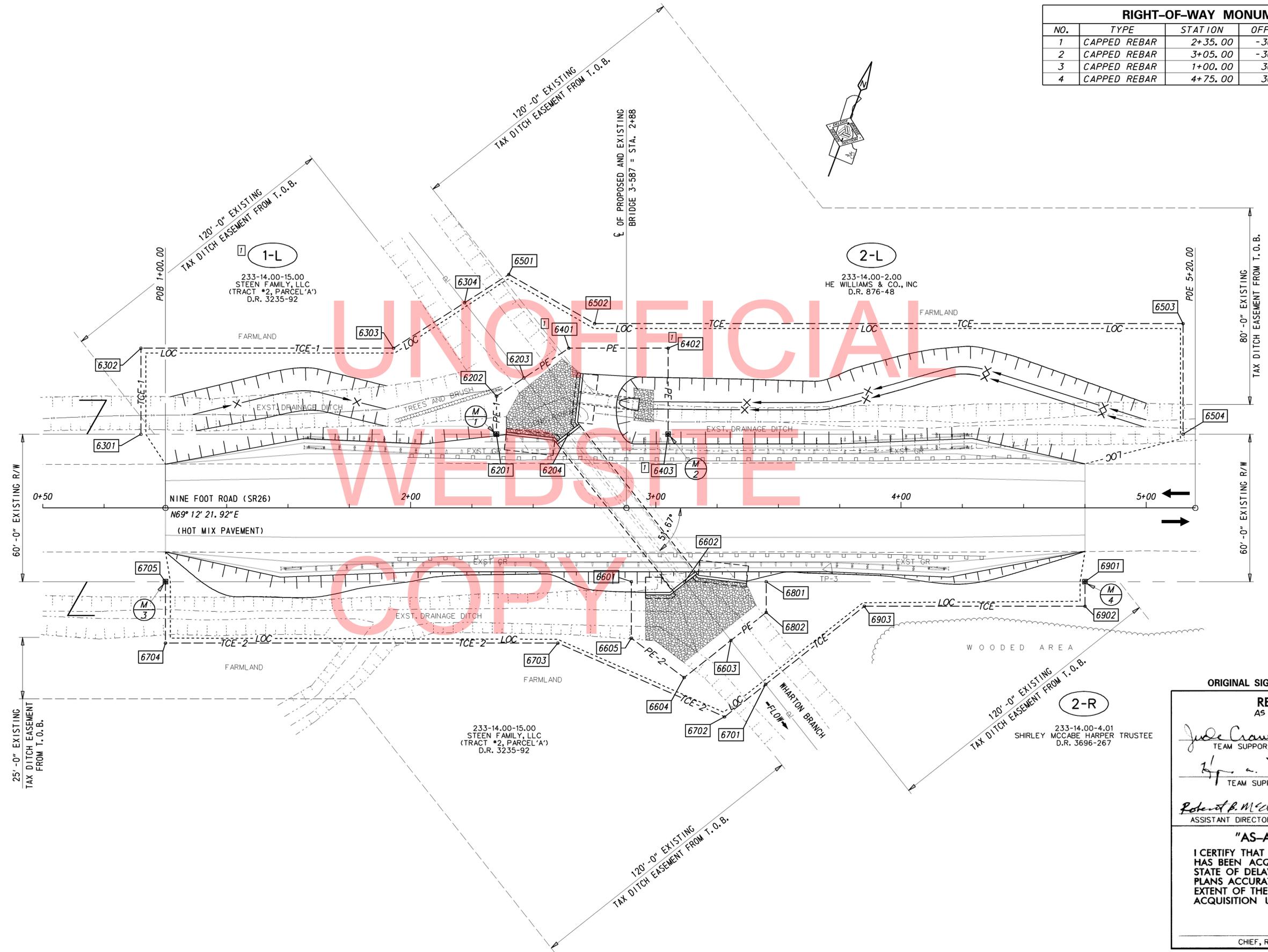
CONTRACT	ROAD NO.	<b>S26</b>
T201107302	DESIGNED BY: MFR	
SUSSEX	CHECKED BY: ASW	

**DETOUR PLAN**

SHEET NO.	13
TOTAL SHTS.	16

C:\DOCUMENTS AND SETTINGS\MICHAEL.RIVERAMY\DOCUMENTS\MICRO STATION DGN\NINE FOOT RD SR 26 AT REVEL RD BR3-587.DGN

RIGHT-OF-WAY MONUMENT SCHEDULE					
NO.	TYPE	STATION	OFFSET	NORTHING	EASTING
1	CAPPED REBAR	2+35.00	-30.00'	192407.134	681081.708
2	CAPPED REBAR	3+05.00	-30.00'	192431.985	681147.148
3	CAPPED REBAR	1+00.00	30.00'	192303.117	680976.802
4	CAPPED REBAR	4+75.00	30.00'	192436.244	681327.375



ORIGINAL SIGNATURE DATE: MARCH 5, 2013

**RECOMMENDED**  
AS PER REVISION #1

*Jude Crawford* / *Shirley Harper* 4/22/13  
TEAM SUPPORT SQUAD MANAGER DATE

*Robert B. McElaney* 4-22-13  
TEAM SUPPORT ENGINEER DATE

*Robert B. McElaney* 4/22/13  
ASSISTANT DIRECTOR, ENGINEERING SUPPORT DATE

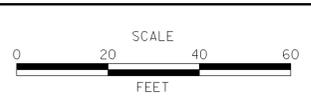
**"AS-ACQUIRED" PLANS**

I CERTIFY THAT ALL PROPOSED RIGHT-OF-WAY HAS BEEN ACQUIRED IN THE NAME OF THE STATE OF DELAWARE AND THAT THESE PLANS ACCURATELY DEPICT THE NATURE AND EXTENT OF THE REAL ESTATE SECTION ACQUISITION UNDER THIS PROJECT.

\_\_\_\_\_  
CHIEF, REAL ESTATE DATE

NOTE: THIS SHEET SHALL BE USED FOR RIGHT-OF-WAY ACQUISITION PURPOSES ONLY.

ADDENDUMS / REVISIONS
1. REMOVED PREVIOUS PE-1 FROM THE NORTH SIDE OF PARCEL 1-L, MODIFIED PE PT. #'S 6401, 6402 AND 6403 ON PARCEL 2-L JB ~ 3-26-13



**BRIDGE 3-587 ON SR26 NINE FOOT ROAD OVER WHARTON BRANCH**

CONTRACT	BRIDGE NO.	<b>3-587</b>
T201107302	DESIGNED BY:	JB
SUSSEX	CHECKED BY:	JM

<b>RIGHT-OF-WAY PLAN SHEET 1 OF 3</b>	SHEET NO.	14
	TOTAL SHTS.	16

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ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
233-14.00-15.00	(1-L) STEEN FAMILY, LLC [7]	P/E-1	D.R. 3235-92	110.000							
ALIGNMENT NUMBER & DESCRIPTION: 3000 - CONST & RW BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
6201	3000	2+35.00	-30.00	192407.1343	681081.7077	N 20°47' 38.08" W	15.5000				
6202	3000	2+35.00	-45.50	192421.6247	681076.2051	N 35°42' 20.39" E	13.4072				
6203	3000	2+46.18	-52.90	192432.5116	681084.0298	S 59°06' 59.43" E	29.1894				
6204	3000	2+64.28	-30.00	192417.5289	681109.0805	S 69°12' 21.92" W	29.2800				
6201	3000	2+35.00	-30.00	192407.1343	681081.7077						

FIGURE 6210 AREA = 421.9010 SQ. FT. (0.0097 ACRES)

NOTE: NORTH OF CONST & RW BASELINE

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
233-14.00-15.00	(1-L) STEEN FAMILY, LLC	TCE-1	D.R. 3235-92	110.000							
ALIGNMENT NUMBER & DESCRIPTION: 3000 - CONST & RW BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
6301	3000	0+90.00	-30.00	192355.6582	680946.1525	N 20°47' 38.08" W	35.0000				
6302	3000	0+90.00	-65.00	192388.3784	680933.7273	N 69°12' 21.92" E	103.0000				
6303	3000	1+93.00	-65.00	192424.9442	681030.0182	N 36°39' 11.15" E	34.3815				
6304	3000	2+21.98	-83.50	192452.5273	681050.5429	S 59°07' 57.40" E	39.0128				
6203	3000	2+46.18	-52.90	192432.5116	681084.0298	S 35°42' 20.39" W	13.4072				
6202	3000	2+35.00	-45.50	192421.6247	681076.2051	S 20°47' 38.08" E	15.5000				
6201	3000	2+35.00	-30.00	192407.1343	681081.7077	S 69°12' 21.92" W	145.0000				
6301	3000	0+90.00	-30.00	192355.6582	680946.1525						

FIGURE 6310 AREA = 5597.1490 SQ. FT. (0.1285 ACRES)

NOTE: NORTH OF CONST & RW BASELINE

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
233-14.00-15.00	(1-L) STEEN FAMILY, LLC	P/E-2	D.R. 3235-92	110.000							
ALIGNMENT NUMBER & DESCRIPTION: 3000 - CONST & RW BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
6601	3000	2+90.00	30.00	192370.5679	681154.4257	N 69°12' 21.92" E	21.7200				
6602	3000	3+11.72	30.00	192378.2787	681174.7309	S 59°07' 39.34" E	30.4559				
6603	3000	3+30.61	53.89	192362.6509	681200.8716	S 30°52' 23.44" W	24.3619				
6604	3000	3+11.50	69.00	192341.7409	681188.3705	N 74°08' 16.09" W	26.8002				
6605	3000	2+90.00	53.00	192349.0660	681162.5908	N 20°47' 38.08" W	23.0000				
6601	3000	2+90.00	30.00	192370.5679	681154.4257						

FIGURE 6610 AREA = 1041.7729 SQ. FT. (0.0239 ACRES)

NOTE: SOUTH OF CONST & RW BASELINE

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
233-14.00-15.00	(1-L) STEEN FAMILY, LLC	TCE-2	D.R. 3235-92	110.000							
ALIGNMENT NUMBER & DESCRIPTION: 3000 - CONST & RW BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
6701	3000	3+44.75	71.78	192350.9460	681220.4417	S 30°55' 25.28" W	21.3385				
6702	3000	3+28.00	85.00	192332.6407	681209.4759	N 86°59' 16.69" W	74.3236				
6703	3000	2+60.00	55.00	192336.5461	681135.2549	S 69°12' 21.92" W	160.0000				
6704	3000	1+00.00	55.00	192279.7449	680985.6768	N 20°47' 38.08" W	25.0000				
6705	3000	1+00.00	30.00	192303.1165	680976.8016	N 69°12' 21.92" E	190.0000				
6601	3000	2+90.00	30.00	192370.5679	681154.4257	S 20°47' 38.08" E	23.0000				
6605	3000	2+90.00	53.00	192349.0660	681162.5908	S 74°08' 16.09" E	26.8002				
6604	3000	3+11.50	69.00	192341.7409	681188.3705	N 74°08' 16.09" W	24.3619				
6603	3000	3+30.61	53.89	192362.6509	681200.8716	S 30°52' 23.44" E	24.3619				
6701	3000	3+44.75	71.78	192350.9460	681220.4417	S 59°06' 58.51" E	22.8033				

FIGURE 6710 AREA = 5798.8317 SQ. FT. (0.1331 ACRES)

NOTE: SOUTH OF CONST & RW BASELINE

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
233-14.00-2.00	(2-L) HE WILLIAMS & CO, INC	P/E	D.R. 876-48	139.700							
ALIGNMENT NUMBER & DESCRIPTION: 3000 - CONST & RW BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
6204	3000	2+64.28	-30.00	192417.5289	681109.0805	N 59°06' 59.43" W	29.1894				
6203	3000	2+46.18	-52.90	192432.5116	681084.0298	N 35°43' 08.09" E	21.9302				
6401	3000	2+64.47	-65.00	192450.3166	681096.8329	N 20°47' 38.08" E	40.5300				
6402	3000	3+05.00	-65.00	192464.7050	681134.7229	S 69°12' 21.92" E	35.0000				
6403	3000	3+05.00	-30.00	192431.9848	681147.1482	S 69°12' 21.92" W	40.7200				
6204	3000	2+64.28	-30.00	192417.5289	681109.0805						

FIGURE 6410 AREA = 1740.8005 SQ. FT. (0.0400 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
233-14.00-2.00	(2-L) HE WILLIAMS & CO, INC	TCE	D.R. 876-48	139.700							
ALIGNMENT NUMBER & DESCRIPTION: 3000 - CONST & RW BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
6203	3000	2+46.18	-52.90	192432.5116	681084.0298	N 59°07' 57.40" W	39.0128				
6304	3000	2+21.98	-83.50	192452.5273	681050.5429	N 36°39' 39.21" W	21.3769				
6501	3000	2+40.00	-95.00	192469.6754	681063.3065	S 81°02' 56.51" E	40.3113				
6502	3000	2+75.00	-75.00	192463.4034	681103.1269	N 69°12' 21.92" E	240.0000				
6503	3000	5+15.00	-75.00	192548.6053	681327.4941	S 20°47' 38.08" W	45.0000				
6504	3000	5+15.00	-30.00	192506.5364	681343.4695	S 69°12' 21.92" W	210.0000				
[7] 6403	3000	3+05.00	-30.00	192431.9848	681147.1482	N 20°47' 38.08" W	35.0000				
[7] 6402	3000	3+05.00	-65.00	192464.7050	681134.7229	S 69°12' 21.92" W	40.5300				
[7] 6401	3000	2+64.47	-65.00	192450.3166	681096.8329	S 35°43' 08.09" W	21.9302				
6203	3000	2+46.18	-52.90	192432.5116	681084.0298						

FIGURE 6510 AREA = 10920.1995 SQ. FT. (0.2507 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
233-14.00-4.01	(2-R) SHIRLEY MCCABE HARPER TRUSTEE	P/E	D.R. 3696-267	12.160							
ALIGNMENT NUMBER & DESCRIPTION: 3000 - CONST & RW BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
6602	3000	3+11.72	30.00	192378.2787	681174.7309	N 69°12' 21.92" E	33.2800				
6801	3000	3+45.00	30.00	192390.0933	681205.8431	S 24°05' 25.82" E	12.5207				
6802	3000	3+45.72	42.50	192378.6631	681210.9538	S 32°11' 48.85" W	18.9221				
6603	3000	3+30.61	53.89	192362.6509	681200.8716	N 59°07' 39.34" W	30.4559				
6602	3000	3+11.72	30.00	192378.2787	681174.7309						

FIGURE 6810 AREA = 496.0675 SQ. FT. (0.0114 ACRES)

ASSESSMENT NUMBER	OWNERSHIP OF RECORD	TYPE OF ACQUISITION	TITLE SOURCE	PARCEL AREA (ACRES)							
233-14.00-4.01	(2-R) SHIRLEY MCCABE HARPER TRUSTEE	TCE	D.R. 3696-267	12.160							
ALIGNMENT NUMBER & DESCRIPTION: 3000 - CONST & RW BASELINE											
PT. NO.	ALIGN. NO.	STATION	OFFSET *	NORTH	EAST	BEARING	DISTANCE	CHORD BEARING	CHORD LENGTH	ARC LENGTH	RADIUS **
6801	3000	3+45.00	30.00	192390.0933	681205.8431	N 69°12' 21.92" E	130.0000				
6901	3000	4+75.00	30.00	192436.2443	681327.3754	S 20°47' 38.08" E	10.0000				
6902	3000	4+75.00	40.00	192426.8957	681330.9255	S 69°12' 21.92" W	90.0000				
6903	3000	3+85.00	40.00	192394.9450	681246.7878	S 30°54' 45.70" W	51.2838				
6701	3000	3+44.75	71.78	192350.9460	681220.4417	N 59°06' 58.51" W	22.8033				
6603	3000	3+30.61	53.89	192362.6509	681200.8716	N 32°11' 48.85" W	18.9221				
6802	3000	3+45.72	42.50	192378.6631	681210.9538	N 24°05' 25.82" E	12.5207				
6801	3000	3+45.00	30.00	192390.0933	681205.8431						

FIGURE 6910 AREA = 2135.9330 SQ. FT. (0.0490 ACRES)

LEGEND	
FEE	AREA ACQUIRED BY EXISTING RW
RW	AREA OCCUPIED BY EXISTING RW
PE	PERMANENT EASEMENT
TCE	TEMPORARY CONSTRUCTION EASEMENT
*	" - " OFFSET IS LEFT OF BASELINE
**	" - " CURVE TURNS TO THE LEFT

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ADDENDUMS / REVISIONS	
[7]	REMOVED PREVIOUS PE-1 FROM THE NORTH SIDE OF PARCEL 1-L, MODIFIED PE PT. #'S 6401, 6402 AND 6403 ON PARCEL 2-L JB ~ 3-26-13

<b>DELAWARE DEPARTMENT OF TRANSPORTATION</b>	<b>BRIDGE 3-587 ON SR26 NINE FOOT ROAD OVER WHARTON BRANCH</b>		CONTRACT T2010107302 COUNTY SUSSEX	BRIDGE NO. <b>3-587</b> DESIGNED BY: JB CHECKED BY:	<b>RIGHT-OF-WAY DATA SHEET</b>	SHEET NO. 15 TOTAL SHTS. 16
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COUNTY ASSESSMENT PARCEL NUMBER	PLAN SHEET NUMBER	OWNERSHIP OF RECORD	TITLE SOURCE	PROPERTY AREA BEFORE ACQUISITION (ACRE)  D=DEED C=CALCULATED A=ASSESSMENT	ACQUISITION CODE  FEE, R/W, P/E, TCE	AREA TO BE ACQUIRED				PROPERTY AREA REMAINING (SQ. FEET /ACRES)	DEED RECORD OF ACQUISITION	REMARKS
						ACQUISITION (SQ. FEET /ACRES)	AREA OCCUPIED BY EXISTING RIGHT OF WAY (SQ. FEET /ACRES)	EASEMENT				
								PERMANENT (SQ. FEET /ACRES)	TEMPORARY (SQ. FEET /ACRES)			
233-14.00-15.00	15	(1-L) STEEN FAMILY, LLC [7]	D.R. 3235-92	D - 110.00	P/E-1 TCE-1 P/E-2 TCE-2			421.901 / 0.01 5597.149 / 0.13	4791600.00 / 110.00		AREA OF PE OCCUPIED BY TAX DITCH EASEMENT = 421.90 / 0.010 AREA OF TCE OCCUPIED BY TAX DITCH EASEMENT = 5490.67 / 0.126 AREA OF PE OCCUPIED BY TAX DITCH EASEMENT = 1041.77 / 0.024 AREA OF TCE OCCUPIED BY TAX DITCH EASEMENT = 5798.83 / 0.133	
233-14.00-2.00	15	(2-L) HE WILLIAMS & CO, INC [7]	D.R. 876-48	D - 139.70	P/E TCE			1740.8005 / 0.04 10920.1995 / 0.25	6085332.00 / 139.70		AREA OF PE OCCUPIED BY TAX DITCH EASEMENT = 1740.81 / 0.040 AREA OF TCE OCCUPIED BY TAX DITCH EASEMENT = 10920.20 / 0.251	
233-14.00-4.01	15	(2-R) SHIRLEY MCCABE HARPER TRUSTEE	D.R. 3696-267	D - 12.16	P/E TCE			496.0675 / 0.01 2135.933 / 0.05	529689.60 / 12.16		AREA OF PE OCCUPIED BY TAX DITCH EASEMENT = 496.07 / 0.011 AREA OF TCE OCCUPIED BY TAX DITCH EASEMENT = 2135.93 / 0.049	

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<b>DELAWARE DEPARTMENT OF TRANSPORTATION</b>	ADDENDUMS / REVISIONS [7] REMOVED PREVIOUS PE-1 FROM THE NORTH SIDE OF PARCEL 1-L, MODIFIED PE PT. #'S 6401, 6402 AND 6403 ON PARCEL 2-L JB ~ 3-26-13	BRIDGE 3-587 ON SR26 NINE FOOT ROAD OVER WHARTON BRANCH	CONTRACT T201107302 COUNTY SUSSEX	BRIDGE NO. <b>3-587</b> DESIGNED BY: JB CHECKED BY:	RIGHT-OF-WAY TABULATION SHEET	SHEET NO. 16 TOTAL SHTS. 16	
	ACQUISITION CODES FEE - ACQUISITION      P/E - PERMANENT EASEMENT R/W - AREA OCCUPIED BY EXISTING R/W      TCE - TEMPORARY EASEMENT						