

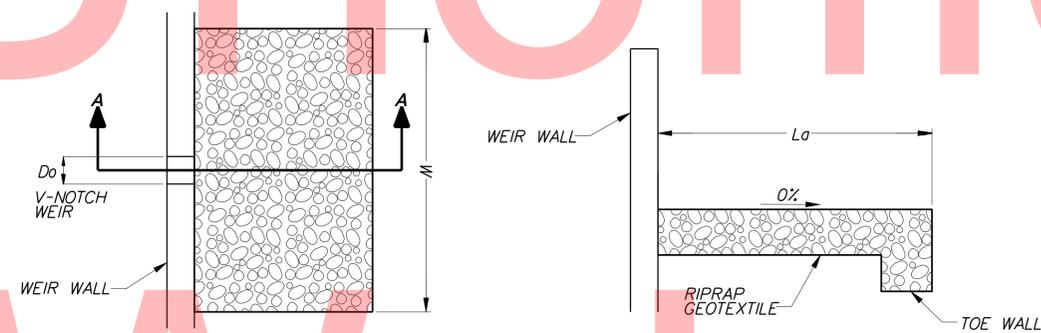
**CROSS SECTION**  
SCALE: NONE

**PROFILE**  
SCALE: NONE

**STONE CHECK DAM**  
SCALE: NONE

**NOTES:**

1. RIPRAP ITEM 712020
2. GEOTEXTILES, RIPRAP ITEM 713003
3. SEE STANDARD NO. E-10 FOR GEOTEXTILE PLACEMENT



**PLAN**  
SCALE: NONE

**SECTION A-A**  
SCALE: NONE

**BASIN RIPRAP OUTLET PROTECTION**  
SCALE: NONE

**NOTES:**

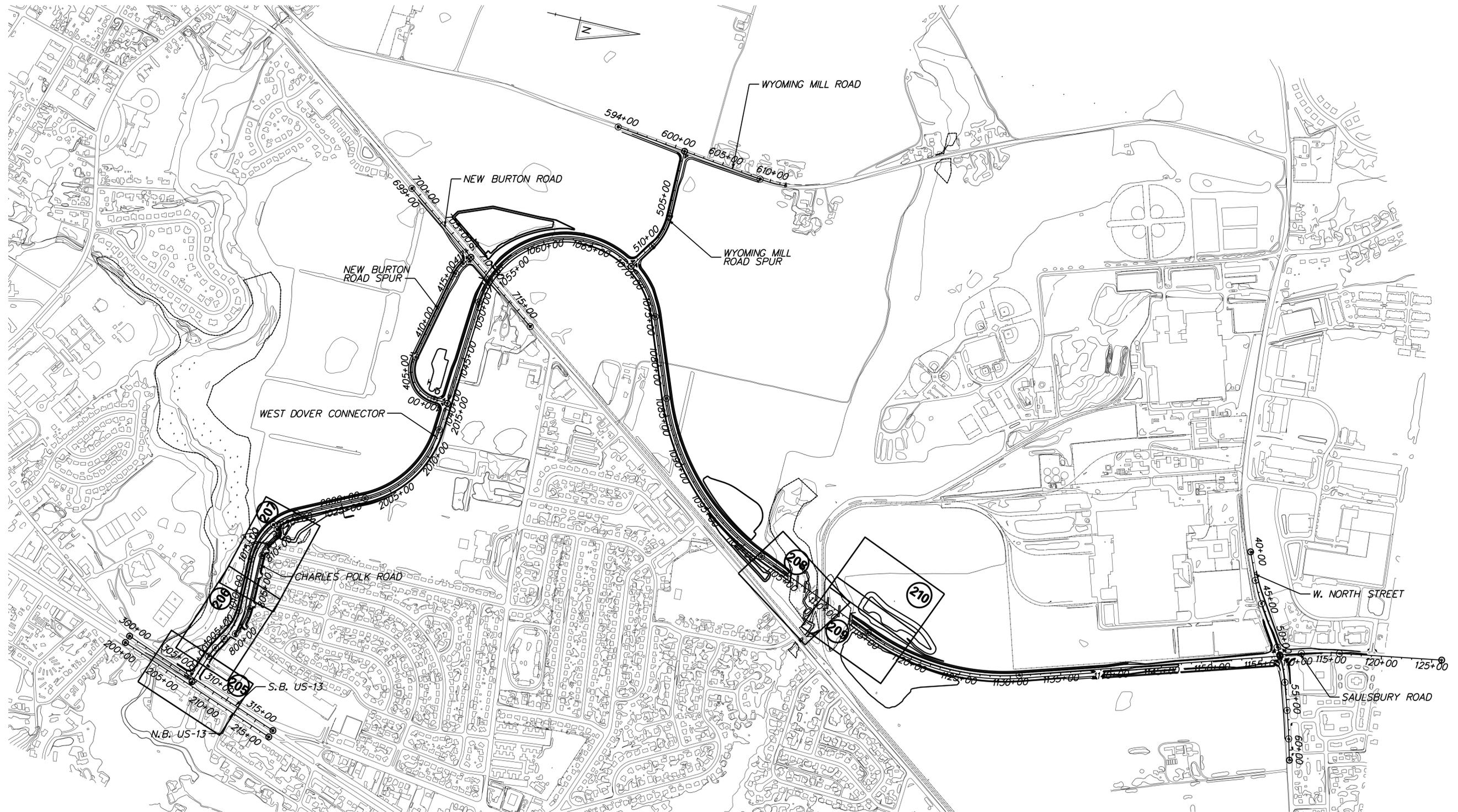
1. RIPRAP ITEM 712006
2. GEOTEXTILES, RIPRAP ITEM 713003
3. SEE STANDARD NO. E-10
4. DEPRESS CENTERLINE OF APRON SLIGHTLY TO PREVENT EDGE CUTTING

SCD	A	B	Z	W	C	D	E	Y
1	17'	16'	2	10'	13'	16'	16'	3
2	16'	15'	3	10'	12'	14'	15'	3
3	19'	18'	3	5'	11'	18'	19'	3
4	27'	26'	4	15'	20'	26'	27'	4
5	26'	25'	4	10'	24'	25'	26'	4
6	27'	26'	3	10'	17'	26'	27'	4
7	26'	25'	4	10'	15'	25'	26'	4
8	26'	25'	4	10'	17'	26'	25'	4
9	27'	26'	4	10'	14'	26'	27'	4
10	28'	27'	4	10'	15'	27'	28'	4
11	25'	24'	4	10'	18'	25'	24'	4
12	35'	34'	3	10'	14'	34'	35'	3
13	35'	34'	3	10'	9'	34'	35'	3

BMP	Do	La	W	R No.
2	1.62'	20'	22'	R-5
3	1.66'	20'	22'	R-5
4	5.91'	20'	22'	R-5
5	6.00'	20'	22'	R-5
6	1.06'	20'	22'	R-5

DATA			
WEIR TOP OF WIDTH (Do)	APRON LENGTH (La)	APRON WIDTH (W)	RIPRAP SIZE (R No.)

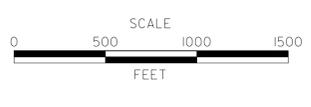
4/2/2014 d:\in\p\14\BRIDGE-HIGHWAYS\6061\_DeIDOT\_WEST\_DOVER\_CONNECTOR\Civil\Civ\_Sheets\07\_SWMA\SW16.dgn



9/15/2014 10:41:47 AM \\BRIDGE-HIGHWAYS\6061\_DeDOT\_West\_Dover\_Connector\Civil\_Sheets\09\_Environmental\EC01.dgn



ADDENDUMS / REVISIONS	



**WEST DOVER CONNECTOR**

CONTRACT T200411701	BRIDGE NO.
COUNTY KENT	DESIGNED BY: SE
	CHECKED BY: TH

**ENVIRONMENTAL  
 COMPLIANCE  
 INDEX SHEET**

EC-01
SHEET NO. 202
TOTAL SHTS. 320



**ENVIRONMENTAL COMPLIANCE NOTES FOR CROSSING AT PUNCHEON RUN (BR 2-156)**

**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.
- D. WETLANDS DELINEATED BY AECOM IN APRIL AND MAY 2005 IN ACCORDANCE WITH THE US ARMY CORPS OF ENGINEERS "CORPS OF ENGINEERS WETLAND DELINEATION MANUAL (1987)" AND REGIONAL SUPPLEMENTS, LAST UPDATED NOVEMBER 2010. SUPPLEMENTAL INVESTIGATIONS CONDUCTED ON MARCH 6, 2012 AND SEPTEMBER 26, 2012 TO CONFIRM SITE CONDITIONS.
- E. JURISDICTIONAL DETERMINATION WAS APPROVED ON DECEMBER 11, 2012 (EXPIRES DECEMBER 11, 2017).

**2. NATURAL RESOURCE ISSUES:**

- A. PERMIT REQUIREMENTS/APPROVALS\*:
  - U.S. ARMY CORPS OF ENGINEERS (USACE): NATIONWIDE PERMIT #14 \*\*
  - DNREC WLSL: PROJECT CONSISTENT WITH DEL. CODE CH. 72, SECTION 7217, SPECIAL EXEMPTION (A) FOR IMPACTS TO THE RIVULETS. NO IMPACTS TO PUNCHEON RUN AUTHORIZED.
  - DNREC - WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): ISSUED (PROJECT IS NOT LOCATED IN CRW) CITY OF DOVER - FLOODPLAIN APPROVAL\*\*
- \* THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THIS APPROVAL.
- \*\* THE CONTRACTOR MUST ENSURE THAT THESE PERMITS/APPROVALS ARE IN THEIR POSSESSION PRIOR TO BEGINNING CONSTRUCTION IN THE PERMITTED AREA(S) AND ENSURE THEY ARE DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.
- B. CONSTRUCTION RESTRICTIONS:
  - FISHERIES - NO IN-STREAM WORK FROM MARCH 1 - JUNE 30 (INCLUSIVE)
  - ENDANGERED SPECIES - NONE
  - MIGRATORY BIRDS - NONE

**3. CULTURAL RESOURCE ISSUES:**

- A. THIS PROJECT WAS FOUND AS AN ADVERSE EFFECT FINDING. AS SUCH, A MEMORANDUM OF AGREEMENT (MOA) WAS ISSUED AND IS ATTACHED AS PART OF THE ENVIRONMENTAL STATEMENT. PROJECT NOTES HAVE BEEN ADDED THAT IDENTIFY AND RESTRICT ANY ADDITIONAL ACCESS ONTO OR NEAR THESE HISTORIC PROPERTIES. LANDSCAPING MEASURES, IF UNDERTAKEN IN THE PLAN SHEETS NEAR OR ALONG THESE PROPERTIES, WILL NOT BE MODIFIED UNLESS FIRST APPROVED AND JUSTIFIED BY DELDOT ENVIRONMENTAL STUDIES SECTION.
- 4. CLEARING IN WETLAND AREAS SHALL BE KEPT TO THE MINIMUM ABSOLUTELY NECESSARY FOR CONSTRUCTION ACCESS. IN WETLAND AREAS THAT ARE CLEARED, THERE SHALL BE NO GRUBBING EXCEPT WHERE NECESSARY TO CONSTRUCT PROJECT COMPONENTS SUCH AS FOUNDATIONS AND RIPRAP PROTECTION. (I.E. NO DISTURBANCE OF THE ROOT MAT). TEMPORARILY DISTURBED WETLAND AREAS SHALL BE RESTORED TO GRADE AND SEEDED WITH A STABILIZING SEED MIX (ITEM 734017 - TEMPORARY GRASS SEEDING - DRY GROUND). SILT FENCE AND/OR CONSTRUCTION SAFETY FENCE SHALL BE USED ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE WATER/WETLANDS EXIST WITHIN 20 FEET OF THE LOC. CONTRACTOR ACCESS BEYOND THE LOC IS STRICTLY PROHIBITED.

**5. WETLAND ACCESS ROAD:**

- A. THE CONTRACTOR SHALL CONSTRUCT A WETLAND ACCESS ROAD AS SHOWN ON THESE PLANS AND ON THE CONSTRUCTION PHASING, MOT AND EROSION CONTROL PLANS FOR CONSTRUCTION ACCESS TO THE PUNCHEON RUN STRUCTURE, ITEM 202508 WETLAND ACCESS ROAD, TYPE II (STATION 1105+50 TO STATION 1113+00). THE CONTRACTOR SHALL RESTORE THE DISTURBED AREA FOR THIS ACCESS ROAD TO PRE-EXISTING CONDITIONS FOLLOWING THE REMOVAL OF THE ACCESS ROAD. THE ACCESS ROAD AND CONSTRUCTION MEASURES NECESSARY FOR IT SHALL FIT WITHIN THE TOTAL DISTURBED WIDTH AS SHOWN ON THESE PLANS WHICH IS NO WIDER THAN 40 FEET. AT NO TIME, SHALL THE STREAM CHANNEL DEFINED BY THE OHW LINES DEPICTED ON THESE PLANS BE DISTURBED.
- B. PRIOR TO COMMENCEMENT OF EARTH DISTURBANCE IN THE PUNCHEON RUN FLOODPLAIN, THE CONTRACTOR SHALL SUBMIT TO THE DEPARTMENT FOR APPROVAL A PROPOSED STREAM CROSSING THAT SPANS THE MAIN CHANNEL. PIPING IS NOT SPANNING. RIVULETS SHALL BE SPANNED OR PIPED. AT NO TIME SHALL THE STREAM CHANNEL BE DISTURBED. IF THE CONTRACTOR CANNOT COMPLY WITH THIS REQUIREMENT, PROPER DOCUMENTATION DESCRIBING/QUANTIFYING THE DISTURBANCE, WHETHER TEMPORARY OR PERMANENT MUST BE SUBMITTED TO THE ENGINEER FOR RESOURCE AGENCIES APPROVAL.
- C. PRIOR TO ANY OTHER WORK BETWEEN STATION 1105+00 AND 1114+00, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE ENGINEER A TOPOGRAPHIC PLAN FOR USE IN RESTORING THE TEMPORARY ACCESS ROAD. OTHER WORK INSIDE THESE BOUNDARIES MAY OCCUR ONLY FOLLOWING APPROVAL OF THE SUBMITTED PLAN BY THE ENGINEER. THE ENGINEER WILL FORWARD THE PLAN TO THE U.S. ARMY CORPS OF ENGINEERS FOR APPROVAL. THE TOPOGRAPHY MAP (DOCUMENTING PRE-CONSTRUCTION CONDITIONS) SHALL SHOW ALL GRADES AND CONTOURS BETWEEN THE CENTERLINE AND 50 FEET BEYOND THE LOC TO THE RIGHT OF THE CENTERLINE (ASSUMES WETLAND ACCESS ROAD IS TO THE RIGHT OF THE CENTERLINE). THE MAXIMUM DISTANCE BETWEEN SPOT ELEVATIONS SHALL BE 20' AND ANY ADDITIONAL SPOT ELEVATIONS SHALL BE OBTAINED AS NECESSARY TO IDENTIFY ALL BREAKS IN GRADE AND OTHER FEATURES. SPOT ELEVATIONS SHALL BE OBTAINED AND SHOWN ON THE TOPOGRAPHY PLAN TO ONE-HUNDRETH OF A FOOT. THE STREAM AND RIVULETS OF THE BRAIDED STREAM SYSTEM SHALL BE SHOWN INCLUDING BOTTOM ELEVATION AND TOP OF BANK. ANY PONDED AREA SHALL BE IDENTIFIED AND THE CORRESPONDING WATER ELEVATION SHOWN ON THE PLAN. THE PONDED AREAS SHALL BE SHADED/HIGHLIGHTED A LIGHT BLUE IN THE PLAN SUBMITTAL. THE STREAM AND RIVULET NETWORK SHALL BE SHADED/HIGHLIGHTED A LIGHT BLUE IN THE PLAN SUBMITTAL (TOP OF BANK). THE DRAWINGS SHALL BE SUBMITTED TO DELDOT IN BOTH DIGITAL AND PAPER FORMAT CONFORMING TO CURRENT DELDOT CADD STANDARDS. THESE DRAWINGS SHALL BE AT THE SAME SCALE AS THE CONSTRUCTION PLAN DRAWINGS. CONTOURS SHALL BE SHOWN ON 0.5' INTERVALS AND THE CONTOUR LINES SHALL BE LABELED FREQUENTLY ENOUGH SO THAT IT IS POSSIBLE TO CLEARLY ASCERTAIN THE ELEVATION OF ANY PARTICULAR CONTOUR LINE ANYWHERE ON THE PLAN SHEET. SPOT ELEVATIONS SHALL BE LEGIBLE, SOLID BLOCK CHARACTERS, IN A SIZE APPROPRIATE TO THE SCALE OF THE DRAWINGS AND SEPARATED AND, NOT SUPERIMPOSED, ON TOP OF ANOTHER. PAYMENT FOR THIS WORK IS INCIDENTAL TO ITEM 202508 WETLAND ACCESS ROAD, TYPE II.

- D. ALL TEMPORARY IMPACTS SHOWN ON THESE SHEETS SHALL BE RESTORED AS SPECIFIED HEREIN TO PREDISTURBANCE GRADE AND CONDITION AND STABILIZED. BRAIDED STREAMS SHALL BE RESTORED TO PREDISTURBANCE PATTERN AND PROFILE. THE EXISTING BRAIDED STREAMS AND FLOODPLAIN SHALL BE RESTORED. WETLANDS, STREAMS AND RIVULETS SHALL BE RESTORED TO THEIR ORIGINAL ELEVATIONS, +/- 0.1 FOOT, PER ITEM 202508 WETLAND ACCESS ROAD, TYPE II. EXCESS MATERIALS SHALL BE REMOVED. ALL RIVULETS SHALL BE RECONNECTED TO THE APPROPRIATE WIDTHS AND DEPTHS AS PER THE ACCEPTED TOPOGRAPHIC PLAN. IF ANY FILL MATERIAL IS NEEDED TO RESTORE GRADES, THE MATERIAL SHALL BE A SAND OR SANDY LOAM WITH A MINIMUM OF 70% SAND AND 2% ORGANIC (USDA SOIL TEXTURAL TRIANGLE). IN AREAS OF STANDING WATER GREATER THAN 1-INCH IN DEPTH, 100% SAND MAY BE PLACED TO RESTORE THE ELEVATION. PAYMENT FOR THIS WORK IS INCIDENTAL TO ITEM 202508 WETLAND ACCESS ROAD.
- E. ONCE THE ORIGINAL ELEVATIONS ARE RESTORED, THE CONTRACTOR SHALL SUBMIT AS-BUILT TOPOGRAPHIC PLANS FOR THE TEMPORARY ACCESS ROAD FOR APPROVAL BY THE RESOURCE AGENCIES. THIS PLAN SUBMITTAL SHALL MEET ALL REQUIREMENTS OF THE PRE-CONSTRUCTION SUBMITTAL AS STATED ABOVE AND SHALL BE SUBMITTED WITHIN 21 CALENDAR DAYS OF REACHING THE RESTORED GRADE. PRIOR TO APPROVING THE AS-BUILT TOPOGRAPHIC PLANS, THE ENGINEER MAY AUTHORIZE THE SEEDING.

- F. ALL RESTORED UPLAND AREAS ASSOCIATED WITH THE WETLAND ACCESS ROAD SHALL BE SEEDED AND STABILIZED PER STANDARDS, ITEM 734013 PERMANENT SEEDING - DRY GROUND. PAYMENT SHALL BE MADE UNDER ITEM 734013 PERMANENT SEEDING DRY GROUND.

- G. RESTORED WETLAND AREAS ASSOCIATED WITH THE WETLAND ACCESS ROAD SHALL BE STABILIZED WITH ITEM 734553 WETLAND MITIGATION GRASS SEED MIX. WETLAND MITIGATION GRASS SEED MIX MAY BE PLACED BETWEEN MARCH 1 OCTOBER 31, PREFERENCE IS MARCH 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 31. ALL FILL PLACEMENT AND GRADING SHALL BE COMPLETED BEFORE SEEDING. NO LIME OR FERTILIZER SHALL BE ADDED TO THE MIX. IF SOILS ARE FLOODED OR SATURATED TO THE SURFACE, NO OTHER SEEDBED PREPARATION IS REQUIRED FOR WETLAND MITIGATION GRASS SEED MIX. IF SOILS ARE FLOODED IN EXCESS OF 2-INCH DEEP, NO SEEDING IS REQUIRED.

IF SOILS ARE NOT FLOODED OR SATURATED TO THE SURFACE, IMMEDIATELY PRIOR TO THE SEEDING, THE GROUND SHALL BE TRACKED USING A LOW-GROUND PRESSURE DOZER OR CRIMPING DEVICE THAT PRODUCES HORIZONTALLY ORIENTED INDENTATIONS, A MINIMUM DEPTH OF 1.5'.

THE METHOD OF SEEDING WILL BE DETERMINED BY THE CONTRACTOR, HAND SEEDING, DROP SEEDING AND HYDROSEEDING SEEDING SHALL BE ALLOWED. IMMEDIATELY FOLLOWING PLACING THE SEED, THE SEEDED AREAS SHALL BE MULCHED WITH STRAW. STRAW FOR MULCHING SHALL BE FROM OATS, WHEAT, RYE, OR OTHER APPROVED GRAIN CROPS THAT ARE FREE FROM NOXIOUS WEEDS, MOLD, OR OTHER OBJECTIONABLE MATERIAL. STRAW MULCH SHALL BE IN AN AIR-DRY CONDITION AND SHALL BE SUITABLE FOR PLACING WITH AN APPROVED MECHANICAL BLOWER. STRAW MULCH SHALL BE APPLIED AT THE RATE OF 4000 LB/ACRE. SMALL GRAIN STRAW SHALL BE UNIFORMLY AND EVENLY APPLIED IMMEDIATELY AFTER SEEDING HAS BEEN COMPLETED. AN APPROVED MECHANICAL BLOWER SHALL BE USED TO APPLY THE STRAW. STRAW MULCH APPLIED BY THE BLOWERS SHALL PROVIDE A LOOSE DEPTH OF NOT LESS THAN 1/2" AND NO MORE THAN 2". NINETY-FIVE PERCENT OF THE BLOWN AND SHREDDED STRAW MULCH SHALL BE 6" OR MORE IN LENGTH WHEN IN PLACE. FOLLOWING THE PLACEMENT OF THE STRAW, THE SEEDED AREA SHALL BE CRIMPED OR TRACKED AGAIN. PAYMENT FOR THIS MULCHING IS INCIDENTAL TO ITEM 734553 WETLAND MITIGATION SEED MIX. PAYMENT FOR THIS WORK SHALL BE MADE UNDER ITEM 734553 WETLAND MITIGATION GRASS SEED MIX.

- H. IF DIRECTED BY THE ENGINEER, THE REMOVAL OF THE WETLAND ACCESS ROAD AND ALL SUBSEQUENT RESTORATION EFFORTS SHALL BE COMPLETED WITHIN THE NEXT 45 CALENDAR DAYS.

**6. PLANTING OF WETLAND ACCESS ROAD:**

- A. THE PLANTING OF THE WETLAND ACCESS ROAD SHALL BE MADE UNDER A SEPARATE CONTRACT. THE PLANTING IS NOT PART OF THIS PROJECT.
- B. THE DEPARTMENT SHALL COORDINATE WITH THE U.S. ARMY CORPS OF ENGINEERS AND DNREC WETLANDS ABOUT WHAT PLANT MATERIALS ARE BEST SUITED FOR THE RESTORATION BASED ON FIELD CONDITIONS FOLLOWING THE REMOVAL OF THE WETLAND ACCESS ROAD. DELDOT WILL COMMIT TO PLANT THE FIRST MARCH OR APRIL FOLLOWING REMOVAL OF THE WETLAND ACCESS ROAD. PLANTS WILL BE WOODY SEEDLINGS FROM THE MARYLAND STATE NURSERY, PRESTON MARYLAND (FORESTRY STOCK). PLANTS WILL BE NATURALIZED ON APPROXIMATE 6-FOOT CENTERS, 5-FOOT MINIMUM CENTER, 7 FOOT MAXIMUM CENTER.

**7. STAGING, STOCKPILING AND DISPOSAL:**

- A. NO STOCKPILING OR STORAGE OF EQUIPMENT, MATERIALS OR STRUCTURAL STEEL; NO STAGING AREA; AND NO INSTALLATION OF ANCILLARY FACILITIES SUCH AS CONCRETE OR ASPHALT PLANTS OR CONSTRUCTION TRAILERS SHALL BE PERMITTED ON ANY CULTURAL RESOURCE SITE OR WITHIN WETLANDS OR STREAMS OUTSIDE OF IDENTIFIED STORAGE AREAS APPROVED BY THE DELDOT ARCHAEOLOGIST. NO CONSTRUCTION MATERIALS, AGGREGATES, OR EARTH SHALL BE STOCKPILED OR STORED IN A MANNER THAT WOULD AFFECT WETLANDS OR STREAMS. STOCKPILES SHALL HAVE EROSION AND SEDIMENT CONTROLS APPROVED BY DELDOT.
- B. ALL EXCESS EXCAVATED MATERIALS NOT USED IN HIGHWAY CONSTRUCTION SHALL BE DISPOSED OF IN UPLAND, NON-WETLAND, NON-CULTURAL RESOURCE SITE(S). THE EXCAVATED MATERIAL SHALL BE PROPERLY CONTAINED AND STABILIZED TO PREVENT ITS ENTRY INTO ANY ADJACENT WETLANDS OR WATERWAYS. OUTSIDE OF ANY LOCATION DESIGNATED ON PLANS FOR DISPOSAL, NO DISPOSAL/WASTING OPERATION SHALL COMMENCE UNTIL WRITTEN APPROVAL OF THE DISPOSAL SITE(S) IS OBTAINED BY THE ENGINEER AND THE DELDOT ARCHAEOLOGIST. THE CONTRACTOR SHALL SUBMIT THE PROPOSED DISPOSAL SITE LOCATION(S) TO THE ENGINEER. THE ENGINEER WILL SUBMIT THE PROPOSED DISPOSAL SITE INFORMATION TO THE DELDOT ARCHAEOLOGIST FOR APPROVAL. THE DEPARTMENT WILL NOT CONSIDER ANY DELAYS OR MONETARY CLAIMS OF ANY NATURE RESULTING FROM DELAYS IN APPROVAL OR REJECTION OF DISPOSAL SITES OR FROM THE CONTRACTOR'S FAILURE OR DIFFICULTY IN FINDING ACCEPTABLE DISPOSAL SITES TO MEET THE TIME FRAMES AND CAPACITIES REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PLANS, EROSION AND SEDIMENTATION CONTROL MEASURES, ETC. REQUIRED BY THE APPROPRIATE REGULATORY AGENCY FOR UTILIZING OFF-SITE SPOIL AREAS.
- 8. IF A DEPARTURE FROM THE APPROVED PLANS IS NECESSARY AND FOR ALL SUBMITTALS THAT MUST BE APPROVED BY A RESOURCE AGENCY (E.G. USACE, DNREC), THE CONTRACTOR SHALL CONTACT THE ENGINEER, WHO WILL THEN NOTIFY THE ENVIRONMENTAL STUDIES OFFICE (ESO). THE ESO WILL COORDINATE WITH THE APPROPRIATE RESOURCE AGENCIES. WORK SHALL NOT PROCEED UNTIL ALL THE NECESSARY APPROVALS, PERMITS OR MODIFICATIONS ARE OBTAINED. THIS RESOURCE AGENCY APPROVAL IS IN ADDITION TO ANY APPROVAL THAT NEEDS TO BE DERIVED FROM THE ENGINEER. APPROVAL MAY TAKE A SIGNIFICANT AMOUNT OF TIME TO COMPLETE AND ALL CHANGES MAY NOT BE APPROVED. THE CONTRACTOR SHALL HAVE NO CLAIM AGAINST THE DEPARTMENT FOR COSTS OR DELAYS ASSOCIATED WITH RESOURCE AGENCY APPROVAL OR REJECTION OF CHANGES OR DEVIATIONS FROM THESE PLANS.

PERMANENT WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
7-W1	BRIDGE PIERS	62.85	0.001	N/A	USACE
8-W1	BRIDGE PIERS	62.85	0.001	N/A	USACE
8-W2	BRIDGE PIERS	62.85	0.001	N/A	USACE
8-W3	BRIDGE PIERS	62.85	0.001	N/A	USACE
TOTAL FOR CROSSING		251.40	0.004	N/A	

TEMPORARY WETLAND IMPACT AREA SCHEDULE					
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
7-WT1	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	10879.57	0.250	N/A	USACE
7-WT2	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	557.78	0.013	N/A	USACE
7-WT3	TEMPORARY ACCESS RD	8489.03	0.195	N/A	USACE
7-WT4	TEMPORARY ACCESS RD	745.93	0.017	N/A	USACE
7-WT5	BRIDGE RIP RAP RECESSED	704.70	0.016	N/A	USACE
7-WT6	BRIDGE RIP RAP RECESSED	68.65	0.002	N/A	USACE
7-WT7	BRIDGE RIP RAP RECESSED	56.58	0.001	N/A	USACE
8-WT1	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	155.80	0.004	N/A	USACE
8-WT2	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	955.64	0.022	N/A	USACE
8-WT3	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	5714.81	0.131	N/A	USACE
8-WT4	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	1022.00	0.023	N/A	USACE
8-WT5	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	623.03	0.014	N/A	USACE
8-WT6	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	878.18	0.020	N/A	USACE
8-WT7	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	24866.55	0.571	N/A	USACE
8-WT8	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	1948.68	0.045	N/A	USACE
8-WT9	TEMPORARY ACCESS RD	7190.34	0.165	N/A	USACE
8-WT10	TEMPORARY ACCESS RD	599.51	0.014	N/A	USACE
8-WT11	TEMPORARY ACCESS RD	1267.26	0.029	N/A	USACE
8-WT12	TEMPORARY ACCESS RD	21893.03	0.503	N/A	USACE
8-WT13	BRIDGE RIP RAP RECESSED	705.16	0.016	N/A	USACE
8-WT14	BRIDGE RIP RAP RECESSED	189.03	0.004	N/A	USACE
TOTAL FOR CROSSING		89511.26	2.055	N/A	

**ADDENDUMS / REVISIONS**

**NOT TO SCALE**

**WEST DOVER CONNECTOR**



CONTRACT	BRIDGE NO.
T20041701	
COUNTY	DESIGNED BY: SE
KENT	CHECKED BY: TH

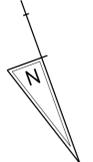
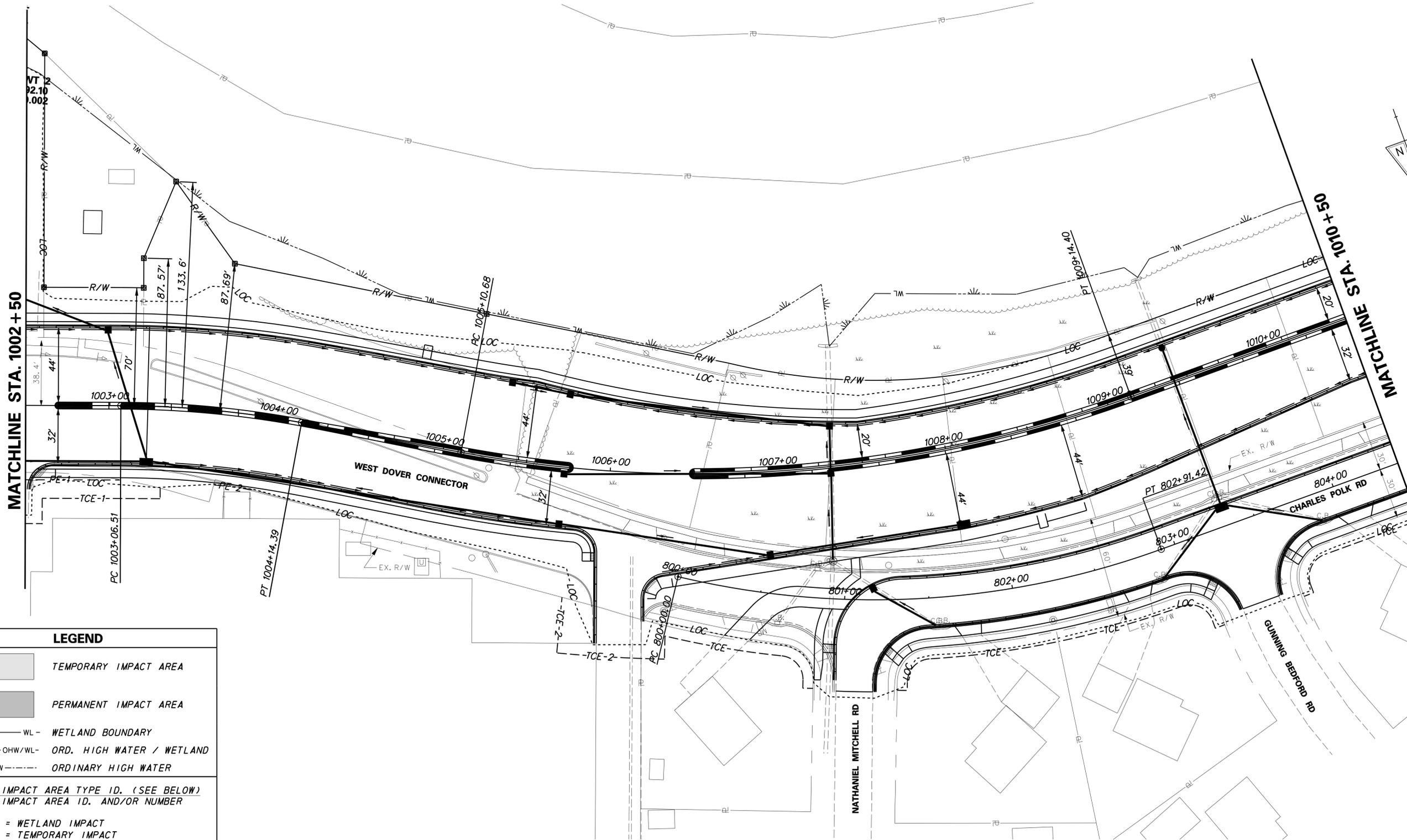
**ENVIRONMENTAL COMPLIANCE NOTES**

EC-03
SHEET NO.
204
TOTAL SHTS.
320

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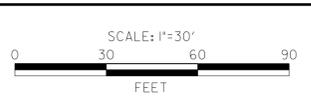
# NO IMPACTS ON THIS SHEET



LEGEND	
	TEMPORARY IMPACT AREA
	PERMANENT IMPACT AREA
	WL - WETLAND BOUNDARY
	ORD. HIGH WATER / WETLAND
	ORDINARY HIGH WATER
	IMPACT AREA TYPE ID. (SEE BELOW) IMPACT AREA ID. AND/OR NUMBER
W	WETLAND IMPACT
T	TEMPORARY IMPACT
O	OPEN WATER IMPACT

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ADDENDUMS / REVISIONS



**WEST DOVER CONNECTOR**

CONTRACT T20041701	BRIDGE NO.
COUNTY KENT	DESIGNED BY: SE
	CHECKED BY: TH

**ENVIRONMENTAL COMPLIANCE PLAN**

EC-05
SHEET NO. 206
TOTAL SHTS. 320

**LEGEND**

TEMPORARY IMPACT AREA

PERMANENT IMPACT AREA

CREATION AREA

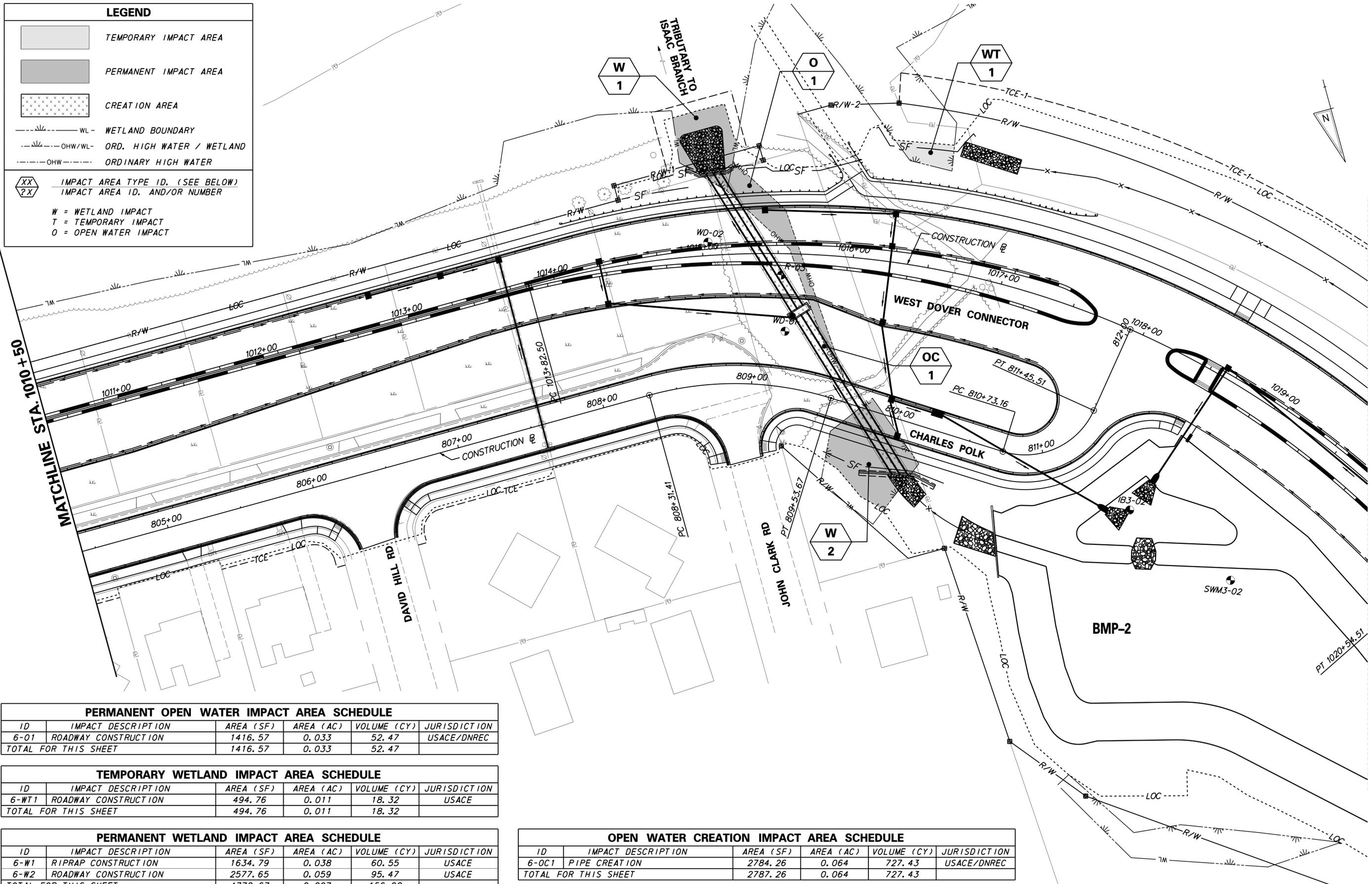
WL - WETLAND BOUNDARY

OHW/WL - ORD. HIGH WATER / WETLAND

OHW - ORDINARY HIGH WATER

XX  
?X  
IMPACT AREA TYPE ID. (SEE BELOW)  
IMPACT AREA ID. AND/OR NUMBER

W = WETLAND IMPACT  
T = TEMPORARY IMPACT  
O = OPEN WATER IMPACT



**PERMANENT OPEN WATER IMPACT AREA SCHEDULE**

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
6-O1	ROADWAY CONSTRUCTION	1416.57	0.033	52.47	USACE/DNREC
<b>TOTAL FOR THIS SHEET</b>		1416.57	0.033	52.47	

**TEMPORARY WETLAND IMPACT AREA SCHEDULE**

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
6-WT1	ROADWAY CONSTRUCTION	494.76	0.011	18.32	USACE
<b>TOTAL FOR THIS SHEET</b>		494.76	0.011	18.32	

**PERMANENT WETLAND IMPACT AREA SCHEDULE**

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
6-W1	RIPRAP CONSTRUCTION	1634.79	0.038	60.55	USACE
6-W2	ROADWAY CONSTRUCTION	2577.65	0.059	95.47	USACE
<b>TOTAL FOR THIS SHEET</b>		4772.67	0.097	156.02	

**OPEN WATER CREATION IMPACT AREA SCHEDULE**

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
6-OC1	PIPE CREATION	2784.26	0.064	727.43	USACE/DNREC
<b>TOTAL FOR THIS SHEET</b>		2787.26	0.064	727.43	

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ADDENDUMS / REVISIONS



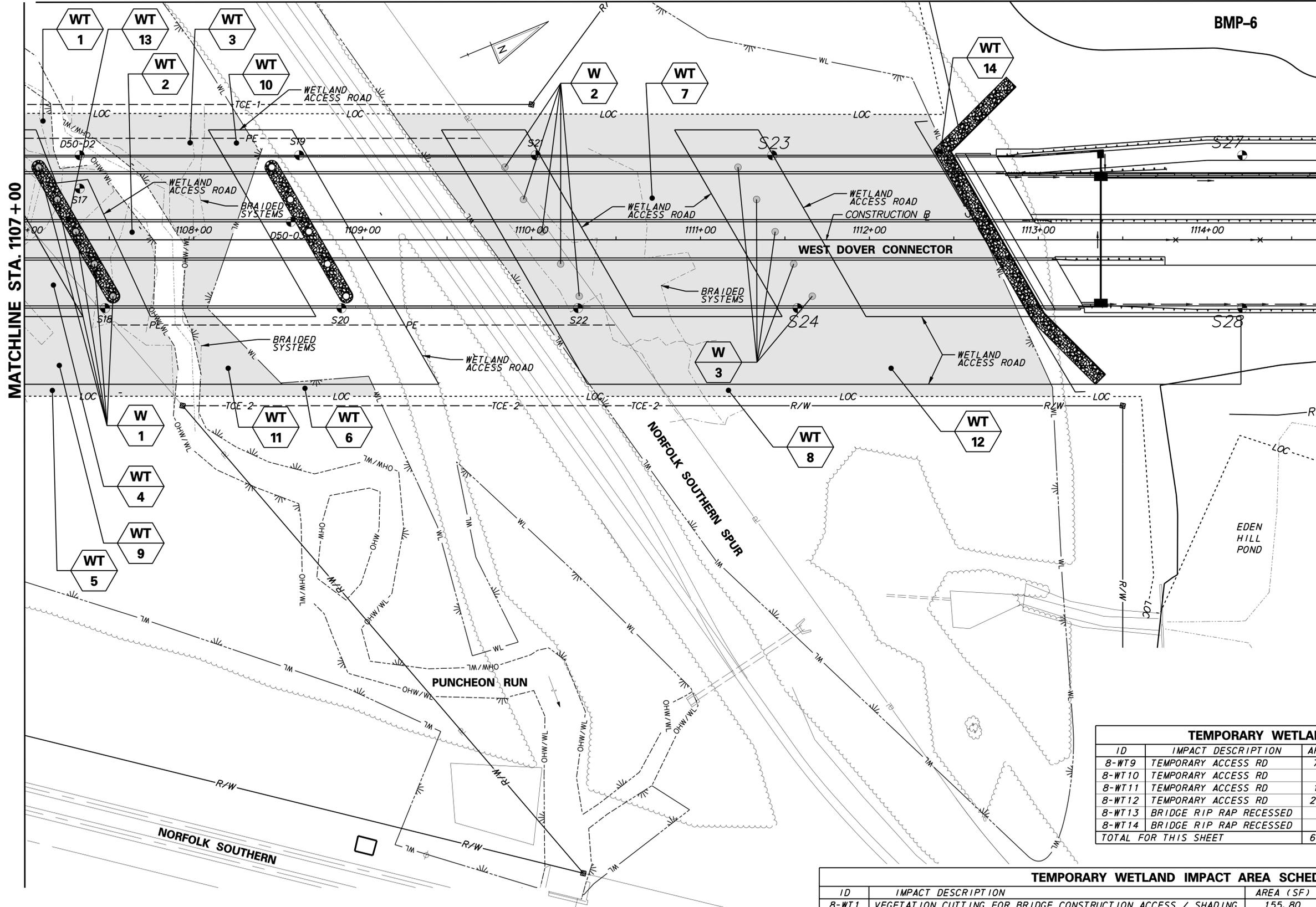
**WEST DOVER CONNECTOR**

CONTRACT	BRIDGE NO.
T200411701	
COUNTY	DESIGNED BY: SE
KENT	CHECKED BY: TH

**ENVIRONMENTAL COMPLIANCE PLAN**

EC-06
SHEET NO.
207
TOTAL SHTS.
320





**LEGEND**

- TEMPORARY IMPACT AREA
- PERMANENT IMPACT AREA
- WL - WETLAND BOUNDARY
- ORD. HIGH WATER / WETLAND
- ORDINARY HIGH WATER
- XX - IMPACT AREA TYPE ID. (SEE BELOW)
- ?X - IMPACT AREA ID. AND/OR NUMBER
- W = WETLAND IMPACT
- T = TEMPORARY IMPACT
- O = OPEN WATER IMPACT

**NOTES:**

- IN STREAM WORK IN THE MAIN CHANNEL OF PUNCHEON RUN IS NOT PERMITTED. CONTRACTOR SHALL SUBMIT FOR APPROVAL DESIGN FOR 3 SIDED STRUCTURE TO SPAN STREAM CHANNEL PRIOR TO CONSTRUCTION. 3 SIDED STRUCTURE MUST FIT WITHIN DISTURBANCE FOOTPRINT SHOWN.
- THE BRAIDED STREAM SYSTEMS AND ORDINARY HIGH WATER MARKS ARE NOT SHOWN ON THE USACE JURISDICTIONAL DETERMINATION (JD) PLANS. AT THE REQUEST OF EDWARD BONNER OF USACE, THEY ARE SHOWN HERE IN ORDER TO AID IN RESTORATION EFFORTS ONCE CONSTRUCTION IS COMPLETE.

**TEMPORARY WETLAND IMPACT AREA SCHEDULE**

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
8-WT9	TEMPORARY ACCESS RD	7190.34	0.165	N/A	USACE
8-WT10	TEMPORARY ACCESS RD	599.51	0.014	N/A	USACE
8-WT11	TEMPORARY ACCESS RD	1267.26	0.029	N/A	USACE
8-WT12	TEMPORARY ACCESS RD	21893.03	0.503	N/A	USACE
8-WT13	BRIDGE RIP RAP RECESSED	705.16	0.016	N/A	USACE
8-WT14	BRIDGE RIP RAP RECESSED	189.03	0.004	N/A	USACE
<b>TOTAL FOR THIS SHEET</b>		<b>68009.02</b>	<b>1.561</b>	<b>N/A</b>	

**PERMANENT WETLAND IMPACT AREA SCHEDULE**

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
8-W1	BRIDGE PIERS	62.85	0.001	N/A	USACE
8-W2	BRIDGE PIERS	62.85	0.001	N/A	USACE
8-W3	BRIDGE PIERS	62.85	0.001	N/A	USACE
<b>TOTAL FOR THIS SHEET</b>		<b>188.55</b>	<b>0.003</b>	<b>N/A</b>	

**TEMPORARY WETLAND IMPACT AREA SCHEDULE**

ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION
8-WT1	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	155.80	0.004	N/A	USACE
8-WT2	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	955.64	0.022	N/A	USACE
8-WT3	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	5714.81	0.131	N/A	USACE
8-WT4	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	1022.00	0.023	N/A	USACE
8-WT5	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	623.03	0.014	N/A	USACE
8-WT6	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	878.18	0.020	N/A	USACE
8-WT7	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	24866.55	0.571	N/A	USACE
8-WT8	VEGETATION CUTTING FOR BRIDGE CONSTRUCTION ACCESS / SHADING	1948.68	0.045	N/A	USACE

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ADDENDUMS / REVISIONS



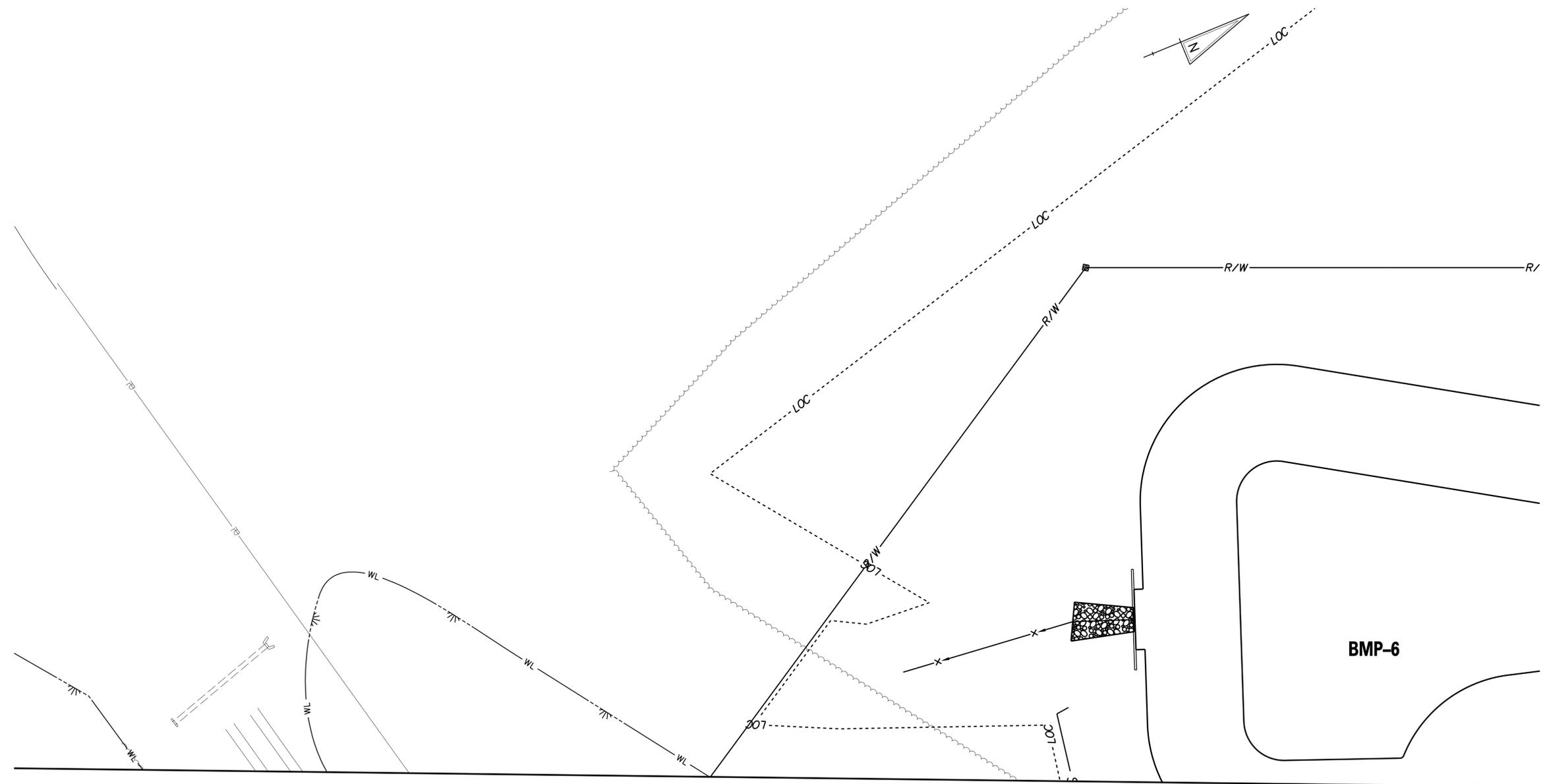
**WEST DOVER CONNECTOR**

CONTRACT	BRIDGE NO.
T200411701	
COUNTY	DESIGNED BY: SE
KENT	CHECKED BY: TH

**ENVIRONMENTAL COMPLIANCE PLAN**

EC-08
SHEET NO.
209
TOTAL SHTS.
320

# NO IMPACTS ON THIS SHEET



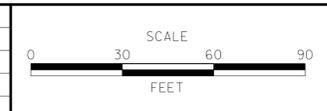
MATCHLINE SEE SHEET 209

LEGEND	
	TEMPORARY IMPACT AREA
	PERMANENT IMPACT AREA
- - - WL - - -	WETLAND BOUNDARY
- - - OHW/WL - - -	ORD. HIGH WATER / WETLAND
- - - OHW - - -	ORDINARY HIGH WATER
XX ?X	IMPACT AREA TYPE ID. (SEE BELOW) IMPACT AREA ID. AND/OR NUMBER
W	= WETLAND IMPACT
T	= TEMPORARY IMPACT
O	= OPEN WATER IMPACT

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ADDENDUMS / REVISIONS



WEST DOVER CONNECTOR

CONTRACT T200411701	BRIDGE NO.	
COUNTY KENT	DESIGNED BY: SE	
	CHECKED BY: TH	

ENVIRONMENTAL  
COMPLIANCE PLAN

EC-09
SHEET NO. 210
TOTAL SHTS. 320





**MOT GENERAL NOTES**

1. MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATION TA-3,TA-10, TA-11B, TA-27, TA-30 AND TA-33 OF THE DELAWARE MUTCD.
2. GRADING AND MAINTAINING HOT MIX TEMPORARY ROADWAY MATERIAL THAT IS BEING USED AS A TEMPORARY TRAVELWAY, DRIVEWAY, ACCESS RAMP, ETC. SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC. EXCESS HOT MIX TEMPORARY ROADWAY MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR HOT MIX TEMPORARY ROADWAY MATERIAL PAY ITEM. NO SEPARATE 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. 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.
4. A TYPE II TRUCK MOUNTED ATTENUATOR (TMA) SHALL BE REQUIRED ON THIS PROJECT DURING THE FOLLOWING OPERATIONS: TEMPORARY/PERMANENT PAVEMENT MARKINGS, ROADSIDE SPRAYING, PATCHING, MILLING, SWEEPING, TEMPORARY TRAFFIC BARRIER PLACEMENT OR AS DIRECTED BY THE ENGINEER. THE ROLL AHEAD DISTANCE SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS. THE TMA SHALL CONFORM TO THE REQUIREMENTS OF SECTION 6F OF THE DELAWARE MUTCD.
5. ACCEPTABLE MATERIALS FOR TEMPORARY PEDESTRIAN PATHS SHALL INCLUDE CONCRETE, HOT-MIX, COMPACTED MILLINGS OR PLYWOOD WALKWAY STRUCTURE. PLYWOOD WALKWAY STRUCTURES SHALL ALSO INCLUDE DETECTABLE EDGING AND RAILINGS IN ACCORDANCE WITH ADA GUIDELINES AND THE DELAWARE MUTCD. TEMPORARY PEDESTRIAN PATHS SHALL BE INCIDENTAL TO ITEM 743000 UNLESS OTHERWISE SPECIFIED IN THE PLANS. STONE OR GRADED AGGREGATE BASE COURSE SHALL NOT BE USED FOR TEMPORARY PEDESTRIAN PATHS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH OTHER CONTRACTORS IN THE AREA.
7. ANY SHORT-TERM LANE RESTRICTIONS SHALL ONLY OCCUR DURING NIGHTTIME CONSTRUCTION OPERATIONS BETWEEN THE HOURS OF 9:00 PM AND 6:00 AM.
8. THE CONTRACTOR IS RESPONSIBLE FOR THE MAINTENANCE OF EXISTING PAVEMENT WITHIN THE PROJECT LIMITS FOR THE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER. THE COST OF ALL TEMPORARY ROADS, DETOURS AND PAVEMENT WIDENING SHALL BE PAID UNDER THE RESPECTIVE BID ITEMS AND NOT UNDER "HOT-MIX TRM" ITEM. THE USE OF ITEM 402000 SHALL BE USED ONLY AS DIRECTED BY THE ENGINEER OR AS INDICATED ON PLANS.
9. THE CONTRACTOR SHALL SUPPLY MESSAGE BOARDS UNDER ITEM 743004 - FURNISH AND MAINTAIN PORTABLE CHANGEABLE MESSAGE SIGN. MOVING THE MESSAGE BOARD TO DIFFERENT LOCATIONS DURING CONSTRUCTION WILL BE INCIDENTAL TO ITEM 743514. AT A MINIMUM, MESSAGE BOARDS SHALL BE POSTED TWO WEEKS PRIOR TO THE START OF CONSTRUCTION AND CHANGES IN TRAFFIC PATTERNS, SIX PLASTIC DRUMS SHALL BE PLACED IN FRONT OF THE MESSAGE BOARD.
10. UNLESS OTHERWISE NOTED ON PLANS, THE COST OF ANY FLOODLIGHTING NECESSARY DUE TO WORK OCCURRING AFTER DARK WILL BE PAID FOR UNDER ITEM 743005 - FURNISH AND MAINTAIN PORTABLE LIGHT ASSEMBLY.
11. ENTRANCE AND SIDE ROAD TIE-IN AREAS SHALL BE CONSTRUCTED ONLY TO THE EXTENT THAT CAN BE PAVED OR TEMPORARILY STABILIZED WITH HOT MIX TEMPORARY ROADWAY MATERIAL AT THE END OF A WORK DAY.
12. ALL TEMPORARY PAVEMENT MARKINGS SHALL BE TEMPORARY PAINT WHEN INSTALLED ON EXISTING OR TEMPORARY PAVEMENT, OR WHEN INSTALLED ON NEW PAVEMENT FOR TEMPORARY TRAFFIC PATTERNS, UNLESS OTHERWISE INDICATED ON PLANS OR DIRECTED BY THE ENGINEER. TEMPORARY STRIPING SHALL NOT BE INSTALLED ON THE FINAL SURFACE COURSE OF NEW PAVEMENT UNLESS IT IS REMOVABLE TAPE MATERIAL. WHERE PAVEMENT MARKINGS ARE NOT INDICATED ON THE PLANS, THE PAVEMENT MARKINGS FROM THE PREVIOUS STAGE ARE TO BE MAINTAINED OR THE FINAL PROPOSED PERMANENT MARKINGS ARE TO BE INSTALLED AND MAINTAINED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
13. 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 MATERIAL TO PROVIDE AND MAINTAIN THIS DRAINAGE SHALL BE INCIDENTAL TO ITEM 743000 - MAINTENANCE OF TRAFFIC.
14. THE CONTRACTOR SHALL PLACE A WEDGE OF HOT-MIX AT 20:1 AROUND CONSTRUCTED DRAINAGE INLETS PRIOR TO PLACEMENT OF FINAL TYPE C PAVING. THE CONTRACTOR SHALL NOTCH DRAINAGE INLETS TO MAINTAIN DRAINAGE CONDITIONS ALONG THE ROADWAY PRIOR TO PLACEMENT OF TYPE C FINAL HOT-MIX PAVING, NOTCHES SHALL BE PREPARED TO PROPER CONDITION PRIOR TO OVERLAY. COST OF THIS WORK SHALL BE INCIDENTAL TO ITEM 710001 - ADJUSTING AND PREPARING EXISTING DRAINAGE INLET.
15. PHASE 1 MUST BE COMPLETED PRIOR TO BEGINNING WORK SHOWN IN PHASE 2. WORK WITHIN PHASE 2 CAN OCCUR SIMULTANEOUSLY AT THE US-13/WEST DOVER CONNECTOR AND NORTH STREET/WEST DOVER CONNECTOR INTERSECTIONS. AT US-13 INTERSECTION, STAGE 1 MUST BE COMPLETED PRIOR TO BEGINNING STAGE 2. AT NORTH STREET INTERSECTION, STAGES 3, 4, AND 5 MUST BE COMPLETED IN ORDER.

CONSTRUCTION PHASING & M.O.T	
	WORK AREA THIS PHASE
	TEMPORARY PEDESTRIAN PATHWAY MAINTAINED THROUGH WORK AREA
	CONCRETE SAFETY BARRIER - PORTABLE
	PHASING TRAFFIC FLOW ARROW
	TEMPORARY PAVEMENT MARKING ARROW
	BARRICADE, TYPE 3
	CONSTRUCTION WARNING SIGN LOCATION
	CONSTRUCTION WARNING SIGN
	DRUM - TRAFFIC CONTROL
	FLAGGER LOCATION

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ADDENDUMS / REVISIONS	

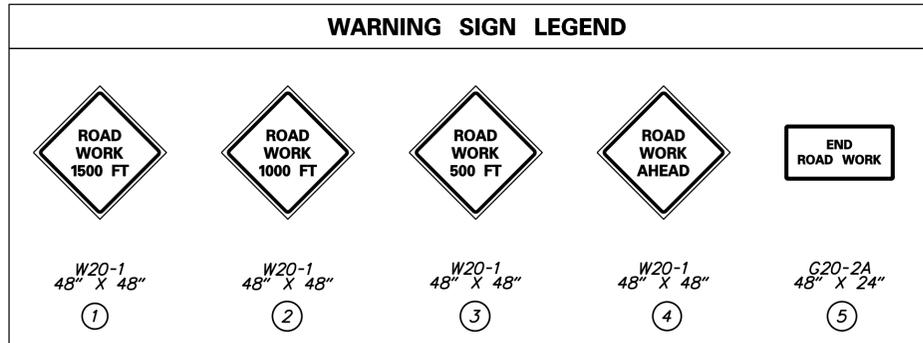
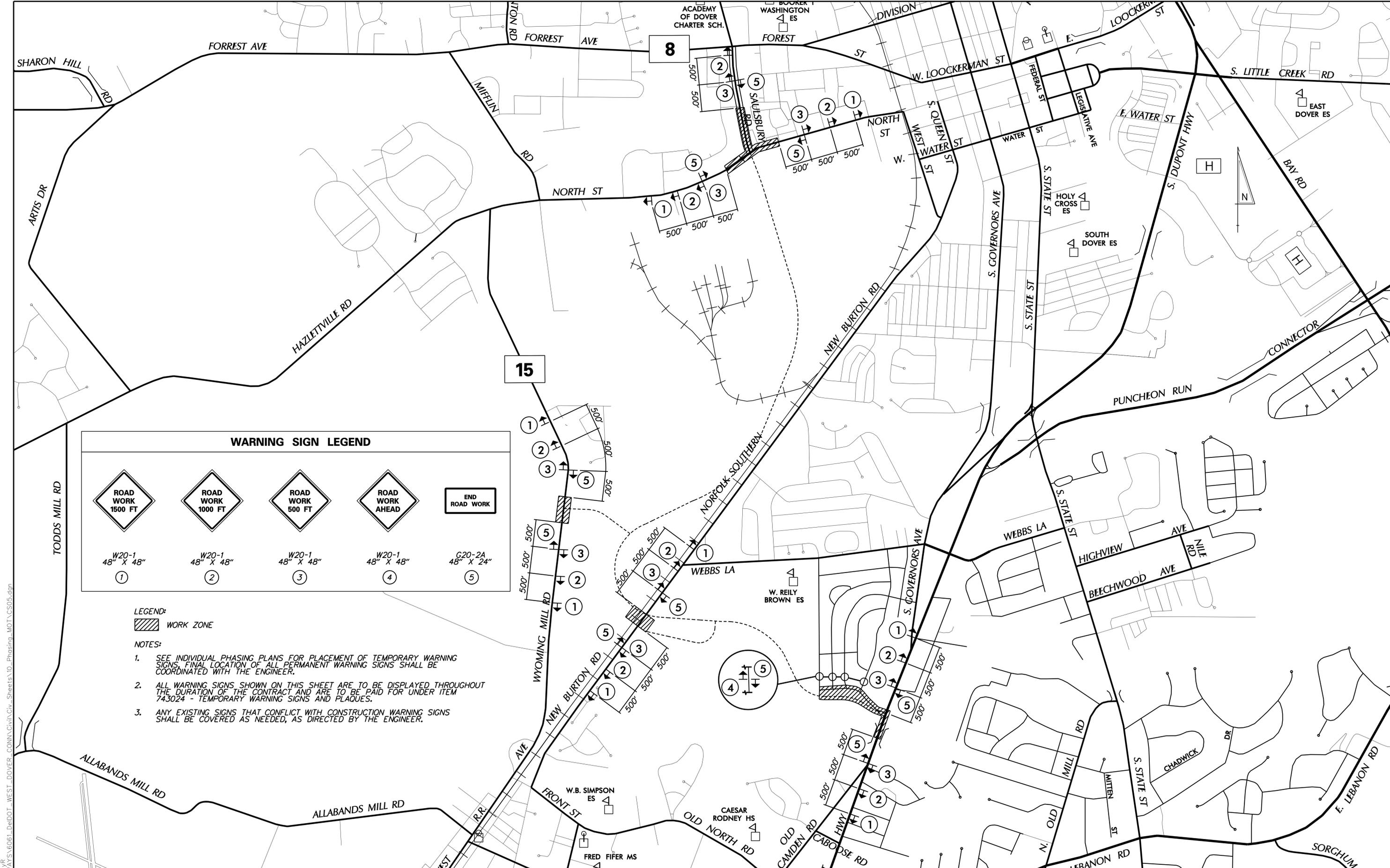
**WEST DOVER CONNECTOR**

CONTRACT	BRIDGE NO.
T200411701	
COUNTY	DESIGNED BY: KM/JP
KENT	CHECKED BY: JS/SS

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN**

SHEET NO.	213
TOTAL SHTS.	320





**LEGEND:**

WORK ZONE

**NOTES:**

1. SEE INDIVIDUAL PHASING PLANS FOR PLACEMENT OF TEMPORARY WARNING SIGNS. FINAL LOCATION OF ALL PERMANENT WARNING SIGNS SHALL BE COORDINATED WITH THE ENGINEER.
2. 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 - TEMPORARY WARNING SIGNS AND PLAQUES.
3. ANY EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION WARNING SIGNS SHALL BE COVERED AS NEEDED, AS DIRECTED BY THE ENGINEER.

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ADDENDUMS / REVISIONS

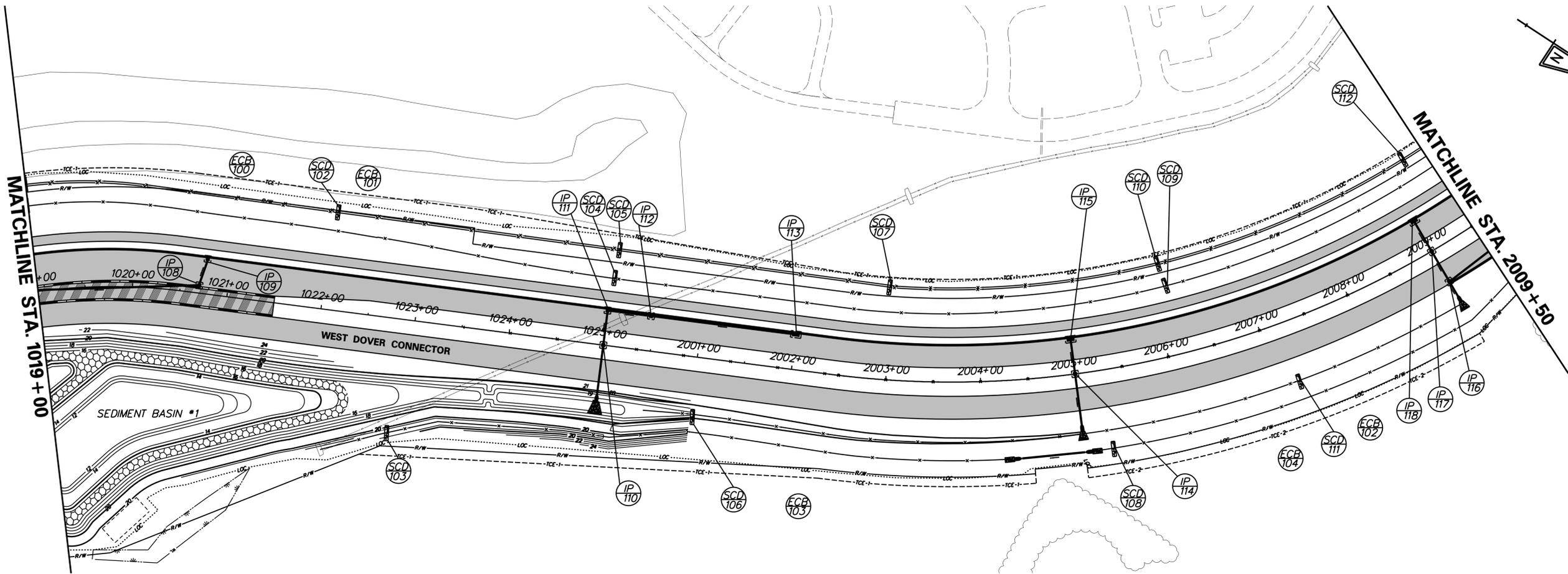
**NOT TO SCALE**

**WEST DOVER CONNECTOR**

CONTRACT T20041701	BRIDGE NO.
COUNTY KENT	DESIGNED BY: KM/JP
	CHECKED BY: JS/SS

**CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - WARNING SIGN PLAN**

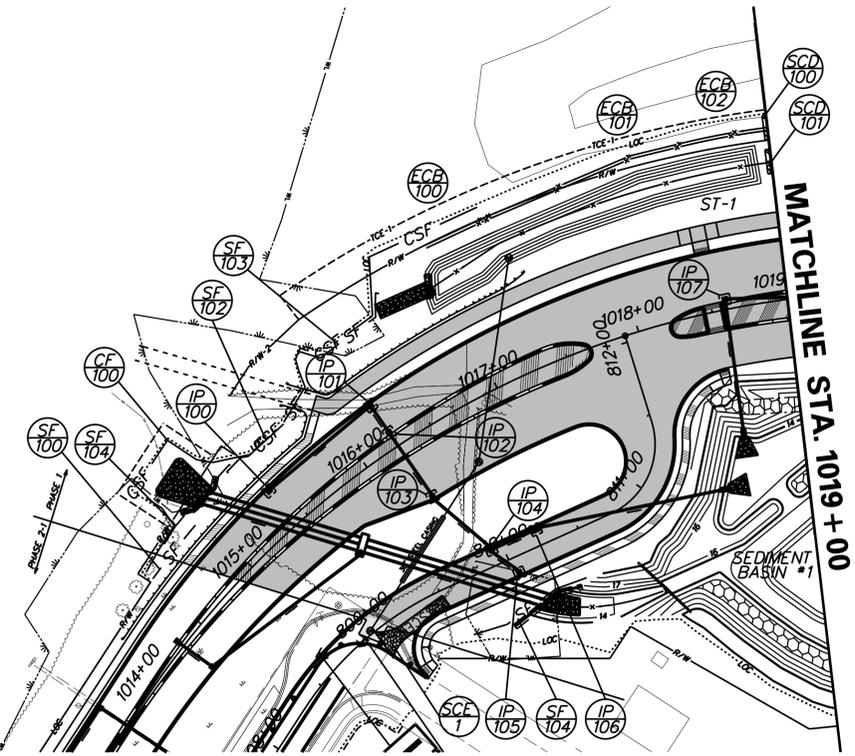
SHEET NO. 215
TOTAL SHTS. 320



TEMPORARY SEDIMENT TRAP						
NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. EL.	CLEAN EL.
ST-1	2.69 AC	240	30	5	20.9'	19.7'

CONSTRUCTION FENCE			
NO.	STATION FROM	STATION TO	LENGTH
100	1014+53	1017+35	439 LF

SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
100	1014+52	1014+94	45 LF
101	1014+73	1015+34	68 LF
102	1015+30	1016+00	80 LF
103	1016+06	1016+64	80 LF
104	809+59	810+42	84 LF

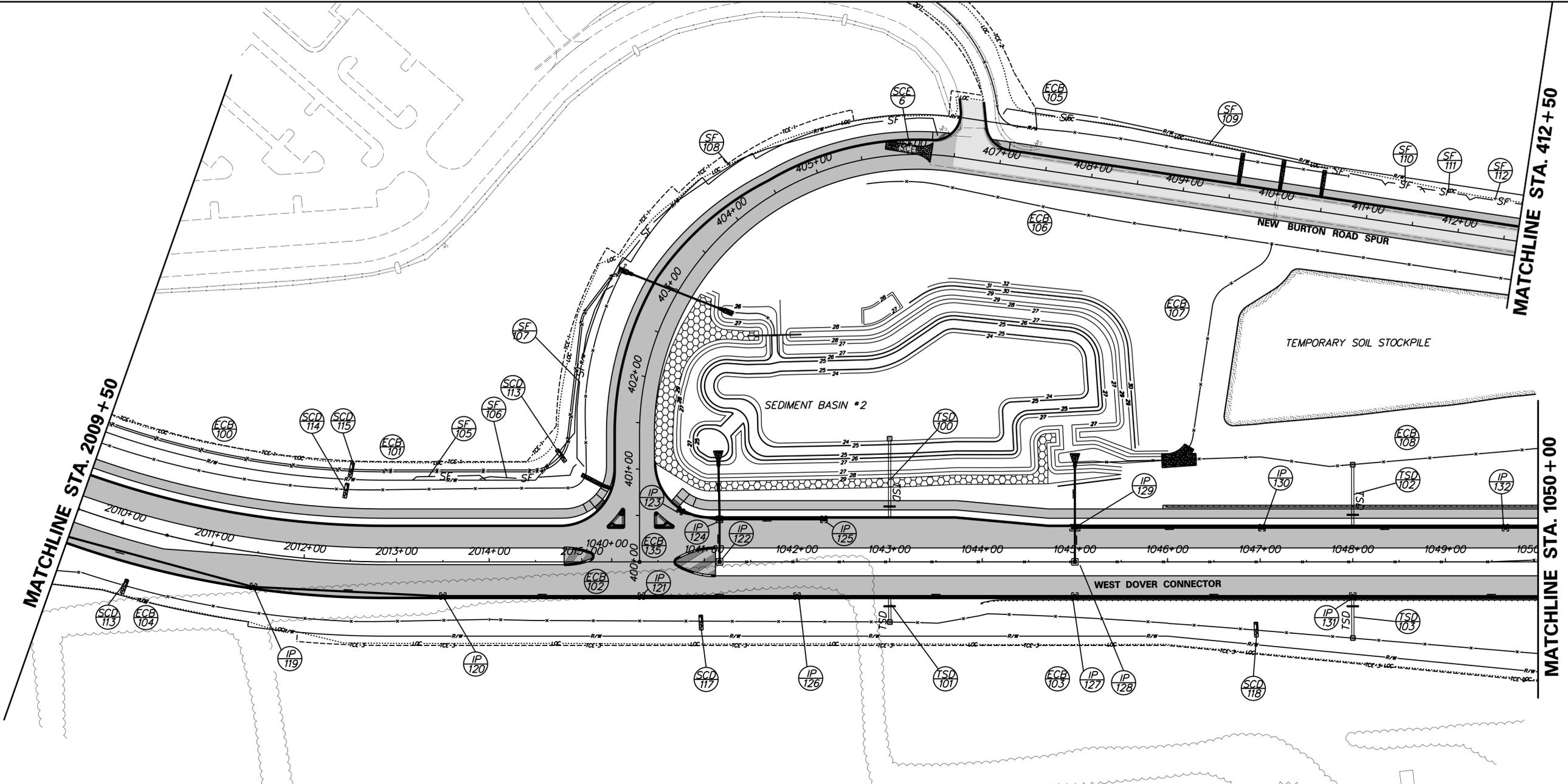


TEMPORARY SWALE			
NO.	TYPE	B	D
1	SEED & MULCH	6'	1'

SEDIMENT BASIN SCHEDULE						
NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. EL.	CLEAN EL.
1	8.97	427	90	8	15.08'	13.45'

EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
100	1911	1016+87	2009+50	5
101	1893	1017+00	2009+50	5
102	4732	1018+22	2009+50	5
103	1035	2001+00	2009+50	5
104	747	2001+00	2009+50	5

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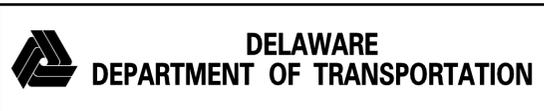


EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
100	881	2009+50	402+99	5
101	801	2009+50	402+87	5
102	1410	2009+50	1039+81	5
103	1812	2009+50	1050+00	5
104	94	2009+50	2010+00	5
105	462	406+34	410+48	5
106	769	405+50	412+50	5
107	316	408+25	1046+14	5
108	502	1045+50	1050+00	5
109	3056	1040+69	1050+00	5

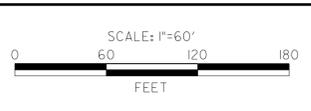
SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
105	2013+17	2013+97	83 LF
106	2013+90	2014+94	112 LF
107	401+03	402+74	208 LF
108	402+90	406+31	412 LF
109	406+95	411+16	426 LF
110	411+14	411+58	48 LF
111	411+53	412+08	58 LF
112	412+08	412+50	58 LF

SEDIMENT BASIN SCHEDULE						
NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. EL.	CLEAN EL.
2	11.55	470	210	4	26.08'	24.70'

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ADDENDUMS / REVISIONS	

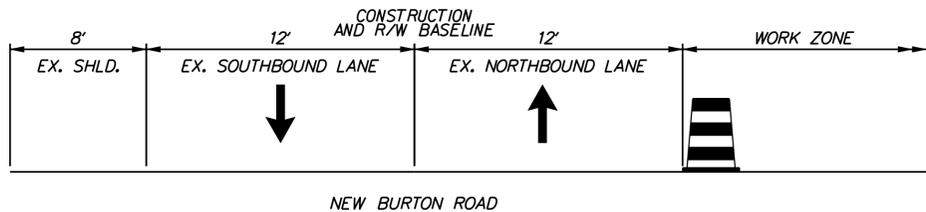


**WEST DOVER CONNECTOR**

CONTRACT T20041701	BRIDGE NO.
COUNTY KENT	DESIGNED BY: KM/JP
	CHECKED BY: JS/SS

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

SHEET NO. 217
TOTAL SHTS. 320

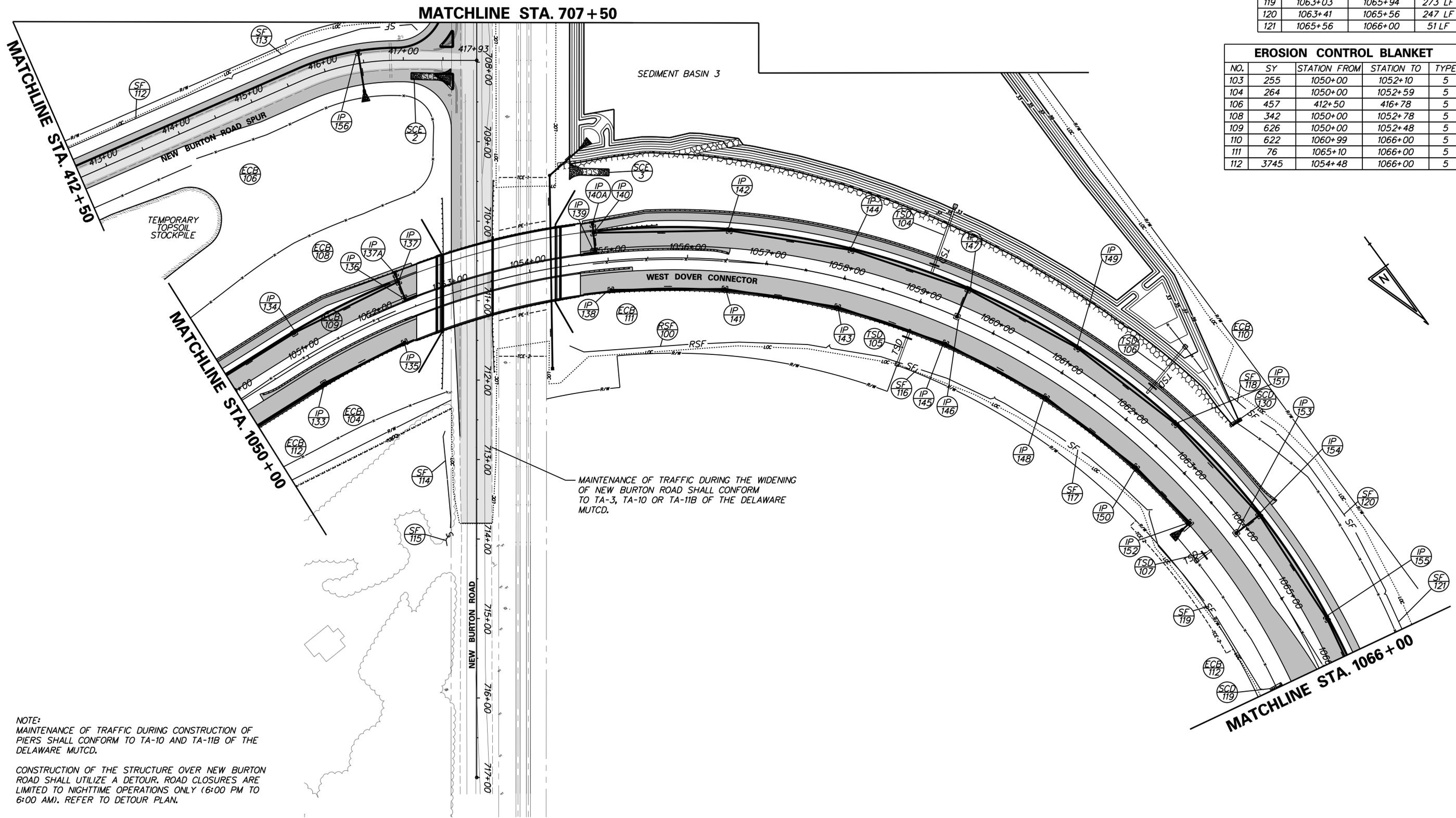


SEDIMENT BASIN SCHEDULE						
NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. EL.	CLEAN EL.
3	58.36	349	134	4.0	NA	35.42'

REINFORCED SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
100	1054+34	1058+03	333 LF

SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
112	412+50	414+89	226 LF
113	414+89	417+18	250 LF
114	712+64	713+98	135 LF
115	714+14	173+95	21 LF
116	1058+02	1060+41	221 LF
117	1060+40	1063+05	248 LF
118	1062+74	1063+39	75 LF
119	1063+03	1065+94	273 LF
120	1063+41	1065+56	247 LF
121	1065+56	1066+00	51 LF

EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
103	255	1050+00	1052+10	5
104	264	1050+00	1052+59	5
106	457	412+50	416+78	5
108	342	1050+00	1052+78	5
109	626	1050+00	1052+48	5
110	622	1060+99	1066+00	5
111	76	1065+10	1066+00	5
112	3745	1054+48	1066+00	5

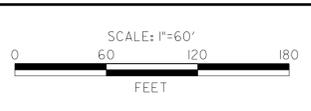


MAINTENANCE OF TRAFFIC DURING THE WIDENING OF NEW BURTON ROAD SHALL CONFORM TO TA-3, TA-10 OR TA-11B OF THE DELAWARE MUTCD.

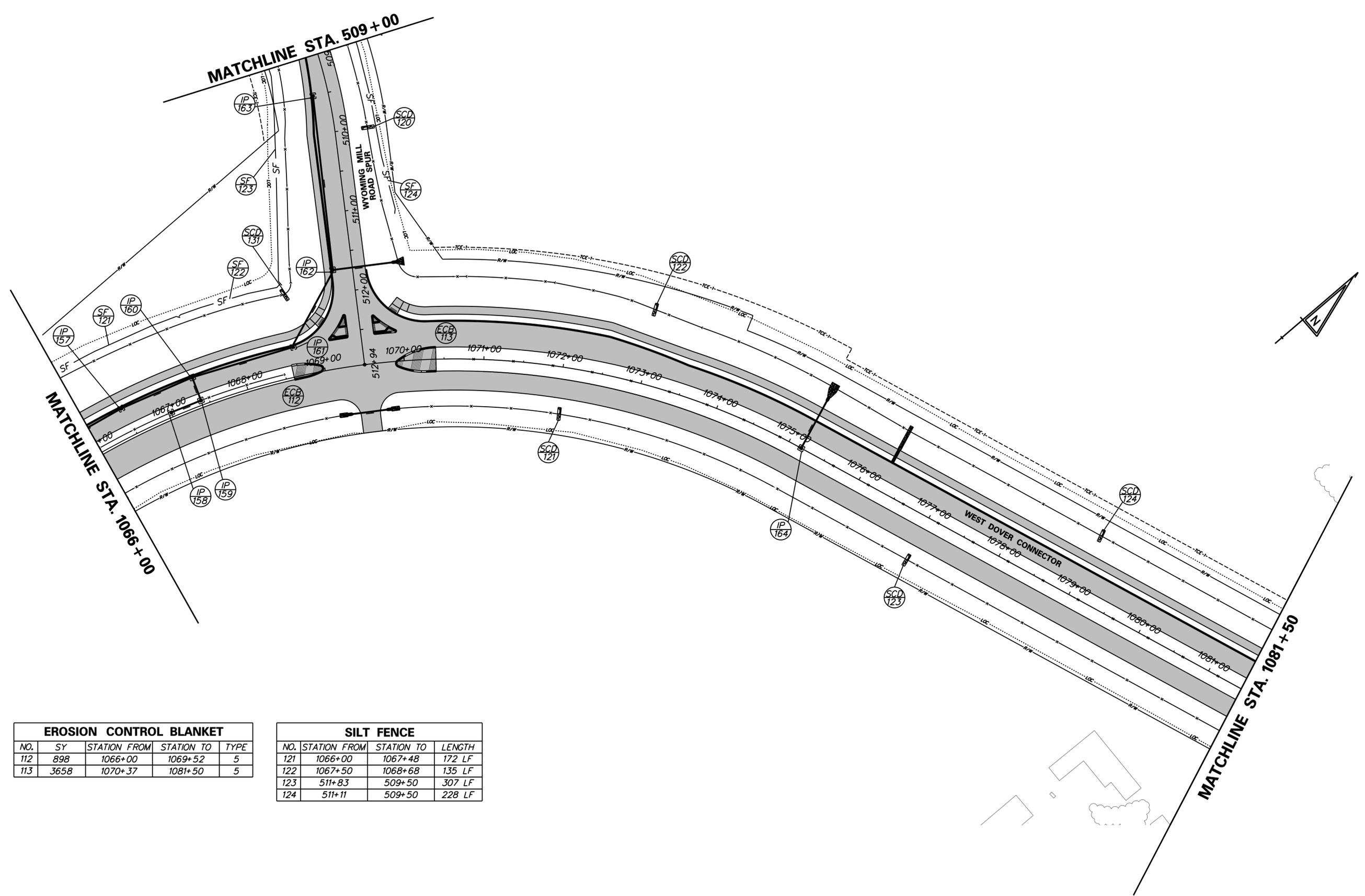
NOTE:  
 MAINTENANCE OF TRAFFIC DURING CONSTRUCTION OF PIERS SHALL CONFORM TO TA-10 AND TA-11B OF THE DELAWARE MUTCD.  
 CONSTRUCTION OF THE STRUCTURE OVER NEW BURTON ROAD SHALL UTILIZE A DETOUR. ROAD CLOSURES ARE LIMITED TO NIGHTTIME OPERATIONS ONLY (6:00 PM TO 6:00 AM). REFER TO DETOUR PLAN.

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ADDENDUMS / REVISIONS



CONTRACT T200411701	BRIDGE NO.
COUNTY KENT	DESIGNED BY: KM/JP
	CHECKED BY: JS/SS

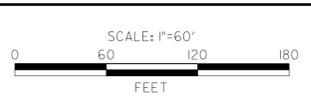


EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
112	898	1066+00	1069+52	5
113	3658	1070+37	1081+50	5

SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
121	1066+00	1067+48	172 LF
122	1067+50	1068+68	135 LF
123	511+83	509+50	307 LF
124	511+11	509+50	228 LF

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ADDENDUMS / REVISIONS	

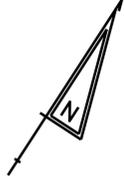
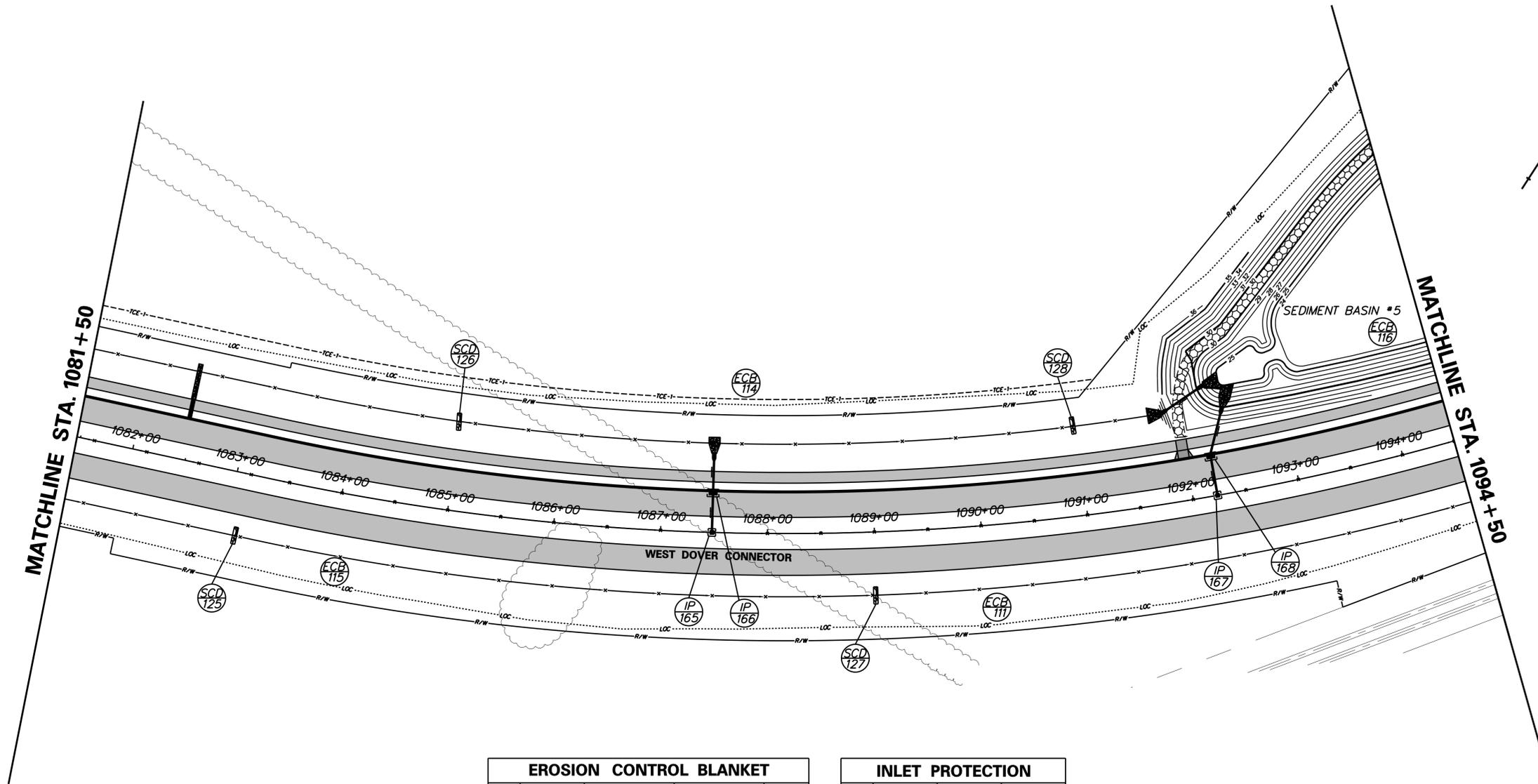


**WEST DOVER CONNECTOR**

CONTRACT	BRIDGE NO.
T200411701	
COUNTY	DESIGNED BY: KM/JP
KENT	CHECKED BY: JS/SS

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

SHEET NO.
219
TOTAL SHTS.
320



EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
111	1184	1081+50	1094+50	5
114	1136	1081+50	1091+99	5
115	4345	1081+50	1094+50	5
116	36	1094+00	1094+50	5

INLET PROTECTION			
NO.	STATION	OFFSET	TYPE
165	1087+48	0'	TYPE 2
166	1087+48	37' LT	TYPE 2
167	1092+23	0'	TYPE 2
168	1092+23	37' LT	TYPE 2

SEDIMENT BASIN SCHEDULE						
NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. EL.	CLEAN EL.
5	39.28	598	240	5	26.24'	25.58'

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ADDENDUMS / REVISIONS	



**WEST DOVER CONNECTOR**

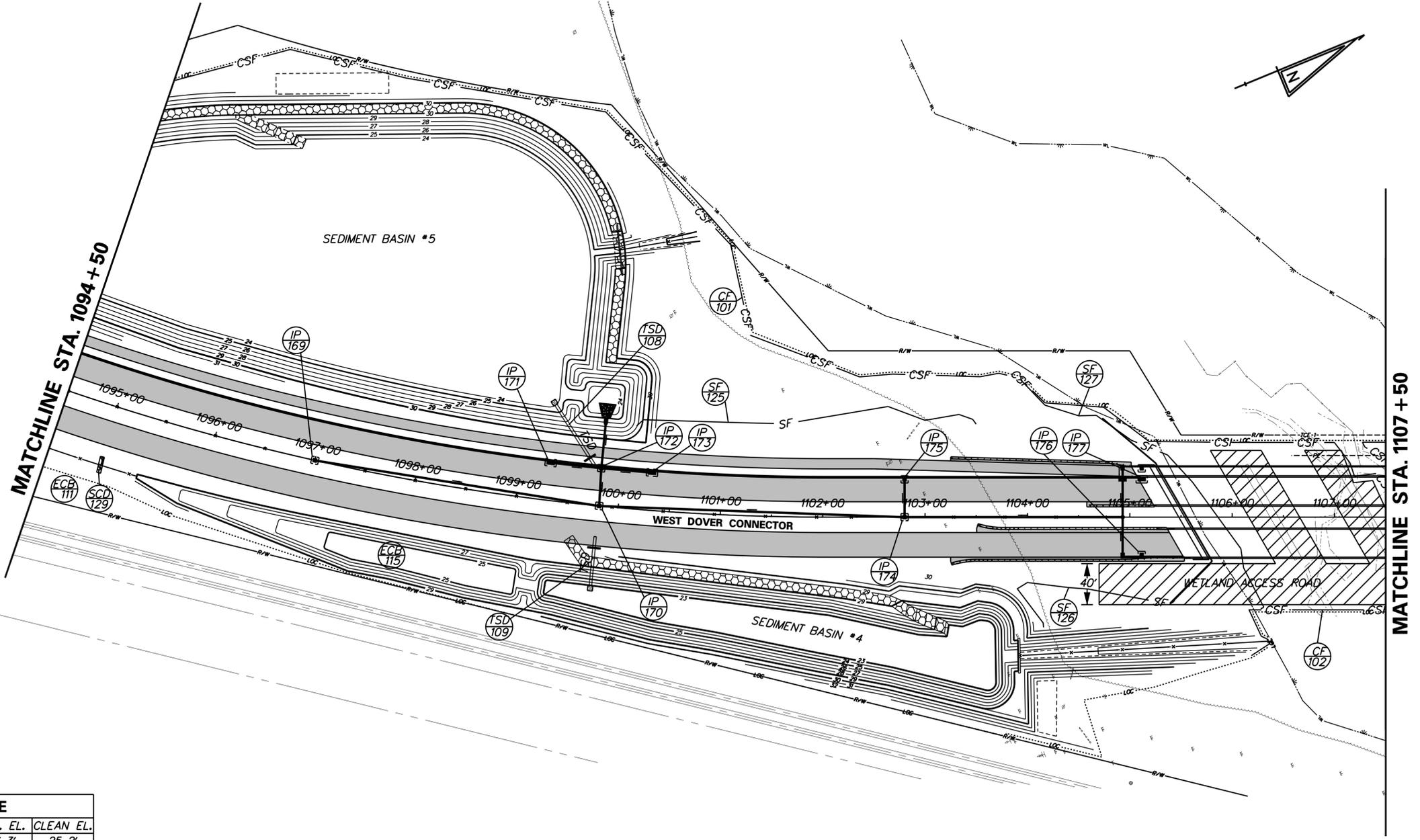
CONTRACT T200411701	BRIDGE NO.
COUNTY KENT	DESIGNED BY: KM/JP
	CHECKED BY: JS/SS

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

SHEET NO. 220
TOTAL SHTS. 320

**SUPPLEMENTAL SEQUENCING (PUNCHEON RUN)**

- ① INSTALL CONSTRUCTION FENCE AS SHOWN ON THE PLANS.
- ② REFER TO ENVIRONMENTAL COMPLIANCE SHEETS FOR GUIDANCE AND RESTRICTIONS ON WETLAND ACCESS ROAD.
- ③ CLEAR AREA FOR ACCESS ROAD AND PIER CONSTRUCTION LIMITS. CUT TREES FLUSH WITH GROUND FOR ACCESS ROAD AND CUT TREES TO 2' ABOVE GROUND UNDER FUTURE BRIDGE. CLEAR AND GRUB THE AREA WITHIN THE PIER CONSTRUCTION LIMITS.
- ④ CONSTRUCT WETLAND ACCESS ROAD FROM STATION 1104+50 TO STATION 1109+50 AND FROM STATION 1110+00 TO STATION 1114+20, INCLUDING THE TEMPORARY STREAM CROSSING.
- ⑤ IN ORDER TO MINIMIZE THE AMOUNT OF DISTURBANCE, THE CONTRACTOR SHALL STAY WITHIN THE LIMITS OF THE WETLAND ACCESS ROAD AND THE PIER CONSTRUCTION ACCESS.
- ⑥ CONSTRUCT THE PROPOSED PIERS USING ACCESS POINTS SHOWN ON PLANS IN ORDER TO LIMIT THE DISTURBANCE OF THE EXISTING WETLANDS.
- ⑦ UPON COMPLETION OF THE BRIDGE AND STABILIZATION OF THE DISTURBED AREAS, REMOVE THE WETLAND ACCESS ROAD AND STABILIZE THE DISTURBED AREA. INSTALL SILT FENCE AS SHOWN FOR BRIDGE ABUTMENT AND ROADWAY CONSTRUCTION.



EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
111	502	1094+50	1100+00	5
115	3295	1094+50	1104+69	5

SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
125	1100+11	1103+50	342 LF
126	1104+16	1105+44	205 LF
127	1103+91	1106+28	350 LF

CONSTRUCTION FENCE			
NO.	STATION FROM	STATION TO	LENGTH
101	1094+48	1107+50	1381 LF
102	1106+19	1107+50	194 LF

SEDIMENT BASIN SCHEDULE						
NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. EL.	CLEAN EL.
4	13.71	800	125	5.0	26.3'	25.2'

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ADDENDUMS / REVISIONS

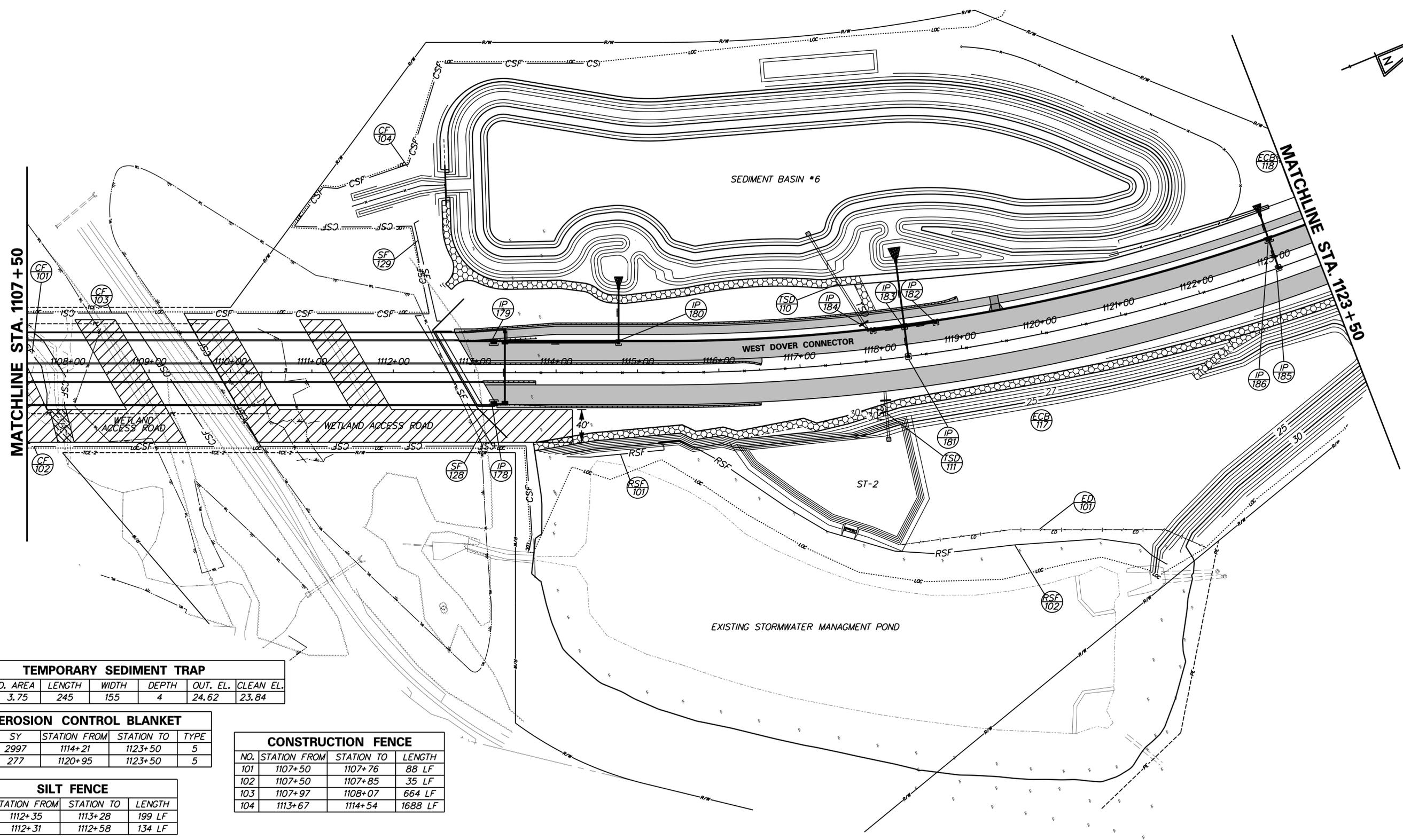


**WEST DOVER CONNECTOR**

CONTRACT	BRIDGE NO.
T200411701	
COUNTY	DESIGNED BY: KM/JP
KENT	CHECKED BY: JS/SS

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

SHEET NO.
221
TOTAL SHTS.
320



TEMPORARY SEDIMENT TRAP						
NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. EL.	CLEAN EL.
ST-2	3.75	245	155	4	24.62	23.84

EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
117	2997	1114+21	1123+50	5
118	277	1120+95	1123+50	5

SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
128	1112+35	1113+28	199 LF
129	1112+31	1112+58	134 LF

REINFORCED SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
101	1114+13	1115+32	127 LF
102	1115+26	1120+82	671 LF

CONSTRUCTION FENCE			
NO.	STATION FROM	STATION TO	LENGTH
101	1107+50	1107+76	88 LF
102	1107+50	1107+85	35 LF
103	1107+97	1108+07	664 LF
104	1113+67	1114+54	1688 LF

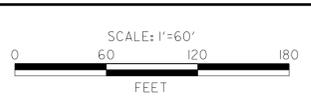
EARTH DIKE SCHEDULE				
NO.	BEGIN STA.	END STA.	TYPE	LENGTH
101	1117+31, RT	1121+31, RT	B-1	382

SEDIMENT BASIN SCHEDULE						
NO.	D. AREA	LENGTH	WIDTH	DEPTH	OUT. EL.	CLEAN EL.
6	41.38	817	132	7	26.08'	23.94'

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ADDENDUMS / REVISIONS	

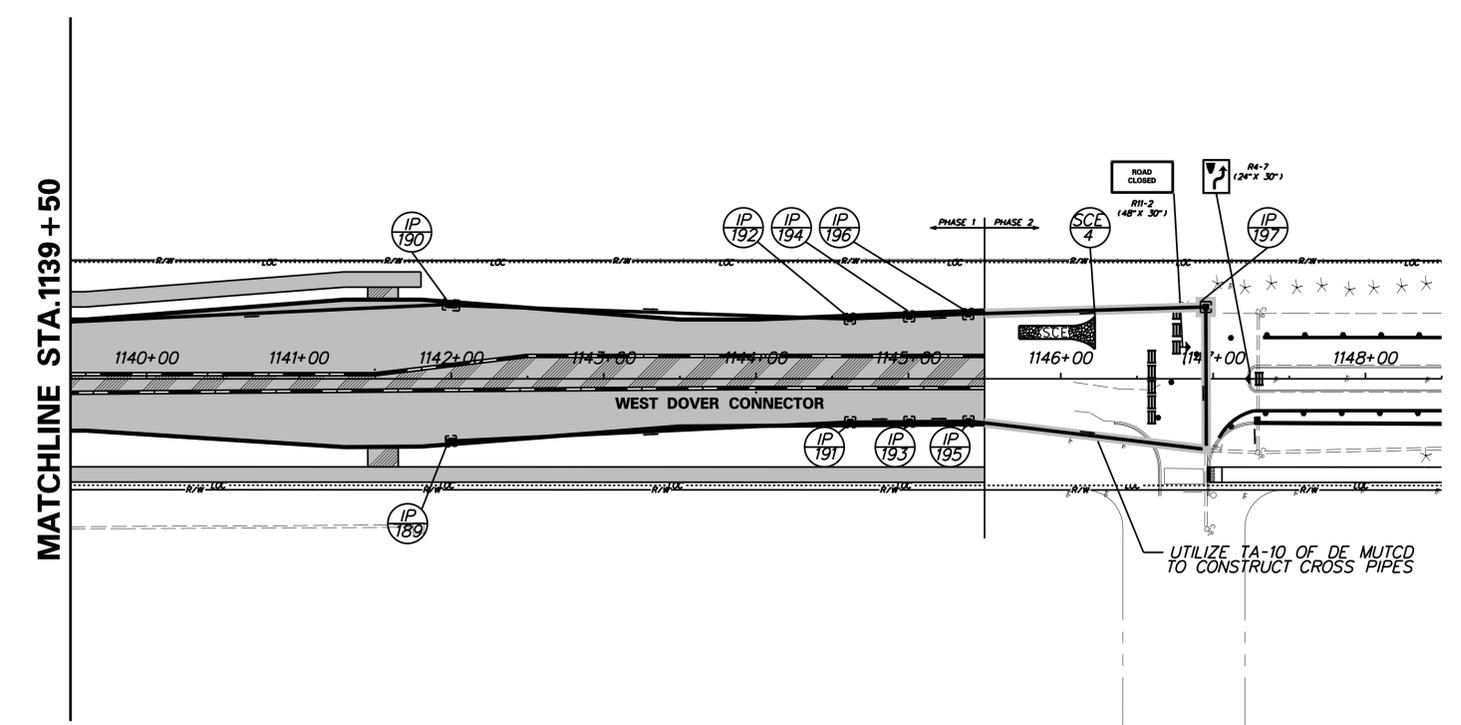
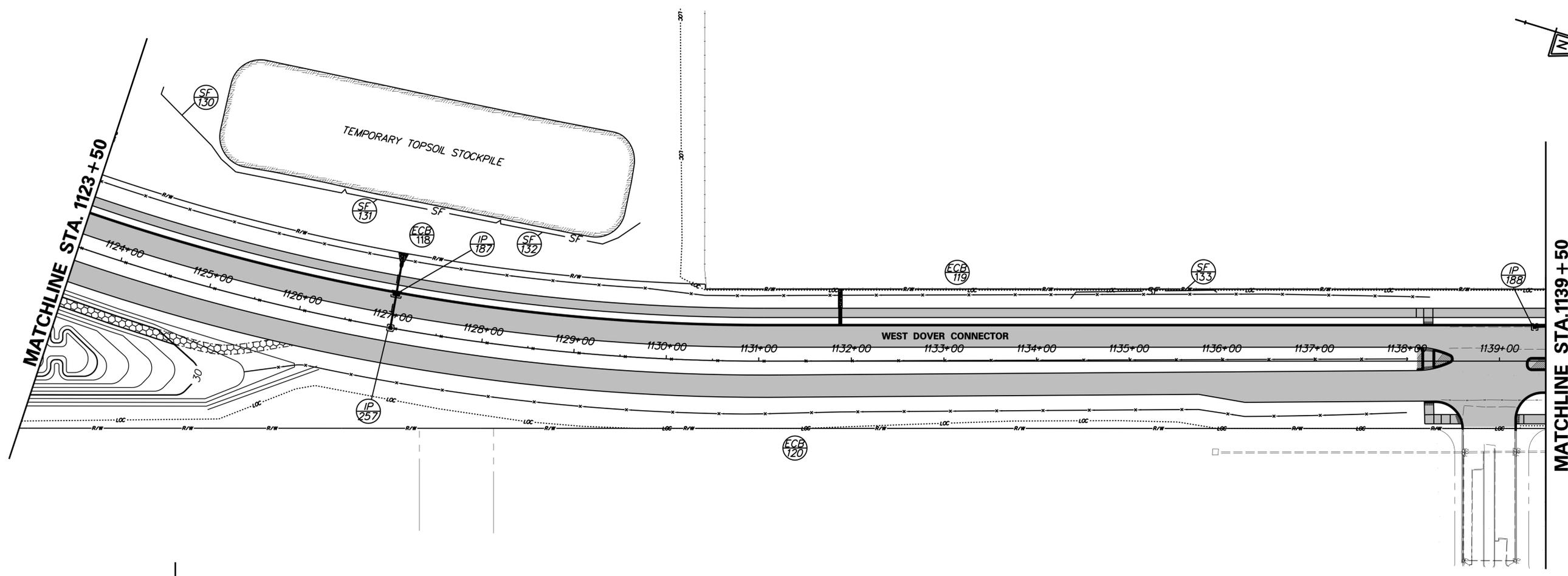


**WEST DOVER CONNECTOR**

CONTRACT T200411701	BRIDGE NO.
COUNTY KENT	DESIGNED BY: KM/JP
	CHECKED BY: JS/SS

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

SHEET NO. 222
TOTAL SHTS. 320



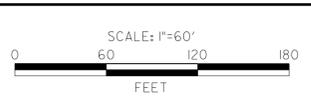
EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
117	4361	1123+50	1137+00	5
118	696	1123+50	1129+98	5
119	439	1129+98	1137+02	5
120	1246	1125+91	1137+00	5

SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
130	1123+86	1126+21	248 LF
131	1126+21	1128+03	175 LF
132	1128+03	1129+63	162 LF
133	1134+37	1135+95	162 LF

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ADDENDUMS / REVISIONS	

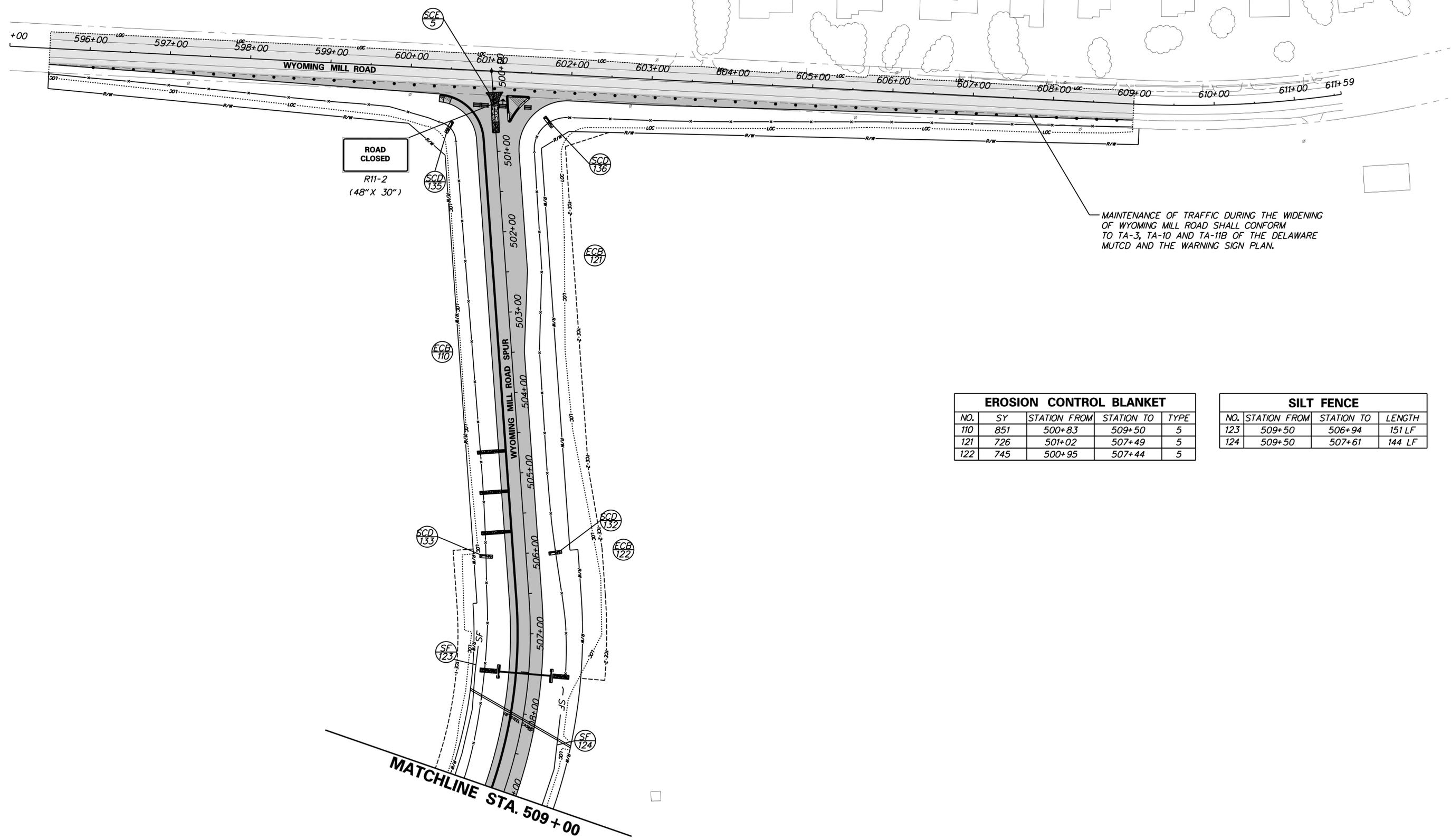


## WEST DOVER CONNECTOR

CONTRACT	BRIDGE NO.
T200411701	
COUNTY	DESIGNED BY: KM/JP
KENT	CHECKED BY: JS/SS

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

SHEET NO.
223
TOTAL SHTS.
320

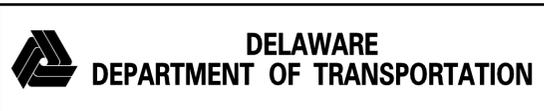


MAINTENANCE OF TRAFFIC DURING THE WIDENING OF WYOMING MILL ROAD SHALL CONFORM TO TA-3, TA-10 AND TA-11B OF THE DELAWARE MUTCD AND THE WARNING SIGN PLAN.

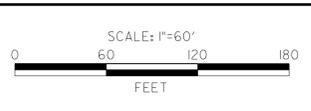
EROSION CONTROL BLANKET				
NO.	SY	STATION FROM	STATION TO	TYPE
110	851	500+83	509+50	5
121	726	501+02	507+49	5
122	745	500+95	507+44	5

SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
123	509+50	506+94	151 LF
124	509+50	507+61	144 LF

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ADDENDUMS / REVISIONS	

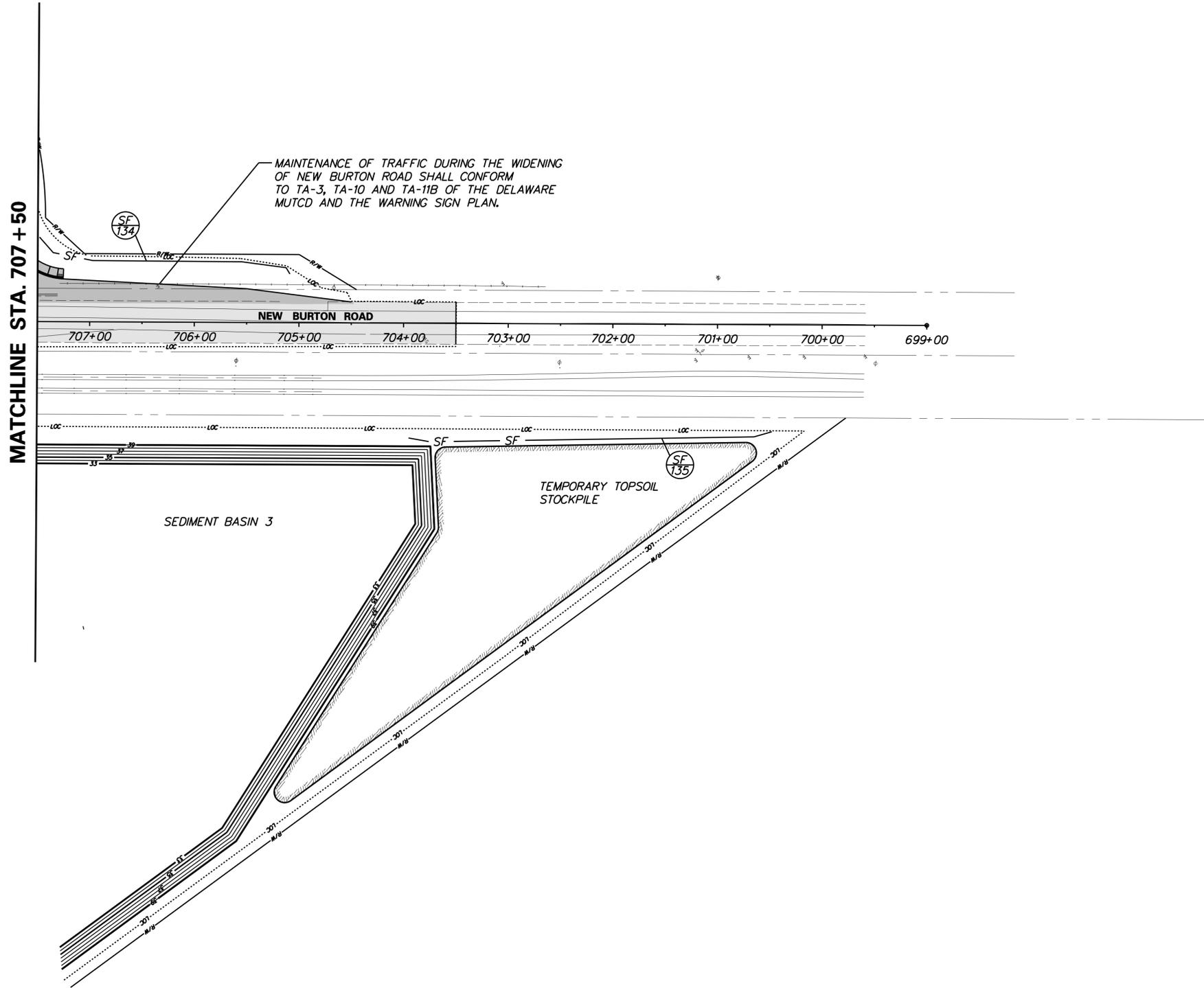
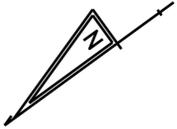


**WEST DOVER CONNECTOR**

CONTRACT T200411701	BRIDGE NO.
COUNTY KENT	DESIGNED BY: KM/JP
	CHECKED BY: JS/SS

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

SHEET NO. 224
TOTAL SHTS. 320



SILT FENCE			
NO.	STATION FROM	STATION TO	LENGTH
134	707+48	705+09	250 LF
135	703+95	700+48	348 LF

ADDENDUMS / REVISIONS



WEST DOVER CONNECTOR

CONTRACT	BRIDGE NO.
T200411701	
COUNTY	DESIGNED BY: KM/JP
KENT	CHECKED BY: JS/SS

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

SHEET NO.
225
TOTAL SHTS.
320

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