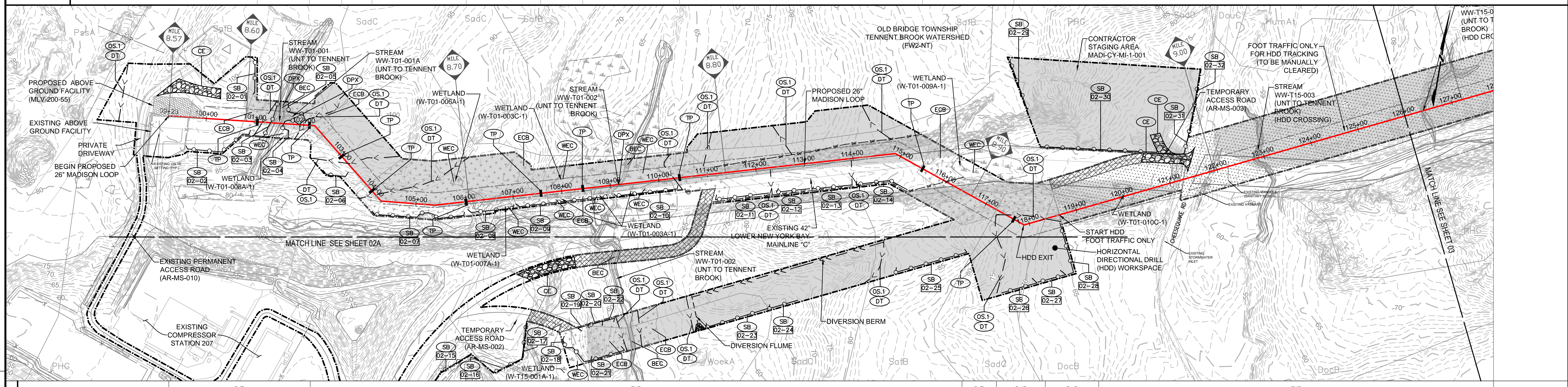
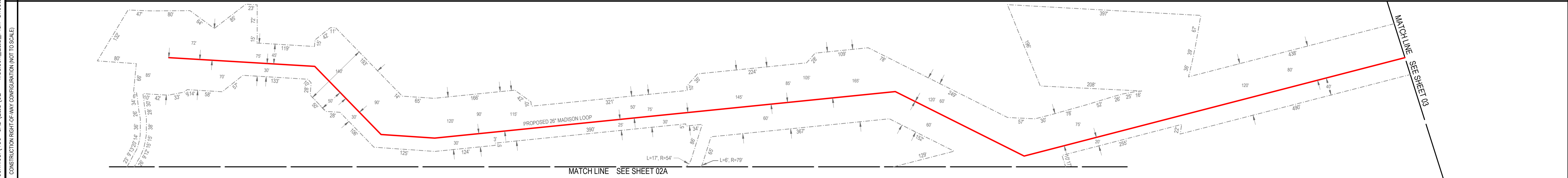




OWNERSHIP	99+23	101+16	102+00	103+25	104+11	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00	114+00	115+00	116+00	117+00	118+00	119+00	120+00	121+00	122+00	123+00	124+00	125+00	126+00	127+00	128+00	
CONSTRUCTION WINDOW OR RESTRICTION																														
CONSTRUCTION METHOD	99+23	101+16	102+00	103+25	104+11	105+00	106+00	107+00	108+00	109+00	110+00	111+00	112+00	113+00	114+00	115+00	116+00	117+00	118+00	119+00	120+00	121+00	122+00	123+00	124+00	125+00	126+00	127+00	128+00	
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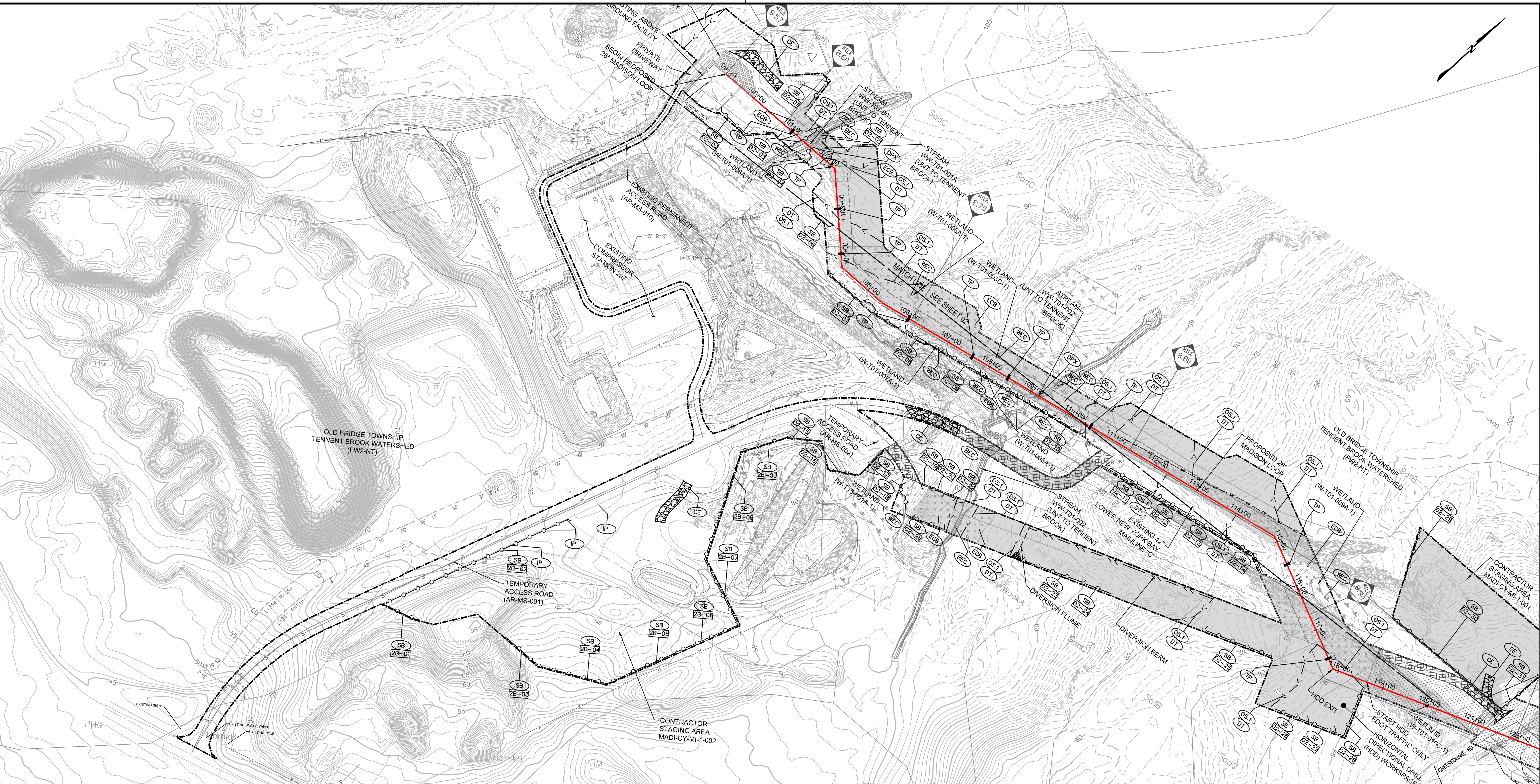
STATIONS	99+23 BEGIN STA. PROPOSED 26th MADISON LOOP 99+65 EXISTING FENCE 101+34 TOP OF BANK 101+48 & 101+57 STREAM (WW-T01-001) 101+57 TOP OF BANK 102+22 P.I. x 441' 23.07' RT. 104+28 P.I. x 104' 13.37' LT. 105+38 P.I. x 104' 13.37' LT. 106+17 TOP OF BANK 106+41 TOP OF BANK 106+66 TOP OF BANK 106+97 TOP OF BANK 107+70 ENTER WETLAND (W-T01-003C-1) 108+8 EXIT WETLAND (W-T01-003C-1) 108+72 ENTER WETLAND (W-T01-003C-1) 109+0 EXIT WETLAND (W-T01-003C-1) 109+03 EXIT WETLAND (W-T01-003C-1) 109+19 ISL STREAM (WW-T01-002) 109+21 TOP OF BANK 109+21 ENTER WETLAND (W-T01-003A-1) 110+21 EXIT WETLAND (W-T01-003A-1) 110+21 WETLAND (W-T01-003A-1) 114+87 P.I. x 352' 23.32' RT. 115+39 EXISTING 42' LOWER BAY LOOP 'C' 117+65 P.I. x 441' 59.07' LT. 119+91 ENTER WETLAND (W-T01-010C-1) 120+24 EXIT WETLAND (W-T01-010C-1) 121+49 TOP OF BANK 121+49 ROAD DEFOODING ROAD 121+49 & 121+50 CHEESEQUAKE ROAD 121+49 EDGE OF ROAD 121+49 RIGHT-OF-WAY 121+49 FENCE 122+11 EXISTING 42' LOWER BAY LOOP 'C' 122+24 SANITARY LINE 122+77 TOP OF BANK 122+85 & 122+86 STREAM (WW-T15-003) 122+85 TOP OF BANK
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GENERAL NOTES	CONSTRUCTION LEGEND	EROSION CONTROL LEGEND	PROJECT SPECIFIC NOTES	SOIL LEGEND	EROSION CONTROL TYPICAL LAYOUT																												
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THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.</li> <li>TOTAL DISTURBED AREA THIS SHEET IS 9.18 AC/ 399811.77 S.F.</li> <li>TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS 975.21 L.F.</li> <li>TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS 3306.93 L.F.</li> <li>TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS N/A L.F.</li> <li>TOTAL LENGTH OF FILTER SOCK THIS SHEET IS N/A L.F.</li> </ol>	<p>STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.</p> <p>DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.</p> <p>WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. 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CLOSE PITS, PLACE TOPSOIL, AND RE-VEGETATE.</p>	<p>150 - EXISTING MAJOR CONTOUR</p> <p>--- - EXISTING MINOR CONTOUR</p> <p>--- - STREAM CENTERLINE</p> <p>--- - WETLAND</p> <p>--- - TREE LINE</p> <p>--- - WATER WELL</p> <p>--- - PARCEL LINE</p> <p>--- - EXISTING ACCESS ROADS</p> <p>X - FENCE LINE</p> <p>P - EXISTING OVERHEAD POWER LINE</p> <p>--- - EXISTING PIPELINE</p> <p>--- - PROPOSED PIPELINE</p> <p>--- - EXISTING RIGHT OF WAY</p> <p>--- - NEW RIGHT OF WAY</p> <p>--- - ACIDIC SOIL TYPE BOUNDARY</p> <p>--- - FEMA FLOOD HAZARD ZONES</p> <p>--- - SOIL TYPE BOUNDARY</p> <p>PHG - SOIL TYPE</p> <p>--- - LIMIT OF DISTURBANCE</p> <p>--- - SAFETY FENCE</p> <p>--- - SEDIMENT BARRIER (SILT FENCE)</p> <p>--- - COMPOST FILTER SOCK SEDIMENT TRAP</p> <p>--- - DIVERSION TERRACE</p> <p>--- - TRENCH PLUG</p> <p>--- - DIVERSION BERM</p> <p>--- - FLUME PIPE AND RIPRAP APRON</p> <p>--- - CONSTRUCTION ENTRANCE</p> <p>--- - EROSION CONTROL BLANKET</p> <p>--- - TIMBER MATTING</p> <p>--- - TREE CLEARING AREA</p> <p>--- - WATERSHED DIVIDE BOUNDARY</p> <p>XX - EROSION CONTROL MEASURE</p> <p>02-01 - EROSION CONTROL MEASURE NUMBER</p> <p>TSS - TOP SOIL SEGREGATION</p> <p>--- - PROPOSED STONE</p> <p>--- - HDD FOOT TRAFFIC ONLY AREA</p>	<ol style="list-style-type: none"> <li>EROSION CONTROL MEASURE AS DEPICTED IN THESE PLANS ARE INTENDED AS GUIDELINES AND MAY BE ADJUSTED BY WILLIAMS ENVIRONMENTAL INSPECTORS TO MEET ACTUAL FIELD CONDITIONS.</li> <li>COMPANY ENVIRONMENTAL INSPECTOR SHALL DETERMINE LOCATION WHERE HYDROSTATIC DEWATERING STRUCTURE (DS.2) IS TO BE LOCATED.</li> <li>CONTRACTOR SHALL BE REQUIRED TO KEEP ROADS WHERE CONSTRUCTION SPREAD WILL ENTER AND EXIT PROJECT CORRIDOR OR CLEAN OF CONSTRUCTION RELATED DEBRIS AT ALL TIMES.</li> <li>ALL WATERBODY CROSSINGS TO BE INSTALLED USING THE FOLLOWING METHODS: DRY OPEN CUT METHOD (DAM &amp; PUMP OR FLUME) OR HORIZONTAL DIRECTIONAL DRILLING (HDD).</li> <li>TREE LINE DATA IS SUBJECT TO CHANGE BASED ON POTENTIAL PRE-CONSTRUCTION SURVEYS.</li> </ol>	<p>DwB - DOWNER LOAMY SAND, 0 TO 5 PERCENT SLOPES, NORTHERN COASTAL PLAIN</p> <p>DwC - DOWNER URBANLAND COMPLEX, 5 TO 10 PERCENT SLOPES</p> <p>EvsD - EVERSORE SAND, 10 TO 15 PERCENT SLOPES</p> <p>PdAv - PAWCATUCK TRANSQUAKING COMPLEX, 0 TO 2 PERCENT SLOPES, VERY FREQUENTLY FLOODED</p> <p>PssA - PITS, SAND AND GRAVEL</p> <p>PssB - PSAMMENTS, 0 TO 3 PERCENT SLOPES</p> <p>PssC - PSAMMENTS, WASTE SUBSTRATUM, 0 TO 8 PERCENT SLOPES</p> <p>SsAc - SASSAFRAS SANDY LOAM, 5 TO 10 PERCENT SLOPES, NORTHERN COASTAL PLAIN</p> <p>SsBc - SASSAFRAS GRAVELY SANDY LOAM, 5 TO 10 PERCENT SLOPES</p> <p>SsBf - SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPES</p> <p>Ur - URBANLAND</p>	<p>LIMITS OF DISTURBANCE</p> <p>1. 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<p><b>REVISIONS</b></p> <table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>W.O. NO.</th> <th>CHK</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>08/15/17</td> <td>ERL</td> <td>SUBMITTED TO FRESHFIELD SOIL CONSERVATION DISTRICT</td> <td>60515775</td> <td>PPH</td> <td>KDM</td> </tr> <tr> <td>1</td> <td>05/07/18</td> <td>SMR</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> <tr> <td>2</td> <td>06/05/18</td> <td>PPH</td> <td>SUBMITTED TO NJDEP</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> </tbody> </table>			NO	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.	0	08/15/17	ERL	SUBMITTED TO FRESHFIELD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM	1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH	2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH	<p>TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION &amp; SEDIMENT CONTROL PLAN NORTHEAST SUPPLY ENHANCEMENT PROJECT PROPOSED 26th MADISON LOOP 3.43 MI. - M.P. 8.57 TO M.P. 12.00 MIDDLESEX COUNTY, NEW JERSEY</p> <p>Drawn By: ERL DATE: 06/15/17 ISSUED FOR BID: TBD SCALE: 1" = 100' Checked By: PPH DATE: 06/15/17 ISSUED FOR CONSTRUCTION: TBD REVISION: 2 Approved By: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-2-D SHEET 02 OF 21 W.O. 60515775</p>		
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Drawn By: Date/Time: hasep May 30, 2018 11:55am  
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 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)

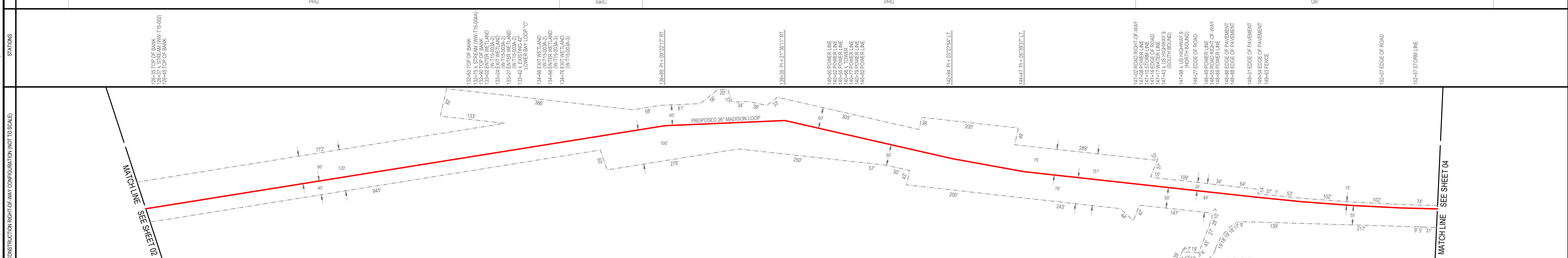
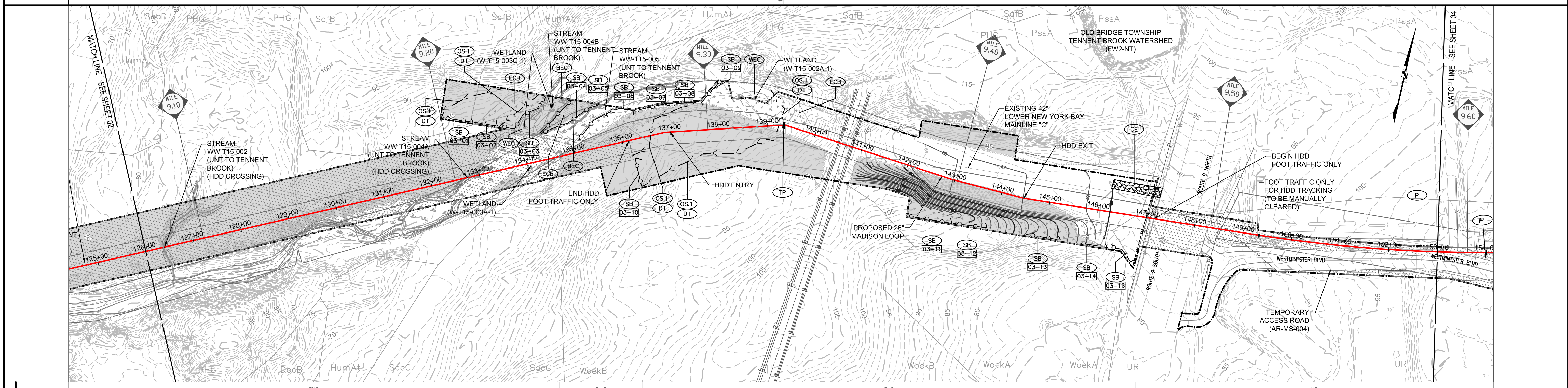
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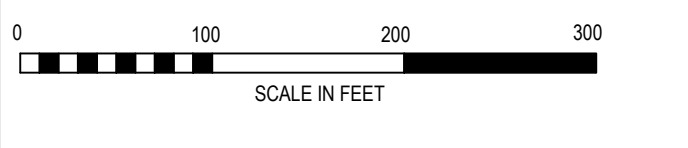


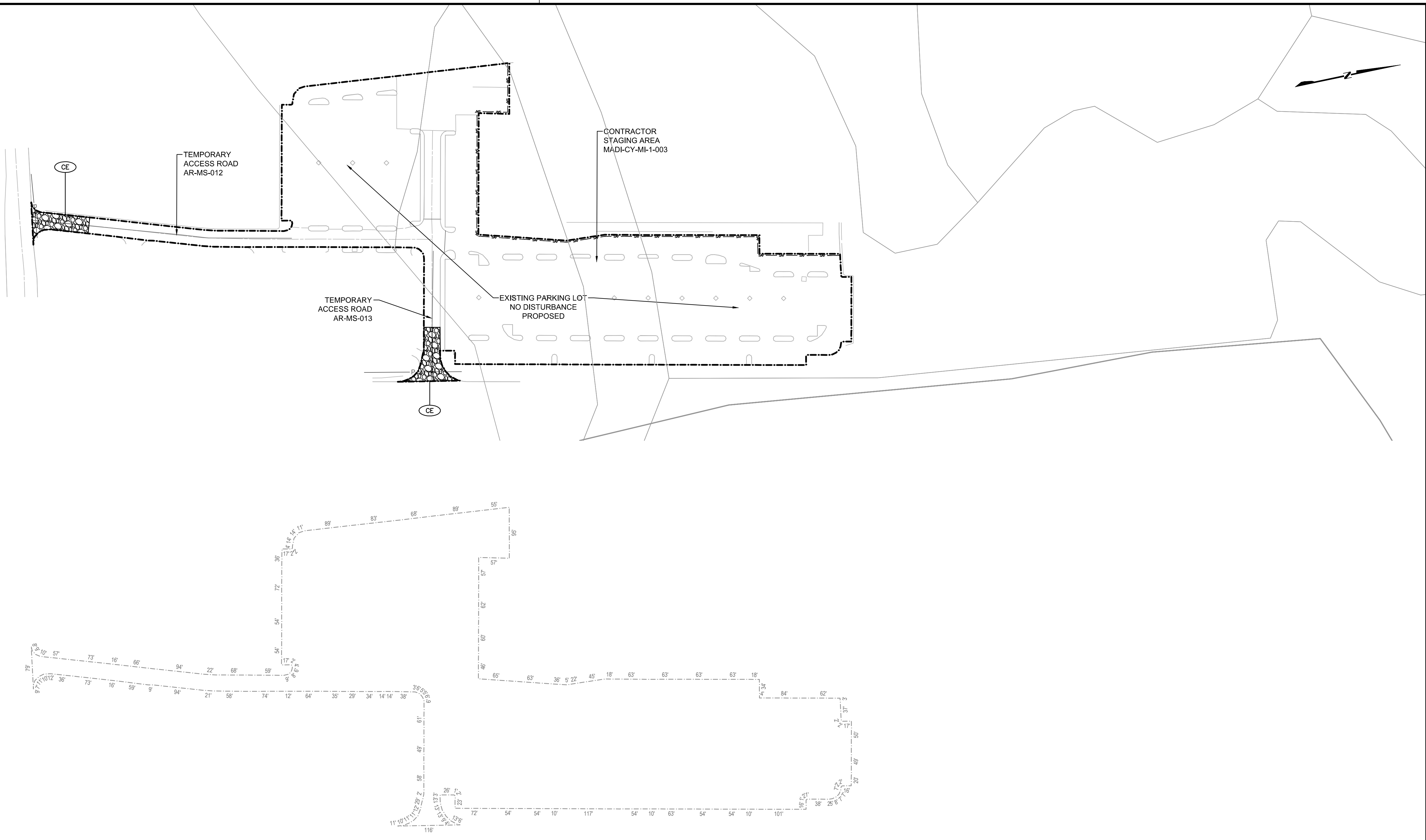
OWNERSHIP	126+00	JOHN BRUNETTI NJ-MI-5	140+17	JOHN BRUNETTI NJ-MI-8	141+17	JOHN BRUNETTI NJ-MI-9	147+02	US HIGHWAY 9 NJ-MI-002.000 RD	148+55	HARRY WILF, ET AL NJ-MI-10	153+00
CONSTRUCTION WINDOW OR RESTRICTION											
CONSTRUCTION METHOD	126+00	HDD	136+89	STANDARD	144+47				HDD	153+00	
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TRENCH BREAKERS											



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THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.</li> <li>TOTAL DISTURBED AREA THIS SHEET IS 8.47 AC / 368895.93 S.F.</li> <li>TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS 160.87 L.F.</li> <li>TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS 1327.31 L.F.</li> <li>TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS N/A L.F.</li> <li>TOTAL LENGTH OF FILTER SOCK THIS SHEET IS N/A L.F.</li> </ol>	<p><b>CONSTRUCTION LEGEND</b></p> <ul style="list-style-type: none"> <li>STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.</li> <li>DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.</li> <li>WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. 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UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE</p>																												
<p><b>REVISIONS</b></p> <table border="1"> <thead> <tr> <th>NO</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>W.O. NO.</th> <th>CHK</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>08/15/17</td> <td>ERL</td> <td>SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT</td> <td>60515775</td> <td>PPH</td> <td>KDM</td> </tr> <tr> <td>1</td> <td>05/07/18</td> <td>SMR</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> <tr> <td>2</td> <td>06/05/18</td> <td>PPH</td> <td>SUBMITTED TO NJDEP</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> </tbody> </table>		NO	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.	0	08/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM	1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH	2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH	<p><b>TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.</b>  <b>SOIL EROSION &amp; SEDIMENT CONTROL PLAN</b>  <b>NORTHEAST SUPPLY ENHANCEMENT PROJECT</b>  <b>PROPOSED 26" MADISON LOOP</b>  <b>3.43 MI. - M.P. 8.57 TO M.P. 12.00</b>  <b>MIDDLESEX COUNTY, NEW JERSEY</b></p>		<p><b>Williams</b> GAS PIPELINE</p>	
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<p>KEVIN MCKEON, P.E. NEW JERSEY PROFESSIONAL ENGINEER NO. G52586</p>		<p>AECOM 625 WEST RIDGE PKWE, SUITE E-100 CONSHOHOCKEN, PA 19029 (610) 832-3500</p>		<p>DRAWN BY: ERL DATE: 06/15/17 ISSUED FOR BID: TBD SCALE: 1" = 100'</p> <p>CHECKED BY: PPH DATE: 06/15/17 ISSUED FOR CONSTRUCTION: TBD REVISION: 2</p> <p>APPROVED BY: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-28-D SHEET 03</p> <p>NO. 60515775</p>																													

Drawn By: Date/Time: harsp May 30, 2018 11:56am  
 Drawing Location & Name: S:\Projects\ENV\60515775\_NESC\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg  
 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)





Drawn By: hasep, May 30, 2018 11:56am  
 Drawing Location: S:\Projects\ENV\60515775\_NESE\_ML\_CS\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg

GENERAL NOTES	
1. THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1985.	
2. BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83.	
3. ANY DISTURBANCE IN A WATERBODY OR WETLANDS SHALL CONFORM WITH THE WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES.	
4. CONSTRUCTION AND RESTORATION SHALL CONFORM TO THE UPLAND EROSION CONTROL, REVEGETATION AND MITIGATION PLAN.	
5. CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.	
6. WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.	
7. TOTAL DISTURBED AREA THIS SHEET IS _____	7.22 AC/ 314422.87 S.F.
8. TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS _____	0.00 L.F.
9. TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS _____	0.00 L.F.
10. TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS _____	N/A L.F.
11. TOTAL LENGTH OF FILTER SOCK THIS SHEET IS _____	N/A L.F.

CONSTRUCTION LEGEND	
STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.	
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EROSION CONTROL LEGEND	
150 - EXISTING MAJOR CONTOUR	
- - - - - EXISTING MINOR CONTOUR	
— — — — — STREAM CENTERLINE	
WETLAND	
TREE LINE	
TREE	
WATER WELL	
PARCEL LINE	
EXISTING ACCESS ROADS	
FENCE LINE	
EXISTING OVERHEAD POWER LINE	
EXISTING PIPELINE	
PROPOSED PIPELINE	
EXISTING RIGHT OF WAY	
NEW RIGHT OF WAY	
ACIDIC SOIL TYPE BOUNDARY	
FEMA FLOOD HAZARD ZONES	
SOIL TYPE BOUNDARY	
SOIL TYPE	
PHG	
LIMIT OF DISTURBANCE	
SAFETY FENCE	
SEDIMENT BARRIER (SILT FENCE)	
COMPOST FILTER SOCK SEDIMENT TRAP	
DIVERSION TERRACE	
TRENCH PLUG	
DIVERSION BERM	
FLUME PIPE AND RIPRAP APRON	
CONSTRUCTION ENTRANCE	
EROSION CONTROL BLANKET	
TIMBER MATTING	
TREE CLEARING AREA	
WATERSHED DIVIDE BOUNDARY	
EROSION CONTROL MEASURE	
EROSION CONTROL MEASURE NUMBER	
TOP SOIL SEGREGATION	
PROPOSED STONE	
HDD FOOT TRAFFIC ONLY AREA	

PROJECT SPECIFIC NOTES			
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2. COMPANY ENVIRONMENTAL INSPECTOR SHALL DETERMINE LOCATION WHERE HYDROSTATIC DEWATERING STRUCTURE (DS.2) IS TO BE LOCATED.			
3. CONTRACTOR SHALL BE REQUIRED TO KEEP ROADS WHERE CONSTRUCTION SPREAD WILL ENTER AND EXIT PROJECT CORRIDOR CLEAN OF CONSTRUCTION RELATED DEBRIS AT ALL TIMES.			
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5. TREE LINE DATA IS SUBJECT TO CHANGE BASED ON POTENTIAL PRE-CONSTRUCTION SURVEYS.			

SOIL LEGEND	
DooB	DOWNER LOAMY SAND, 0 TO 5 PERCENT SLOPES, NORTHERN COASTAL PLAIN
DooC	DOWNER URBAN LAND COMPLEX, 5 TO 10 PERCENT SLOPES
EveD	EVESBORO SAND, 10 TO 15 PERCENT SLOPES
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LIMITS OF DISTURBANCE	
1. UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE	

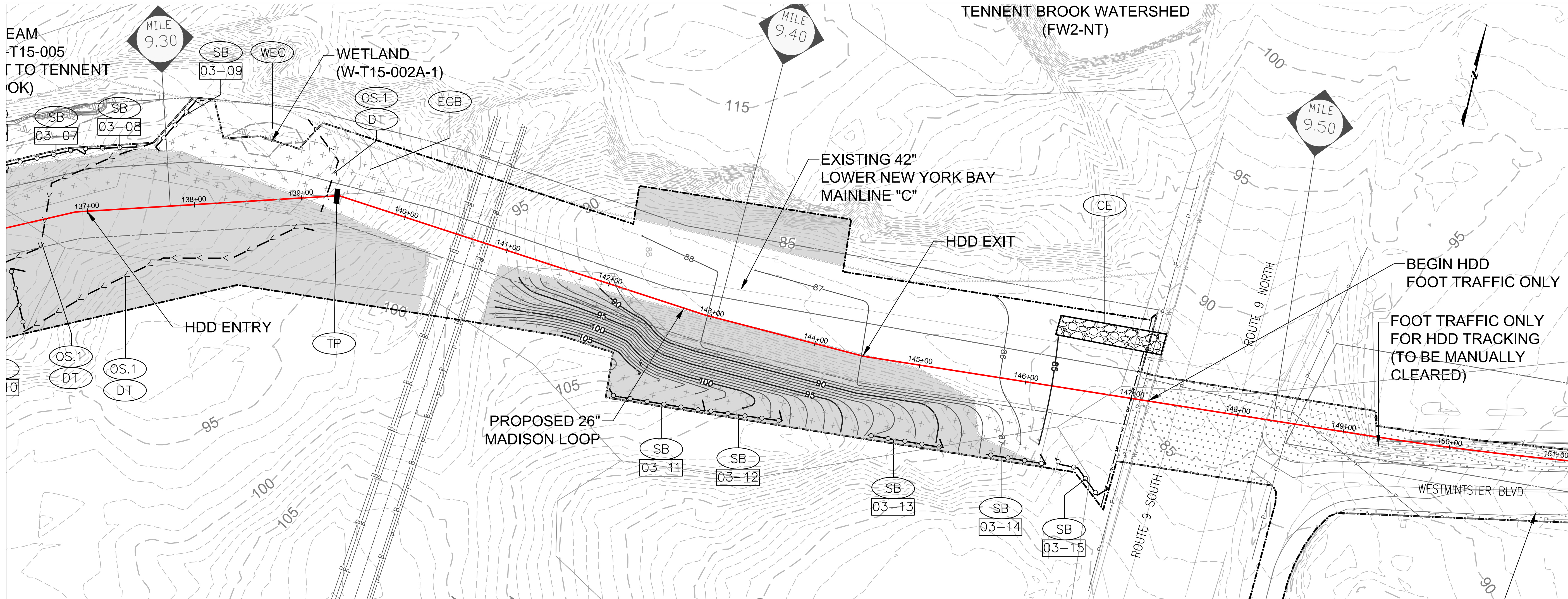
KEVIN MCKEON, P.E.  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO GE32586

REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.
0	08/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION & SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 PROPOSED 26" MADISON LOOP  
 3.43 MI. - M.P. 8.57 TO M.P. 12.00  
 MIDDLESEX COUNTY, NEW JERSEY

DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR BID: TBD	SCALE:
CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 03A
NO: 60515775			OF 21





Drawn By: Date: Time: hasep May 30, 2018 11:56am  
 Drawing Location & Name: S:\Projects\ENV\6051575\_NESP\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg

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EROSION CONTROL LEGEND	
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---	EXISTING MINOR CONTOUR
---	STREAM CENTERLINE
---	WETLAND
---	TREE LINE
---	TREE
---	WATER WELL
---	PARCEL LINE
---	EXISTING ACCESS ROADS
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---	TIMBER MATTING
---	TREE CLEARING AREA
---	WATERSHED DIVIDE BOUNDARY
XX	EROSION CONTROL MEASURE
02-01	EROSION CONTROL MEASURE NUMBER
TSS	TOP SOIL SEGREGATION
---	PROPOSED STONE
---	HDD FOOT TRAFFIC ONLY AREA

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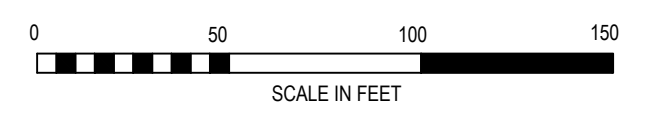
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KEVIN MCKEON, P.E.		REVISIONS				
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0	08/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
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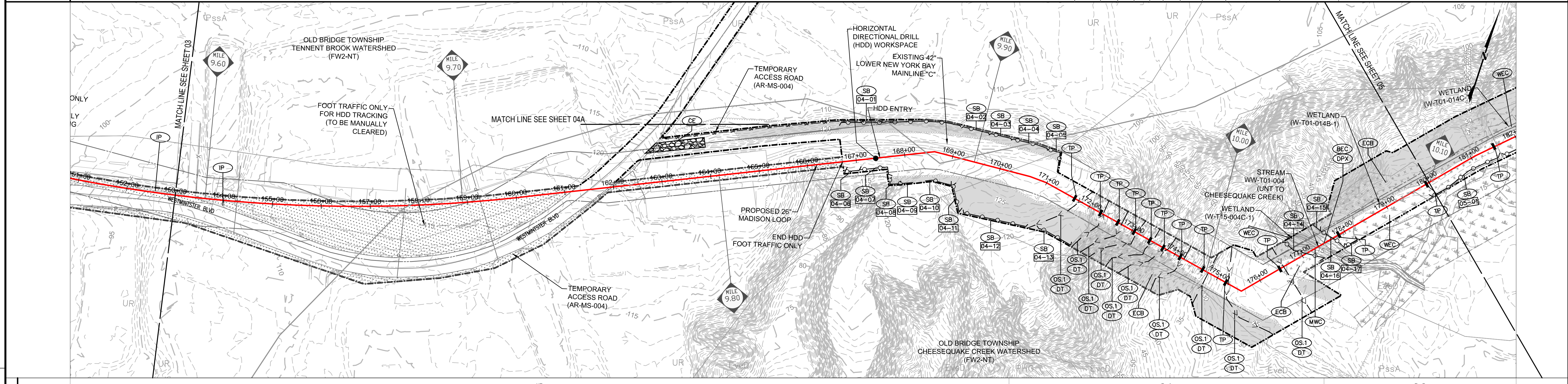
**TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.**  
**SOIL EROSION & SEDIMENT CONTROL PLAN**  
**NORTHEAST SUPPLY ENHANCEMENT PROJECT**  
**PROPOSED 26" MADISON LOOP**  
**3.43 MI. - M.P. 8.57 TO M.P. 12.00**  
**MIDDLESEX COUNTY, NEW JERSEY**

DRAWN BY: ERL DATE: 06/15/17 ISSUED FOR BD: TBD SCALE: 1" = 50'  
 CHECKED BY: PPH DATE: 06/15/17 ISSUED FOR CONSTRUCTION: TBD REVISION: 2  
 APPROVED BY: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-28-D SHEET 038  
 W.O. 60515775

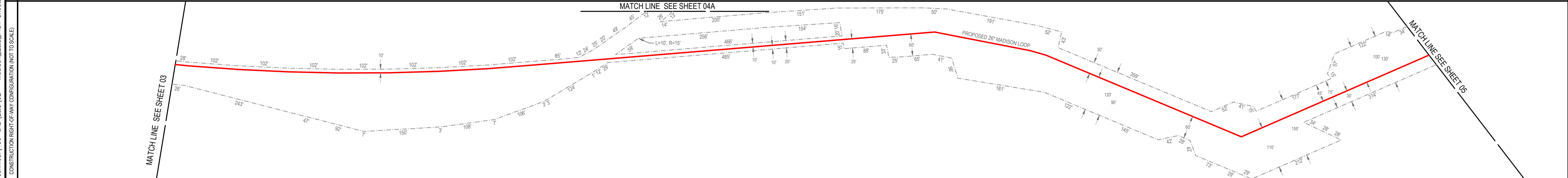
**AECOM**  
 625 WEST RIDGE PIKE, SUITE E-100  
 CONSHOHOCKEN, PA 19029  
 (610) 832-3500



OWNERSHIP	183+00 HARRY WILF, ET AL NJ-MI-10 183+25	PARKWOOD GARDENS ASSOCIATES/MADISON NJ-MI-12	185+13 WESTMINSTER BLVD NJ-MI-02 005 RD 185+92	PARKWOOD GARDENS ASSOCIATES/MADISON NJ-MI-12	185+06 BASIN REALTY (HEDY S. BUSH) NJ-MI-13 186+09	BASIN REALTY (HEDY S. BUSH) NJ-MI-15 187+08	PARKWOOD GARDENS ASSOCIATES/MADISON NJ-MI-12	189+00
CONSTRUCTION WINDOW OR RESTRICTION								
CONSTRUCTION METHOD	183+00		HDD		187+47		STANDARD	189+00
TOPSOIL SALVAGE								179+21 TSW 179+64
DIVERSION TERRACES								
TRENCH BREAKERS					171+66	172+26	172+75	173+12



STATIONS	153+45 STONE LINE 153+44 EDGE OF PAVEMENT 153+43 EDGE OF PAVEMENT 154+00 EXISTING 42" LOWER BAY LOOP "C" 154+27 POWERLINE 154+61 GASLINE	157+15 EDGE OF PAVEMENT 157+29 & SIDEWALK 157+71 POWERLINE 159+36 EDGE OF PAVEMENT 159+69 GASLINE 159+26 POWERLINE	160+8 & EXISTING 42" LOWER BAY LOOP "C" 161+08 EDGE OF PAVEMENT 161+13 EDGE OF ROAD 161+33 & WESTMINSTER BLVD 161+42 EDGE OF ROAD 161+58 POWERLINE 162+16 EDGE OF PAVEMENT 162+52 POWERLINE	165+18 EDGE OF PAVEMENT 168+61 P.L. 20' 48" 90' RT. 170+85 P.L. 08' 17" 95' LT. 170+89 P.L. 08' 12" 94' RT. 172+04 RETAINING WALL 174+76 RETAINING WALL 175+56 P.L. 48' 08" 92' LT. 176+42 LOWER BAY LOOP "C" 177+19 TOP OF BANK (W-T01-014A-1) 177+34 (W-T15-004C-1) 177+56 EXT. WETLAND (W-T15-004C-1) 177+41 & STREAM (W-T01-004) 178+21 EXT. WETLAND (W-T01-014A-1) 179+64 EXT. WETLAND (W-T01-014A-1) 179+64 EXT. WETLAND (W-T01-014A-1)
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<h3>GENERAL NOTES</h3> <ol style="list-style-type: none"> <li>THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.</li> <li>BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83.</li> <li>ANY DISTURBANCE IN A WATERBODY OR WETLANDS SHALL CONFORM WITH THE WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES.</li> <li>CONSTRUCTION AND RESTORATION SHALL CONFORM TO THE UPLAND EROSION CONTROL, REVEGETATION AND MITIGATION PLAN.</li> <li>CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.</li> <li>WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.</li> <li>TOTAL DISTURBED AREA THIS SHEET IS 7.29 AC / 317,475.94 S.F.</li> <li>TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS 484.51 L.F.</li> <li>TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS 1,318.59 L.F.</li> <li>TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS N/A L.F.</li> <li>TOTAL LENGTH OF FILTER SOCK THIS SHEET IS N/A L.F.</li> </ol>	<h3>CONSTRUCTION LEGEND</h3> <ul style="list-style-type: none"> <li>STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.</li> <li>DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.</li> <li>WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. 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UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE</p>																																						
<p>Drawn By: Date/Time: harsp, May 30, 2018 11:57am        Working Location &amp; Name: S:\Projects\ENV\60515775_NESC_M_ES_400-Technical\400-CAD\E&amp;S\02 - Madison_E&amp;S_Plan Sheets 1-8.dwg</p>		<p>KEVIN MCKEON, P.E.        NEW JERSEY PROFESSIONAL ENGINEER NO G532586</p>		<table border="1"> <thead> <tr> <th colspan="6">REVISIONS</th> </tr> <tr> <th>NO</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>W.O. NO.</th> <th>CHK</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>08/15/17</td> <td>ERL</td> <td>SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT</td> <td>60515775</td> <td>PPH</td> <td>KDM</td> </tr> <tr> <td>1</td> <td>05/07/18</td> <td>SMR</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> <tr> <td>2</td> <td>06/05/18</td> <td>PPH</td> <td>SUBMITTED TO NJDEP</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> </tbody> </table>		REVISIONS						NO	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.	0	08/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM	1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH	2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH	<p>TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.        SOIL EROSION &amp; SEDIMENT CONTROL PLAN        NORTHEAST SUPPLY ENHANCEMENT PROJECT        PROPOSED 26" MADISON LOOP        3.43 MI. - M.P. 8.57 TO M.P. 12.00        MIDDLESEX COUNTY, NEW JERSEY</p>		<p>Williams        GAS PIPELINE</p>	
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<p>SCALE IN FEET</p>		<p>CALL BEFORE YOU DIG        1-800-272-1000        IT'S THE LAW        NEW JERSEY ONE CALL Dig Safety</p>		<p>APPROVED BY: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-2-D SHEET 04 OF 21</p>		<p>SCALE: 1" = 100'        REVISION: 2</p>																																					

Drawn By: & Date: harsp May 30, 2018 11:57am  
 Drawing Location & Name: S:\Projects\ENV\60515775\_NESC\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg



GENERAL NOTES	
1. THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1989.	
2. BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83.	
3. ANY DISTURBANCE IN A WATERBODY OR WETLANDS SHALL CONFORM WITH THE WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES.	
4. CONSTRUCTION AND RESTORATION SHALL CONFORM TO THE UPLAND EROSION CONTROL, REVEGETATION AND MITIGATION PLAN.	
5. CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.	
6. WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.	
7. TOTAL DISTURBED AREA THIS SHEET IS _____	2.47 AC / 107708.38 S.F.
8. TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS _____	0.00 L.F.
9. TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS _____	0.00 L.F.
10. TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS _____	N/A L.F.
11. TOTAL LENGTH OF FILTER SOCK THIS SHEET IS _____	N/A L.F.

CONSTRUCTION LEGEND	
STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.	
DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.	
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EROSION CONTROL LEGEND	
150 - EXISTING MAJOR CONTOUR	--- LIMIT OF DISTURBANCE
--- EXISTING MINOR CONTOUR	--- SAFETY FENCE
--- STREAM CENTERLINE	--- SEDIMENT BARRIER (SILT FENCE)
[Symbol] WETLAND	--- COMPOST FILTER SOCK SEDIMENT TRAP
[Symbol] TREE LINE	--- TRENCH PLUG
[Symbol] TREE	--- DIVERSION TERRACE
[Symbol] WATER WELL	--- DIVERSION BERM
[Symbol] PARCEL LINE	--- FLUME PIPE AND RIPRAP APRON
--- EXISTING ACCESS ROADS	[Symbol] CONSTRUCTION ENTRANCE
--- FENCE LINE	[Symbol] TREE CLEARING AREA
--- EXISTING OVERHEAD POWER LINE	[Symbol] EROSION CONTROL BLANKET
--- EXISTING PIPELINE	[Symbol] TIMBER MATTING
--- PROPOSED PIPELINE	[Symbol] WATERSHED DIVIDE BOUNDARY
--- EXISTING RIGHT OF WAY	[Symbol] EROSION CONTROL MEASURE
--- NEW RIGHT OF WAY	[Symbol] EROSION CONTROL MEASURE NUMBER
--- ACIDIC SOIL TYPE BOUNDARY	[Symbol] TOP SOIL SEGREGATION
--- FEMA FLOOD HAZARD ZONES	[Symbol] PROPOSED STONE
--- SOIL TYPE BOUNDARY	[Symbol] HDD FOOT TRAFFIC ONLY AREA
PHG - SOIL TYPE	

PROJECT SPECIFIC NOTES	
1. EROSION CONTROL MEASURE AS DEPICTED IN THESE PLANS ARE INTENDED AS GUIDELINES AND MAY BE ADJUSTED BY WILLIAMS ENVIRONMENTAL INSPECTORS TO MEET ACTUAL FIELD CONDITIONS.	
2. COMPANY ENVIRONMENTAL INSPECTOR SHALL DETERMINE LOCATION WHERE HYDROSTATIC DEWATERING STRUCTURE (DS.2) IS TO BE LOCATED.	
3. CONTRACTOR SHALL BE REQUIRED TO KEEP ROADS WHERE CONSTRUCTION SPREAD WILL ENTER AND EXIT PROJECT CORRIDOR CLEAN OF CONSTRUCTION RELATED DEBRIS AT ALL TIMES.	
4. ALL WATERBODY CROSSINGS TO BE INSTALLED USING THE FOLLOWING METHODS: DRY OPEN CUT METHOD (DAM & PUMP OR FLUME) OR HORIZONTAL DIRECTIONAL DRILLING (HDD).	
5. TREE LINE DATA IS SUBJECT TO CHANGE BASED ON POTENTIAL PRE-CONSTRUCTION SURVEYS.	

SOIL LEGEND	
DooB	DOWNER LOAMY SAND, 0 TO 5 PERCENT SLOPES, NORTHERN COASTAL PLAIN
DooC	DOWNER URBAN LAND COMPLEX, 5 TO 10 PERCENT SLOPES
EveBd	EVESBORO SAND, 10 TO 15 PERCENT SLOPES
PdAv	PAWCATUCK-TRANSQUAKING COMPLEX, 0 TO 2 PERCENT SLOPES, VERY FREQUENTLY FLOODED
PHG	PITS, SAND AND GRAVEL
PsaA	PSA MENTALS, 0 TO 3 PERCENT SLOPES
PsbB	PSA MENTALS, WASTE SUBSTRATUM, 0 TO 8 PERCENT SLOPES
SsCc	SASSAFRAS SANDY LOAM, 5 TO 10 PERCENT SLOPES, NORTHERN COASTAL PLAIN
SsCc	SASSAFRAS SANDY LOAM, 5 TO 10 PERCENT SLOPES
SsB	SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPES
Ur	URBAN LAND

EROSION CONTROL TYPICAL LAYOUT	
LIMITS OF DISTURBANCE	
1. UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE	

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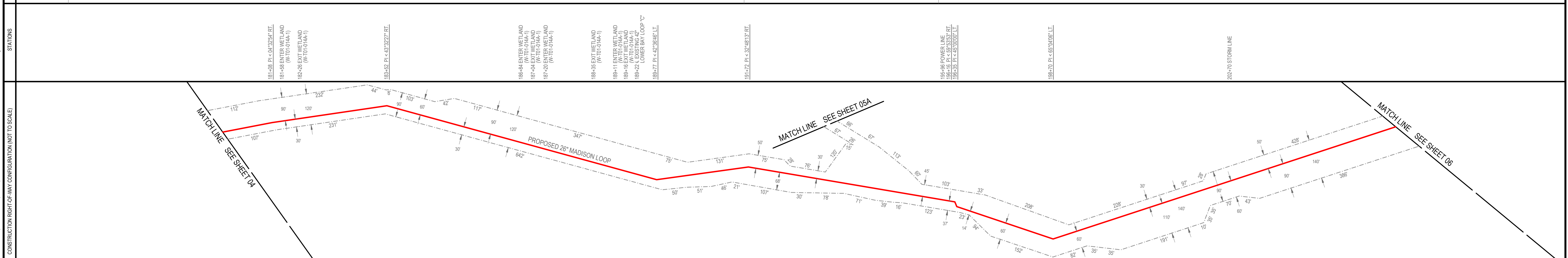
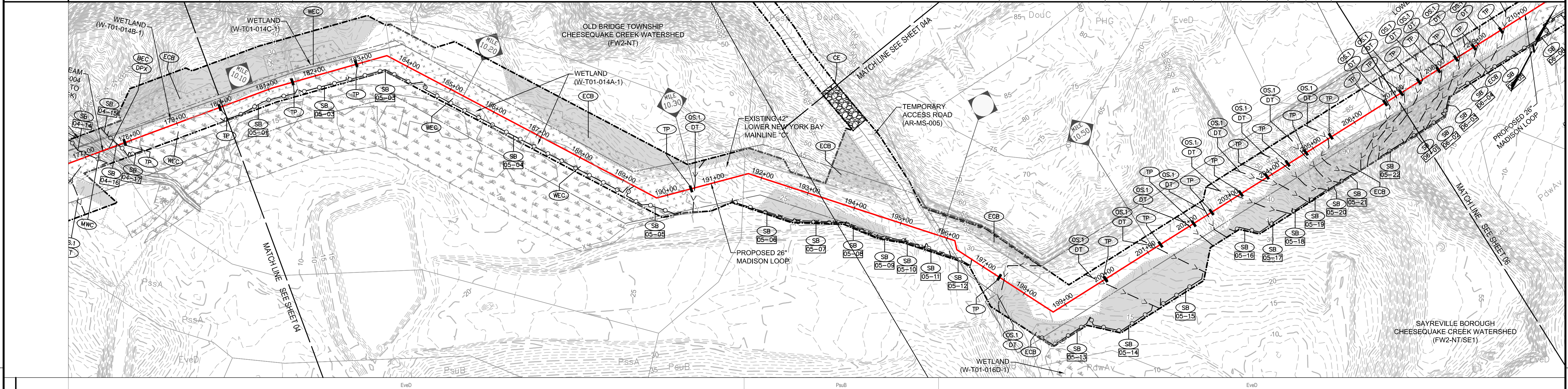
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 APPROVED BY: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-28-D SHEET 04A  
 W.O. 60515775 OF 21



NEW JERSEY  
 PROFESSIONAL ENGINEER NO GE32586

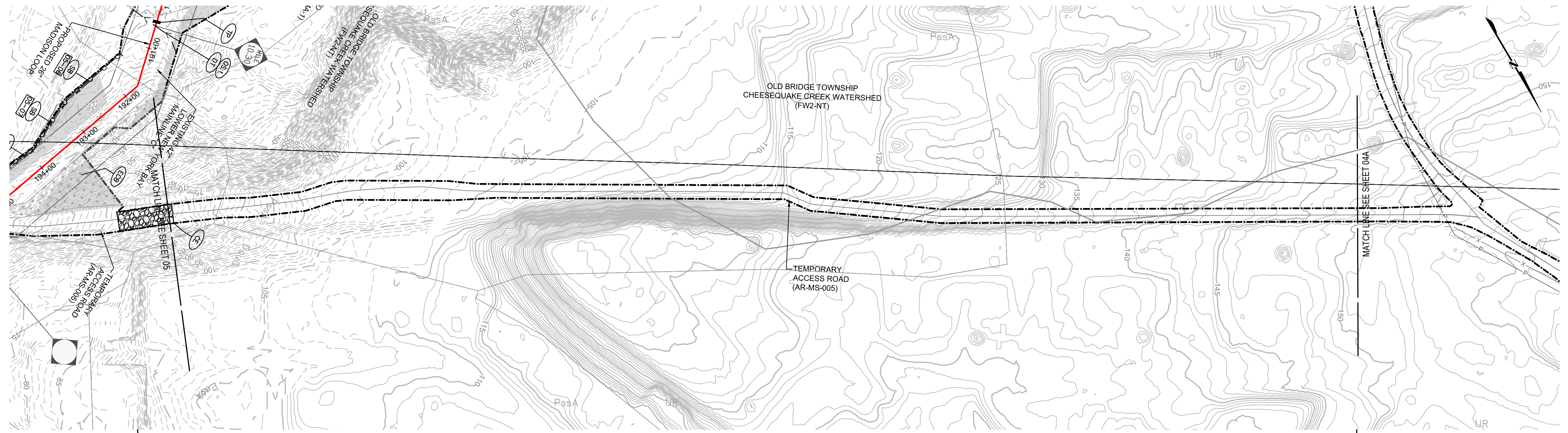


OWNERSHIP	180+00	PARKWOOD GARDENS ASSOCIATES/MADISON NJ-MI-12	181+72	RCK INC NJ-MI-17	186+04	LA MER III C. LLC NJ-MI-18	187+58	LA MER VI, LLC NJ-MI-19	203+16	LA MER V LLC NJ-MI-21	207+00																					
CONSTRUCTION WINDOW OR RESTRICTION																																
CONSTRUCTION METHOD	180+00	STANDARD	181+08	WET	182+26	STANDARD	185+04	WET	187+04	STANDARD	187+20	WET	188+35	STANDARD	189+11	WET	189+16	STANDARD														
TOPSOIL SALVAGE			181+08	TSW	182+26		186+04	TSW	187+04	TSW	187+20	TSW	188+35																			
DIVERSION TERRACES																																
TRENCH BREAKERS	180+58		181+52		182+58		189+50		190+50		192+58		197+51		199+87		201+19		202+00		202+44		203+17		203+77		204+32		204+77		205+44	



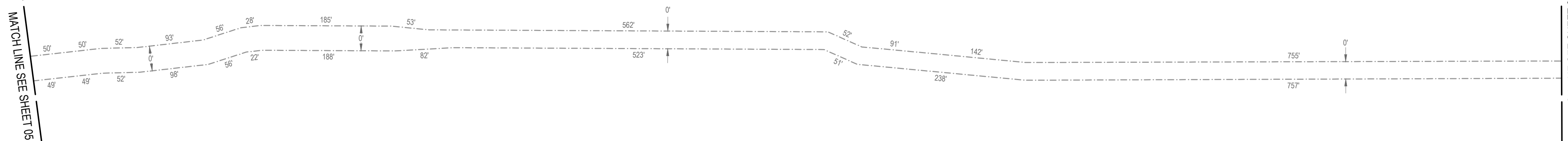
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THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.</li> <li>TOTAL DISTURBED AREA THIS SHEET IS 7.61 AC / 331294.32 S.F.</li> <li>TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS 671.17 L.F.</li> <li>TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS 2431.50 L.F.</li> <li>TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS N/A L.F.</li> <li>TOTAL LENGTH OF FILTER SOCK THIS SHEET IS N/A L.F.</li> </ol>	<h3>CONSTRUCTION LEGEND</h3> <ul style="list-style-type: none"> <li>STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.</li> <li>DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.</li> <li>WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. 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UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE</p>																														
<h3>REVISIONS</h3> <table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>W.O. NO.</th> <th>CHK.</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>08/15/17</td> <td>ERL</td> <td>SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT</td> <td>60515775</td> <td>PPH</td> <td>KDM</td> </tr> <tr> <td>1</td> <td>05/07/18</td> <td>SMR</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> <tr> <td>2</td> <td>06/05/18</td> <td>PPH</td> <td>SUBMITTED TO NJDEP</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> </tbody> </table>		NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.	0	08/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM	1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH	2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH	<p><b>TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.</b>  <b>SOIL EROSION &amp; SEDIMENT CONTROL PLAN</b>  <b>NORTHEAST SUPPLY ENHANCEMENT PROJECT</b>  <b>PROPOSED 26" MADISON LOOP</b>  <b>3.43 MI. - M.P. 8.57 TO M.P. 12.00</b>  <b>MIDDLESEX COUNTY, NEW JERSEY</b></p>		<p><b>AECOM</b>  625 WEST RIDGE PIKE, SUITE E-100  CONSHOHOCKEN, PA 19028  (610) 832-3500</p> <p>NEW JERSEY  PROFESSIONAL ENGINEER NO G52586</p>		<p>DRAWN BY: ERL DATE: 06/15/17 ISSUED FOR BLD: TBD SCALE: 1" = 100'</p> <p>CHECKED BY: PPH DATE: 06/15/17 ISSUED FOR CONSTRUCTION: TBD REVISION: 2</p> <p>APPROVED BY: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-28-D SHEET 05 OF 21</p> <p>WO: 60515775</p>	
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2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH																													

Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg  
Drawn By & Date/Time: harsp, May 30, 2018 - 11:57am  
Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg



MATCH LINE SEE SHEET 05

MATCH LINE SEE SHEET 04A



**GENERAL NOTES**

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2. BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83.
3. ANY DISTURBANCE IN A WATERBODY OR WETLANDS SHALL CONFORM WITH THE WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES.
4. CONSTRUCTION AND RESTORATION SHALL CONFORM TO THE UPLAND EROSION CONTROL, REVEGETATION AND MITIGATION PLAN.
5. CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.
6. WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.
7. TOTAL DISTURBED AREA THIS SHEET IS 1.36 AC/ 59399.82 S.F.
8. TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS 0.00 L.F.
9. TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS 0.00 L.F.
10. TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS N/A L.F.
11. TOTAL LENGTH OF FILTER SOCK THIS SHEET IS N/A L.F.



**CONSTRUCTION LEGEND**

- STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.
- DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.
- WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREE STUMPS AND GRADING ACTIVITIES DIRECTLY OVER TRENCH LINE.
- RES - RESIDENTIAL CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. DO NOT COMMENCE CLEARING AND GRADING UNTIL AFTER PIPELINE IS READY TO BE INSTALLED. BACKFILL AND RESTORE DISTURBED AREAS AS SOON AS POSSIBLE.
- TS1 - STRIP TOPSOIL FROM THE TRENCH LINE AND SUBSOIL STORAGE AREAS. PREVENT TOPSOIL AND SUBSOIL FROM MIXING.
- TSW - SEGREGATE THE TOP ONE-FOOT OF TOPSOIL FROM THE TRENCH LINE. EXCEPT IN AREAS WHERE STANDING WATER OR SATURATED SOILS ARE PRESENT.
- BORE - SHORT REACH TRENCHLESS TECHNOLOGY BELOW ROADS. EXCAVATE A PIT ON EITHER SIDE OF PROPOSED BORE. SEGREGATE TOPSOIL. BORE BETWEEN PITS AND PULL PIPE THROUGH BORE HOLE. CONNECT PIPE TO PIPELINE OR CAP FOR LATER CONNECTION. CLOSE PITS, PLACE TOPSOIL, AND RE-VEGETATE.
- HDD - (HORIZONTAL DIRECTIONAL DRILL) - LONG REACH TRENCHLESS TECHNOLOGY BELOW SENSITIVE AREAS. EXCAVATE A PIT (LAUNCHING OR RECEIVING) ON EITHER SIDE OF PROPOSED HDD. SEGREGATE TOPSOIL. DRILL BETWEEN PITS AND PULL PIPE THROUGH HOLE. CONNECT PIPE TO PIPELINE OR CAP FOR LATER CONNECTION. CLOSE PITS, PLACE TOPSOIL, AND RE-VEGETATE.

**EROSION CONTROL LEGEND**

- 150 - EXISTING MAJOR CONTOUR
- - - - EXISTING MINOR CONTOUR
- - - - STREAM CENTERLINE
- WETLAND
- TREE LINE
- TREE
- WATER WELL
- PARCEL LINE
- EXISTING ACCESS ROADS
- X - FENCE LINE
- P - EXISTING OVERHEAD POWER LINE
- EXISTING PIPELINE
- PROPOSED PIPELINE
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- ACIDIC SOIL TYPE BOUNDARY
- FEMA FLOOD HAZARD ZONES
- SOIL TYPE BOUNDARY
- SOIL TYPE
- PHG
- LIMIT OF DISTURBANCE
- SAFETY FENCE
- SEDIMENT BARRIER (SILT FENCE)
- COMPOST FILTER SOCK SEDIMENT TRAP
- TRENCH PLUG
- DIVERSION TERRACE
- DIVERSION BERM
- FLUME PIPE AND RIPRAP APRON
- CONSTRUCTION ENTRANCE
- TREE CLEARING AREA
- EROSION CONTROL BLANKET
- TIMBER MATTING
- WATERSHED DIVIDE BOUNDARY
- EROSION CONTROL MEASURE
- EROSION CONTROL MEASURE NUMBER
- TOP SOIL SEGREGATION
- PROPOSED STONE
- HDD FOOT TRAFFIC ONLY AREA

**PROJECT SPECIFIC NOTES**

1. EROSION CONTROL MEASURE AS DEPICTED IN THESE PLANS ARE INTENDED AS GUIDELINES AND MAY BE ADJUSTED BY WILLIAMS ENVIRONMENTAL INSPECTORS TO MEET ACTUAL FIELD CONDITIONS.
2. COMPANY ENVIRONMENTAL INSPECTOR SHALL DETERMINE LOCATION WHERE HYDROSTATIC DEWATERING STRUCTURE (DS.2) IS TO BE LOCATED.
3. CONTRACTOR SHALL BE REQUIRED TO KEEP ROADS WHERE CONSTRUCTION SPREAD WILL ENTER AND EXIT PROJECT CORRIDOR CLEAN OF CONSTRUCTION RELATED DEBRIS AT ALL TIMES.
4. ALL WATERBODY CROSSINGS TO BE INSTALLED USING THE FOLLOWING METHODS: DRY OPEN CUT METHOD (DAM & PUMP OR FLUME) OR HORIZONTAL DIRECTIONAL DRILLING (HDD).
5. TREE LINE DATA IS SUBJECT TO CHANGE BASED ON POTENTIAL PRE-CONSTRUCTION SURVEYS.

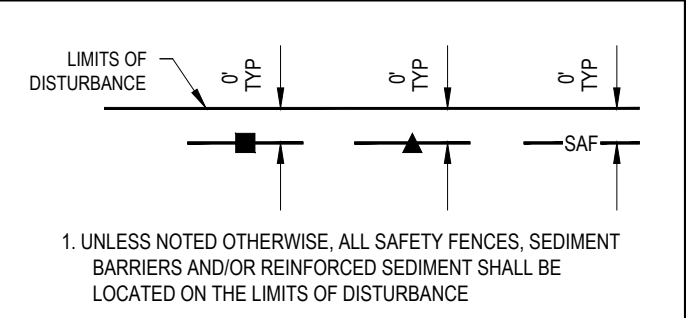
KEVIN MCKEON, P.E.  
NEW JERSEY  
PROFESSIONAL ENGINEER NO GE32586

REVISIONS						
NO	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.
0	08/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH

**SOIL LEGEND**

- DooB DOWNER LOAMY SAND, 0 TO 5 PERCENT SLOPES, NORTHERN COASTAL PLAIN
- DooC DOWNER URBAN LAND COMPLEX, 5 TO 10 PERCENT SLOPES
- EveD EVESBORO SAND, 10 TO 15 PERCENT SLOPES
- PdAv PAWCATUCK-TRANSQUAKING COMPLEX, 0 TO 2 PERCENT SLOPES, VERY FREQUENTLY FLOODED
- PHG PITS, SAND AND GRAVEL
- Psa PSAMMENTS, 0 TO 3 PERCENT SLOPES
- Psb PSAMMENTS, WASTE SUBSTRATUM, 0 TO 8 PERCENT SLOPES
- SsC SASSAFRAS SANDY LOAM, 5 TO 10 PERCENT SLOPES, NORTHERN COASTAL PLAIN
- SsC SASSAFRAS GRAVELLY SANDY LOAM, 5 TO 10 PERCENT SLOPES
- SsB SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPES
- Ur URBAN LAND

**EROSION CONTROL TYPICAL LAYOUT**



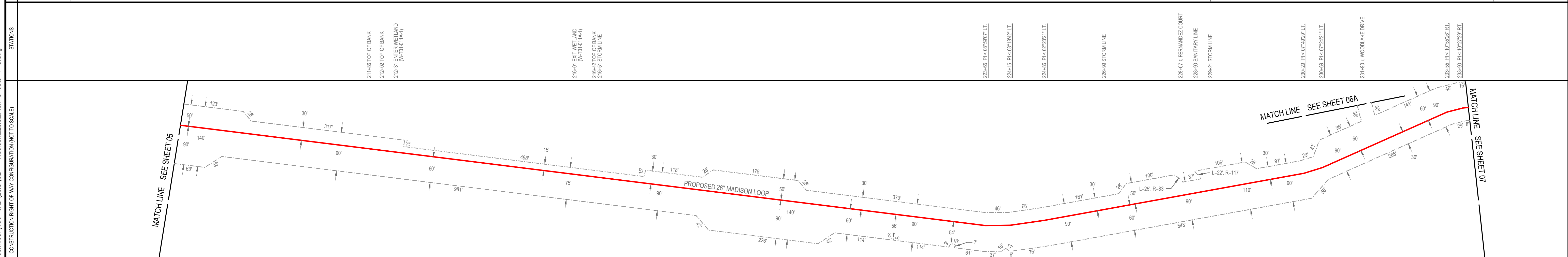
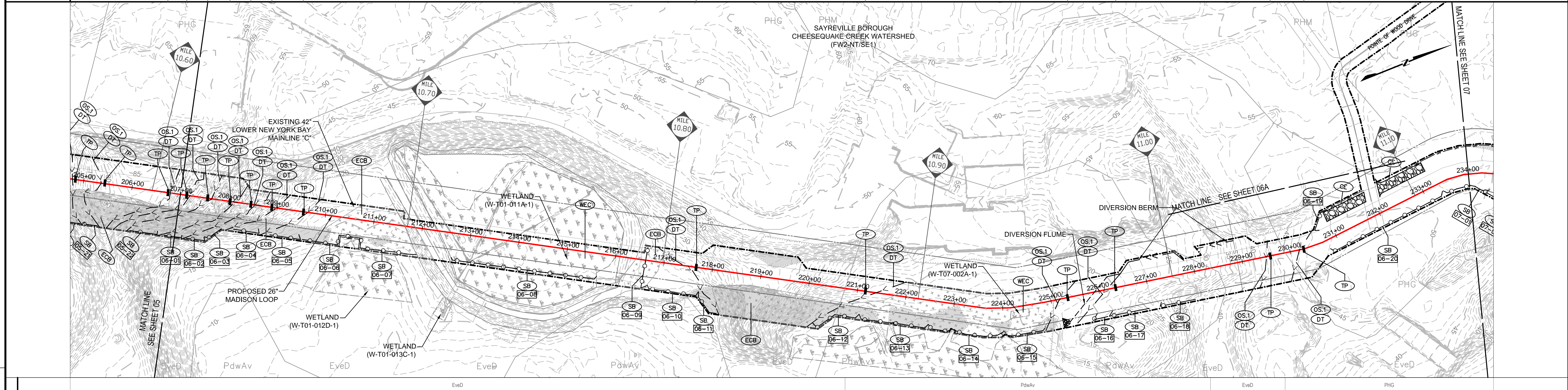
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION & SEDIMENT CONTROL PLAN  
NORTHEAST SUPPLY ENHANCEMENT PROJECT  
PROPOSED 26" MADISON LOOP  
3.43 MI. - M.P. 8.57 TO M.P. 12.00  
MIDDLESEX COUNTY, NEW JERSEY



DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR: BD: TBD	SCALE:
CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 05A
NO: 60515775			OF 21

Drawn By: & Date/Time: hnspp, May 30, 2018 11:58am  
Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg

OWNERSHIP	207+00	LA MER V LLC NJ-MI-21	224+00	LA MER V LLC NJ-MI-27	232+24	LA MER V LLC NJ-MI-27	234+00
CONSTRUCTION WINDOW OR RESTRICTION							
CONSTRUCTION METHOD	207+00	STANDARD	212+31	WET	216+01	STANDARD	234+00
TOPSOIL SALVAGE			212+31	TSW	216+01		
DIVERSION TERRACES	206+74	206+79	207+20	207+45	208+11	208+56	208+98
TRENCH BREAKERS	206+74	207+13	207+56	208+03	208+46	208+89	209+54



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- CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.
- WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.
- TOTAL DISTURBED AREA THIS SHEET IS 5.92 AC / 257820.30 S.F.
- TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS 149.26 L.F.
- TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS 2188.85 L.F.
- TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS N/A L.F.
- TOTAL LENGTH OF FILTER SOCK THIS SHEET IS N/A L.F.

SCALE IN FEET

**CALL BEFORE YOU DIG**  
1-800-272-1000  
IT'S THE LAW  
NEW JERSEY ONE CALL Dig Safety

**CONSTRUCTION LEGEND**

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**EROSION CONTROL LEGEND**

150 - EXISTING MAJOR CONTOUR  
- - - EXISTING MINOR CONTOUR  
- - - STREAM CENTERLINE  
[Hatched] WETLAND  
[Tree Symbol] TREE LINE  
[Water Well Symbol] WATER WELL  
[Parcel Line Symbol] PARCEL LINE  
[Dashed Line] EXISTING ACCESS ROADS  
[X] FENCE LINE  
[P] EXISTING OVERHEAD POWER LINE  
[Red Line] EXISTING PIPELINE  
[Red Line with X] PROPOSED PIPELINE  
[Dashed Line] EXISTING RIGHT OF WAY  
[Dashed Line] NEW RIGHT OF WAY  
[Dashed Line] ACIDIC SOIL TYPE BOUNDARY  
[Dashed Line] FEMA FLOOD HAZARD ZONES  
[Dashed Line] SOIL TYPE BOUNDARY  
[Dashed Line] SOIL TYPE

--- LIMIT OF DISTURBANCE  
--- SAFETY FENCE  
--- SEDIMENT BARRIER (SILT FENCE)  
--- COMPOST FILTER SOCK SEDIMENT TRAP  
--- TRENCH PLUG  
--- DIVERSION TERRACE  
--- DIVERSION BERM  
--- FLUME PIPE AND RIPRAP APRON  
[Blanket Symbol] EROSION CONTROL BLANKET  
[Matting Symbol] TIMBER MATTING  
[Clearing Area Symbol] TREE CLEARING AREA  
--- WATERSHED DIVIDE BOUNDARY  
[XX] EROSION CONTROL MEASURE  
[02-01] EROSION CONTROL MEASURE NUMBER  
[TSS] TOP SOIL SEGREGATION  
[Proposed Stone Symbol] PROPOSED STONE  
[HDD Foot Traffic Only Area Symbol] HDD FOOT TRAFFIC ONLY AREA

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KEVIN MCKEON, P.E.  
NEW JERSEY PROFESSIONAL ENGINEER NO G32586

REVISIONS						
NO	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.
0	08/15/17	ERL	SUBMITTED TO FRESHFIELD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH

**SOIL LEGEND**

DooB DOWNER LOAMY SAND, 0 TO 5 PERCENT SLOPES, NORTHERN COASTAL PLAIN  
DooC DOWNER URBAN LAND COMPLEX, 5 TO 10 PERCENT SLOPES  
EveD EVERSORO SAND, 10 TO 15 PERCENT SLOPES  
PdwAv PAWCATUCK-TRANQUAKING COMPLEX, 0 TO 2 PERCENT SLOPES, VERY FREQUENTLY FLOODED  
PHG PITS, SAND AND GRAVEL  
PpsA PMSAMENTS, 0 TO 3 PERCENT SLOPES  
PpsB PMSAMENTS, WASTE SUBSTRATUM, 0 TO 8 PERCENT SLOPES  
SsAc SASSAFRAS SANDY LOAM, 5 TO 10 PERCENT SLOPES, NORTHERN COASTAL PLAIN  
SsAc SASSAFRAS GRAVELLY SANDY LOAM, 5 TO 10 PERCENT SLOPES  
SsB SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPES  
Ur URBAN LAND

**EROSION CONTROL TYPICAL LAYOUT**

LIMITS OF DISTURBANCE

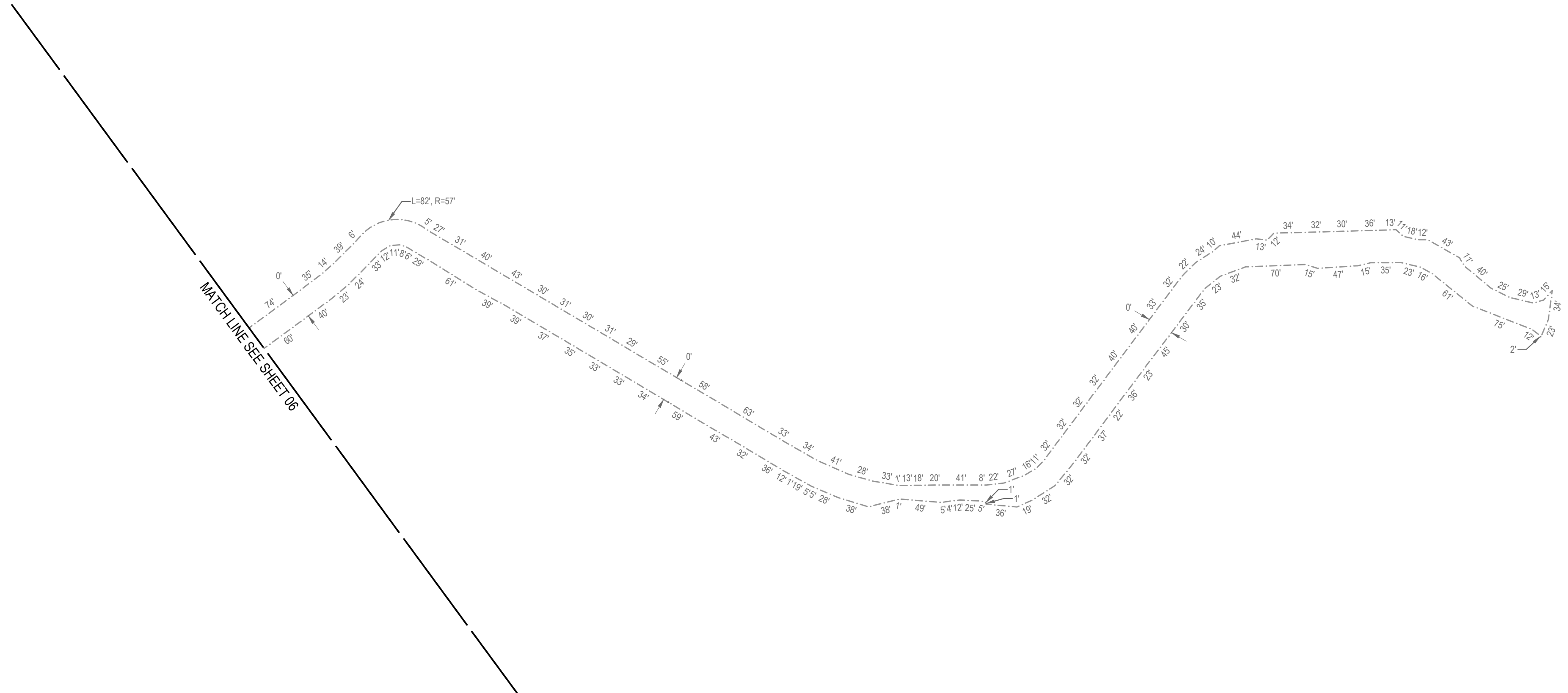
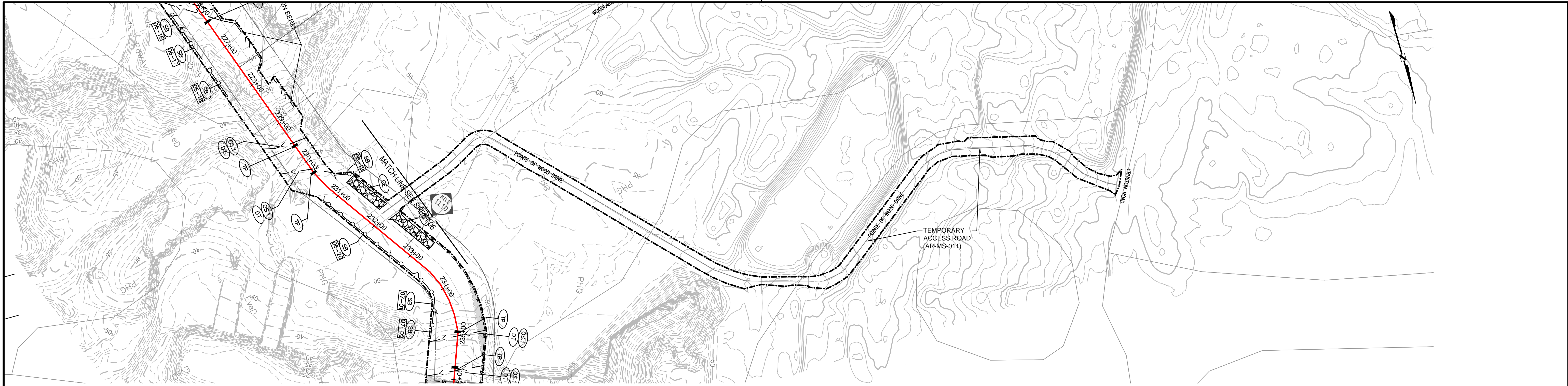
1. UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION & SEDIMENT CONTROL PLAN  
NORTHEAST SUPPLY ENHANCEMENT PROJECT  
PROPOSED 26" MADISON LOOP  
3.43 MI. - M.P. 8.57 TO M.P. 12.00  
MIDDLESEX COUNTY, NEW JERSEY

**Williams**  
GAS PIPELINE

DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR BD: TBD	SCALE: 1" = 100'
CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 06 OF 21

Drawn By: Date/Time: harsp May 30, 2018 11:58am  
 Drawing Location & Name: S:\Projects\ENV\60515775\_NESP\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg  
 CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)



Drawn By: & Date: /Time: hense, May 30, 2018 11:58am  
 Drawing Location & Name: S:\Projects\ENV\60515775\_NESC\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg

GENERAL NOTES	
1. THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1989.	
2. BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83.	
3. ANY DISTURBANCE IN A WATERBODY OR WETLANDS SHALL CONFORM WITH THE WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES.	
4. CONSTRUCTION AND RESTORATION SHALL CONFORM TO THE UPLAND EROSION CONTROL, REVEGETATION AND MITIGATION PLAN.	
5. CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.	
6. WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.	
7. TOTAL DISTURBED AREA THIS SHEET IS _____	1.19 AC/ 51992.53 S.F.
8. TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS _____	0.00 L.F.
9. TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS _____	0.00 L.F.
10. TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS _____	N/A L.F.
11. TOTAL LENGTH OF FILTER SOCK THIS SHEET IS _____	N/A L.F.

CONSTRUCTION LEGEND	
STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.	
DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.	
WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREE STUMPS AND GRADING ACTIVITIES DIRECTLY OVER TRENCH LINE.	
RES - RESIDENTIAL CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. DO NOT COMMENCE CLEARING AND GRADING UNTIL AFTER PIPELINE IS READY TO BE INSTALLED. BACKFILL AND RESTORE DISTURBED AREAS AS SOON AS POSSIBLE.	
TS1 - STRIP TOPSOIL FROM THE TRENCH LINE AND SUBSOIL STORAGE AREAS. PREVENT TOPSOIL AND SUBSOIL FROM MIXING.	
TSW - SEGREGATE THE TOP ONE-FOOT OF TOPSOIL FROM THE TRENCH LINE. EXCEPT IN AREAS WHERE STANDING WATER OR SATURATED SOILS ARE PRESENT.	
BORE - SHORT REACH TRENCHLESS TECHNOLOGY BELOW ROADS. EXCAVATE A PIT ON EITHER SIDE OF PROPOSED BORE. SEGREGATE TOPSOIL. BORE BETWEEN PITS AND PULL PIPE THROUGH BORE HOLE. CONNECT PIPE TO PIPELINE OR CAP FOR LATER CONNECTION. CLOSE PITS, PLACE TOPSOIL, AND RE-VEGETATE.	
HDD - (HORIZONTAL DIRECTIONAL DRILL) - LONG REACH TRENCHLESS TECHNOLOGY BELOW SENSITIVE AREAS. EXCAVATE A PIT (LAUNCHING OR RECEIVING) ON EITHER SIDE OF PROPOSED HDD. SEGREGATE TOPSOIL, DRILL BETWEEN PITS AND PULL PIPE THROUGH HOLE. CONNECT PIPE TO PIPELINE OR CAP FOR LATER CONNECTION. CLOSE PITS, PLACE TOPSOIL, AND RE-VEGETATE.	

EROSION CONTROL LEGEND	
150 - EXISTING MAJOR CONTOUR	--- LIMIT OF DISTURBANCE
--- EXISTING MINOR CONTOUR	--- SAFETY FENCE
--- STREAM CENTERLINE	--- SEDIMENT BARRIER (SILT FENCE)
WETLAND	--- COMPOST FILTER SOCK SEDIMENT TRAP
TREE LINE	--- DIVERSION TERRACE
TREE	--- TRENCH PLUG
WATER WELL	--- DIVERSION BERM
PARCEL LINE	--- FLUME PIPE AND RIPRAP APRON
EXISTING ACCESS ROADS	--- CONSTRUCTION ENTRANCE
FENCE LINE	--- TREE CLEARING AREA
EXISTING OVERHEAD POWER LINE	--- WATERSHED DIVIDE BOUNDARY
EXISTING PIPELINE	--- EROSION CONTROL MEASURE
PROPOSED PIPELINE	--- EROSION CONTROL MEASURE NUMBER
EXISTING RIGHT OF WAY	--- TOP SOIL SEGREGATION
NEW RIGHT OF WAY	--- PROPOSED STONE
ACIDIC SOIL TYPE BOUNDARY	--- HDD FOOT TRAFFIC ONLY AREA
FEMA FLOOD HAZARD ZONES	
SOIL TYPE BOUNDARY	
SOIL TYPE	

PROJECT SPECIFIC NOTES	
1. EROSION CONTROL MEASURE AS DEPICTED IN THESE PLANS ARE INTENDED AS GUIDELINES AND MAY BE ADJUSTED BY WILLIAMS ENVIRONMENTAL INSPECTORS TO MEET ACTUAL FIELD CONDITIONS.	
2. COMPANY ENVIRONMENTAL INSPECTOR SHALL DETERMINE LOCATION WHERE HYDROSTATIC DEWATERING STRUCTURE (DS.2) IS TO BE LOCATED.	
3. CONTRACTOR SHALL BE REQUIRED TO KEEP ROADS WHERE CONSTRUCTION SPREAD WILL ENTER AND EXIT PROJECT CORRIDOR OR CLEAN OR CONSTRUCTION RELATED DEBRIS AT ALL TIMES.	
4. ALL WATERBODY CROSSINGS TO BE INSTALLED USING THE FOLLOWING METHODS: DRY OPEN CUT METHOD (DAM & PUMP OR FLUME) OR HORIZONTAL DIRECTIONAL DRILLING (HDD).	
5. TREE LINE DATA IS SUBJECT TO CHANGE BASED ON POTENTIAL PRE-CONSTRUCTION SURVEYS.	

SOIL LEGEND	
DooB	DOWNER LOAMY SAND, 0 TO 5 PERCENT SLOPES, NORTHERN COASTAL PLAIN
DooC	DOWNER URBAN LAND COMPLEX, 5 TO 10 PERCENT SLOPES
EveD	EVEBORO SAND, 10 TO 15 PERCENT SLOPES
PdAv	PAWCATUCK-TRANSQUAKING COMPLEX, 0 TO 2 PERCENT SLOPES, VERY FREQUENTLY FLOODED
PHG	PITS, SAND AND GRAVEL
PpsA	PSAMMENTS, 0 TO 3 PERCENT SLOPES
PpsB	PSAMMENTS, WASTE SUBSTRATUM, 0 TO 8 PERCENT SLOPES
SsAc	SASSAFRAS SANDY LOAM, 5 TO 10 PERCENT SLOPES, NORTHERN COASTAL PLAIN
SsAc	SASSAFRAS GRAVELLY SANDY LOAM, 5 TO 10 PERCENT SLOPES
SsB	SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPES
Ur	URBAN LAND

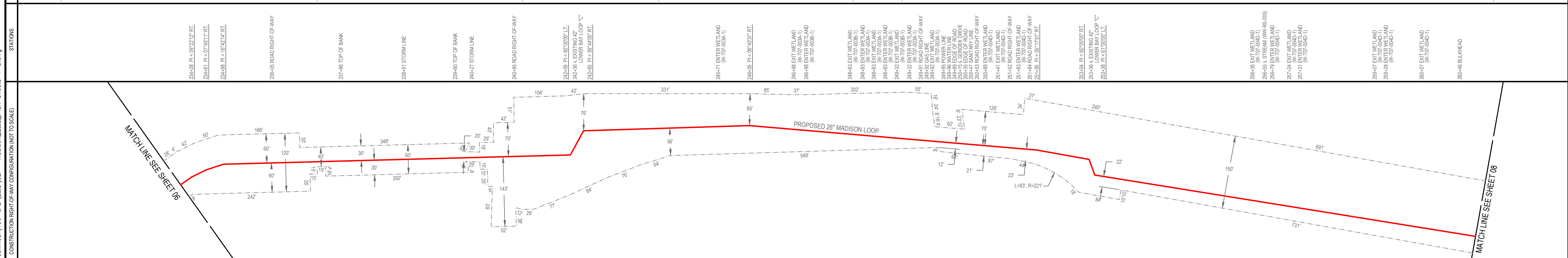
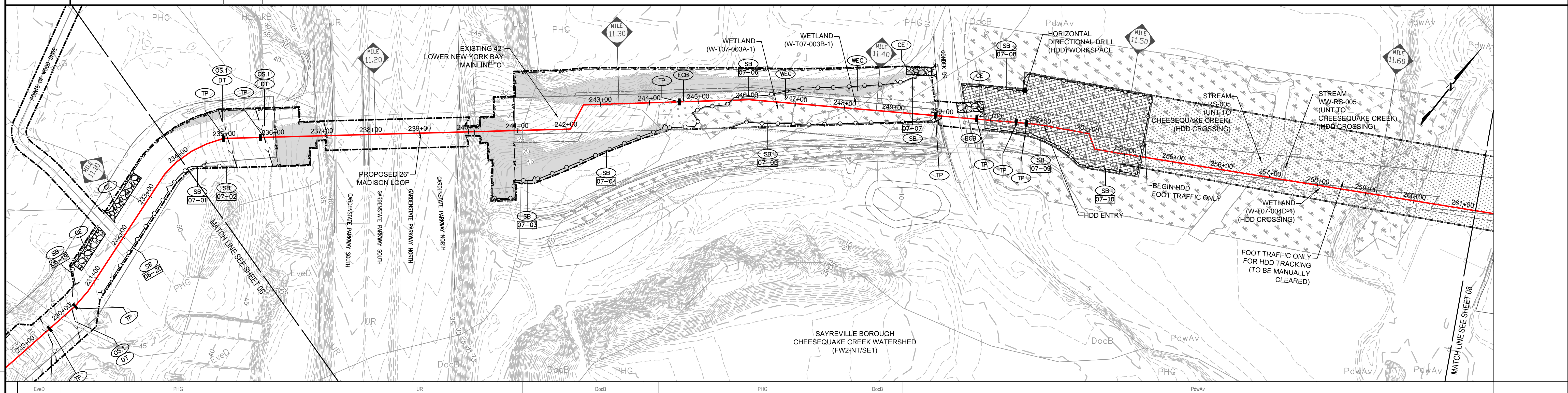
EROSION CONTROL TYPICAL LAYOUT	
LIMITS OF DISTURBANCE	
1. UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE	

KEVIN MCKEON, P.E.		REVISIONS				
NO	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.
0	08/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.			
SOIL EROSION & SEDIMENT CONTROL PLAN			
NORTHEAST SUPPLY ENHANCEMENT PROJECT			
PROPOSED 26" MADISON LOOP			
3.43 MI. - M.P. 8.57 TO M.P. 12.00			
MIDDLESEX COUNTY, NEW JERSEY			
DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR BID: TBD	SCALE:
CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 06A
WO: 60515775			OF 21



OWNERSHIP	234+00	LA MER VI LLC NJ-MI-27	236+05	GARDEN STATE PARKWAY NJ-MI-003.000.RD	240+05	HARBOUR CLUB CONDOMINIUM ASSOCIATION, INC. NJ-MI-32	246+01	GONDEK DRIVE NJ-MI-004.000.RD	250+03	BOROUGH OF SAYREVILLE NJ-MI-33	251+02	CROSS WAY CREEK (WATER CROSSING) NJ-MI-005.000.RD	251+04	BOROUGH OF SAYREVILLE NJ-MI-34	261+41	LOCKWOOD MARINA, LLC NJ-MI-35	261+00				
CONSTRUCTION WINDOW OR RESTRICTION																					
CONSTRUCTION METHOD	234+00	STANDARD	236+05	BORE	240+05	STANDARD	246+01	WET	249+02	BORE	250+03	STANDARD	251+02	WET	251+04	STANDARD	251+04	WET	251+04	HDD	261+00
TOPSOIL SALVAGE								TSW	249+02		250+03	TSW	251+02		251+04	TSW	251+04				
DIVERSION TERRACES																					
TRENCH BREAKERS																					



**GENERAL NOTES**

- THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.
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- ANY DISTURBANCE IN A WATERBODY OR WETLANDS SHALL CONFORM WITH THE WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES.
- CONSTRUCTION AND RESTORATION SHALL CONFORM TO THE UPLAND EROSION CONTROL, REVEGETATION AND MITIGATION PLAN.
- CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.
- WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.
- TOTAL DISTURBED AREA THIS SHEET IS 7.85 AC / 342153.23 S.F.
- TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS 1336.21 L.F.
- TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS 2442.03 L.F.
- TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS N/A L.F.
- TOTAL LENGTH OF FILTER SOCK THIS SHEET IS N/A L.F.

SCALE IN FEET

**CALL BEFORE YOU DIG**  
1-800-272-1000  
IT'S THE LAW  
NEW JERSEY ONE CALL Dig Safety

**CONSTRUCTION LEGEND**

- STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFIED AND STAKED CONSTRUCTION LIMITS.
- DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.
- WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREE STUMPS AND GRADING ACTIVITIES DIRECTLY OVER TRENCH LINE.
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- TS1 - STRIP TOPSOIL FROM THE TRENCH LINE AND SUBSOIL STORAGE AREAS. PREVENT TOPSOIL AND SUBSOIL FROM MIXING.
- TSW - SEGREGATE THE TOP ONE-FOOT OF TOPSOIL FROM THE TRENCH LINE. EXCEPT IN AREAS WHERE STANDING WATER OR SATURATED SOILS ARE PRESENT.
- BORE - SHORT REACH TRENCHLESS TECHNOLOGY BELOW ROADS. EXCAVATE A PIT ON EITHER SIDE OF PROPOSED BORE. SEGREGATE TOPSOIL, BORE BETWEEN PITS AND PULL PIPE THROUGH BORE HOLE. CONNECT PIPE TO PIPELINE OR CAP FOR LATER CONNECTION. CLOSE PITS, PLACE TOPSOIL, AND RE-VEGETATE.
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**EROSION CONTROL LEGEND**

- 150 - EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- STREAM CENTERLINE
- WETLAND
- TREE LINE
- TREE
- WATER WELL
- PARCEL LINE
- EXISTING ACCESS ROADS
- FENCE LINE
- EXISTING OVERHEAD POWER LINE
- EXISTING PIPELINE
- PROPOSED PIPELINE
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- ACIDIC SOIL TYPE BOUNDARY
- FEMA FLOOD HAZARD ZONES
- SOIL TYPE BOUNDARY
- SOIL TYPE
- PHG
- LIMIT OF DISTURBANCE
- SAFETY FENCE
- SEDIMENT BARRIER (SILT FENCE)
- COMPOST FILTER SOCK SEDIMENT TRAP
- DIVERSION TERRACE
- TRENCH PLUG
- DIVERSION BERM
- FLUME PIPE AND RIPRAP APRON
- CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET
- TIMBER MATTING
- TREE CLEARING AREA
- WATERSHED DIVIDE BOUNDARY
- EROSION CONTROL MEASURE
- EROSION CONTROL MEASURE NUMBER
- TOP SOIL SEGREGATION
- PROPOSED STONE
- HDD FOOT TRAFFIC ONLY AREA

**PROJECT SPECIFIC NOTES**

- EROSION CONTROL MEASURE AS DEPICTED IN THESE PLANS ARE INTENDED AS GUIDELINES AND MAY BE ADJUSTED BY WILLIAMS ENVIRONMENTAL INSPECTORS TO MEET ACTUAL FIELD CONDITIONS.
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DRY OPEN CUT METHOD (DAM & PUMP OR FLUME) OR HORIZONTAL DIRECTIONAL DRILLING (HDD).
- TREE LINE DATA IS SUBJECT TO CHANGE BASED ON POTENTIAL PRE-CONSTRUCTION SURVEYS.

KEVIN MCKEON, P.E.

**REVISIONS**

NO	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.
0	06/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH

AECOM  
625 WEST RIDGE PIKE, SUITE E-100  
CONSHOHOCKEN, PA 19428  
(610) 832-3500

NEW JERSEY  
PROFESSIONAL ENGINEER NO G532586

**SOIL LEGEND**

- DocB - DOWNER LOAMY SAND, 0 TO 5 PERCENT SLOPES, NORTHERN COASTAL PLAN
- DocC - DOWNER URBAN LAND COMPLEX, 5 TO 10 PERCENT SLOPES
- EveD - EVERSBORO SAND, 10 TO 15 PERCENT SLOPES
- PdwAv - PAWCATUCK-TRANQUARING COMPLEX, 0 TO 2 PERCENT SLOPES, VERY FREQUENTLY FLOODED
- PHG - PITS, SAND AND GRAVEL
- PpsA - PSAMMENTS, 0 TO 3 PERCENT SLOPES
- PpsB - PSAMMENTS, WASTE SUBSTRATUM, 0 TO 8 PERCENT SLOPES
- SsC - SASSAFRAS SANDY LOAM, 5 TO 10 PERCENT SLOPES, NORTHERN COASTAL PLAN
- SsC - SASSAFRAS GRAVELLY SANDY LOAM, 5 TO 10 PERCENT SLOPES
- SsB - SASSAFRAS LOAM, 2 TO 5 PERCENT SLOPES
- Ur - URBAN LAND

**EROSION CONTROL TYPICAL LAYOUT**

LIMITS OF DISTURBANCE

1. UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE

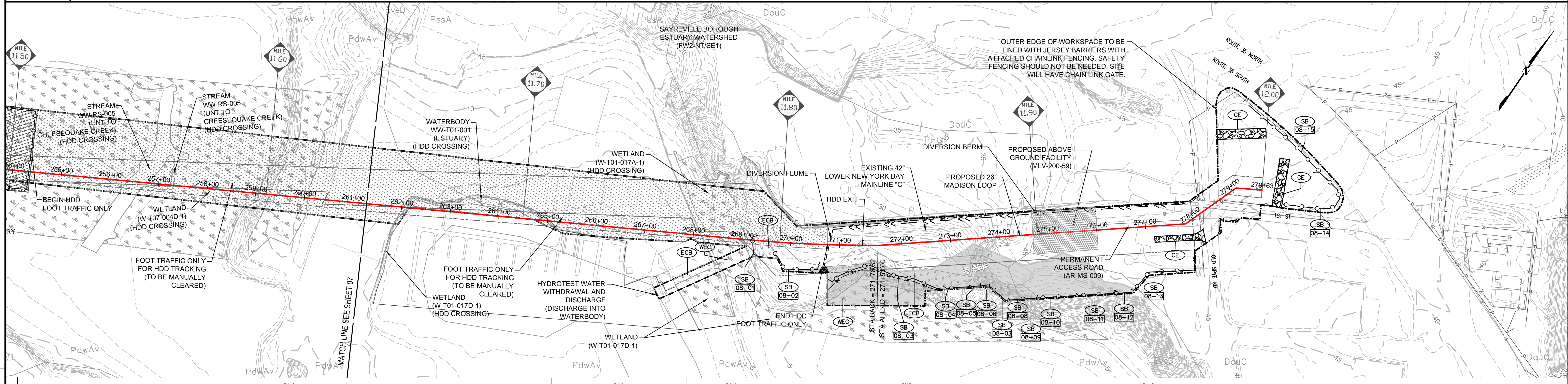
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**Williams**  
GAS PIPELINE

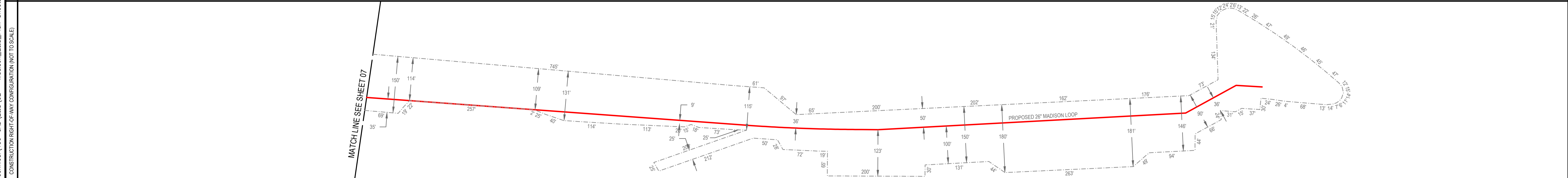
DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR BD: TBD	SCALE: 1" = 100'
CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 07 OF 21

Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg  
 Drawn By & Date/Time: hause, May 30, 2018 11:59am  
 Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg

OWNERSHIP	261+00	268+00	277+00	279+00
CONSTRUCTION WINDOW OR RESTRICTION				
CONSTRUCTION METHOD	261+00	HDD	271+00	279+00
TOPSOIL SALVAGE				
DIVERSION TERRACES				
TRENCH BREAKERS				

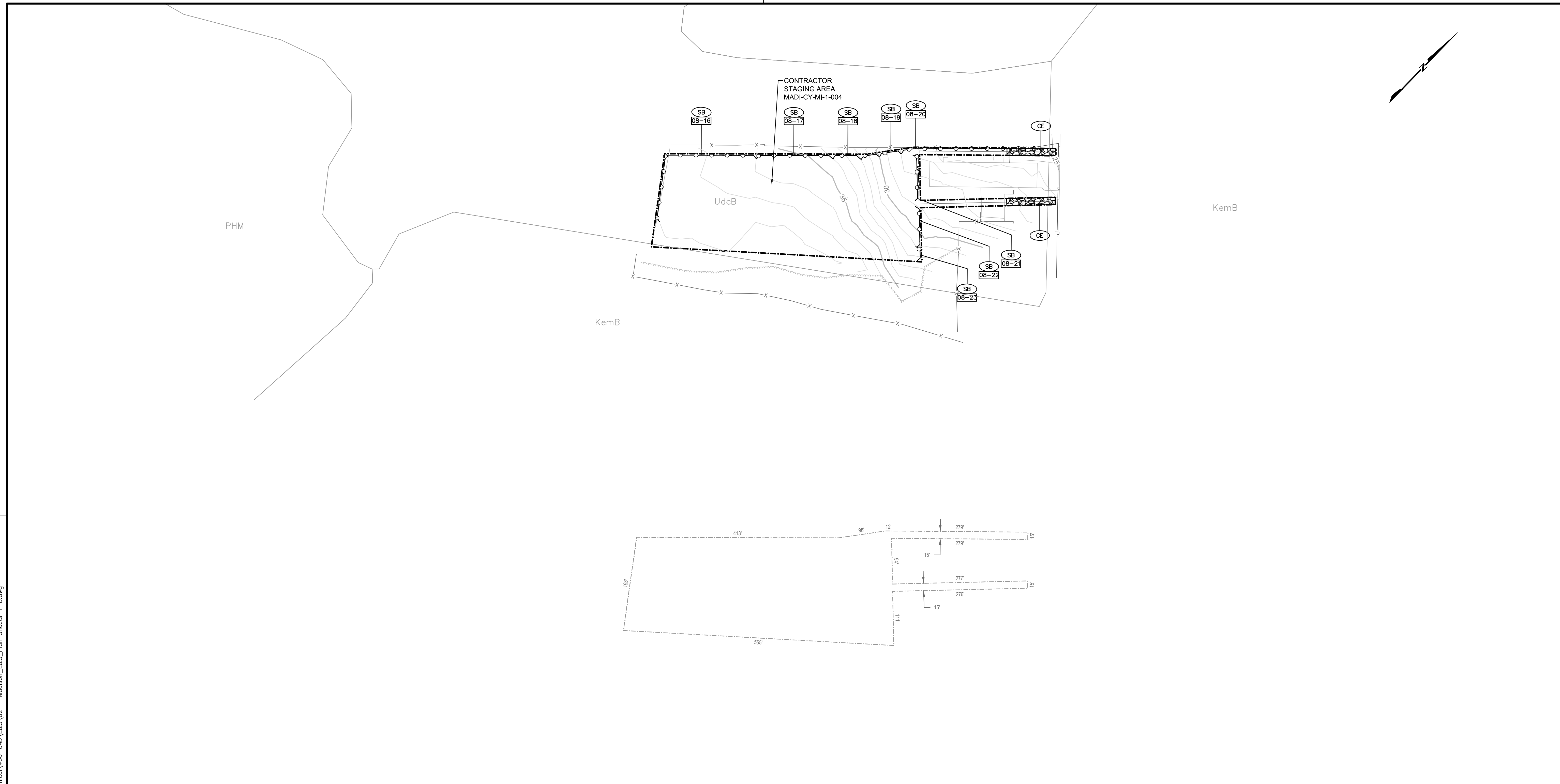


STATIONS	255+00	256+00	257+00	258+00	259+00	260+00	261+00	262+00	263+00	264+00	265+00	266+00	267+00	268+00	269+00	270+00	271+00	272+00	273+00	274+00	275+00	276+00	277+00	278+00	279+00
----------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------



<h3>GENERAL NOTES</h3> <ol style="list-style-type: none"> <li>THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988.</li> <li>BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83.</li> <li>ANY DISTURBANCE IN A WATERBODY OR WETLANDS SHALL CONFORM WITH THE WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES.</li> <li>CONSTRUCTION AND RESTORATION SHALL CONFORM TO THE UPLAND EROSION CONTROL, REVEGETATION AND MITIGATION PLAN.</li> <li>CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.</li> <li>WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.</li> <li>TOTAL DISTURBED AREA THIS SHEET IS 6.75 AC/ 294087.99 S.F.</li> <li>TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS 1206.11 L.F.</li> <li>TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS 1437.35 L.F.</li> <li>TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS N/A L.F.</li> <li>TOTAL LENGTH OF FILTER SOCK THIS SHEET IS N/A L.F.</li> </ol>	<h3>CONSTRUCTION LEGEND</h3> <p>STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.</p> <p>DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.</p> <p>WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREE STUMPS AND GRADING ACTIVITIES DIRECTLY OVER TRENCH LINE.</p> <p>RES - RESIDENTIAL CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. DO NOT COMMENCE CLEARING AND GRADING UNTIL AFTER PIPELINE IS READY TO BE INSTALLED. BACKFILL AND RESTORE DISTURBED AREAS AS SOON AS POSSIBLE.</p> <p>TS1 - STRIP TOPSOIL FROM THE TRENCH LINE AND SUBSOIL STORAGE AREAS. PREVENT TOPSOIL AND SUBSOIL FROM MIXING.</p> <p>TSW - SEGREGATE THE TOP ONE-FOOT OF TOPSOIL FROM THE TRENCH LINE. EXCEPT IN AREAS WHERE STANDING WATER OR SATURATED SOILS ARE PRESENT.</p> <p>BORE - SHORT REACH TRENCHLESS TECHNOLOGY BELOW ROADS. EXCAVATE A PIT ON EITHER SIDE OF PROPOSED BORE. SEGREGATE TOPSOIL, BORE BETWEEN PITS AND PULL PIPE THROUGH BORE HOLE. CONNECT PIPE TO PIPELINE OR CAP FOR LATER CONNECTION. CLOSE PITS, PLACE TOPSOIL, AND RE-VEGETATE.</p> <p>HDD - (HORIZONTAL DIRECTIONAL DRILL) - LONG REACH TRENCHLESS TECHNOLOGY BELOW SENSITIVE AREAS. 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UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE</p>																																				
<p>Drawn By: Date: Time: h: m: s: 11:59 am</p> <p>Drawing Location &amp; Name: S:\Projects\ENV\60515775_NESP_ML_ES_400-Technical\400-CAD\E&amp;S\02 - Madison_E&amp;S_Plan Sheets 1-8.dwg</p> <p>CONSTRUCTION RIGHT-OF-WAY CONFIGURATION (NOT TO SCALE)</p>		<p>KEVIN MCKEON, P.E.</p> <p>NEW JERSEY PROFESSIONAL ENGINEER NO G32586</p>		<table border="1"> <thead> <tr> <th colspan="6">REVISIONS</th> </tr> <tr> <th>NO</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>W.O. NO.</th> <th>CHK</th> <th>APP.</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>08/15/17</td> <td>ERL</td> <td>SUBMITTED TO FRESHOLD SOIL CONSERVATION DISTRICT</td> <td>60515775</td> <td>PPH</td> <td>KDM</td> </tr> <tr> <td>1</td> <td>05/07/18</td> <td>SMR</td> <td>ISSUED FOR CLIENT REVIEW</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> <tr> <td>2</td> <td>06/05/18</td> <td>PPH</td> <td>SUBMITTED TO NJDEP</td> <td>60515775</td> <td>JAC</td> <td>PPH</td> </tr> </tbody> </table>		REVISIONS						NO	DATE	BY	DESCRIPTION	W.O. NO.	CHK	APP.	0	08/15/17	ERL	SUBMITTED TO FRESHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM	1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH	2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH	<p>TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.</p> <p>SOIL EROSION &amp; SEDIMENT CONTROL PLAN</p> <p>NORTHEAST SUPPLY ENHANCEMENT PROJECT</p> <p>PROPOSED 26" MADISON LOOP</p> <p>3.43 MI. - M.P. 8.57 TO M.P. 12.00</p> <p>MIDDLESEX COUNTY, NEW JERSEY</p> <p>Williams GAS PIPELINE</p>	
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<p>SCALE IN FEET</p> <p>0 100 200 300</p> <p>CALL BEFORE YOU DIG 1-800-272-1000</p> <p>IT'S THE LAW NEW JERSEY ONE CALL Dig Safety</p>		<p>AECOM</p> <p>625 WEST RIDGE Pkwy, SUITE E-100</p> <p>CONSHOHOCKEN, PA 19428</p> <p>(610) 832-3500</p>		<p>APPROVED BY: ERL DATE: 06/15/17 ISSUED FOR BID: TBD SCALE: 1" = 100'</p> <p>CHECKED BY: PPH DATE: 06/15/17 ISSUED FOR CONSTRUCTION: TBD REVISION: 2</p> <p>APPROVED BY: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-2-D SHEET 08</p> <p>W.O. 60515775 OF 21</p>																																					

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 Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\_400-Technical\400-CAD\E&S\02 - Madison\_E&S\_Plan Sheets 1-8.dwg



GENERAL NOTES	
1. THE TOPOGRAPHIC FEATURES SHOWN WERE COMPILED FROM FIELD SURVEY MEASUREMENTS AND ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1985.	
2. BEARINGS SHOWN ARE GRID BEARINGS AND REFER TO THE NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD 83.	
3. ANY DISTURBANCE IN A WATERBODY OR WETLANDS SHALL CONFORM WITH THE WATERBODY AND WETLAND CONSTRUCTION AND MITIGATION PROCEDURES.	
4. CONSTRUCTION AND RESTORATION SHALL CONFORM TO THE UPLAND EROSION CONTROL, REVEGETATION AND MITIGATION PLAN.	
5. CONTRACTOR SHALL LIMIT EQUIPMENT TRAVERSING THROUGH THE RESIDENTIAL ZONES.	
6. WATER SHALL BE APPLIED TO WORK AREA SURFACE TO CONTROL DUST. THE APPLICATION SHALL BE PERIODICALLY APPLIED AS NEEDED.	
7. TOTAL DISTURBED AREA THIS SHEET IS _____	2.76 AC/ 120036.46 S.F.
8. TOTAL LENGTH OF SAFETY FENCE THIS SHEET IS _____	0.00 L.F.
9. TOTAL LENGTH OF SEDIMENT BARRIER THIS SHEET IS _____	1193.36 L.F.
10. TOTAL LENGTH OF REINFORCED SEDIMENT BARRIER THIS SHEET IS _____	N/A L.F.
11. TOTAL LENGTH OF FILTER SOCK THIS SHEET IS _____	N/A L.F.

CONSTRUCTION LEGEND	
STND - STANDARD CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CLEAR VEGETATION AND PERFORM GRADING ONLY WITHIN CERTIFICATED AND STAKED CONSTRUCTION LIMITS.	
DRY - WATERBODY CONSTRUCTION RIGHT-OF-WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREES, STUMPS AND GRADING ACTIVITIES TO DIRECTLY OVER TRENCH LINE.	
WET - WETLAND CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. CUT VEGETATION OFF AT GROUND LEVEL. LEAVING ROOT SYSTEMS IN PLACE AND REMOVE VEGETATION FOR DISPOSAL. LIMIT PULLING TREE STUMPS AND GRADING ACTIVITIES DIRECTLY OVER TRENCH LINE.	
RES - RESIDENTIAL CONSTRUCTION RIGHT OF WAY CLEARING AND GRADING. DO NOT COMMENCE CLEARING AND GRADING UNTIL AFTER PIPELINE IS READY TO BE INSTALLED. BACKFILL AND RESTORE DISTURBED AREAS AS SOON AS POSSIBLE.	
TS1 - STRIP TOPSOIL FROM THE TRENCH LINE AND SUBSOIL STORAGE AREAS. PREVENT TOPSOIL AND SUBSOIL FROM MIXING.	
TSW - SEGREGATE THE TOP ONE-FOOT OF TOPSOIL FROM THE TRENCH LINE. EXCEPT IN AREAS WHERE STANDING WATER OR SATURATED SOILS ARE PRESENT.	
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EROSION CONTROL LEGEND	
150 - EXISTING MAJOR CONTOUR	LIMIT OF DISTURBANCE
- - - - - EXISTING MINOR CONTOUR	SAFETY FENCE
--- --- --- STREAM CENTERLINE	SEDIMENT BARRIER (SILT FENCE)
WETLAND	COMPOST FILTER SOCK SEDIMENT TRAP
TREE LINE	DIVERSION TERRACE
TREE	TRENCH PLUG
WATER WELL	DIVERSION BERM
PARCEL LINE	FLUME PIPE AND RIPRAP APRON
EXISTING ACCESS ROADS	CONSTRUCTION ENTRANCE
FENCE LINE	TREE CLEARING AREA
EXISTING OVERHEAD POWER LINE	EROSION CONTROL BLANKET
EXISTING PIPELINE	TIMBER MATTING
PROPOSED PIPELINE	EROSION CONTROL MEASURE
EXISTING RIGHT OF WAY	EROSION CONTROL MEASURE NUMBER
NEW RIGHT OF WAY	WATERSHED DIVIDE BOUNDARY
ACIDIC SOIL TYPE BOUNDARY	TOP SOIL SEGREGATION
FEMA FLOOD HAZARD ZONES	PROPOSED STONE
SOIL TYPE BOUNDARY	HDD FOOT TRAFFIC ONLY AREA
SOIL TYPE	

PROJECT SPECIFIC NOTES	
1. EROSION CONTROL MEASURE AS DEPICTED IN THESE PLANS ARE INTENDED AS GUIDELINES AND MAY BE ADJUSTED BY WILLIAMS ENVIRONMENTAL INSPECTORS TO MEET ACTUAL FIELD CONDITIONS.	
2. COMPANY ENVIRONMENTAL INSPECTOR SHALL DETERMINE LOCATION WHERE HYDROSTATIC DEWATERING STRUCTURE (DS.2) IS TO BE LOCATED.	
3. CONTRACTOR SHALL BE REQUIRED TO KEEP ROADS WHERE CONSTRUCTION SPREAD WILL ENTER AND EXIT PROJECT CORRIDOR CLEAN OF CONSTRUCTION RELATED DEBRIS AT ALL TIMES.	
4. ALL WATERBODY CROSSINGS TO BE INSTALLED USING THE FOLLOWING METHODS: DRY OPEN CUT METHOD (DAM & PUMP OR FLUME) OR HORIZONTAL DIRECTIONAL DRILLING (HDD).	
5. TREE LINE DATA IS SUBJECT TO CHANGE BASED ON POTENTIAL PRE-CONSTRUCTION SURVEYS.	

SOIL LEGEND	
KemB	KEYPORT SANDY LOAM. 2 TO 5 PERCENT SLOPES
UdcB	UDORTHERTS, CLAYEY SUBSTRATUM. 0 TO 8 PERCENT SLOPES

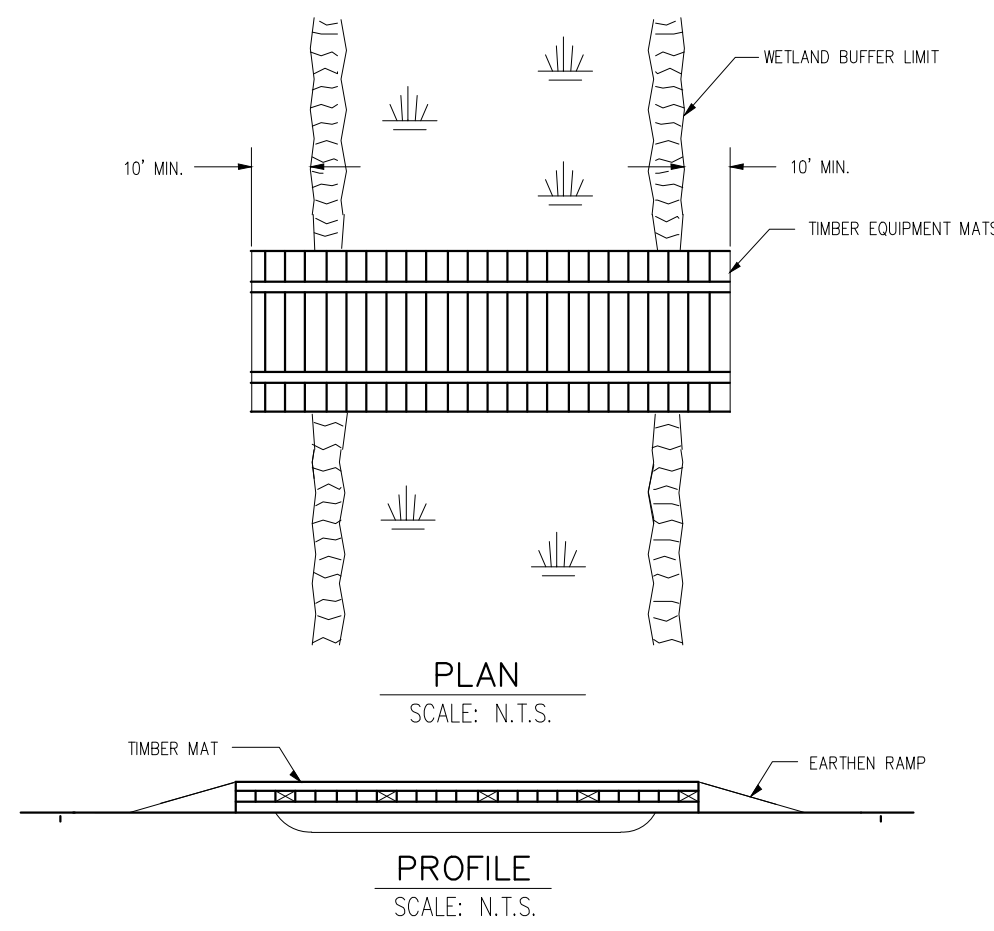
EROSION CONTROL TYPICAL LAYOUT	
LIMITS OF DISTURBANCE	
1. UNLESS NOTED OTHERWISE, ALL SAFETY FENCES, SEDIMENT BARRIERS AND/OR REINFORCED SEDIMENT SHALL BE LOCATED ON THE LIMITS OF DISTURBANCE	

KEVIN MCKEON, P.E.		REVISIONS				
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0	06/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION & SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 PROPOSED 26" MADISON LOOP  
 3.43 MI. - M.P. 8.57 TO M.P. 12.00  
 MIDDLESEX COUNTY, NEW JERSEY

DRAWN BY: ERL DATE: 06/15/17 ISSUED FOR BID: TBD SCALE:  
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 APPROVED BY: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-28-D SHEET 08A  
 W.O. 60515775 OF 21





- NOTES:**
1. PERIODICALLY CHECK INSTALLATION AND REMOVE BUILD-UP OF SEDIMENT OR DEBRIS.
  2. MATERIALS PLACED IN WETLANDS SHALL BE COMPLETELY REMOVED DURING FINAL CLEAN-UP. REMOVAL OF THIS STRUCTURE IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.
  3. IF A WATERBODY IS LOCATED WITHIN A WETLAND SYSTEM, EXTEND TIMBER EQUIPMENT MATS TO THE BRIDGE EQUIPMENT CROSSING (BEC) USED TO CROSS THE WATERBODY IN ORDER TO ALLOW FOR CONTINUOUS TIMBER EQUIPMENT MAT COVERAGE THROUGH THE WETLAND AND WATERBODY AREA.
  4. USE ADDITIONAL TIMBER MAT LAYERS TO RAISE CROSSING ABOVE GRADE WHERE POOR SOIL CONDITIONS EXIST.
  5. TIMBER EQUIPMENT MATS SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE OF THE WETLAND BOUNDARIES.
  6. INSTALL EARTHEN RAMP APPROACHES TO TIMBER EQUIPMENT MATS. EARTHEN RAMPS TO BE CONSTRUCTED OF UPLAND MATERIAL, TOP SOIL SHALL NOT BE USED TO CONSTRUCT EARTHEN RAMPS.

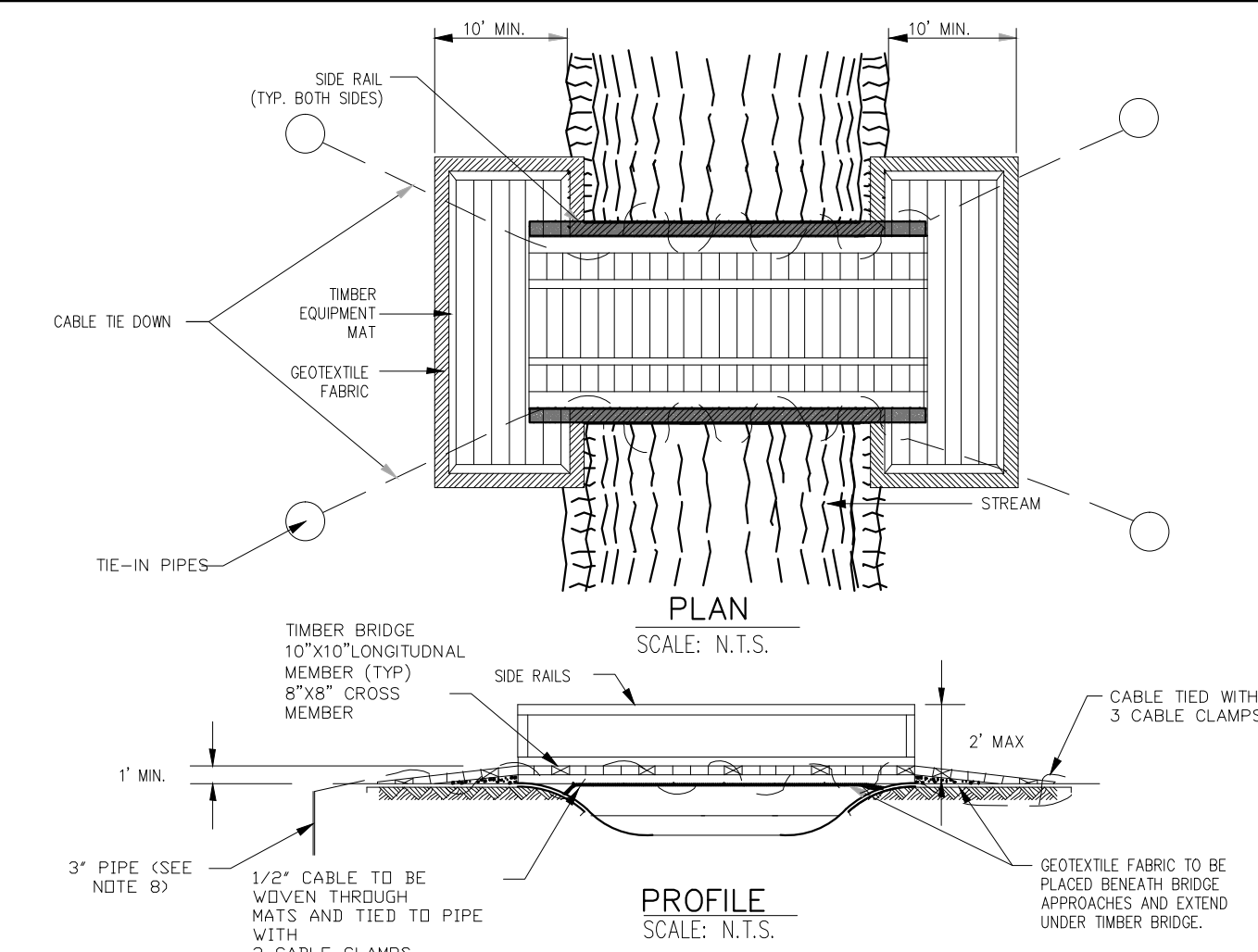
**WETLAND EQUIPMENT CROSSING** (WEC)  
TEMPORARY EROSION CONTROL MEASURE

NEW JERSEY

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL

(WEC) WETLAND EQUIPMENT CROSSING



- NOTES:**
1. MATERIALS PLACED ALONG STREAM CHANNEL SHALL BE COMPLETELY REMOVED DURING FINAL CLEAN-UP. REMOVAL OF THIS STRUCTURE IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.
  2. PERIODICALLY CHECK BRIDGE INSTALLATION AND REMOVE BUILD-UP OF SEDIMENT OR DEBRIS ON BRIDGE.
  3. BRIDGE APPROACHES SHALL BE TIMBER EQUIPMENT MATS.
  4. SIDE RAILS SHALL BE INSTALLED ON BOTH SIDES OF THE BRIDGE EQUIPMENT CROSSING IN ORDER TO PREVENT SEDIMENT FROM ENTERING THE WATERBODY. SIDE RAILS TO BE CONSTRUCTED OF PLYWOOD NAILED TO THE OUTER EDGES OF THE TIMBER EQUIPMENT MATS.
  5. TIMBER EQUIPMENT MATS SHALL EXTEND A MINIMUM OF 10 FEET OUTSIDE OF THE WATERBODY OR WETLAND BOUNDARIES.
  6. THE STRUCTURE SHALL BE LARGE ENOUGH TO CONVEY FLOW EXPECTED FROM A 2-YEAR FREQUENCY, 24-HOUR DURATION STORM WITHOUT APPRECIABLY ALTERING THE STREAM FLOW CHARACTERISTICS.
  7. TIMBER BRIDGES SHALL BE ADEQUATELY ANCHORED AT BOTH ENDS.
  8. 3" PIPE TO BE DRIVEN INTO THE GROUND TO MINIMUM 1' BELOW GRADE TO ASSIGNED DEPTH OR REFUSAL.

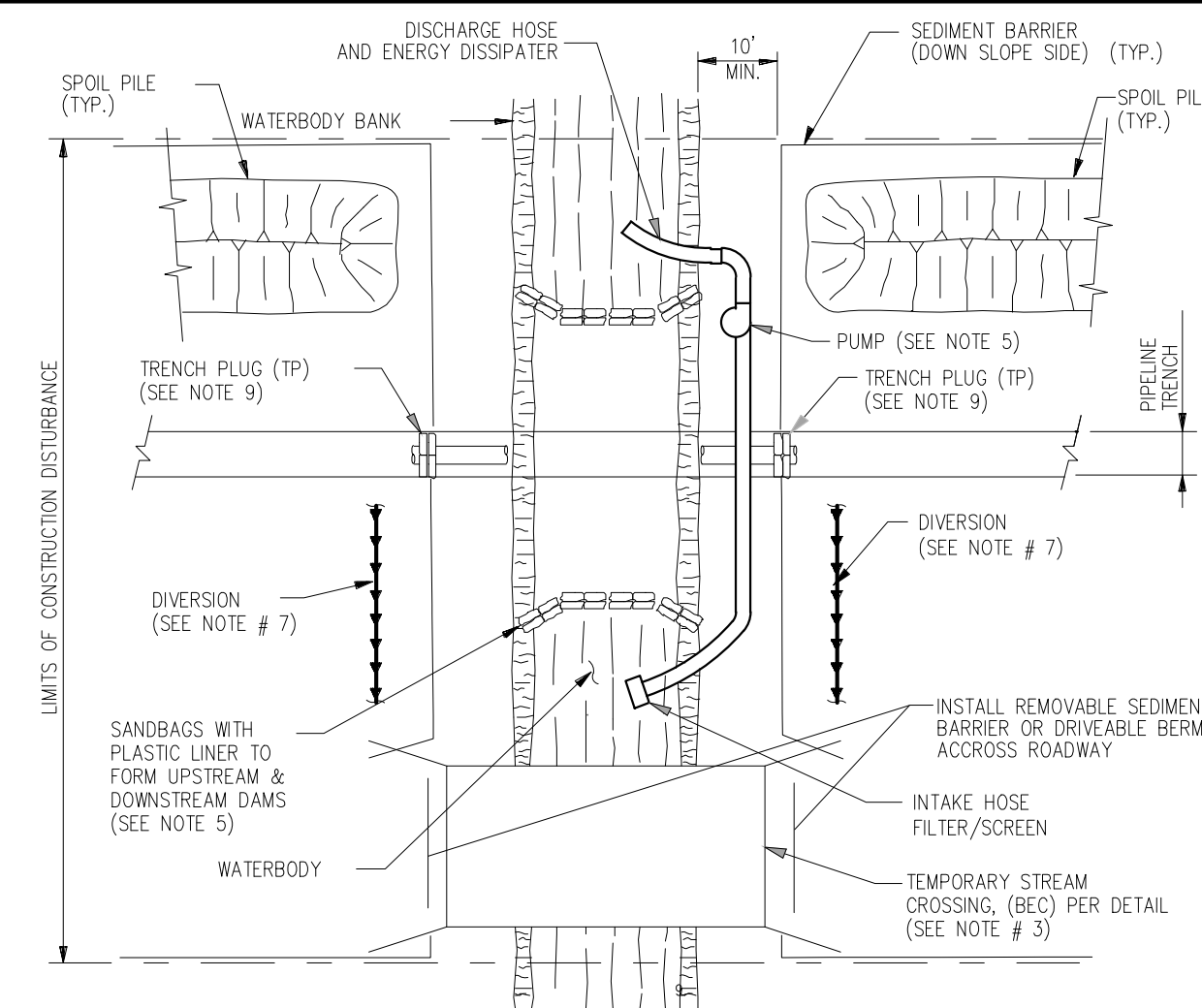
**BRIDGE EQUIPMENT CROSSING** (BEC)  
TEMPORARY EROSION CONTROL MEASURE

NEW JERSEY

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1	12/11/14	SMR	REVISED PER NJDEP REVIEW			

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL

(BEC) BRIDGE EQUIPMENT CROSSING



- NOTES:**
1. SEDIMENT BARRIERS SHALL BE INSTALLED AS DEPICTED AND ALONG DOWN GRADIENT SIDES OF WORK AREAS AND STAGING AREAS SUCH THAT NO HEAVY SILT LADEN WATER ENTERS THE WATERBODY OR LEAVES THE CONSTRUCTION RIGHT-OF-WAY.
  2. HARD DITCH PLUGS MUST REMAIN IN PLACE AT CONVENIENT LOCATIONS TO SEPARATE MAINLINE DITCH FROM THE WATERBODY CROSSING UNTIL THE WATERBODY CROSSING IS INSTALLED AND BACKFILLED.
  3. EQUIPMENT OPERATING IN THE WATERBODY SHALL BE LIMITED TO THAT NEEDED TO PERFORM CONSTRUCTION. IF OTHER TYPES OF EQUIPMENT MUST CROSS THE WATERBODY, CONTRACTOR SHALL PROVIDE AND USE A TEMPORARY STREAM CROSSING (BEC).
  4. STAGING AREA(S) FOR WATERBODY CROSSING(S), WHEN REQUIRED, SHALL BE LOCATED AT LEAST 50 FEET FROM WATER'S EDGE AND SHALL BE OF A MINIMUM SIZE NEEDED FOR CONVENIENT PREPARATION.
  5. IMPLEMENTATION OF THE DAM-AND-PUMP CROSSING METHOD MUST MEET THE FOLLOWING PERFORMANCE CRITERIA:
    - (A) USE SUFFICIENT PUMPS, INCLUDING ON-SITE BACKUP PUMPS, TO MAINTAIN DOWNSTREAM FLOWS.
    - (B) CONSTRUCT DAMS WITH MATERIALS THAT PREVENT SEDIMENT AND OTHER POLLUTANTS FROM ENTERING THE WATERBODY (E.G. SANDBAGS OR CLEAN GRAVEL WITH PLASTIC LINER).
    - (C) SCREEN PUMP INTAKES.
    - (D) PREVENT STREAMBED SCOUR AT PUMP DISCHARGE.
    - (E) MONITOR THE DAM AND PUMPS TO ENSURE PROPER OPERATION THROUGHOUT THE WATERBODY CROSSING.
  6. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED DAILY AND REPAIRED IF NECESSARY.
  7. INSTALL DIVERSION TRENCHES AT THE BASE OF ALL SLOPES ADJACENT TO THE WATERBODY.
  8. CHEMICALS, FUELS AND LUBRICATING OILS SHALL NOT BE STORED AND EQUIPMENT SHALL NOT BE REFUELED WITHIN 100 FEET OF THE WATERBODY.
  9. INSTALL TRENCH PLUGS ON BOTH SIDES OF THE WATERBODY TO PREVENT DIVERSION OF WATER INTO UPLAND PORTIONS OF THE PIPELINE TRENCH AND TO KEEP ANY ACCUMULATED TRENCH WATER OUT OF THE WATERBODY.
  10. CONTRACTOR SHALL POSTPONE GRADING OF RIGHT-OF-WAY ADJACENT TO WATERBODY UNTIL STAGING AREA IS PREPARED AND WORK IN THE WATERBODY IS READY TO COMMENCE.
  11. PUMP INTAKE SHALL BE MAINTAINED TO A SUFFICIENT DISTANCE FROM BOTTOM TO PREVENT SEDIMENT FROM ENTERING THE SYSTEM.
  12. DO NOT EXCAVATE A SUMP FOR THE PUMP INTAKE.

**DAM AND PUMP CROSSING** (DPX)  
TEMPORARY EROSION CONTROL MEASURE

NEW JERSEY

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
1	10/28/11	TPF	ADDED NOTES			

TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL

(DPX) DAM AND PUMP CROSSING

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Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\400-Technical\400-CAD\E&S\03 - Madison Detail Sheets.dwg



**AECOM**  
625 WEST RIDGE PIKE, SUITE E-100  
COVINGTON, PA 15426  
(610) 832-3500

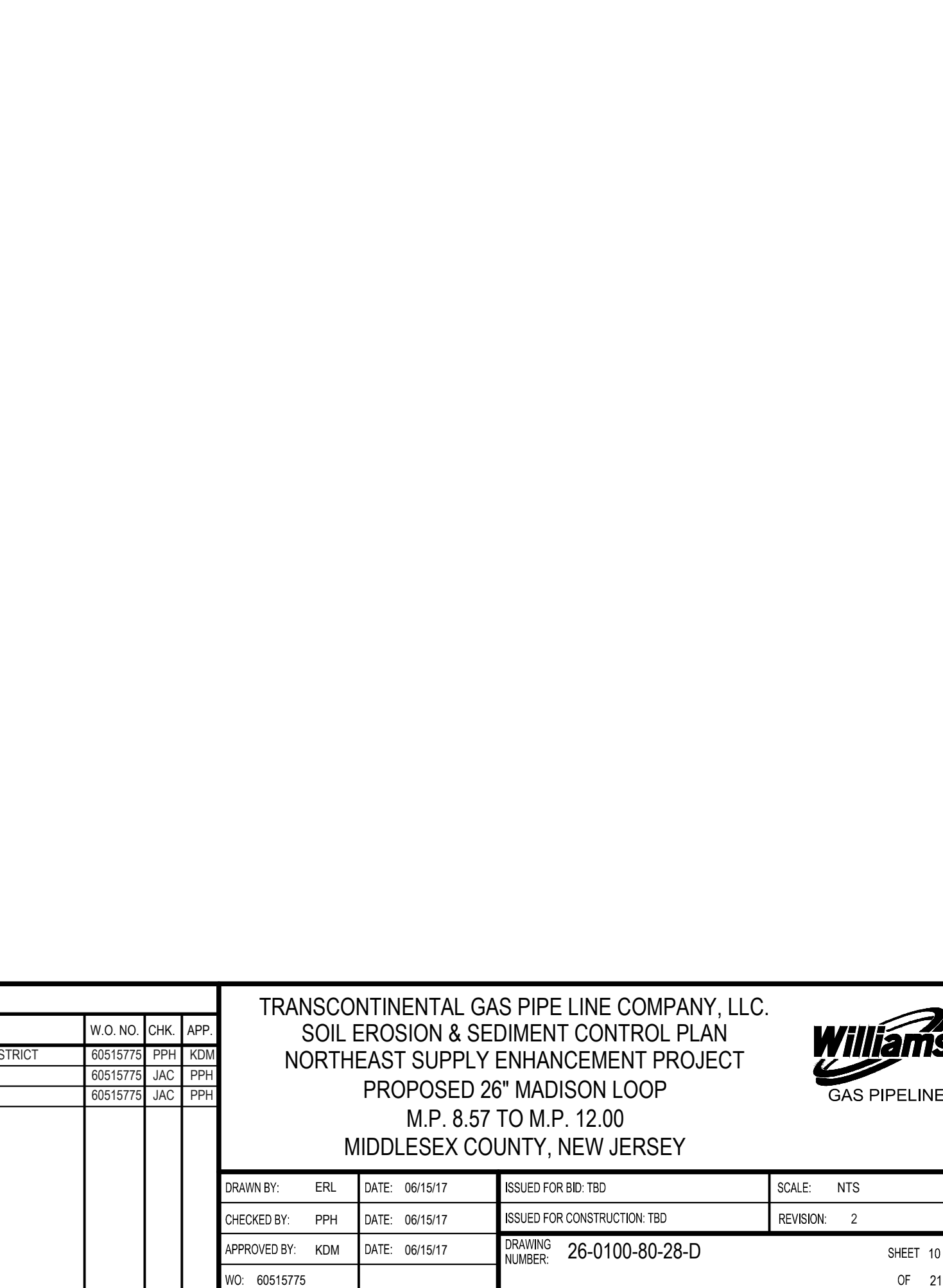
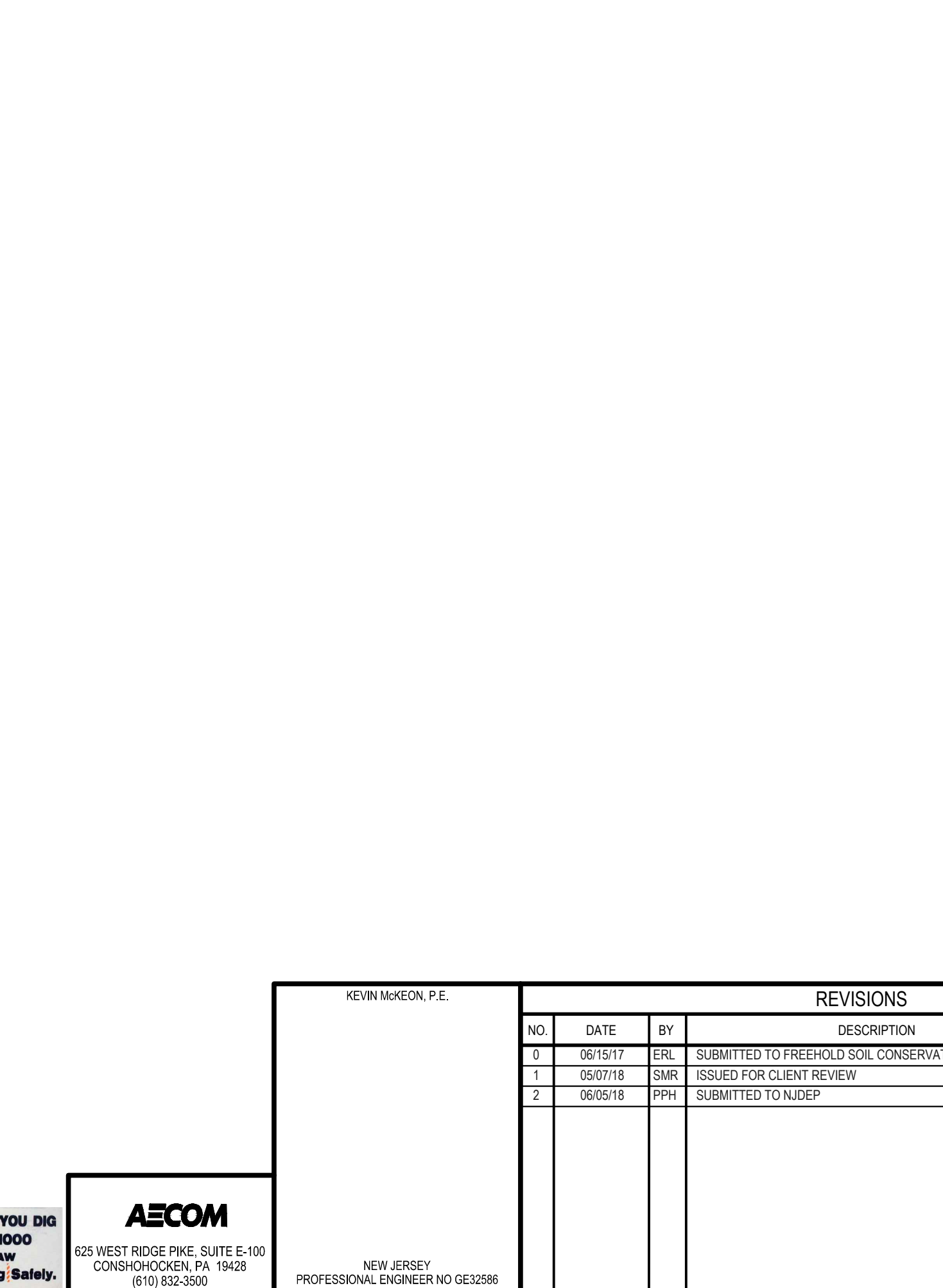
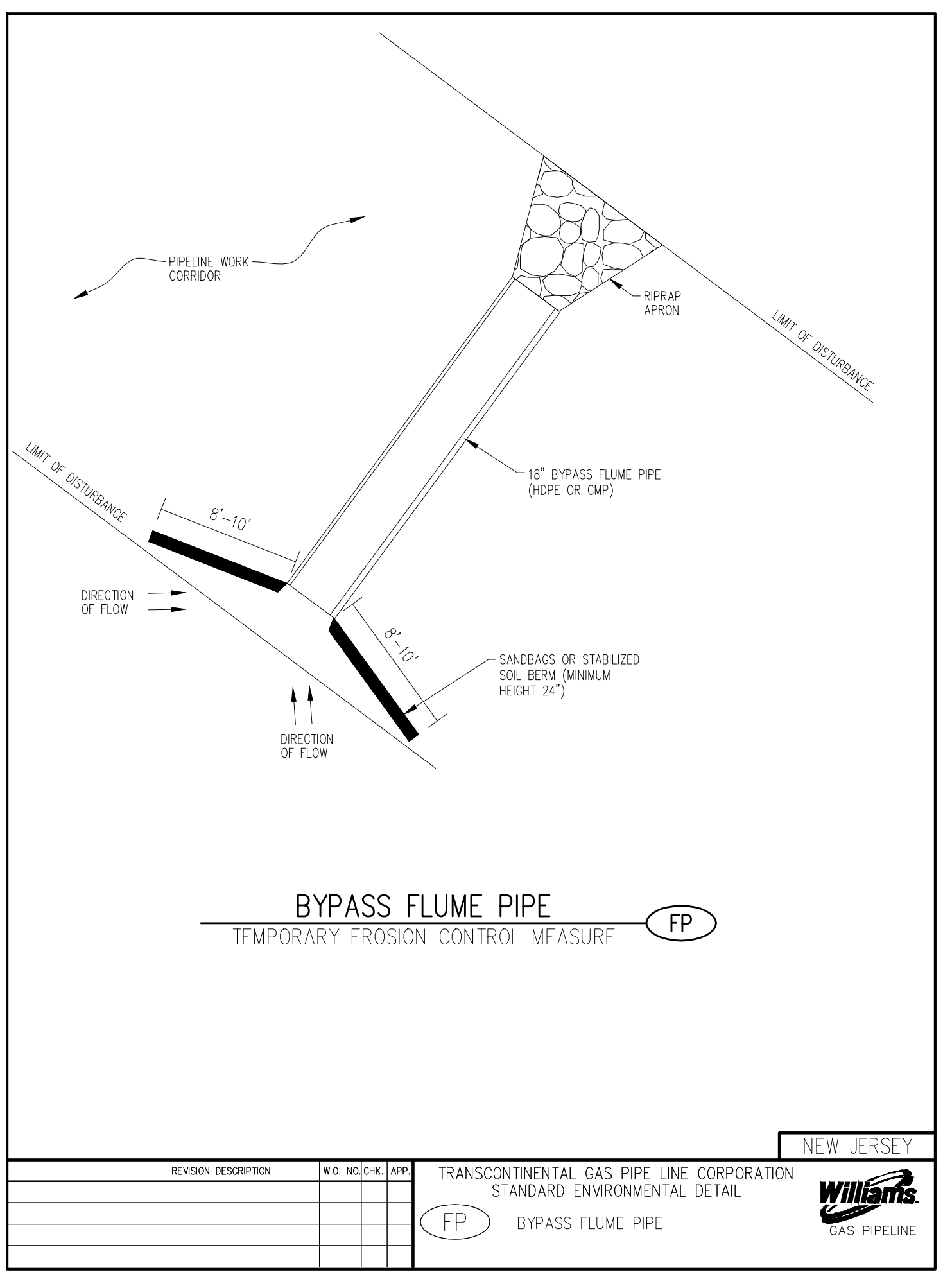
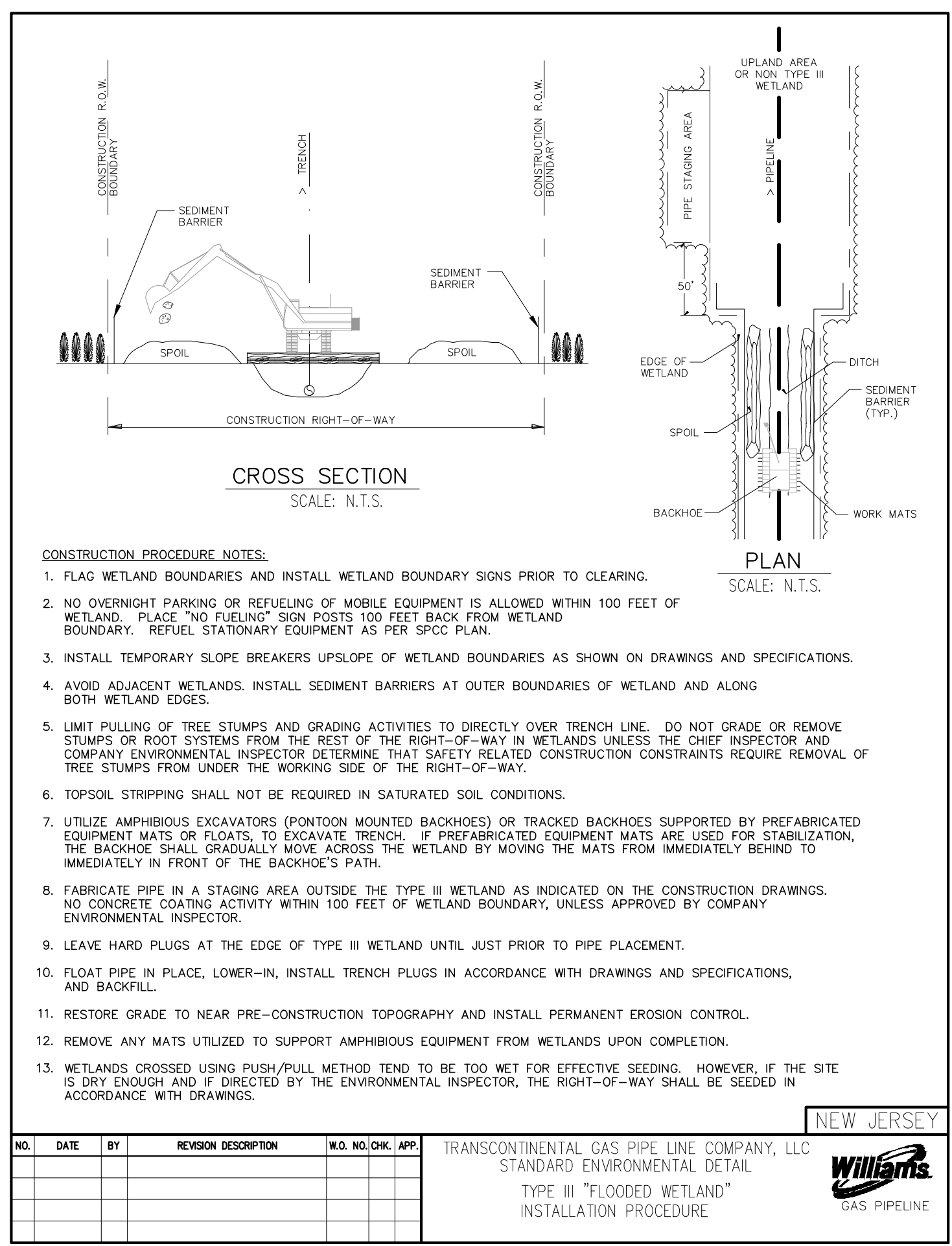
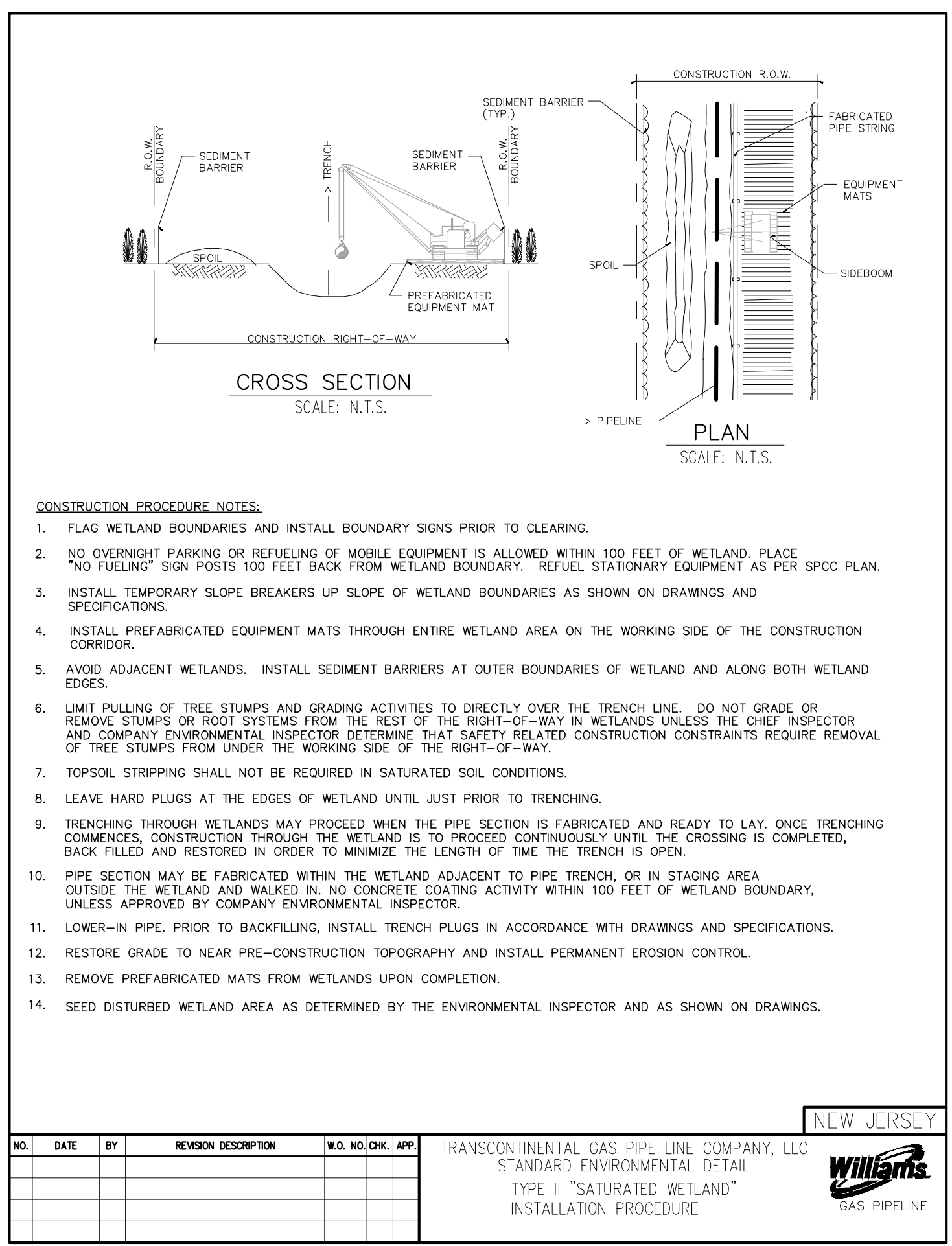
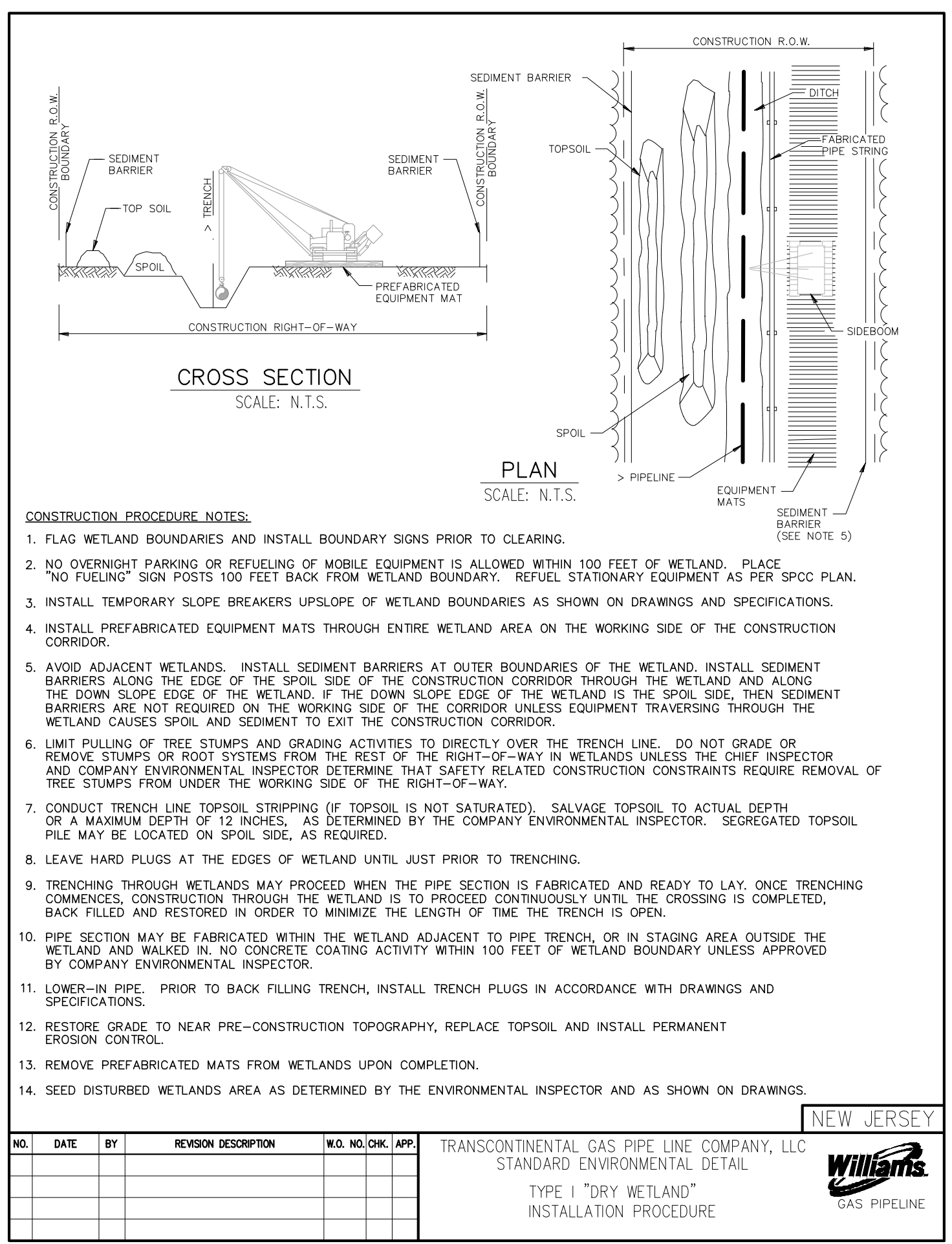
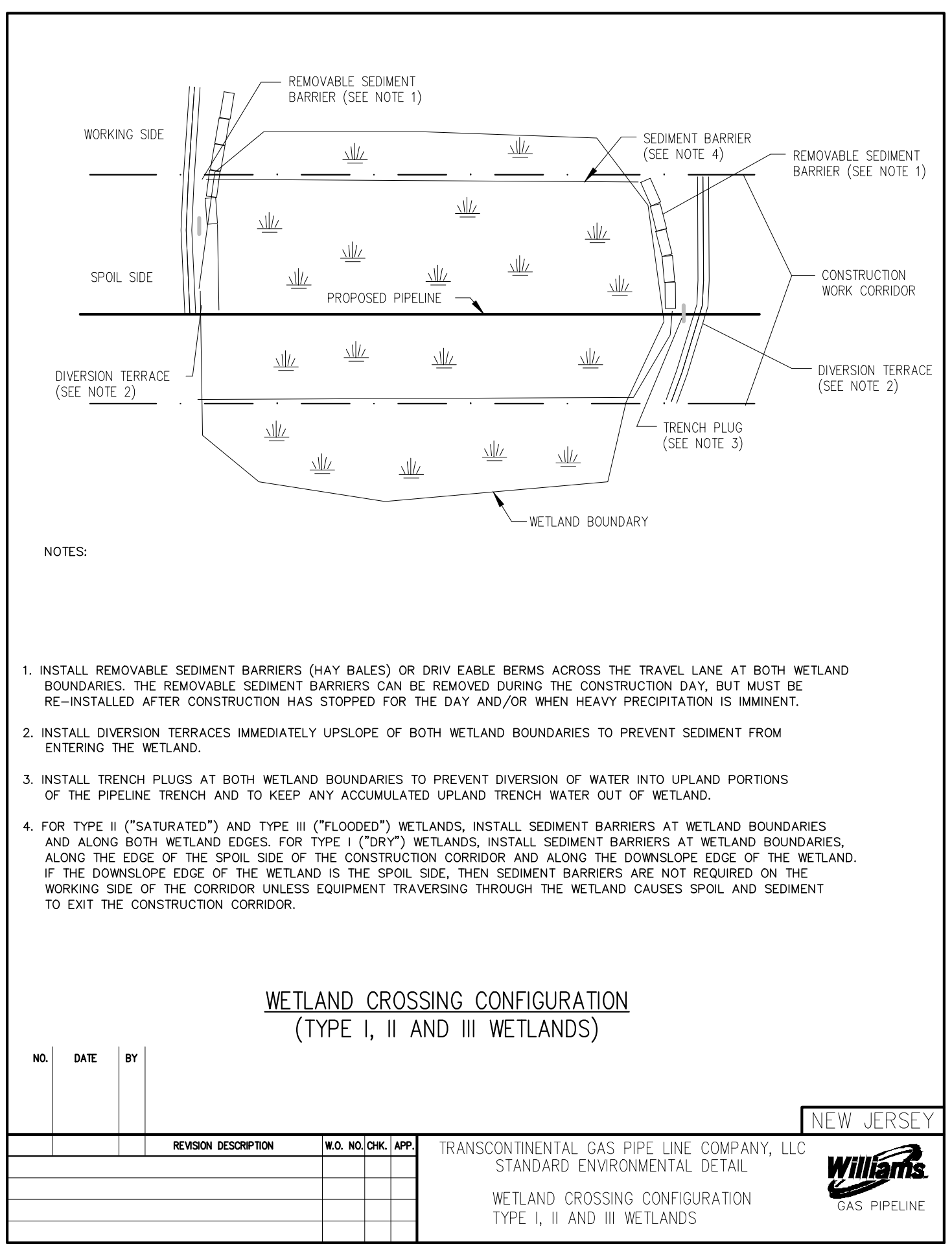
KEVIN MCKEON, P.E.  
NEW JERSEY  
PROFESSIONAL ENGINEER NO GE23586

REVISIONS						
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CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 09
W.O. 60515775			OF 21





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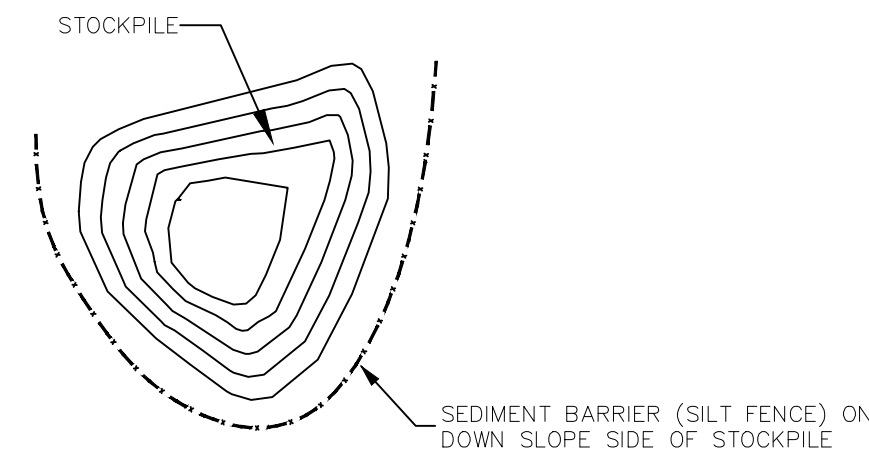
KEVIN MCKEON, P.E.  
NEW JERSEY  
PROFESSIONAL ENGINEER NO G625286

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NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION & SEDIMENT CONTROL PLAN  
NORTHEAST SUPPLY ENHANCEMENT PROJECT  
PROPOSED 26" MADISON LOOP  
M.P. 8.57 TO M.P. 12.00  
MIDDLESEX COUNTY, NEW JERSEY

Williams GAS PIPELINE

DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR BID: TBD	SCALE: NTS
CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 10 OF 21
W.O. 60515775			



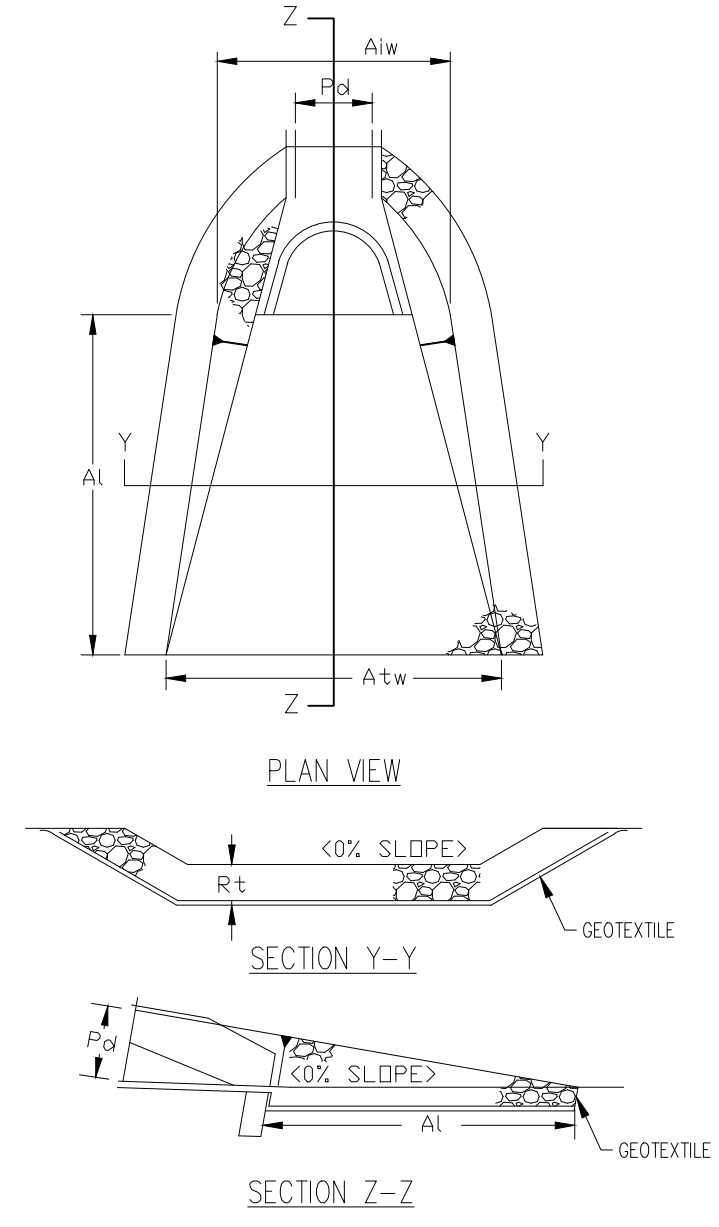
- NOTES:**
1. MAXIMUM STOCKPILE HEIGHT IS 35 FEET.
  2. STOCKPILE SLOPES MUST BE NO STEEPER THAN 2H:1V.
  3. LOCATION OF STOCKPILE TO BE DETERMINED AT TIME OF CONSTRUCTION. STOCKPILES WILL BE STABILIZED IN ACCORDANCE WITH SOIL EROSION AND SEDIMENT CONTROL STANDARDS OF NEW JERSEY.

**TYPICAL TOPSOIL STOCKPILE**  
TEMPORARY EROSION CONTROL MEASURE

NO.	DATE	BY	REVISION DESCRIPTION	NO.	NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL

TYPICAL TOPSOIL STOCKPILE



RIPRAP		APRON		
SIZE (R-...)	THICK. RT (IN)	LENGTH Al (FT)	INITIAL WIDTH Atw (FT)	TERMINAL WIDTH At (FT)
R-4	18	12	4.5	17

**RIPRAP APRON**  
TEMPORARY EROSION CONTROL MEASURE

**RIPRAP GRADATION TABLE**

NATIONAL STONE ASSOCIATION NUMBER	SIZE OF ROCKS (INCHES)			MIN. THICKNESS OF RIPRAP LAYER (IN.)	TOE (FEET)
	MAXIMUM	450 AVERAGE *	MINIMUM **		
R-1	1 1/2	3/4	NO. 8	2	1
R-2	3	1 1/2	1	4	1.25
R-3	6	3	2	9	1.5
R-4	12	6	3	18	2.5
R-5	18	9	4	27	4
R-6	24	12	6	36	4
R-7	30	18	12	45	5
R-8	42	24	15	63	6

- \* THE "AVERAGE SIZE", OR 450, IS DEFINED AS A SIZE THAT IS EXCEEDED BY AT LEAST 50% OF THE TOTAL WEIGHT SHIPPED. (I.E. 50% OF THE TONNAGE SHIPPED CONSISTS OF PIECES LARGER THAN THE "AVERAGE SIZE" SHOWN IN CHART.)
- \*\* PIECES SMALLER THAN THE "MINIMUM SIZE" SHOWN SHALL NOT EXCEED 15% OF THE TONNAGE SHIPPED.

- MATERIAL NOTES:**
1. ROCK UTILIZED FOR RIPRAP SHALL CONSIST OF SOUND, DURABLE ROCK, INSOLUBLE IN WATER, AND RESISTANT TO WEATHERING.
  2. ALL MATERIAL SHALL BE FREE OF STRUCTURAL DEFECTS, SHALE SEAMS AND ORGANIC MATTER.
  3. INDIVIDUAL PIECES SHOULD BE SHARPLY ANGULAR, BLOCK SHAPED AND HAVE A MINIMUM SPECIFIC GRAVITY OF 2.5.
  4. NO PIECE SHALL HAVE A LENGTH EXCEEDING THREE (3) TIMES ITS WIDTH OR DEPTH.
  5. EACH LOAD OF ROCK SHALL BE OF WELL-GRADED MIXTURE. A WELL-GRADED MIXTURE, AS USED HEREIN, IS DEFINED AS A MIXTURE COMPOSED PRIMARILY OF LARGER STONE, BUT WITH A SUFFICIENT MIXTURE OF SMALLER SIZES TO FILL THE VOIDS.
  6. MATERIAL SHALL MEET NSA SPECIFICATIONS - SEE TABLE.
  7. IF STREAM WIDTH IS EQUAL TO OR LESS THAN 2 TIMES THE TOE WIDTH, RIPRAP SHALL BE PLACED ACROSS THE ENTIRE STREAM WIDTH.

**CONSTRUCTION:**  
RIPRAP SHALL BE PLACED TO THE FULL COURSE THICKNESS IN ONE CONTINUOUS OPERATION. OPERATIONS WHICH CAUSE SEGREGATION OF THE MATERIALS SHALL NOT BE PERMITTED. INDIVIDUAL ROCKS MAY BE REARRANGED, AND THE VOIDS FILLED WITH HAND PLACED SMALLER ROCK IN ORDER TO ACHIEVE THE DESIRED UNIFORM ARMOR.

NO.	DATE	BY	REVISION DESCRIPTION	NO.	NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL

RIPRAP APRON

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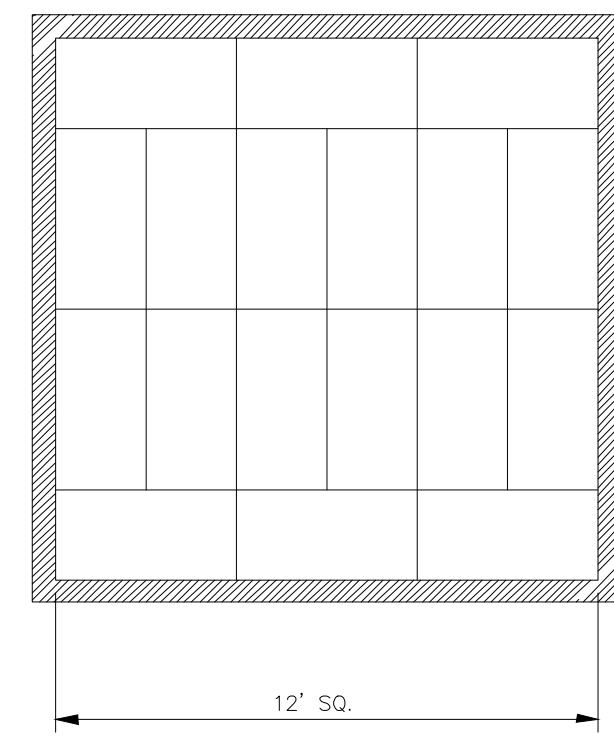
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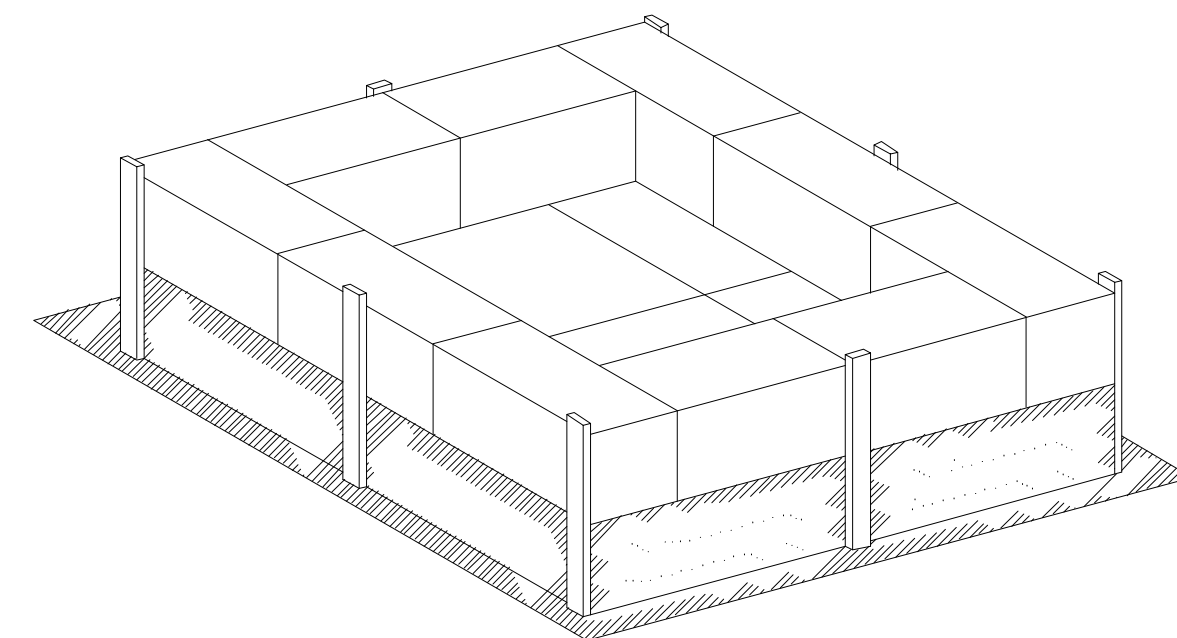
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
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NORTHEAST SUPPLY ENHANCEMENT PROJECT  
PROPOSED 26" MADISON LOOP  
M.P. 8.57 TO M.P. 12.00  
MIDDLESEX COUNTY, NEW JERSEY

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NO: 60515775			

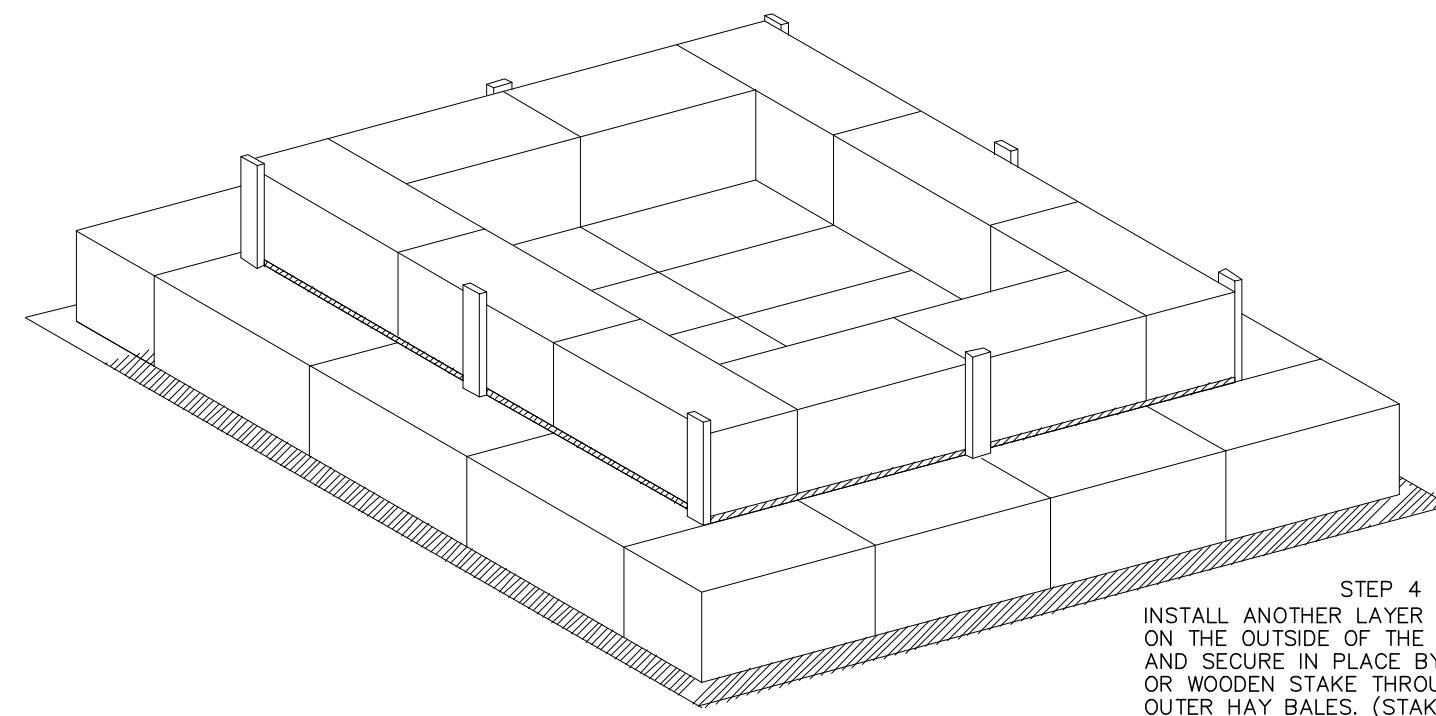
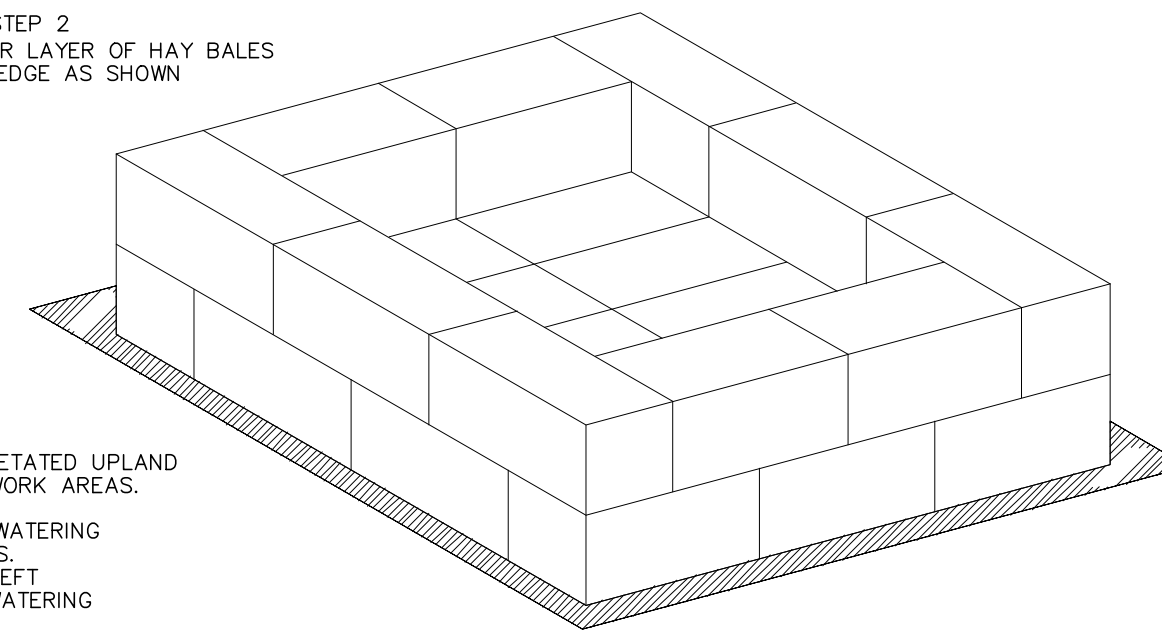


STEP 1  
ARRANGE HAY BALES OVER GEOTEXTILE FABRIC ON LEVEL LAND TIGHTLY PACKED AS SHOWN TO COVER AN AREA APPROXIMATELY 12' x 12'



STEP 3  
INSTALL SEDIMENT BARRIER, IF REQUIRED BY COMPANY REPRESENTATIVE, AROUND ENTIRE HAY BALE STRUCTURE AS SHOWN

STEP 2  
INSTALL ANOTHER LAYER OF HAY BALES ON THE OUTER EDGE AS SHOWN



STEP 4  
INSTALL ANOTHER LAYER OF HAY BALES ON THE OUTSIDE OF THE SEDIMENT BARRIER AND SECURE IN PLACE BY DRIVING REBAR OR WOODEN STAKE THROUGH EACH OF THE OUTER HAY BALES. (STAKES NOT SHOWN FOR CLARITY PURPOSES)

DEWATERING STRUCTURE  
TEMPORARY EROSION CONTROL MEASURE (DS.1)

NOTES:

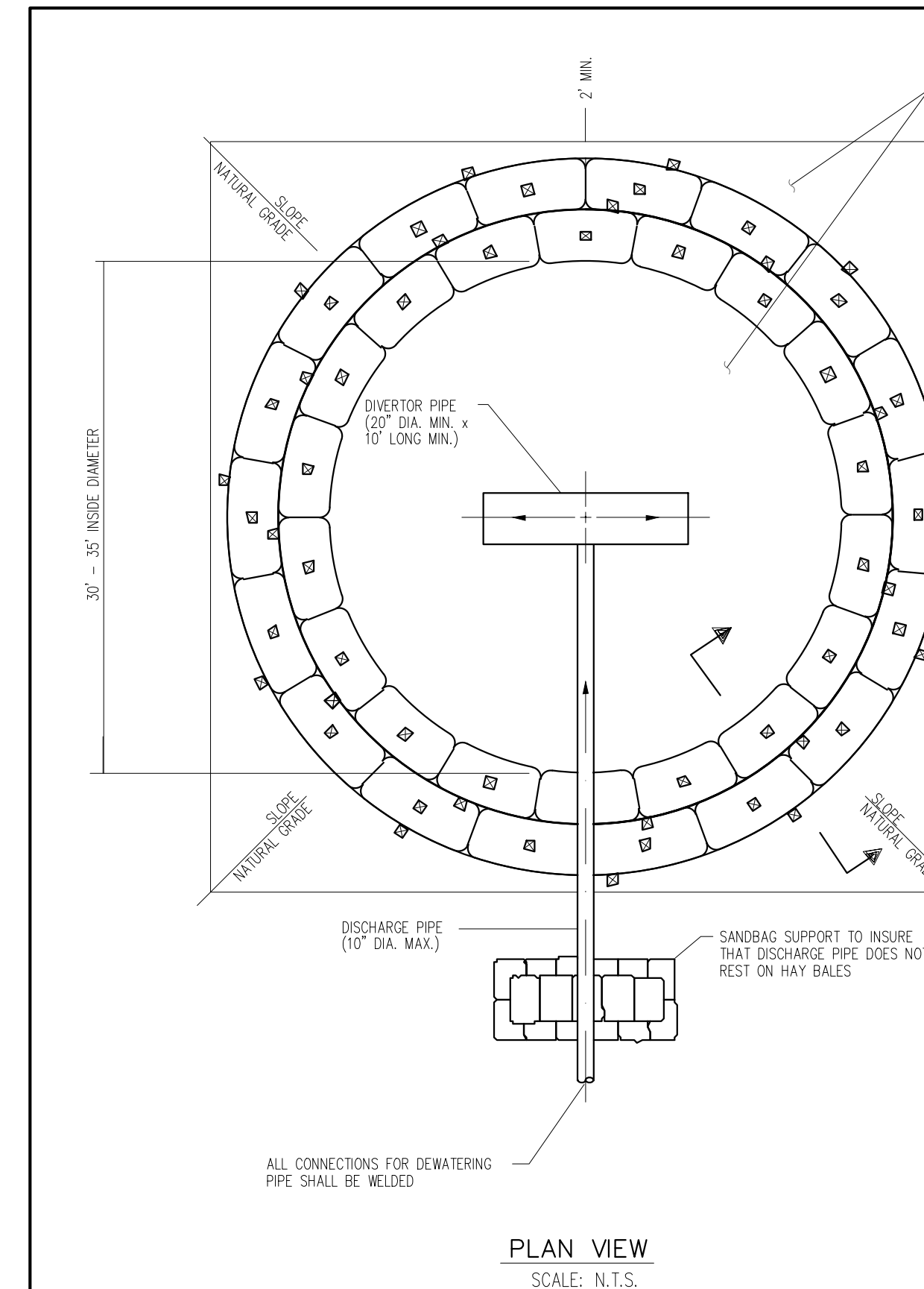
- WHERE POSSIBLE STRUCTURE SHALL BE PLACED ON A LEVEL, WELL VEGETATED UPLAND SITE SUCH THAT WATER WILL FLOW AWAY FROM STRUCTURE AND ANY WORK AREAS.
- CONTRACTOR SHALL PROPERLY REMOVE AND PROPERLY DISPOSE OF DEWATERING STRUCTURE IMMEDIATELY UPON COMPLETION OF DEWATERING OPERATIONS. UNDER NO CIRCUMSTANCES SHALL USED DEWATERING STRUCTURES BE LEFT IN PLACE FOR A PERIOD OF TIME GREATER THAN 48 HOURS AFTER DEWATERING OPERATIONS ARE COMPLETE.
- STRUCTURE SHOULD BE POSITIONED SUCH THAT WATER WILL NOT FLOW INTO ANY WETLANDS OR WATERBODIES.

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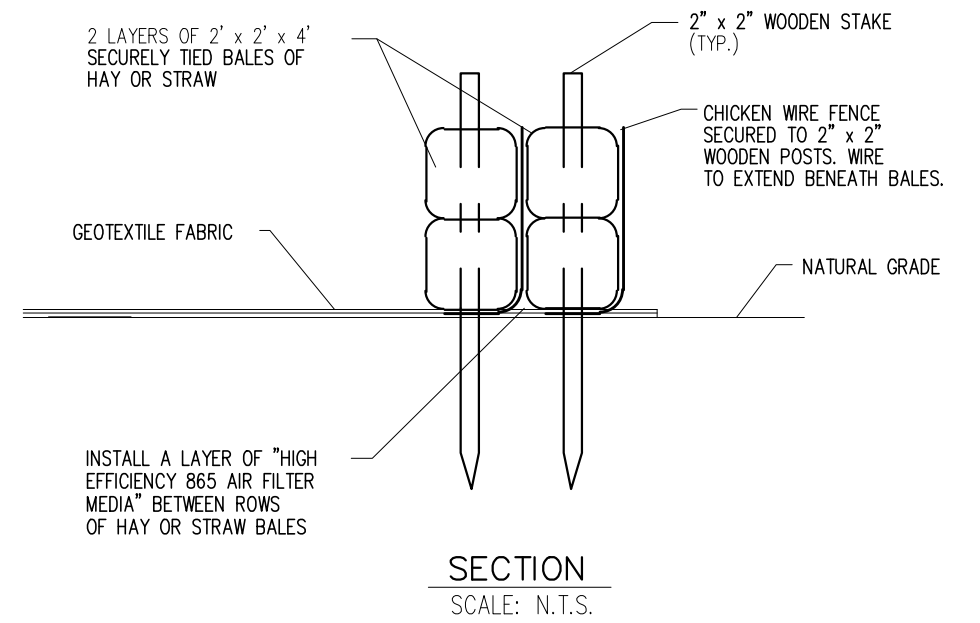
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL

(DS.1) DEWATERING STRUCTURE

NEW JERSEY  
Williams  
GAS PIPELINE



PLAN VIEW  
SCALE: N.T.S.



SECTION  
SCALE: N.T.S.

NOTE:

STAKES SECURING "HIGH EFFICIENCY 865 AIR FILTER MEDIA" AND CHICKEN WIRE FENCE ARE NOT SHOWN FOR CLARITY PURPOSES.

NOTES:

- STRUCTURE SHALL BE PLACED ON A LEVEL, WELL VEGETATED SITE SUCH THAT WATER WILL FLOW AWAY FROM STRUCTURE AND ANY WORK AREAS.
- FLOW RATES THROUGH DISCHARGE AND DIVERTOR PIPES SHALL BE SUCH THAT STRUCTURE WILL NOT OVERFLOW.
- WHERE CONDITIONS WARRANT A 30' x 30' RECTANGULAR STRUCTURE MAY BE SUBSTITUTED FOR THE CIRCULAR CONFIGURATION SHOWN.
- DIMENSIONS SHOWN ARE THE MINIMUM ACCEPTABLE VALUES AND MAY BE VARIED DEPENDING UPON SPECIFIC LOCATION.
- CONTRACTOR SHALL PROPERLY REMOVE AND DISPOSE OF DEWATERING STRUCTURE IMMEDIATELY UPON COMPLETION OF DEWATERING OPERATIONS. UNDER NO CIRCUMSTANCES SHALL USED DEWATERING STRUCTURES BE LEFT IN PLACE FOR A PERIOD OF TIME GREATER THAN 48 HOURS AFTER DEWATERING OPERATIONS ARE COMPLETE.
- "HIGH EFFICIENCY 865 AIR FILTER MEDIA" CAN BE PURCHASED FROM THE FOLLOWING:  
UNITED AIR FILTER COMPANY  
1000 WEST PALMER STREET  
CHARLOTTE, NORTH CAROLINA 28234  
(704) 534-5311

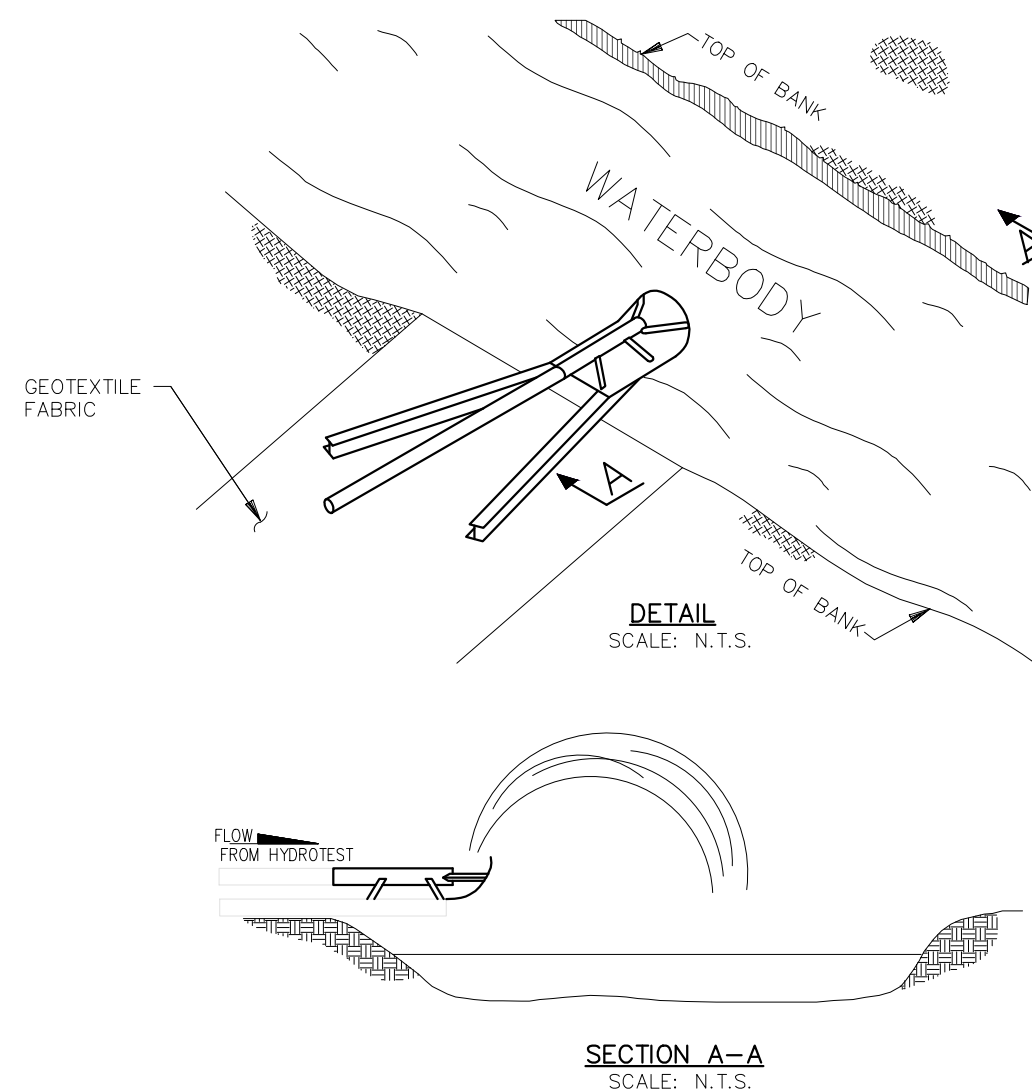
HYDROSTATIC DEWATERING STRUCTURE  
TEMPORARY EROSION CONTROL MEASURE (DS.2)

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL

(DS.2) HYDROSTATIC DEWATERING STRUCTURE

NEW JERSEY  
Williams  
GAS PIPELINE



SECTION A-A  
SCALE: N.T.S.

NOTES:

- CONTRACTOR TO POSITION SPLASH PLATE SUCH THAT THE DISCHARGE WATER SPLAYS OUT TOWARDS THE MIDDLE OF THE RECEIVING WATERBODY.
- SPLASH PLATE TO BE POSITIONED SUCH THAT NO SOIL EROSION OCCURS.
- CONTRACTOR SHALL INSTALL GEOTEXTILE FABRIC BENEATH THE SPLASH PLATE STRUCTURE TO PREVENT DISTURBANCE TO THE WATERBODY BANK.

SPLASH PLATE HYDROSTATIC DEWATERING STRUCTURE  
TEMPORARY EROSION CONTROL MEASURE (DS.4)

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
STANDARD ENVIRONMENTAL DETAIL

(DS.4) SPLASH PLATE HYDROSTATIC DEWATERING STRUCTURE

NEW JERSEY  
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GAS PIPELINE

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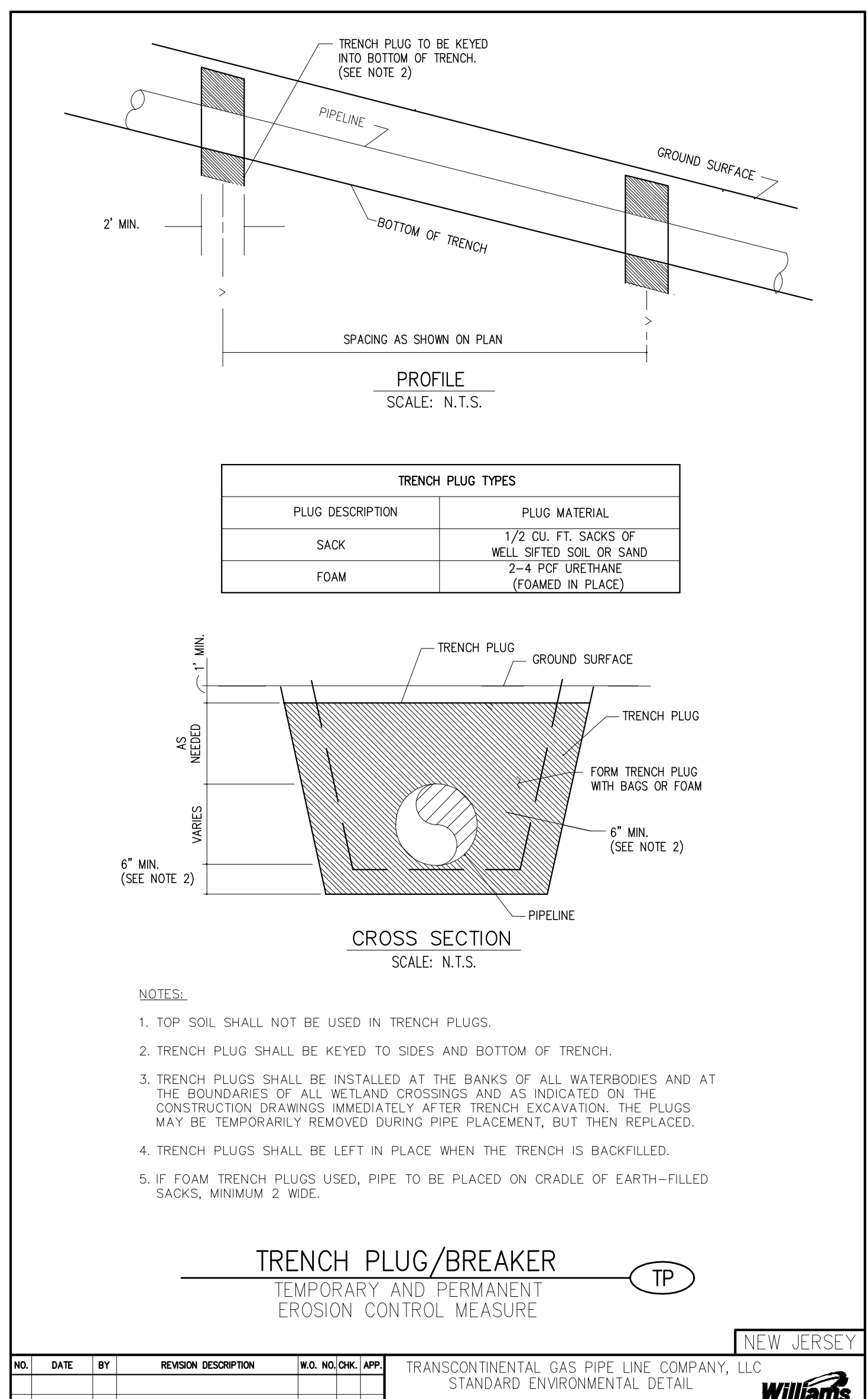
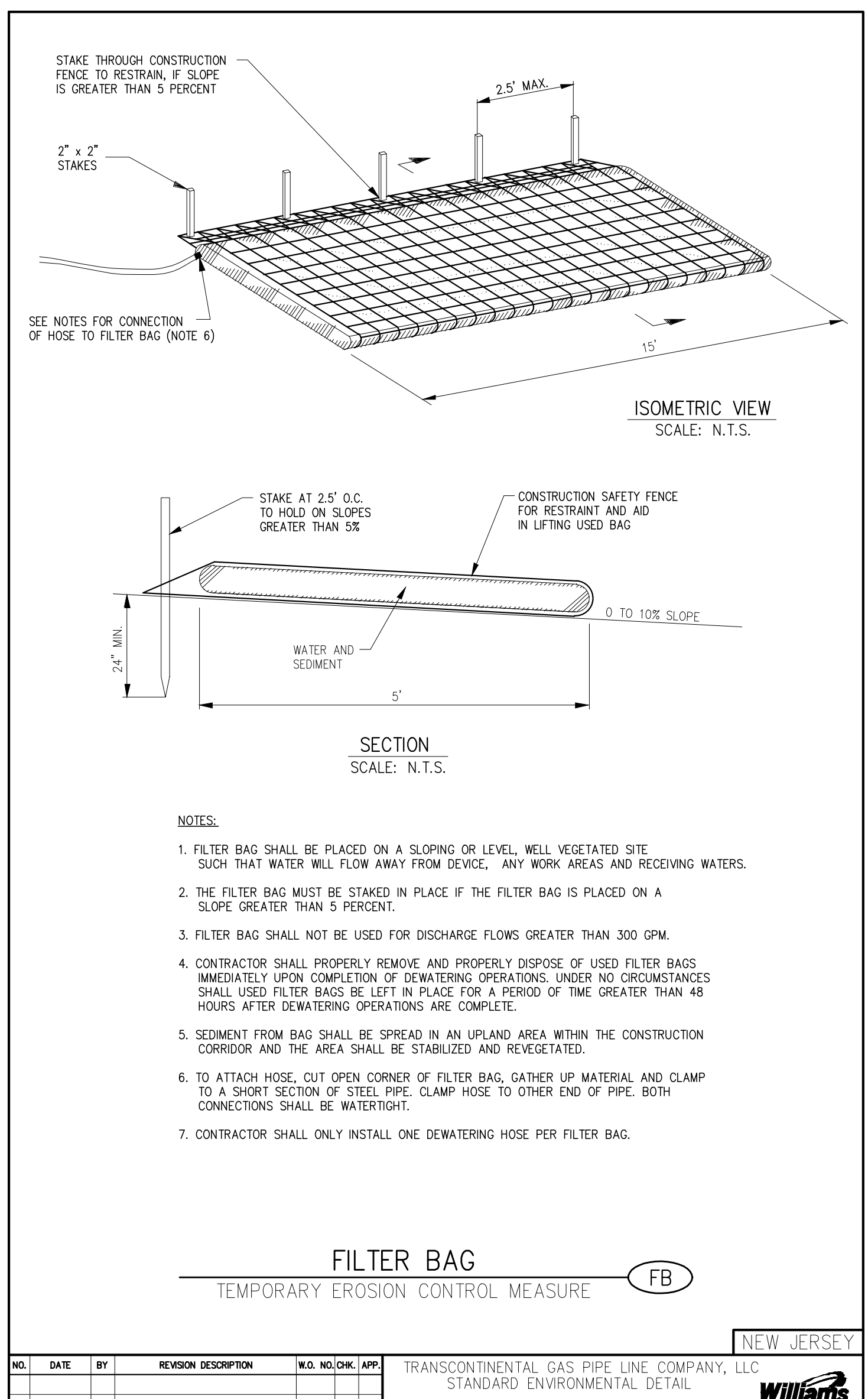
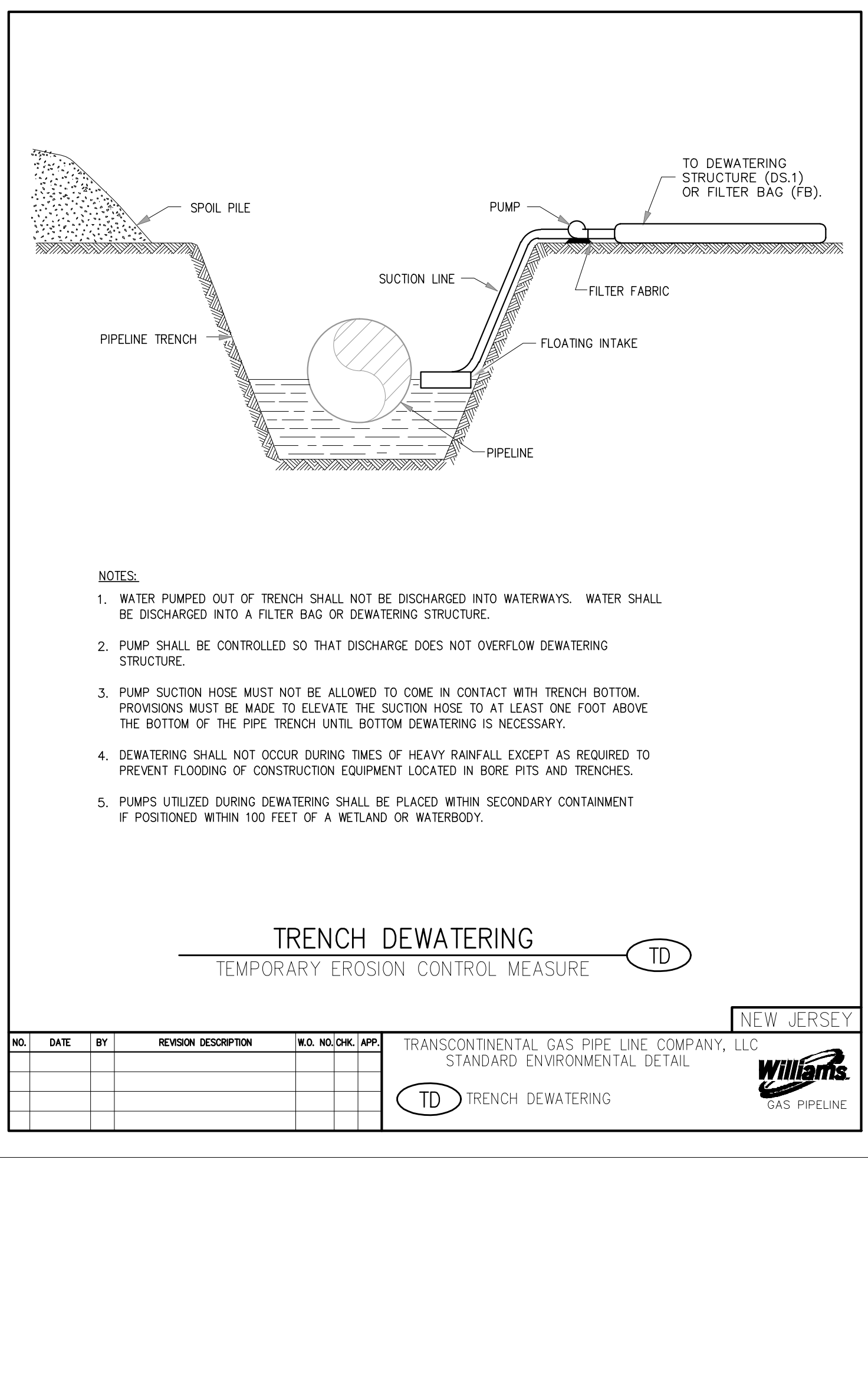
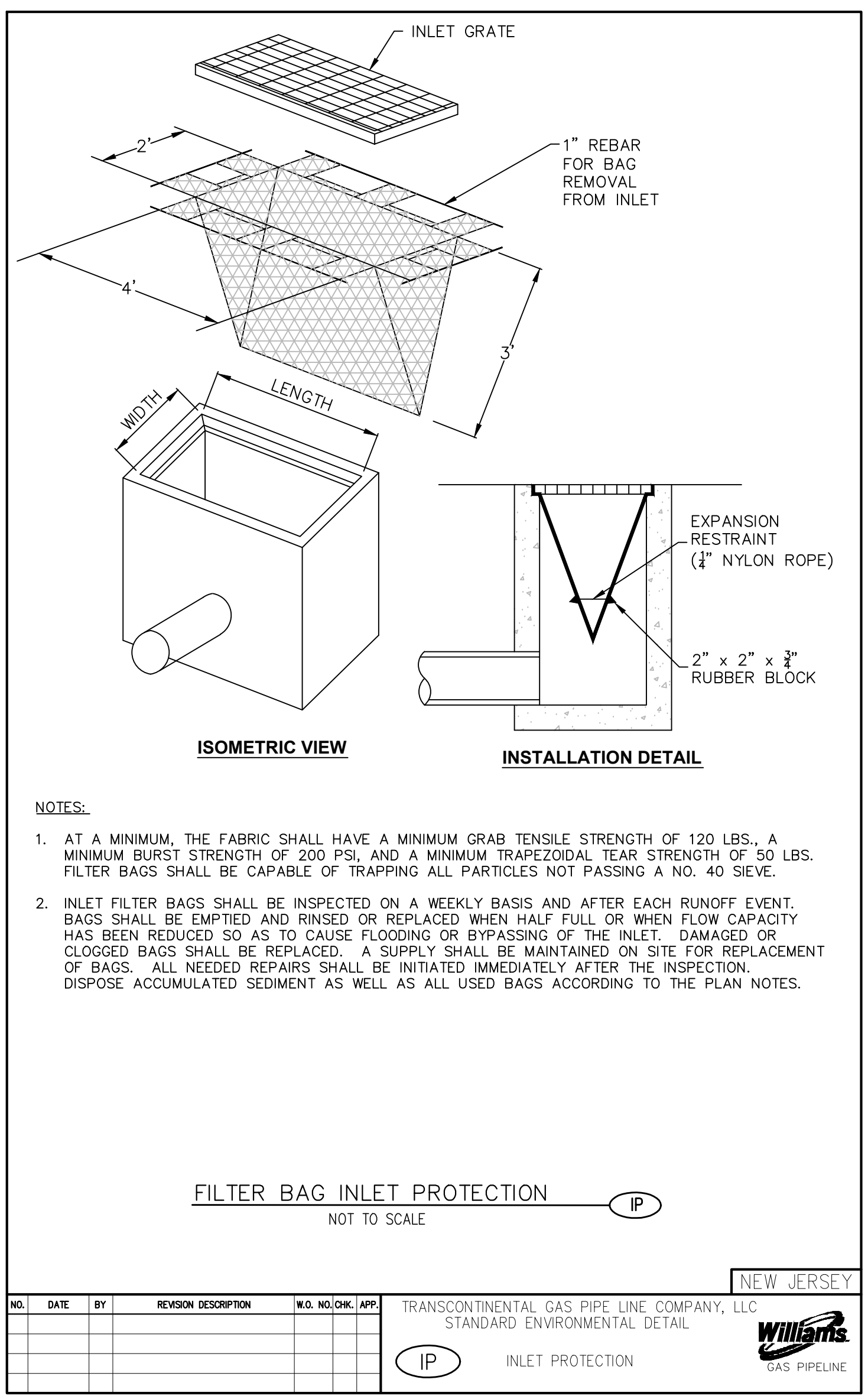
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
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NORTHEAST SUPPLY ENHANCEMENT PROJECT  
PROPOSED 26" MADISON LOOP  
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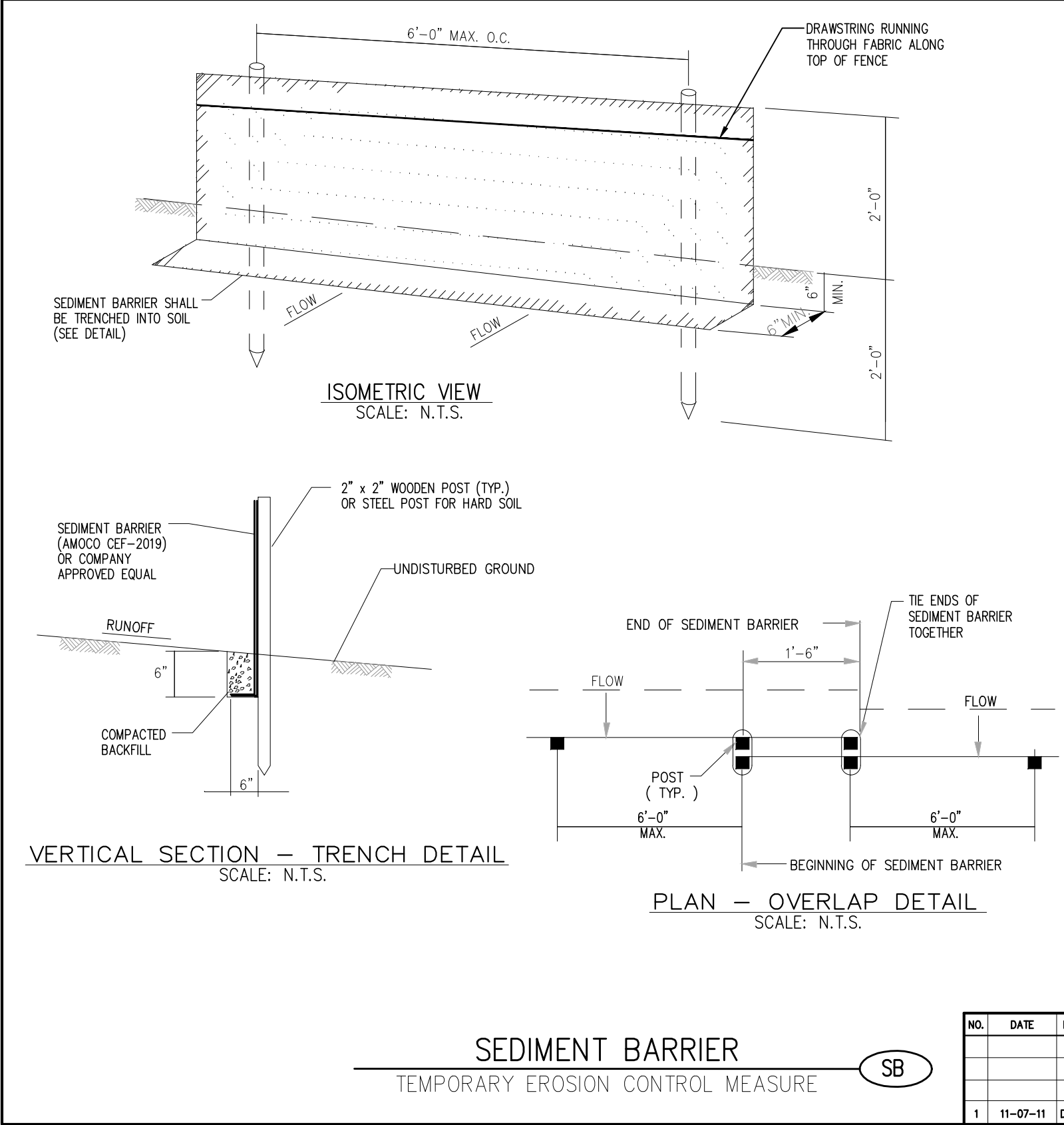
**Williams**  
GAS PIPELINE

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- NOTES:**
- SEDIMENT BARRIER SHALL BE INSTALLED TO FILTER SEDIMENT FROM SURFACE RUNOFF.
  - INSTALLATIONS SHALL BE PERIODICALLY CHECKED, THE SEDIMENT SHALL BE REMOVED WHEN IT REACHES 15" OR 1/2 OF THE HEIGHT OF SEDIMENT BARRIER.
  - SEDIMENT BARRIER SHALL BE LEFT IN PLACE UNTIL PERMANENT VEGETATIVE COVER IS ESTABLISHED.
  - SEDIMENT BARRIER SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT IT REDUCES THE EFFECTIVENESS OF THE SEDIMENT BARRIER.
  - AREA DISTURBED AS A RESULT OF REMOVING THE SEDIMENT BARRIER SHALL BE RE-STABILIZED BY BACKFILLING, COMPACTING, AND SEEDING IN ACCORDANCE WITH THE REVEGETATION PLAN.
  - SEDIMENT BARRIER SHALL BE PLACED TO FOLLOW (RUN PARALLEL TO) THE CONTOURS.
  - ON UPSLOPE INSTALLATIONS, BOTH ENDS OF THE SEDIMENT BARRIER SHALL BE TURNED AND EXTENDED UPSLOPE.
  - SEDIMENT BARRIER SHALL BE INSPECTED WEEKLY AND AFTER EACH RAIN EVENT.

**SPECIFICATIONS FOR SILT FENCE**

SPECIFICATIONS	TYPE A	TYPE B	TYPE C
TENSILE STRENGTH (LBS. MIN. ASTM D-4632)	WARP-260 FILL-100	WARP-260 FILL-100	WARP-260 FILL-100
ELONGATION (% MAX.) (ASTM D-4632)	40	40	40
AOS (APPARENT OPENING SIZE) MAX. SIEVE SIZE (ASTM D-4751)	NO. 30	NO. 30	NO. 30
FLOW RATE (GAL./MIN./SQ. FT.) (GOT-87)	70	25	25
ULTRAVIOLET STABILITY <sup>2</sup> (ASTM D-4632 AFTER 300 HOURS WEATHERING IN ACCORDANCE WITH ASTM D-4355)	80	80	80
BURSTING STRENGTH (PSI MIN.) (ASTM D-3786 DIAPHRAGM BURSTING STRENGTH TESTER)	175	175	175
MINIMUM FABRIC WIDTH (INCHES)	36	36	22

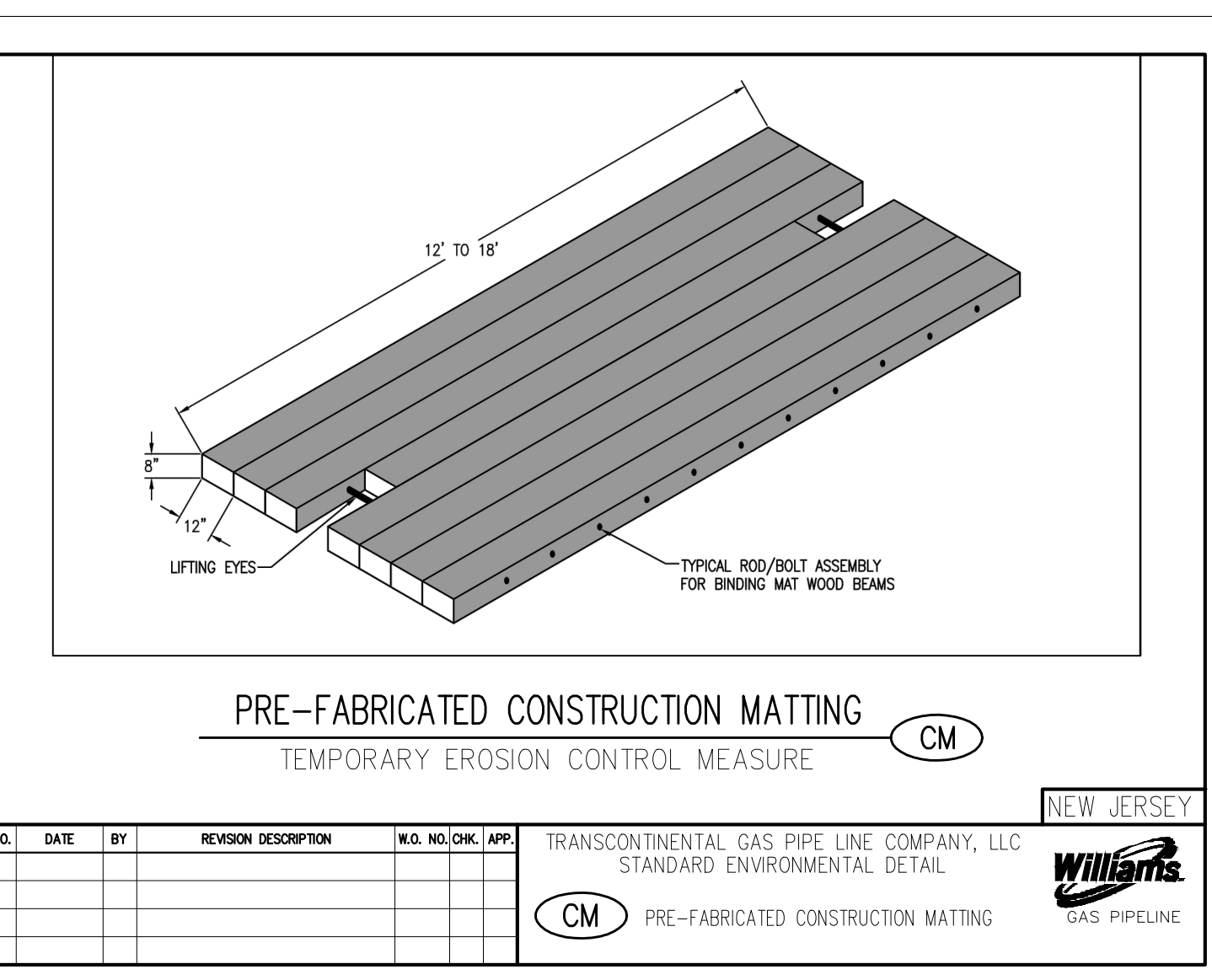
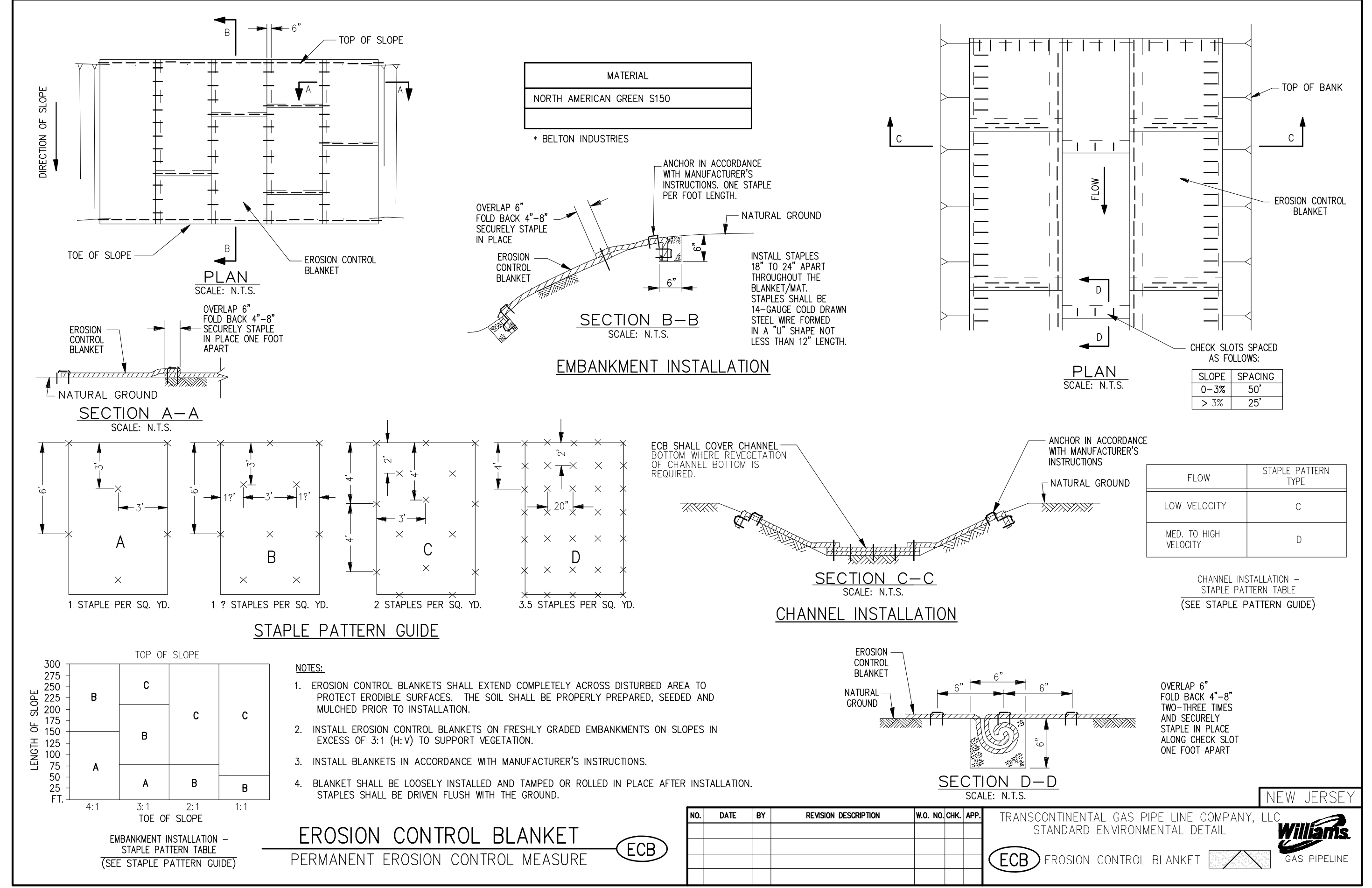
**SLOPE LIMITATIONS FOR SILT FENCE**

LAND SLOPE (PERCENT)	MAXIMUM SLOPE LENGTH ABOVE FENCE (FEET)
V 2	100
2 TO 5	75
5 TO 10	50
10 TO 20*	25
V 20	15

\* IN AREAS WHERE THE SLOPE IS GREATER THAN 10%, A FLAT AREA LENGTH OF 10 FEET BETWEEN THE TOE OF THE SLOPE TO THE FENCE SHOULD BE PROVIDED.

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 STANDARD ENVIRONMENTAL DETAIL  
**SB** SEDIMENT BARRIER  
 Williams GAS PIPELINE



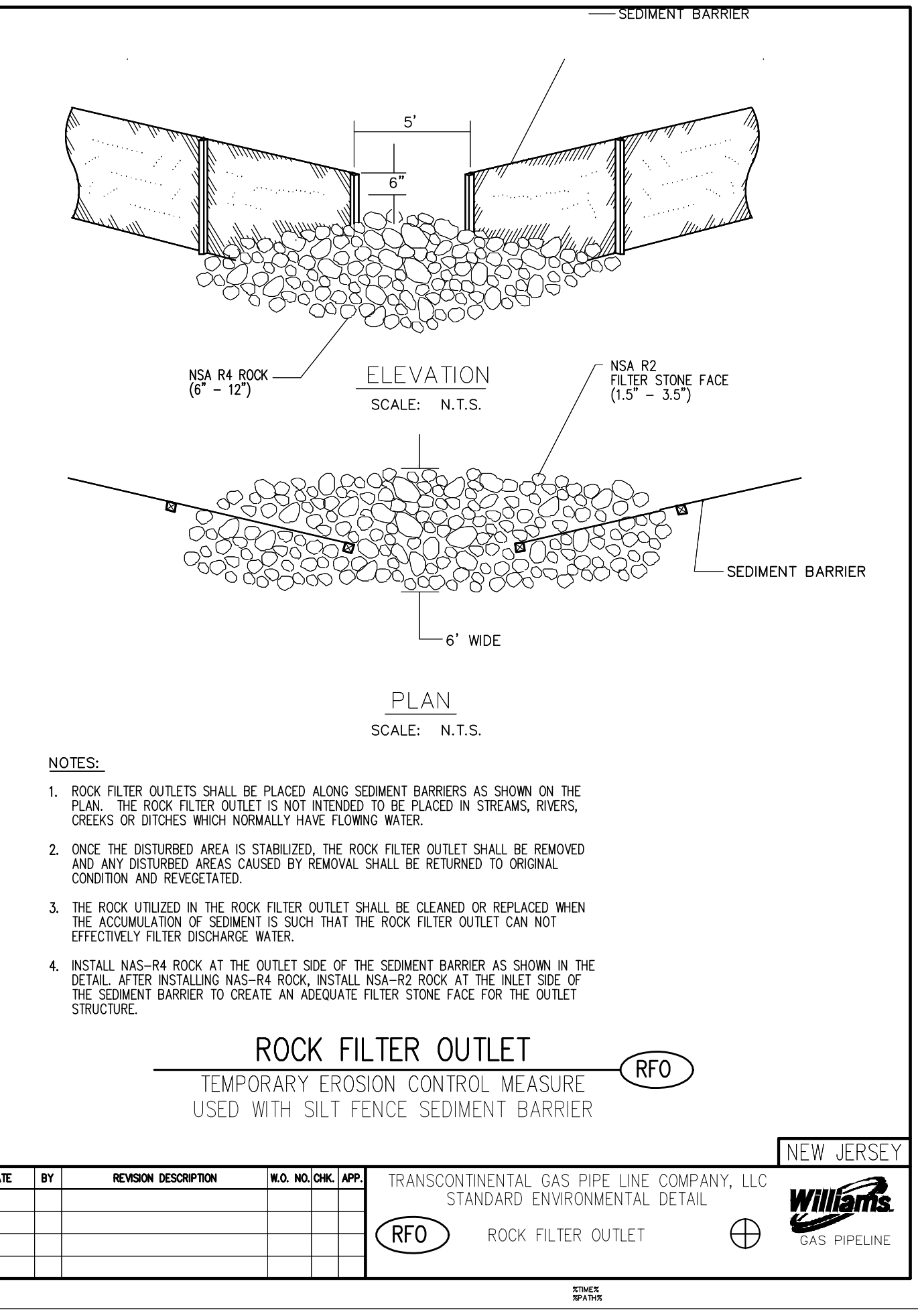
**PRE-FABRICATED CONSTRUCTION MATTING (CM)**  
 TEMPORARY EROSION CONTROL MEASURE

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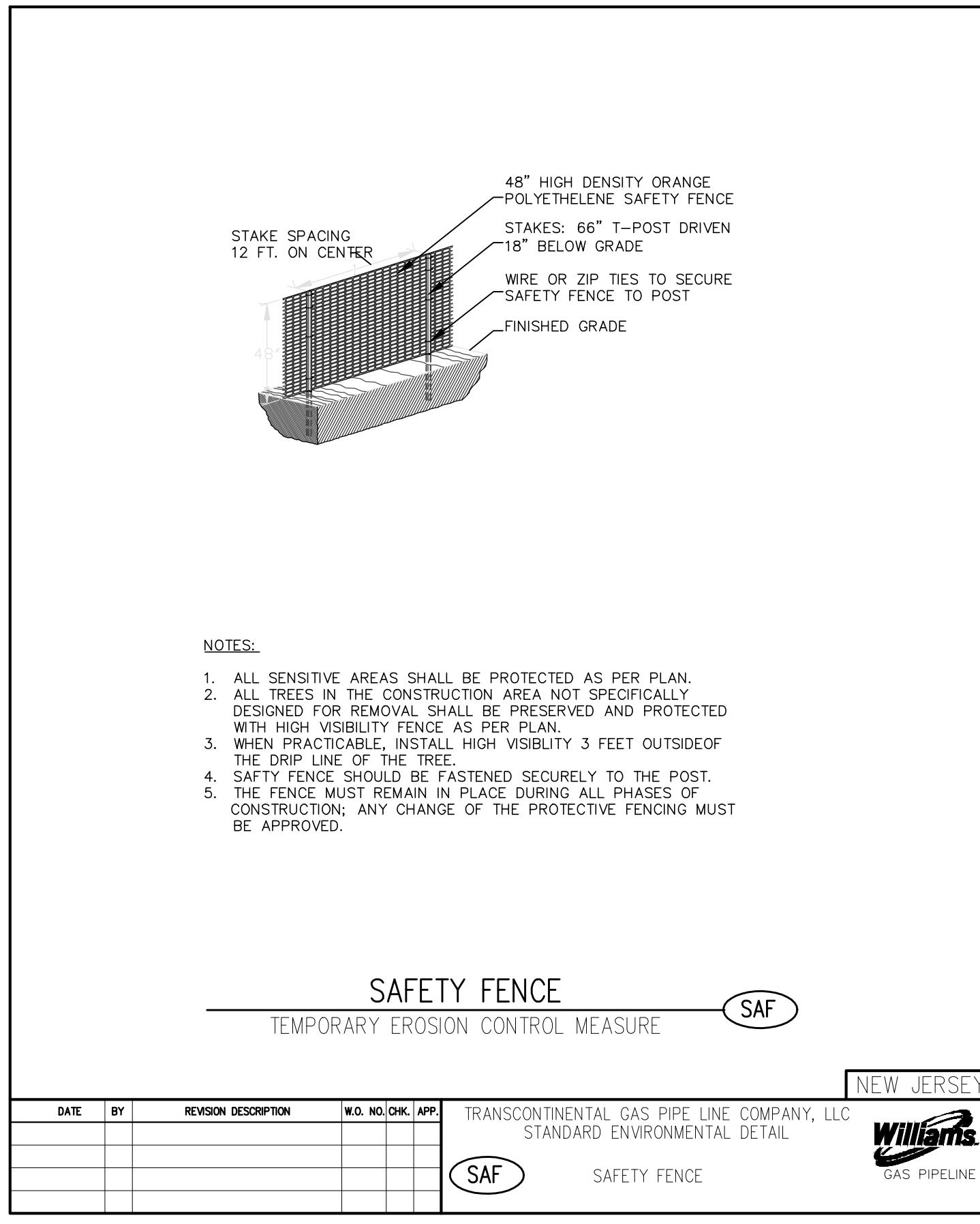
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**CM** PRE-FABRICATED CONSTRUCTION MATTING  
 Williams GAS PIPELINE

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 TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
 STANDARD ENVIRONMENTAL DETAIL  
**ECB** EROSION CONTROL BLANKET  
 Williams GAS PIPELINE



- NOTES:**
- ROCK FILTER OUTLETS SHALL BE PLACED ALONG SEDIMENT BARRIERS AS SHOWN ON THE PLAN. THE ROCK FILTER OUTLET IS NOT INTENDED TO BE PLACED IN STREAMS, RIVERS, CREEKS OR DITCHES WHICH NORMALLY HAVE FLOWING WATER.
  - ONCE THE DISTURBED AREA IS STABILIZED, THE ROCK FILTER OUTLET SHALL BE REMOVED AND ANY DISTURBED AREAS CAUSED BY REMOVAL SHALL BE RETURNED TO ORIGINAL CONDITION AND REVEGETATED.
  - THE ROCK UTILIZED IN THE ROCK FILTER OUTLET SHALL BE CLEANED OR REPLACED WHEN THE ACCUMULATION OF SEDIMENT IS SUCH THAT THE ROCK FILTER OUTLET CAN NOT EFFECTIVELY FILTER DISCHARGE WATER.
  - INSTALL NAS-R4 ROCK AT THE OUTLET SIDE OF THE SEDIMENT BARRIER AS SHOWN IN THE DETAIL. AFTER INSTALLING NAS-R4 ROCK, INSTALL NSA-R2 ROCK AT THE INLET SIDE OF THE SEDIMENT BARRIER TO CREATE AN ADEQUATE FILTER STONE FACE FOR THE OUTLET STRUCTURE.



- NOTES:**
- ALL SENSITIVE AREAS SHALL BE PROTECTED AS PER PLAN.
  - ALL TREES IN THE CONSTRUCTION AREA NOT SPECIFICALLY DESIGNED FOR REMOVAL SHALL BE PRESERVED AND PROTECTED WITH HIGH VISIBILITY FENCE AS PER PLAN.
  - WHEN PRACTICABLE, INSTALL HIGH VISIBILITY 3 FEET OUTSIDE OF THE DRIP LINE OF THE TREE.
  - SAFETY FENCE SHOULD BE FASTENED SECURELY TO THE POST.
  - THE FENCE MUST REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION; ANY CHANGE OF THE PROTECTIVE FENCING MUST BE APPROVED.

**SAFETY FENCE (SAF)**  
 TEMPORARY EROSION CONTROL MEASURE

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 STANDARD ENVIRONMENTAL DETAIL  
**SAF** SAFETY FENCE  
 Williams GAS PIPELINE

KEVIN MCKEON, P.E.

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 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 PROPOSED 26" MADISON LOOP  
 M.P. 8.57 TO M.P. 12.00  
 MIDDLESEX COUNTY, NEW JERSEY

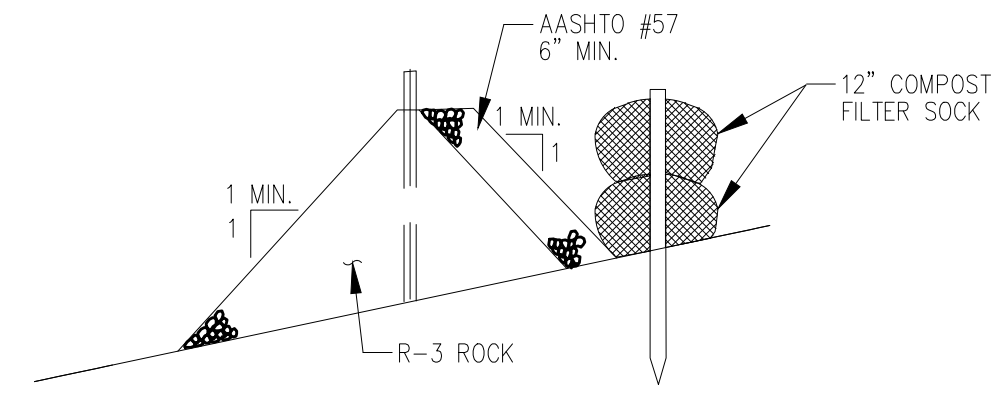
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 APPROVED BY: KDM DATE: 06/15/17 DRAWING NUMBER: 26-0100-80-28-D SHEET 14  
 W.O. 60515775 OF 21

**Williams** GAS PIPELINE

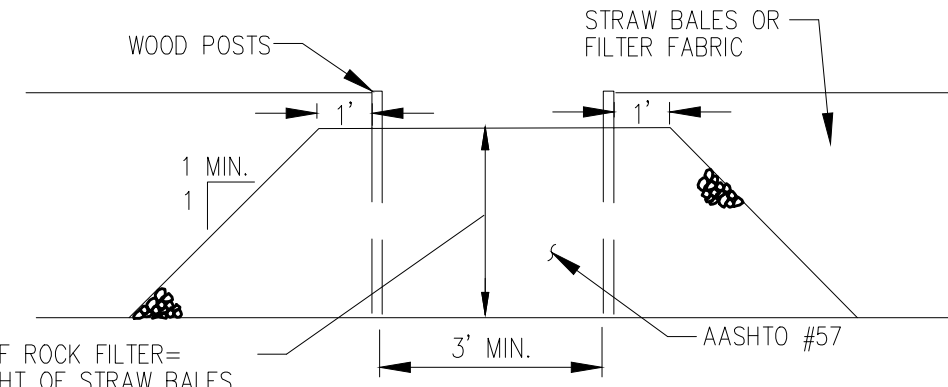
**AECOM**  
 625 WEST RIDGE PIKE, SUITE E-100  
 CONSHOHOCKEN, PA 19428  
 (610) 832-3500  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO G623586



Drawn By: & Date/Time: hoesp, May 30, 2018, 12:00pm  
 Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\400-Technical\400-CAD\E&S\03 - Madison Detail Sheets.dwg



OUTLET CROSS-SECTION



UP-SLOPE FACE

HEIGHT OF ROCK FILTER =  
 5/6 HEIGHT OF STRAW BALES  
 OR FILTER FABRIC FENCE  
 MAXIMUM HEIGHT = 2 FEET

NOTES:

- ROCK FILTER OUTLETS SHALL BE PLACED ALONG SEDIMENT BARRIERS AS SHOWN ON THE PLAN. THE ROCK FILTER OUTLET IS NOT INTENDED TO BE PLACED IN STREAMS, RIVERS, CREEKS OR DITCHES WHICH NORMALLY HAVE FLOWING WATER.
- ONCE THE DISTURBED AREA IS STABILIZED, THE ROCK FILTER OUTLET SHALL BE REMOVED AND ANY DISTURBED AREAS CAUSED BY REMOVAL SHALL BE RETURNED TO ORIGINAL CONDITION AND REVEGETATED.
- SEDIMENT MUST BE REMOVED FROM THE ROCK FILTER OUTLET WHEN ACCUMULATIONS REACH 1/3 THE HEIGHT OF THE OUTLET.
- INSTALL NSA-R3 ROCK AT THE OUTLET SIDE OF THE SEDIMENT BARRIER AS SHOWN IN THE DETAIL. AFTER INSTALLING NSA-R3 ROCK, INSTALL AASHTO #57 ROCK AT THE INLET SIDE OF THE SEDIMENT BARRIER TO CREATE AN ADEQUATE FILTER STONE FACE FOR THE OUTLET STRUCTURE.

ROCK FILTER OUTLET

TEMPORARY EROSION CONTROL MEASURE  
 USED WITH COMPOST FILTER SOCK SEDIMENT BARRIER



NEW JERSEY

NO.	DATE	BY	REVISION DESCRIPTION	NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE CORPORATION  
 STANDARD ENVIRONMENTAL DETAIL

ROCK FILTER OUTLET



**AECOM**  
 625 WEST RIDGE PIKE, SUITE E-100  
 CONSHOHOCKEN, PA 19428  
 (610) 832-3500

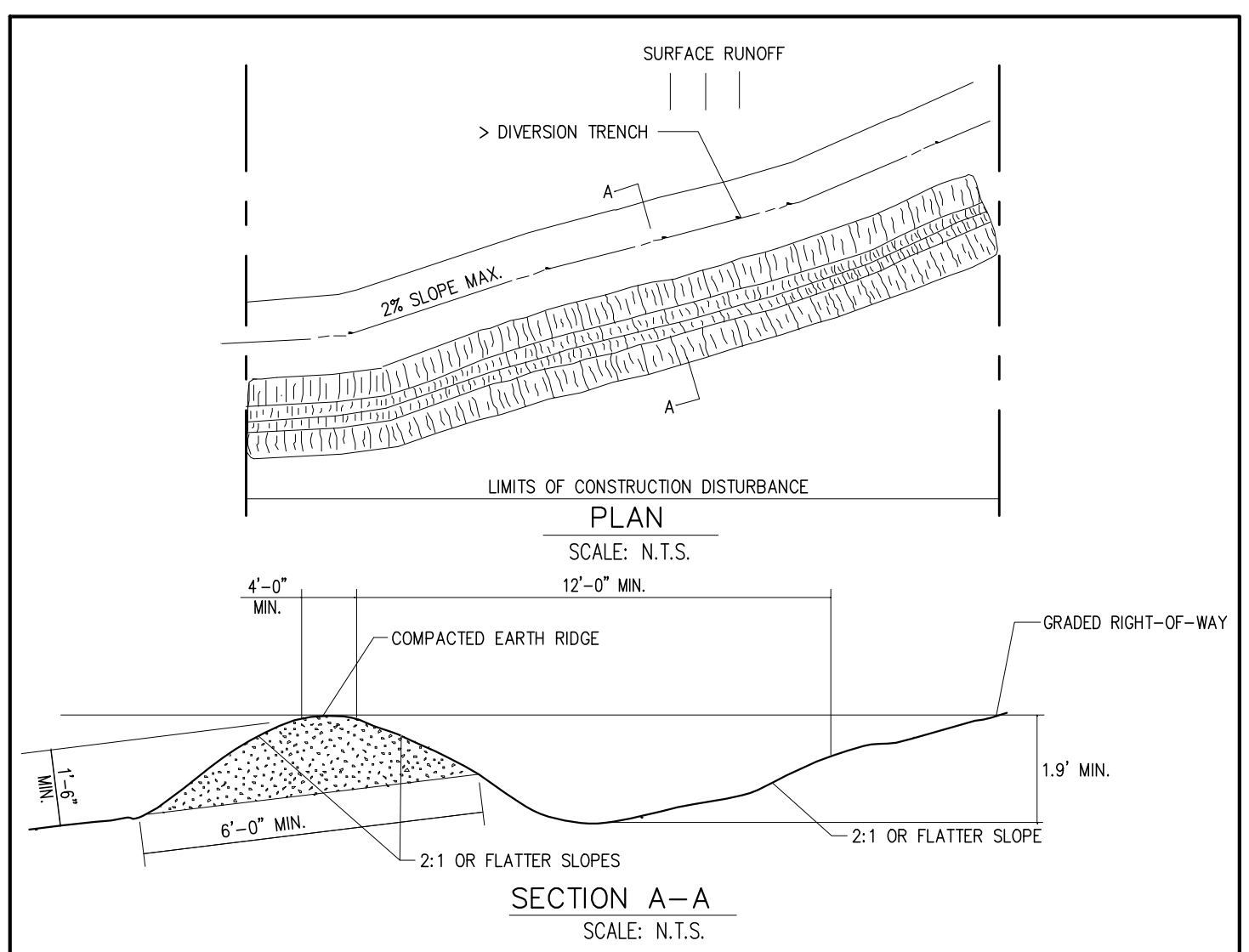
KEVIN MCKEON, P.E.  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO GE32586

REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION & SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 PROPOSED 26" MADISON LOOP  
 M.P. 8.57 TO M.P. 12.00  
 MIDDLESEX COUNTY, NEW JERSEY



DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR BID: TBD	SCALE: NTS
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APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 14A
IWO: 60515775			OF 21



GUIDELINES FOR SPACING SLOPE BREAKS		DESIGN FREQUENCY	
PERCENT OF LAND SLOPE	SPACING (IN FEET)	DIVERSION TYPE	24 HOUR DESIGN STORM FREQUENCY
1%	400	TEMPORARY	2 YEAR
2%	245	CONSTRUCTION AREAS	5 YEAR
5%	125	BUILDING SITES	10 YEAR
10%	78	AGRICULTURAL LAND	10 YEAR
15%	58	MINED RECLAMATION AREA	10 YEAR
20%	47	RECREATION AREA	25 YEAR
25%	40	ISOLATED BUILDING	50 YEAR
30%	35	URBAN AREAS, RESIDENTIAL, SCHOOL, INDUSTRIAL AREAS, ETC.	

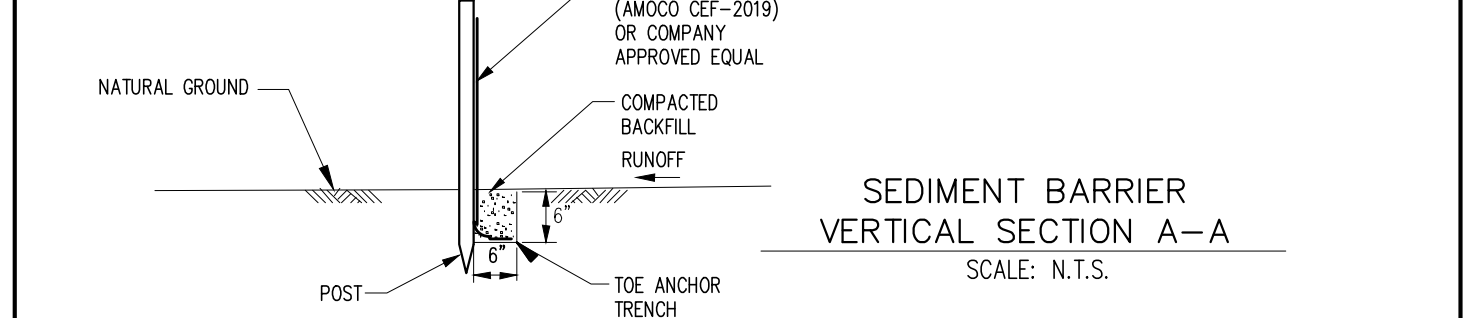
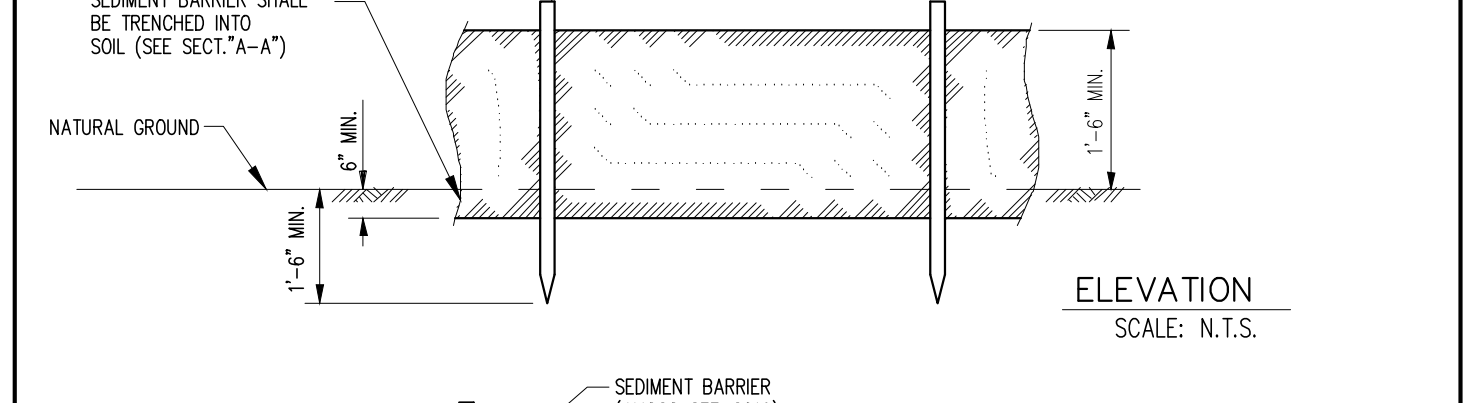
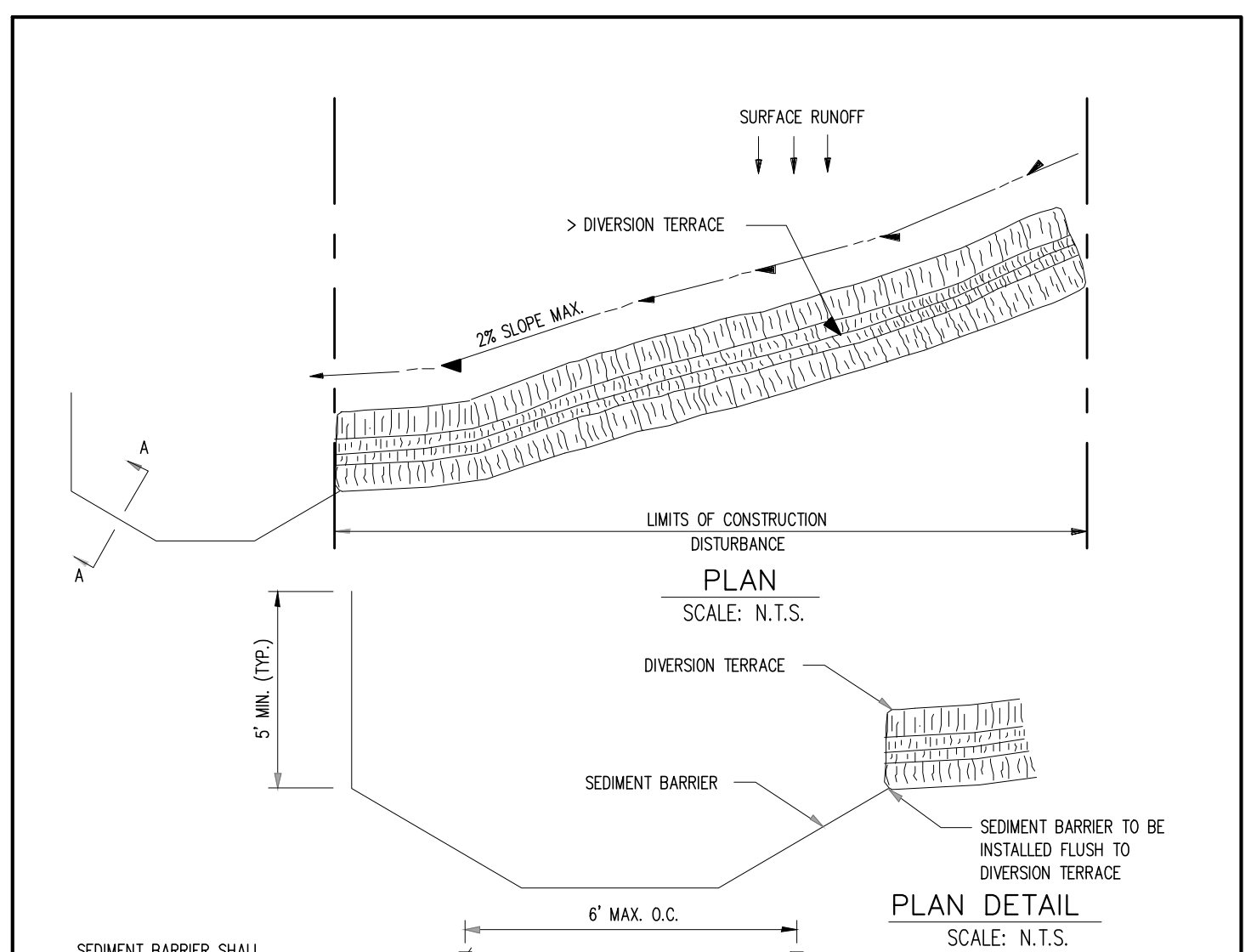
- NOTES:
- DURING CONSTRUCTION, DIVERSION TERRACES SHALL BE RESHAPED AT THE END OF EACH WORK DAY.
  - WHERE SLOPE OF CONSTRUCTION AREA EXCEEDS THAT FOR SAFE INSTALLATION, TERRACES SHALL BE INSTALLED AT BASE OF SLOPE ONLY.
  - AFTER EARTH DISTURBING WORK HAS BEGUN, DIVERSION TERRACES SHALL BE INSTALLED AS SOON AS IS PRACTICABLE AT THE SPACING SHOWN IN THE ABOVE TABLE OR AS SHOWN ON THE DRAWINGS.
  - TEMPORARY AND PERMANENT DIVERSION TERRACES ARE REQUIRED AT ALL WATERBODY CROSSINGS AND UPSLOPE FROM ALL WETLAND BOUNDARIES.
  - THE DIVERSION TERRACE OUTLET SHALL BE LOCATED WHERE RUNOFF WILL BE RELEASED ONTO AN EXISTING WELL VEGETATED AREA. IN THE ABSENCE OF A WELL-VEGETATED AREA, AN OUTLET STRUCTURE (OS) MUST BE INSTALLED AT THE DIVERSION TERRACE OUTLET.
  - DIVERSION TERRACE MUST HAVE A MINIMUM CAPACITY TO CARRY RUNOFF EXPECTED FROM STORM FREQUENCY AS IN TABLE DV-1 AND FREEBOARD OF AT LEAST 0'-3".
  - UNLESS OTHERWISE STABILIZED, THE RIDGE AND CHANNEL SHOULD BE SEEDED WITHIN 14 DAYS OF INSTALLATION IN ACCORDANCE WITH THE PERMANENT OR TEMPORARY SEEDING WHICHEVER IS APPLICABLE PRACTICES.

**DIVERSION TERRACE**  
TEMPORARY AND PERMANENT  
EROSION CONTROL MEASURE

DT

NO.	DATE	BY	REVISION DESCRIPTION	W.D. NO.	CHK.	APP.
1	11-07-11	DPE	DV TO DT	1093153	DPE	

NEW JERSEY  
**Williams**  
 GAS PIPELINE



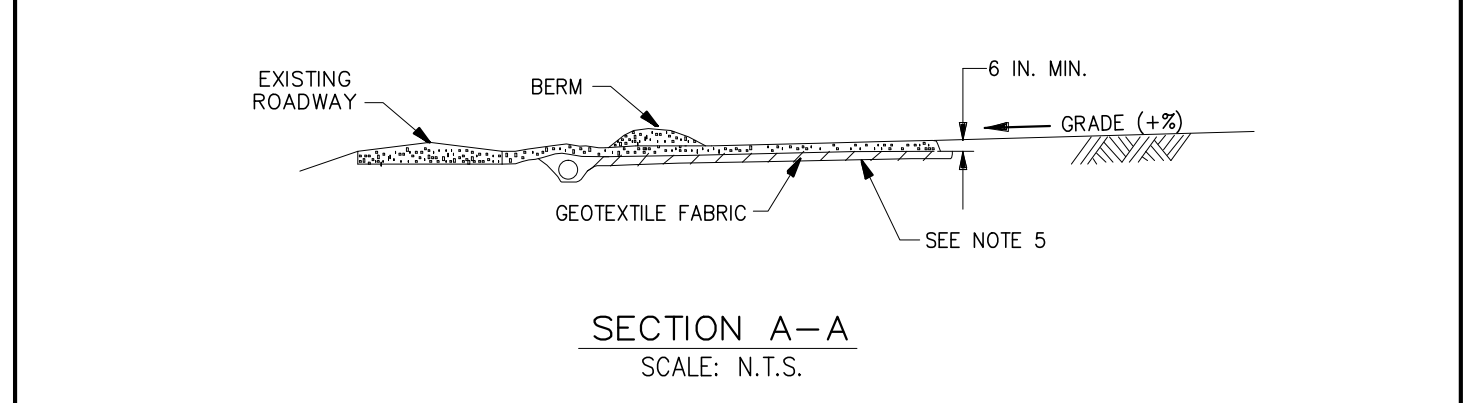
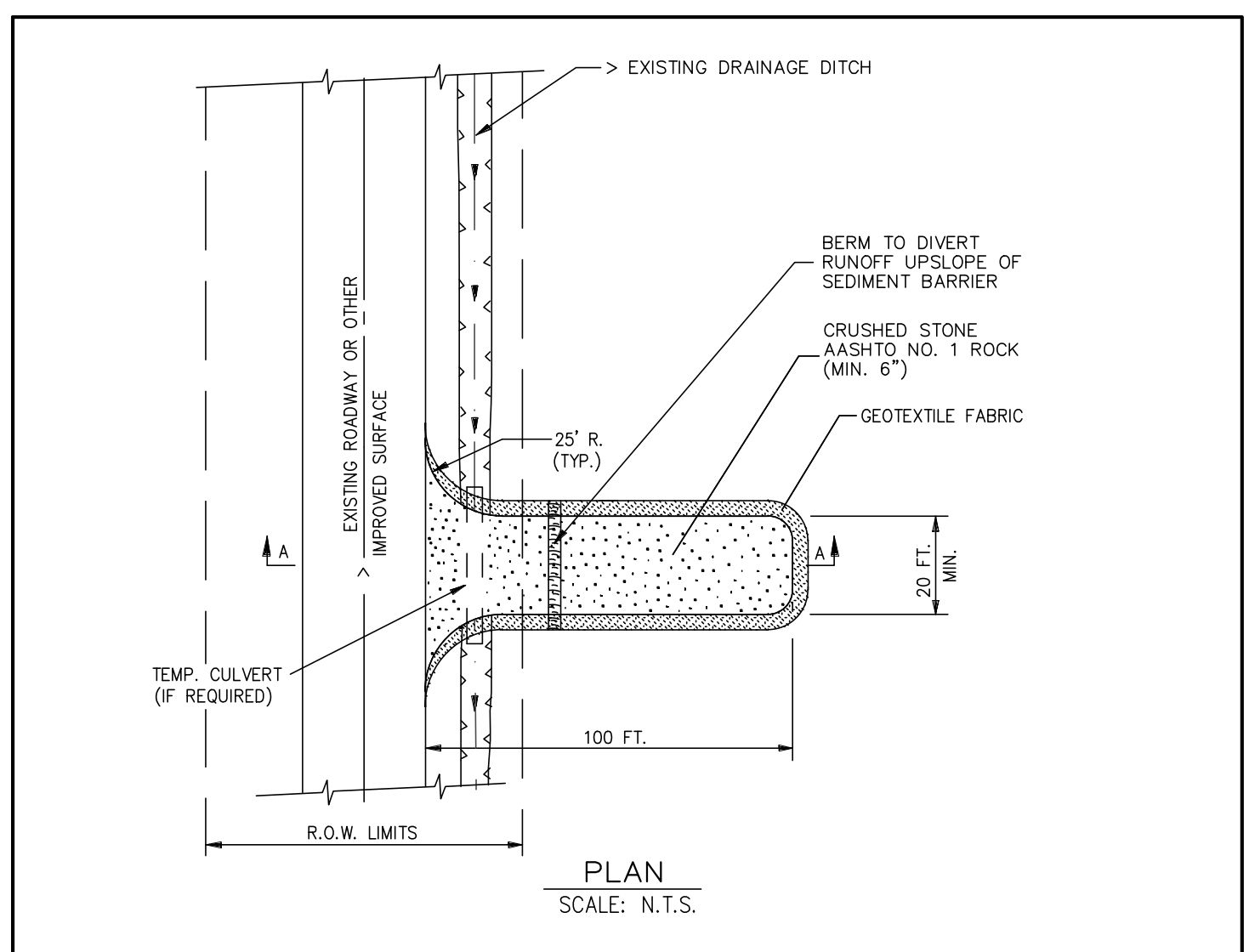
- NOTES:
- SEDIMENT BARRIER HOOKS SHALL BE PLACED AT THE OUTLET OF DIVERSION TERRACES AS SHOWN ON THE PLAN.
  - ONCE THE DISTURBED AREA IS STABILIZED, THE SEDIMENT BARRIER HOOK SHALL BE REMOVED AND ANY DISTURBED AREAS CAUSED BY REMOVAL SHALL BE RETURNED TO ORIGINAL CONDITION AND REVEGETATED.
  - SEDIMENT SHALL BE REMOVED WHEN IT REACHES 15" OR 1/2 THE HEIGHT OF THE SEDIMENT BARRIER.

**SEDIMENT BARRIER HOOK OUTLET STRUCTURE**  
TEMPORARY EROSION CONTROL MEASURE

OS.1

NO.	DATE	BY	REVISION DESCRIPTION	W.D. NO.	CHK.	APP.
1	11-09-11	DPE	REVISED TO MEET NJDEP REQUIREMENTS	1093153	DPE	

NEW JERSEY  
**Williams**  
 GAS PIPELINE



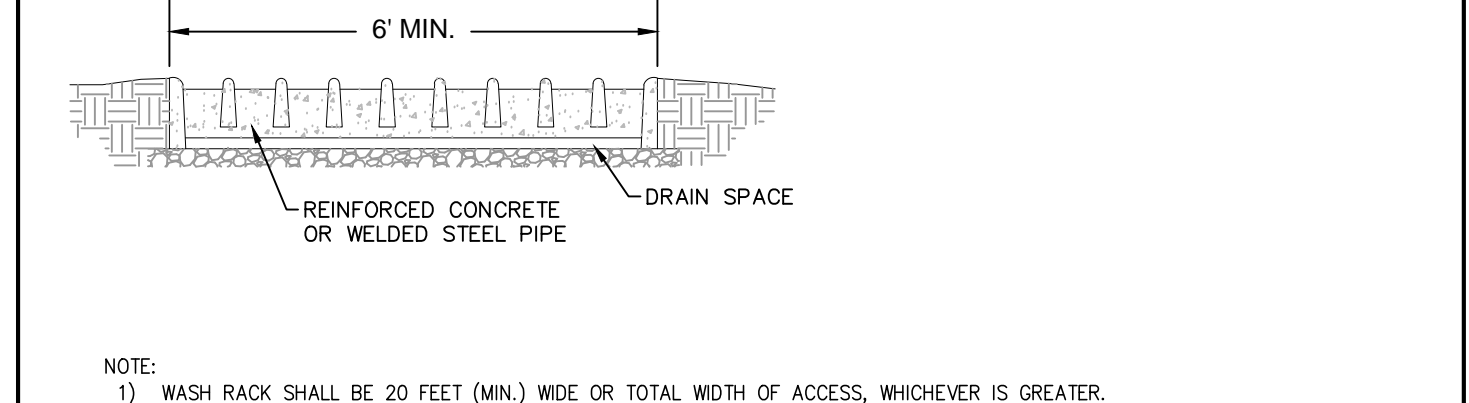
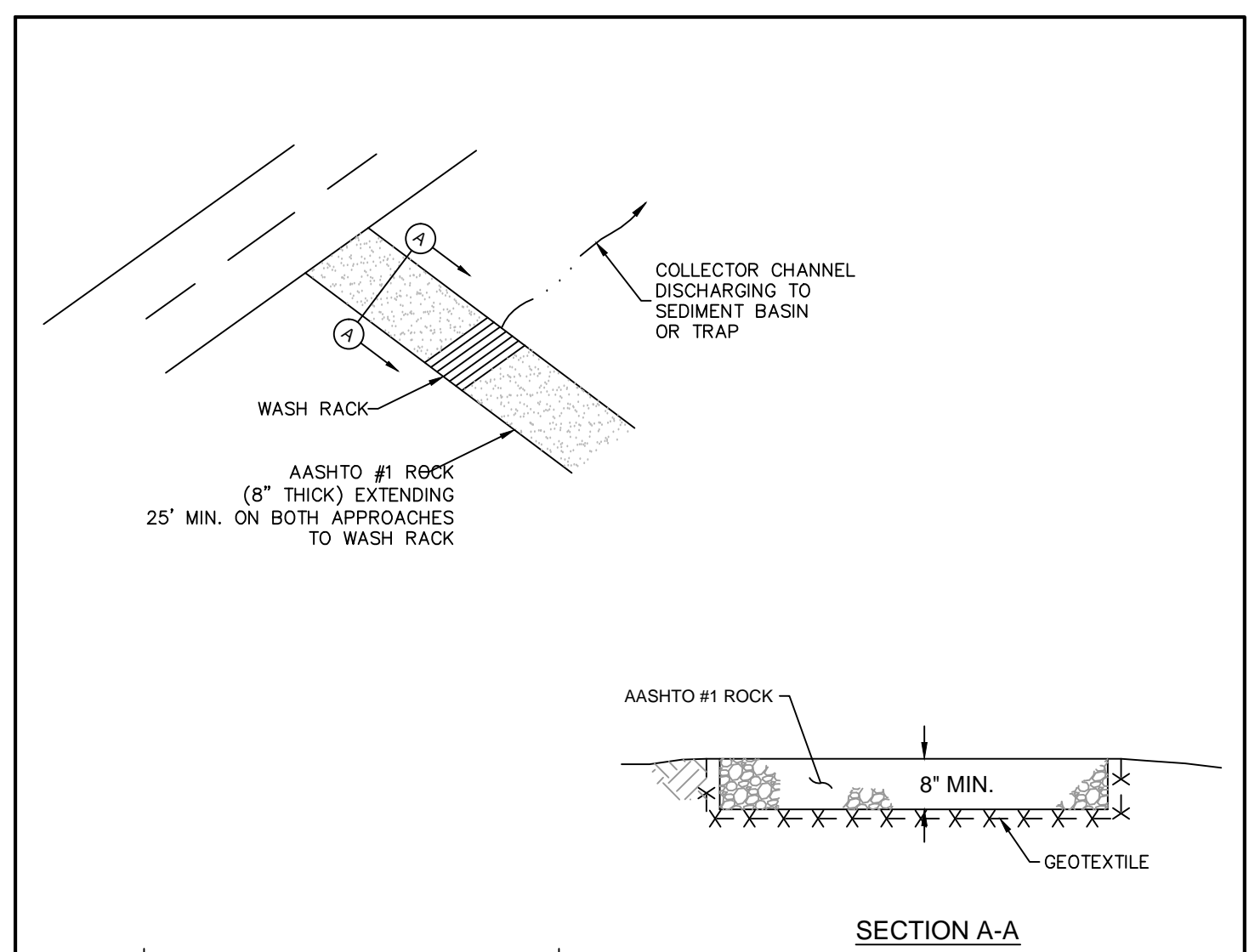
- NOTES:
- STABILIZED ENTRANCE SHALL BE INSTALLED WHERE EQUIPMENT ENTERS AND EXITS CONSTRUCTION SITES ONTO PAVED ROADWAY OR OTHER IMPROVED SURFACE.
  - LOCATE ALL ROADWAY CROSSINGS AND ENTRANCES TO ENSURE SAFE AND ACCESSIBLE CONDITIONS THROUGHOUT THE CONSTRUCTION PHASE.
  - THE ENTRANCE SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION IN A CONDITION WHICH WILL MINIMIZE TRACKING OF SEDIMENT ONTO A PUBLIC ROADWAY.
  - ALL SEDIMENT TRACKED ONTO PAVEMENT SHALL BE REMOVED IMMEDIATELY BY SWEEPING OR SCRAPING.
  - TOP SOIL SHALL BE REMOVED TO A MINIMUM DEPTH OF 6 INCHES PRIOR TO PLACEMENT OF GEOTEXTILE FABRIC AND STONE.
  - WHERE DRAINAGE DITCH EXISTS, CONTRACTOR SHALL PROVIDE AND INSTALL A FLUME PIPE IN ORDER TO PREVENT IMPEDEMENT OF WATER FLOW.
  - THE CONSTRUCTION ENTRANCE SHALL BE REMOVED AND AREA RESTORED AS PART OF FINAL GRADING AND CLEAN UP. REMOVAL IS NOT CONTINGENT UPON ESTABLISHMENT OF PERMANENT VEGETATION.

**CONSTRUCTION ENTRANCE**  
TEMPORARY EROSION CONTROL MEASURE

CE

NO.	DATE	BY	REVISION DESCRIPTION	W.D. NO.	CHK.	APP.
1	11-09-11	DPE	REVISED TO MEET NJDEP REQUIREMENTS	1093153	DPE	

NEW JERSEY  
**Williams**  
 GAS PIPELINE



- NOTE:
- WASH RACK SHALL BE 20 FEET (MIN.) WIDE OR TOTAL WIDTH OF ACCESS, WHICHEVER IS GREATER.
  - WASH RACK SHALL BE CONSTRUCTED TO ACCOMMODATE ANTIPODAR CONSTRUCTION VEHICULAR TRAFFIC.
  - A WATER SUPPLY SHALL BE MADE AVAILABLE TO WASH THE WHEELS OF ALL VEHICLES EXITING THE SITE.
  - MAINTENANCE: ROCK CONSTRUCTION ENTRANCE THICKNESS SHALL BE CONSTANTLY MAINTAINED TO THE SPECIFIED DIMENSIONS BY ADDING ROCK. A STOCKPILE OF ROCK MATERIAL SHALL BE MAINTAINED ON SITE FOR THIS PURPOSE. DRAIN SPACE UNDER WASH RACK SHALL BE KEPT OPEN AT ALL TIMES. DAMAGE TO THE WASH RACK SHALL BE REPAIRED PRIOR TO FURTHER USE OF THE RACK. ALL SEDIMENT DEPOSITED ON ROADWAYS SHALL BE REMOVED AND RETURNED TO THE CONSTRUCTION SITE IMMEDIATELY. WASHING THE ROADWAYS OR SWEEPING THE DEPOSITS INTO ROADWAY DITCHES, SEWERS, CULVERTS, OR OTHER DRAINAGE COURSES IS NOT ACCEPTABLE.
  - IF ROCK CONSTRUCTION ENTRANCES ARE NOT 100 FEET IN LENGTH, THEN WASH RACKS MUST BE UTILIZED.

**WASH RACK**  
TEMPORARY EROSION CONTROL MEASURE

WR

NO.	DATE	BY	REVISION DESCRIPTION	W.D. NO.	CHK.	APP.
1	11-09-11	DPE	REVISED TO MEET NJDEP REQUIREMENTS	1093153	DPE	

NEW JERSEY  
**Williams**  
 GAS PIPELINE

Drawn By: & Date/Time: harsp, May 30, 2018 12:00pm  
 Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\400-Technical\400-CAD\E&S\03 - Madison Detail Sheets.dwg

**CALL BEFORE YOU DIG**  
 1-800-272-1000  
 IT'S THE LAW  
 NEW JERSEY ONE CALL Dig Safety.

**AECOM**  
 825 WEST RIDGE PIKE, SUITE E-100  
 CONSHOHOCKEN, PA 19428  
 (610) 832-3500

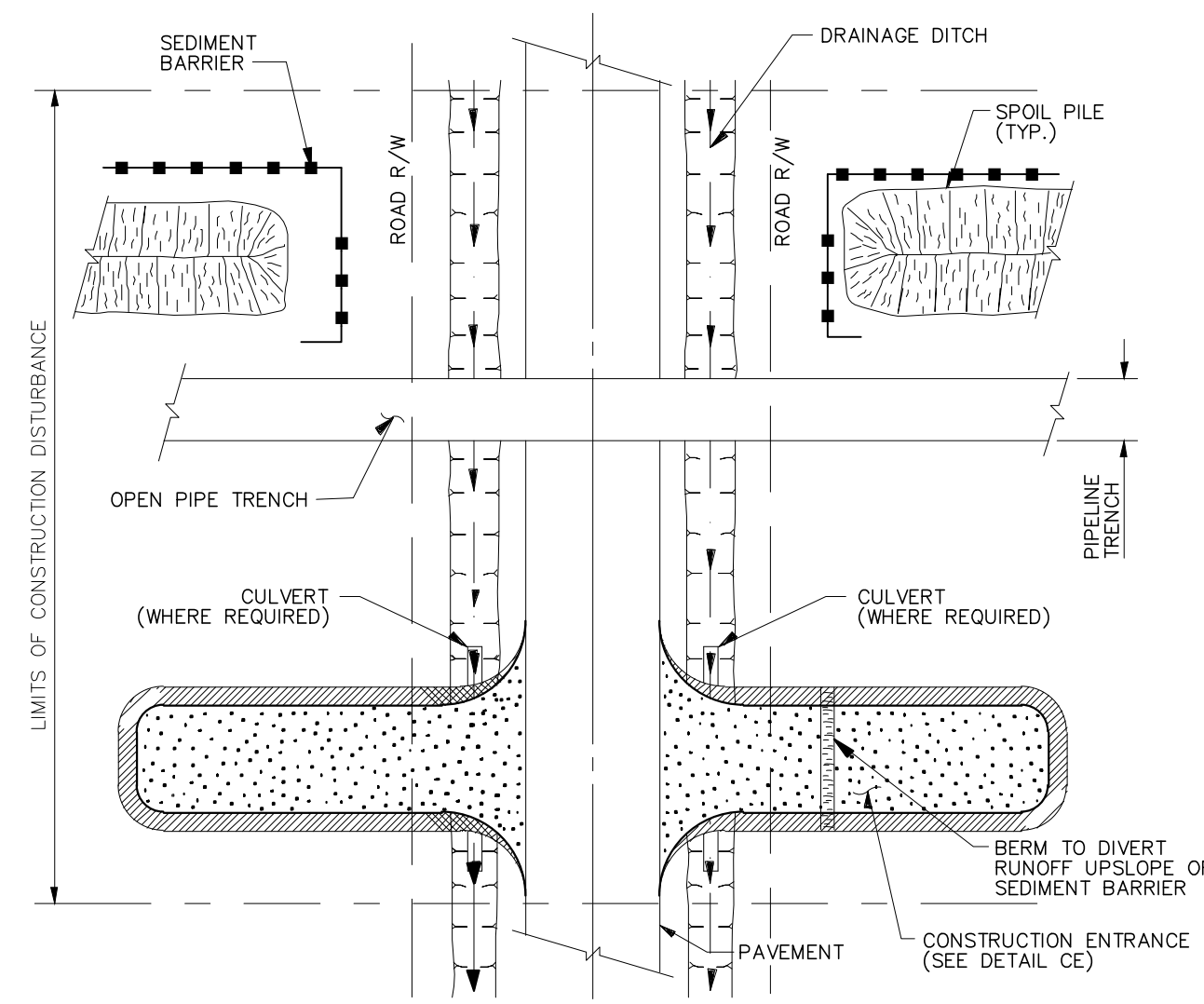
KEVIN MCKEON, P.E.  
 NEW JERSEY  
 PROFESSIONAL ENGINEER NO G232586

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0	06/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION & SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 PROPOSED 26" MADISON LOOP  
 M.P. 8.57 TO M.P. 12.00  
 MIDDLESEX COUNTY, NEW JERSEY

**Williams**  
 GAS PIPELINE

DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR BID: TBD	SCALE: NTS
CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 15
W.D. 60515775			OF 21



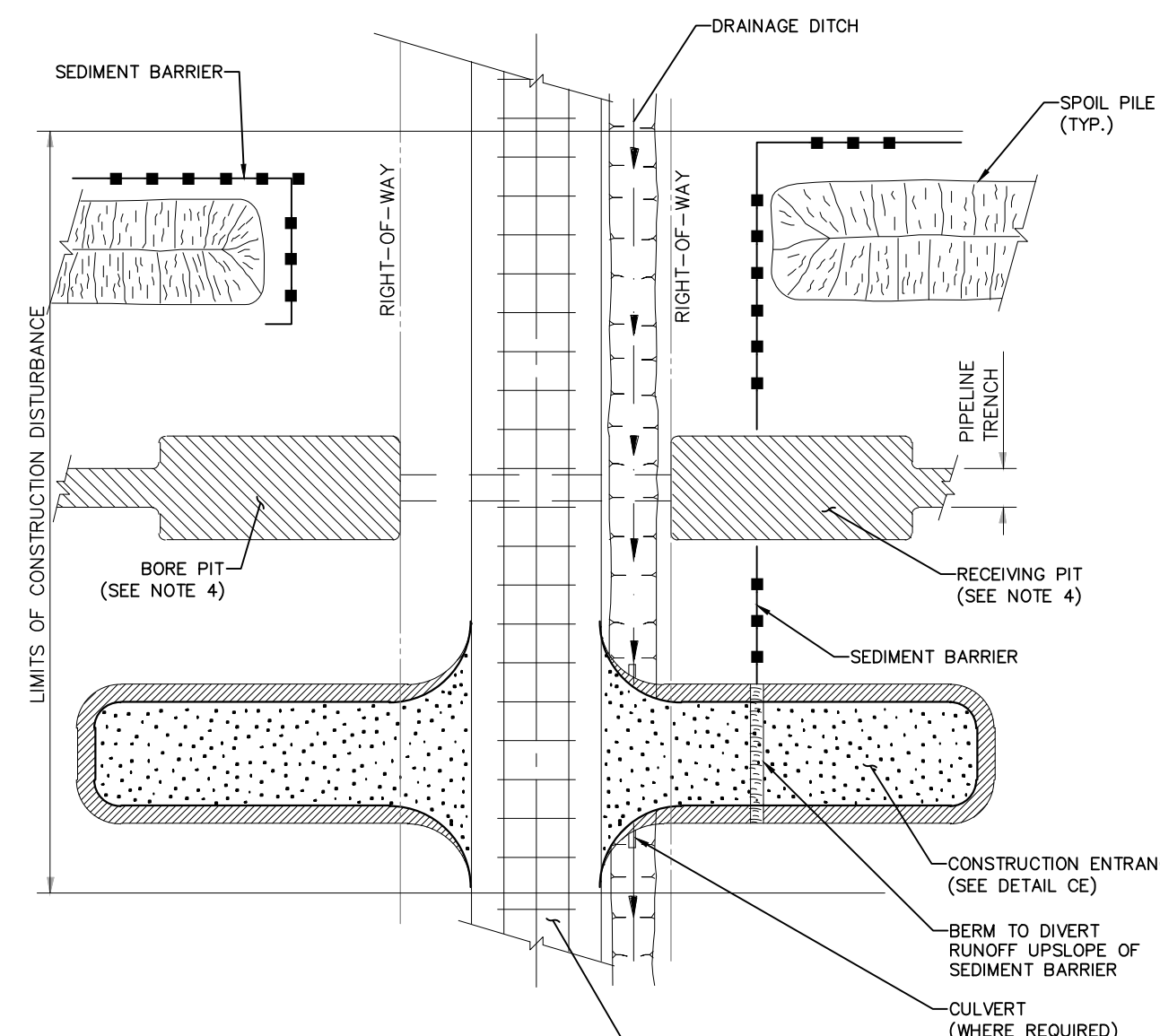
PLAN  
SCALE: N.T.S.

- NOTES:
1. SEDIMENT BARRIER SHALL BE INSTALLED AT THE BASE OF SLOPES ADJACENT TO ROAD CROSSINGS WHERE VEGETATION IS DISTURBED, TO INTERCEPT SURFACE RUNOFF.
  2. PROTECTION FOR SPOIL PILES SHALL BE INSTALLED ONLY WHERE SEDIMENT BARRIERS ACROSS THE ENTIRE DISTURBED AREA ARE NOT REQUIRED.
  3. SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL PERMANENT REVEGETATION IS ESTABLISHED.
  4. CULVERTS TO BE SIZED AND PLACED WHERE REQUIRED TO MAINTAIN WATER FLOW.
  5. CONTRACTOR SHALL BE REQUIRED TO KEEP THE ROAD CLEAN OF DEBRIS AT ALL TIMES.
  6. CONTRACTOR MAY ELECT TO UTILIZE SHEET PILING IN ORDER TO STABILIZE PIPE TRENCH.
  7. CONTRACTOR MAY ELECT TO UTILIZE WELL-POINTS IN ORDER TO REDUCE THE WATER TABLE PRIOR TO COMMENCING EXCAVATION.
  8. DEPENDING ON TOPOGRAPHY AND STATE REQUIREMENTS, SEDIMENT BARRIER MAY BE REQUIRED ACROSS THE ENTIRE CONSTRUCTION RIGHT-OF-WAY AT THE EDGE OF ROAD. IN ADDITION TO THIS DETAIL, REFER TO THE ENVIRONMENTAL ALIGNMENT DRAWINGS FOR PLACEMENT OF SEDIMENT BARRIERS.
  9. CONSTRUCTION ENTRANCE NEEDED AS SHOWN ON SPECIFIC PLAN.

TRENCHED ROAD CROSSING  
TEMPORARY EROSION CONTROL MEASURE (RX.1)

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

NEW JERSEY  
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL  
Williams GAS PIPELINE  
(RX.1) TRENCHED ROAD CROSSING



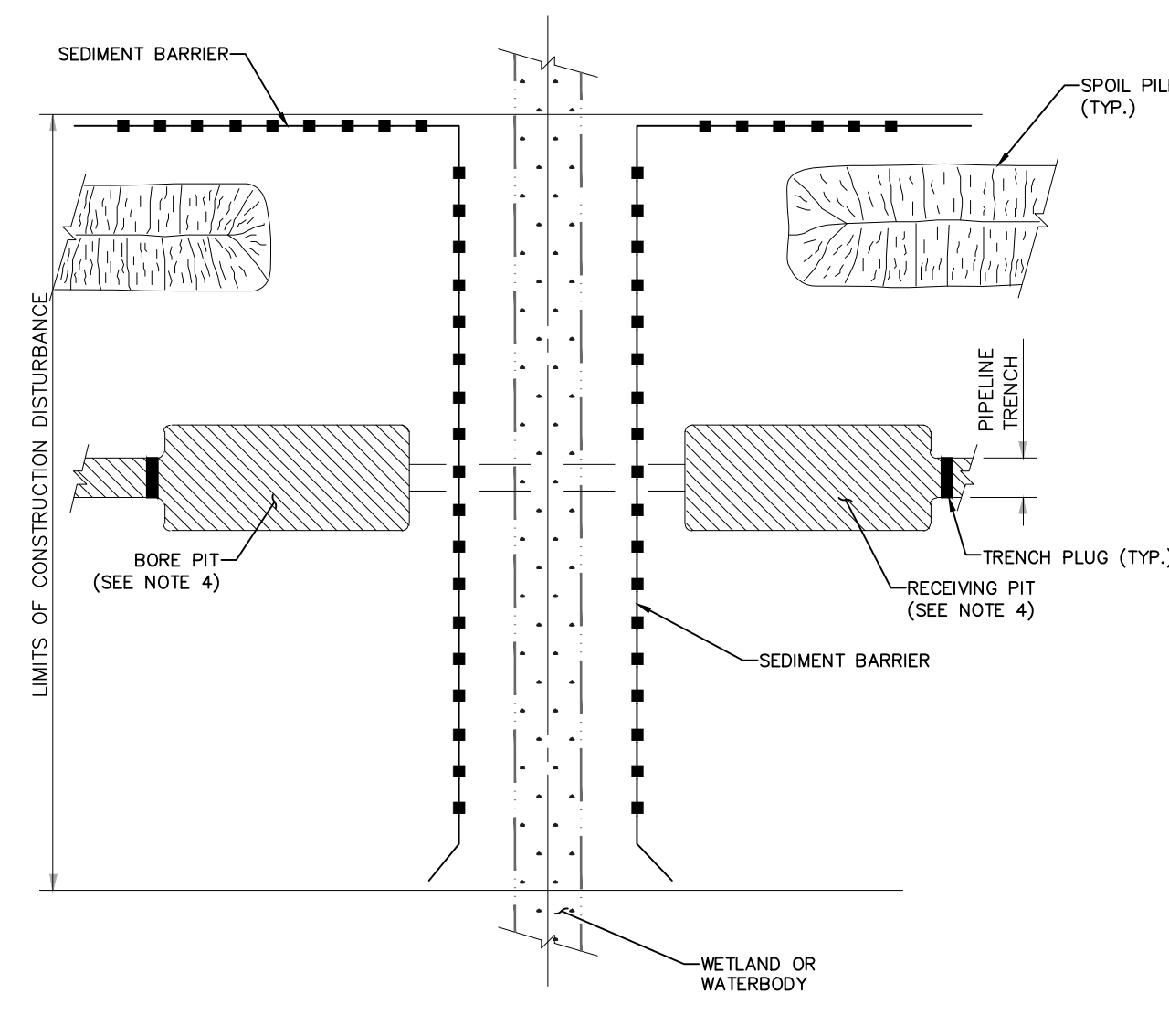
PLAN  
SCALE: N.T.S.

- NOTES:
1. SEDIMENT BARRIER SHALL BE INSTALLED AT THE BASE OF SLOPES ADJACENT TO ROAD CROSSINGS WHERE VEGETATION IS DISTURBED, TO INTERCEPT SURFACE RUNOFF.
  2. PROTECTION FOR SPOIL PILES SHALL BE INSTALLED ONLY WHERE SEDIMENT BARRIERS ACROSS THE ENTIRE DISTURBED AREA ARE NOT REQUIRED.
  3. SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL PERMANENT REVEGETATION IS ESTABLISHED.
  4. WATER REMOVED FROM BORE PIT AND RECEIVING PIT SHALL BE FILTERED THROUGH A DEWATERING STRUCTURE OR FILTER BAG.
  5. IF WELL POINTING IS REQUIRED PRIOR TO EXCAVATING BORE PITS, CONTRACTOR SHALL CONSULT WITH COMPANY'S ENVIRONMENTAL INSPECTOR PRIOR TO COMMENCEMENT OF WORK IN ORDER TO DETERMINE PROPER DEWATERING LOCATION.
  6. CONTRACTOR SHALL BE REQUIRED TO KEEP THE ROAD CLEAN OF DEBRIS AT ALL TIMES.
  7. CONTRACTOR MAY ELECT TO UTILIZE SHEET PILING IN ORDER TO STABILIZE BORE PITS.
  8. DEPENDING ON TOPOGRAPHY AND STATE REQUIREMENTS, SEDIMENT BARRIER MAY BE REQUIRED ACROSS THE ENTIRE CONSTRUCTION RIGHT OF WAY AT THE EDGE OF ROAD. IN ADDITION TO THIS DETAIL, REFER TO THE ENVIRONMENTAL ALIGNMENT DRAWINGS FOR PLACEMENT OF SEDIMENT BARRIERS.

BORED ROAD/RAILROAD CROSSING  
TEMPORARY EROSION CONTROL MEASURE (RX.2)

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

NEW JERSEY  
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL  
Williams GAS PIPELINE  
(RX.2) BORED ROAD/RAILROAD CROSSING



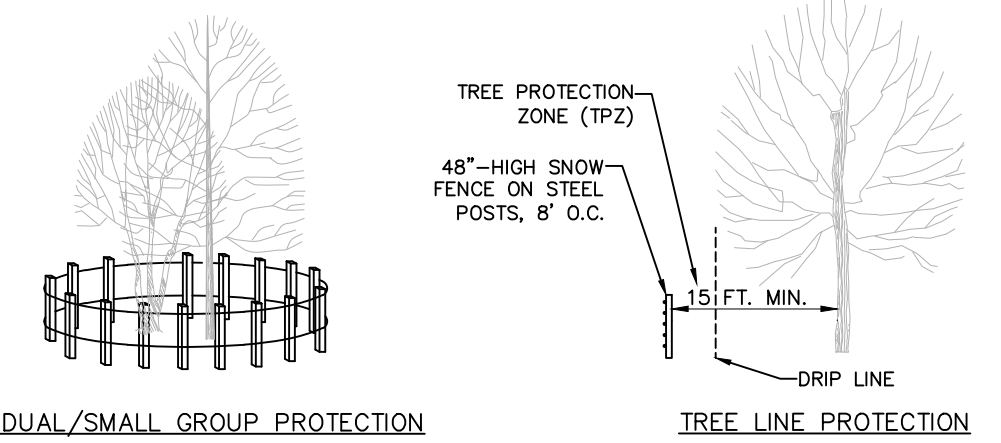
PLAN  
SCALE: N.T.S.

- NOTES:
1. SEDIMENT BARRIER SHALL BE INSTALLED AT THE BASE OF SLOPES ADJACENT TO WATER BODY CROSSINGS WHERE VEGETATION IS DISTURBED, TO INTERCEPT SURFACE RUNOFF.
  2. PROTECTION FOR SPOIL PILES SHALL BE INSTALLED ONLY WHERE SEDIMENT BARRIERS ACROSS THE ENTIRE DISTURBED AREA ARE NOT REQUIRED.
  3. SEDIMENT BARRIERS SHALL REMAIN IN PLACE UNTIL PERMANENT REVEGETATION IS ESTABLISHED.
  4. WATER REMOVED FROM BORE PIT AND RECEIVING PIT SHALL BE FILTERED THROUGH A DEWATERING STRUCTURE OR FILTER BAG.
  5. IF WELL POINTING IS REQUIRED PRIOR TO EXCAVATING BORE PITS, CONTRACTOR SHALL CONSULT WITH COMPANY'S ENVIRONMENTAL INSPECTOR PRIOR TO COMMENCEMENT OF WORK IN ORDER TO DETERMINE PROPER DEWATERING LOCATION.
  6. CONTRACTOR SHALL BE REQUIRED TO KEEP THE ROAD CLEAN OF DEBRIS AT ALL TIMES.
  7. CONTRACTOR MAY ELECT TO UTILIZE SHEET PILING IN ORDER TO STABILIZE BORE PITS.
  8. DEPENDING ON TOPOGRAPHY AND STATE REQUIREMENTS, SEDIMENT BARRIER MAY BE REQUIRED ACROSS THE ENTIRE CONSTRUCTION RIGHT OF WAY AT THE EDGE OF ROAD. IN ADDITION TO THIS DETAIL, REFER TO THE ENVIRONMENTAL ALIGNMENT DRAWINGS FOR PLACEMENT OF SEDIMENT BARRIERS.

BORED WETLAND/WATERBODY CROSSING  
TEMPORARY EROSION CONTROL MEASURE (WBX)

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

NEW JERSEY  
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL  
Williams GAS PIPELINE  
(WBX) BORED WETLAND/WATERBODY CROSSING



- NOTES:
1. PROTECT TREES WITHIN 25 FEET OF BUILDING SITE TO PREVENT MECHANICAL INJURY. FENCING OF OTHER BARRIERS SHOULD BE INSTALLED AT THE DRIP LINE OF THE TREE BRANCHES.
  2. TREE PROTECTION ZONE SHALL EXTEND AT LEAST 15 FT. FROM THE TRUNK OF THE TREE OR AT THE EDGE OF THE DRIP LINE, WHICHEVER IS GREATER.
  3. BOARDS WILL NOT BE NAILED TO TREES DURING BUILDING OPERATIONS.
  4. FEEDER ROOTS SHOULD NOT BE CUT IN AN AREA INSIDE THE DRIP LINE OF THE TREE BRANCHES.
  5. DAMAGED TRUNKS OR EXPOSED ROOTS SHOULD BE PAINTED IMMEDIATELY WITH A GOOD GRADE OF "TREE PAINT". CARE FOR SERIOUS INJURY SHOULD BE PRESCRIBED BY A PROFESSIONAL FORESTER OR LICENSED TREE EXPERT.
  6. TREE LIMB REMOVAL, WHERE NECESSARY, WILL BE DONE FLUSH TO TRUNK OR MAIN BRANCH AND THAT AREA WILL BE PAINTED WITH A GOOD GRADE OF TREE PAINT.

TREE PROTECTION (DURING CONSTRUCTION)  
TEMPORARY EROSION CONTROL MEASURE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

NEW JERSEY  
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
STANDARD ENVIRONMENTAL DETAIL  
Williams GAS PIPELINE  
TREE PROTECTION (DURING CONSTRUCTION)

DUST CONTROL MATERIALS (TABLE 16-1)

MATERIAL	WATER DILUTION	TYPE OF NOZZLE	APPLY GALLONS/ACRE
ANIONIC ASPHALT EMULSION	7:1	COARSE SPRAY	1200
LATEX EMULSION	12.5:1	FINE SPRAY	235
RESIN IN WATER	4:1	FINE SPRAY	300
POLYACRYLAMIDE (PAM)- SPRAY ON POLYACRYLAMIDE (PAM)- DRY SPREAD	APPLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS.		
ACIDULATED SOY BEAN SOAP STICK	NONE	COARSE SPRAY	1200
WATER	NONE	FINE SPRAY	235

KEVIN MCKEON, P.E.						
REVISIONS						
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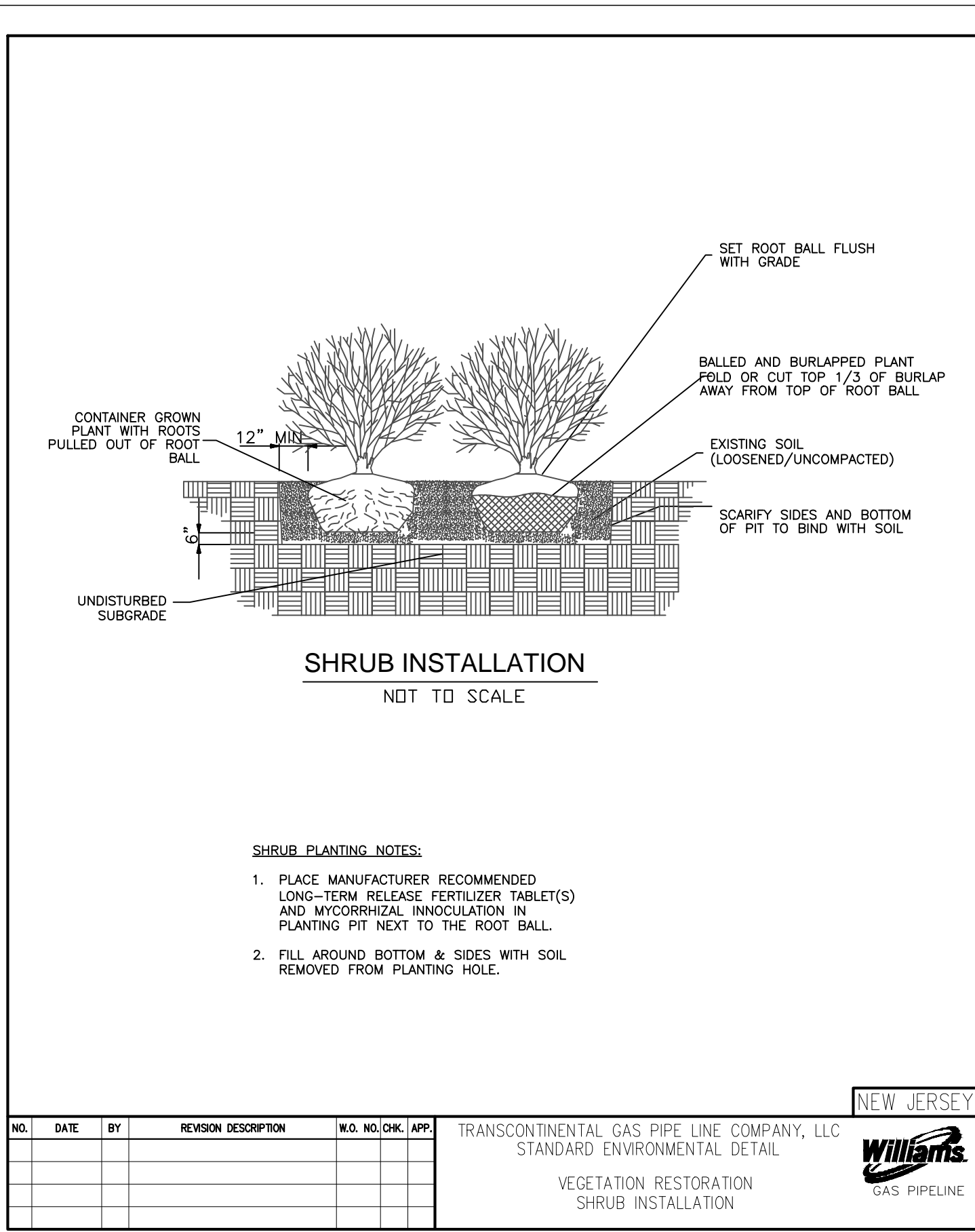
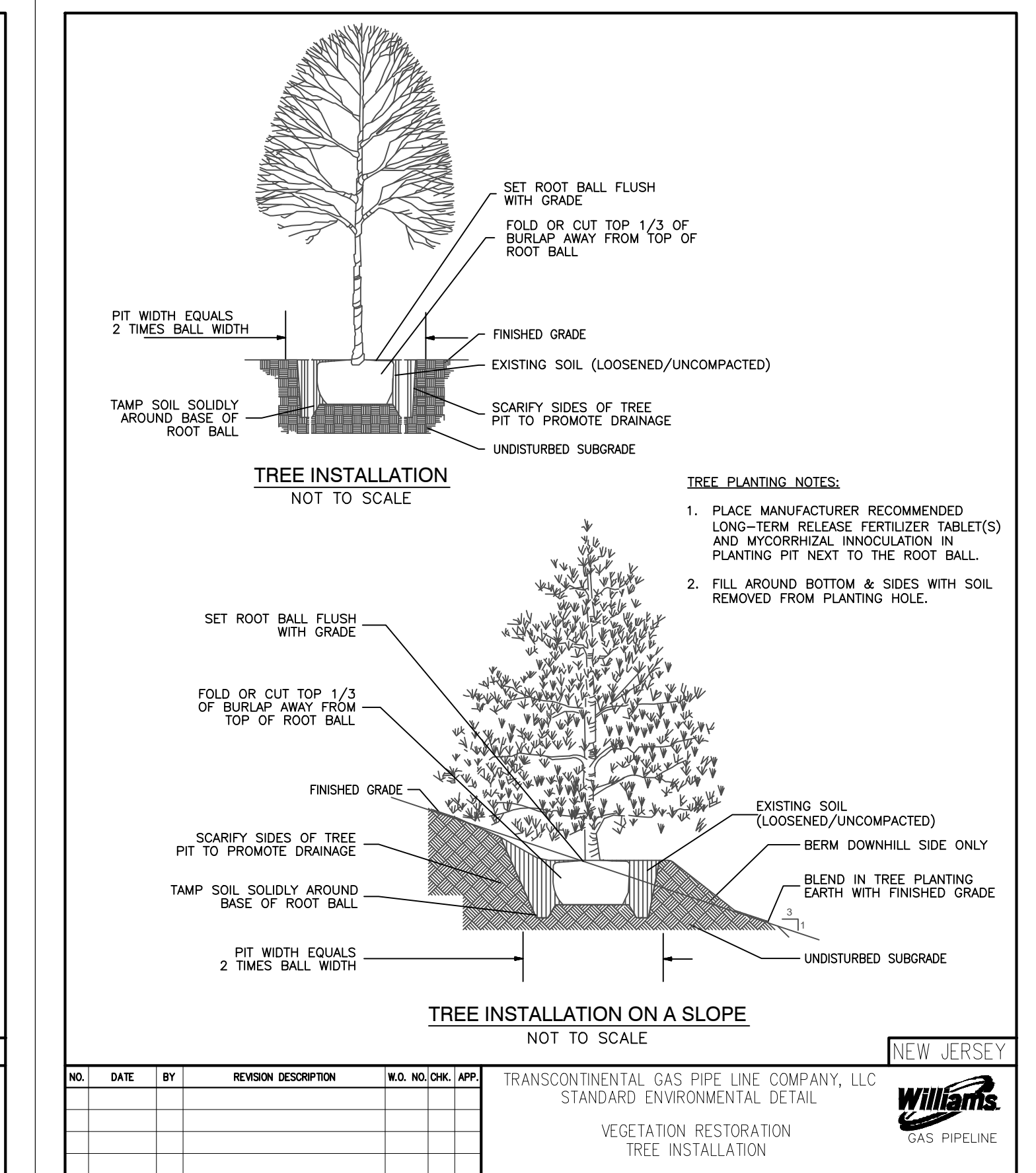
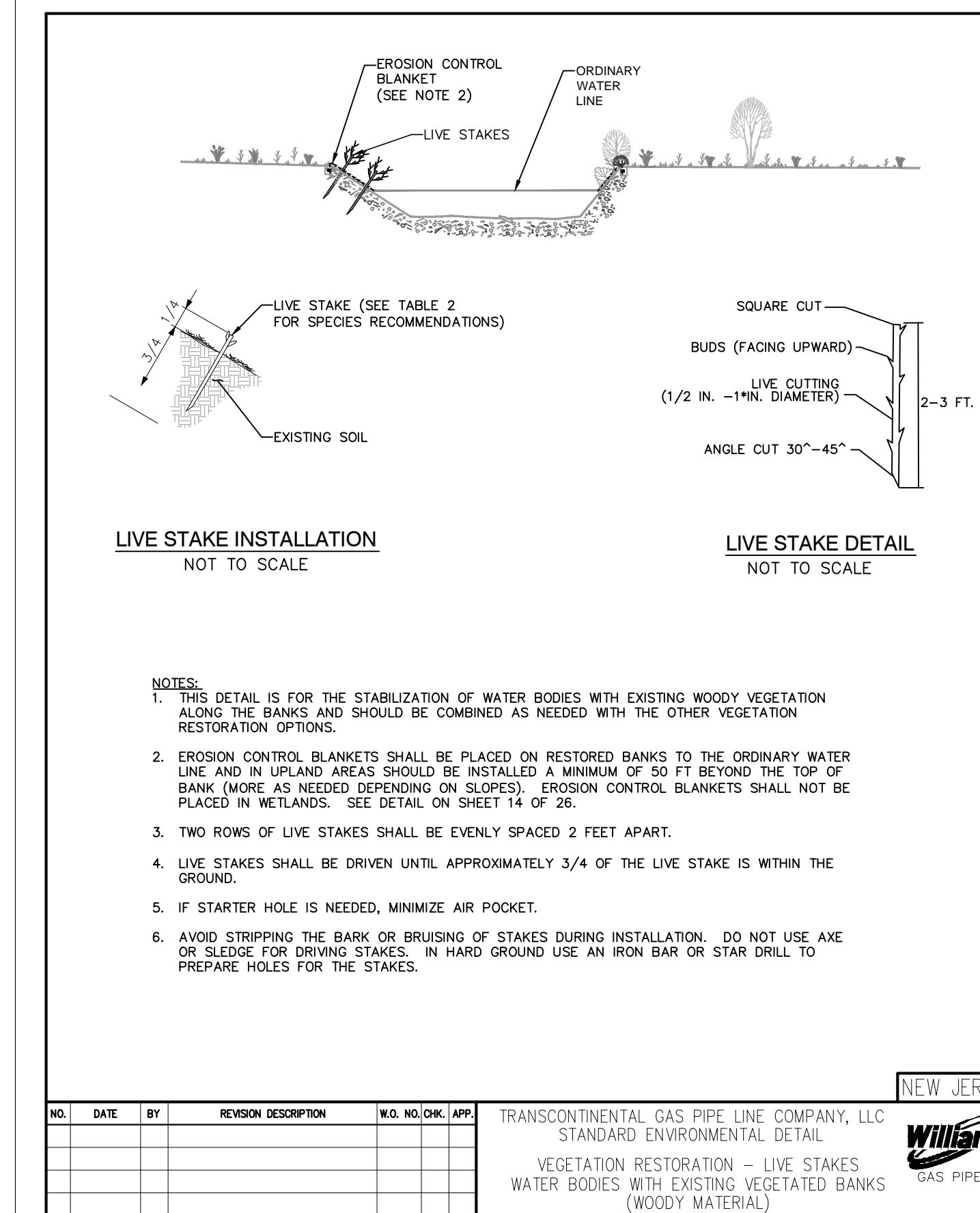
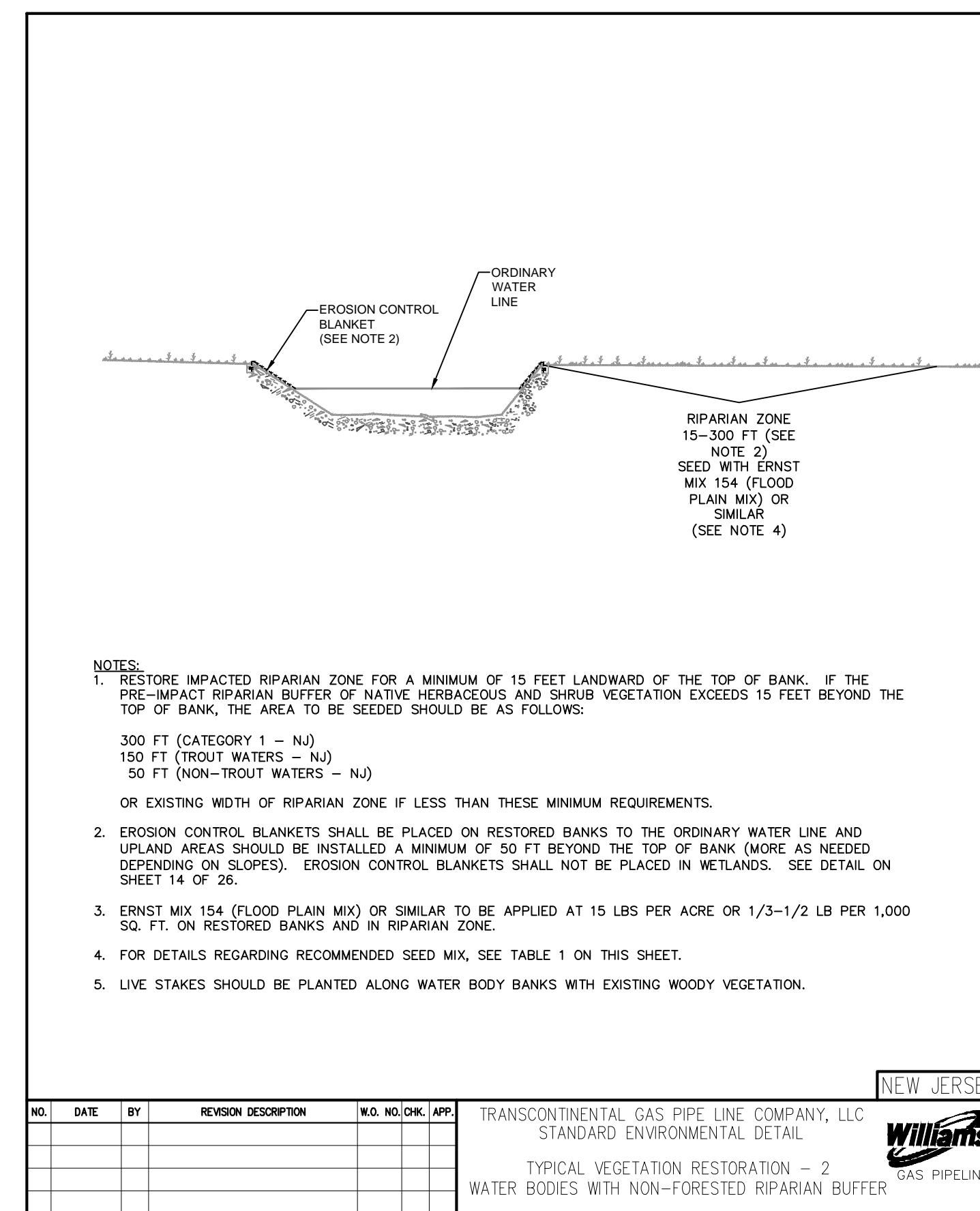
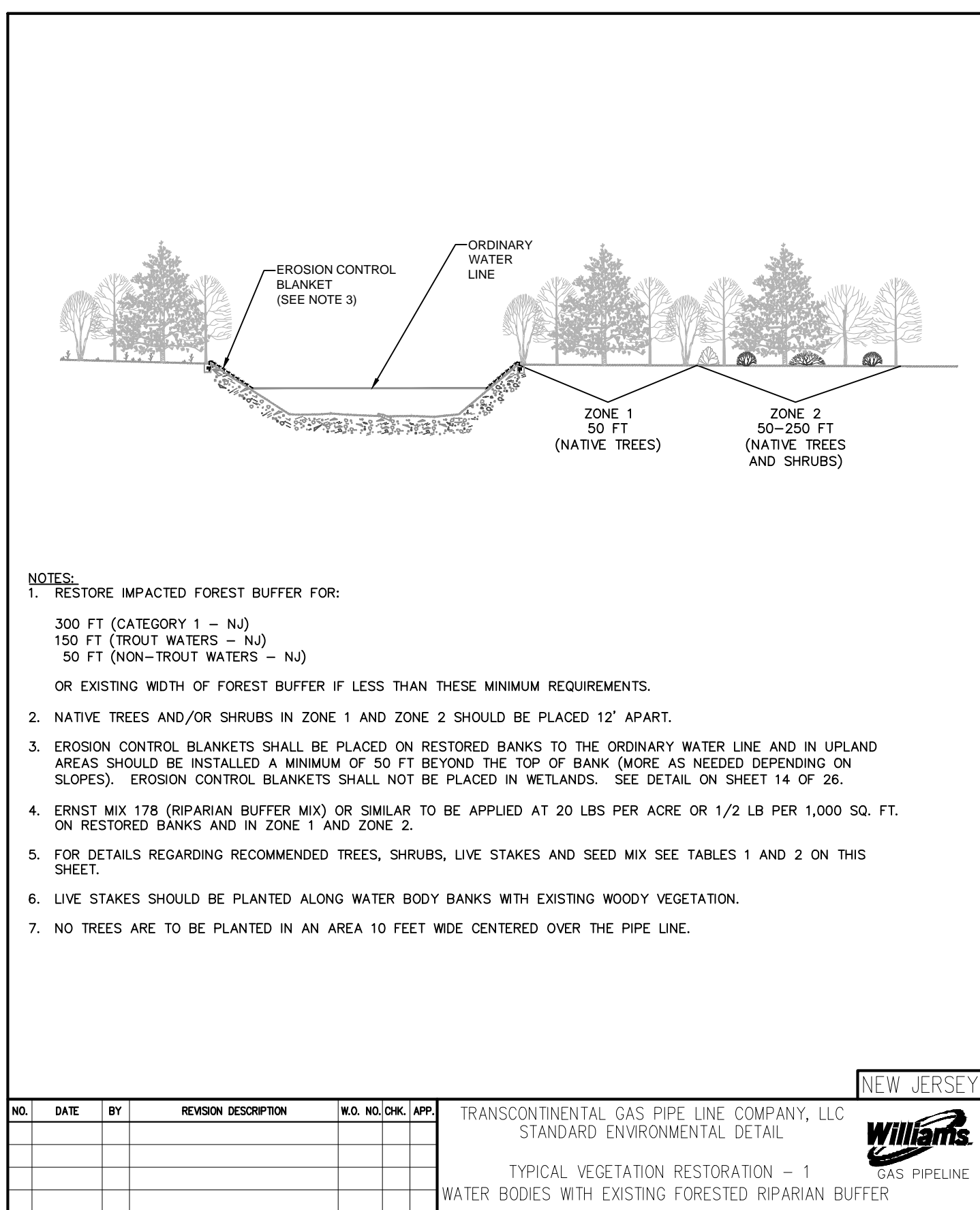
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
SOIL EROSION & SEDIMENT CONTROL PLAN  
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APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 16
W.O. 60515775			OF 21



NEW JERSEY  
PROFESSIONAL ENGINEER NO G252586





**TABLE 1 - RECOMMENDED SEEDING SCHEDULE**

**RIPARIAN BUFFER MIX (ERNMX-178)**  
 APPLICATION RATE: 20 LBS PER ACRE OR 1/2 LB PER 1,000 SQUARE FEET

SCIENTIFIC NAME	COMMON NAME	PERCENT COMPOSITION
PANICUM CLANDESTINUM	DEERTONGUE	13%
CAREX VULPENOIDEA	FOX SEDGE	10%
ELYMUS VIRGINICUS	VIRGINIA WILDRYE	8%
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	8%
ELMUS RIPARIUS	RIVERBANK WILDRYE	7%
SORGHASTRUM MUTANS	INDIANGRASS	7%
CHAMAECRISTA FASCICULATA	PARTRIDGE PEA	6%
CORNUS ANOMUM	SILKY DOGWOOD	6%
ANDROPOGON GERARDII	BIG BLUESTEM	5%
PANICUM VIRGATUM	SWITCHGRASS	4%
RUBROCKA HIRTA	BLACKEYED SUSAN	3%
BAPTISIA AUSTRALIS	BLUE O INDO SO	3%
VERBENA HASTATA	BLUE VERVAIN	3%
VIBURNUM DENTATUM	ARROWWOOD	2%
MONARDA PUNCTATA	SPOTTED BEEBALM	2%
VERNONIA GIGANTEA	GIANT IRONWEED	2%
EUPATORIUM PERFOOLIATUM	BONESET	2%
JUNCUS EFFUSUS	SOFT RUSH	2%
HELIOPSIS HELIANTHOIDES	OXEYE SUNFLOWER	2%
EUTHAMIA GRAMMIFOLIA	GRASSLEAF GOLDENROD	1%
PARTHENIUM INTEGRIFOLIUM	WILD QUININE	1%
LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	1%
HELIENIUM AUTUMNALE	COMMON SNEEZEWEED	1%

**NOTES:**  
 1. THIS MIX WILL BE APPLIED (SEEDED AND MULCHED) OVER ANY EXPOSED GROUND SURFACE WITHIN ZONE 1 AND ZONE 2 OF THE RESTORED FORESTED RIPARIAN BUFFER.  
 2. THIS MIX IS PREPARED BY ERNST CONSERVATION SEED. A SUITABLE ALTERNATIVE MAY BE USED BASED UPON APPROVAL BY THE ENGINEER OR REPRESENTATIVE.

**FLOOD PLAIN MIX (ERNMX-154)**  
 APPLICATION RATE: 15 LBS PER ACRE OR 1/3 - 1/2 LB PER 1,000 SQUARE FEET

SCIENTIFIC NAME	COMMON NAME	PERCENT COMPOSITION
ELMUS VIRGINICUS	VIRGINIA WILDRYE	20%
CAREX VULPENOIDEA	FOX SEDGE	20%
PANICUM CLANDESTINUM	DEERTONGUE	14%
SORGHASTRUM MUTANS	INDIANGRASS	10%
ANDROPOGON GERARDII	BIG BLUESTEM	10%
PANICUM VIRGATUM	SWITCHGRASS	5%
CAREX CRINITA	FRINGED (HOODING) SEDGE	4%
HELIENIUM AUTUMNALE	COMMON SNEEZEWEED	3%
VERBENA HASTATA	BLUE VERVAIN	3%
HELIOPSIS HELIANTHOIDES	OXEYE SUNFLOWER	2%
EUPATORIUM PERFOOLIATUM	BONESET	2%
ASTER FULVICUS	PURPLESTEM ASTER	2%
ASCLEPIAS INCARNATA	SWAMP MILKWEED	1%
LUDWIGIA ALTERNIFOLIA	SEEDBOX	1%
MONARDA PUNCTATA	SPOTTED BEEBALM	1%
EUTHAMIA GRAMMIFOLIA	GRASSLEAF GOLDENROD	1%

**NOTES:**  
 1. THIS MIX WILL BE APPLIED (SEEDED AND MULCHED) OVER ANY EXPOSED GROUND SURFACE WITHIN THE RESTORED NON-FORESTED RIPARIAN BUFFER.  
 2. THIS MIX IS PREPARED BY ERNST CONSERVATION SEED. A SUITABLE ALTERNATIVE MAY BE USED BASED UPON APPROVAL BY THE ENGINEER OR REPRESENTATIVE.

**TABLE 2 - RECOMMENDED NATIVE TREE, SHRUB AND LIVE STAKE SPECIES**

**ZONE 1 (50 FEET WIDE)**

SCIENTIFIC NAME	COMMON NAME	PLANT FORM	SPACING (FEET)	SIZE / CONTAINER
ACER SACCHARUM	SUGAR MAPLE	TREE	12	#1
BETULA ALLEGANIENSIS	YELLOW BIRCH	TREE	12	#1
BETULA LENTA	BLACK BIRCH	TREE	12	#1
LIRIODENDRON TULIPIFERA	TULIP POPLAR	TREE	12	#1
QUERCUS ALBA	WHITE OAK	TREE	12	#1
QUERCUS RUBRA	RED OAK	TREE	12	#1
QUERCUS VELUTINA	BLACK OAK	TREE	12	#1
PINUS STROBUS	WHITE PINE	TREE	12	#1
TSUGA CANADENSIS	EASTERN HEMLOCK	TREE	12	#1

**NOTES:**  
 1. IF EXISTING FORESTED RIPARIAN BUFFER IS LESS THAN 50 FEET WIDE, NATIVE TREES SHOULD BE PLANTED TO THE EXTENT OF THE EXISTING FORESTED RIPARIAN BUFFER.  
 2. USE 12-FOOT SPACING FOR ALL TREES AND SHRUBS.

**ZONE 2 (50 TO 250 FEET WIDE)**

SCIENTIFIC NAME	COMMON NAME	PLANT FORM	SPACING (FEET)	SIZE / CONTAINER
ACER SACCHARUM	SUGAR MAPLE	TREE	12	#1
BETULA ALLEGANIENSIS	YELLOW BIRCH	TREE	12	#1
BETULA LENTA	BLACK BIRCH	TREE	12	#1
LIRIODENDRON TULIPIFERA	TULIP POPLAR	TREE	12	#1
QUERCUS ALBA	WHITE OAK	TREE	12	#1
QUERCUS RUBRA	RED OAK	TREE	12	#1
QUERCUS VELUTINA	BLACK OAK	TREE	12	#1
PINUS STROBUS	WHITE PINE	TREE	12	#1
TSUGA CANADENSIS	EASTERN HEMLOCK	TREE	12	#1
CORNUS SP.	DOGWOOD	SHRUB	12	#1
GAYLUSSACIA SP.	HUCKLEBERRY	SHRUB	12	#1
KALMA LATIFOLIA	MOUNTAIN LAUREL	SHRUB	12	#1
LINDERA BENCOKI	SPIGEBUSH	SHRUB	12	#1
RHODODENDRON SP.	RHODODENDRON	SHRUB	12	#1
VACINIUM SP.	BLUEBERRY	SHRUB	12	#1
VIBURNUM SP.	ARROWWOOD	SHRUB	12	#1

**LIVE STAKES**

SCIENTIFIC NAME	COMMON NAME	PLANT FORM	SPACING (FEET)
SALIX SP.	WILLOW	LIVE STAKE	2
CORNUS SP.	DOGWOOD	LIVE STAKE	2

**NOTES:**  
 1. LIVE STAKES SHOULD BE PLANTED ONLY ALONG WATER BODY BANKS WITH EXISTING WOODY VEGETATION.  
 2. LIVE STAKES SHOULD BE PLANTED IN THE DORMANT SEASON BETWEEN NOVEMBER AND APRIL. ROOTED CUTTINGS OR CONTAINERIZED PLANTS OF SALIX AND CORNUS SPECIES SHOULD BE PLANTED IN PLACE OF LIVE STAKES BETWEEN MAY AND OCTOBER.

**UPLANDS PLANT SPECIES SEED MIX AND COMPOSITION FOR RESTORATION ACTIVITIES (PERMANENT REVEGETATION) (COVERS AREAS OF UPLAND IMPACTS)**

SPECIES	APPLICATION RATES (LBS/AC)	APPLICATION DATES
TURF TYPE TALL FESCUE (BLEND OF 3 CULTIVARS)	200	MARCH 1 - AUGUST 14
CREeping RED FESCUE	200	AUGUST 15 - OCTOBER 15
FERTILIZER/SOIL SUPPLEMENT: AGRICULTURAL GRADE LIMESTONE	IN ACCORDANCE WITH SOIL TEST RESULTS	PRIOR TO SEEDING
FERTILIZER	500 (11 LBS/1000 SQ. FT.) OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES	PRIOR TO SEEDING

**UPLANDS PLANT SPECIES SEED MIX AND COMPOSITION FOR RESTORATION ACTIVITIES (TEMPORARY REVEGETATION) (COVERS AREAS OF UPLAND IMPACTS)**

SPECIES	APPLICATION RATES (LBS/AC)	APPLICATION DATES
PERENNIAL RYEGRASS	100	MARCH 1 - OCTOBER 1
WINTER CEREAL RYE	112	AUGUST 1 - NOVEMBER 15
FERTILIZER/SOIL SUPPLEMENT: AGRICULTURAL GRADE LIMESTONE	IN ACCORDANCE WITH SOIL TEST RESULTS	PRIOR TO SEEDING
FERTILIZER	500 (11 LBS/1000 SQ. FT.) OF 10-10-10 OR EQUIVALENT WITH 50% WATER INSOLUBLE NITROGEN UNLESS SOIL TEST INDICATES OTHERWISE AND INCORPORATED INTO THE SURFACE 4 INCHES	PRIOR TO SEEDING

**NOTES:**  
 1. NO HAY OR STRAW MULCH SHALL BE PLACED ON WATERBODY BANKS. AT A MINIMUM, ALL WATERBODY BANKS SHALL BE COVERED WITH AN EROSION CONTROL BLANKET. IN ADDITION, ONLY STRAW MULCH (AND NOT HAY MULCH) SHALL BE USED IN AREAS ADJACENT TO WETLANDS.  
 2. IF A TEMPORARY SEED MIX IS UTILIZED PRIOR TO A PERMANENT SEED MIX, A PERMANENT SEED MIX SHALL BE APPLIED THE FOLLOWING GROWING SEASON.

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
 STANDARD ENVIRONMENTAL DETAIL

VEGETATION RESTORATION  
 SHRUB INSTALLATION

NEW JERSEY  
 Williams  
 GAS PIPELINE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC  
 STANDARD ENVIRONMENTAL DETAIL

VEGETATION RESTORATION - 2  
 WATER BODIES WITH NON-FORESTED RIPARIAN BUFFER

NEW JERSEY  
 Williams  
 GAS PIPELINE

NO.	DATE	BY	REVISION DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
2	06/05/18	PPH	SUBMITTED TO NJDEP	60515775	JAC	PPH

KEVIN MCKEON, P.E.

REVISIONS

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC.  
 SOIL EROSION & SEDIMENT CONTROL PLAN  
 NORTHEAST SUPPLY ENHANCEMENT PROJECT  
 PROPOSED 26" MADISON LOOP  
 M.P. 8.57 TO M.P. 12.00  
 MIDDLESEX COUNTY, NEW JERSEY

Williams  
 GAS PIPELINE

DRAWN BY: ERL	DATE: 06/15/17	ISSUED FOR BID: TBD	SCALE: NTS
CHECKED BY: PPH	DATE: 06/15/17	ISSUED FOR CONSTRUCTION: TBD	REVISION: 2
APPROVED BY: KDM	DATE: 06/15/17	DRAWING NUMBER: 26-0100-80-28-D	SHEET 17
W.O. 60515775			OF 21

Drawn By: & Date/Time: hoesse, May 30, 2018 - 12:00pm  
 Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\400-Technical\400-CAD\E&S\03 - Madison Detail Sheets.dwg







UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN (CONT'D)

VII. POST-CONSTRUCTION ACTIVITIES AND REPORTING

A. MONITORING AND MAINTENANCE

1. CONDUCT FOLLOW-UP INSPECTIONS OF ALL DISTURBED AREAS, AS NECESSARY, TO DETERMINE THE SUCCESS OF REVEGETATION AND ADDRESS LANDOWNER CONCERNS. AT A MINIMUM, CONDUCT INSPECTIONS AFTER THE FIRST AND SECOND GROWING SEASONS.
2. REVEGETATION IN NON-AGRICULTURAL AREAS SHALL BE CONSIDERED SUCCESSFUL IF UPON VISUAL SURVEY THE DENSITY AND COVER OF NON-NUISANCE VEGETATION ARE SIMILAR IN DENSITY AND COVER TO ADJACENT UNDISTURBED LANDS. IN AGRICULTURAL AREAS, REVEGETATION SHALL BE CONSIDERED SUCCESSFUL WHEN UPON VISUAL SURVEY, CROP GROWTH AND VIGOR ARE SIMILAR TO ADJACENT UNDISTURBED PORTIONS OF THE SAME FIELD, UNLESS THE EASEMENT AGREEMENT SPECIFIES OTHERWISE. CONTINUE REVEGETATION EFFORTS UNTIL REVEGETATION IS SUCCESSFUL.
3. MONITOR AND CORRECT PROBLEMS WITH DRAINAGE AND IRRIGATION SYSTEMS RESULTING FROM PIPELINE CONSTRUCTION IN AGRICULTURAL AREAS UNTIL RESTORATION IS SUCCESSFUL.
4. RESTORATION SHALL BE CONSIDERED SUCCESSFUL IF THE RIGHT-OF-WAY SURFACE CONDITION IS SIMILAR TO ADJACENT UNDISTURBED LANDS, CONSTRUCTION DEBRIS IS REMOVED (UNLESS OTHERWISE APPROVED BY THE LANDOWNER OR LAND MANAGING AGENCY PER SECTION V.A.6), REVEGETATION IS SUCCESSFUL, AND PROPER DRAINAGE HAS BEEN RESTORED.
5. ROUTINE VEGETATION MOWING OR CLEARING OVER THE FULL WIDTH OF THE PERMANENT RIGHT-OF-WAY IN UPLANDS SHALL NOT BE DONE MORE FREQUENTLY THAN EVERY 3 YEARS. HOWEVER, TO FACILITATE PERIODIC CORROSION/LEAK SURVEYS, A CORRIDOR NOT EXCEEDING 10 FEET IN WIDTH CENTERED ON THE PIPELINE MAY BE CLEARED AT A FREQUENCY NECESSARY TO MAINTAIN THE 10-FOOT CORRIDOR IN AN HERBACEOUS STATE. IN NO CASE SHALL ROUTINE VEGETATION MOWING OR CLEARING OCCUR DURING THE MIGRATORY BIRD NESTING SEASON BETWEEN APRIL 15 AND AUGUST 1 OF ANY YEAR UNLESS SPECIFICALLY APPROVED IN WRITING BY THE RESPONSIBLE LAND MANAGEMENT AGENCY OR THE U.S. FISH AND WILDLIFE SERVICE.
6. EFFORTS TO CONTROL UNAUTHORIZED OFF-ROAD VEHICLE USE, IN COOPERATION WITH THE LANDOWNER, SHALL CONTINUE THROUGHOUT THE LIFE OF THE PROJECT. MAINTAIN SIGNS, GATES, AND PERMANENT ACCESS ROADS AS NECESSARY.

B. REPORTING

1. THE PROJECT SPONSOR SHALL MAINTAIN RECORDS THAT IDENTIFY BY MILEPOST:
  - A. METHOD OF APPLICATION, APPLICATION RATE, AND TYPE OF FERTILIZER, PH MODIFYING AGENT, SEED, AND MULCH USED;
  - B. ACREAGE TREATED;
  - C. DATES OF BACKFILLING AND SEEDING;
  - D. NAMES OF LANDOWNERS REQUESTING SPECIAL SEEDING TREATMENT AND A DESCRIPTION OF THE FOLLOW-UP ACTIONS;
  - E. THE LOCATION OF ANY SUBSURFACE DRAINAGE REPAIRS OR IMPROVEMENTS MADE DURING RESTORATION; AND
  - F. ANY PROBLEM AREAS AND HOW THEY WERE ADDRESSED.
2. THE PROJECT SPONSOR SHALL FILE WITH THE SECRETARY QUARTERLY ACTIVITY REPORTS DOCUMENTING THE RESULTS OF FOLLOW-UP INSPECTIONS REQUIRED BY SECTION VII.A.1; ANY PROBLEM AREAS, INCLUDING THOSE IDENTIFIED BY THE LANDOWNER, AND CORRECTIVE ACTIONS TAKEN FOR AT LEAST 2 YEARS FOLLOWING CONSTRUCTION. THE REQUIREMENT TO FILE QUARTERLY ACTIVITY REPORTS WITH THE SECRETARY DOES NOT APPLY TO PROJECTS CONSTRUCTED UNDER THE AUTOMATIC AUTHORIZATION, PRIOR NOTICE, OR ADVANCED NOTICE PROVISIONS IN THE FERCS REGULATIONS.

THIS EXPANSION PROJECT IS REGULATED BY THE U.S. DEPARTMENT OF ENERGY, FEDERAL ENERGY REGULATORY COMMISSION (FERC), IN ADDITION TO STATE AND LOCAL REQUIREMENTS. THIS EROSION AND SEDIMENT CONTROL PLAN INCLUDES THESE MITIGATION MEASURES FOR PIPELINE CONSTRUCTION SPECIFIED BY THE FERCS IN ITS PLAN AND PROCEDURES DOCUMENTS, UPLAND EROSION CONTROL, REVEGETATION, AND MAINTENANCE PLAN MAY 2013 AND WETLAND AND WATERBODY CONSTRUCTION AND MITIGATION PROCEDURES, MAY 2013.

Drawn By: & Date/Time: hoesse, May 30, 2018 12:00pm  
Drawing Location & Name: S:\Projects\ENV\60515775\_NESE\_ML\_ES\400-Technical\400-CAD\E&S\04 - Madison-E&S P&P.dwg



KEVIN MCKEON, P.E.  
NEW JERSEY  
PROFESSIONAL ENGINEER NO GE32586

REVISIONS						
NO.	DATE	BY	DESCRIPTION	W.O. NO.	CHK.	APP.
0	06/15/17	ERL	SUBMITTED TO FREEHOLD SOIL CONSERVATION DISTRICT	60515775	PPH	KDM
1	05/07/18	SMR	ISSUED FOR CLIENT REVIEW	60515775	JAC	PPH
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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC. SOIL EROSION & SEDIMENT CONTROL PLAN NORTHEAST SUPPLY ENHANCEMENT PROJECT PROPOSED 26" MADISON LOOP M.P. 8.57 TO M.P. 12.00 MIDDLESEX COUNTY, NEW JERSEY				
DRAWN BY: ERL CHECKED BY: PPH APPROVED BY: KDM W.O. 60515775	DATE: 06/15/17 DATE: 06/15/17 DATE: 06/15/17	ISSUED FOR BID: TBD ISSUED FOR CONSTRUCTION: TBD DRAWING NUMBER: 26-0100-80-28-D	SCALE: NTS REVISION: 2 SHEET 21 OF 21	