ATLANTIC COAST PIPELINE, LLC ATLANTIC COAST PIPELINE

and

DOMINION ENERGY TRANSMISSION, INC. SUPPLY HEADER PROJECT

Implementation Plan

EC30 Attachment 1

Site-Specific Crossing Plans for Major Waterbodies

| LEGEND 2500 C | | |
|---|---------------------------------------|---|
| P2:22:22:22:23 TOPSOL SEGRAGATION AREA 2450 P2:22:22:23:23:10 TOPSOL SEGRAGATION AREA 2450 P2:22:22:23:23:10 CONSTURB 2450 P2:22:22:23:23:10 CONSTURB 2450 P2:22:23:23:10 CONSTURB 2450 P2:23:23:23:23:10 CONSTURB 2400 P:23:23:23:23:23:20 CONSTURBANCE 2400 P:23:23:23:23:23:20 CONSOST FLITER SOCK 2350 P:23:23:23:23:23:20 CONSOST FLITER SOCK 2350 P:23:23:23:23:23:20 CONSOST FLITER SOCK 2350 P:23:23:23:23:23:23:23:23:23:23:23:23:23: | | 1 |
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| CONTOUR BSRF S230 SUPPORT PLACE SUPPORT PLACE SUPPORT PLACE SUPPORT PLACE SUPPORT SUPPOR | | |
| BSRF 2350 | | |
| 2390 300 301 302 302 3030 302 3030 303 304 305 305 305 305 30 | | |
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| TRENCH PLUG 2300 Mater Bar 2200 Mater Bar 2250 Mater Body # Dep Breaker 2250 WATER BODY # MPACT 2250 WATER BODY # TEMP.IMPACT 2200 WATER BODY ONSTRUCTION ENTRANCE 2200 WATER BODY CONSTRUCTION NOTES: 0.03 ACRES 1. CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM. 2000 2. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS, FLOW SHALL BE MAINTAINED AT ALL TIMES. 47 3. RIP RAP (OR OTHER NON-ERODIBLE MATERNALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK. 105CHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. 5. STABILIZE WATER WATERBODY BANKS TO PRE-CONSTRUCTION ACTIVITIES. 8 6. RETURN ALL WATERD ANKS TO PRE-CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE EONITARY HIGH WATER MARK SHOULD BE AVOIDED. 7. INSTALL TRENCH PLUGS AND WATERBARS AS DEPICTED. ON THIS PLAN. 8. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO A CONFRUCTION. 8. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO A CONFRUCTION. 900 FLOK OPOLITES INCOMPLETION OF PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN. 8. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO A CHIEVE NEGATIVE BUOYANCY. <t< td=""><td></td><td></td></t<> | | |
| WATER BAR 2300 A TEMPORARY SLOPE BREAKER ROCK CONSTRUCTION ENTRANCE 2250 WATERBODY IMPACT 2250 WATERBODY # TEMP.IMPACT PERMANENT IMPACT 2250 WATERBODY # TEMP.IMPACT PERMANENT 0.03 ACRES WATERBODY CONSTRUCTION NOTES: 42 1. CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM. 2. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS. FLOW SHALL BE MAINTAINED AT ALL TIMES. 3. RIP RAP (OR OTHER NON-ERODIBLE MATERIALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK. 4. DISCHARCE ALL WATER THROUGH AN APPROVED SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION ACTIVITIES. 6. RETURN ALL WATER MARK SHOULD BE AVOILD BE AVOILDED. 7. INSTALL TRENCH PLUGS AND WATERBARS AS DIRCITED BY THE APROVED DEROSION AND SEDIMENT FARPROYED DEROSION AND SEDIMENTATION CONTROL PLAN ON BOTH SIDES OF THE WATERBARY SAD DEPICTED. ON THIS PLAN. 8. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO ACHIEVE NEGATIVE BUCYANCY. 7. RIVET RAFFIC WILL NOT BE IMPENDED DURING CONSTRUCTION. 10. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM WILL BE RELOCATED TO OPROSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE | | |
| TEMPORARY SLOPE BREAKER 2250 WATERBODY IMPACT 2200 WATERBODY IMPACT 2200 WATERBODY CONSTRUCTION NOTES: 2000 ACRES 1 CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS, FLOW SHALL BE MAINTAINED AT ALL TIMES. 241 3 RIP RAP (OR OTHER NON-ERODIBLE MATERALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK. 2000 4.1 DISCHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. 35 5. STABILIZE WATER WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE CONSTRUCTION CONTROL PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN. 30 9. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER ROSSING TO ACHEVE NEGATIVE BUOYANCY. 30 9. RIVER TRAFFIC WILL NOT BE IMPENDED DURING CONSTRUCTION. 30 10. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM, THE COFFERDAM WILL BE RELOCATED TO OPPOSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE CONSTRUCTION. 11. THE TEMPORARY BRIDGE WILL UTILIZE IN-STREAM SUPPORTS. TIME OF YEAR RESTRICTION | | |
| WATERBODY IMPACT 2250 WATERBODY IMPACT 0.75 ACRES 0.00 ACRES 2200 WATERBODY IMPACT 0.75 ACRES 0.00 ACRES 2200 WATERBODY ONSTRUCTION NOTES: 1. CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM. 241 2. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS, FLOW SHALL BE MAINTAINED AT ALL TIMES. 41 3. RIP RAP (OR OTHER NON-ERODIBLE MATERIARS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE OORDINARY HIGH WATER MARK. 10 SCHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. 5. STABILIZE WATER WATER TO PROUGH NA APPROVED SEDIMENT TRAPPING DEVICE. 5. STABIL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE CONSTRUCTION CONTOUR PLAN AND AS DEPICTED. ON THIS PLAN. 8. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO A STABLE SOF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN. 9. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO ACCHEVE BUGANCY. 9. RIVER TRAFFIC WILL NOT BE IMPENDED DUNING CONSTRUCTION. 10. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM THE COFFERDAM WILL BE RELOCATED TO OPROSITE SIDE OF WATERERODY FOR COMPLETION OF PIPELINE CONSTRUCTION. < | | |
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| 0.75 ACRES 0.00 ACRES WATERBODY IMPACT 2200 WATERBODY CONSTRUCTION NOTES: 47 1. CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM. 47 2. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS. FLOW SHALL BE MAINTAINED AT ALL TIMES. 47 3. RIP RAP (OR OTHER NON-ERODIBLE MATERIALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM. ABOVE THE ORDINARY HIGH WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. 47 5. STABILIZE WATER ROW WATER MARK. 1000000000000000000000000000000000000 | | |
| WATERBODY IMPACT 2200 WATERBODY CONSTRUCTION NOTES: 43 1. CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM. 43 2. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS. FLOW SHALL BE MAINTAINED AT ALL TIMES. 43 3. RIP RAP (OR OTHER NON-ERODIBLE MATERIALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK. 10 4. DISCHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. 5. 5. STABILIZE WATER WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION ACTIVITIES. •••• 6. RETURN ALL WATERBODY BANKS TO PRE-CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE ORDINARY HIGH WATER MARK SHOULD BE AVOIDED. •••• 7. INSTALL TRENCH PLUGS AND WATERBARS AS DIRECTED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO ACHIEVE NEGATIVE BUOYANCY. 8. PIPELINE SHALL BE WEIGHTED WITH CONSTRUCTION. 10. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM, HE COFFERDAM WILL BE RELOCATED TO OPPOSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE CONSTRUCTION. 11. THE TEMPORARY BRIDGE WILL UTILIZE IN-STREAM SUPPORTS. TIME OF YEAR RESTRICTIONS (TOYRS) | | |
| WATERBODY IMPACT WATERBODY CONSTRUCTION NOTES: 43 CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS. FLOW SHALL BE MAINTAINED AT ALL TIMES. RIP RAP (OR OTHER NON-ERODIBLE MATERIALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK. DISCHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. STABILIZE WATER WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE CONSTRUCTION CONTOLRS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE CONSTRUCTION CONTROL PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO ACHIEVE NEGATIVE BUOYANCY. RIVER TRAFFIC WILL NOT BE IMPENDED DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION WILL BE RELOCATED TO OPPOSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM, THE COFFERDAM WILL BE RELOCATED TO OPPOSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE CONSTRUCTION. TIME OF YEAR RESTRICTIONS (TOYRS) | | |
| CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS. FLOW SHALL BE MAINTAINED AT ALL TIMES. RIP RAP (OR OTHER NON-ERODIBLE MATERIALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK. DISCHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. STABIL/ZE WATER WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION ACTIVITIES. RETURN ALL WATERBODY BANKS TO PRE-CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR, FILL BELOW THE ORDINARY HIGH WATER MARK SHOULD BE AVOIDED. INSTALL TRENCH PLUGS AND WATERBARS AS DIRECTED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO ACHIEVE NEGATIVE BUOYANCY. RIVER TRAFFIC WILL NOT BE IMPENDED DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM, THE COFFERDAM WILL BE RELOCATED TO OPPOSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE CONSTRUCTION. TIME OF YEAR RESTRICTIONS (TOYRS) | | |
| A COFFERDAM. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS. FLOW SHALL BE MAINTAINED AT ALL TIMES. RIP RAP (OR OTHER NON-ERODIBLE MATERIALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK. DISCHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. STABILIZE WATER WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION ACTIVITIES. RETURN ALL WATER THROUGH SONT O A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE ORDINARY HIGH WATER MARK SHOULD BE AVOIDED. INSTALL TRENCH PLUGS AND WATERBARS AS DIRECTED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO ACHIEVE NEGATIVE BUOYANCY. RIVER TRAFFIC WILL NOT BE IMPENDED DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM, THE COFFERDAM WILL BE RELOCATED TO OPPOSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION WITHIN THE TEMPORARY BRIDGE WILL UTILIZE IN-STREAM SUPPORTS. TIME OF YEAR RESTRICTIONS (TOYRS) | 97+35 | |
| IN-STREAM SUPPORTS. TIME OF YEAR RESTRICTIONS (TOYRS) | STOCKPILE AREA F 12" OF STREAM BEI | |
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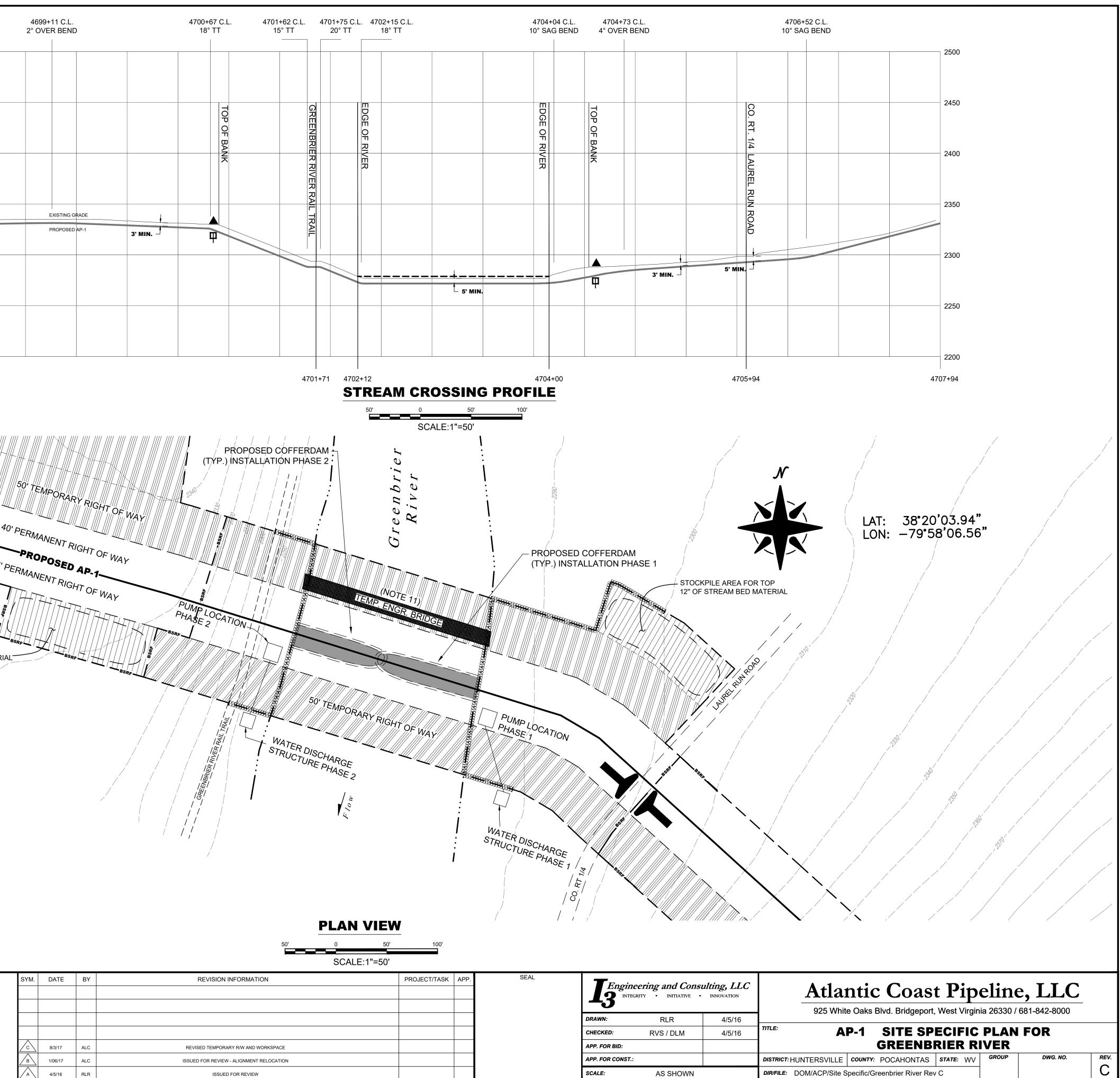
REFERENCE

ELEVATION DATA FROM THE USGS GIS DATA CLEARING HOUSE.

PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

STREAM AND WETLAND DATA COLLECTED BY NATIONAL RESOURCE GROUP, LLC.

MAPPING DATUM-UTM17-NAD 83 CONTOUR INTERVAL - 10 FEET



DIR/FILE: DOM/ACP/Site Specific/Greenbrier River Rev C

| DATE | BY | REVISION INFORMATION | PROJECT/TASK | APP. | SEAL | | eering and Cons |
|---------|-----|--|--------------|------|------|------------------|-----------------|
| | | | | | | 3 | |
| | | | | | | DRAWN: | RLR |
| | | | | | | CHECKED: | RVS / DLM |
| 8/3/17 | ALC | REVISED TEMPORARY R/W AND WORKSPACE | | | | APP. FOR BID: | |
| 1/06/17 | ALC | ISSUED FOR REVIEW - ALIGNMENT RELOCATION | | | | APP. FOR CONST.: | |
| 4/5/16 | RLR | ISSUED FOR REVIEW | | | | SCALE: | AS SHOWN |

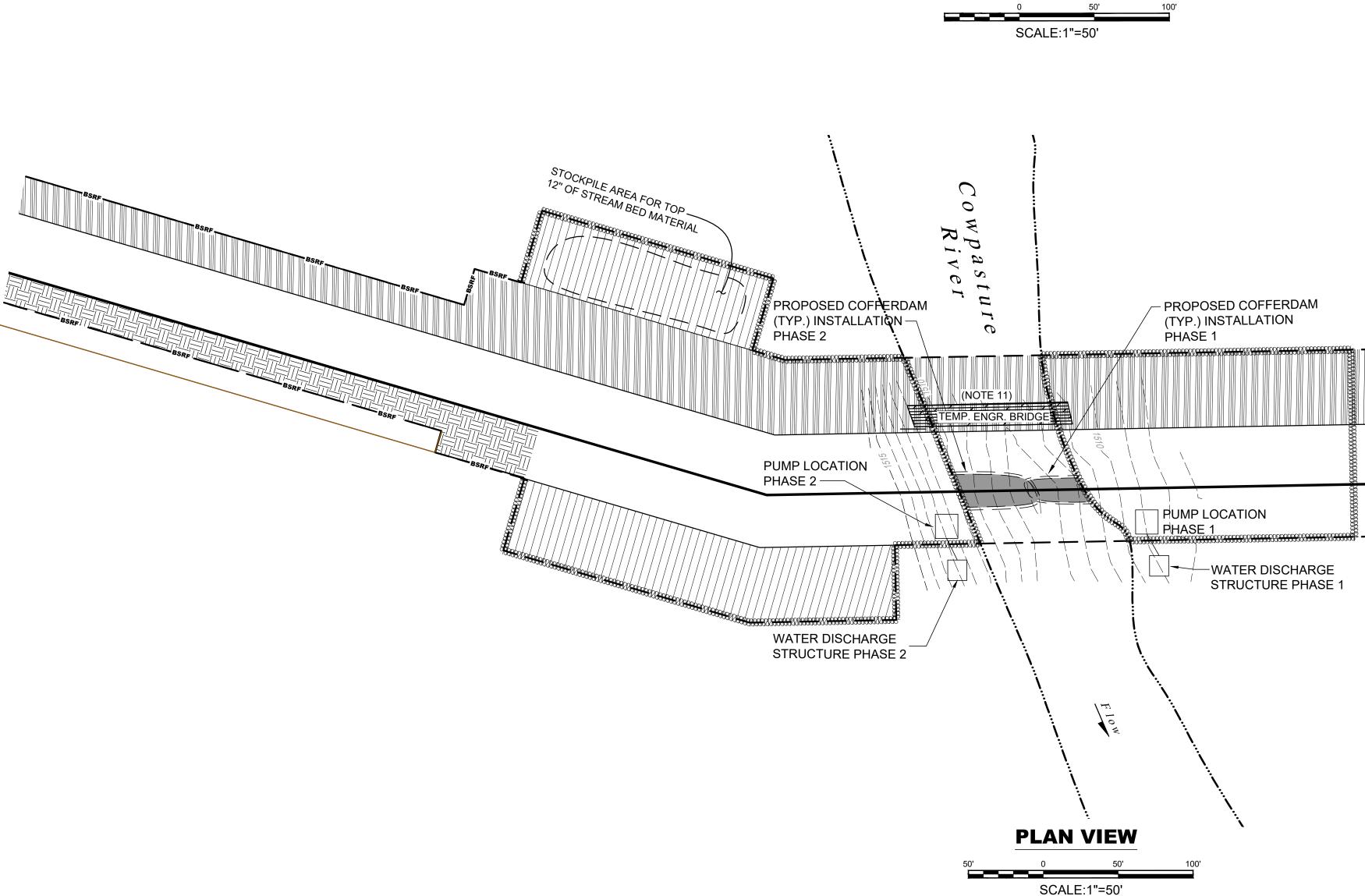
LEGEND _____ PERMANENT RIGHT-OF-WAY TEMPORARY RIGHT-OF-WAY TOPSOIL SEGRAGATION AREA EXTRA WORK SPACE ••••••••• WETLAND DO NOT DISTURB ---- STREAM — — LIMITS OF DISTURBANCE --100 -- CONTOUR -------------------------------BSRF ROCK CONSTRUCTION ENTRANCE Ш TRENCH PLUG WATER BAR Δ TEMPORARY SLOPE BREAKER WATERBODY IMPACT WATERBODY # TEMP. IMPACT PERMANENT IMPACT 0.00 ACRES 0.25 ACRES WATERBODY IMPACT WATERBODY CONSTRUCTION NOTES: 1. CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM. 2. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS. FLOW SHALL BE MAINTAINED AT ALL TIMES. 3. RIP RAP (OR OTHER NON-ERODIBLE MATERIALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK. 4. DISCHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE. 5. STABILIZE WATER WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION ACTIVITIES. 6. RETURN ALL WATERBODY BANKS TO PRE-CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE ORDINARY HIGH WATER MARK SHOULD BE AVOIDED. 7. INSTALL TRENCH PLUGS AND WATERBARS AS DIRECTED BY THE APPROVED EROSION AND

- DIRECTED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN.
- PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO ACHIEVE NEGATIVE BUOYANCY.
 RIVER TRAFFIC WILL NOT BE IMPENDED
- DURING CONSTRUCTION.
- 10. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM, THE COFFERDAM WILL BE RELOCATED TO OPPOSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE CONSTRUCTION.
- 11. THE TEMPORARY BRIDGE WILL UTILIZE IN-STREAM SUPPORTS.

TIME OF YEAR RESTRICTIONS (TOYRS)

ALL WORK MUST BE COMPLETED FROM MARCH 15 to JUNE 30 & MAY 15 to JULY 31

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REFERENCE

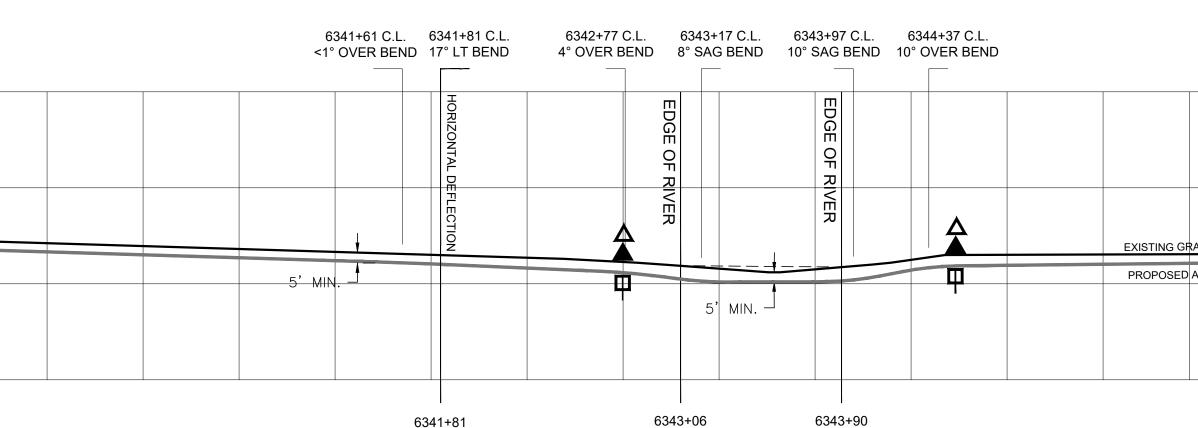
ELEVATION DATA PROVIDED BY GAI CONSULTANTS.

PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

STREAM AND WETLAND DATA COLLECTED BY NATIONAL RESOURCE GROUP, LLC.

MAPPING DATUM-UTM 17-NAD 83 CONTOUR INTERVAL - 1 FOOT & 40 FOOT

| SYM. | |
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STREAM CROSSING PROFILE

| DATE | BY REVISION INFORMATION | PROJECT/TASK | APP. | SEAL | | |
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| | | | | | | |
| | | | | | DRAWN: | RLR |
| | | | | | CHECKED: | RVS / DLM |
| | | | | | APP. FOR BID: | |
| 8/3/17 | ALC REVISED TEMPORARY R/W AND WORKSPACE | | | | APP. FOR CONST.: | |
| 11/16/15 | RLR ISSUED FOR REVIEW | | | | SCALE: | AS SHOWN |
| | | | | | | |

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| | | | | Atl | antic | Coast | t Pipe | line. | LLC | |
| _M | 11/16 | | TITLE: | | t Main St. Cla | arksburg, West | Virginia 2630 | 1 / Phone: (3 | 804) 623-800 | - 1 |
| | | | DISTRIC | | | RIVER - | | | | REV. |

STATE: VA

COUNTY: BATH

DIR/FILE: DOM/ACP/Site Specific/Cowpasture Rev B

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LEGEND _____ PERMANENT RIGHT-OF-WAY TEMPORARY RIGHT-OF-WAY TOPSOIL SEGRAGATION AREA EXTRA WORK SPACE DO NOT DISTURB ---- STREAM — — LIMITS OF DISTURBANCE --100-- CONTOUR -------------------------BSRF ROCK CONSTRUCTION ENTRANCE \square TRENCH PLUG WATER BAR Δ TEMPORARY SLOPE BREAKER WATERBODY IMPACT WATERBODY # TEMP. IMPACT PERMANENT IMPACT 0.25 ACRES 0.00 ACRES

WATERBODY IMPACT

- WATERBODY CONSTRUCTION NOTES:
 1. CROSSING TO BE COMPLETED VIA THE DAM AND PUMP METHOD.
- 2. SUFFICIENT PUMPS TO MAINTAIN 1.5 TIMES THE FLOW PRESENT IN THE STREAM DURING CONSTRUCTION.
- 3. MAINTAIN ONE BACKUP PUMP ON SITE.
- 4. DAMS CONSTRUCTED WITH MATERIALS THAT PREVENT SEDIMENT AND OTHER POLLUTANTS FROM ENTERING THE WATERBODY (E.G. SANDBAGS OR CLEAN GRAVEL WITH PLASTIC LINER.
- 5. SCREENS SHALL BE INSTALLED ON PUMP INTAKES.
- 6. STREAMBED SCOUR PREVENTED AT PUMP DISCHARGE.
- 7. STABILIZE WATER WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM CONSTRUCTION ACTIVITIES.
- 8. RETURN ALL WATERBODY BANKS TO PRE-CONSTRUCTION CONTOURS OR TO A STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE ORDINARY HIGH WATER MARK SHOULD BE AVOIDED.
- 9. INSTALL TRENCH PLUGS AND WATERBARS AS DIRECTED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN.
- 10. PUMPS SHALL BE INSTALLED IN SECONDARY CONTAINMENT.
- 11. FUEL SHALL BE STORED IN SECONDARY CONTAINMENT AND AT LEAST 100 FEET FROM WATERBODY.
- 12. SEGREGATE TOP 12" OF STREAM BED MATERIAL AND STORE WITHIN APPROVED CONSTRUCTION WORKSPACE.
- 13. EQUIPMENT BRIDGE WILL BE CONSTRUCTED ACROSS STREAM CHANNEL IN A MANNER THAT WILL MAINTAIN UNRESTRICTED FLOW, PREVENT SOIL FROM ENTERING WATERBODY, AND WITH STAND THE HIGHEST FLOW EXPECTED TO OCCUR WHILE BRIDGE IS IN PLACE.
- 14. OPTION A (COFFERDAM) OR OPTION B (DAM & PUMP) WILL BE DETERMINED AT TIME OF CONSTRUCTION AND BASED ON SITE CONDITIONS.
- 15. PUMP LOCATIONS SHOULD BE SELECTED ON AS NEEDED BASIS BY CONTRACTOR. MULTIPLE LOCATIONS PROVIDED.
- 16. THE TEMPORARY ENGINEERED BRIDGE WILL UTILIZE IN-STREAM SUPPORTS.

TIME OF YEAR RESTRICTIONS (TOYRS)

ALL WORK MUST BE COMPLETED FROM MARCH 15 to JUNE 30 & MAY 15 to JULY 31

GENERAL NOTES AND COMMENTS:

REFERENCE

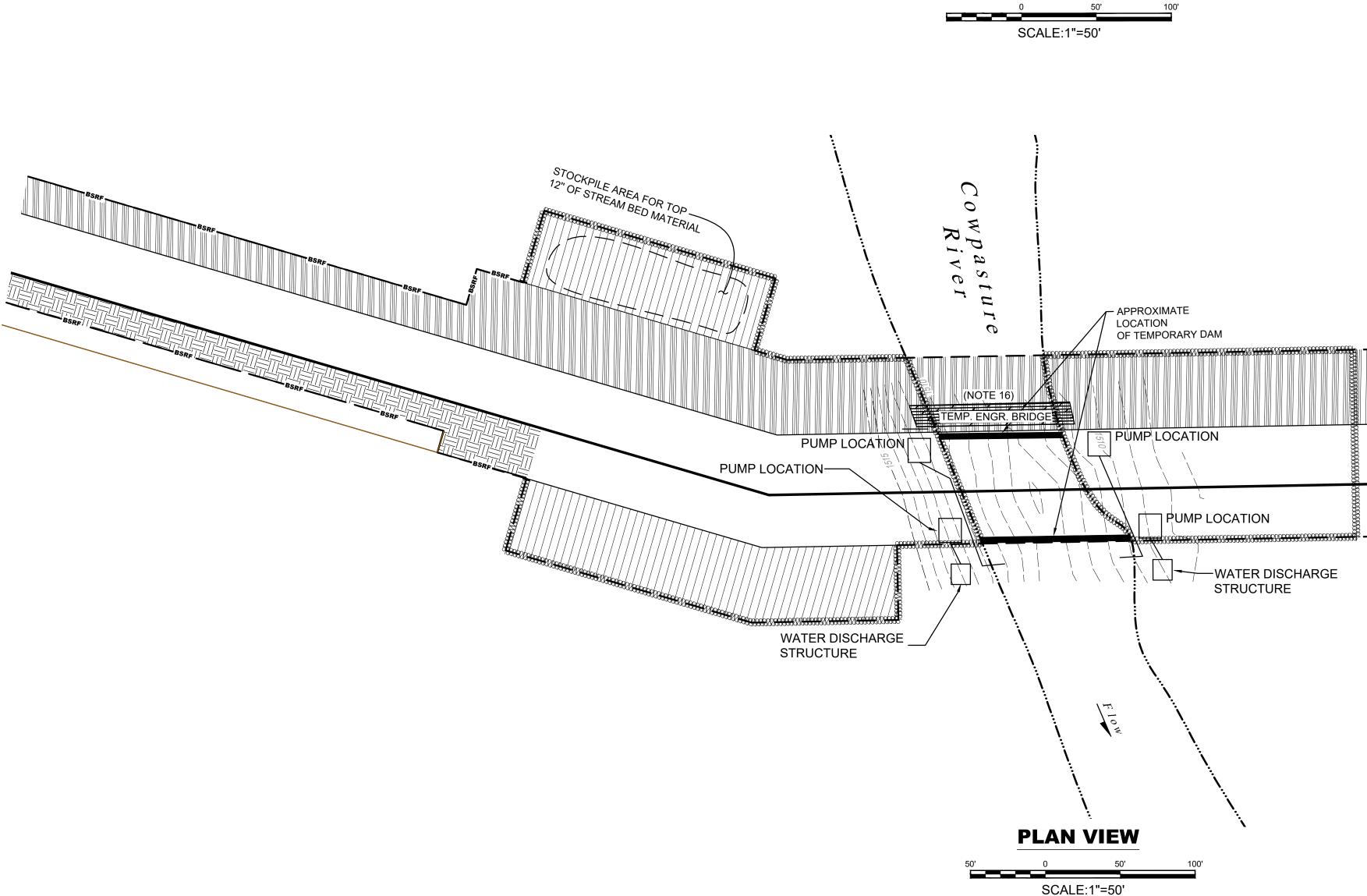
ELEVATION DATA PROVIDED BY GAI CONSULTANTS.

PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

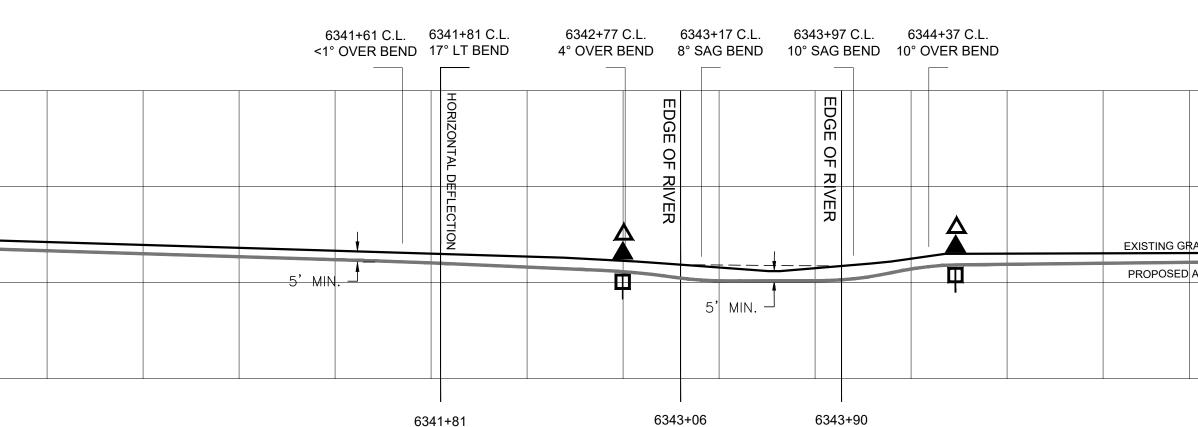
STREAM AND WETLAND DATA COLLECTED BY NATIONAL RESOURCE GROUP, LLC.

MAPPING DATUM-UTM 17-NAD 83 CONTOUR INTERVAL - 1 FOOT & 40 FOOT

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| 1000 | |
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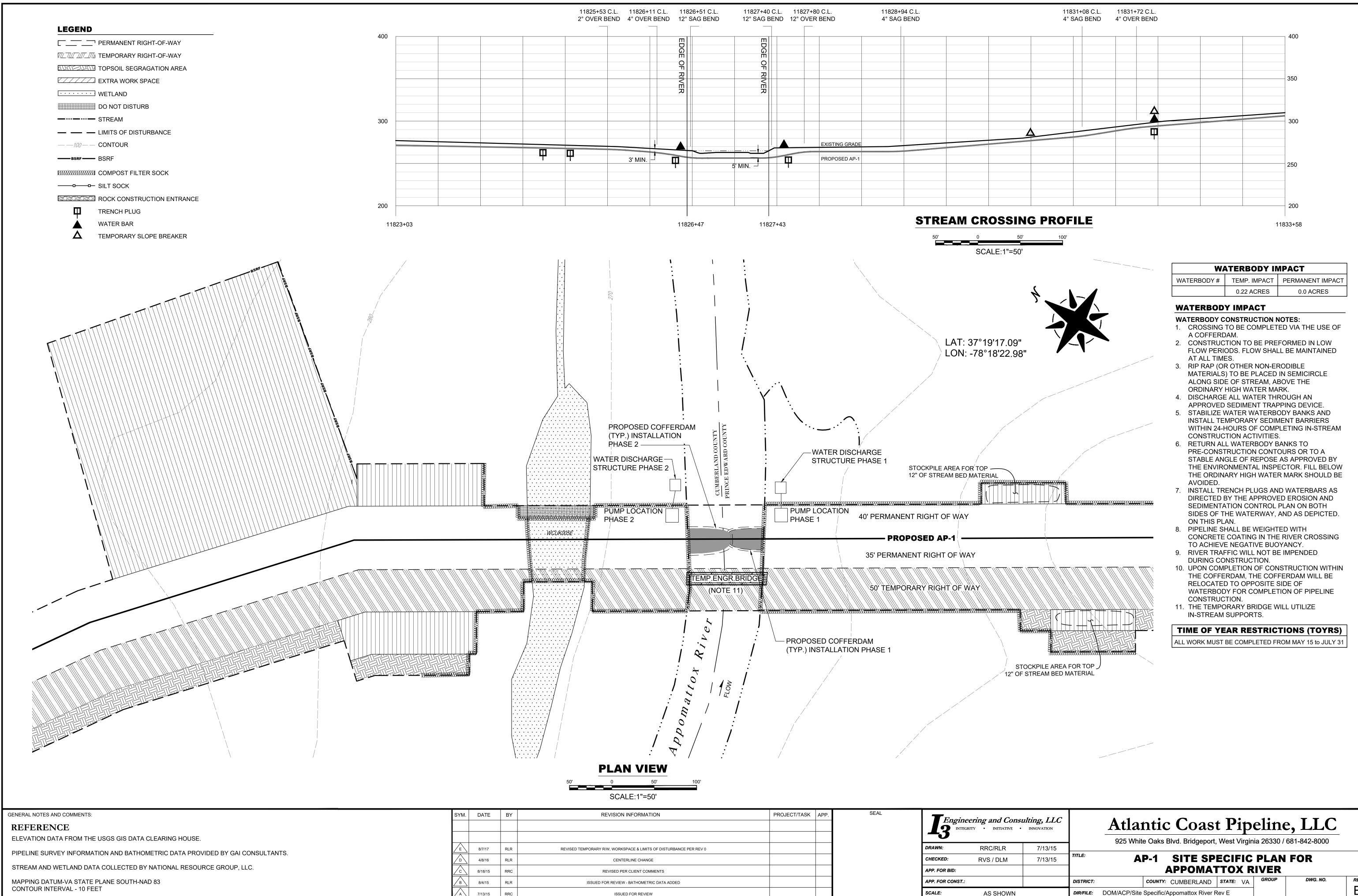
STREAM CROSSING PROFILE

| DATE | BY | REVISION INFORMATION | PROJECT/TASK | APP. | SEAL | | |
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| | | | | | | DRAWN: | RLR |
| | | | | | | CHECKED: | RVS / DLM |
| | | | | | | APP. FOR BID: | |
| 8/3/17 | ALC | REVISED TEMPORARY R/W AND WORKSPACE | | | | APP. FOR CONST.: | |
| 11/16/15 | RLR | ISSUED FOR REVIEW | | | | SCALE: | AS SHOWN |
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| | 16/16 16/16 DISTRI | COWPA | AP-1 | SITE SP | ECIFIC PLA OPTION B (| N FOR | |

DOM/ACP/Site Specific/Cowpasture Rev B

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| WATERBODY IMPACT | | | | | | |
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| WATERBODY # | TEMP. IMPACT | PERMANENT IMPACT | | | | |
| | 0.22 ACRES | 0.0 ACRES | | | | |
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| <i>Consulting, LLC</i> | | Atlantic Coast Pipeline, LLC | | | | | | | |
|------------------------|---------|---|---|------------|-------------------|-----------|---------------|--------------|------|
| | | | 925 White | e Oaks B | Slvd Bridgeport | West Vird | , 26330 vinia | 681-842-8000 | |
| LR | 7/13/15 | | 925 White Oaks Blvd. Bridgeport, West Virginia 26330 / 681-842-8000 | | | | | | |
| LM | 7/13/15 | AP-1 SITE SPECIFIC PLAN FOR APPOMATTOX RIVER | | | | | | | |
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| | | DISTRICT: | | COUNTY: | CUMBERLAND | STATE: V | GROUP | DWG. NO. | REV. |
| IOWN | | DIR/FILE: | DOM/ACP/Site S | Specific/A | ppomattox River R | lev E | | | E |

| <u> </u> | PERMANENT RIGHT-OF-WAY | | |
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| | TOPSOIL SEGRAGATION AREA | | |
| | EXTRA WORK SPACE | | |
| ••••• | WETLAND | | |
| | DO NOT DISTURB | | |
| | STREAM | | |
| | LIMITS OF DISTURBANCE | | |
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| BSRF ——— | BSRF | | |
| 2222222222222222222222222 | COMPOST FILTER SOCK | | |
| oo | SILT SOCK | | |
| ROCK CONSTRUCTION ENTRANCE | | | |
| | | | |
| Δ | TEMPORARY SLOPE BREAKER | | |

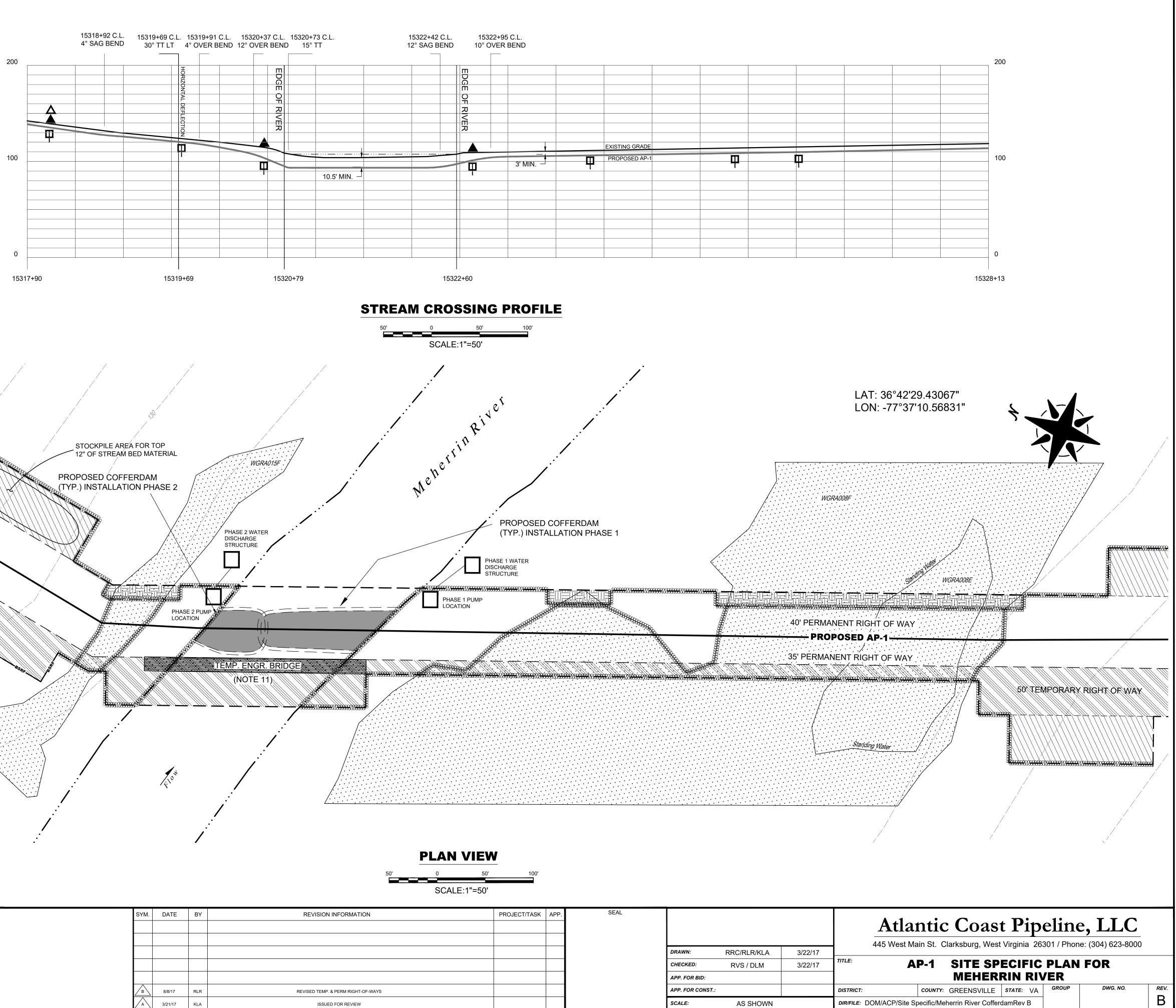
| WATERBODY # | TEMP. IMPACT | PERMANENT IMPACT | | | | |
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| | 0.37 ACRES | 0.0 ACRES | | | | |
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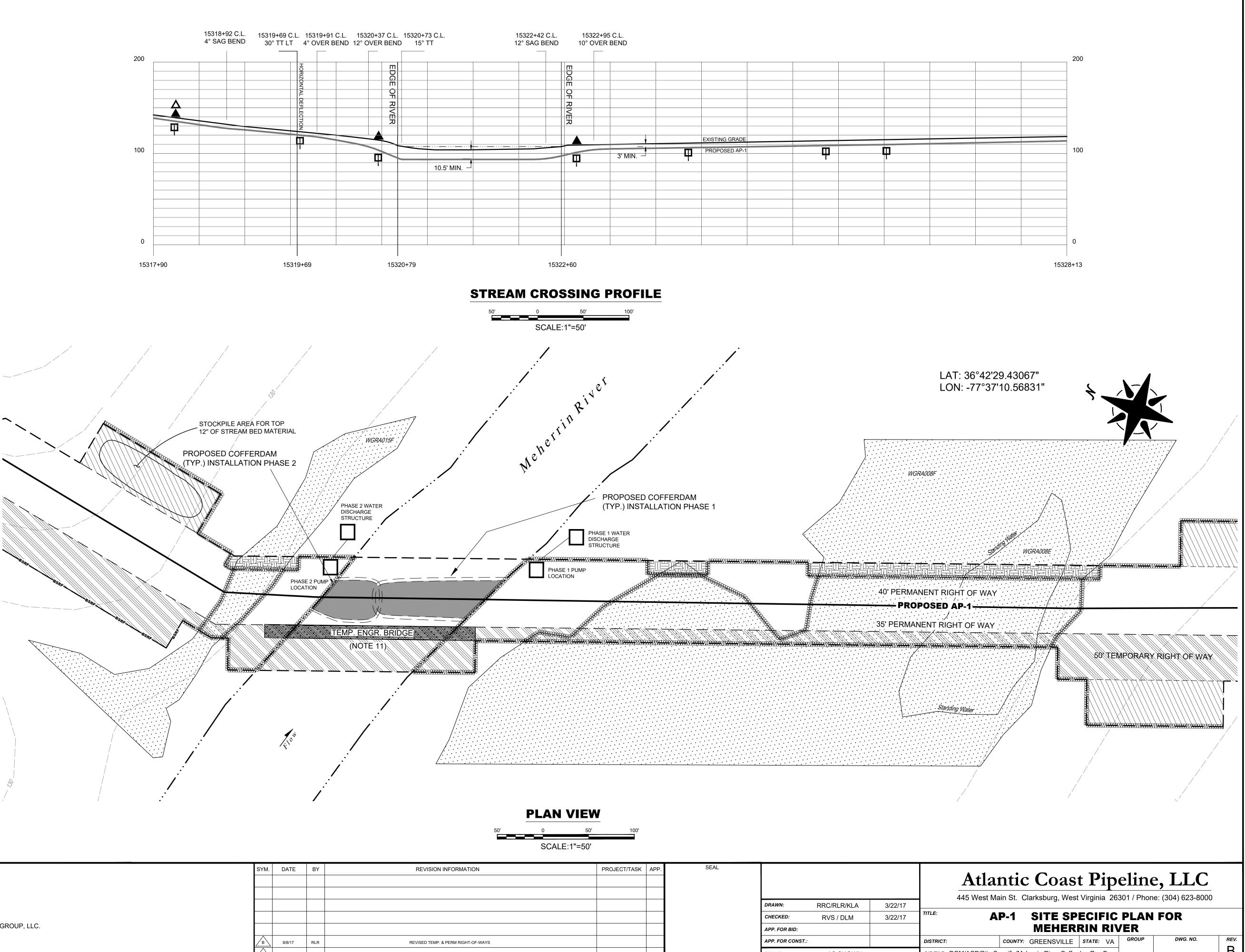
WATERBODY IMPACT

WATERBODY CONSTRUCTION NOTES: 1. CROSSING TO BE COMPLETED VIA THE USE OF A COFFERDAM.

- 2. CONSTRUCTION TO BE PREFORMED IN LOW FLOW PERIODS. FLOW SHALL BE MAINTAINED AT ALL TIMES.
- 3. RIP RAP (OR OTHER NON-ERODIBLE MATERIALS) TO BE PLACED IN SEMICIRCLE ALONG SIDE OF STREAM, ABOVE THE ORDINARY HIGH WATER MARK.
- 4. DISCHARGE ALL WATER THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE.
- 5. STABILIZE WATER WATERBODY BANKS AND INSTALL TEMPORARY SEDIMENT BARRIERS WITHIN 24-HOURS OF COMPLETING IN-STREAM
- CONSTRUCTION ACTIVITIES. 6. RETURN ALL WATERBODY BANKS TO PRE-CONSTRUCTION CONTOURS OR TO A
- STABLE ANGLE OF REPOSE AS APPROVED BY THE ENVIRONMENTAL INSPECTOR. FILL BELOW THE ORDINARY HIGH WATER MARK SHOULD BE AVOIDED.
- 7. INSTALL TRENCH PLUGS AND WATERBARS AS DIRECTED BY THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN ON BOTH SIDES OF THE WATERWAY, AND AS DEPICTED. ON THIS PLAN.
- 8. PIPELINE SHALL BE WEIGHTED WITH CONCRETE COATING IN THE RIVER CROSSING TO ACHIEVE NEGATIVE BUOYANCY.
- 9. RIVER TRAFFIC WILL NOT BE IMPENDED DURING CONSTRUCTION.
- 10. UPON COMPLETION OF CONSTRUCTION WITHIN THE COFFERDAM, THE COFFERDAM WILL BE RELOCATED TO OPPOSITE SIDE OF WATERBODY FOR COMPLETION OF PIPELINE CONSTRUCTION.
- 11. THE TEMPORARY BRIDGE WILL UTILIZE IN-STREAM SUPPORTS.

TIME OF YEAR RESTRICTIONS (TOYRS) ALL WORK MUST BE COMPLETED FROM FEBRUARY 15 to JUNE 30 / MAY 15 to JULY 31 / APRIL 15 to JUNE 15 & AUGUST 15 to SEPTEMBER 30





GENERAL NOTES AND COMMENTS:

REFERENCE

ELEVATION DATA FROM THE USGS GIS DATA CLEARING HOUSE.

PIPELINE SURVEY INFORMATION PROVIDED BY GAI CONSULTANTS.

STREAM AND WETLAND DATA COLLECTED BY NATIONAL RESOURCE GROUP, LLC.

MAPPING DATUM-VA STATE PLANE SOUTH-NAD 83 CONTOUR INTERVAL - 10 FEET

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| | | | | | | APP. FOR BID: | |
| 8/8/17 | RLR | REVISED TEMP. & PERM RIGHT-OF-WAYS | | | | APP. FOR CONST.: | |
| 3/21/17 | KLA | ISSUED FOR REVIEW | | | | SCALE: | AS SHOW |
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LEGEND

| | PERMANENT RIGHT-OF-WAY | | | | |
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| V71_711_117_117 | TEMPORARY RIGHT-OF-WAY | | | | |
| | TOPSOIL SEGRAGATION AREA | | | | |
| | EXTRA WORK SPACE | | | | |
| WETLAND | | | | | |
| DO NOT DISTURB | | | | | |
| | STREAM | | | | |
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| R888888888888888888888 | COMPOST FILTER SOCK | | | | |
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| <u> </u> | ROCK CONSTRUCTION ENTRANCE | | | | |
| Ψ | TRENCH PLUG | | | | |
| À | WATER BAR | | | | |
| Δ | TEMPORARY SLOPE BREAKER | | | | |
| WATERBODY IMPACT | | | | | |

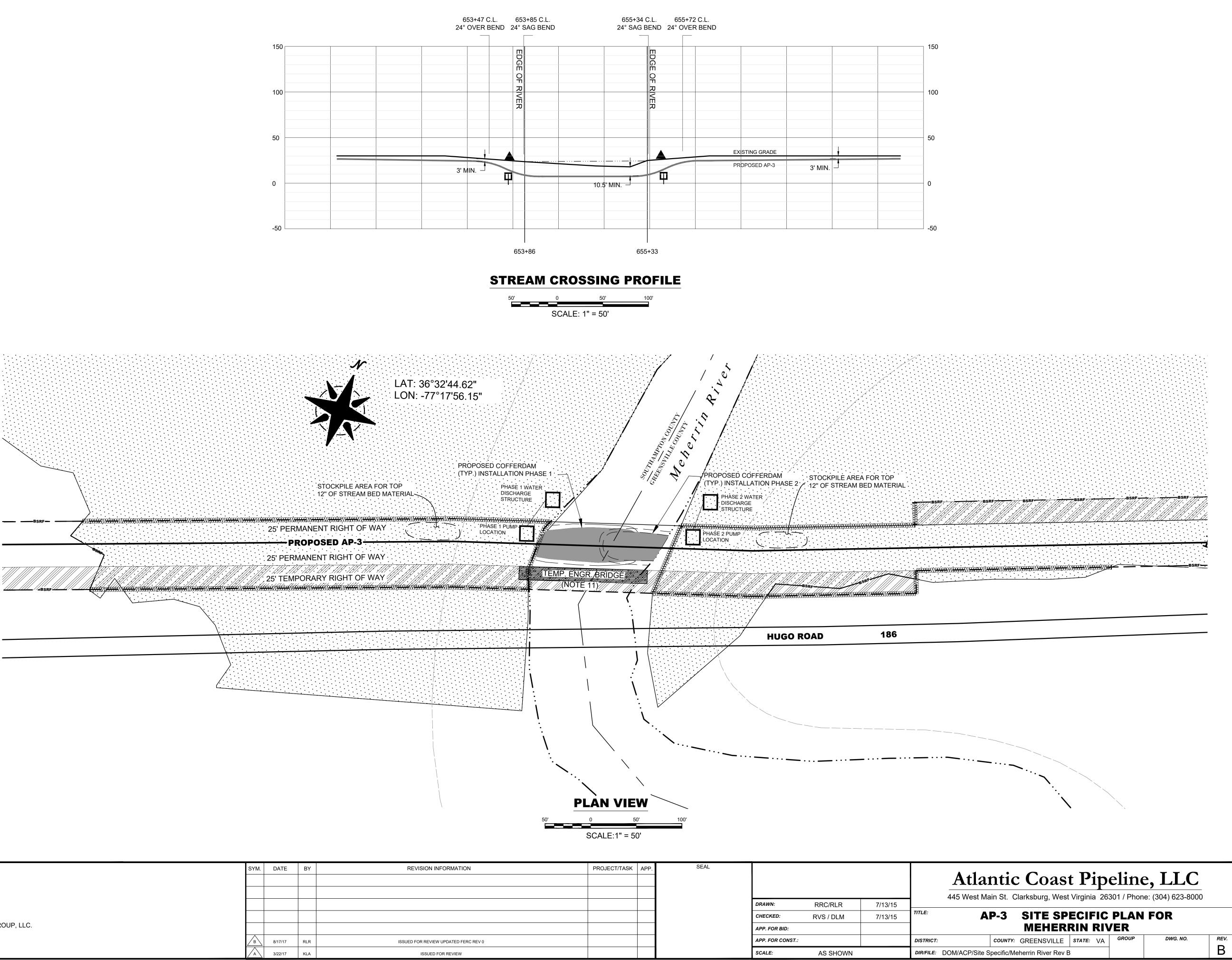
| WATERBODY # | TEMP. IMPACT | PERMANENT IMPACT | | | | | |
|-------------|--------------|------------------|--|--|--|--|--|
| | 0.22 ACRES | 0.0 ACRES | | | | | |

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STREAM AND WETLAND DATA COLLECTED BY NATIONAL RESOURCE GROUP, LLC.

MAPPING DATUM-VA STATE PLANE SOUTH-NAD 83 CONTOUR INTERVAL - 10 FEET

| DATE | BY | REVISION INFORMATION | PROJECT/TASK | APP. | SEAL | | |
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| | | | | | | APP. FOR BID: | |
| 8/17/17 | RLR | ISSUED FOR REVIEW UPDATED FERC REV 0 | | | | APP. FOR CONST.: | |
| 3/22/17 | KLA | ISSUED FOR REVIEW | | | | SCALE: | AS SHOV |