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**PROJECT: BP7-C002**

**CONTRACT: DG00695**

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION

**PAVEMENT MARKING PLANS**  
**GUILFORD COUNTY**

**LOCATION: CULVERT NO. 40-2179 ON SR 3098 (ABERNATHY RD)  
 OVER UT TO BIG ALAMANCE CREEK**

|  |                           |
|--|---------------------------|
| PROJECT REFERENCE NO.<br><b>BP7.002</b>  | SHEET NO.<br><b>PMP-1</b> |
| APPROVED: <br><small>Signed by: [REDACTED]</small>   |                           |
| DATE: 4/15/2026  |                           |
| SEAL<br>  |                           |
|  <b>moffatt &amp; nichol</b><br><small>4700 FALLS OF NEUSE ROAD, SUITE 300<br/>         RALEIGH, NORTH CAROLINA 27609<br/>         (919) 781-4626 VOICE (919) 781-4869 FAX (F-0105)</small> |                           |
| DOCUMENT NOT CONSIDERED FINAL<br>UNLESS ALL SIGNATURES COMPLETED   |                           |

**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS SHOWN IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2024 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

| STD. NO. | TITLE  |
|----------|--|
| 1205.01  | PAVEMENT MARKINGS - LINE TYPES AND OFFSETS               |
| 1205.02  | PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS     |
| 1261.01  | GUARDRAIL AND BARRIER DELINEATORS - INSTALLATION SPACING |
| 1261.02  | GUARDRAIL AND BARRIER DELINEATORS - TYPES AND MOUNTING   |
| 1262.01  | GUARDRAIL END DELINEATION                                |

**GENERAL NOTES**

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

| ROAD NAME          | MARKING       | MARKER |
|--------------------|---------------|--------|
| -L- (ABERNATHY RD) | THERMOPLASTIC | NONE   |

- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE / REPLACE ANY CONFLICTING / DAMAGED PAVEMENT MARKINGS AND MARKERS THAT HAVE BEEN DAMAGED BY THE END OF EACH DAY'S OPERATION.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) REMOVE ALL RESIDUE AND SURFACE LAITANCE BY ACCEPTABLE METHODS ON CONCRETE BRIDGE DECKS PRIOR TO PLACING COLD APPLIED PLASTIC PAVEMENT MARKING MATERIAL.

**FINAL PAVEMENT MARKING SCHEDULE**



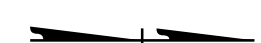
| MATERIAL                    | SYMBOL | DESCRIPTION          |
|-----------------------------|--------|----------------------|
| THERMOPLASTIC (4", 90 MILS) |        |                      |
|                             | T1     | WHITE EDGE LINE      |
|                             | T13    | YELLOW DOUBLE CENTER |

**INDEX**

| SHEET NO.        | DESCRIPTION   |
|------------------|---|
| PMP-1            | PAVEMENT MARKING PLAN TITLE, LIST OF STANDARD DRAWINGS, GENERAL NOTES AND INDEX OF SHEETS |
| PMP-2            | FINAL PAVEMENT MARKING SCHEDULE AND LEGEND  |
| PMP-3 THRU PMP-4 | PAVEMENT MARKING DETAILS  |

**LEGEND**

**GENERAL**

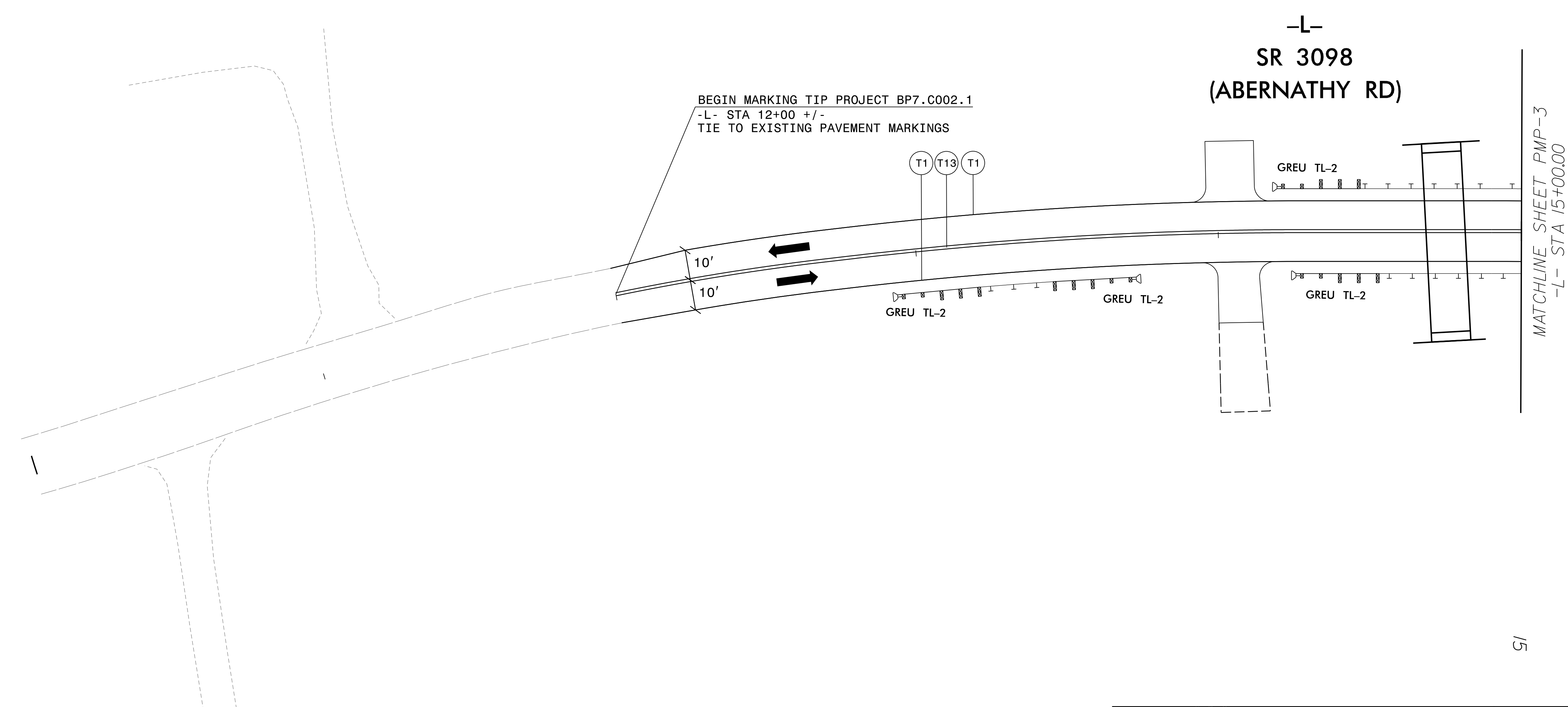
-  PROPOSED PAVEMENT
-  EXISTING PAVEMENT
-  NORTH ARROW

**PLAN REVIEWED BY: NCDOT SIGNING AND DELINEATION UNIT**

|                      |   |
|----------------------|---|
| <u>KELVIN JORDAN</u> | SIGNING & DELINEATION REGIONAL ENGINEER       |
| <u>J. NAVARRETE</u>  | SIGNING & DELINEATION PROJECT DESIGN ENGINEER |

**PLAN PREPARED BY: MOFFATT & NICHOL**

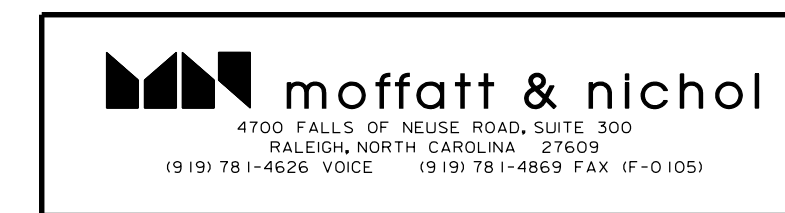
|                       |                  |
|-----------------------|------------------|
| <u>ED EDENS, PE</u>   | PROJECT ENGINEER |
| <u>ZITONG LIU, PE</u> | PROJECT DESIGN   |



12/9/2025  
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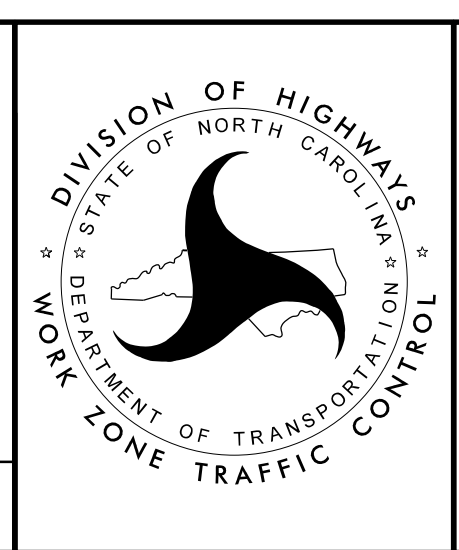


APPROVED: *Trist E. Huffman*  
85004870170449

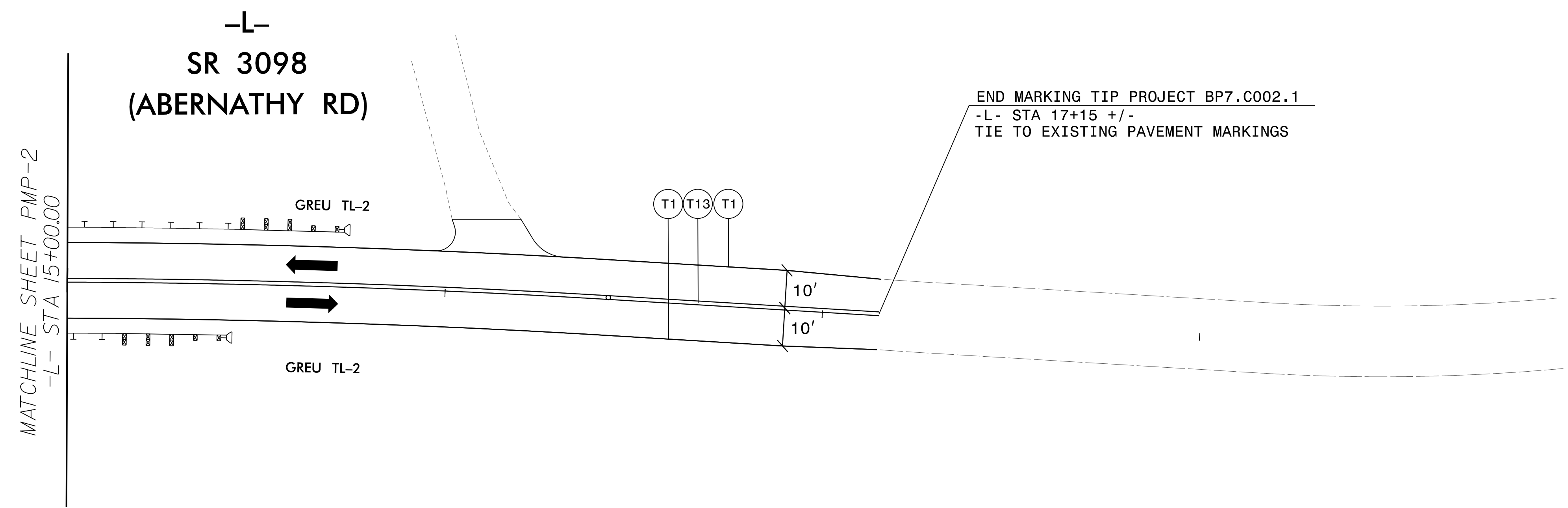
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SEAL

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

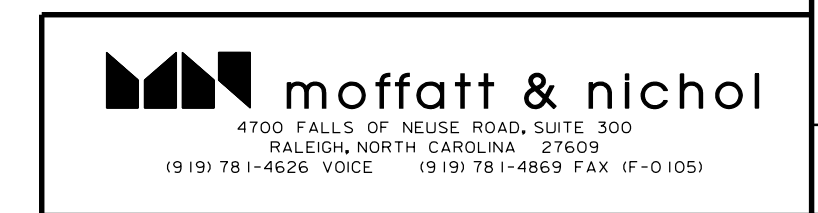


**FINAL PAVEMENT  
MARKING PLANS**



1/1

12/9/2025  
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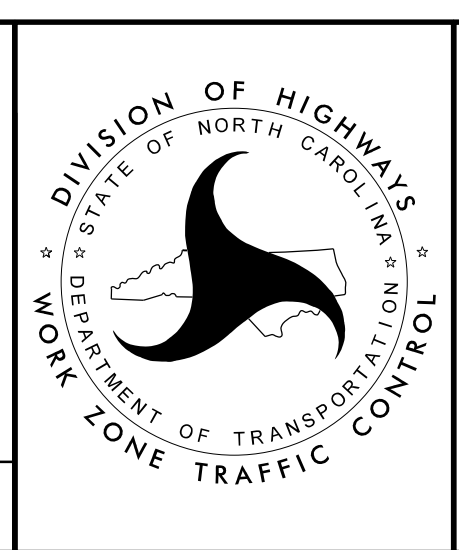


APPROVED: *Trent E. Huffman*  
DATE: 12/9/2025

SEAL

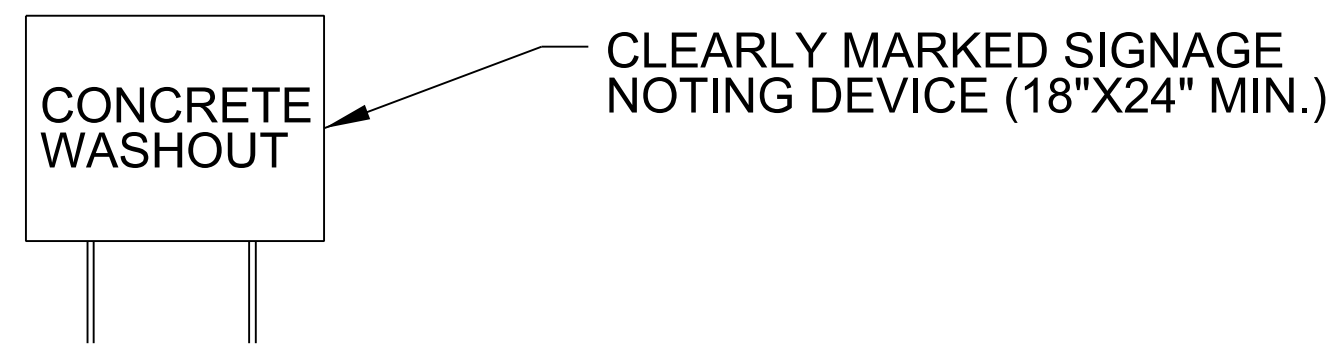
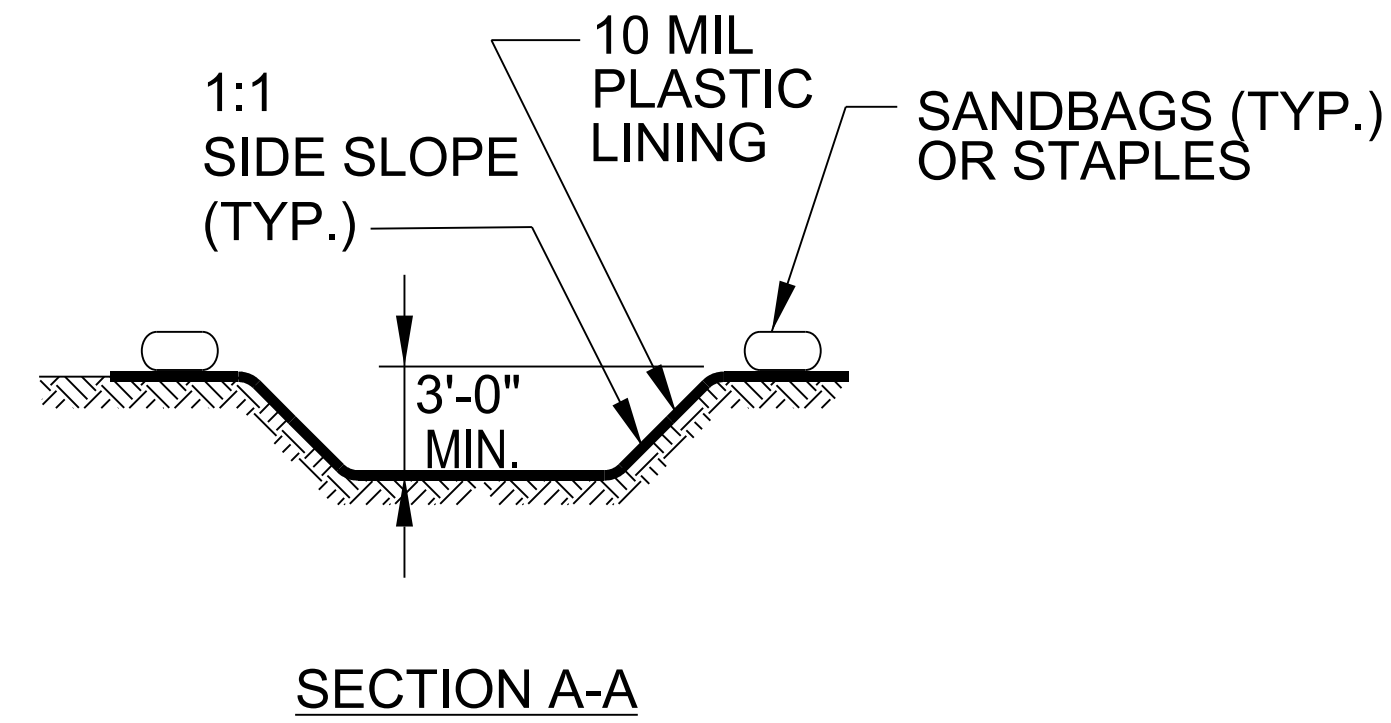
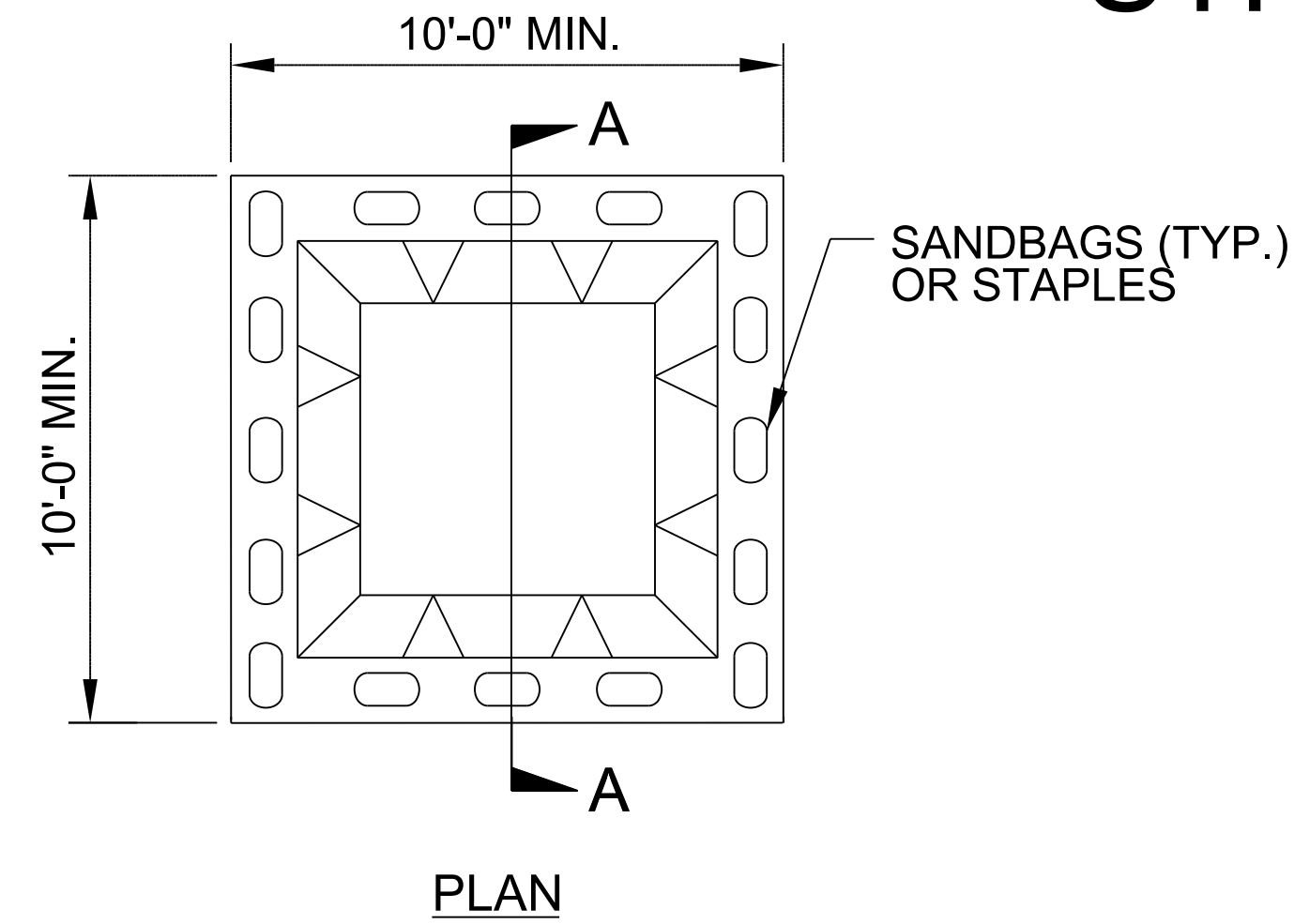
**SEAL**  
023912  
ENGINEER  
TRENT E. HUFFMAN

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**



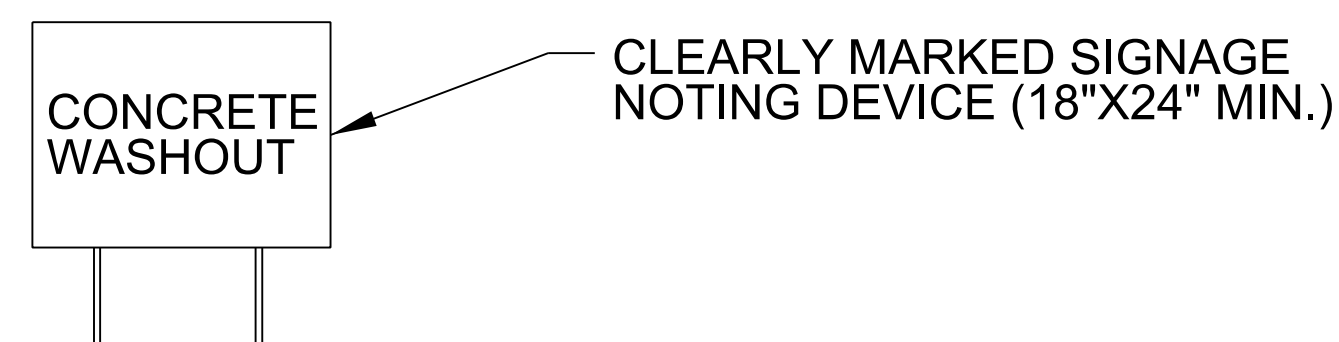
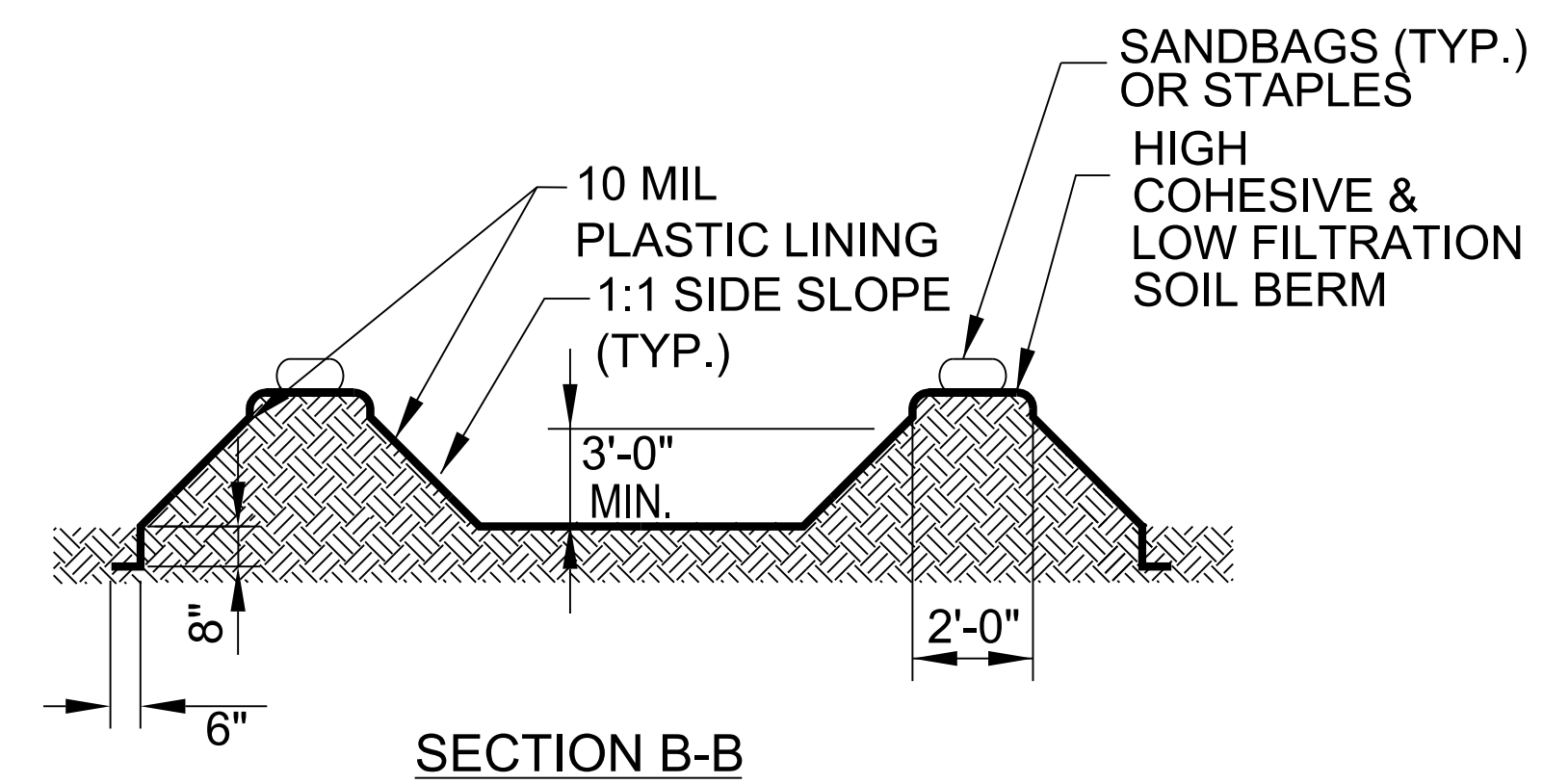
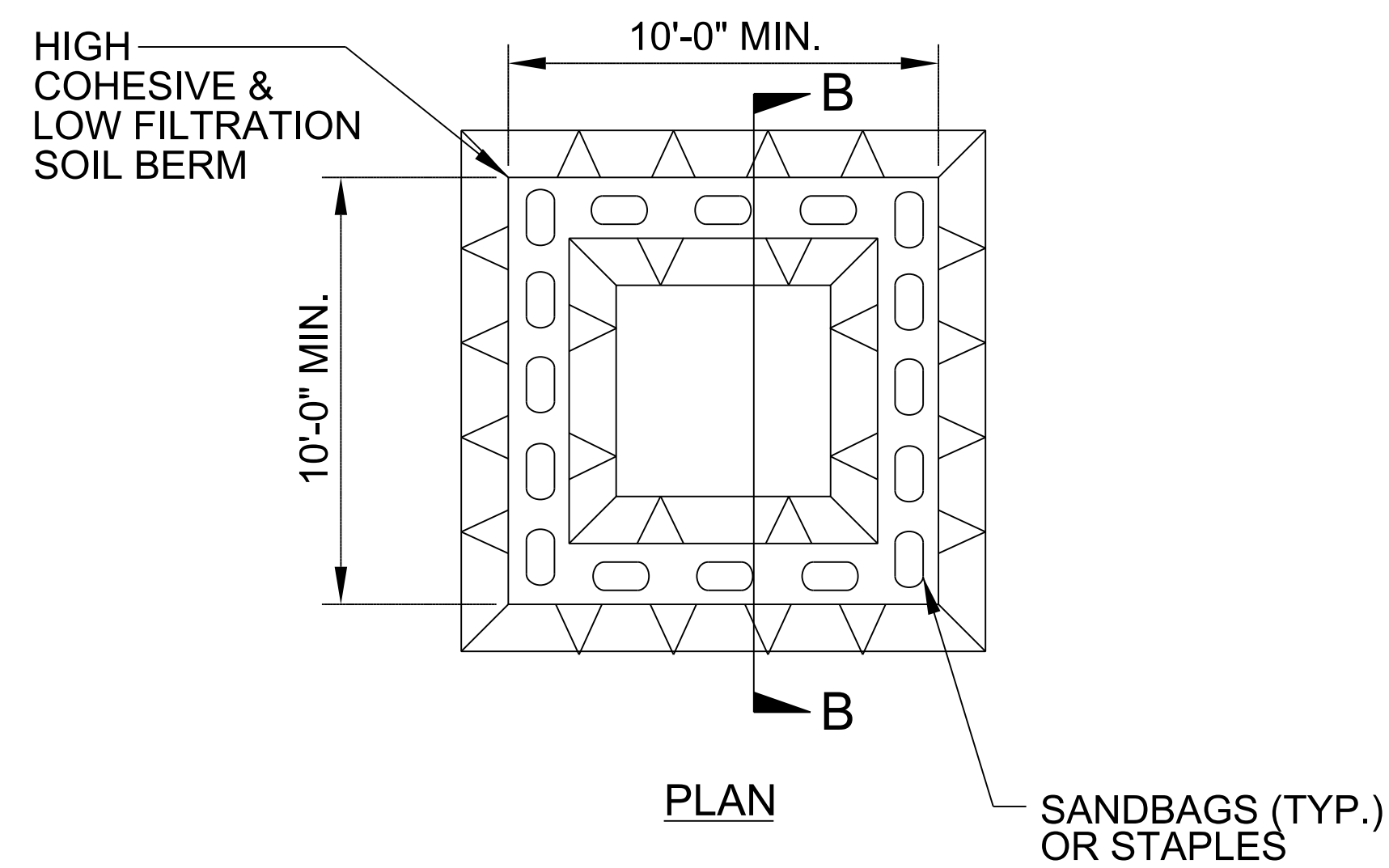
FINAL PAVEMENT  
MARKING PLANS

# ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



**BELOW GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

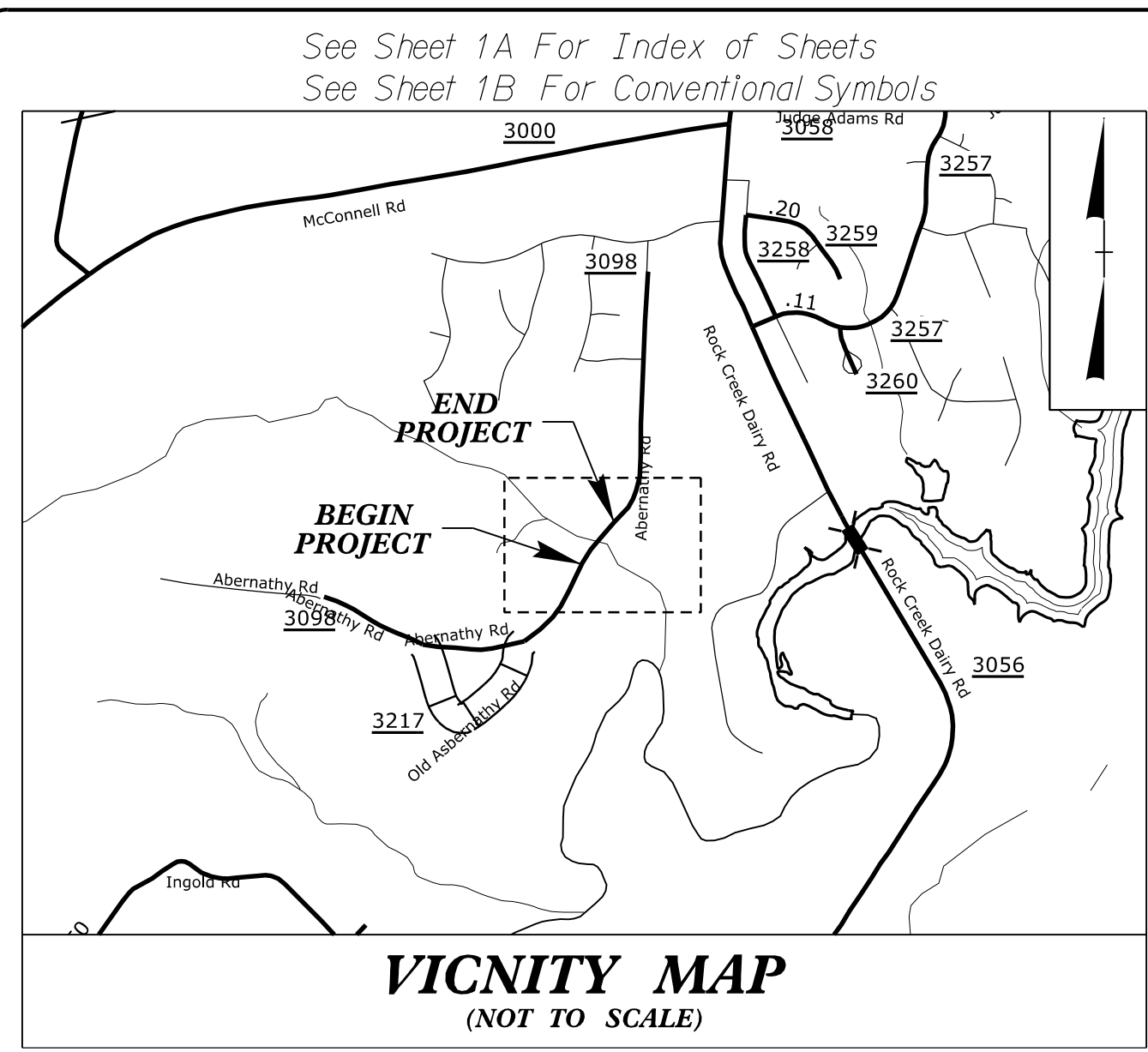


**ABOVE GRADE WASHOUT STRUCTURE**  
NOT TO SCALE

- NOTES:
1. ACTUAL LOCATION DETERMINED IN FIELD
  2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.
  3. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARLY MARKED WITH SIGNAGE NOTING DEVICE.

09.08/2019

**TIP PROJECT: BP7.C002.1**



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL  
**GUILFORD COUNTY**

| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
|-----------------|-----------------------------|-------------|--------------|
| N.C.            | <b>BP7-C002</b>             | EC-1        |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION |              |
| BP7.C002.1      |                             | P.E.        |              |
| BP7.C002.2      |                             | ROWUTIL     |              |
| BP7.C002.3      |                             | CONST       |              |
|                 |                             |             |              |
|                 |                             |             |              |
|                 |                             |             |              |

**LOCATION: CULVERT 40-2179 OVER UT TO BIG ALAMANCE CREEK  
ON SR 3098 (ABERNATHY RD)**

**TYPE OF WORK: PAVING, GRADING, GUARDRAIL, DRAINAGE,  
PAVEMENT MARKINGS AND CULVERT**

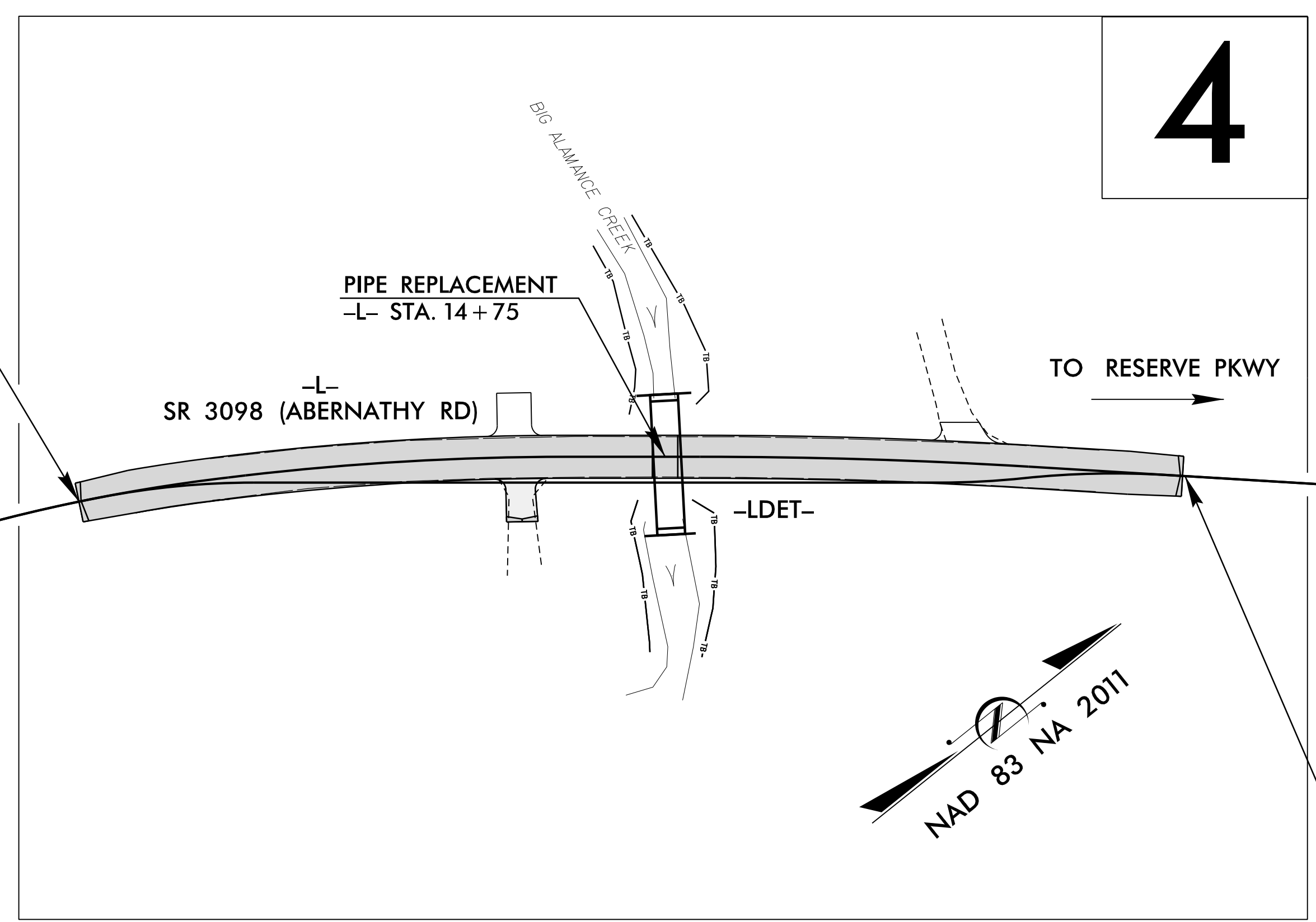
**BEGIN STATE PROJECT BP7.C002.1  
BEGIN CONSTRUCTION  
-L- STA. 12 + 00.00**

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

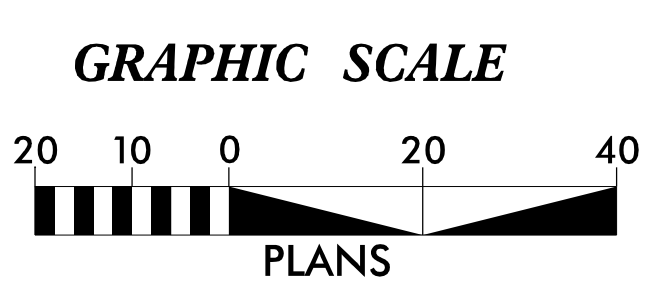
THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

**ENVIRONMENTALLY SENSITIVE AREA(S) EXIST ON THIS PROJECT**  
*Refer To E. C. Special Provisions for Special Considerations.*

THIS PROJECT IS NOT WITHIN ANY MUNICIPAL BOUNDARIES.  
CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II



**END STATE PROJECT BP7.C002.1  
END CONSTRUCTION  
-L- STA. 17 + 15.00**



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-01000 GENERAL STORMWATER CONSTRUCTION PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES.

Prepared in the Office of:  
**MOFFATT & NICHOL**  
4700 FALLS OF NEUSE ROAD, SUITE 300  
RALEIGH, NORTH CAROLINA 27609  
(919)781-4626 PHONE (919)781-4869 FAX  
**2024 STANDARD SPECIFICATIONS**

Designed by:  
**JUSTIN DAVENPORT** 3989  
NAME LEVEL III CERTIFICATION NO.

**Roadway Standard Drawings**  
The "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2024 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

12/10/2025 9:14:10 AM I:\RA\10704-03\20 CADD\BP7.C002.1\Roadside\PSH\BP7.C002.REU.EC-01.TSH.dgn jidavenport

# DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

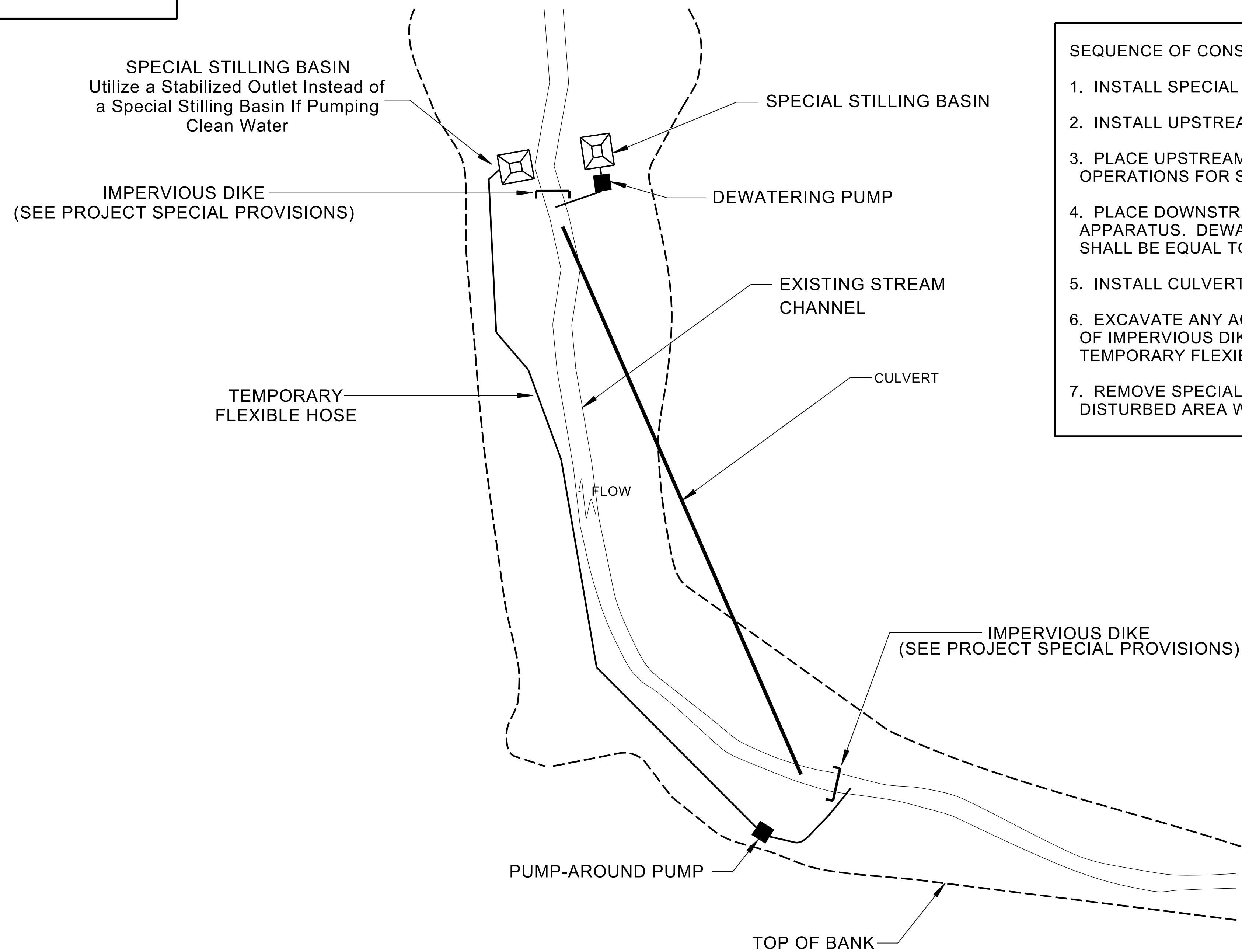
## EROSION & SEDIMENT CONTROL LEGEND

| Std. #  | Description                      | Symbol | Std. #  | Description  | Symbol |
|---------|----------------------------------|--------|---------|--|--------|
| 1605.01 | Temporary Silt Fence             |        | 1633.01 | Temporary Rock Silt Check Type A                                       |        |
| 1606.01 | Special Sediment Control Fence   |        | 1633.02 | Temporary Rock Silt Check Type B                                       |        |
| 1622.01 | Temporary Berms and Slope Drains |        | 1633.03 | Temporary Rock Silt Check Type A with Excelsior Matting and Flocculant |        |
| 1630.02 | Silt Basin Type B                |        | 1634.01 | Temporary Rock Sediment Dam Type A                                     |        |
| 1630.03 | Temporary Silt Ditch             |        | 1634.02 | Temporary Rock Sediment Dam Type B                                     |        |
| 1630.04 | Stilling Basin                   |        | 1635.01 | Rock Pipe Inlet Sediment Trap Type A                                   |        |
| 1630.05 | Temporary Diversion              |        | 1635.02 | Rock Pipe Inlet Sediment Trap Type B                                   |        |
| 1630.06 | Special Stilling Basin           |        | 1636.01 | Excelsior Wattle Check   |        |
| 1630.07 | Skimmer Basin                    |        | 1636.01 | Excelsior Wattle Check with Flocculant                                 |        |
| 1630.08 | Tiered Skimmer Basin             |        | 1636.01 | Coir Fiber Wattle Check  |        |
| 1630.09 | Earthen Dam with Skimmer         |        | 1636.01 | Coir Fiber Wattle Check with Flocculant                                |        |
|         | Infiltration Basin               |        | 1636.02 | Silt Fence Excelsior Wattle Break                                      |        |
|         | Rock Inlet Sediment Trap:        |        |         | Silt Fence Coir Fiber Wattle Break                                     |        |
| 1632.01 | Type A                           |        | 1636.03 | Excelsior Wattle Barrier   |        |
| 1632.02 | Type B                           |        | 1636.03 | Coir Fiber Wattle Barrier  |        |
| 1632.03 | Type C                           |        |         |  |        |

# EXAMPLE OF PUMP-AROUND OPERATION

**NOTES:**

- 1) All excavation shall be performed in only dry or isolated areas of the work zone.
- 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
- 3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
- 4) Pumps and hoses shall be of sufficient size to dewater the work area.



**SEQUENCE OF CONSTRUCTION FOR TYPICAL WORK AREA**

1. INSTALL SPECIAL STILLING BASIN(S).
2. INSTALL UPSTREAM PUMP AND TEMPORARY FLEXIBLE HOSE.
3. PLACE UPSTREAM IMPERVIOUS DIKE AND BEGIN PUMPING OPERATIONS FOR STREAM DIVERSION.
4. PLACE DOWNSTREAM IMPERVIOUS DIKE AND PUMPING APPARATUS. DEWATER ENTRAPPED AREA. AREA TO BE DEWATERED SHALL BE EQUAL TO ONE DAY'S WORK.
5. INSTALL CULVERT(S) IN ACCORDANCE WITH THE PLANS.
6. EXCAVATE ANY ACCUMULATED SILT AND DEWATER BEFORE REMOVAL OF IMPERVIOUS DIKES. REMOVE IMPERVIOUS DIKES, PUMPS, AND TEMPORARY FLEXIBLE HOSE. (DOWNSTREAM IMPERVIOUS DIKES FIRST).
7. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

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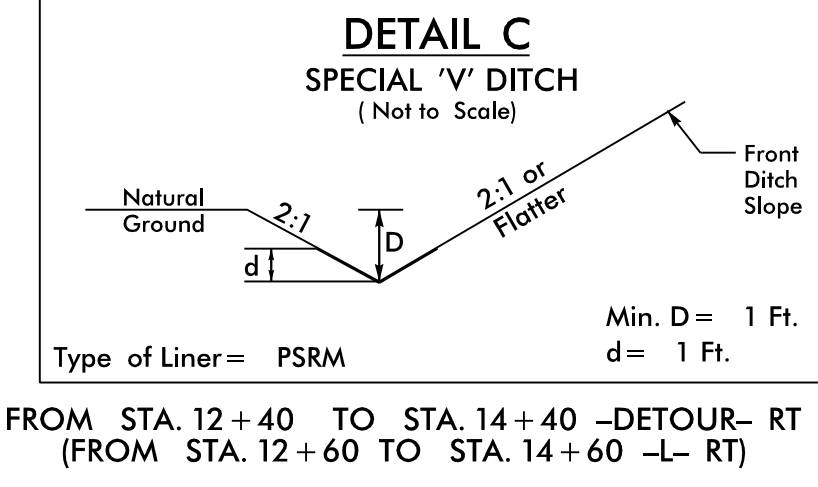
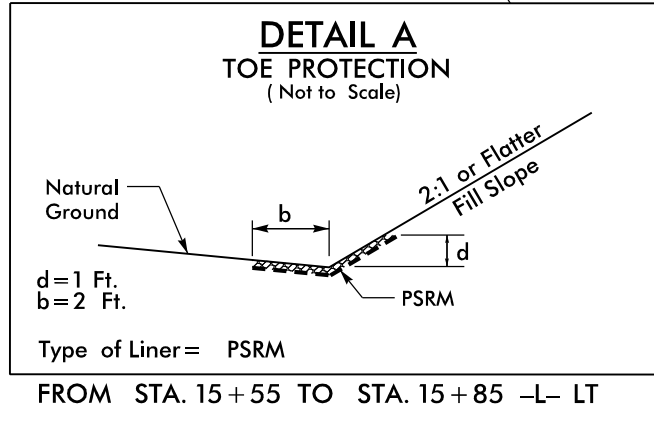
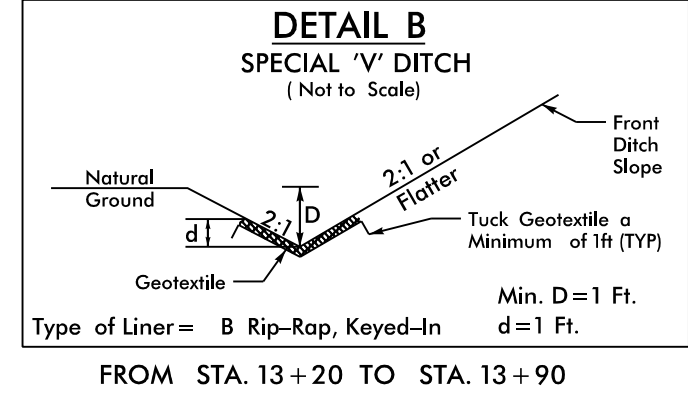
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## ***SOIL STABILIZATION TIMEFRAMES***

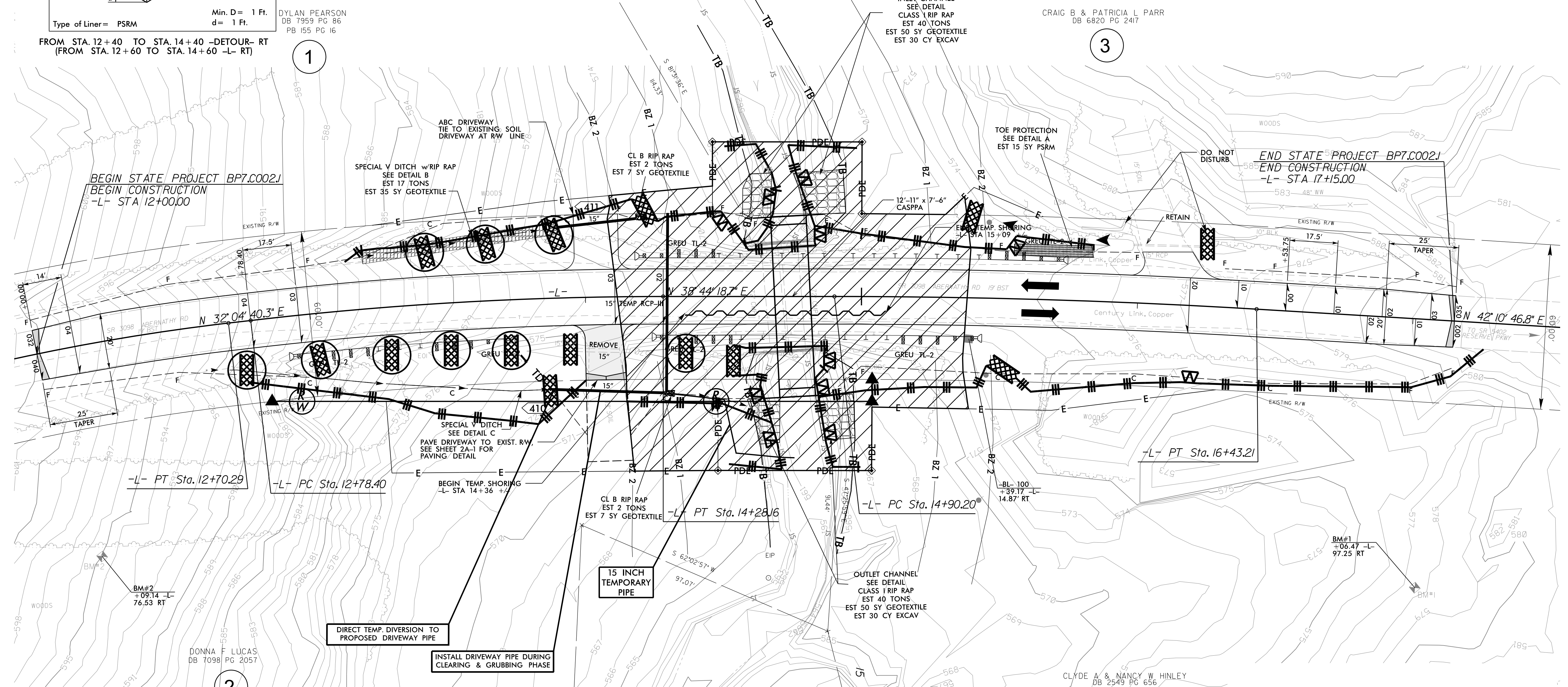
| <i>SITE DESCRIPTION</i>                      | <i>STABILIZATION TIME</i> | <i>TIMEFRAME EXCEPTIONS</i>   |
|--|---------------------------|---|
| PERIMETER DIKES, SWALES, DITCHES AND SLOPES  | 7 DAYS                    | NONE  |
| HIGH QUALITY WATER (HQW) ZONES               | 7 DAYS                    | NONE  |
| SLOPES STEEPER THAN 3:1                      | 7 DAYS                    | IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.  |
| SLOPES 3:1 TO 4:1                            | 14 DAYS                   | 7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH WITH SLOPES STEEPER THAN 4:1.<br>7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES |
| ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1 | 14 DAYS                   | 7 DAYS FOR PERIMETER DIKES, SWALES, DITCHES PERIMETER SLOPES, AND HQW ZONES   |

CLEARING AND GRUBBING  
 EROSION CONTROL FOR  
 CONSTRUCTION SHEET 04

NOTE:  
 PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B  
 AND TEMPORARY ROCK SILT CHECKS TYPE - A AT  
 DRAINAGE OUTLETS.



| PI Sta 11+94.25                       | PI Sta 13+53.36                      | PI Sta 15+66.73                      |
|---------------------------------------|--------------------------------------|--------------------------------------|
| $\Delta = 10^{\circ} 55' 30.6''$ (RT) | $\Delta = 6^{\circ} 39' 38.3''$ (RT) | $\Delta = 3^{\circ} 26' 28.1''$ (RT) |
| $D = 7^{\circ} 09' 43.1''$            | $D = 4^{\circ} 26' 50.5''$           | $D = 2^{\circ} 14' 56.0''$           |
| $L = 152.54'$                         | $L = 149.77'$                        | $L = 153.02'$                        |
| $T = 76.50'$                          | $T = 74.97'$                         | $T = 76.53'$                         |
| $R = 800.00'$                         | $R = 1,288.31'$                      | $R = 2,547.74'$                      |
| $SE = 0.04$                           | $SE = 0.03$                          | $SE = 0.02$                          |
| $RO = 70'$                            | $RO = 52.50'$                        | $RO = 35'$                           |



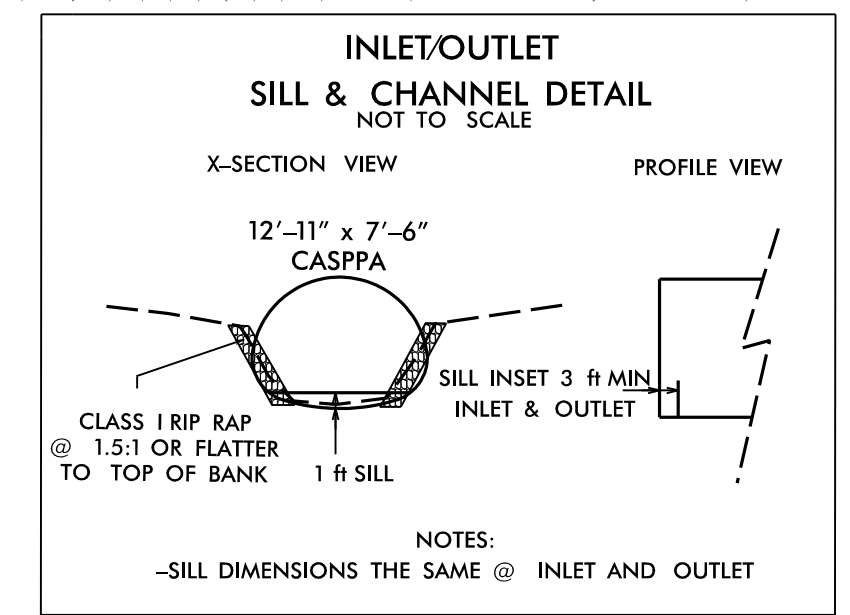
DYLAN PEARSON  
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 PB 155 PG 16

CRAIG B & PATRICIA L PARR  
 DB 6820 PG 2417

DONNA F LUCAS  
 DB 7098 PG 2057

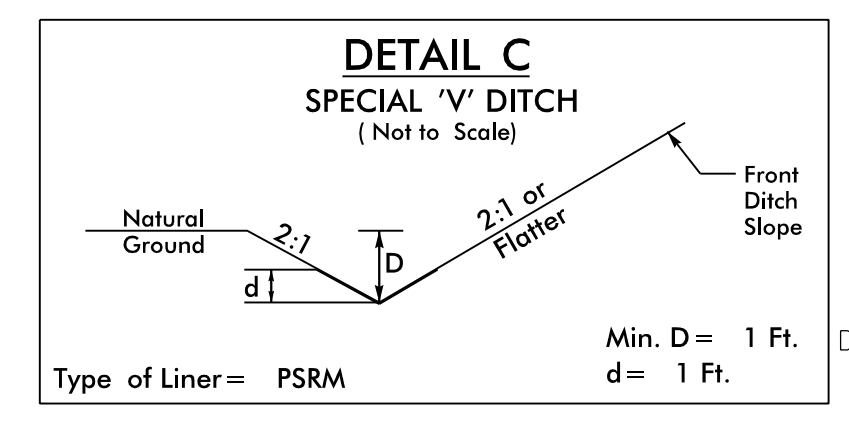
CLYDE A & NANCY W HINLEY  
 DB 2549 PG 656

CITY OF BURLINGTON  
 DB 2991 PG 814



8.17.09  
 12/10/2005  
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 10/10/2005

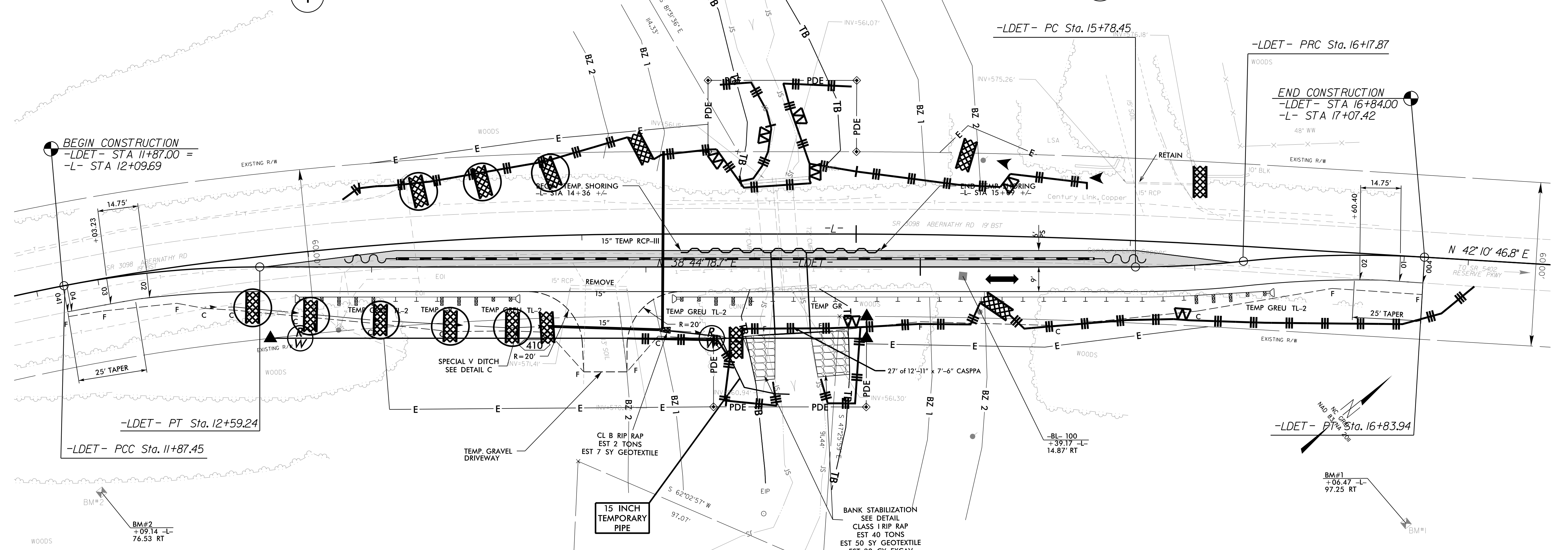
# -LDET-



DYLAN PEARSON  
DB 7959 PG 86  
PB 155 PG 16

FROM STA. 12+40 TO STA. 14+40 -DETOUR- RT  
(FROM STA. 12+60 TO STA. 14+60 -L- RT)

1



BEGIN CONSTRUCTION  
-LDET- STA 11+87.00 =  
-L- STA 12+09.69

END CONSTRUCTION  
-LDET- STA 16+84.00  
-L- STA 17+07.42

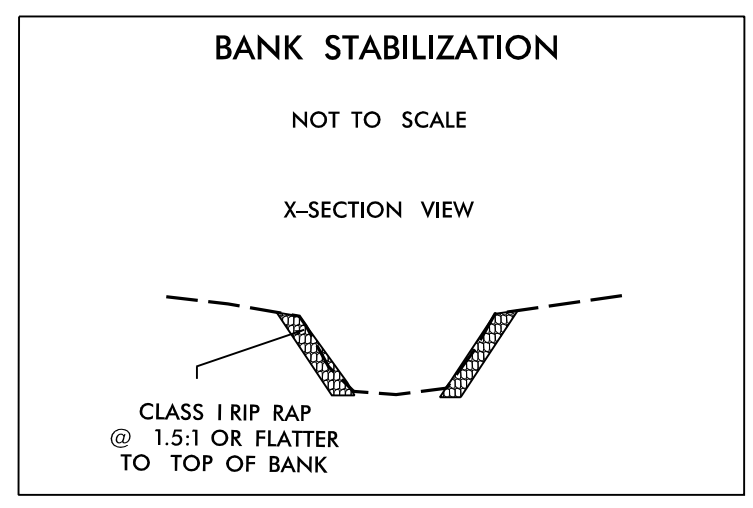
-LDET- PT Sta. 12+59.24

-LDET- PCC Sta. 11+87.45

-LDET- PT Sta. 16+83.94

DONNA F LUCAS  
DB 7098 PG 2057

2



CITY OF BURLINGTON  
DB 2991 PG 814

CLYDE A & NANCY W HINLEY  
DB 2549 PG 656

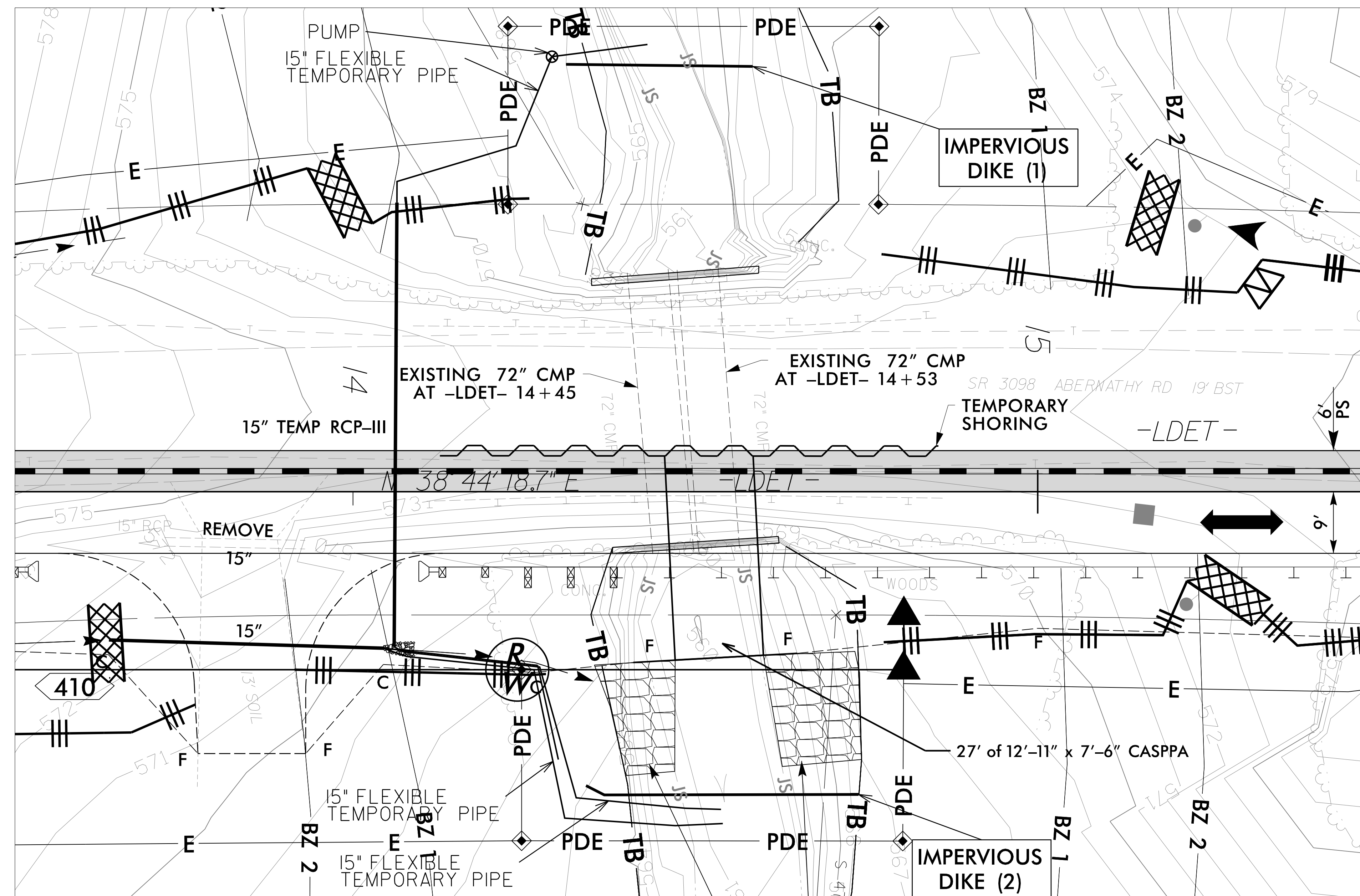
4

| -LDET-  |   |  |  |
|---|---|--|--|
| PI Sta 11+41.30<br>Δ = 6' 37" 02.4" (RT)<br>D = 7' 09" 43.1"<br>L = 92.40'<br>T = 46.25'<br>R = 800.00'<br>e = NC | PI Sta 12+23.45<br>Δ = 10' 58" 06.6" (RT)<br>D = 15' 16" 43.9"<br>L = 71.79'<br>T = 36.00'<br>R = 375.00'<br>e = NC | PI Sta 15+98.17<br>Δ = 6' 01" 22.1" (LT)<br>D = 15' 16" 43.9"<br>L = 39.42'<br>T = 19.73'<br>R = 375.00'<br>e = NC | PI Sta 16+50.98<br>Δ = 9' 27" 50.2" (RT)<br>D = 14' 19" 26.2"<br>L = 66.07'<br>T = 33.11'<br>R = 400.00'<br>e = NC |

4/15/2006  
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 8/17/99

# CULVERT CONSTRUCTION SEQUENCE STA. 14+75 -L-

## INTERMEDIATE PHASE I

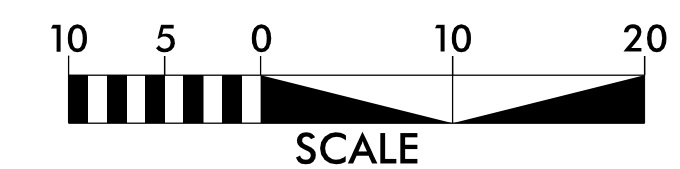
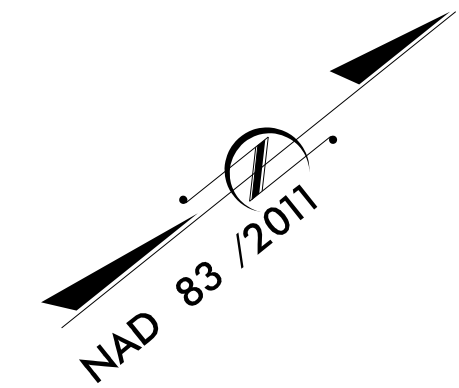
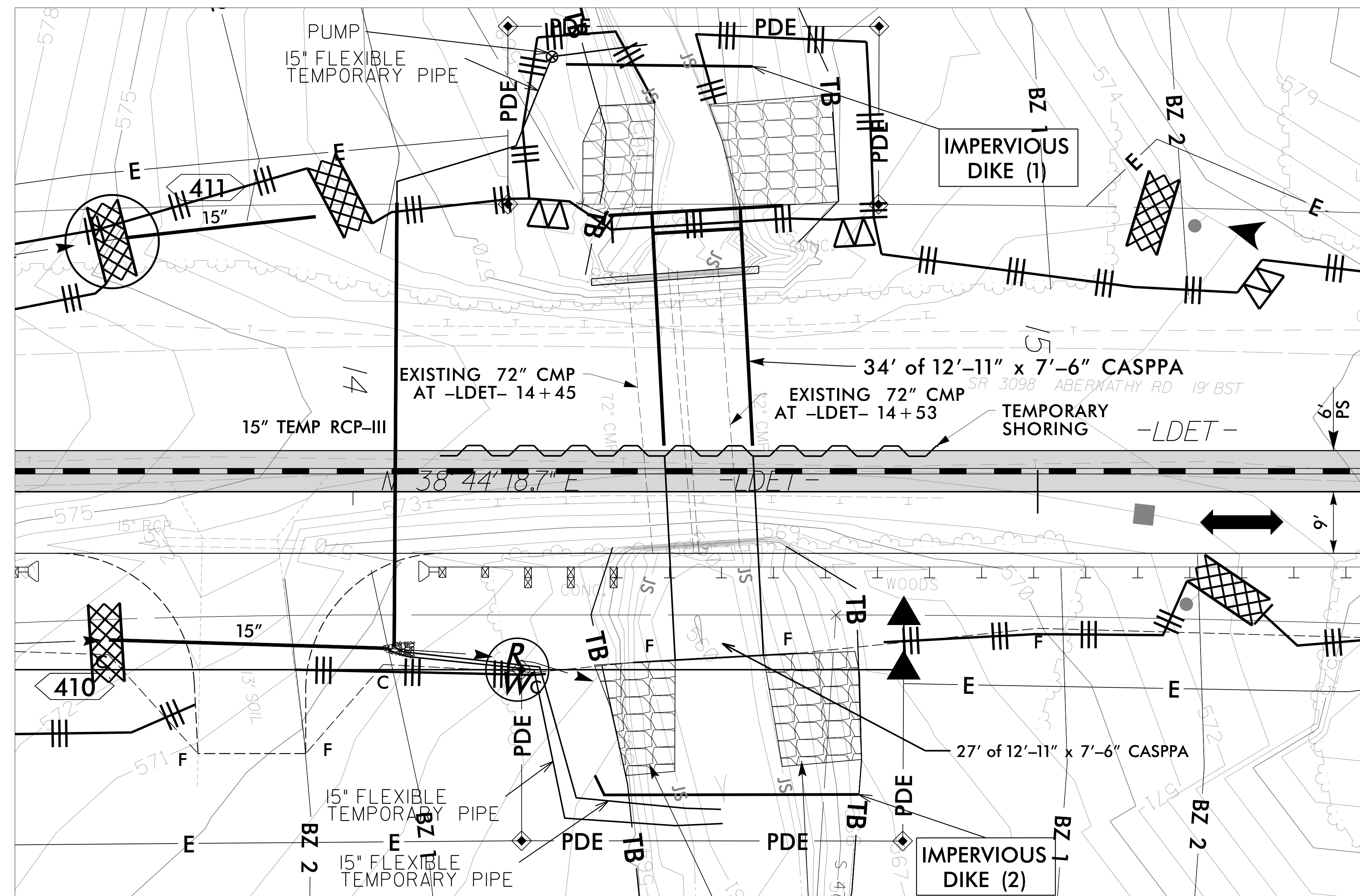


## CULVERT CONSTRUCTION PHASE I

1. INSTALL TEMPORARY 15" RCP-III UNDER ROAD
2. INSTALL IMPERVIOUS DIKE 1 TO A TOP ELEV=567.0' AND 2 TO A TOP ELEV=566.0'.
3. CONTRACTOR TO INSTALL AND USE PUMP AND NECESSARY 15" TEMPORARY PIPES TO ENSURE THAT THE AREA REMAINS DRY DURING CONSTRUCTION. SEE EC-2B.
4. UTILIZE TEMPORARY SILT BAGS AS NEEDED.
5. INSTALL 2 TONS OF CLASS-B RIPRAP AND 7SY OF GEOTEXTILE TO CONSTRUCT ENERGY DISSIPATOR AT OUTLET OF PUMP.
6. CONSTRUCT 27' OF 12'-11" x 7'-6" CASPPA AND ENDWALL. UTILIZE TEMPORARY SHORING AS NECESSARY
7. CONSTRUCT DETOUR AND SHIFT TRAFFIC.

# CULVERT CONSTRUCTION SEQUENCE STA. 14+75 -L-

## INTERMEDIATE PHASE II

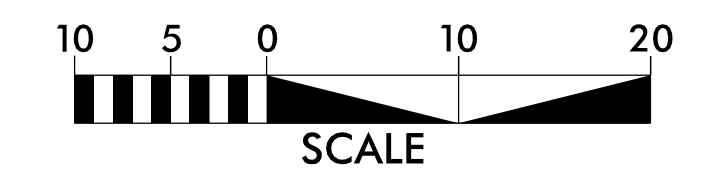
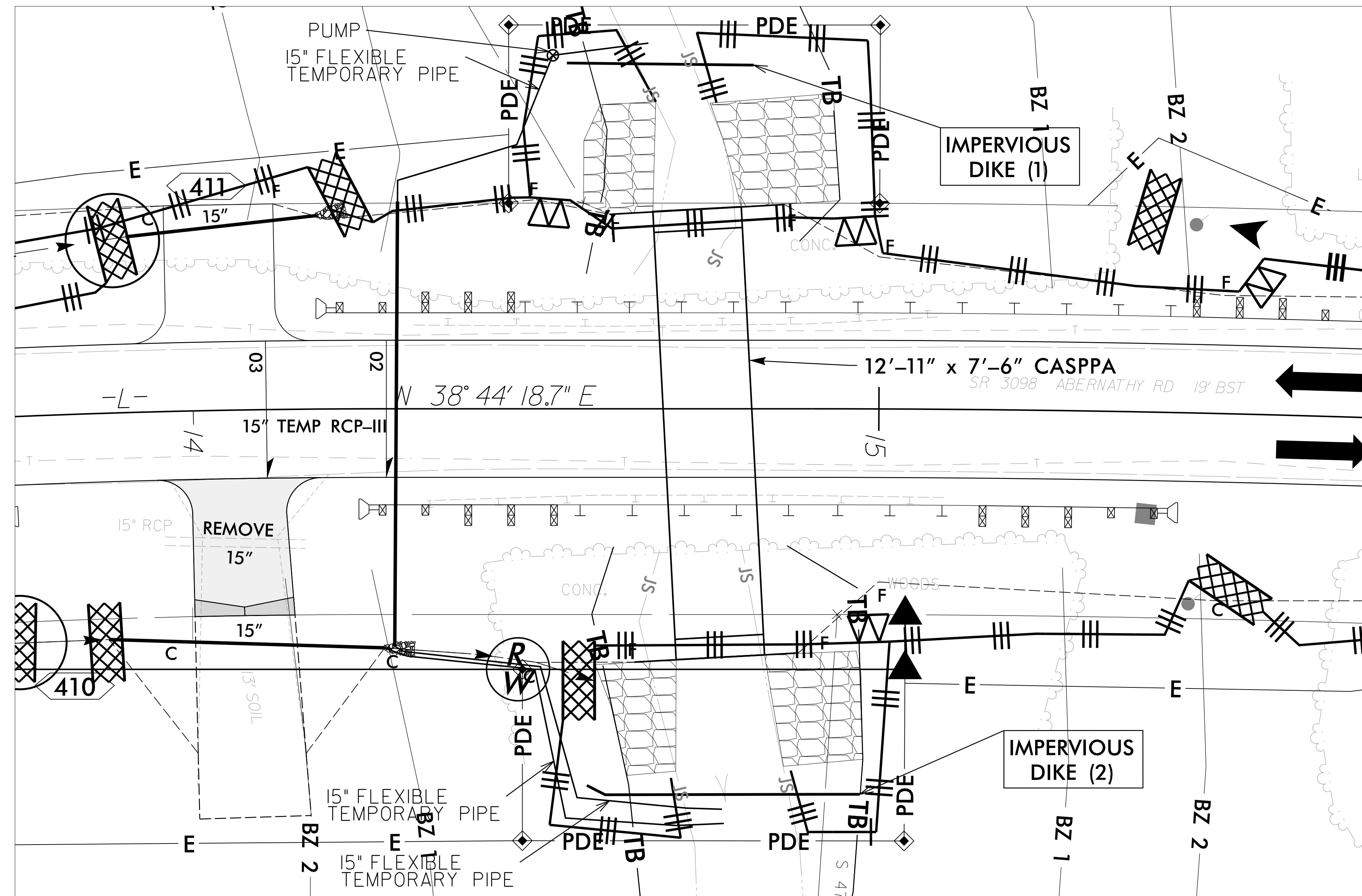


### CULVERT CONSTRUCTION PHASE 2

1. REMOVE EXISTING INLET HEADWALL OF 2@72" CMP. REMOVE 25' OF EXISTING 72" CMP AT -LDET- 14+45. REMOVE 24' OF EXISTING 72" CMP AT -LDET- 14+53.
2. CONSTRUCT 32' OF 12'-11"x7'-6" CORRUGATED ALUMINUM STRUCTURAL PLATE PIPE ARCH AND HEADWALL.
3. CONSTRUCT INLET PROTECTION.
4. CONSTRUCT PROPOSED ROAD AND SHIFT TRAFFIC.

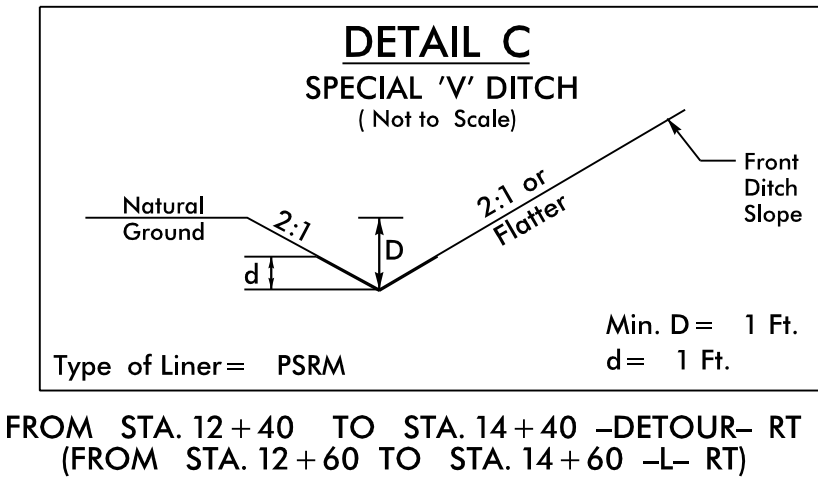
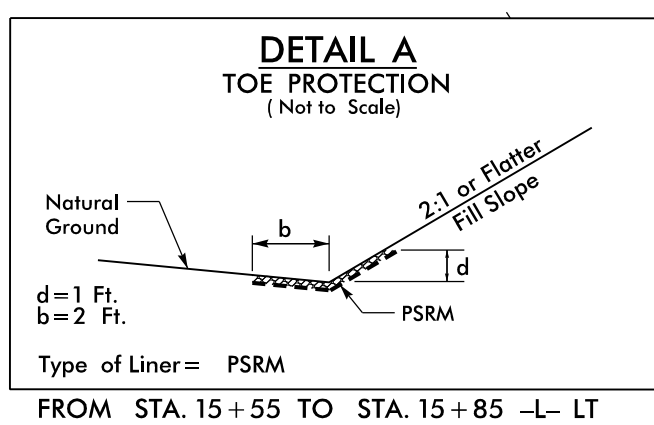
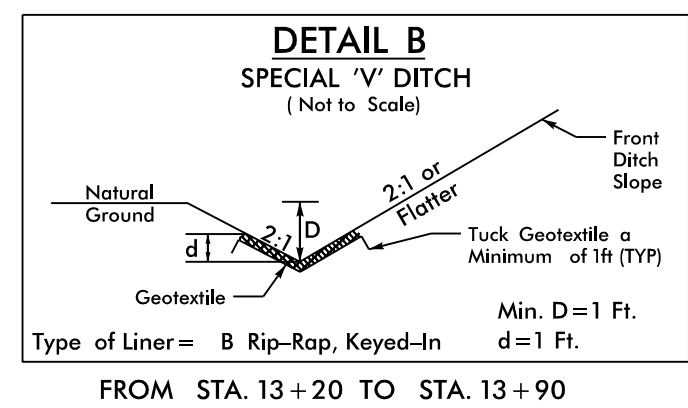
# CULVERT CONSTRUCTION SEQUENCE STA. 14+75 -L-

## INTERMEDIATE PHASE III



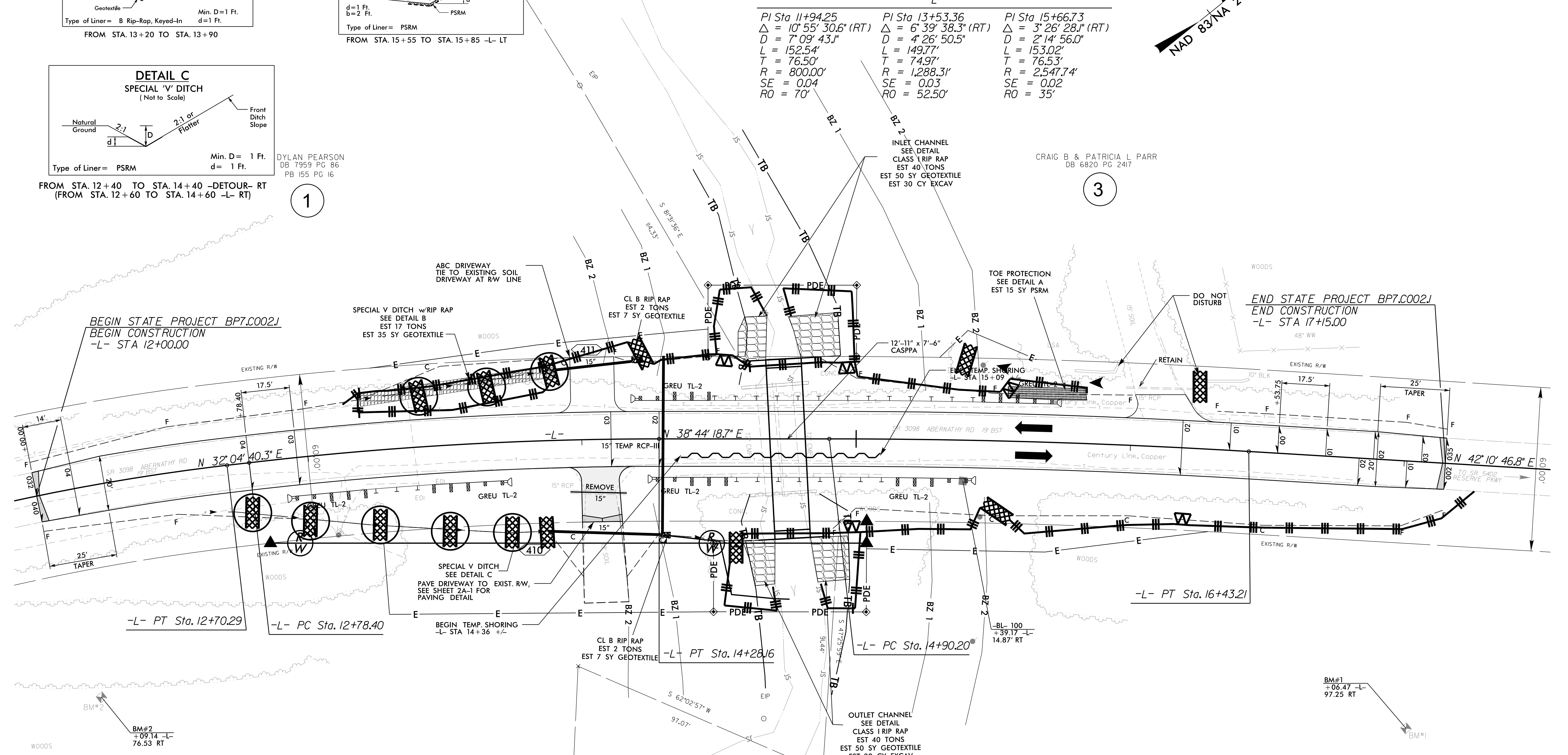
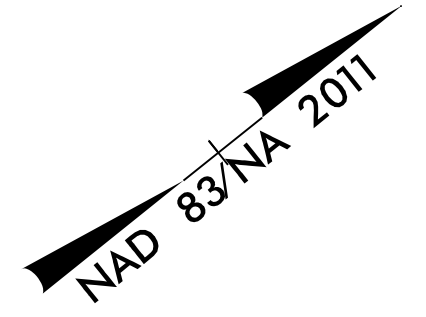
## CULVERT CONSTRUCTION PHASE 3

1. CONNECT PORTIONS OF 12'-11" x 7'-6" CASPPA AND OUTLET PROTECTION.
2. REMOVE PUMPS, DISSIPATOR PADS, AND IMPERVIOUS DIKES 1 AND 2.
3. REMOVE AS MUCH OF TEMPORARY 15" RCP-III AS POSSIBLE. PLUG AND FILL REMAINING.
4. CONSTRUCT PROPOSED DITCH AND RIPRAP PAD FROM DRIVEWAY PIPE OUTLET TO STREAM.
5. FINISH CONSTRUCTING PROPOSED ROADWAY AND INSTALL FINAL PHASE EROSION CONTROL MEASURES.



DYLAN PEARSON  
DB 7959 PG 86  
PB 155 PG 16

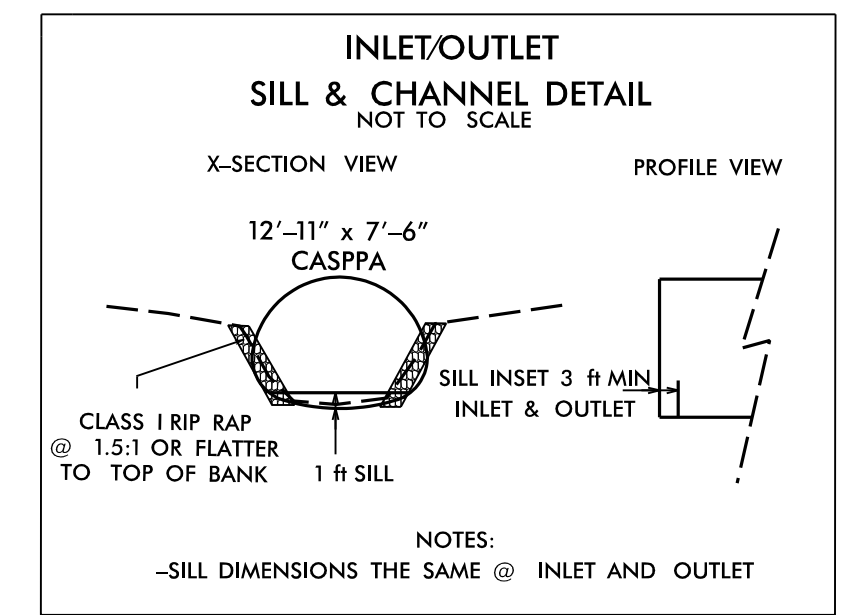
| Station  | PI       | Delta              | D            | L       | T      | R         | SE   | RO     |
|----------|----------|--------------------|--------------|---------|--------|-----------|------|--------|
| 11+94.25 | 11+94.25 | 10° 55' 30.6" (RT) | 7.09' 43.1"  | 152.54' | 76.50' | 800.00'   | 0.04 | 70'    |
| 13+53.36 | 13+53.36 | 6° 39' 38.3" (RT)  | 4.26' 50.5"  | 149.77' | 74.97' | 1,288.31' | 0.03 | 52.50' |
| 15+66.73 | 15+66.73 | 3° 26' 28.1" (RT)  | 2' 14' 56.0" | 153.02' | 76.53' | 2,547.74' | 0.02 | 35'    |



BEGIN STATE PROJECT BP7.C002.1  
BEGIN CONSTRUCTION  
-L- STA 12+00.00

END STATE PROJECT BP7.C002.1  
END CONSTRUCTION  
-L- STA 17+15.00

DONNA F LUCAS  
DB 7098 PG 2057



CITY OF BURLINGTON  
DB 2991 PG 814

CLYDE A & NANCY W HINLEY  
DB 2549 PG 656

12/10/2005 10:16:10 AM C:\RA\10704-03\20\_CADD\BP7.C002.1\Roadside\PSH\BP7-C002\_REL\EC-06\_PSH\_04\_FINAL.dgn  
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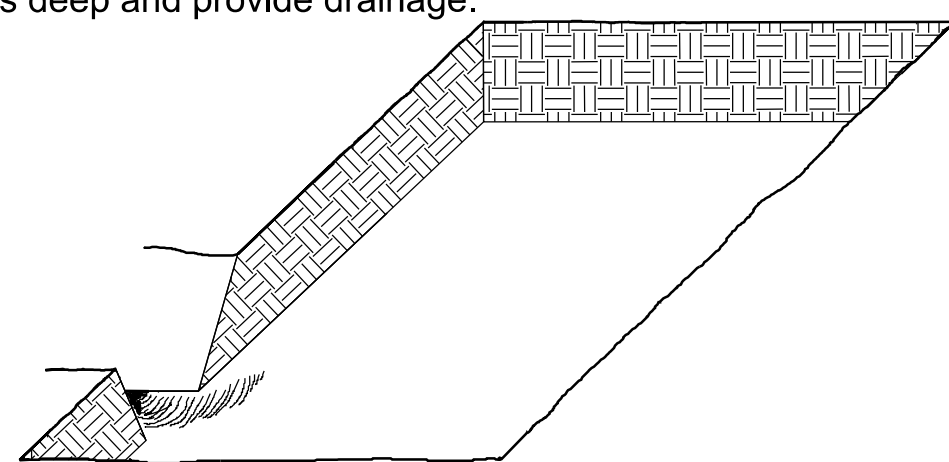
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|-----------------|-----------------------------|-------------|--------------|
| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.   | TOTAL SHEETS |
| N.C.            | BP7-C002                    | RF-1        |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION |              |
| BP7.C002.1      |                             | PE          |              |

# PLANTING DETAILS

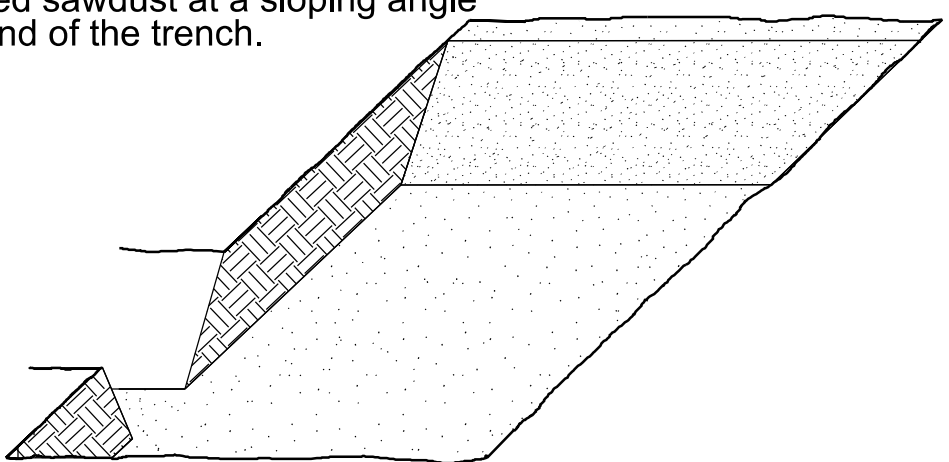
## SEEDLING / LINER BAREROOT PLANTING DETAIL

### HEALING IN

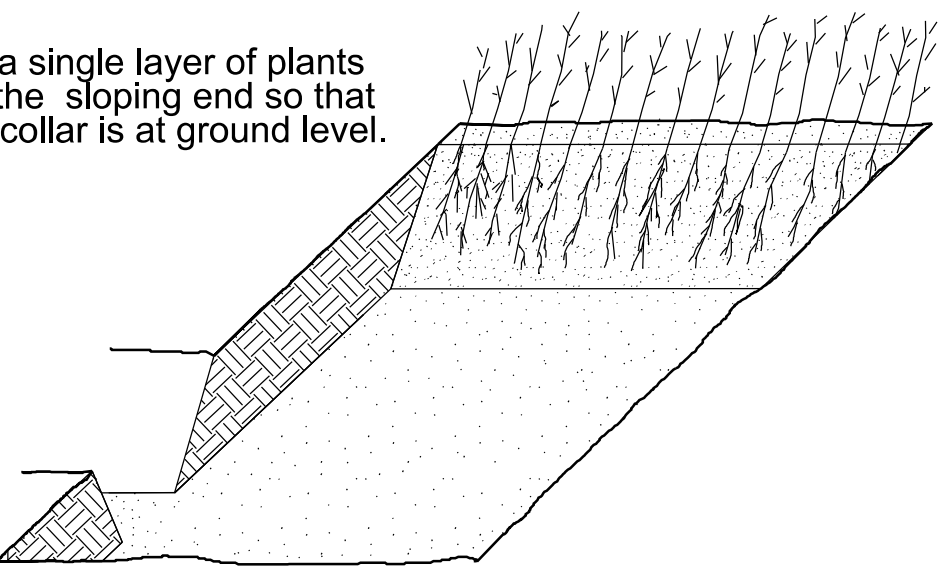
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



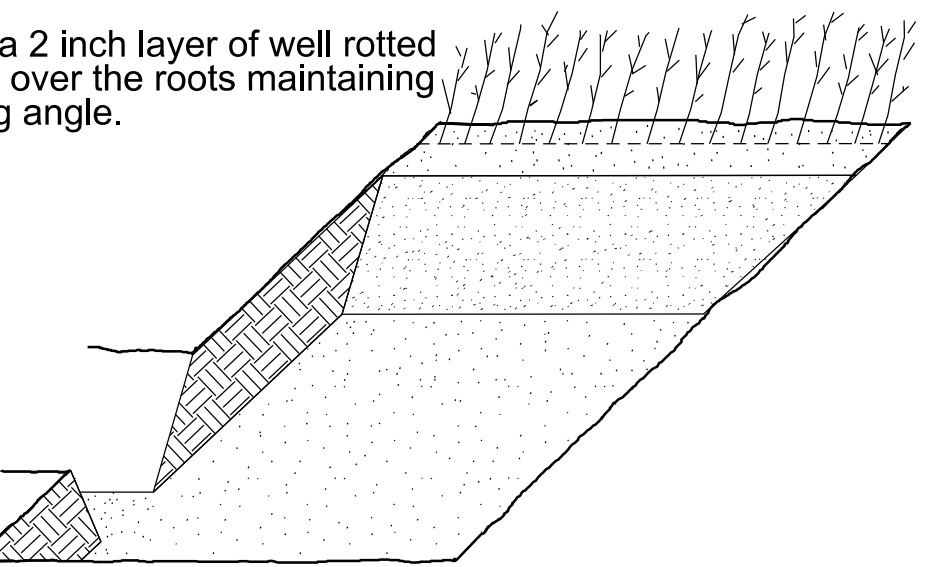
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



4. Place a single layer of plants against the sloping end so that the root collar is at ground level.

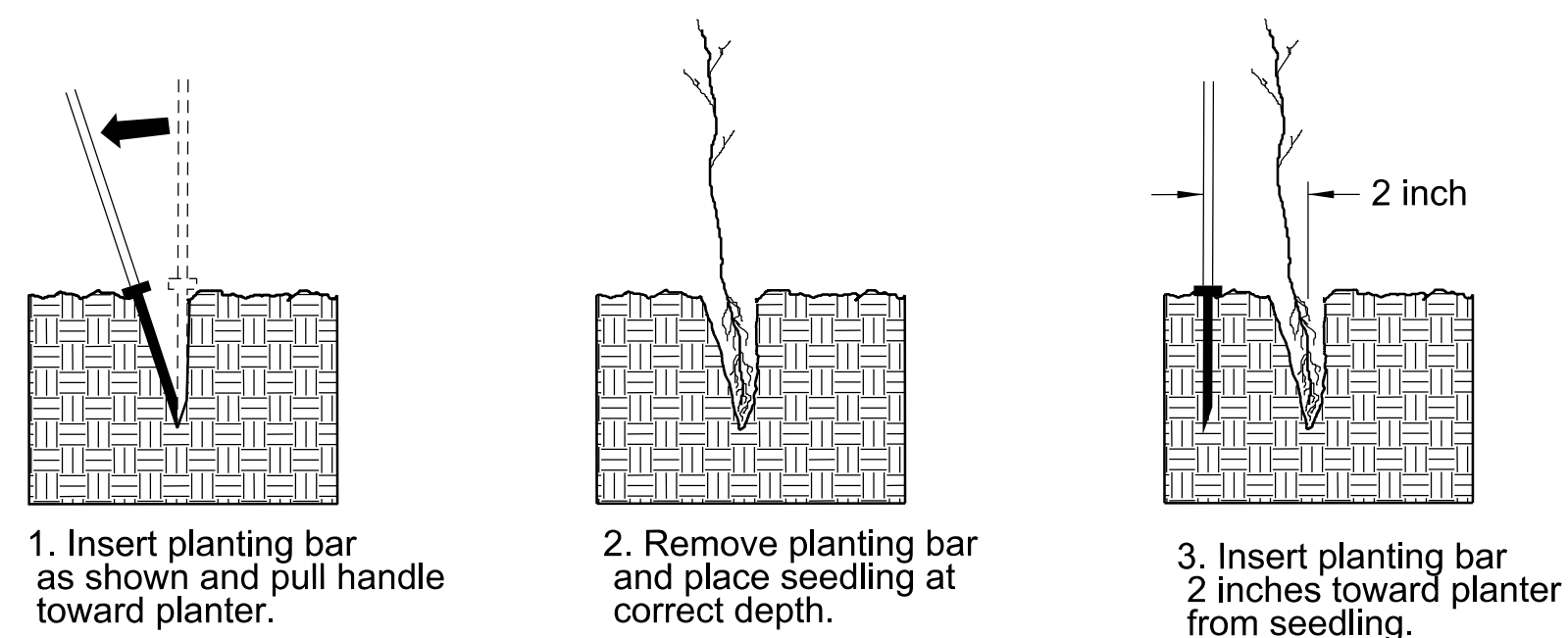


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.



6. Repeat layers of plants and sawdust as necessary and water thoroughly.

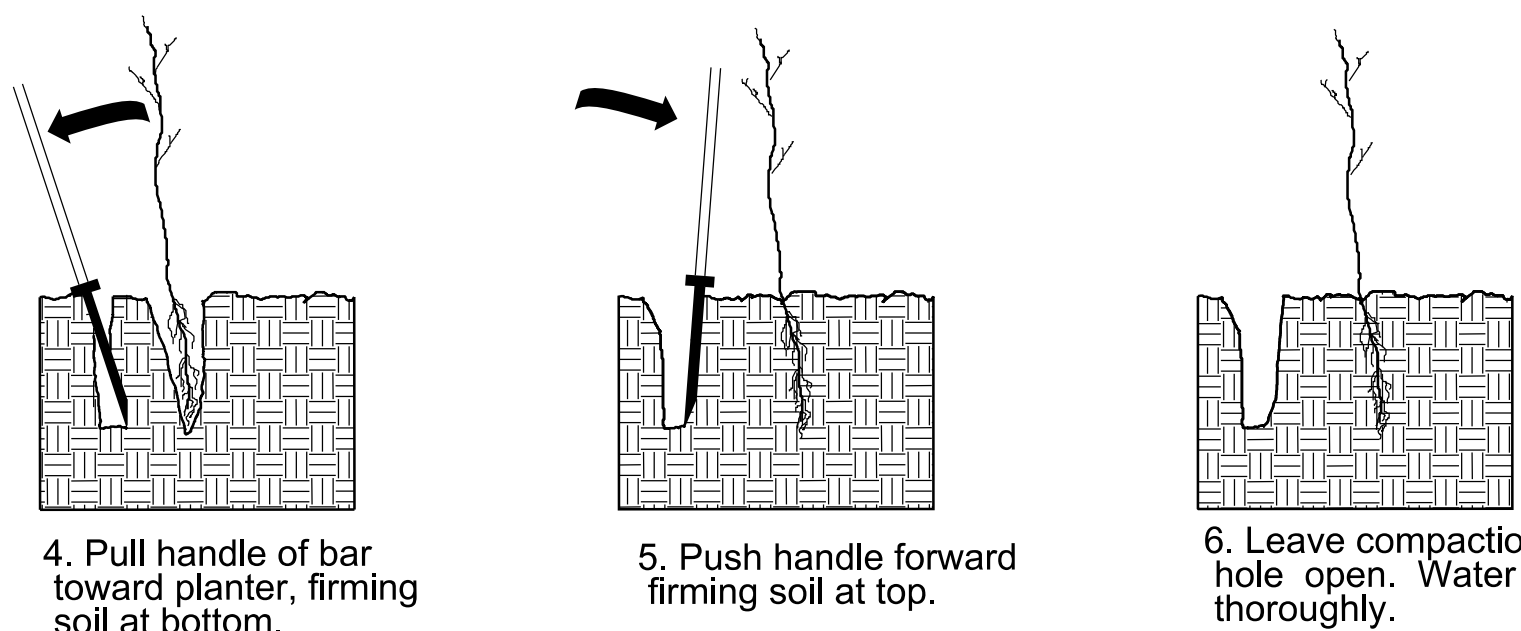
### DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR



1. Insert planting bar as shown and pull handle toward planter.

2. Remove planting bar and place seedling at correct depth.

3. Insert planting bar 2 inches toward planter from seedling.



4. Pull handle of bar toward planter, firming soil at bottom.

5. Push handle forward firming soil at top.

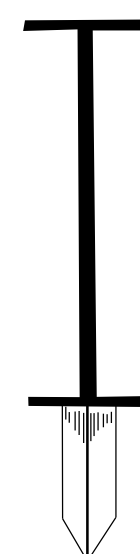
6. Leave compaction hole open. Water thoroughly.

### PLANTING NOTES:

**PLANTING BAG**  
During planting, seedlings shall be kept in a moist canvas bag or similar container to prevent the root systems from drying.



**KBC PLANTING BAR**  
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



**ROOT PRUNING**  
All seedlings shall be root pruned, if necessary, so that no roots extend more than 10 inches below the root collar.

# REFORESTATION

- TREE REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.

### REFORESTATION

MIXTURE, TYPE, SIZE, AND FURNISH SHALL CONFORM TO THE FOLLOWING:

|                             |                   |                  |
|-----------------------------|-------------------|------------------|
| 40% LIRIODENDRON TULIPIFERA | TULIP POPLAR      | 12 in - 18 in BR |
| 30% PLATANUS OCCIDENTALIS   | AMERICAN SYCAMORE | 12 in - 18 in BR |
| 30% BETULA NIGRA            | RIVER BIRCH       | 12 in - 18 in BR |

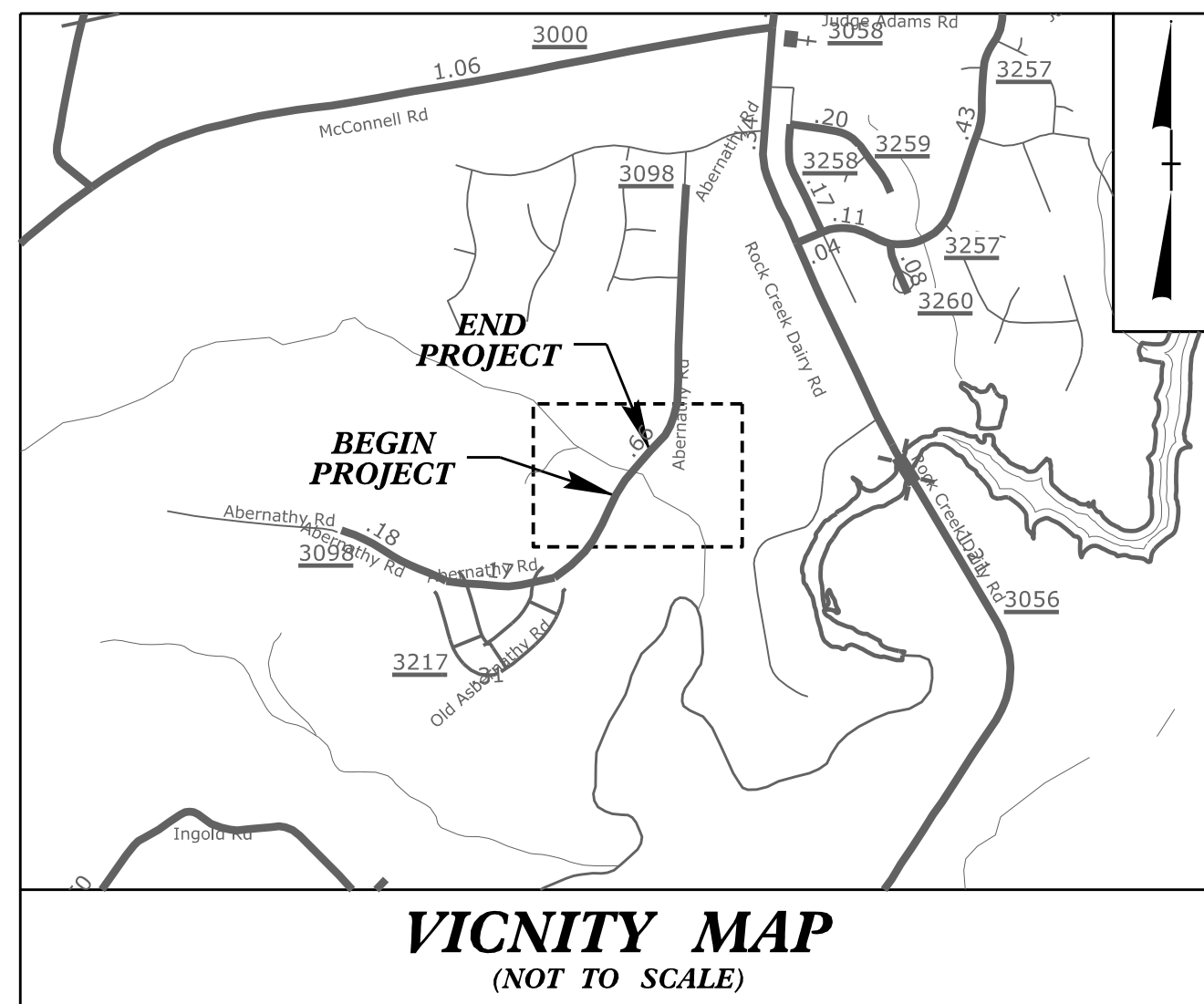
## REFORESTATION DETAIL SHEET

N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

09\_08/2019  
 10/23/2025  
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 4:15:44 PM

**CONTRACT: TIP PROJECT: BP7.C002.1**

See Sheet 1A For Index of Sheets



**VICINITY MAP**  
(NOT TO SCALE)

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

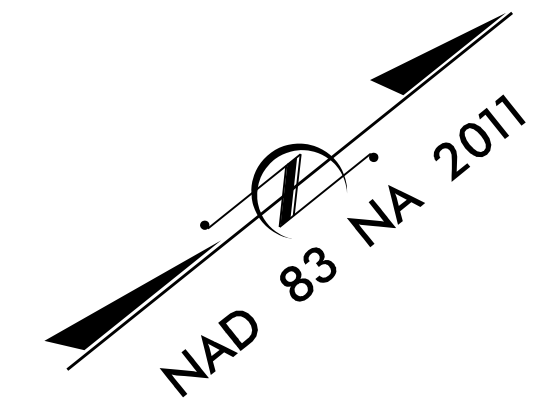
**UTILITIES BY OTHERS PLANS**  
**GUILFORD COUNTY**

**LOCATION: CULVERT 40-2179 OVER UT TO BIG ALAMANCE CREEK**  
**ON SR 3098 (ABERNATHY RD)**

**TYPE OF WORK: POWER & COMMUNICATIONS**

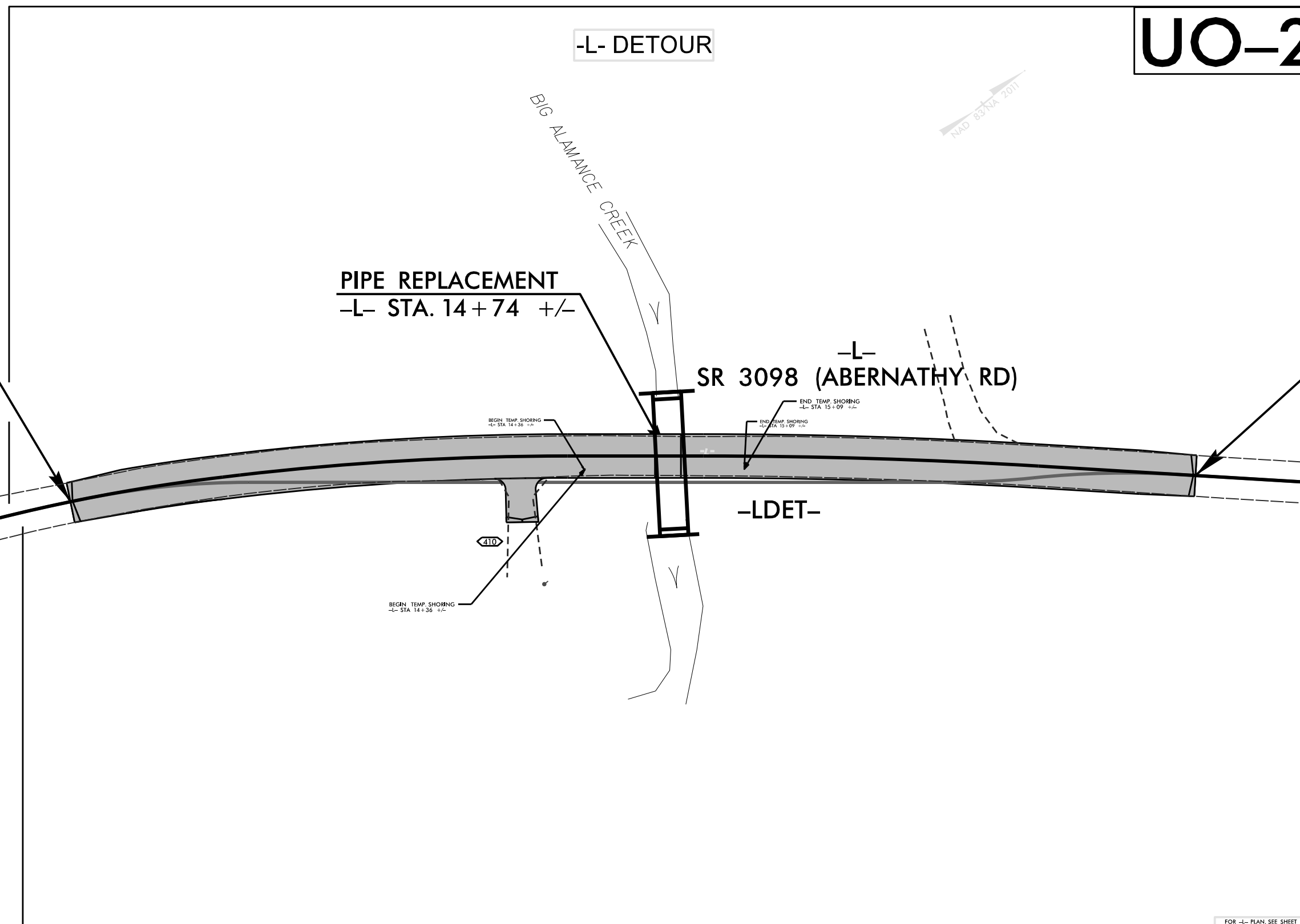
|            |           |
|------------|-----------|
| T.I.P. NO. | SHEET NO. |
| BP7.C002.1 | UO-1      |

**NOTE:**  
ALL UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR UTILITY WORK SHOWN ON THIS SHEET.



**BEGIN STATE PROJECT BP7.C002.1**  
**BEGIN CONSTRUCTION**  
**-L- STA. 12+00.00**

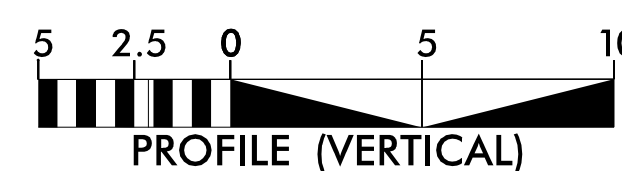
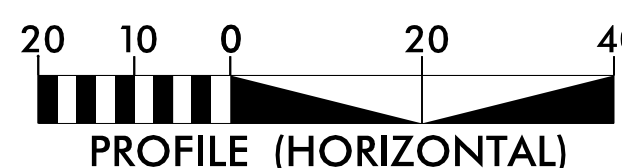
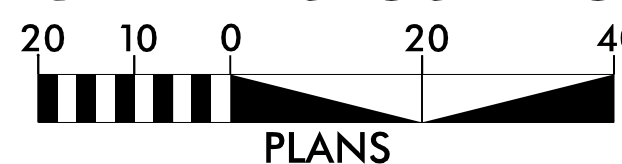
TO OLD  
ABERNATHY RD



**END STATE PROJECT BP7.C002.1**  
**END CONSTRUCTION**  
**-L- STA. 17+15.00**

TO RESERVE PKWY

**GRAPHIC SCALES**



**INDEX OF SHEETS**

| SHEET NO.:        | DESCRIPTION:    |
|-------------------|-----------------|
| UO-1              | TITLE SHEET     |
| UO-2 THRU UO-2B-1 | UBO PLAN SHEETS |

**UTILITY OWNERS WITH CONFLICTS**

- (A) POWER - DUKE ENERGY
- (B) COMMUNICATION - BRIGHTSPEED
- (C) COMMUNICATION - CHARTER COMMUNICATIONS

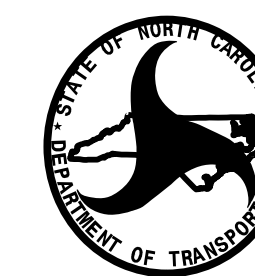
PREPARED IN THE OFFICE OF:

**Weston & Sampson**

WSE of North Carolina, PC  
2052 Energy Drive  
Phone: 919.297.0220

NC  
License:  
C-4847  
Apex, NC 27502  
westonandsampson.com

**J. FORBES** UTILITY PROJECT MANAGER  
**D. VONDENHUEVEL** PROJECT UTILITY COORDINATOR

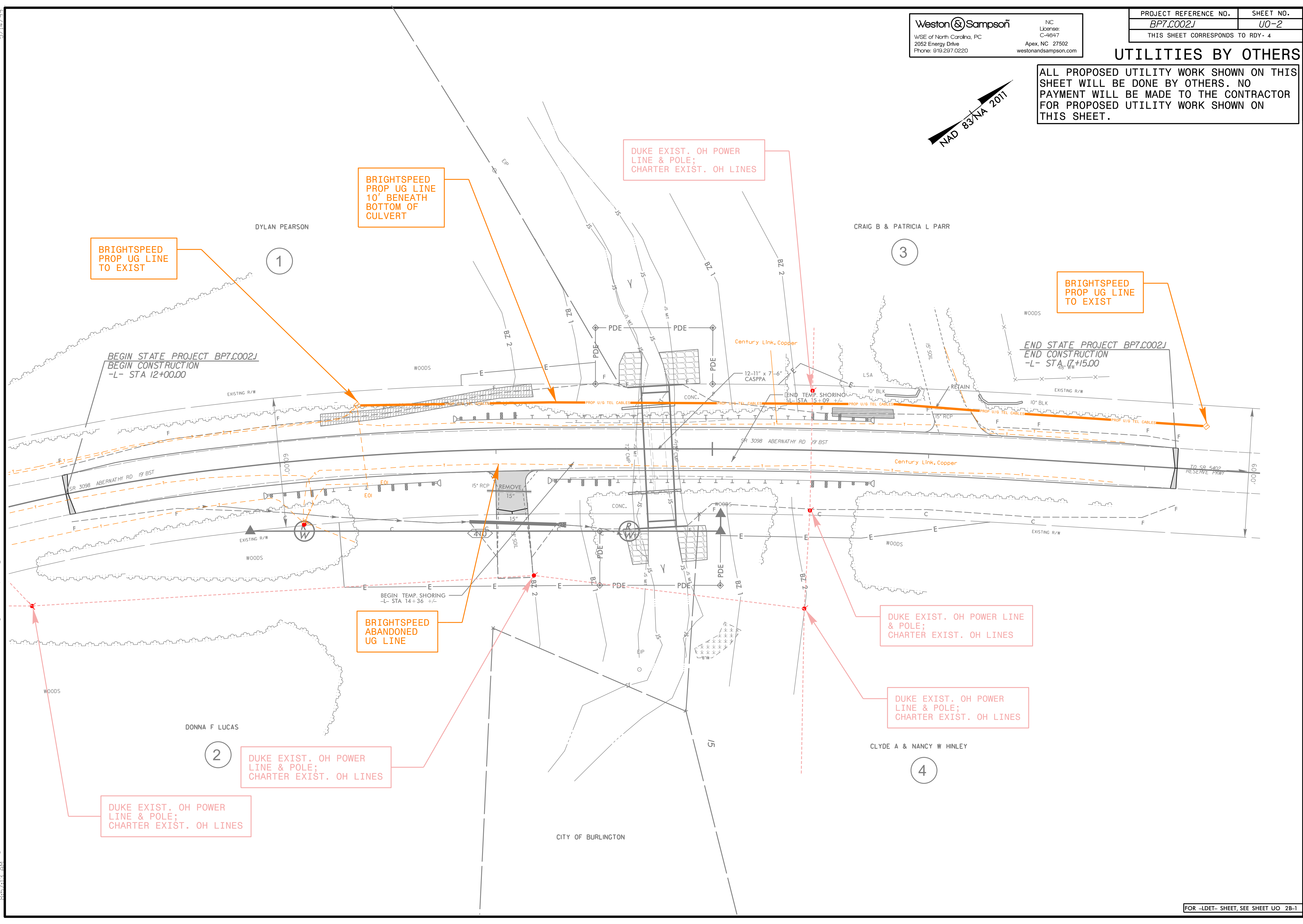


**DIVISION OF HIGHWAYS**  
**UTILITIES UNIT**  
1555 MAIL SERVICES CENTER  
RALEIGH, NC 27699-1555  
PHONE (919) 707-6690  
FAX (919) 250-4151

**DANIEL DAGENHART** BRIDGE PROGRAM MANAGER  
**JAMES B YATES, PE** UTILITY ENGINEER  
**MATT SARGALIS** UTILITY COORDINATOR

### UTILITIES BY OTHERS

ALL PROPOSED UTILITY WORK SHOWN ON THIS SHEET WILL BE DONE BY OTHERS. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR PROPOSED UTILITY WORK SHOWN ON THIS SHEET.



5/14/2011  
 10/23/2025  
 ENG22-0590  
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 Rd.BP7.C002.1\Utilities\Coordination\UBO\BP7.C002.1.ut\_rdy04.U002.psh.dgn

