

**This electronic collection of documents is provided
for the convenience of the user
and is Not a Certified Document –**

**The documents contained herein were originally issued
and sealed by the individuals whose names and license
numbers appear on each page, on the dates appearing
with their signature on that page.**

**This file or an individual page
shall not be considered a certified document.**

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

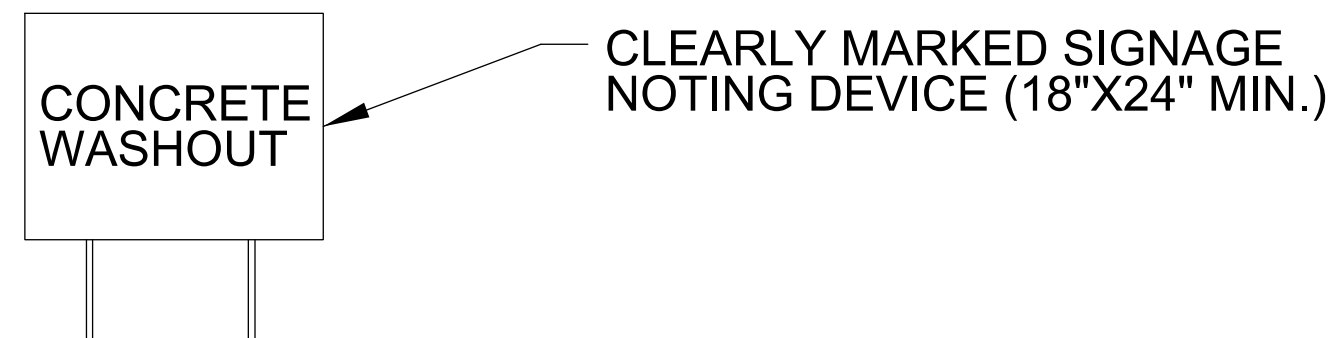
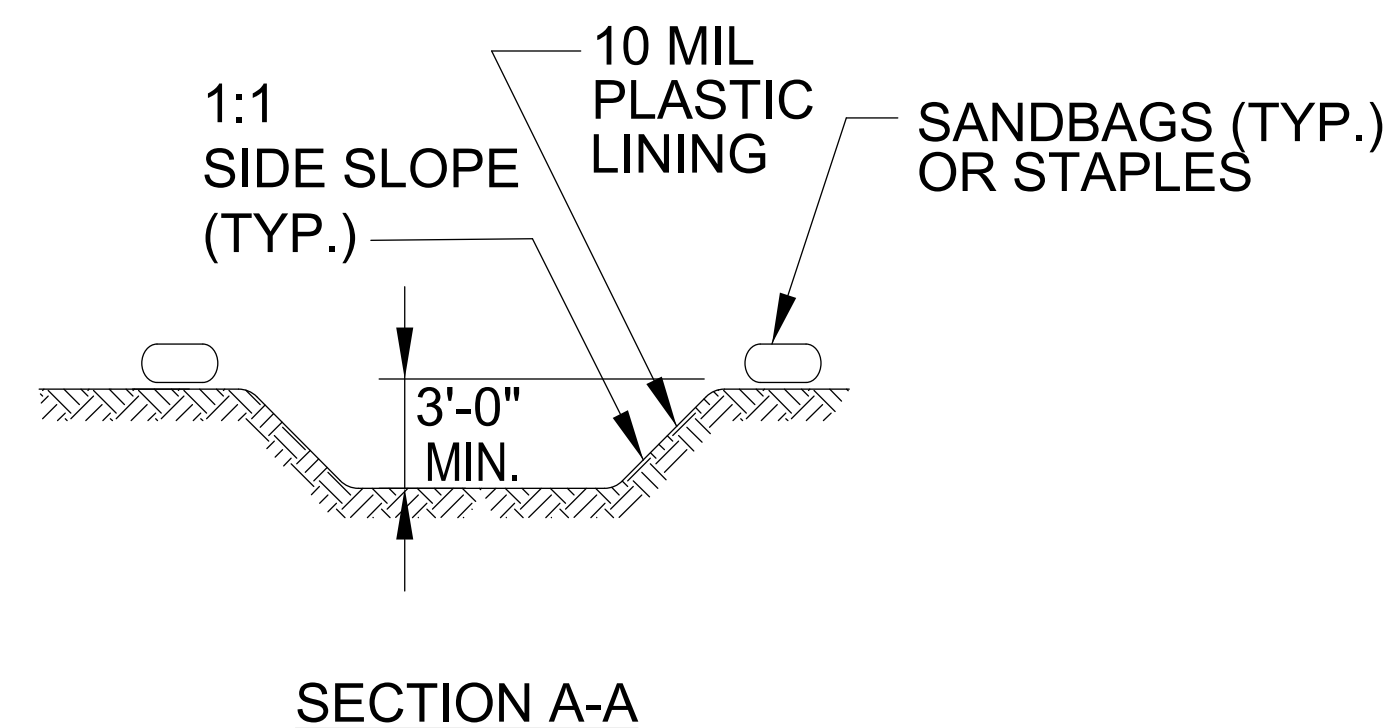
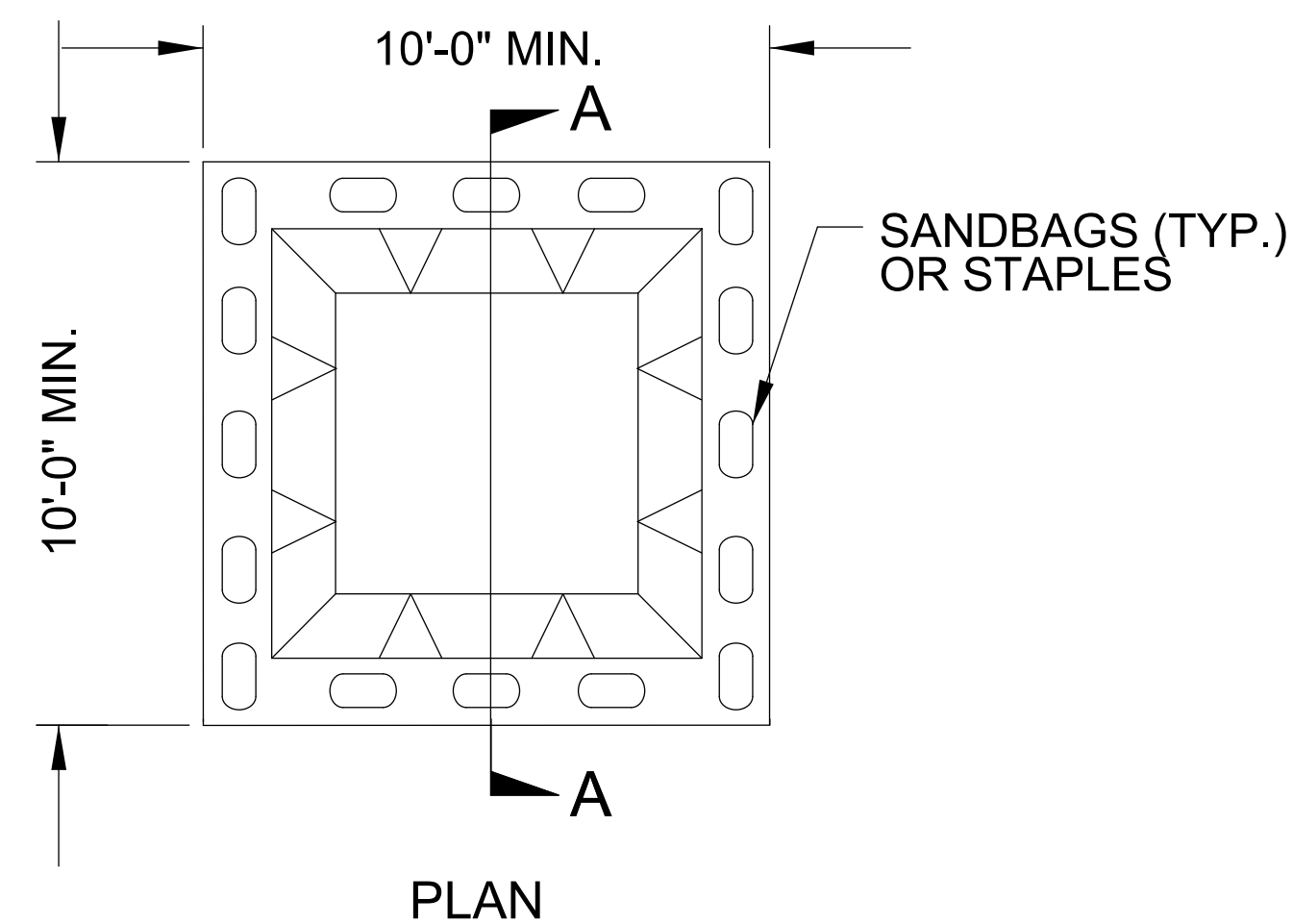
| | |
|--|---------------------------|
| PROJECT REFERENCE NO. A-0009CE | SHEET NO. EC-02 |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

EROSION & SEDIMENT CONTROL LEGEND

| <u>Std. #</u> | <u>Description</u> | <u>Symbol</u> | <u>Std. #</u> | <u>Description</u> | <u>Symbol</u> |
|---------------|----------------------------------|---------------|---------------|--|---------------|
| 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 | | | | |

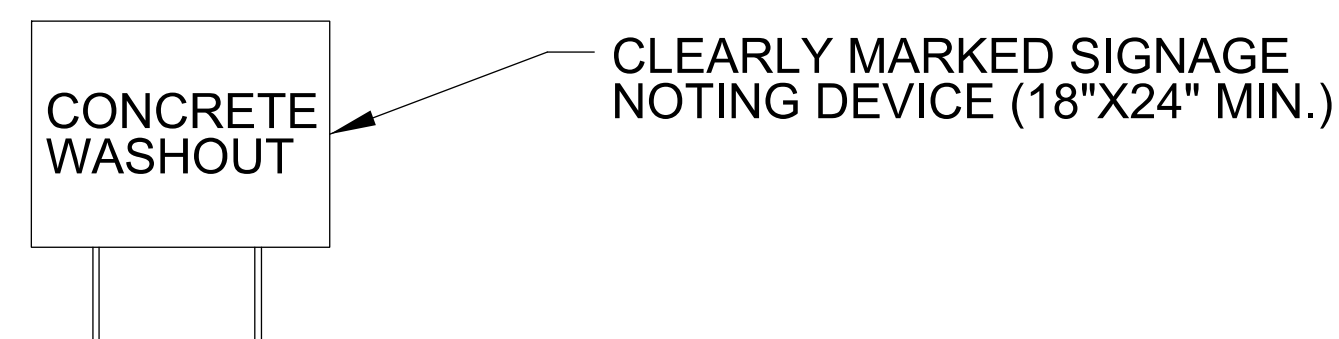
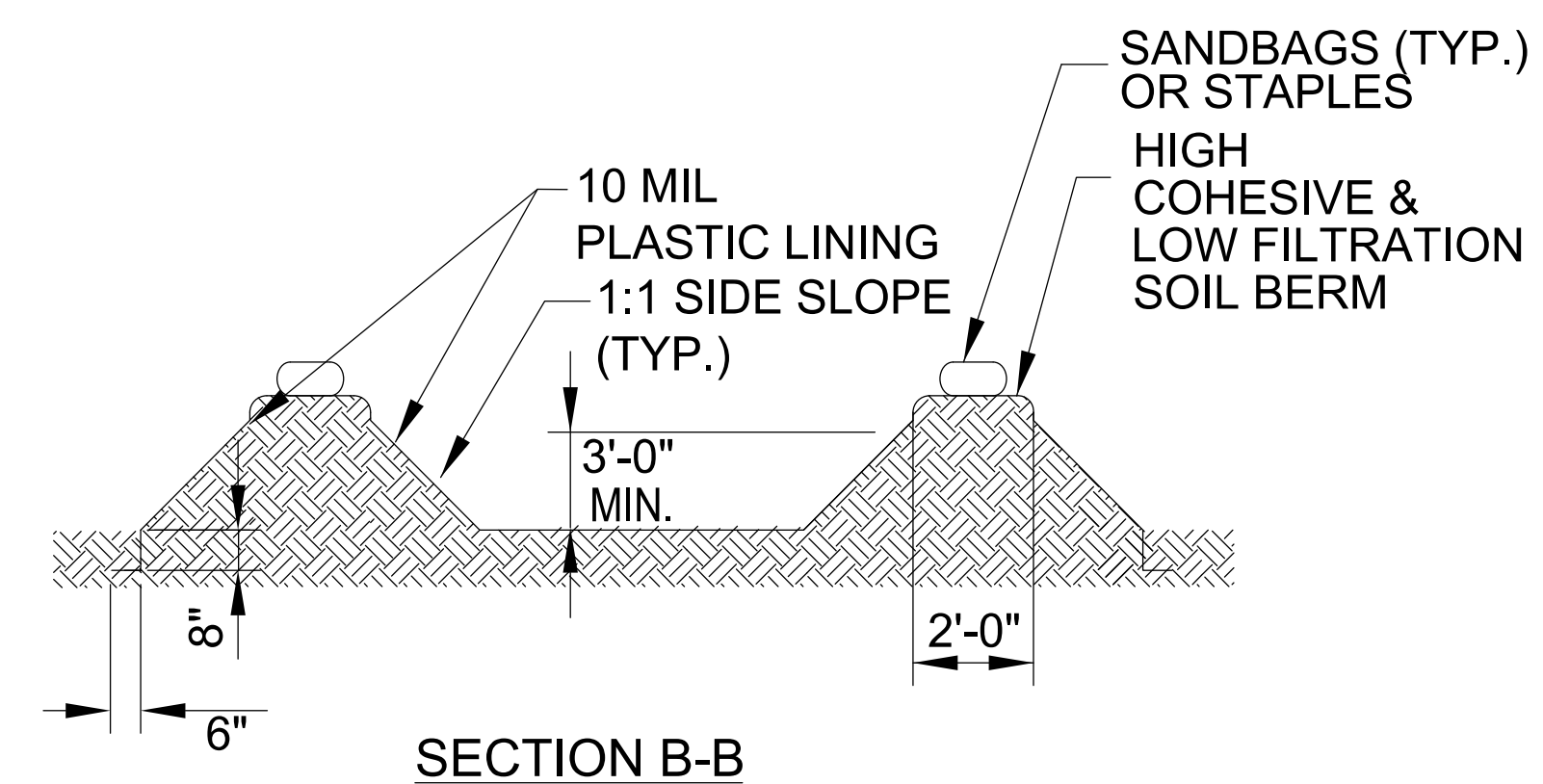
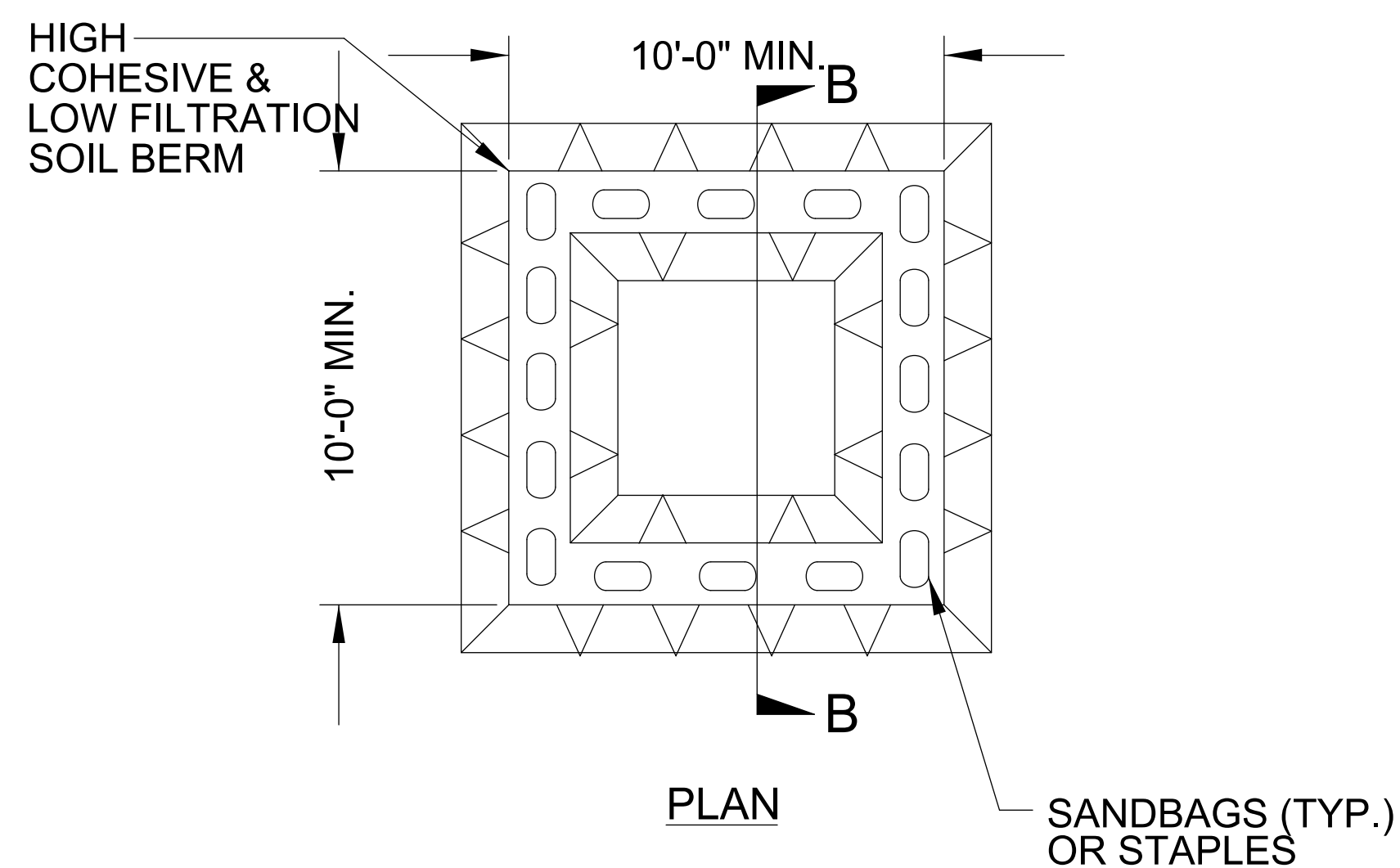
| | |
|--|---------------------------|
| PROJECT REFERENCE NO. <i>A-0009CE</i> | SHEET NO. <i>EC-2A</i> |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

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.



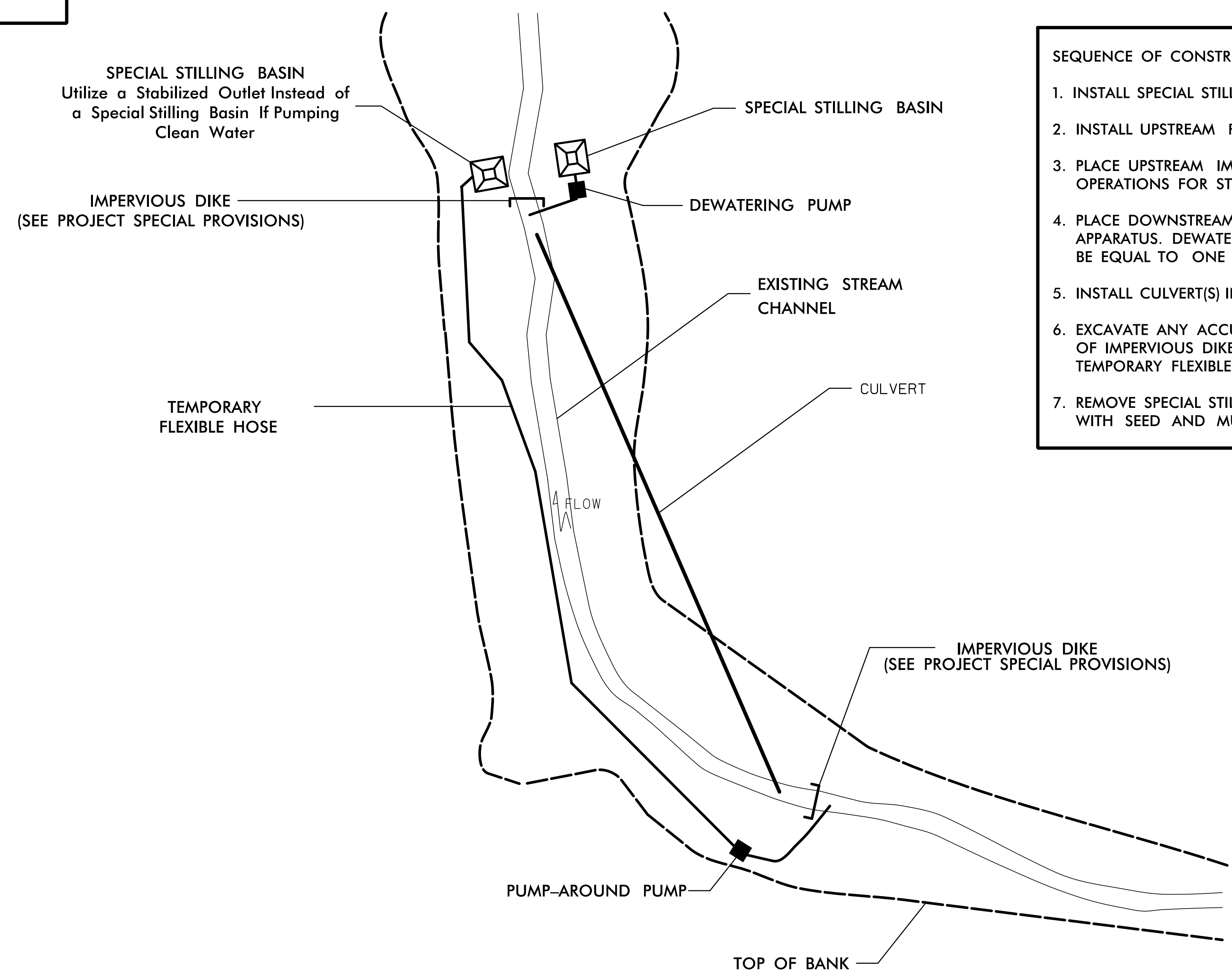
ABOVE GRADE WASHOUT STRUCTURE
NOT TO SCALE

- 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.

| | |
|--|---------------------------|
| PROJECT REFERENCE NO. <i>A-0009CE</i> | SHEET NO. <i>EC-2B</i> |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

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.

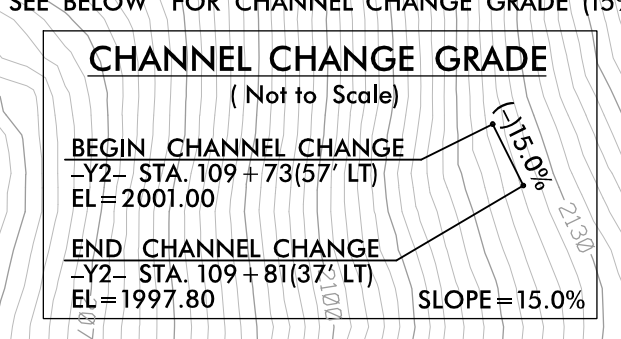
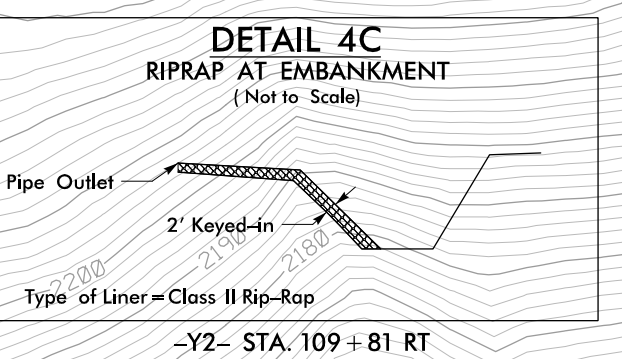
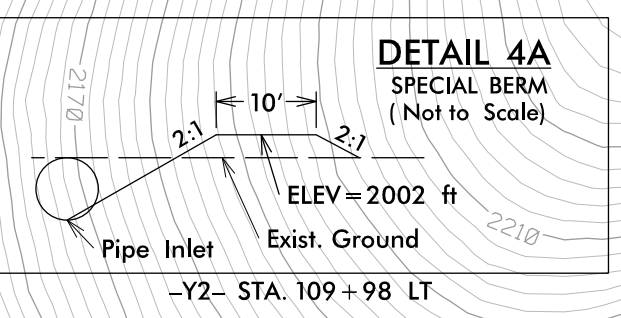
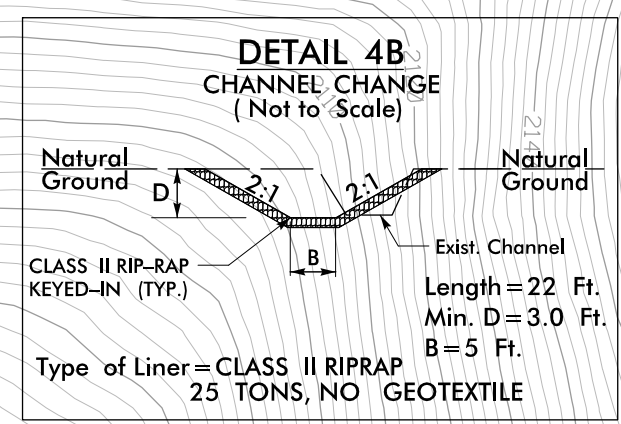
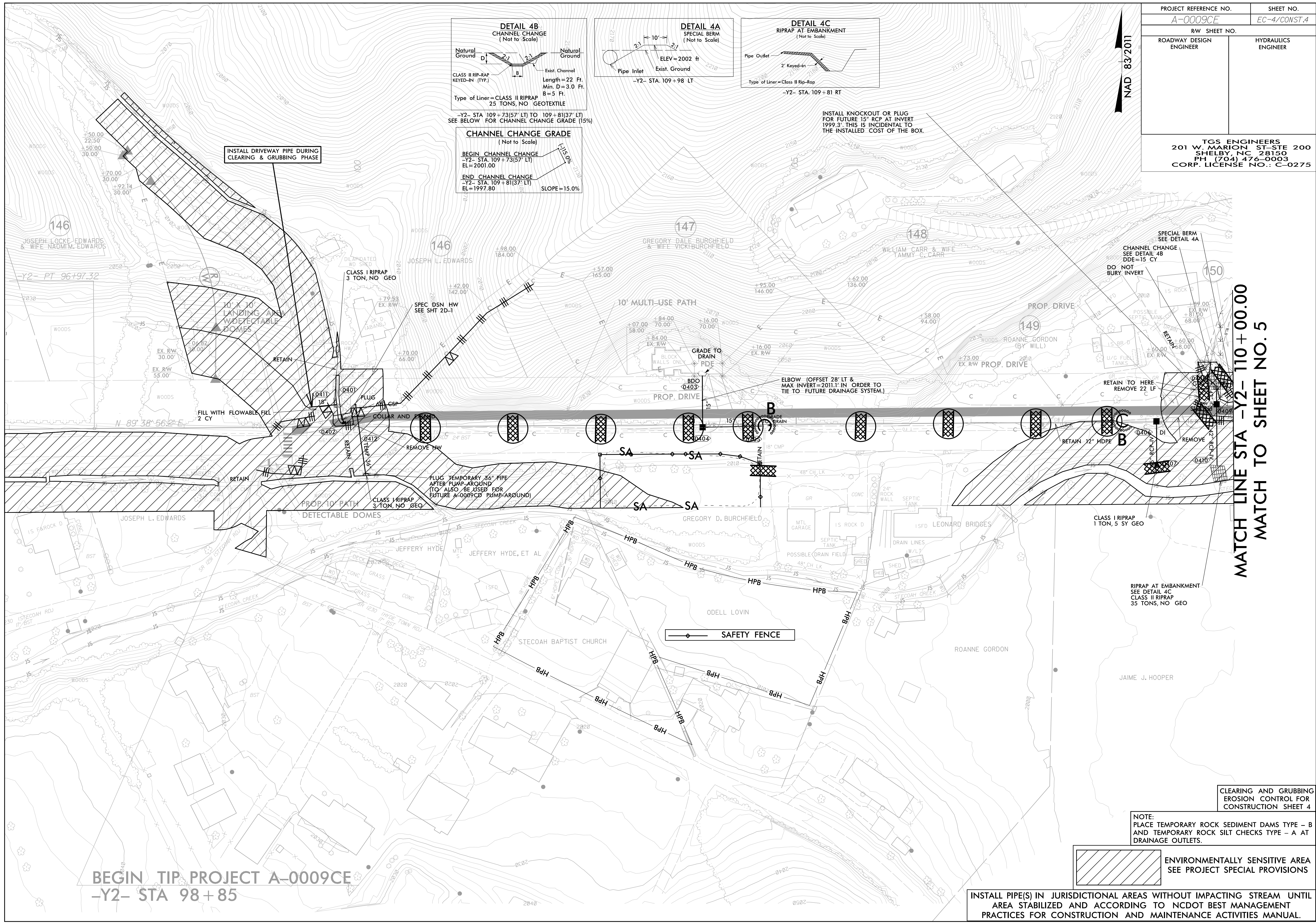
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

| | |
|--|--------------------------|
| PROJECT REFERENCE NO. <i>A-0009CE</i> | SHEET NO. <i>EC-3</i> |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

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. 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 |

| | |
|---|---------------------------|
| PROJECT REFERENCE NO. A-0009CE | SHEET NO. EC-4/CONST.4 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |



INSTALL KNOCKOUT OR PLUG FOR FUTURE 15" RCP AT INVERT 1997.3'. THIS IS INCIDENTAL TO THE INSTALLED COST OF THE BOX.

MATCH LINE STA -Y2- 110+00.00
MATCH TO SHEET NO. 5

BEGIN TIP PROJECT A-0009CE
-Y2- STA 98+85

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

ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

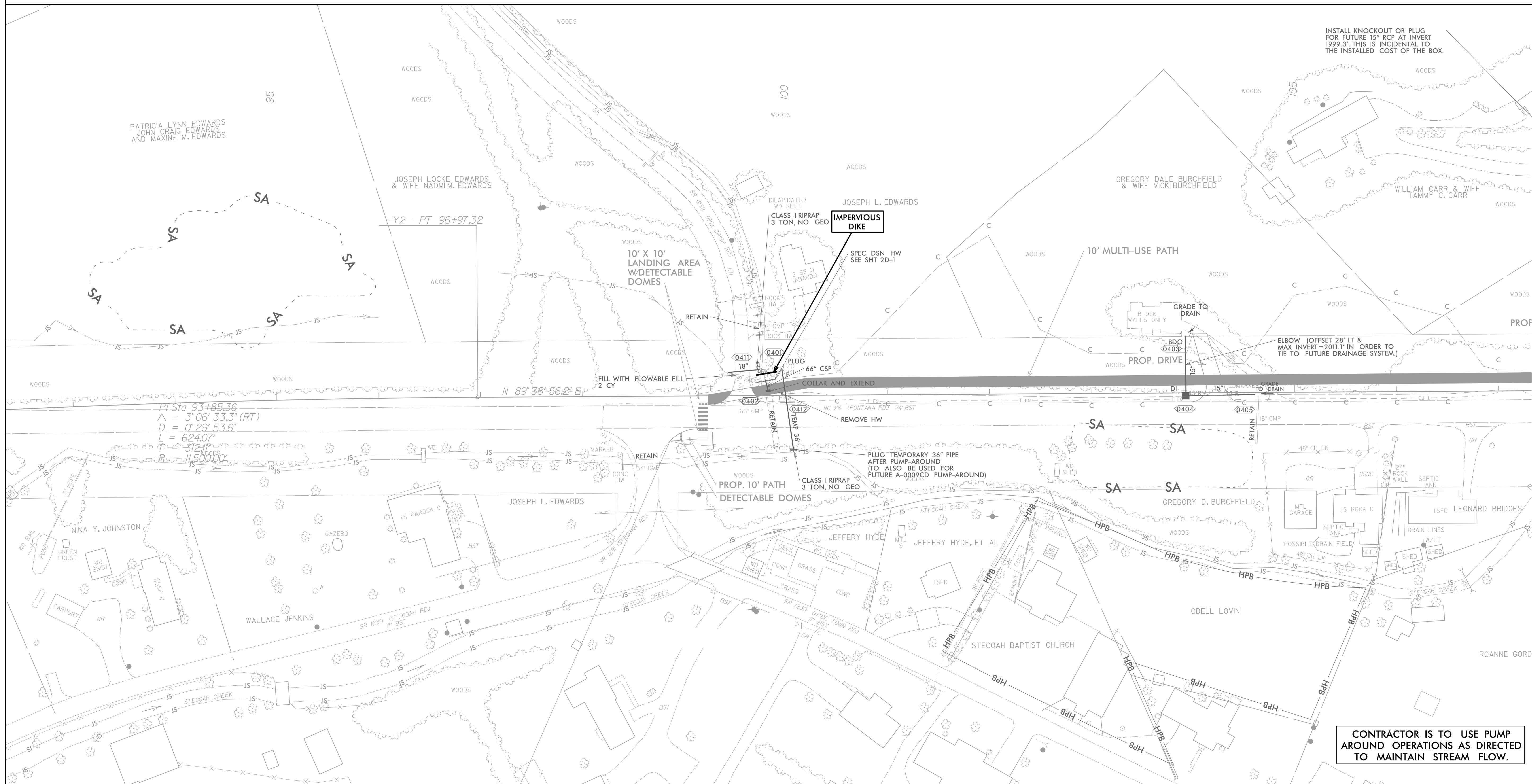
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| A-0009CE | EC-04A/CONST.4 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

PIPE CONSTRUCTION SEQUENCE STA. 99+83 -Y2-

1. INSTALL 18" DRIVEWAY PIPE #0411 DURING CLEARING AND GRUBBING PHASE.
2. INSTALL APPROXIMATELY 80 LF OF 36" TEMPORARY PIPE #0412. REFER TO TRAFFIC CONTROL PLANS.
3. INSTALL IMPERVIOUS DIKE AND BEGIN PUMP AROUND THROUGH 36" TEMPORARY PIPE.
4. DEWATER WORK SITE AS NEEDED INTO SPECIAL STILLING BASIN(S).
5. CONSTRUCT 66" CSP PIPE EXTENSION AND HEADWALL.
6. REMOVE IMPERVIOUS DIKE AND REESTABLISH STREAM ACCORDING TO CONST. PLANS.
7. PLUG 36" TEMPORARY PIPE ACCORDING TO DRAINAGE PLANS.

NAD 83/2011



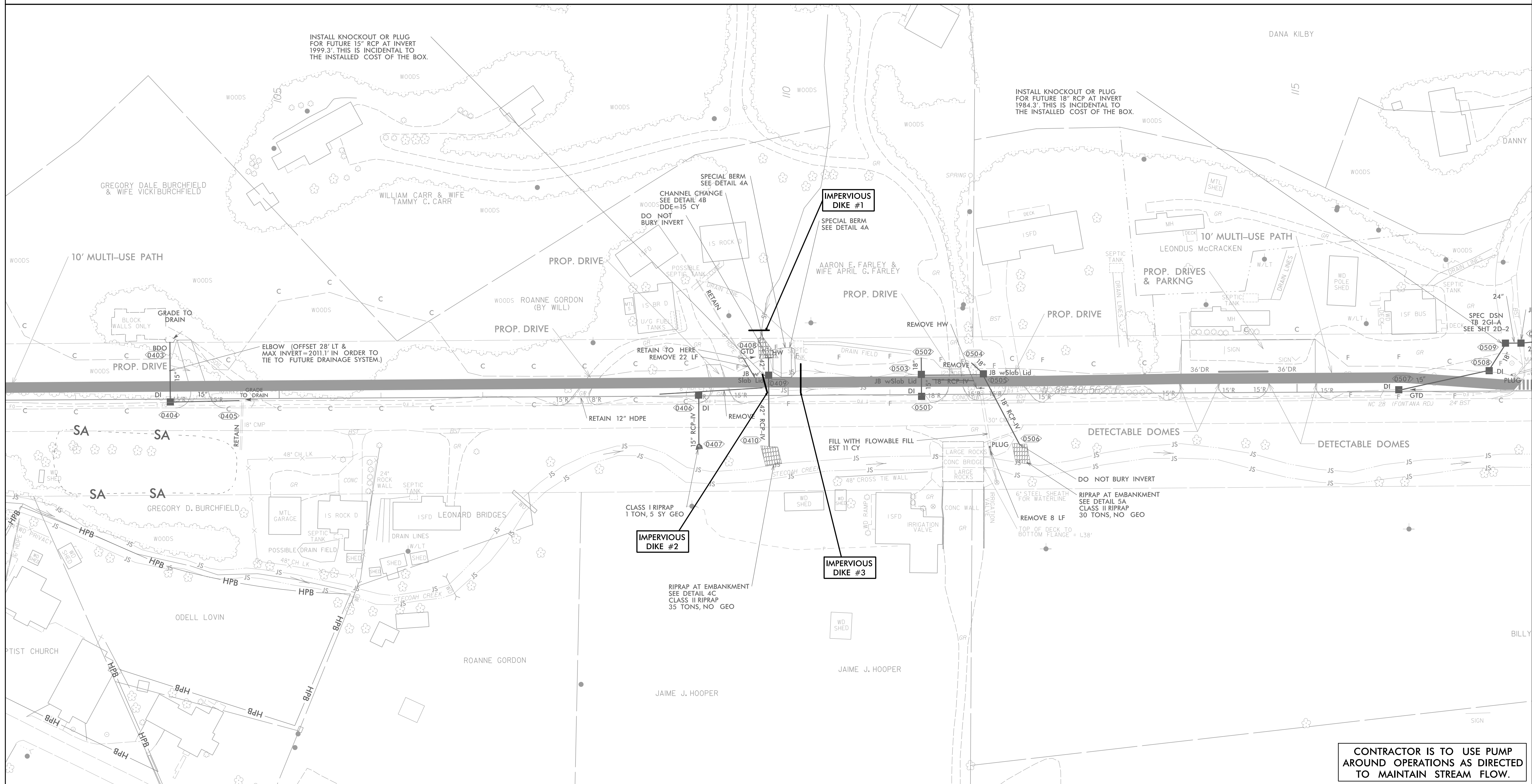
CONTRACTOR IS TO USE PUMP AROUND OPERATIONS AS DIRECTED TO MAINTAIN STREAM FLOW.

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| A-0009CE | EC-04B/CONST.4 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

PIPE CONSTRUCTION SEQUENCE STA. 109+81 -Y2-

1. INSTALL IMPERVIOUS DIKES #1, #2, AND #3.
2. BEGIN PUMP AROUND OPERATION BY PUMPING TOWARD 12" HDPE DRIVEWAY PIPE.
3. DEWATER WORK SITE AS NEEDED INTO SPECIAL STILLING BASIN(S).
4. CONSTRUCT CHANNEL CHANGE AND 42" RCP-IV PIPE SYSTEM FROM #0408 TO #0410.
5. REMOVE IMPERVIOUS DIKES AND REESTABLISH STREAM ACCORDING TO CONST. PLANS.
6. FILL IN EXISTING STREAMBED AND CONSTRUCT DRAINAGE SYSTEM FROM #0501 TO #0506.

NAD 83/2011



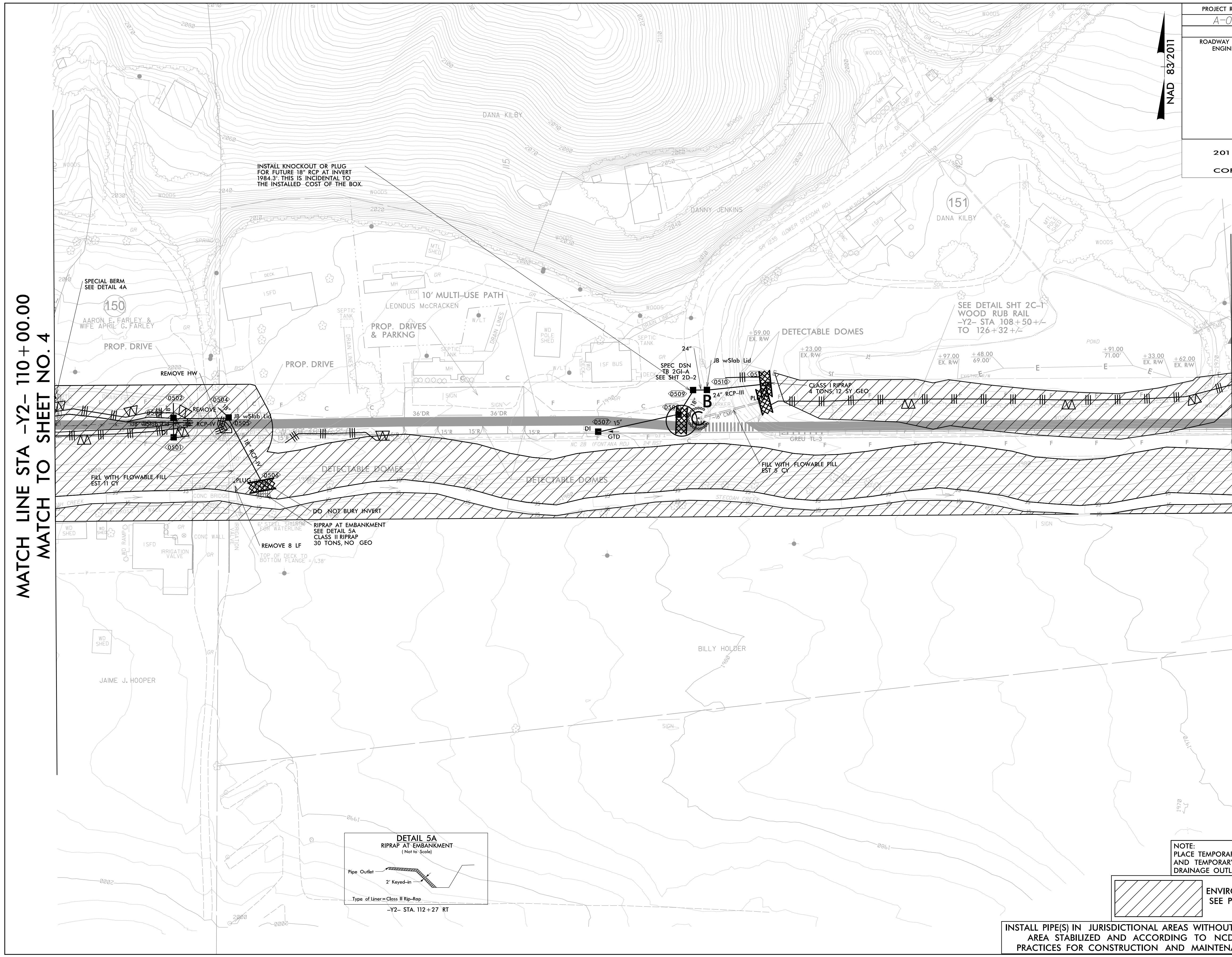
CONTRACTOR IS TO USE PUMP AROUND OPERATIONS AS DIRECTED TO MAINTAIN STREAM FLOW.

| | | | |
|---|--|---------------------------|--|
| PROJECT REFERENCE NO. A-0009CE | | SHEET NO. EC-5/CONST.5 | |
| RW SHEET NO. | | | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |
| TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | | | |

NAD 83/2011

MATCH LINE STA -Y2- 110+00.00
MATCH TO SHEET NO. 4

MATCH LINE STA -Y2- 123+00.00
MATCH TO SHEET NO. 6



INSTALL KNOCKOUT OR PLUG FOR FUTURE 18" RCP AT INVERT 1984.37; THIS IS INCIDENTAL TO THE INSTALLED COST OF THE BOX.

SPECIAL BERM SEE DETAIL 4A

AARON E. FARLEY & WIFE APRIL G. FARLEY

PROP. DRIVE

REMOVE HW

PROP. DRIVE

10' MULTI-USE PATH

LEONDUS McCRACKEN

PROP. DRIVES & PARKING

WD POLE SHED

SEPTIC TANK

DRAIN LINES

DETECTABLE DOMES

24" RCP-III

CLASS I RIPRAP 4 TONS, 12 SY GEO

SEE DETAIL SHT 2C-1 WOOD RUB RAIL -Y2- STA 108+50+/- TO 126+32+/-

FILL WITH FLOWABLE FILL EST 11 CY

REMOVE HW

REMOVE 8 LF

DO NOT BURY INVERT

RIPRAP AT EMBANKMENT SEE DETAIL 5A CLASS II RIPRAP 30 TONS, NO GEO

DETECTABLE DOMES

DETECTABLE DOMES

FILL WITH FLOWABLE FILL EST 5 CY

TOP OF DECK TO BOTTOM FLANGE = 1.38'

BILLY HOLDER

IRRIATION VALVE

WD SHED

WD SHED

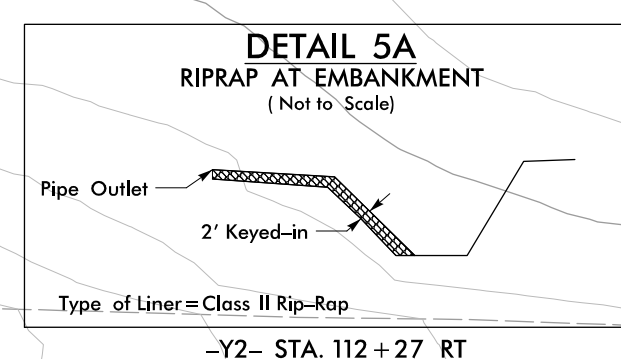
WD SHED

WD SHED

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

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

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

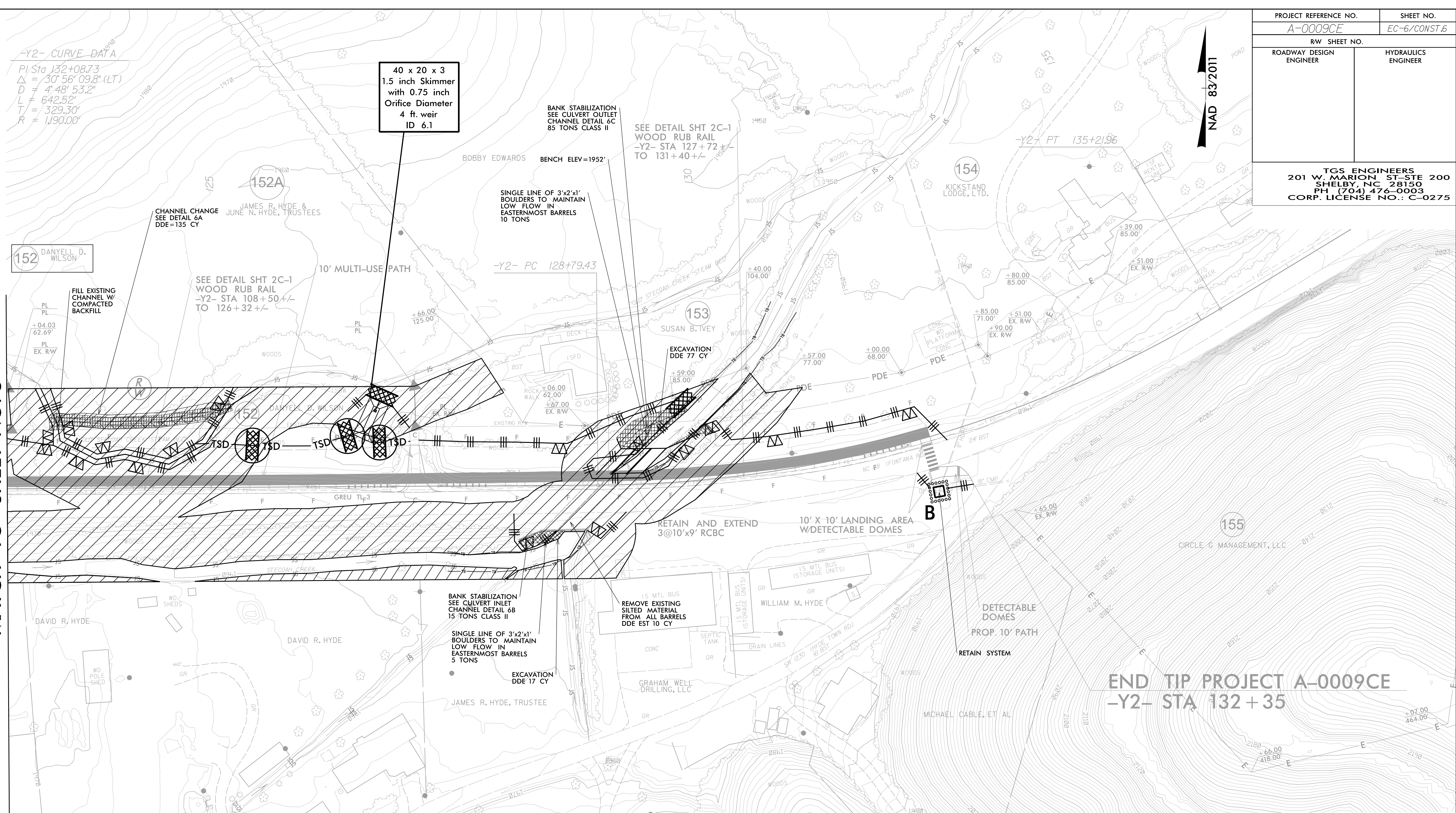


INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

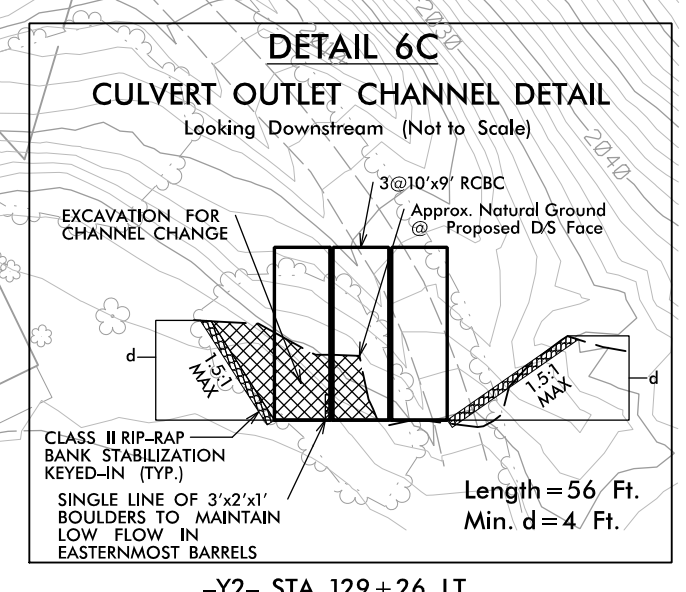
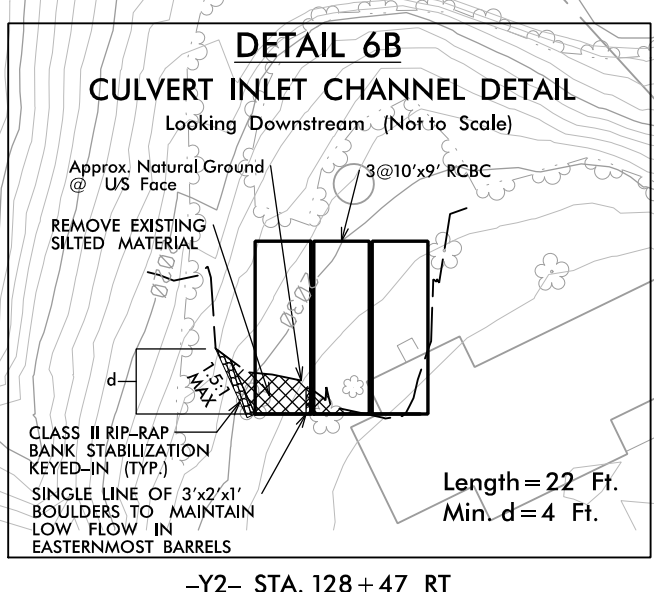
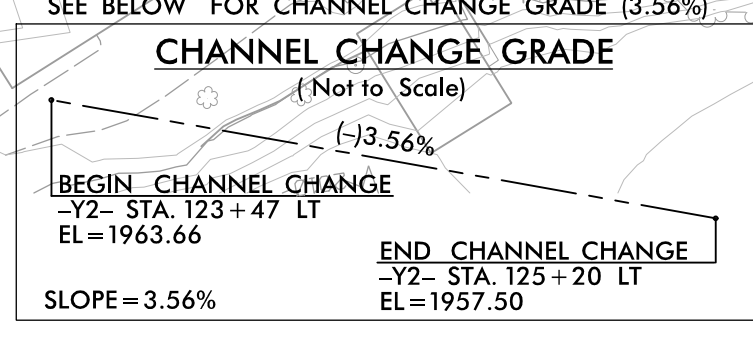
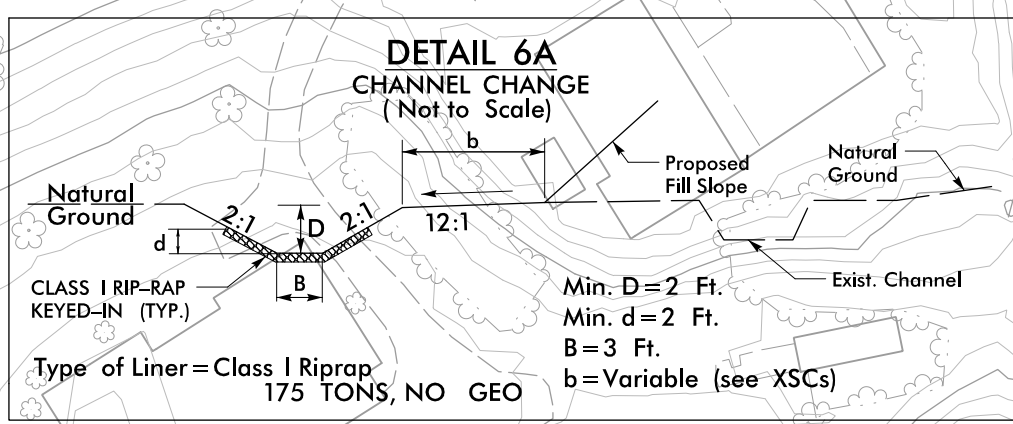
| | | | |
|---|--|---------------------------|--|
| PROJECT REFERENCE NO. A-0009CE | | SHEET NO. EC-6/CONST.6 | |
| RW SHEET NO. | | | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |
| TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | | | |

Y2- CURVE DATA
 P/ Sta 132+08.73
 $\Delta = 30^{\circ} 56' 09.8" (LT)$
 $D = 4' 48" 53.2"$
 $L = 642.52'$
 $T = 329.30'$
 $R = 1,190.00'$

MATCH LINE STA -Y2- 123+00.00
MATCH TO SHEET NO. 5



END TIP PROJECT A-0009CE
-Y2- STA 132 + 35



CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

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

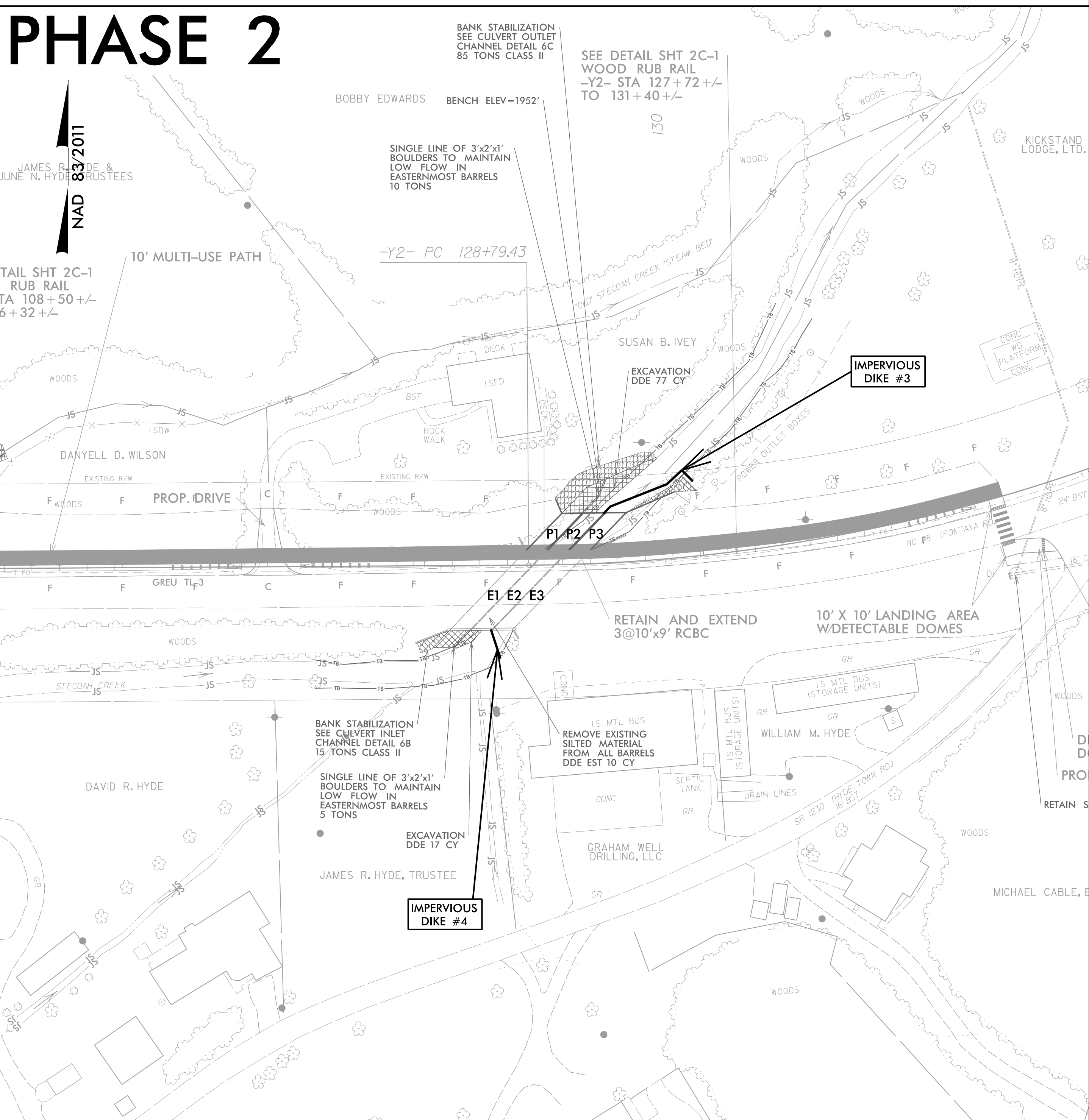
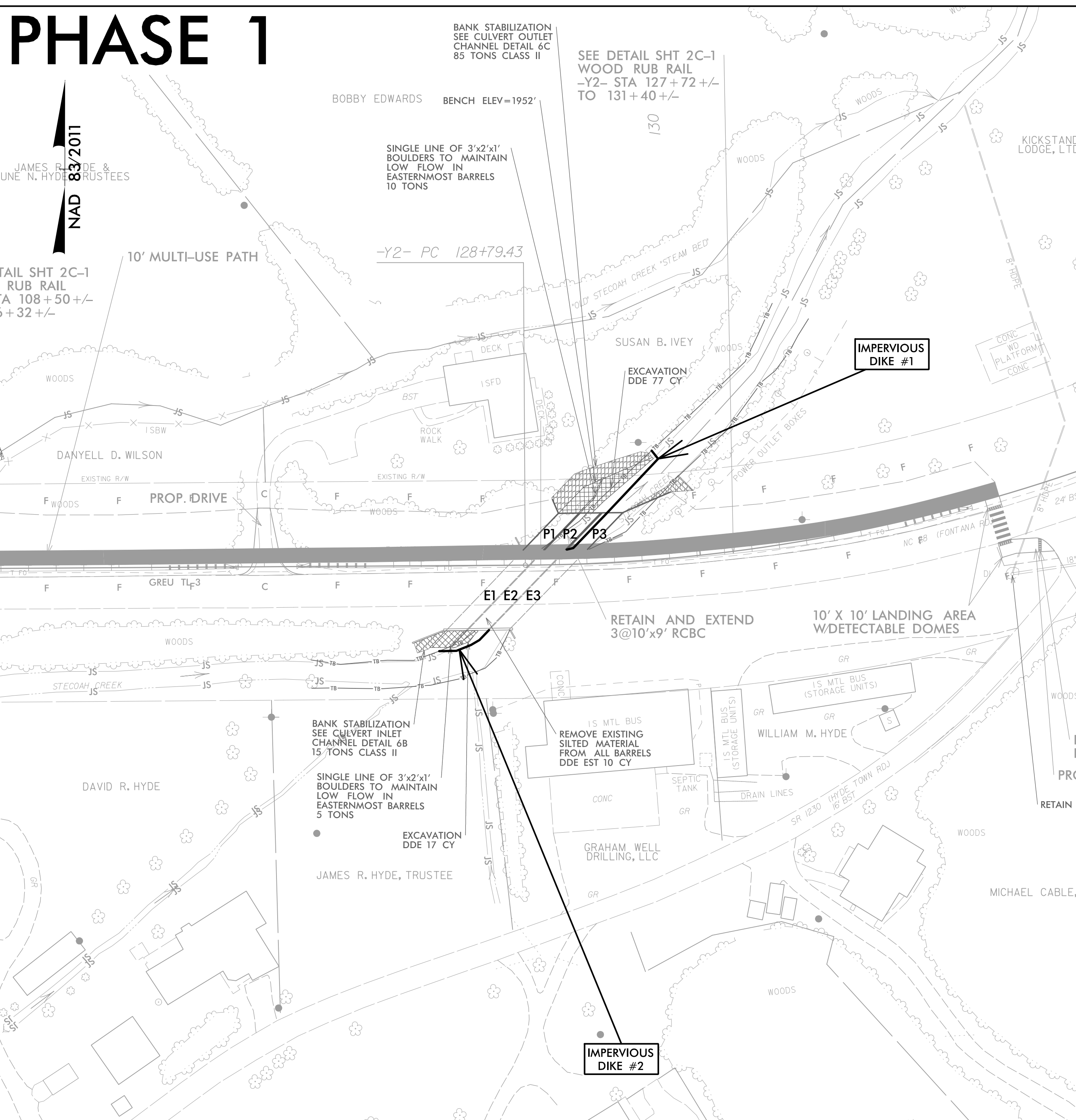
ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

| | |
|-------------------------|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| A-0009CE | EC-06A/CONST.6 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

CULVERT CONSTRUCTION SEQUENCE STA. 128+90 -Y2-

1. INSTALL IMPERVIOUS DIKES #1 & #2 AND DIRECT FLOW THROUGH EXISTING RCBC E3.
2. DEWATER WORK SITE AS NEEDED INTO SPECIAL STILLING BASIN(S).
3. CONSTRUCT 10'X9' RCBC EXTENSIONS P1 & P2.
4. REMOVE IMPERVIOUS DIKES #1 & #2.

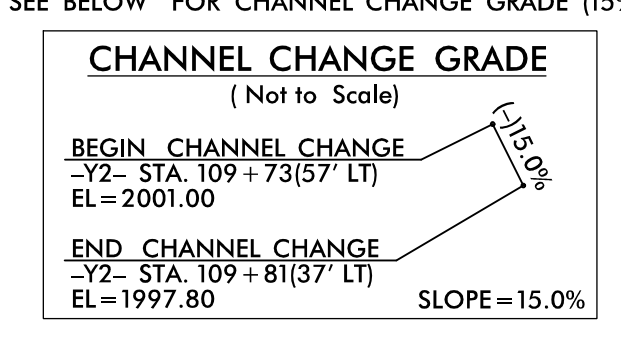
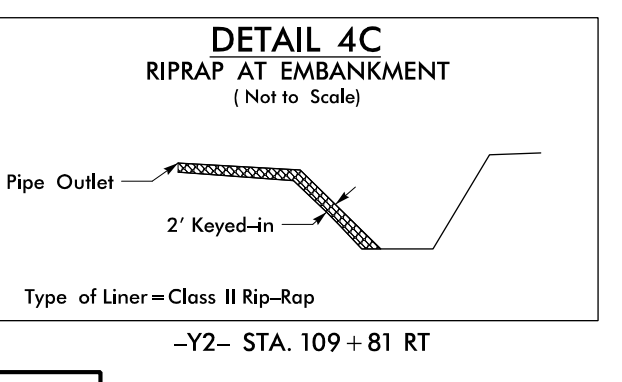
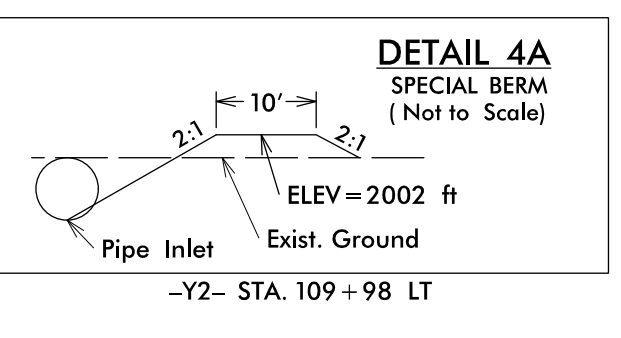
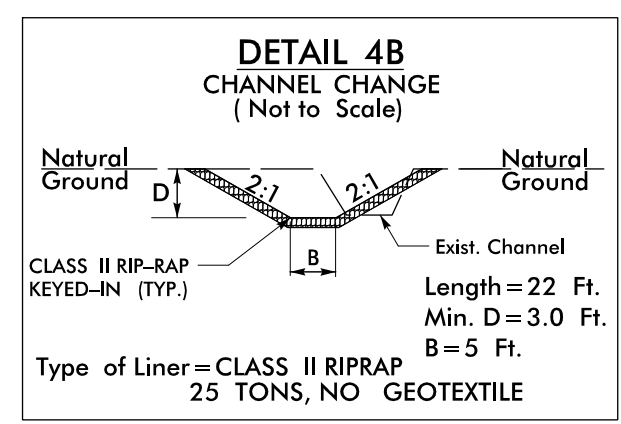
1. INSTALL IMPERVIOUS DIKES #3 & #4 AND DIRECT FLOW THROUGH E2 & NEW P2 EXTENSION.
2. CONSTRUCT 10'X9' RCBC EXTENSION P3.
3. UPON COMPLETION OF P3 CULVERT EXTENSION, REMOVE IMPERVIOUS DIKES #3 & #4.
4. COMPLETE CHANNEL IMPROVEMENTS AND REESTABLISH STREAM ACCORDING TO CONST. PLANS.



| | |
|---|---------------------|
| PROJECT REFERENCE NO. | SHEET NO. |
| A-0009CE | EC-7/CONST.4 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |

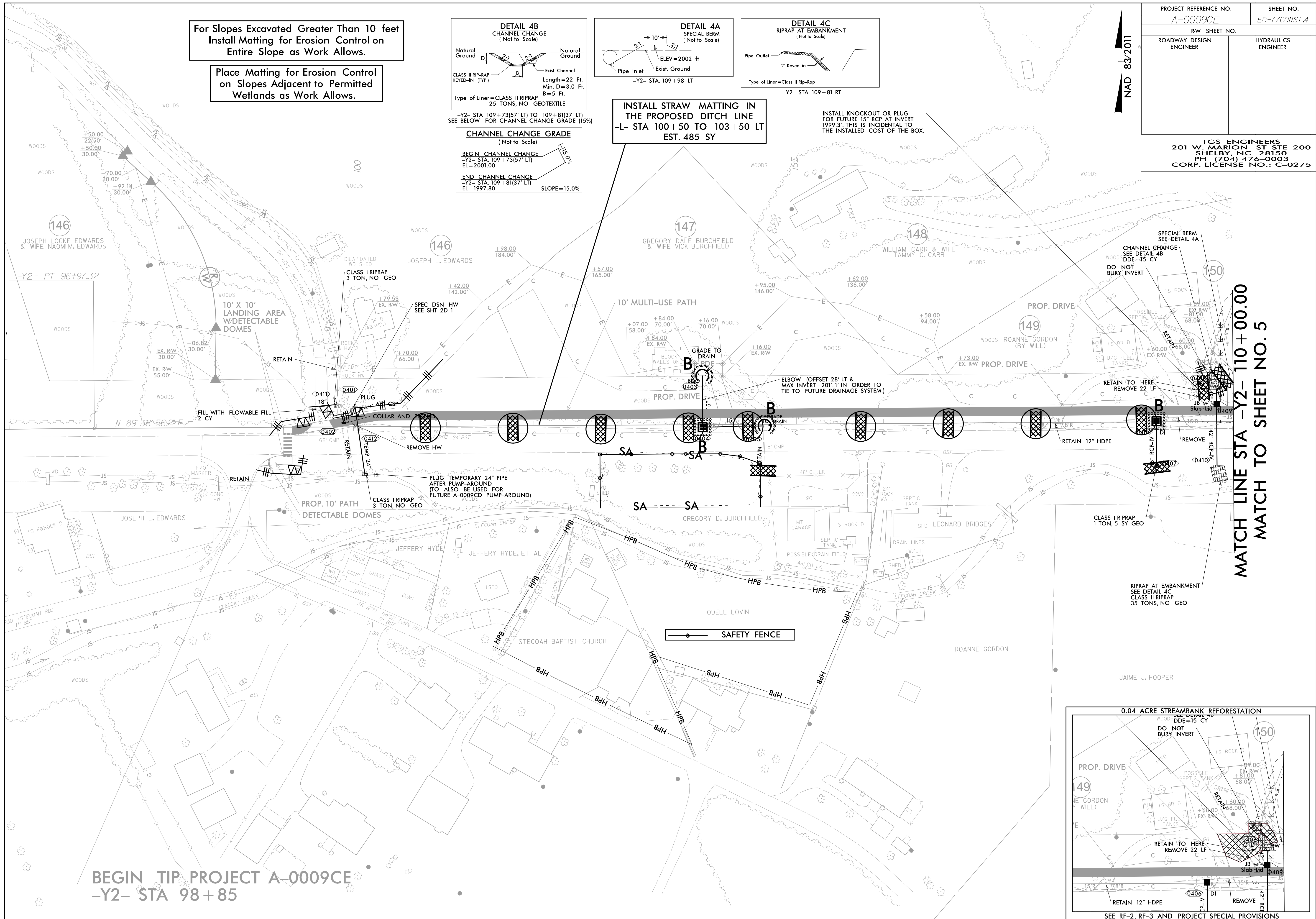
For Slopes Excavated Greater Than 10 feet
Install Matting for Erosion Control on
Entire Slope as Work Allows.

Place Matting for Erosion Control
on Slopes Adjacent to Permitted
Wetlands as Work Allows.



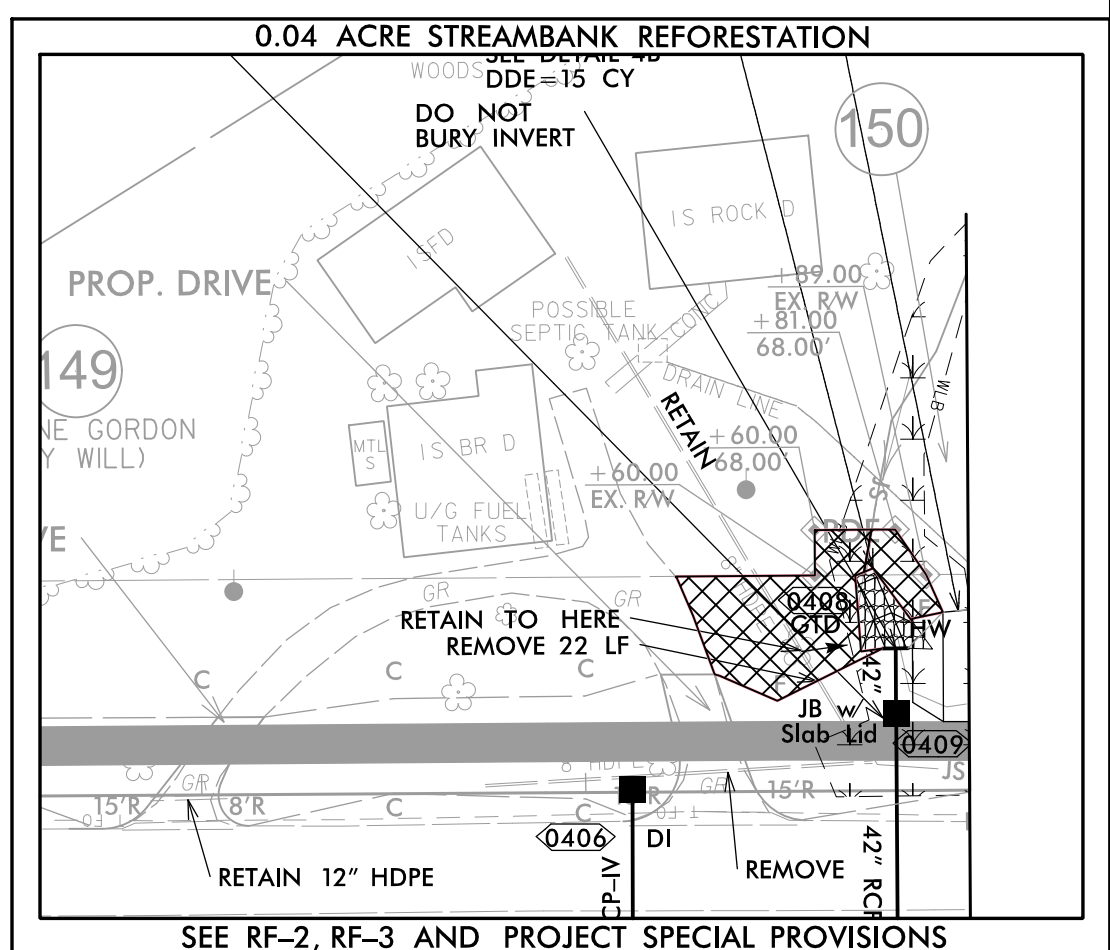
INSTALL STRAW MATTING IN
THE PROPOSED DITCH LINE
-L- STA 100+50 TO 103+50 LT
EST. 485 SY

INSTALL KNOCKOUT OR PLUG
FOR FUTURE 15" RCP AT INVERT
1999.3'. THIS IS INCIDENTAL TO
THE INSTALLED COST OF THE BOX.



MATCH LINE STA -Y2- 110+00.00
MATCH TO SHEET NO. 5

BEGIN TIP PROJECT A-0009CE
-Y2- STA 98+85



SEE RF-2, RF-3 AND PROJECT SPECIAL PROVISIONS

| | |
|--|---------------------------|
| PROJECT REFERENCE NO. A-0009CE | SHEET NO. EC-8/CONST.5 |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |
| TGS ENGINEERS 201 W. MARION ST-STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |

NAD 83/2011

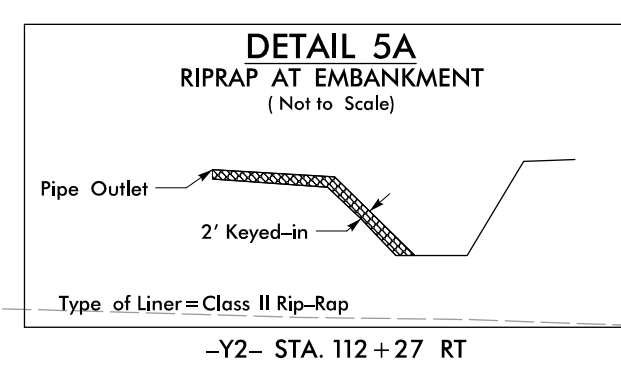
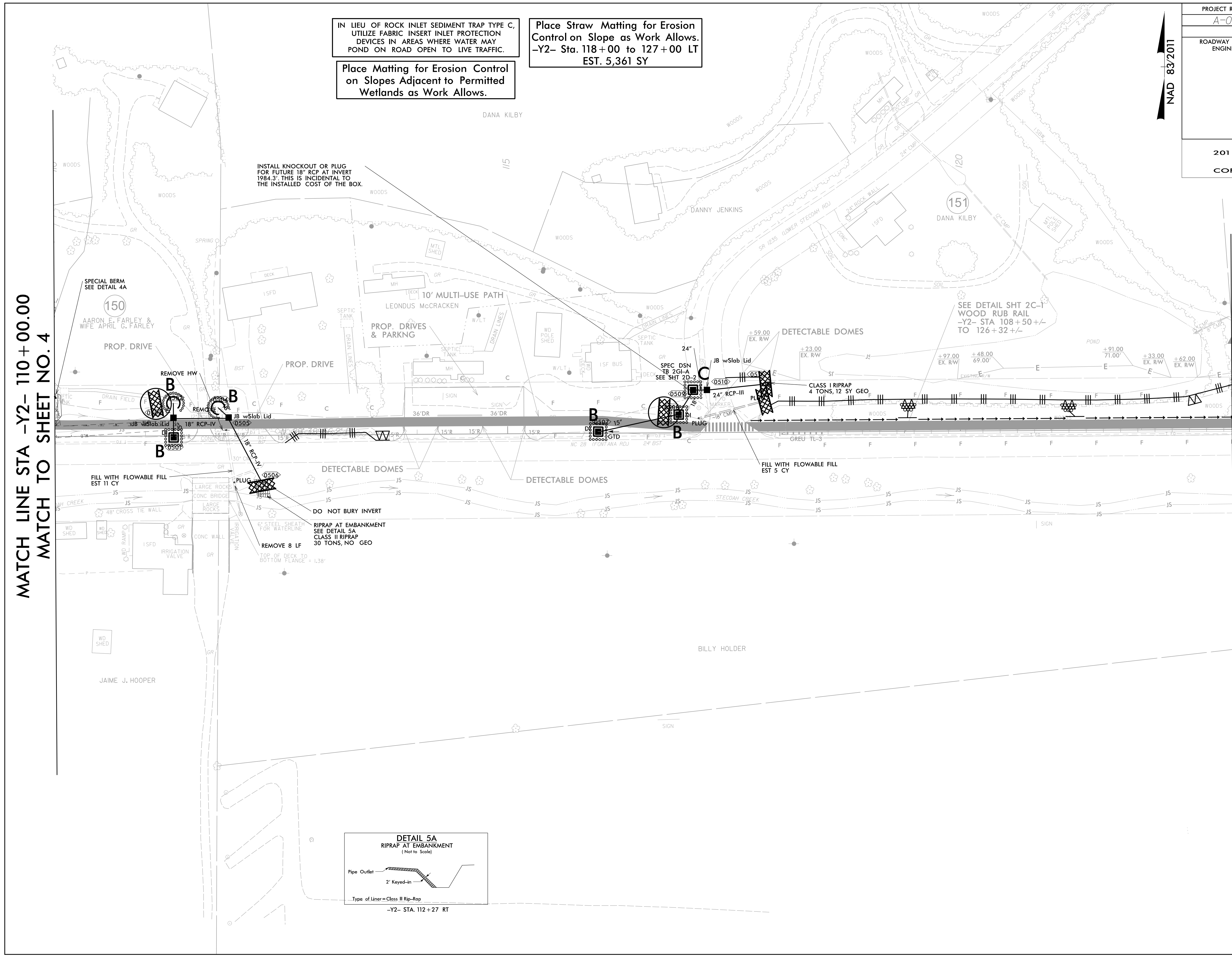
IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C, UTILIZE FABRIC INSERT INLET PROTECTION DEVICES IN AREAS WHERE WATER MAY POND ON ROAD OPEN TO LIVE TRAFFIC.

Place Straw Matting for Erosion Control on Slope as Work Allows. -Y2- Sta. 118+00 to 127+00 LT EST. 5,361 SY

Place Matting for Erosion Control on Slopes Adjacent to Permitted Wetlands as Work Allows.

MATCH LINE STA -Y2- 110+00.00
MATCH TO SHEET NO. 4

MATCH LINE STA -Y2- 123+00.00
MATCH TO SHEET NO. 6



SPECIAL BERM SEE DETAIL 4A
AARON E. FARLEY & WIFE APRIL G. FARLEY

INSTALL KNOCKOUT OR PLUG FOR FUTURE 18" RCP AT INVERT 1984.3'. THIS IS INCIDENTAL TO THE INSTALLED COST OF THE BOX.

SEE DETAIL SHT 2C-1 WOOD RUB RAIL -Y2- STA 108+50+/- TO 126+32+/-

DETECTABLE DOMES
+59.00 EX. RW
+23.00 EX. RW
+97.00 EX. RW
+48.00 69.00'
+91.00 71.00'
+33.00 EX. RW
+62.00 EX. RW

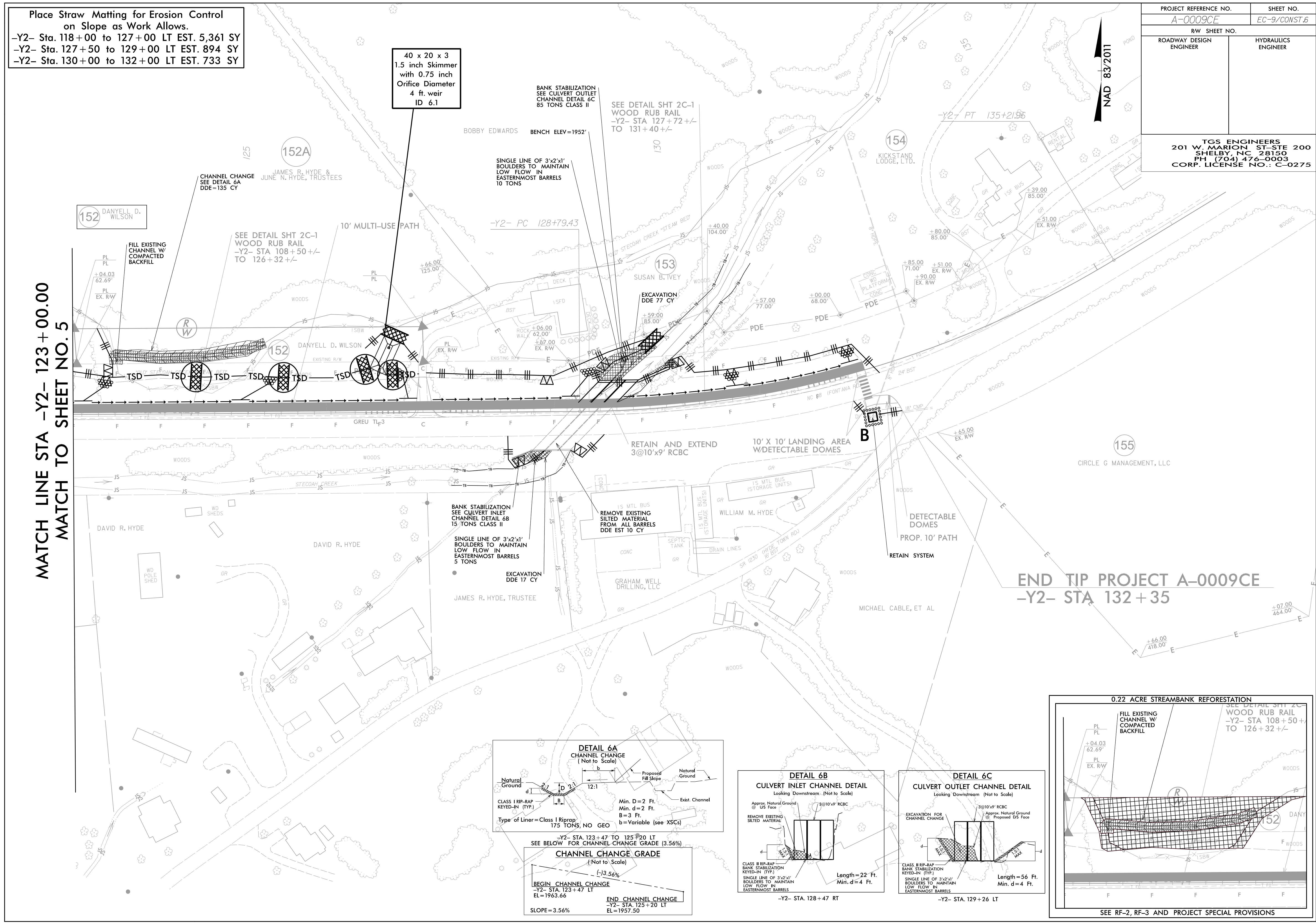
FILL WITH FLOWABLE FILL EST 11 CY

DO NOT BURY INVERT
RIPRAP AT EMBANKMENT SEE DETAIL 5A CLASS II RIPRAP 30 TONS, NO GEO
REMOVE 8 LF
TOP OF DECK TO BOTTOM FLANGE = 1.38'

FILL WITH FLOWABLE FILL EST 5 CY

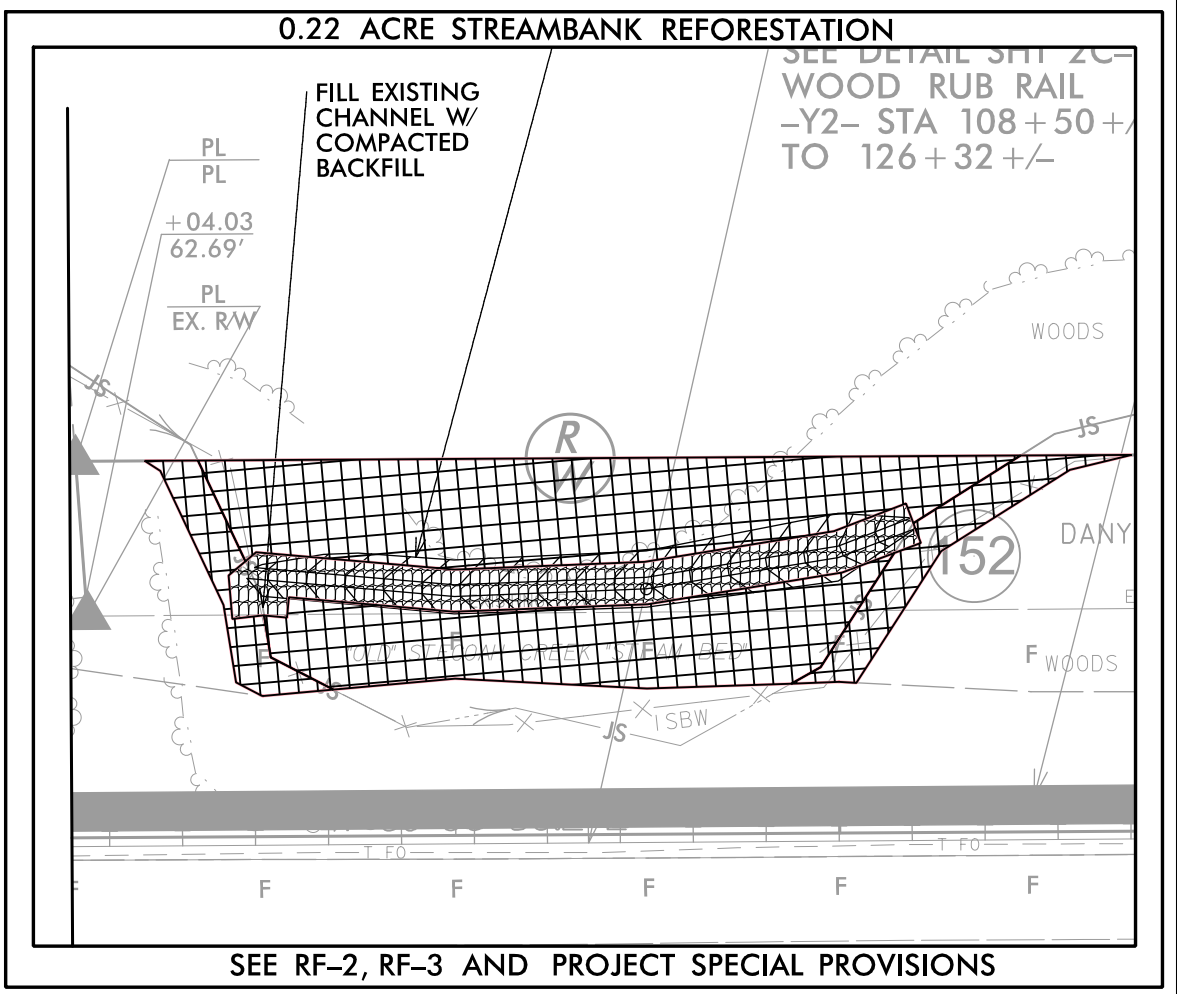
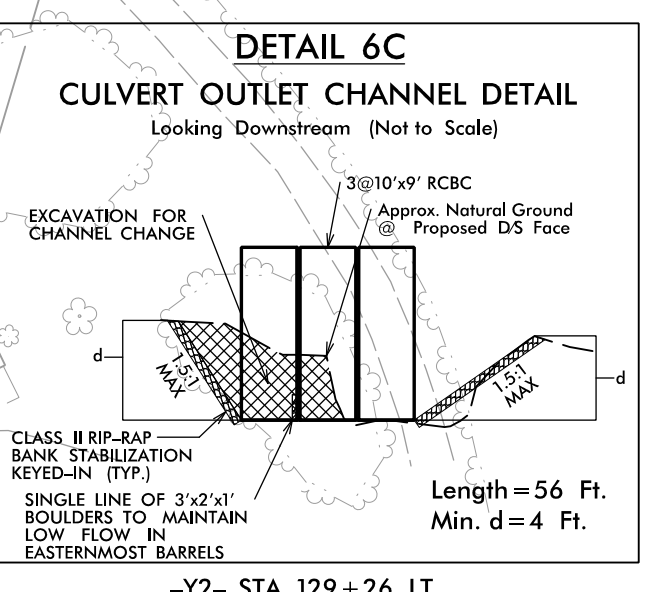
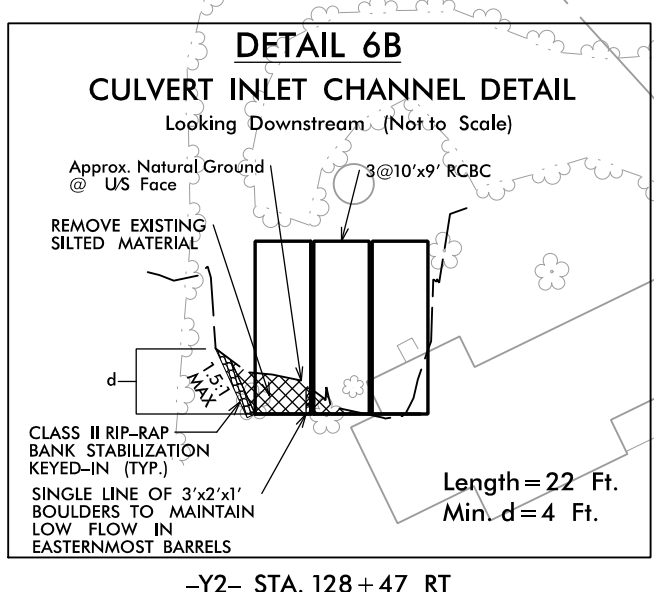
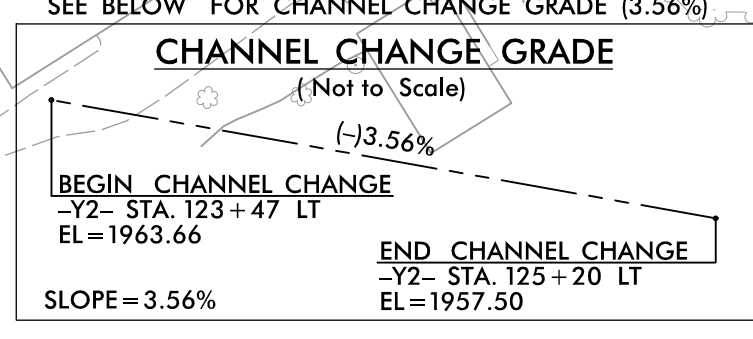
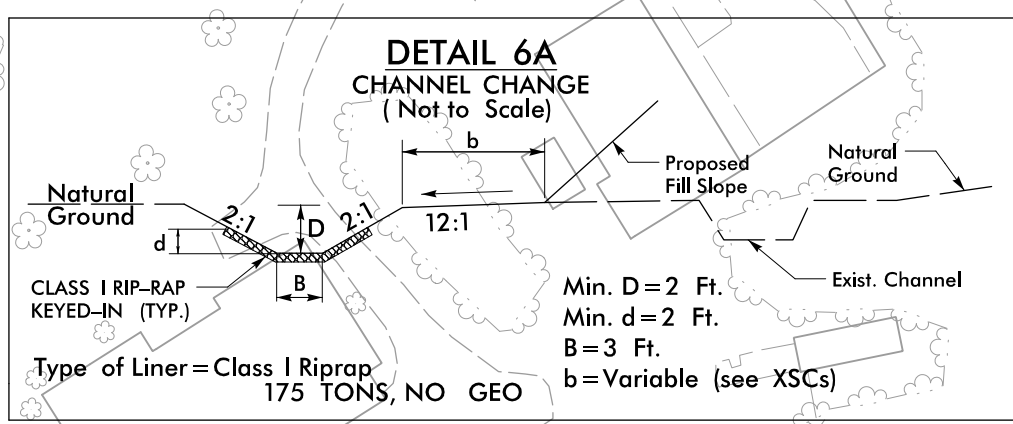
Place Straw Matting for Erosion Control on Slope as Work Allows.
-Y2- Sta. 118+00 to 127+00 LT EST. 5,361 SY
-Y2- Sta. 127+50 to 129+00 LT EST. 894 SY
-Y2- Sta. 130+00 to 132+00 LT EST. 733 SY

| | | | |
|---|--|---------------------------|--|
| PROJECT REFERENCE NO. A-0009CE | | SHEET NO. EC-9/CONST.6 | |
| RW SHEET NO. | | | |
| ROADWAY DESIGN ENGINEER | | HYDRAULICS ENGINEER | |
| <p>TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275</p> | | | |



MATCH LINE STA -Y2- 123+00.00
MATCH TO SHEET NO. 5

END TIP PROJECT A-0009CE
-Y2- STA 132+35



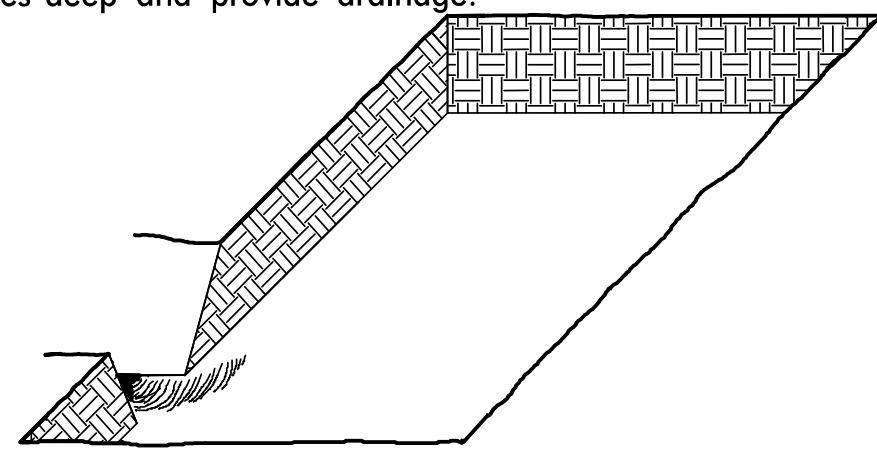
| | | | |
|-----------------|-----------------------------|-------------|--------------|
| STATE | STATE PROJECT REFERENCE NO. | SHEET NO. | TOTAL SHEETS |
| N.C. | A-0009CE | RF-1 | |
| STATE PROJ. NO. | F. A. PROJ. NO. | DESCRIPTION | |

PLANTING DETAILS

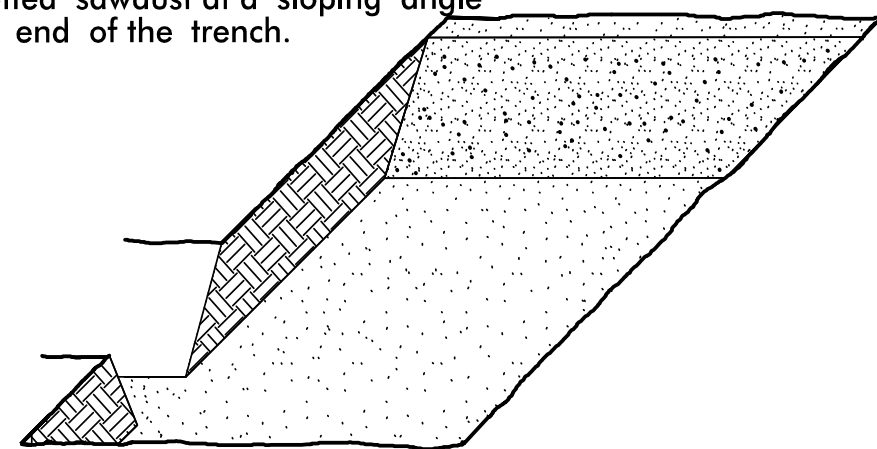
SEEDLING / LINER BAREROOT PLANTING DETAIL

HEALING IN

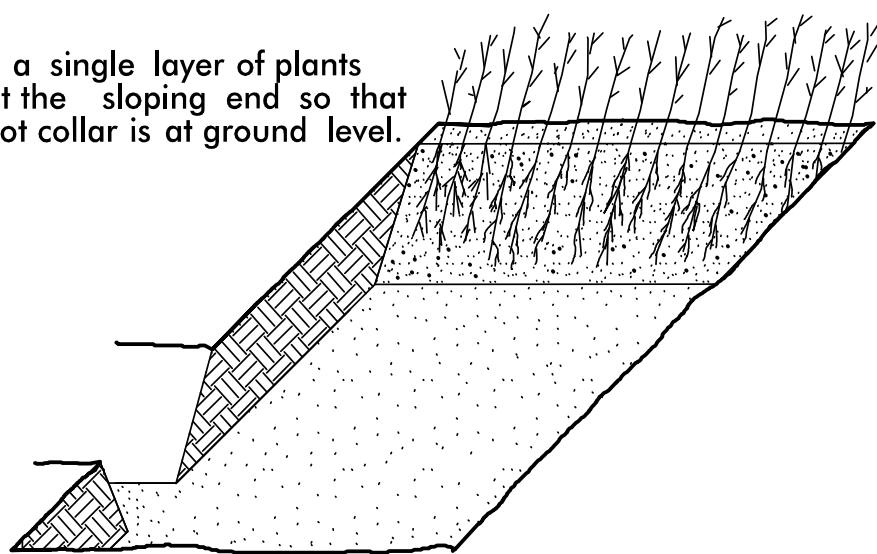
1. Locate a healing-in site in a shady, well protected area.
2. Excavate a flat bottom trench 12 inches deep and provide drainage.



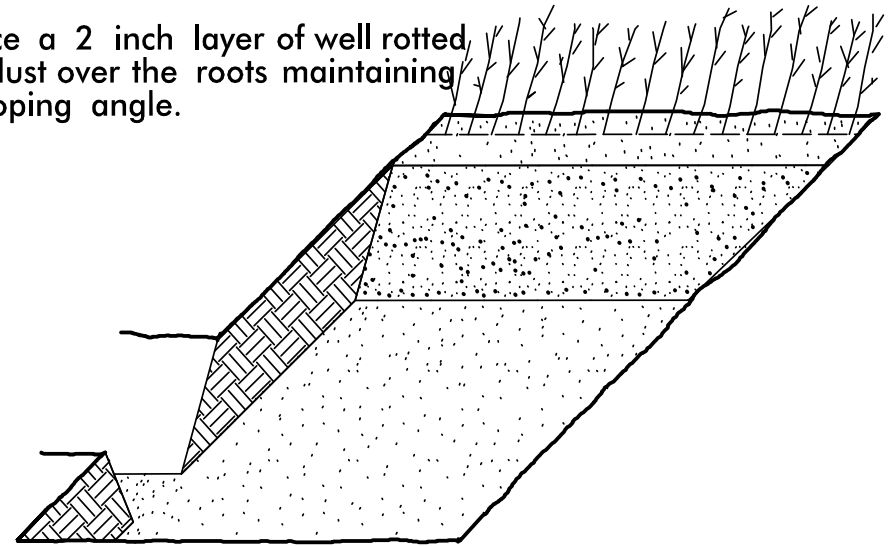
3. Backfill the trench with 2 inches well rotted sawdust. Place a 2 inch layer of well rotted sawdust at a sloping angle at one end of the trench.



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

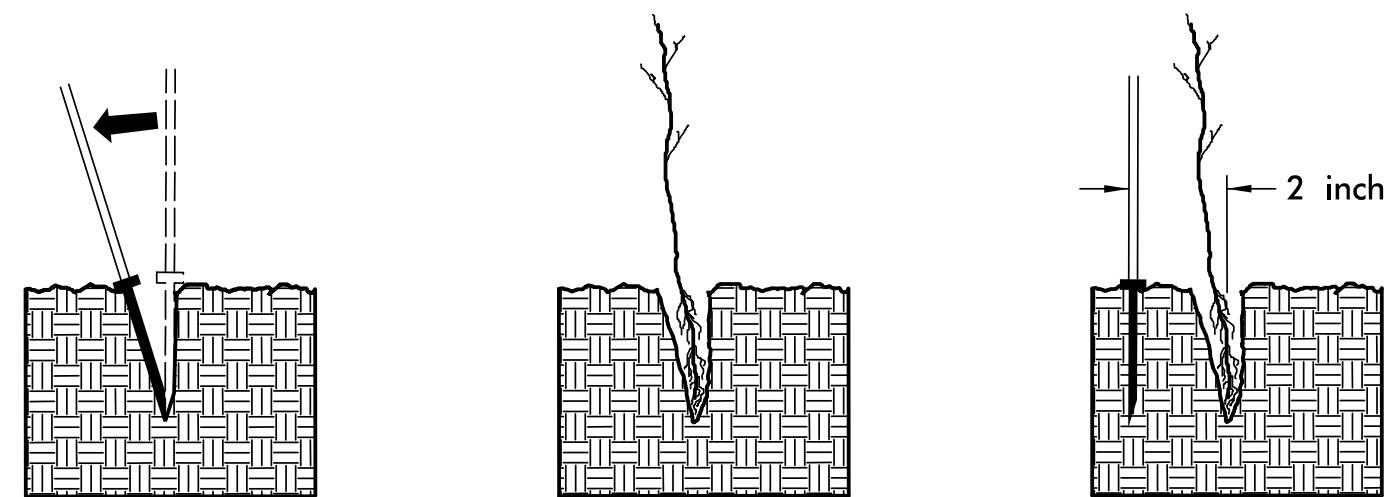


5. Place a 2 inch layer of well rotted sawdust over the roots maintaining a sloping angle.

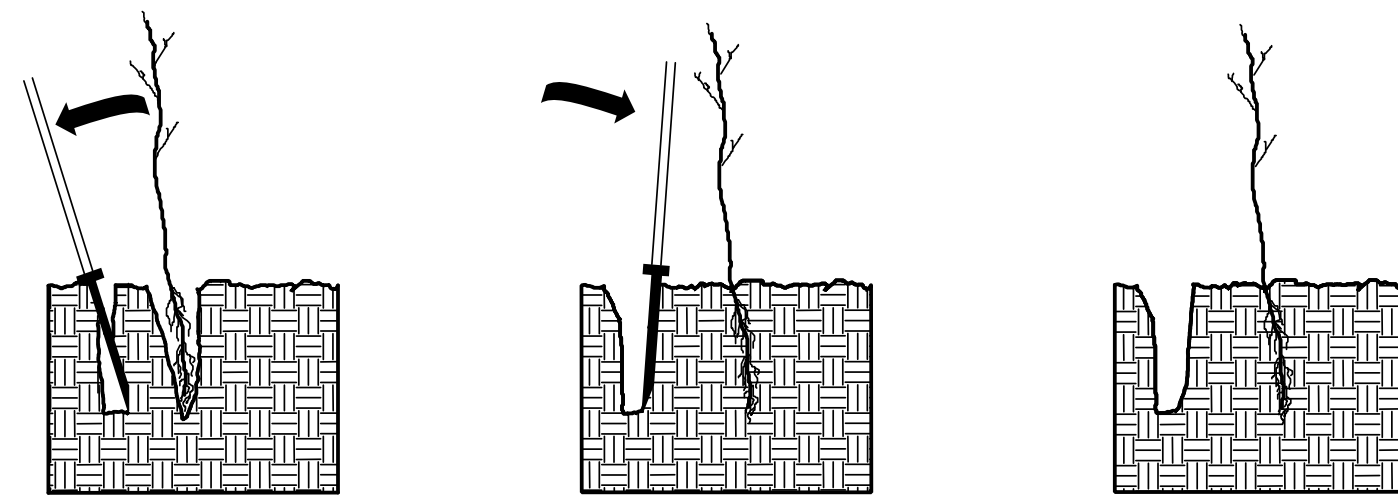


6. Repeat layers of plants and sawdust as necessary and water thoroughly.

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.



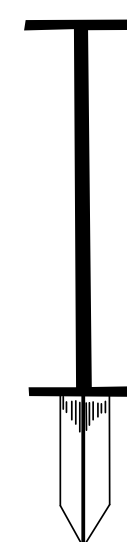
4. Pull handle of bar toward planter, firming soil at bottom.
5. Push handle forward firming soil at top.
6. Leave compaction hole open. Water thoroughly.

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:

| | | | |
|-----|-------------------------|--------------|------------------|
| 25% | LIRIODENDRON TULIPIFERA | TULIP POPLAR | 12 in - 18 in BR |
| 25% | PLATANUS OCCIDENTALIS | SYCAMORE | 12 in - 18 in BR |
| 25% | BETULA NIGRA | RIVER BIRCH | 12 in - 18 in BR |
| 25% | NYSSA SYLVATICA | BLACK GUM | 12 in - 18 in BR |

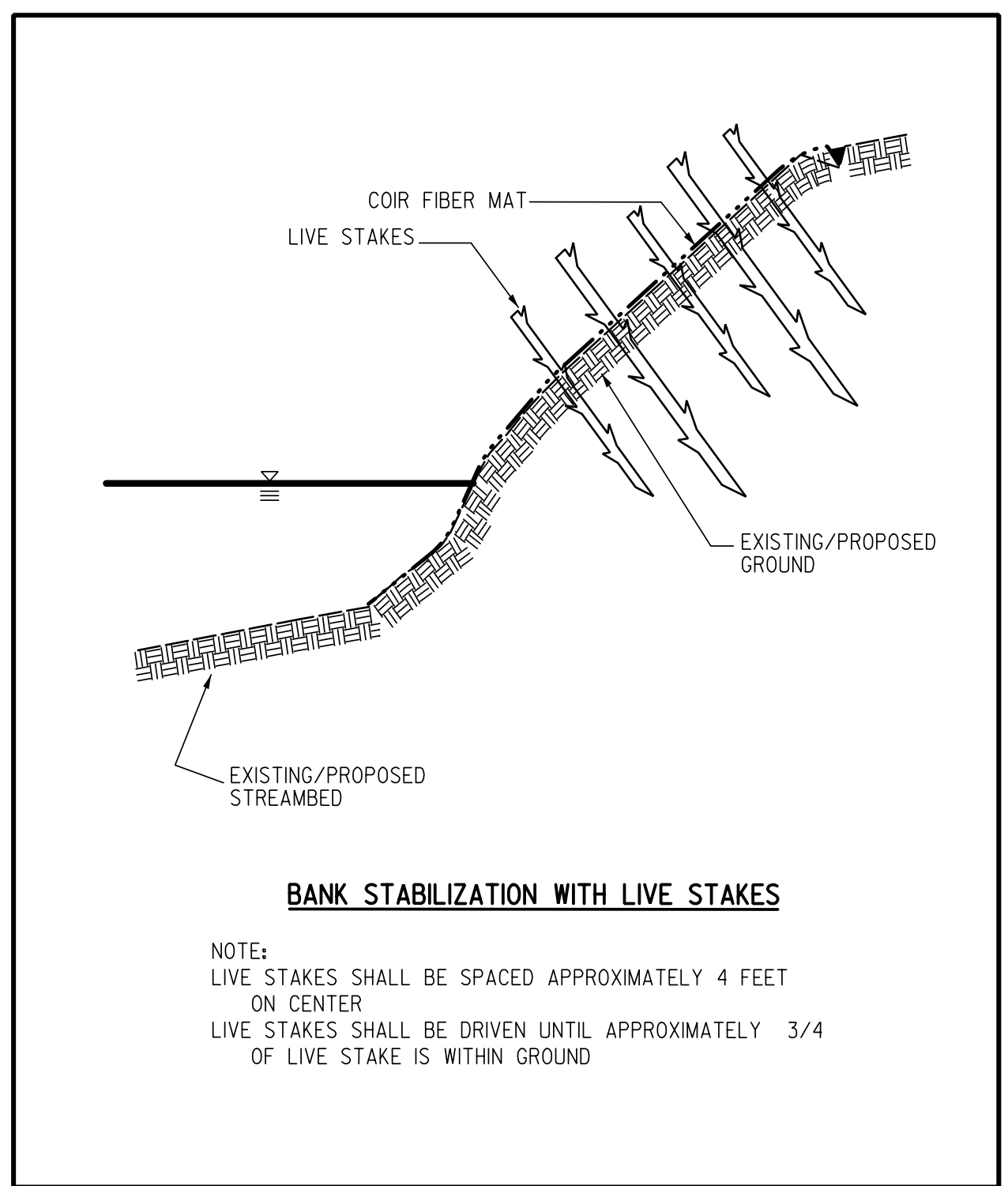
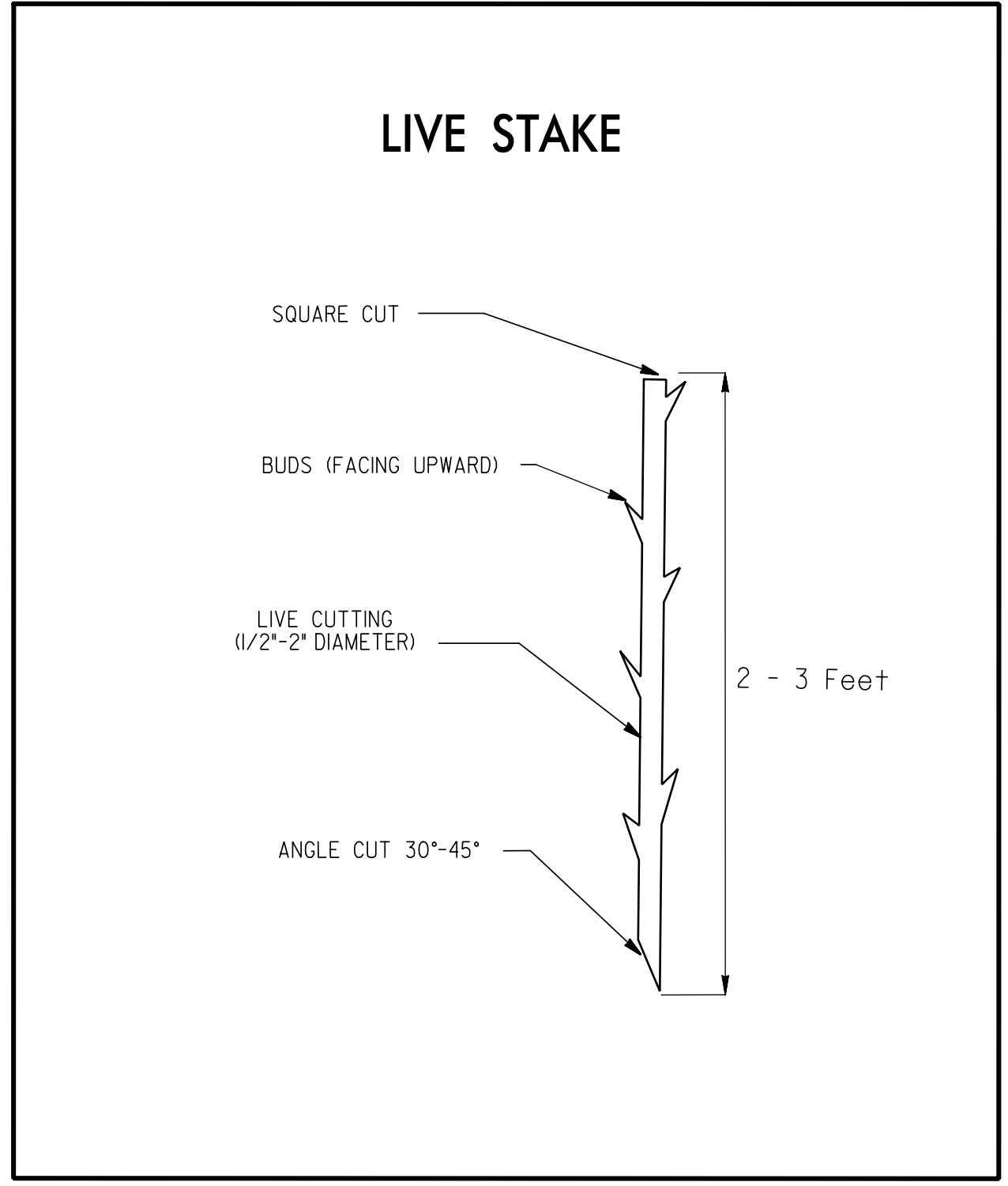
REFORESTATION DETAIL SHEET

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

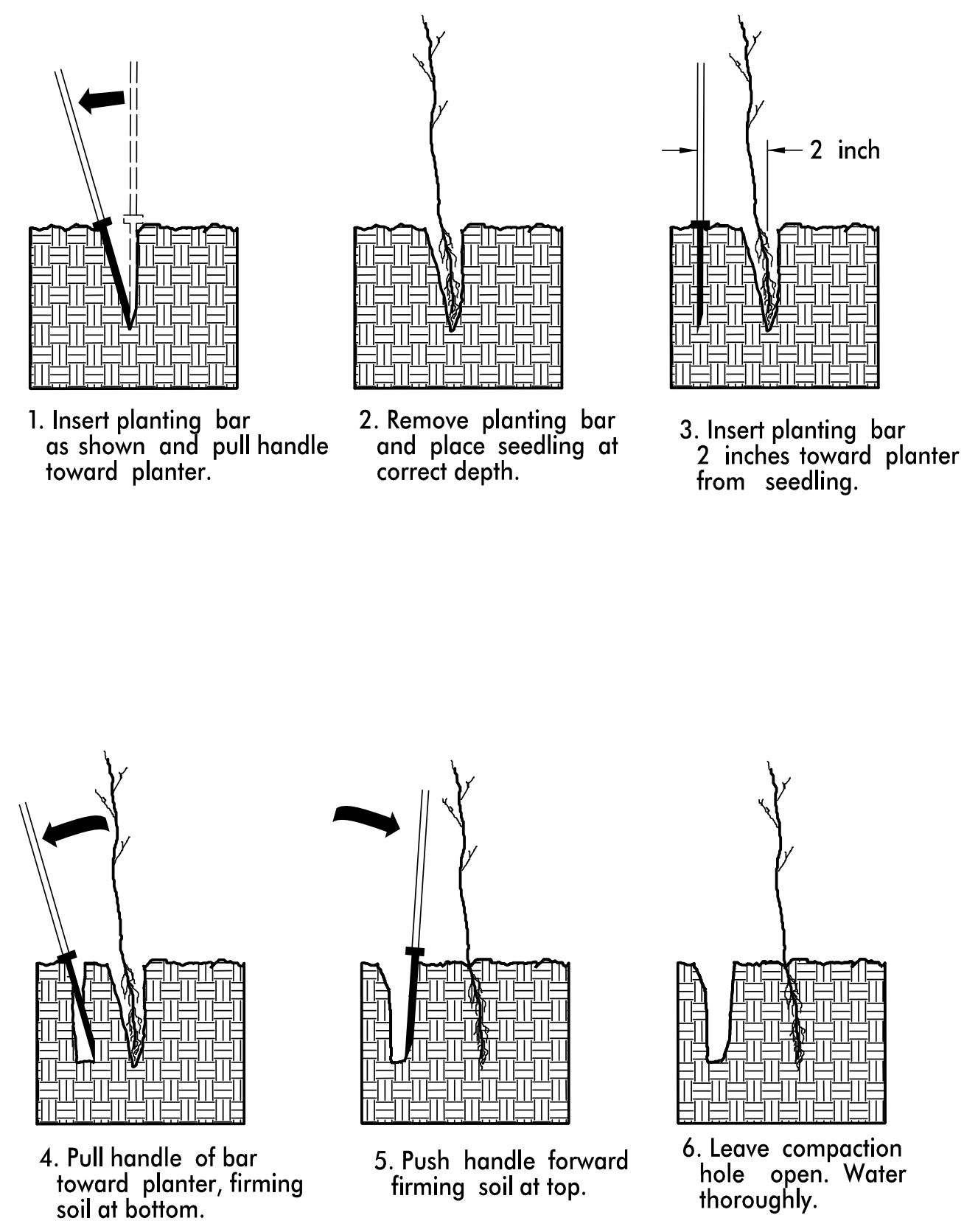
| | |
|--|--------------------------|
| PROJECT REFERENCE NO. <i>A-0009CE</i> | SHEET NO. <i>RF-2</i> |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |

PLANTING DETAILS

LIVE STAKES PLANTING DETAIL



BAREROOT PLANTING DETAIL DIBBLE PLANTING METHOD USING THE KBC PLANTING BAR

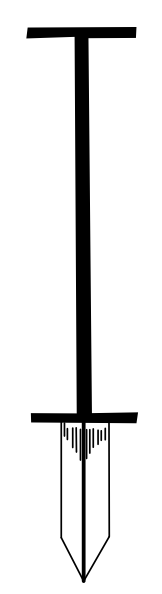


PLANTING NOTES:

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



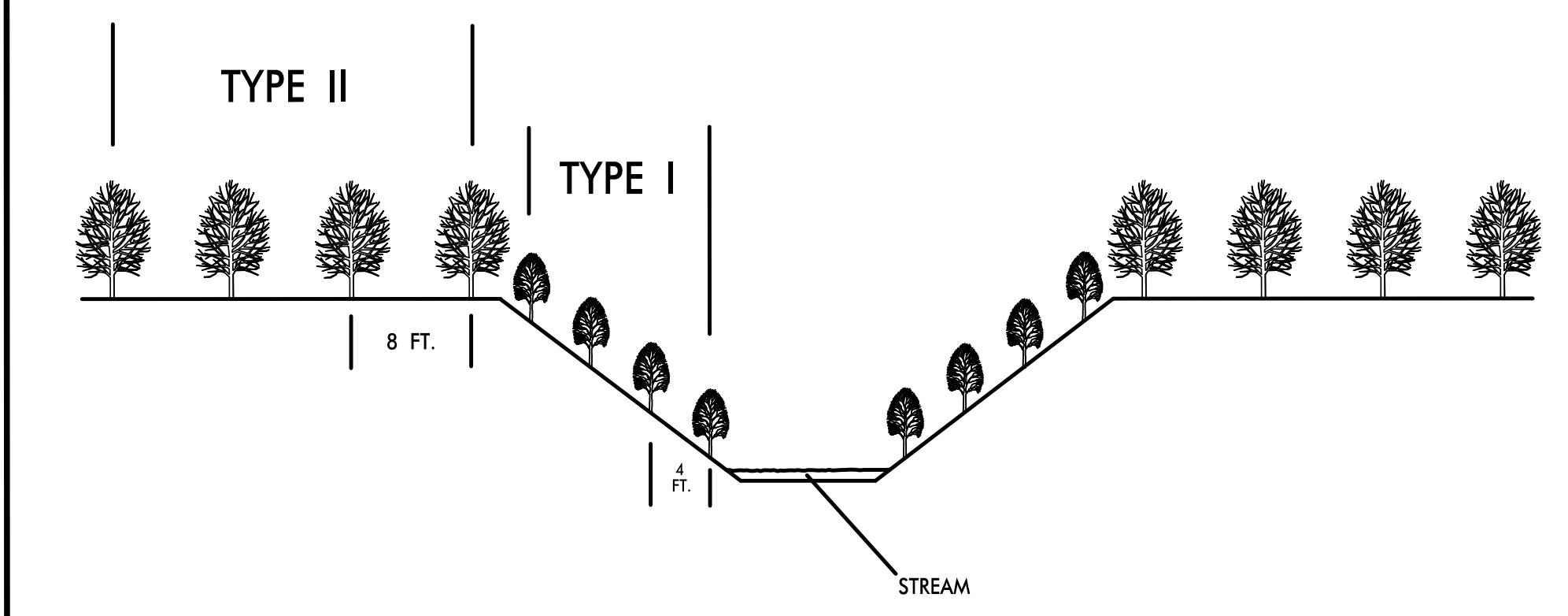
KBC PLANTING BAR
Planting bar shall have a blade with a triangular cross section, and shall be 12 inches long, 4 inches wide and 1 inch thick at center.



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

- TYPE 1 STREAMBANK REFORESTATION SHALL BE PLANTED 3 FT. TO 5 FT. ON CENTER, RANDOM SPACING, AVERAGING 4 FT. ON CENTER, APPROXIMATELY 2724 PLANTS PER ACRE.
- TYPE 2 STREAMBANK REFORESTATION SHALL BE PLANTED 6 FT. TO 10 FT. ON CENTER, RANDOM SPACING, AVERAGING 8 FT. ON CENTER, APPROXIMATELY 680 PLANTS PER ACRE.
- NOTE: TYPE 1 AND TYPE 2 STREAMBANK REFORESTATION SHALL BE PAID FOR AS "STREAMBANK REFORESTATION"

STREAMBANK REFORESTATION TYPICAL



STREAMBANK REFORESTATION

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

| | | | |
|---------------|-------------------------|---------------|-------------------------|
| TYPE 1 | | | |
| 50% | SALIX NIGRA | BLACK WILLOW | 2 ft - 3 ft LIVE STAKES |
| 50% | CORNUS AMOMUM | SILKY DOGWOOD | 2 ft - 3 ft LIVE STAKES |
| TYPE 2 | | | |
| 25% | LIRIODENDRON TULIPIFERA | TULIP POPLAR | 12 in - 18 in BR |
| 25% | PLATANUS OCCIDENTALIS | SYCAMORE | 12 in - 18 in BR |
| 25% | BETULA NIGRA | RIVER BIRCH | 12 in - 18 in BR |
| 25% | NYSSA SYLVATICA | BLACK GUM | 12 in - 18 in BR |

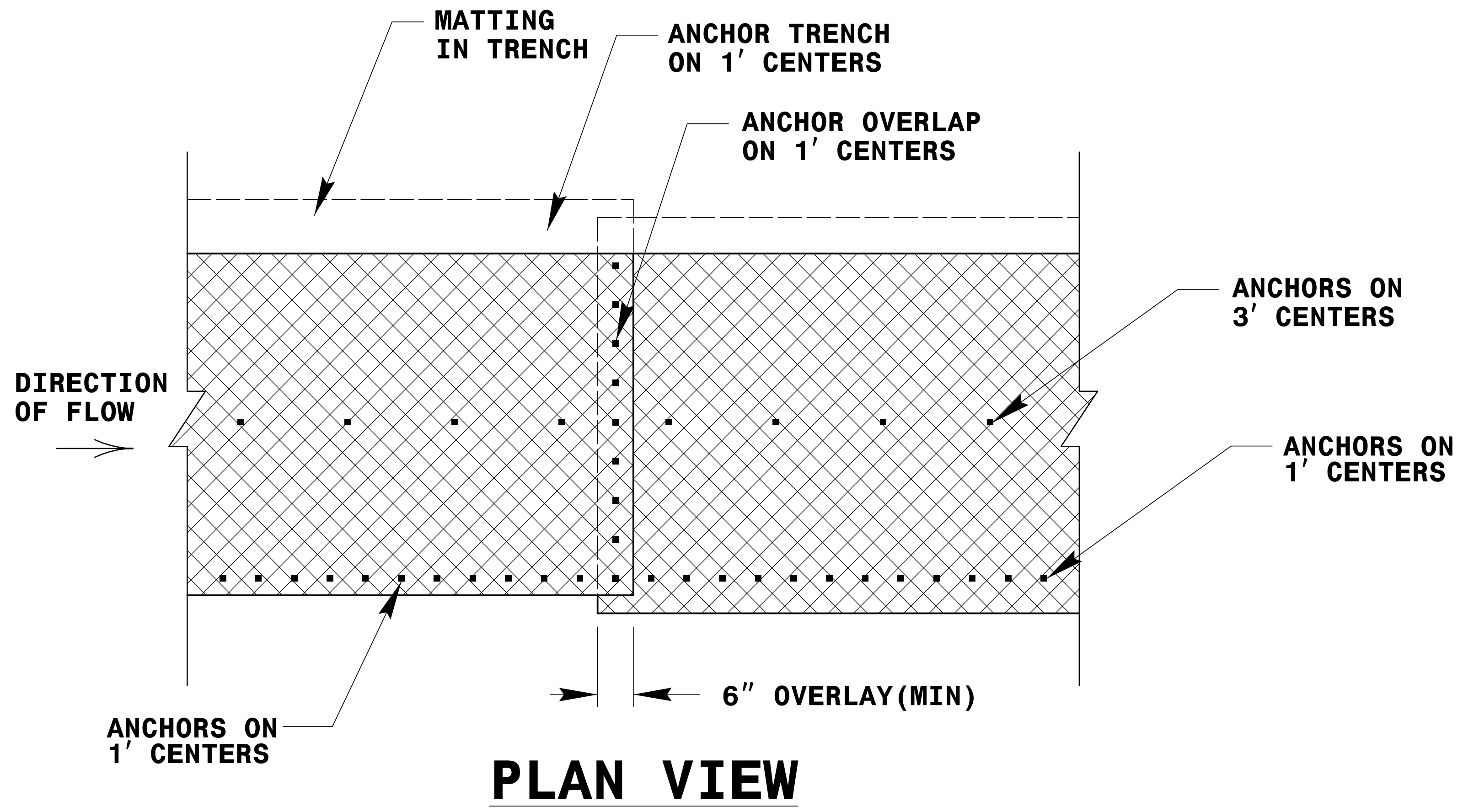
SEE PLAN SHEETS FOR AREAS TO BE PLANTED

STREAMBANK REFORESTATION

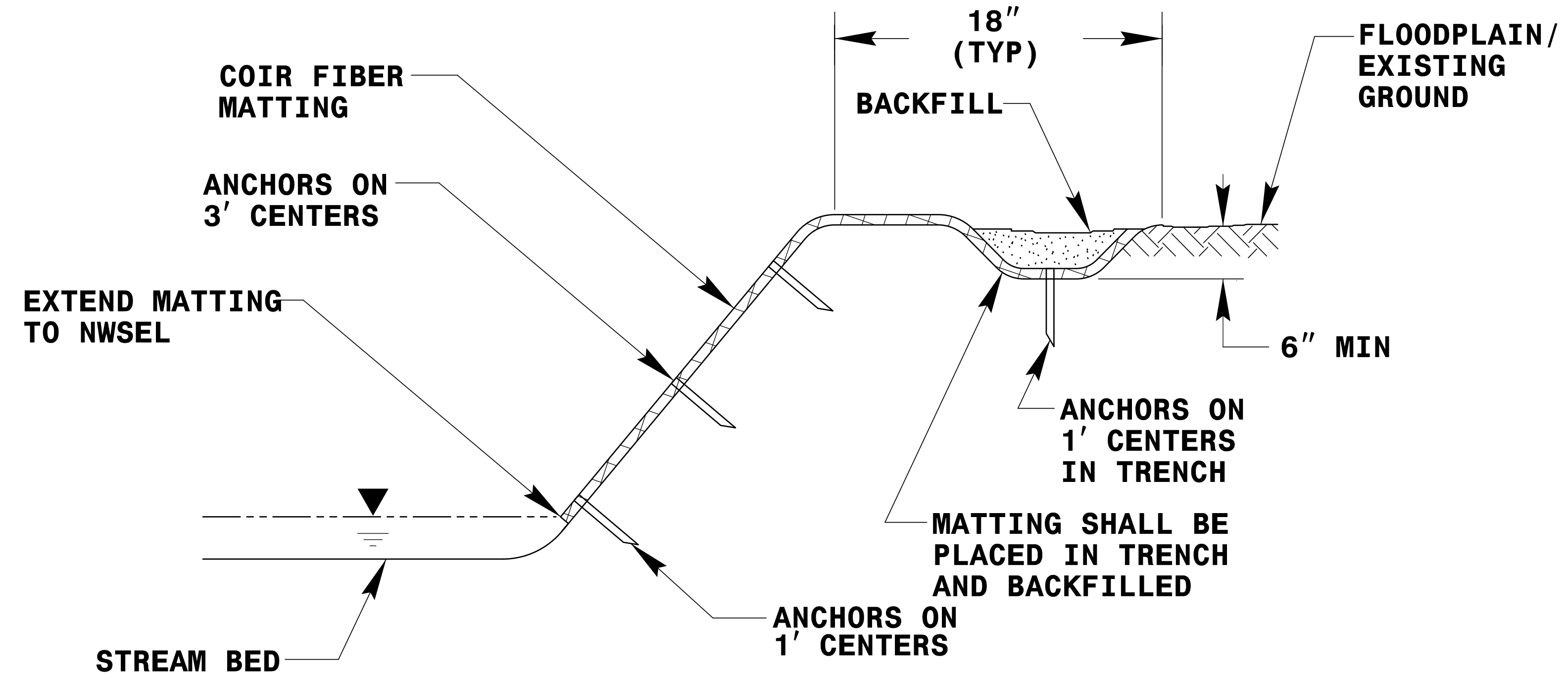
DETAIL SHEET 1 OF 2

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

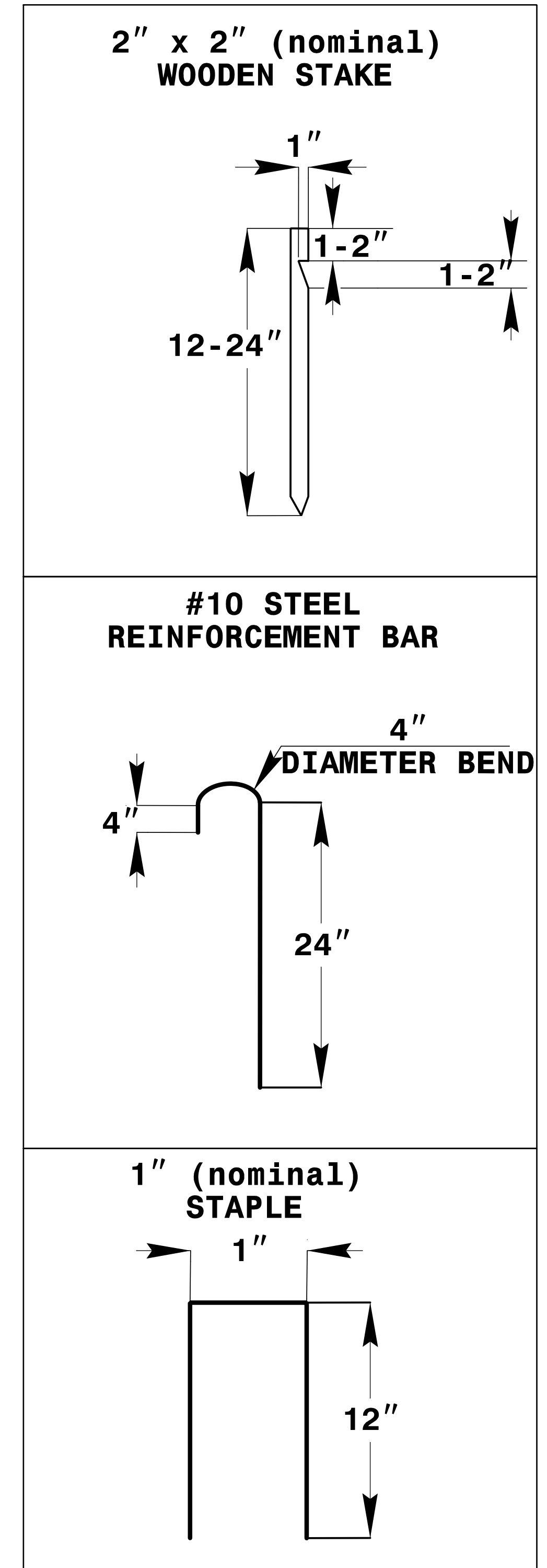
| | |
|--|--------------------------|
| PROJECT REFERENCE NO. <i>A-0009CE</i> | SHEET NO. <i>RF-3</i> |
| RW SHEET NO. | |
| ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER |



PLAN VIEW



TYPICAL CROSS SECTION



ANCHOR OPTIONS

COIR FIBER MATTING DETAIL

NOT TO SCALE

STREAMBANK REFORESTATION
DETAIL SHEET 2 OF 2
 N.C.D.O.T. - ROADSIDE ENVIRONMENTAL UNIT

T.I.P.: A-0009CE

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION

SIGNING AND PAVEMENT MARKING PLAN GRAHAM COUNTY

LOCATION: MULTI-USE PATH ALONG NC 28

TIP NO. A-0009CE SHEET NO. SIGN-1 APPROVED: Jimmy Terry DATE: 5/29/2024 SEAL DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ROADWAY STANDARD DRAWING

THE FOLLOWING ROADWAY STANDARDS AS APPEAR 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:

Table with 2 columns: STD. NO. and TITLE. Lists standards for sign supports, orientations, mounting, speed reduction zones, pavement markings, guardrails, etc.

GENERAL NOTES SIGNING

- SIGNS FURNISHED BY STATE
IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET(NON-STATE/CITY MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER.THE WORK WILL BE COMPLETED BY OTHERS.
WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
ALL EXISTING SIGNS ON "U" CHANNEL POST WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON THE PLANS,
WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.

SUMMARY OF QUANTITIES

Table with 5 columns: ITEM NO., DESC. NO., SECT. NO., ITEM DESCRIPTION, QUANTITY, UNIT. Lists quantities for sign supports, erection, and disposal.

GENERAL NOTES PAVEMENT MARKINGS

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
NC 28 (FONTANA RD) THERMOPLASTIC NONE
SR 1238 (BILL CRISP RD)
SR 1235 (LOWER STECOAH RD)
D) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
E) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
G) STOP BAR LOCATION AT NON-SIGNALIZED INTERSECTIONS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER.
I) UNLESS OTHERWISE SPECIFIED, HEATED-IN-PLACE THERMOPLASTIC MAY BE USED IN LIEU OF EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS. IF HEATED-IN-PLACE IS USED, IT SHALL BE PAID FOR USING THE EXTRUDED THERMOPLASTIC PAY ITEM.

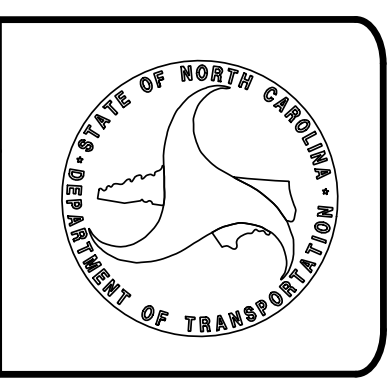
FINAL PAVEMENT MARKING SCHEDULE

Table with 2 columns: SYMBOL and DESCRIPTION. Lists marking types like THERMOPLASTIC (8", 90 MILS), THERMOPLASTIC HEATED-IN-PLACE (120 MILS), BICYCLE CHAR., etc.

INDEX

Table with 2 columns: SHEET NO. and DESCRIPTION. Maps sheet numbers to titles like SIGN-1 TITLE SHEET, SIGN-2 E SHEETS, SIGN-3-4 SIGN & PAVEMENT MARKING DETAIL.

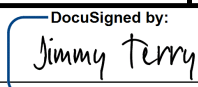


PLAN SUBMITTED TO: WANDA H. AUSTIN, PE DIVISION ENGINEER, NCDOT DIVISION 14




PLAN PREPARED BY: TGS ENGINEERS JIMMY TERRY, PE PROJECT ENGINEER SANDRA MELVIN DESIGN TECHNICIAN

TGS ENGINEERS logo and contact information: 201 W. MARION ST, SHELBY, NC 28150, PH (704) 476-0003, CORP. LICENSE NO.: C-0275

5/23/2024 X:\NCDOT\A-0009CE\Traffic\Signing\CADD\Signing Layout Plans\A-0009CE_Sgn_SGN_01.dgn User:sme\lvn

| | |
|---|---------------------|
| TIP NO. A-0009CE | SHEET NO. SIGN-2 |
| APPROVED:  <small>DocuSigned by: Jimmy Terry FD36F3882E284D0...</small> | |
| DATE: 5/29/2024 | |
| SEAL  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |
|  TGS ENGINEERS 201 W. MARION ST. STE 200 SHELBY, NC 28150 PH (704) 476-0003 CORP. LICENSE NO.: C-0275 | |

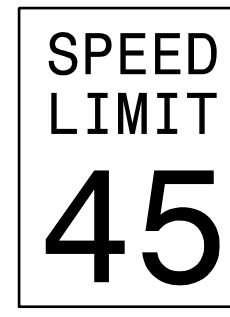
401 QUANTITY REQ'D 2



36 X 36
W3-5

ONE "U" POST PER SIGN

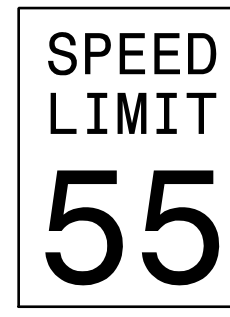
402 QUANTITY REQ'D 2



24 X 30
R2-1

ONE "U" POST PER SIGN

403 QUANTITY REQ'D 2



24 X 30
R2-1

ONE "U" POST PER SIGN

404 QUANTITY REQ'D 4




36 X 36
W11-5

YELLOW/GREEN REFLECTIVE SHEETING

ONE "U" POST PER SIGN

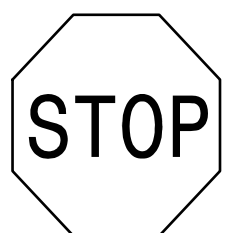
405 QUANTITY REQ'D 4



24 X 12
W16-9p

MOUNT BELOW SIGN 404
IN 4 INSTALLATIONS

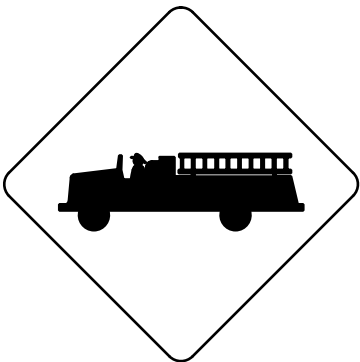
403 QUANTITY REQ'D 3



30 X 30
R1-1

ONE "U" POST PER SIGN

407 QUANTITY REQ'D 1

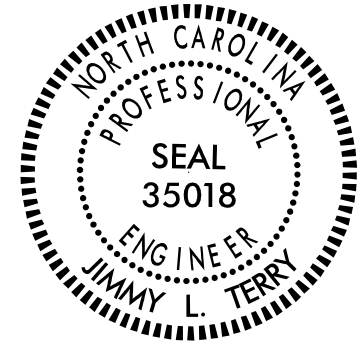


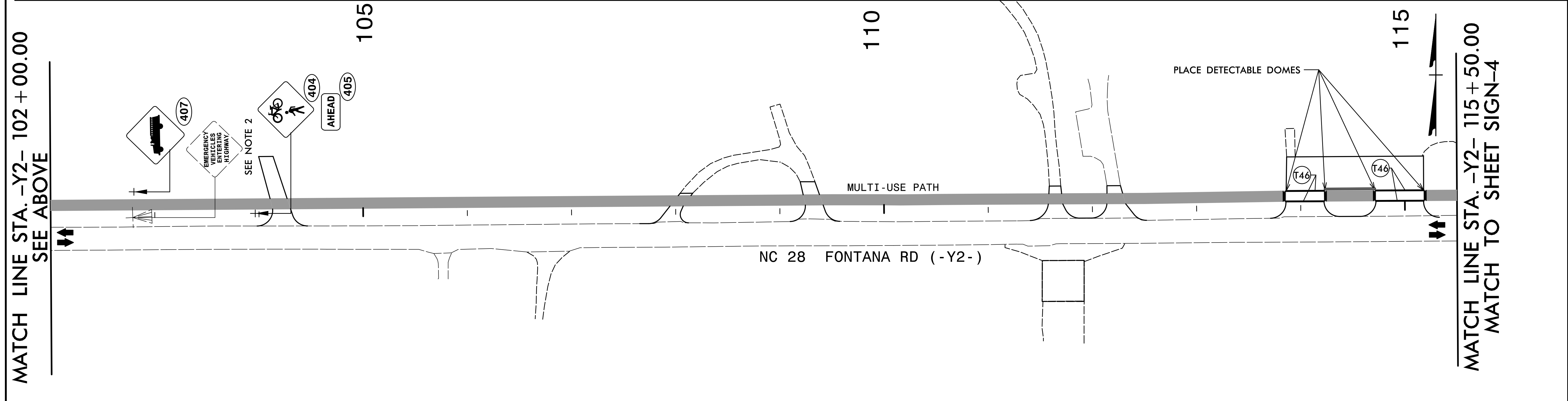
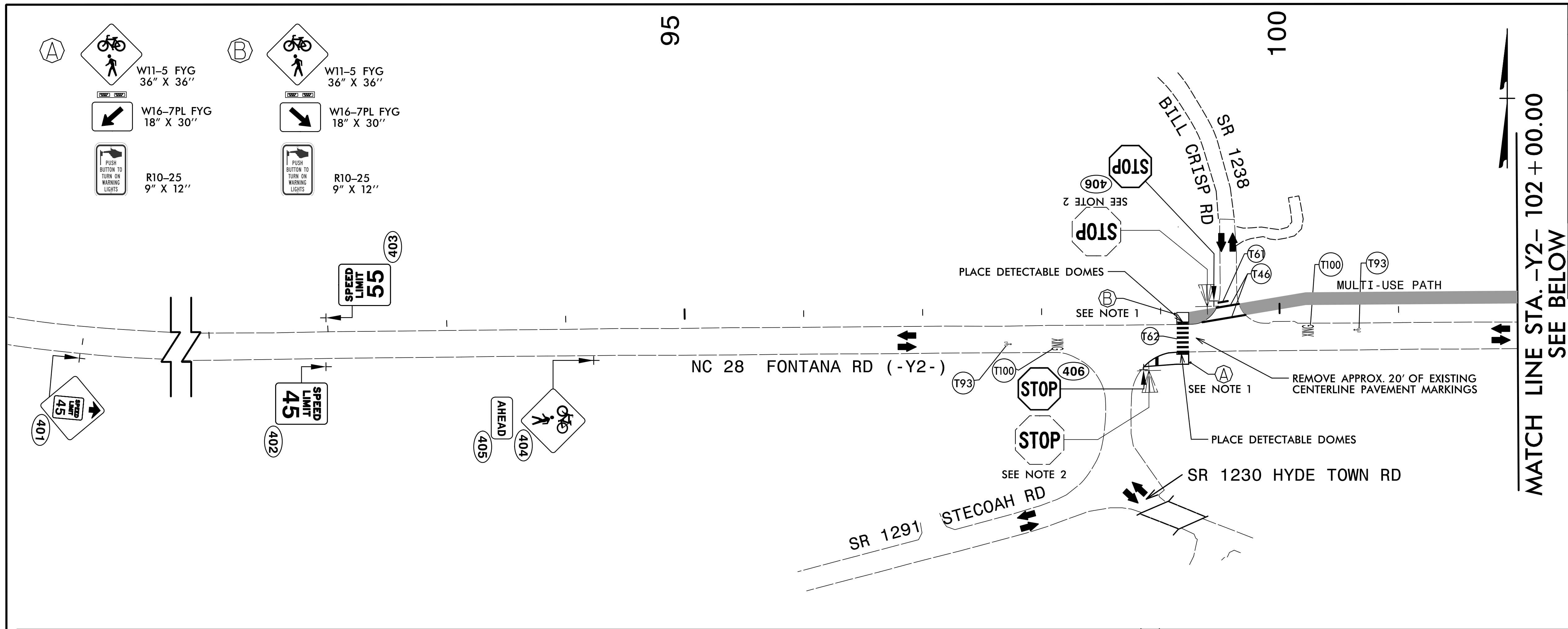
30 X 30
W11-8

ONE "U" POST PER SIGN

TYPE "E" SIGNS

5/29/2024
 X:\NC001\A-0009CE\Traffic\Signing\CADD\Signing_Layout_Plans\A-0009CE_Sgn_SGN_02.dgn
 User: sime.lvr

| | |
|--|---------------------|
| TIP NO. A-0009CE | SHEET NO. SIGN-3 |
| APPROVED: <i>Jimmy Terry</i> FD3P3882E9400 | |
| DATE: 5/29/2024 | |
| SEAL  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |
| TGS ENGINEERS 201 W. MARION ST., STE 200 SHELBY, NC 28150 PH: (704) 476-0003 CORP. LICENSE NO.: C-0275 | |

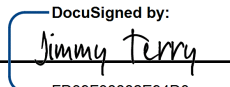
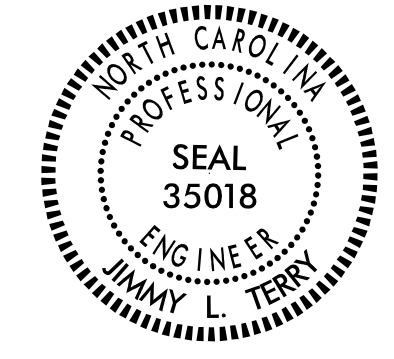


- PROJECT NOTES**
- REFER TO SIGNAL PLANS AND SIGNAL SPECIAL PROVISIONS.
 - DISPOSAL OF SIGN SYSTEM, U-CHANNEL

SEE SHEET SIGN-1 FOR FINAL PAVEMENT MARKING SCHEDULE.

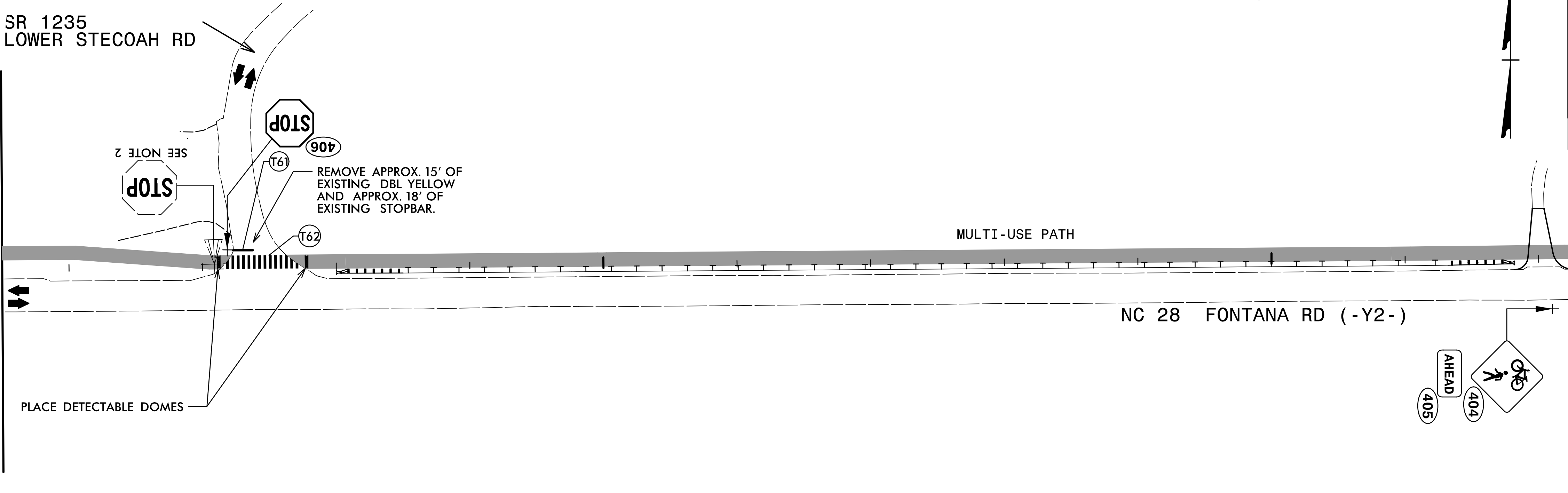
PAVEMENT MARKING & SIGN DETAIL

5/29/2024 X:\NC001\A-0009CE\Traffic\Signing\CADD\Signing Layout Plans\A-0009CE_Sgn_SGN_03.dgn User:smelvin

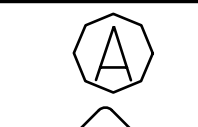
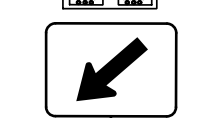
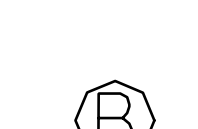
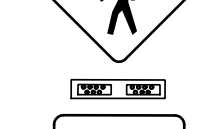


| | |
|---|---------------------|
| TIP NO. A-0009CE | SHEET NO. SIGN-4 |
| APPROVED:  DocuSigned by: Jimmy L. Terry EID: 9F36F38862E84D0... | |
| DATE: 5/29/2024 | |
| SEAL:  | |
| DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED | |

MATCH LINE STA. -Y2- 115 + 50.00
 MATCH TO SHEET SIGN-3

SR 1235
 LOWER STECOAH RD



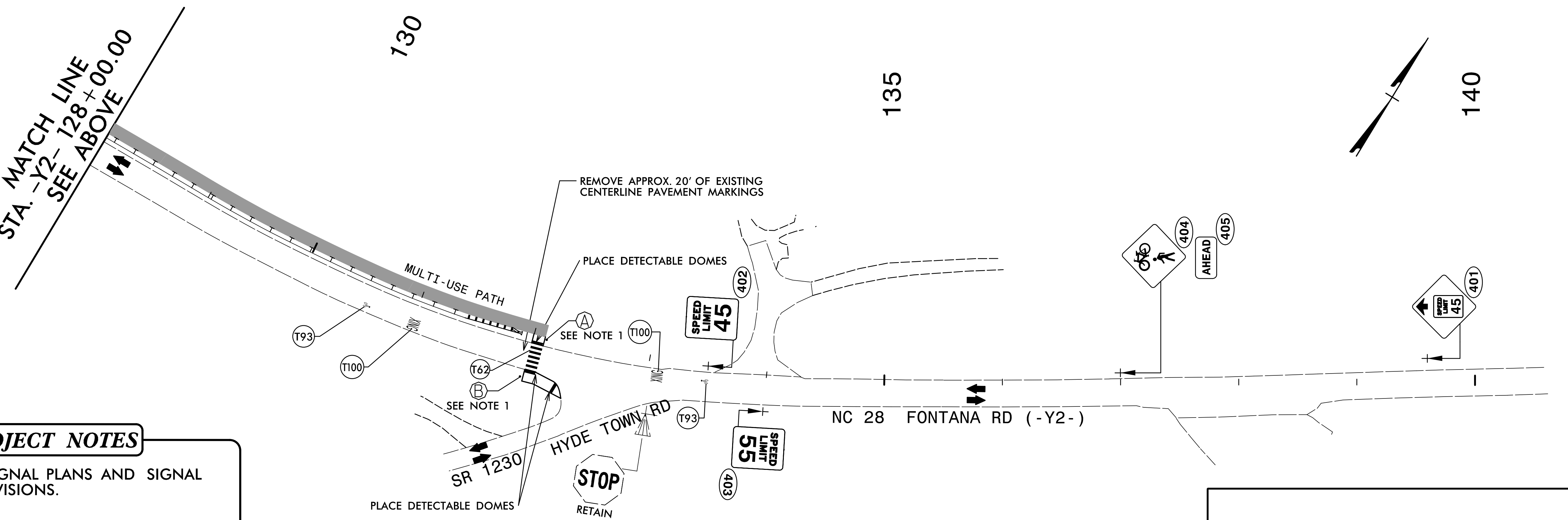
MATCH LINE
 STA. -Y2- 128 + 00.00
 SEE BELOW

-  W11-5 FYG
36" X 36"
-  W16-7PL FYG
18" X 30"
-  R10-25
9" X 12"
-  W11-5 FYG
36" X 36"
-  W16-7PL FYG
18" X 30"
-  R10-25
9" X 12"

MATCH LINE
 STA. -Y2- 128 + 00.00
 SEE ABOVE

PROJECT NOTES

- REFER TO SIGNAL PLANS AND SIGNAL SPECIAL PROVISIONS.

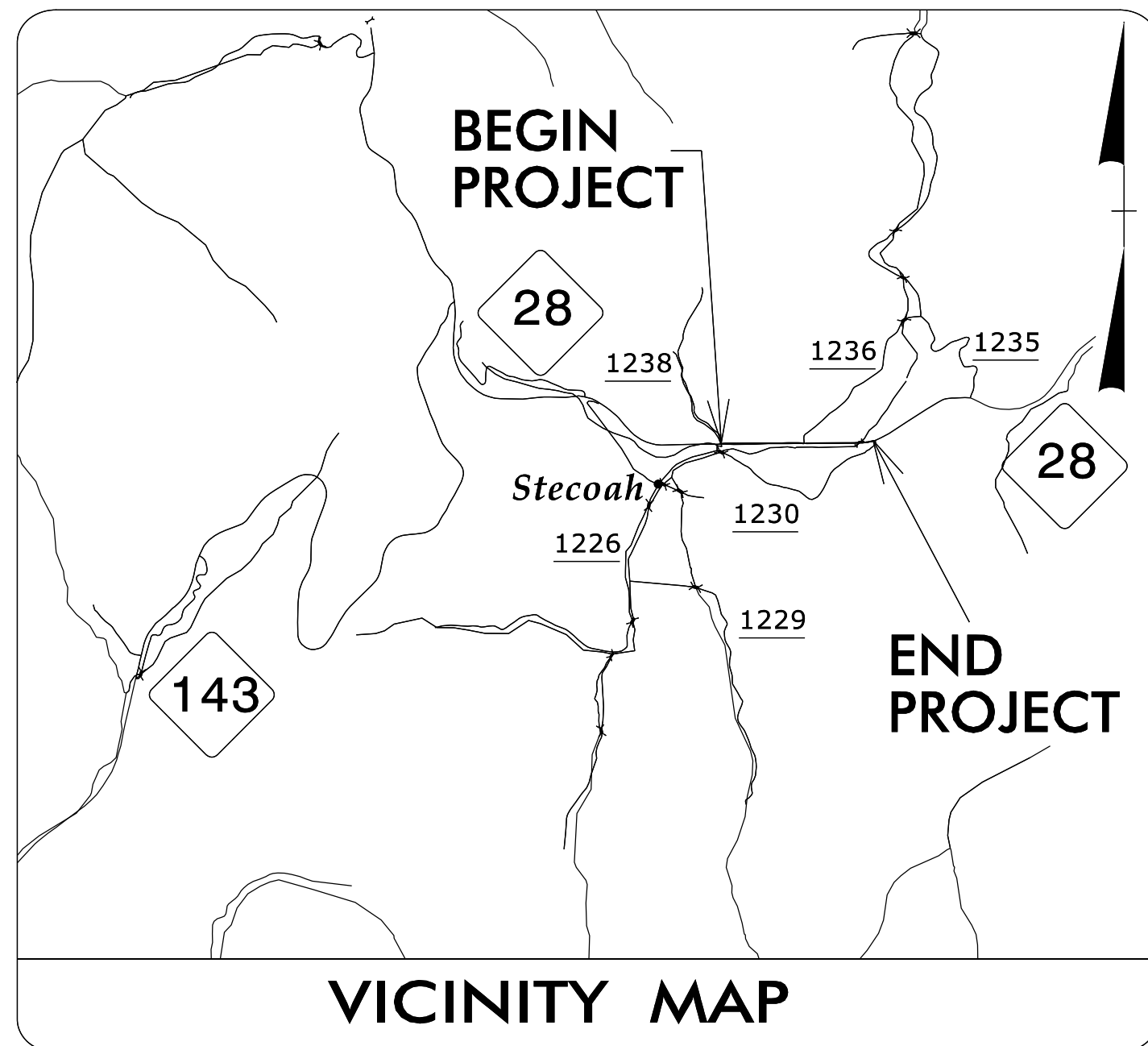


SEE SHEET SIGN-1 FOR FINAL PAVEMENT MARKING SCHEDULE.

PAVEMENT MARKING & SIGN DETAIL

5/21/2024 X:\NC001\A-0009CE\Traffic\Signing\CADD\Signing Layout Plans\A-0009CE_Sgn_SGN_04.dgn User:smelvin

TIP PROJECT: A-0009CE

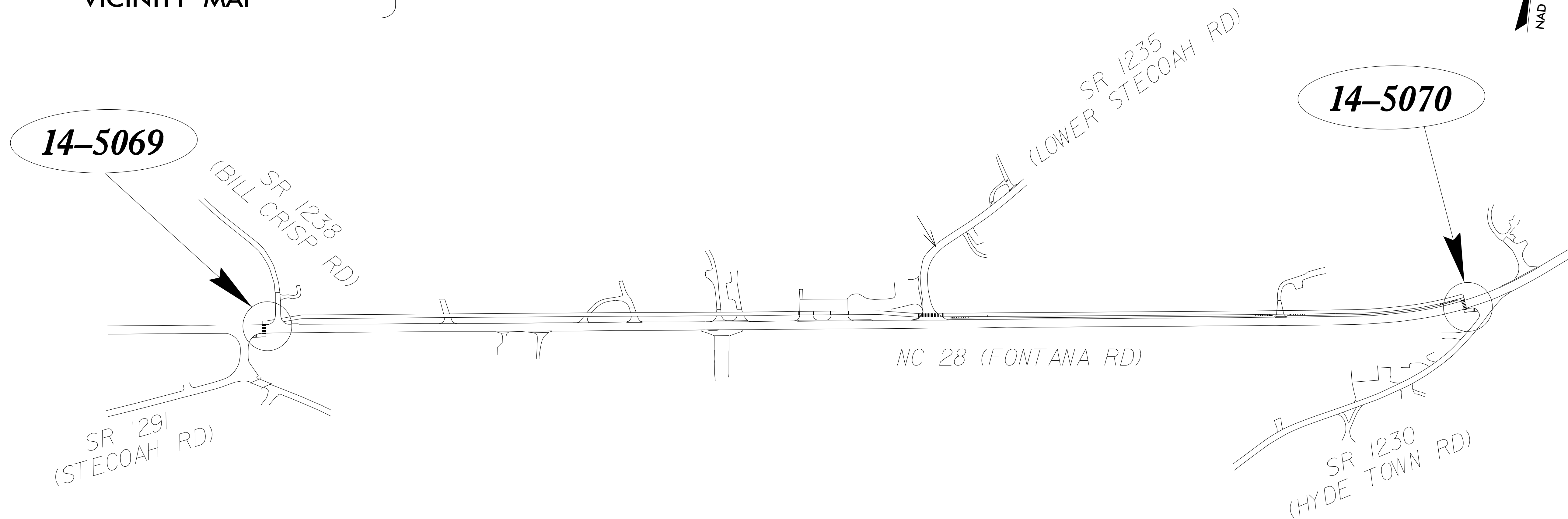


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

GRAHAM COUNTY

**LOCATION: MULTI-USE PATH ALONG NC 28
 FROM SR 1238(BILL CRISP RD) TO SR 1230 (HYDE TOWN RD)**

TYPE OF WORK: RECTANGULAR RAPID FLASHING BEACON



DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED

CONTRACT:

| INDEX OF PLANS | | |
|----------------|--------------------|---|
| Sheet # | Reference # | Location /Description |
| Sig. 1.0 | ----- | Title Sheet |
| Sig. 2.0 | 14-5069 14-5070 | Standard Drawing for Rectangular Rapid Flashing Beacon |

LEGEND

-#### SIGNAL INVENTORY NUMBER

INTELLIGENT TRANSPORTATION AND SIGNALS UNIT

Contacts:
 R. Nicholas Zinser, PE - Western Region Signals Engineer

Prepared for the North Carolina Department of Transportation
 In the Office of:



VHB Engineering NC, P.C. (C-3705)
 940 Main Campus Drive, Suite 500
 Raleigh, NC 27606
 919.829.0328

Refer to Roadway Standard Drawings NCDOT" dated January 2024 and Standard Specifications for Roads and Structures" dated January 2024.

Jimmy Terry, PE
 PROJECT ENGINEER

Jianxin(Justine) Ma, PE PTOE
 PROJECT DESIGN ENGINEER

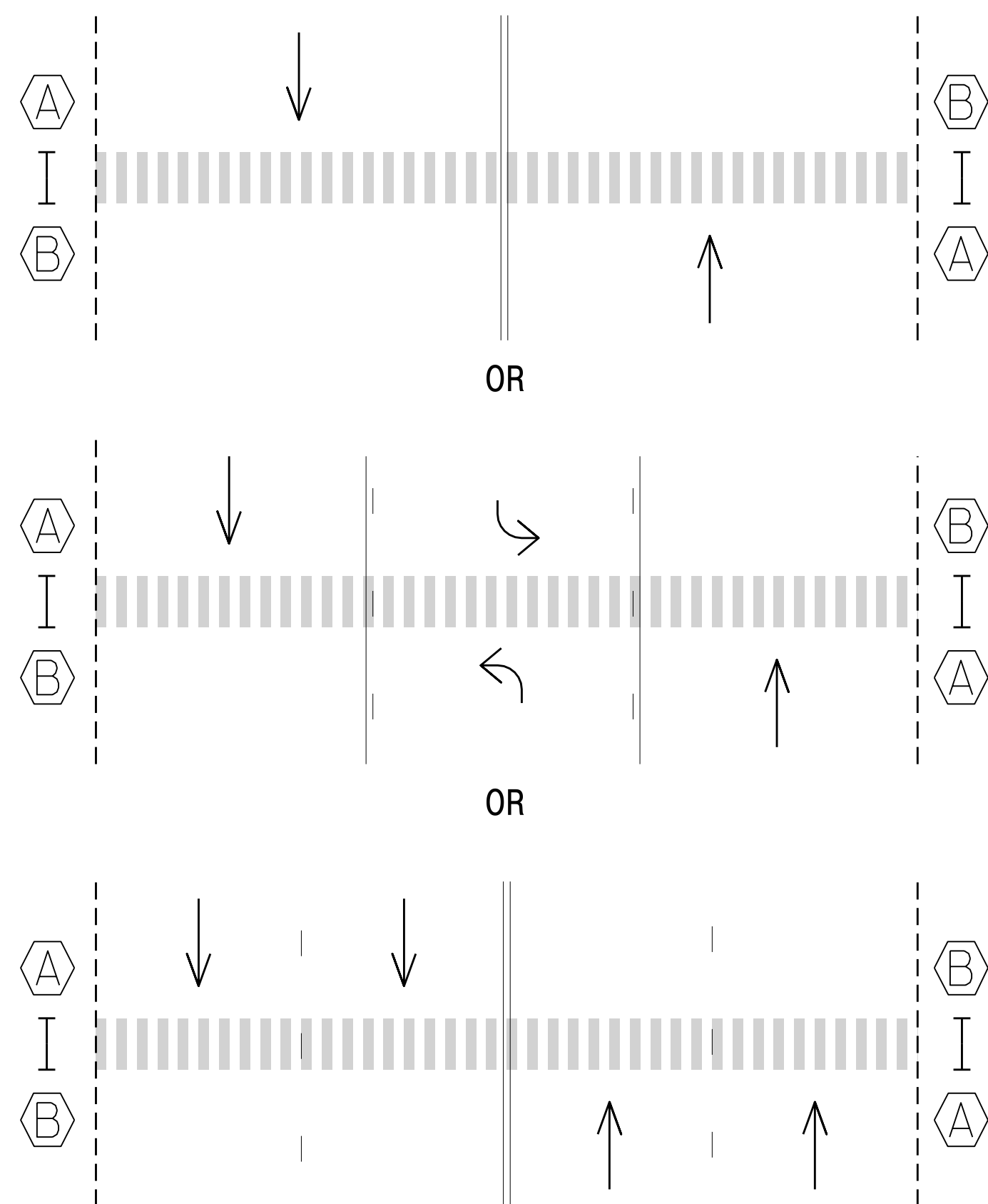
SEAL

DocuSigned by:
 Jianxin Ma 5/29/2024
 SIGNATURE DATE

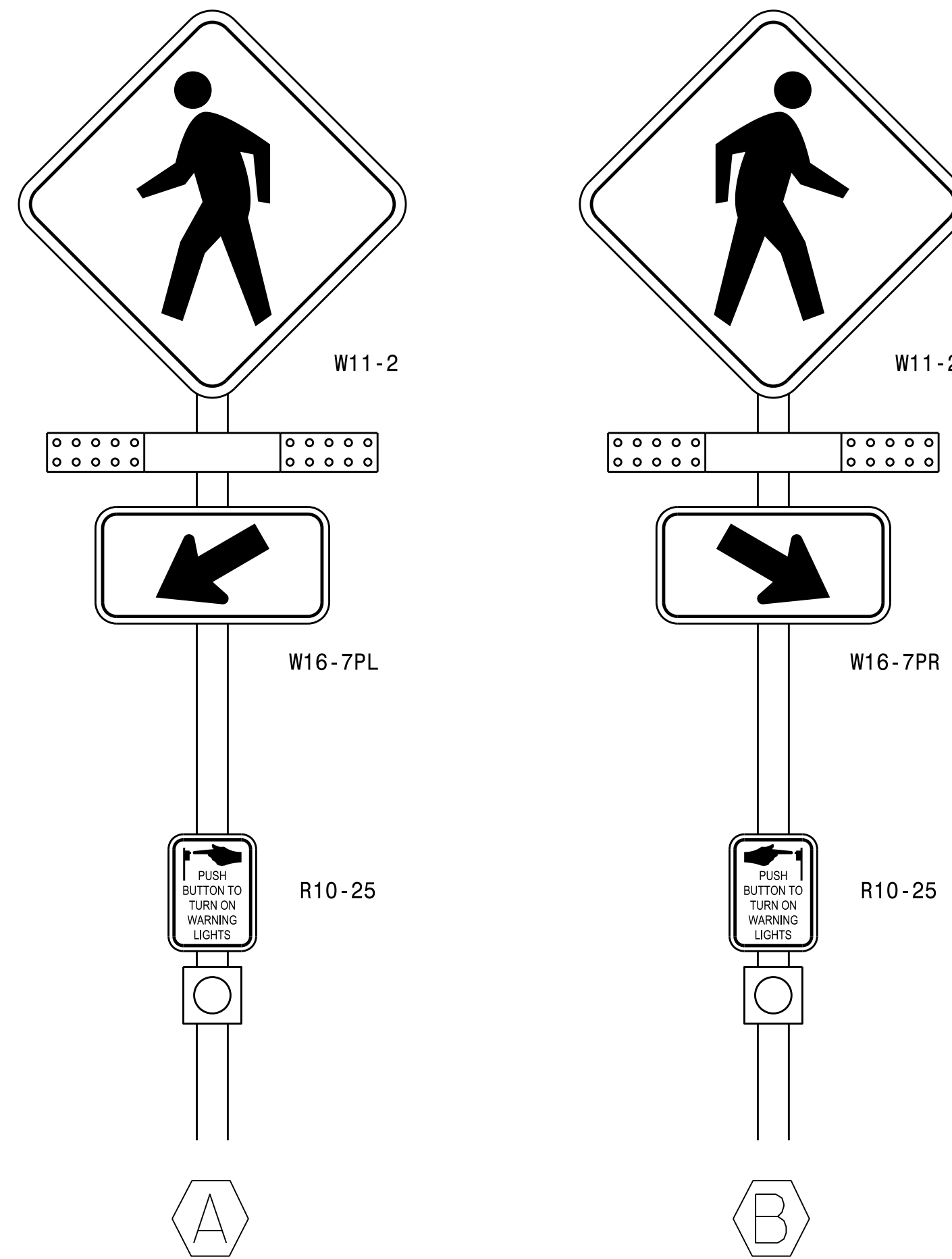
DIVISION OF HIGHWAYS
 TRANSPORTATION MOBILITY AND SAFETY DIVISION

750 N. Greenfield Parkway, Garner, NC 27529

Two to Four Lanes, Undivided



RRFB Sign Detail



Notes

- Design the RRFB in accordance with the 2009 MUTCD Interim Approval 21 -- Rectangular Rapid-Flashing Beacons at Crosswalks. The RRFB unit associated with a post-mounted sign and plaque should be located between the pedestrian crossing warning (W11-2) sign and the supplemental downward diagonal arrow plaque (W16-7p).
- If sight distance approaching the crosswalk is deemed insufficient, a supplemental RRFB with an "AHEAD" (W16-9P) plaque may be installed on that approach in advance of the crosswalk.
- When practical, the RRFB and mounting post on the right side of the road shall be mounted on the approach side of the crosswalk closest to approaching traffic.
- When practical, the RRFB and mounting post on the left side of the road may be mounted on the back of the post for the opposing approach.
- A RRFB on the left side of the roadway or in the median may be individually mounted on the approach side of the crosswalk closest to approaching traffic, or, when practical, may be mounted back to back on the same post and mounted on either side of the crosswalk in the median.
- Locate push button sign (R10-25) and push button to face crosswalk, even if it is mounted on the back side of the sign.
- All RRFB units associated with a given crosswalk (including those with an advance crossing sign) shall, when actuated, simultaneously commence operation of their rapid-flashing indications and shall cease operation simultaneously.

Timing of RRFBs

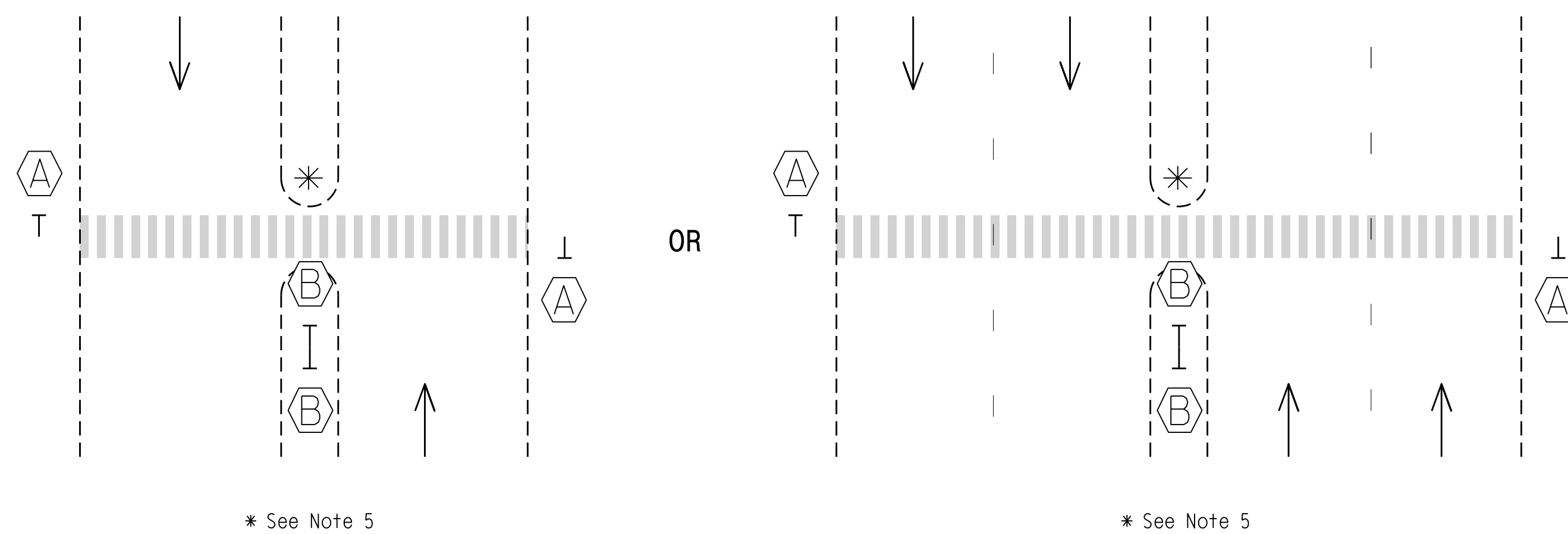
When actuated, the two yellow indications in each RRFB unit shall flash in a rapidly flashing sequence. The RRFB shall flashing sequence shall provide enough time for pedestrians to cross from curb to curb. It is recommended to be a minimum of 7 seconds plus the crossing distance (D) divided by 3.5 feet/per sec., rounded up to the next whole second:

$$\text{Flash Time (sec.)} = 7 + D/3.5$$

RRFBs shall provide 75 flashing sequences per minute. During each 800-millisecond flashing sequence, the left and right RRFB indications shall operate using the following sequence:

- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the left-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- The RRFB indication on the right-hand side shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 50 milliseconds.
- Both RRFB indications shall be illuminated for approximately 50 milliseconds. Both RRFB indications shall be dark for approximately 250 milliseconds.

Two or Multi-Lanes, Divided



Standard Drawing for
Rectangular Rapid
Flashing Beacon

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Signal Design Section
750 N. Greenfield Parkway
Garner, NC 27529

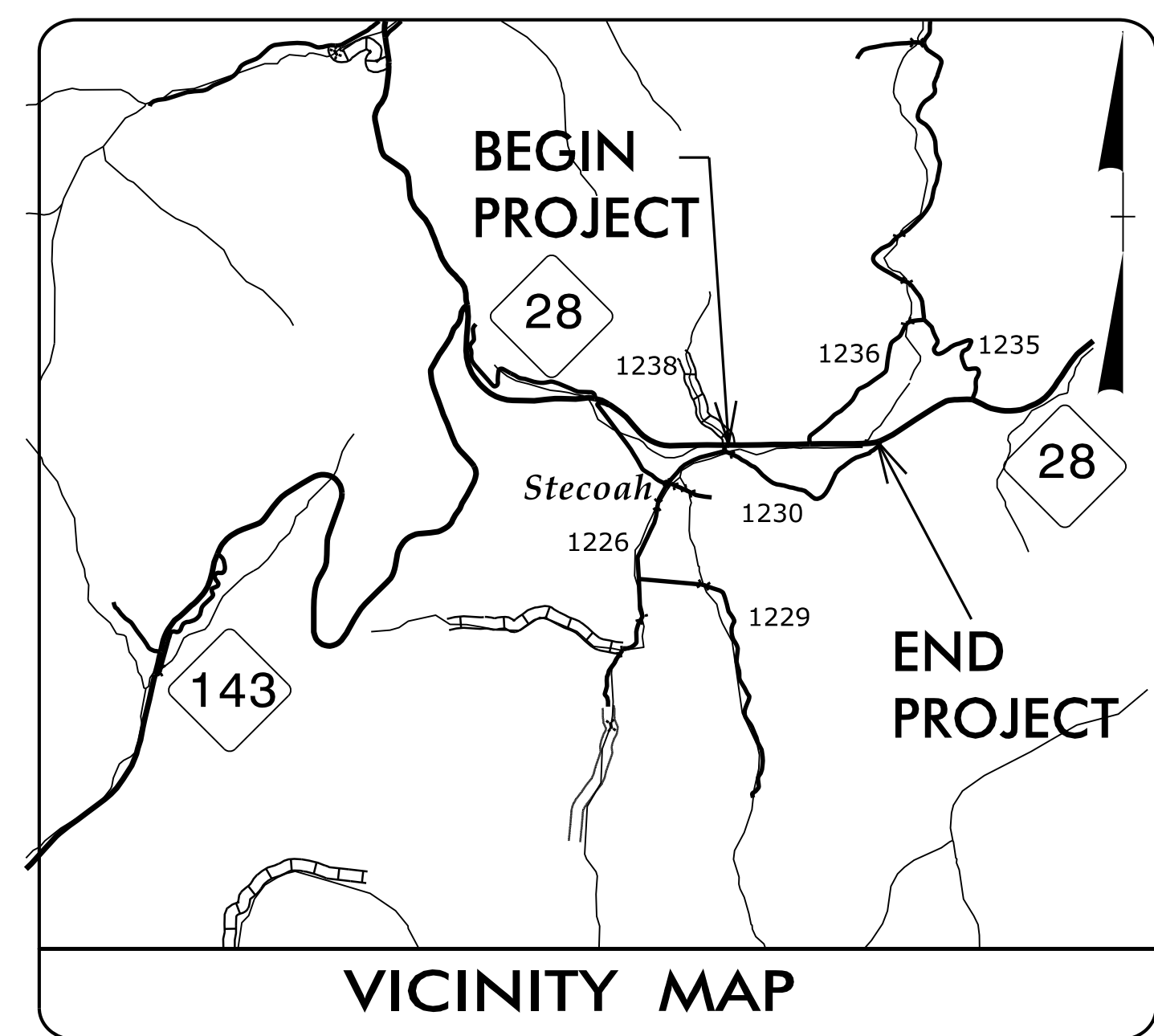
DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL
NORTH CAROLINA
PROFESSIONAL
SEAL
026486
ENGINEER
ROBERT J. ZIEMBA

DocuSigned by:
Signature
12/19/2022
DATE

09/08/19

TIP PROJECT: A-0009CE



VICINITY MAP

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

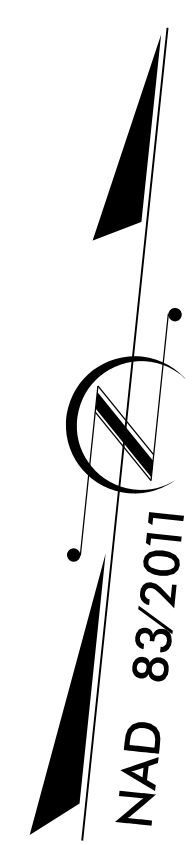
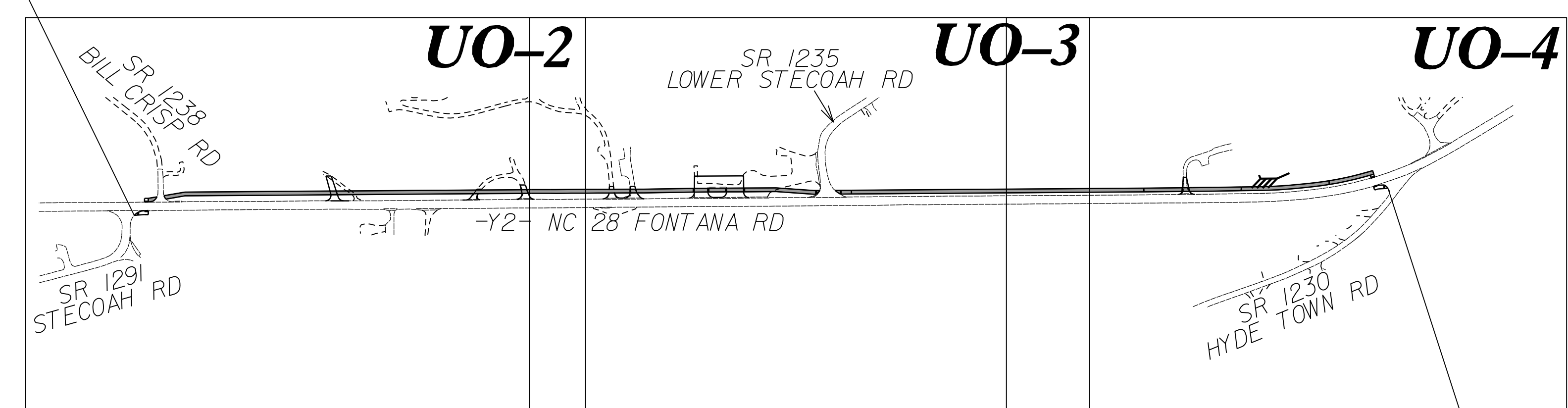
**UTILITIES BY OTHERS PLANS
GRAHAM COUNTY**

**LOCATION: MULTI-USE PATH ALONG NC 28
FROM SR 1238 (BILL CRISP RD) TO SR 1230 (HYDE TOWN RD)**
TYPE OF WORK: DISTRIBUTION POWER, COMMUNICATIONS, CATV

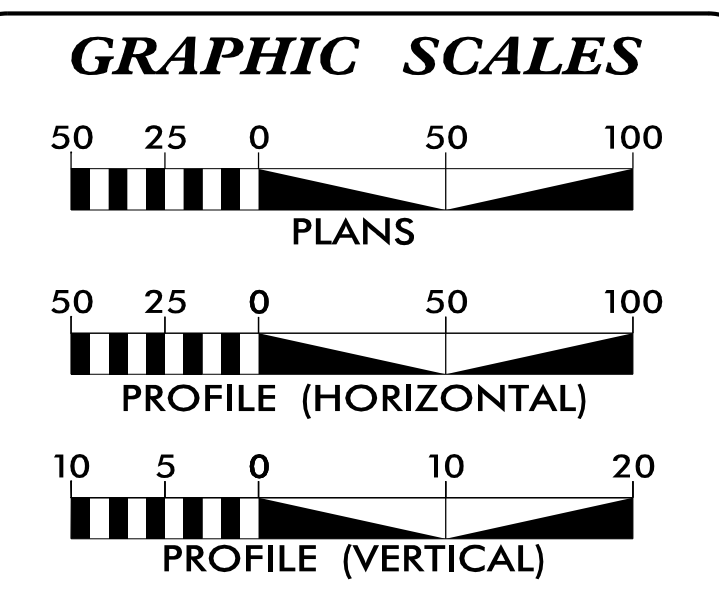
| | |
|------------|-----------|
| T.I.P. NO. | SHEET NO. |
| A-0009CE | UO-1 |

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 TIP PROJECT A-0009CE
-Y2- STA. 98 + 85**



**END TIP PROJECT A-0009CE
-Y2- STA. 132 + 35**




INDEX OF SHEETS

| SHEET NO.: | DESCRIPTION: |
|----------------|-----------------|
| UO-1 | TITLE SHEET |
| UO-2 THRU UO-4 | UBO PLAN SHEETS |

UTILITY OWNERS WITH CONFLICTS

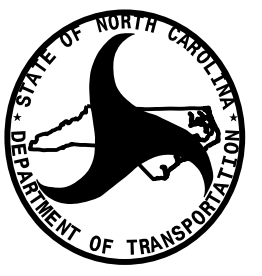
(A) POWER - DUKE ENERGY
(B) COMMUNICATIONS - FRONTIER
(C) COMMUNICATIONS/CATV - ZITO MEDIA

PREPARED IN THE OFFICE OF:



TELICS
1598 WESTBROOK PLAZA DR.
SUITE 202
WINSTON-SALEM, NC 27103
(336) 705-8844

CORY WOOD UTILITY PROJECT MANAGER
CORY WOOD PROJECT UTILITY COORDINATOR



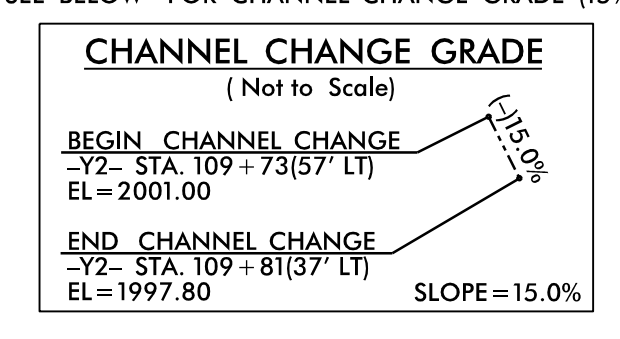
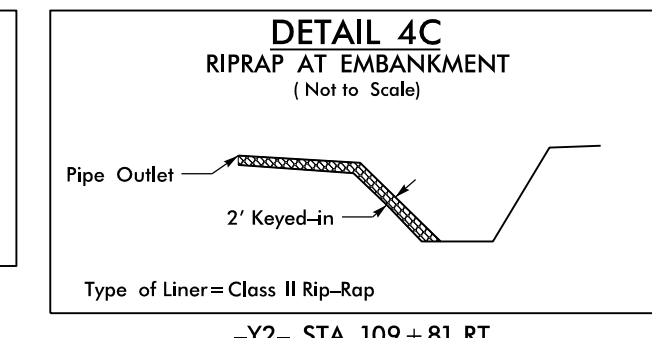
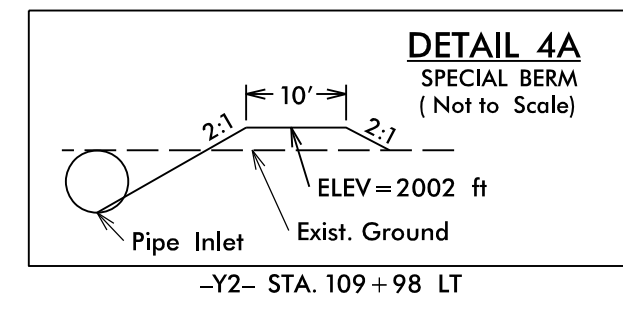
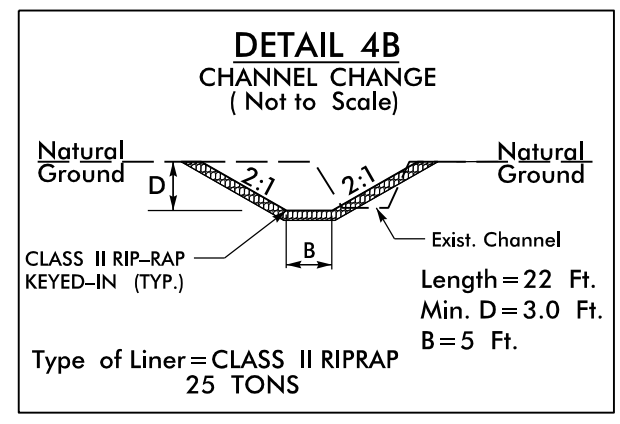
**DIVISION OF HIGHWAYS
DIVISION 14**
252 WEBSTER ROAD
SYLVIA, NC 28779

WANDA AUSTIN, PE DIVISION ENGINEER
BOB GOLDING DIVISION UTILITY ENGINEER

22-MAY-2024 2:31
C:\UBO_FILES\2024\A-0009CE\UBOs\Utilities\Engineering\UBO\Proj\A-0009CE\ut_tsh_U001.psh.dgn
\$\$\$USERNAME\$\$\$

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.

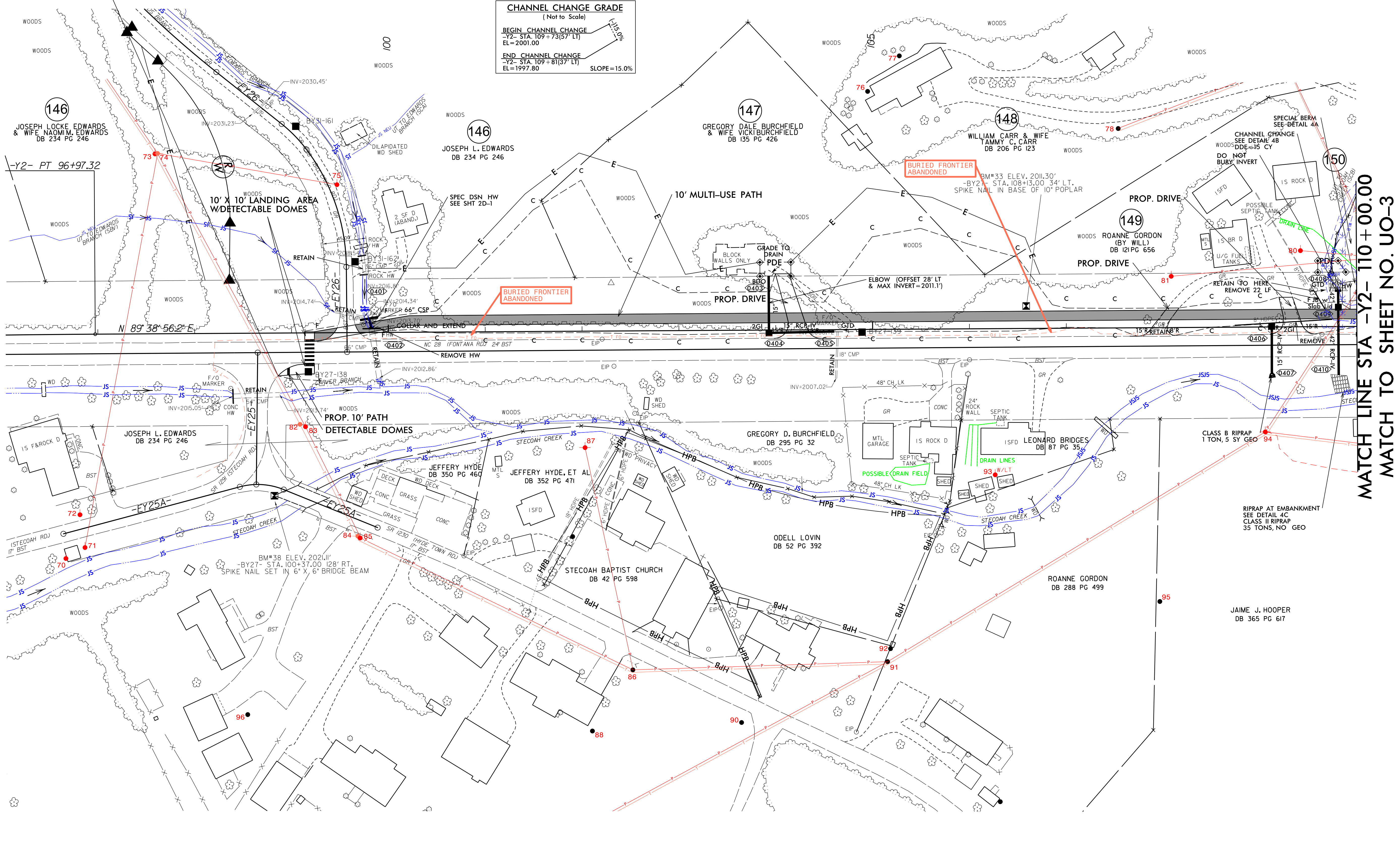


BEGIN TIP PROJECT A-0009CE

-Y2- STA 98+85

NAD 83/2011

5/14/2024 2:40 PM Engineering\UBD\Proj\A-0009CE\ut_rdy4_U002_psh.dgn



MATCH LINE STA -Y2- 110+00.00
MATCH TO SHEET NO. UO-3

24-MAY-2024 2:40 PM Engineering\UBD\Proj\A-0009CE\ut_rdy4_U002_psh.dgn

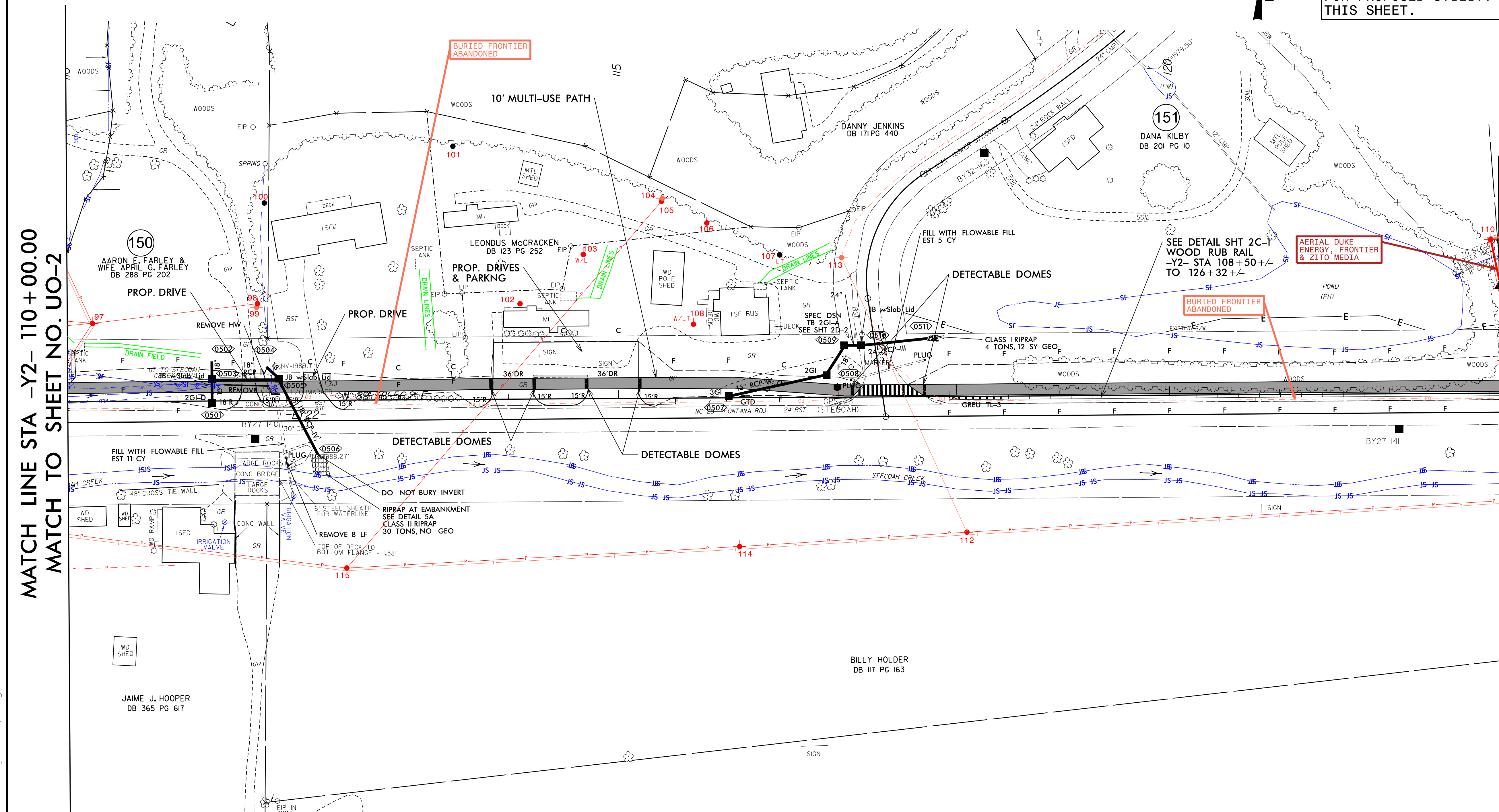
UTILITIES BY OTHERS

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.



5/14/23

2023 MAY 20 2:23 PM C:\Users\jhooper\OneDrive\Documents\Engineering\UBON\Project\A-0009CE\ut_rdy5_U003_psh.dgn



MATCH LINE STA -Y2- 110+00.00
MATCH TO SHEET NO. UO-2

MATCH LINE STA -Y2- 123+00.00
MATCH TO SHEET NO. UO-4

JAIME J. HOOPER
DB 365 PG 617

BILLY HOLDER
DB 117 PG 163

150
AARON E. FARLEY &
WIFE APRIL G. FARLEY
DB 288 PG 202

LEONDUS McCRACKEN
DB 123 PG 252

DANNY JENKINS
DB 171 PG 440

151
DANA KILBY
DB 201 PG 10

WD SHED

WD SHED

MTL SHED

WD POLE SHED

MTL POLE SHED

REMOVE HW

PROP. DRIVE

PROP. DRIVES & PARKING

DETECTABLE DOMES

SEE DETAIL SHT 2C-1
WOOD RUB RAIL
-Y2- STA 108+50+/-
TO 126+32+/-

BURIED FRONTIER
ABANDONED

DETECTABLE DOMES

DETECTABLE DOMES

FILL WITH FLOWABLE FILL
EST 11 CY

DO NOT BURY INVERT

REMOVE 8 LF
TOP OF DECK TO
BOTTOM FLANGE = 1.38'

RIPRAP AT EMBANKMENT
SEE DETAIL 5A
CLASS II RIPRAP
30 TONS, NO GEO

BILLY HOLDER
DB 117 PG 163

JAIME J. HOOPER
DB 365 PG 617

150
AARON E. FARLEY &
WIFE APRIL G. FARLEY
DB 288 PG 202

LEONDUS McCRACKEN
DB 123 PG 252

DANNY JENKINS
DB 171 PG 440

151
DANA KILBY
DB 201 PG 10

WD SHED

WD SHED

MTL SHED

WD POLE SHED

MTL POLE SHED

REMOVE HW

PROP. DRIVE

PROP. DRIVES & PARKING

DETECTABLE DOMES

SEE DETAIL SHT 2C-1
WOOD RUB RAIL
-Y2- STA 108+50+/-
TO 126+32+/-

BURIED FRONTIER
ABANDONED

DETECTABLE DOMES

DETECTABLE DOMES

FILL WITH FLOWABLE FILL
EST 11 CY

DO NOT BURY INVERT

REMOVE 8 LF
TOP OF DECK TO
BOTTOM FLANGE = 1.38'

RIPRAP AT EMBANKMENT
SEE DETAIL 5A
CLASS II RIPRAP
30 TONS, NO GEO

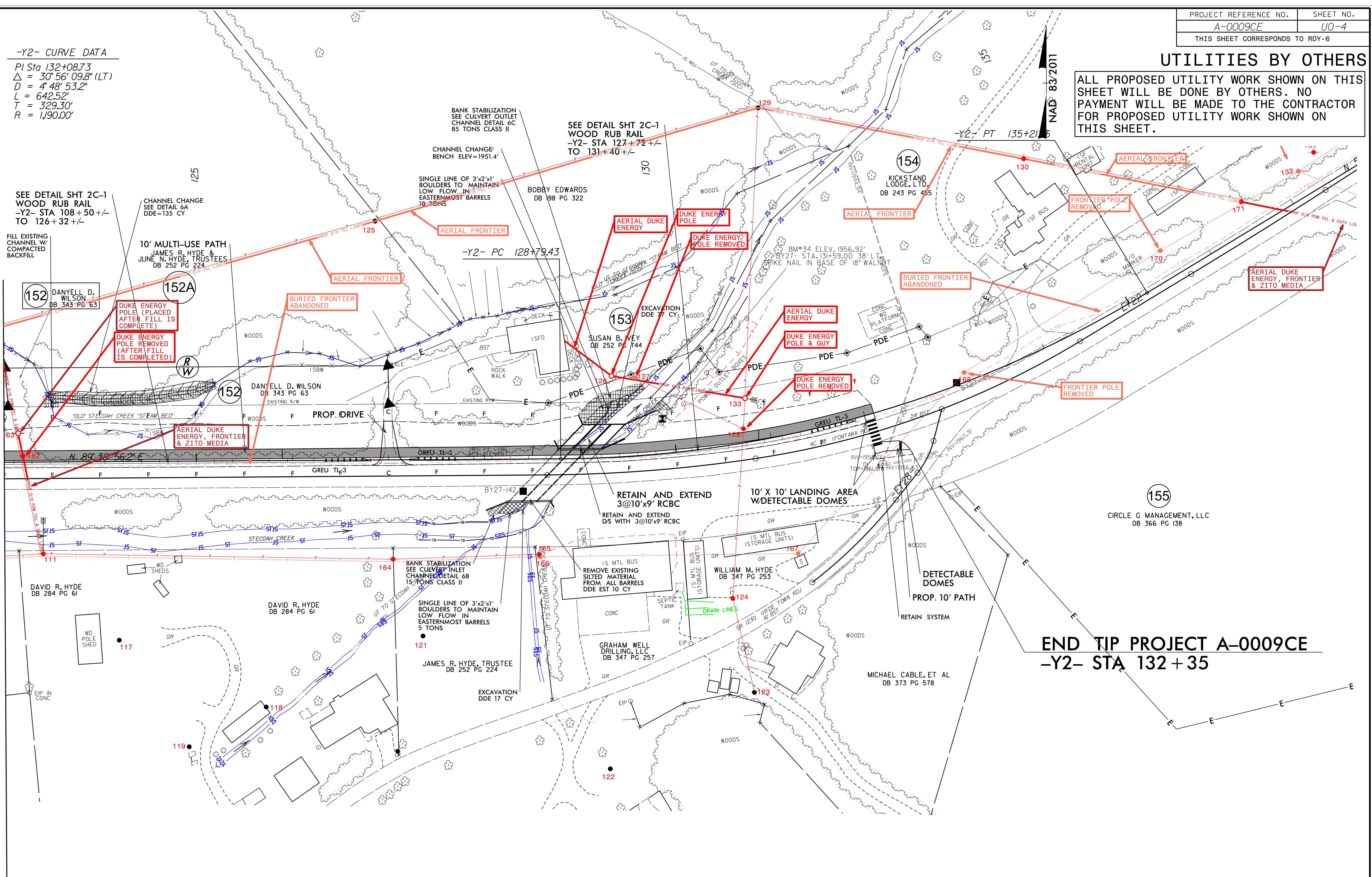
BILLY HOLDER
DB 117 PG 163

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.

-Y2- CURVE DATA
 PI Sta 132+08.73
 $\Delta = 30^{\circ} 56' 09.8" (LT)$
 $D = 4' 48" 53.2"$
 $L = 642.52'$
 $T = 329.30'$
 $R = 1,190.00'$

MATCH LINE STA -Y2- 123+00.00
MATCH TO SHEET NO. UO-3



5/14/2011

22-MAY-2024 2:01
 C:\Users\N\Documents\Engineering\UBO\Proj\A-0009CE\ut_rdy6_U004.psh.dgn