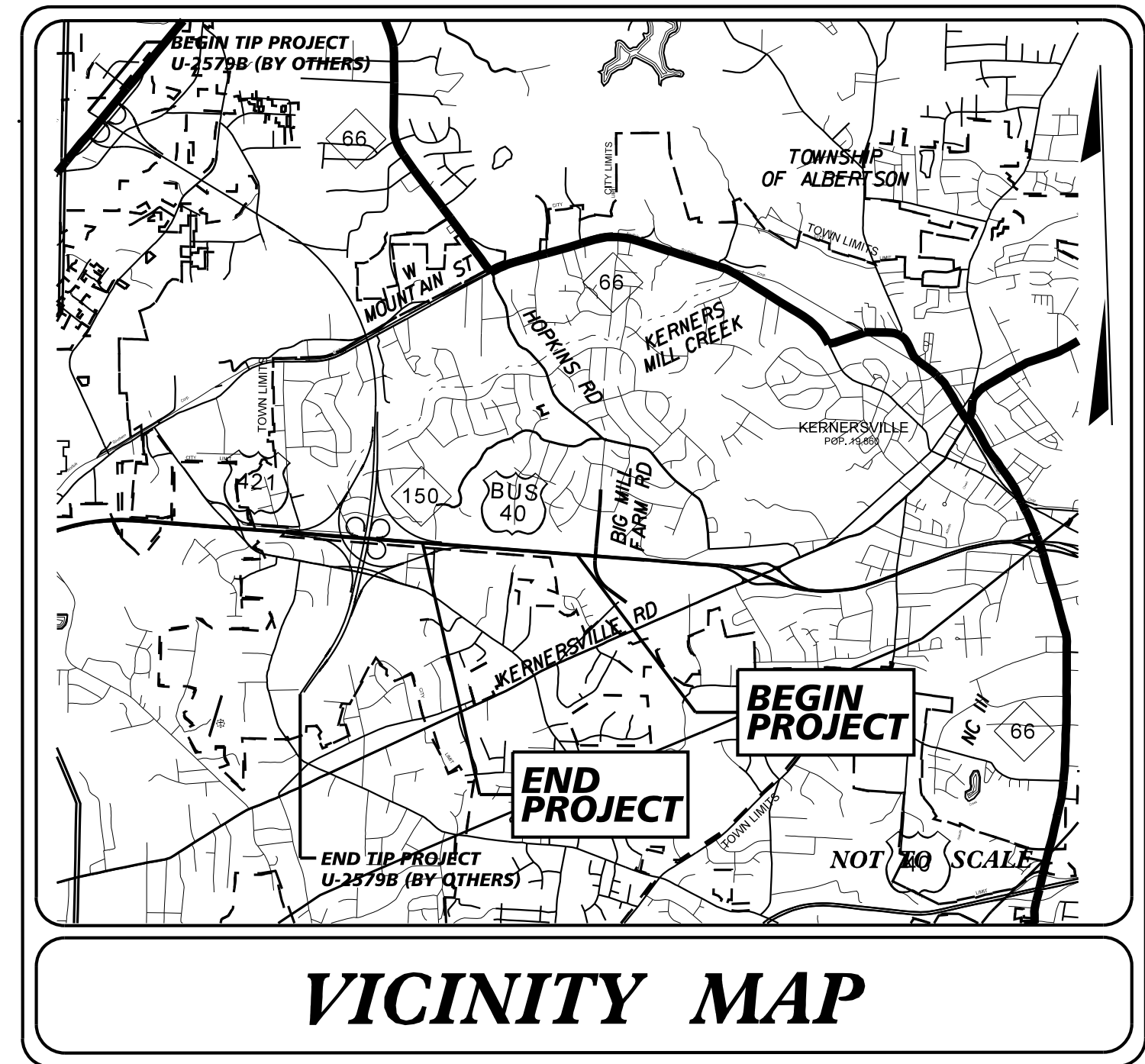


TIP PROJECT: U-2579BA

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

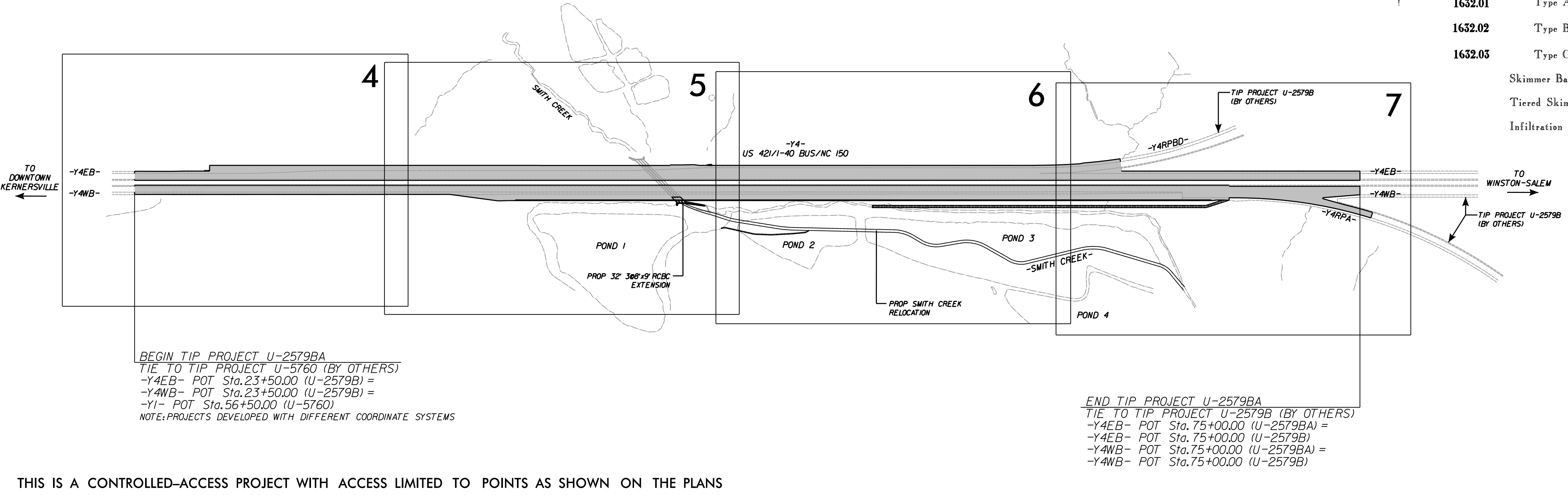
**LOCATION: FUTURE I-74 FROM WINSTON-SALEM NORTHERN BELTWAY
 EASTERN SECTION US 42/NC 150/40 BUS TO US 158**
**TYPE OF WORK: GRADING, DRAINAGE, PAVING, CULVERT AND
 STREAM RELOCATION (GRADING AND PLANTING)**



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2579BA	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
34839.1.10		P.E.	
34839.3.11		CONST.	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TD
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	III III III
1606.01	Special Sediment Control Fence	ZZZZZZZZ
1622.01	Temporary Berms and Slope Drains	TD
1630.02	Silt Basin Type B	▨
1633.01	Temporary Rock Silt Check Type-A	▨
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	▨
1633.02	Temporary Rock Silt Check Type-B	▨
	Wattle / Coir Fiber Wattle	▨
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	▨
1634.01	Temporary Rock Sediment Dam Type-A	▨
1634.02	Temporary Rock Sediment Dam Type-B	▨
1635.01	Rock Pipe Inlet Sediment Trap Type-A	▨
1635.02	Rock Pipe Inlet Sediment Trap Type-B	▨
1630.04	Stilling Basin	▨
1630.06	Special Stilling Basin	▨
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	▨
	Tiered Skimmer Basin	▨
	Infiltration Basin	▨

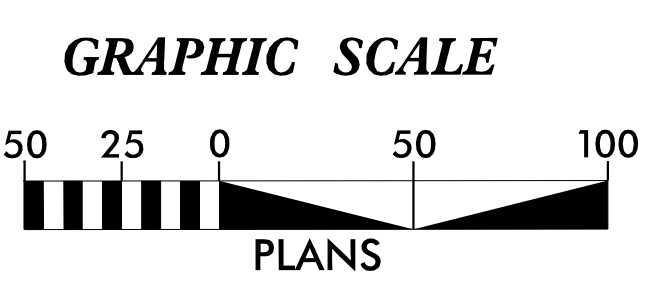


BEGIN TIP PROJECT U-2579BA
 TIE TO TIP PROJECT U-5760 (BY OTHERS)
 -Y4EB- POT Sta. 23+50.00 (U-2579B) =
 -Y4WB- POT Sta. 23+50.00 (U-2579B) =
 -Y1- POT Sta. 56+50.00 (U-5760)
 NOTE: PROJECTS DEVELOPED WITH DIFFERENT COORDINATE SYSTEMS

END TIP PROJECT U-2579BA
 TIE TO TIP PROJECT U-2579B (BY OTHERS)
 -Y4EB- POT Sta. 75+00.00 (U-2579BA) =
 -Y4WB- POT Sta. 75+00.00 (U-2579BA) =
 -Y4WB- POT Sta. 75+00.00 (U-2579BA) =
 -Y4WB- POT Sta. 75+00.00 (U-2579BA) =

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

THIS IS A CONTROLLED-ACCESS PROJECT WITH ACCESS LIMITED TO POINTS AS SHOWN ON THE PLANS



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-01000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.

Kimley»Horn

Prepared in the Office of:
Kimley-Horn
 421 Fayetteville Street, Suite 600
 Raleigh, NC 27601

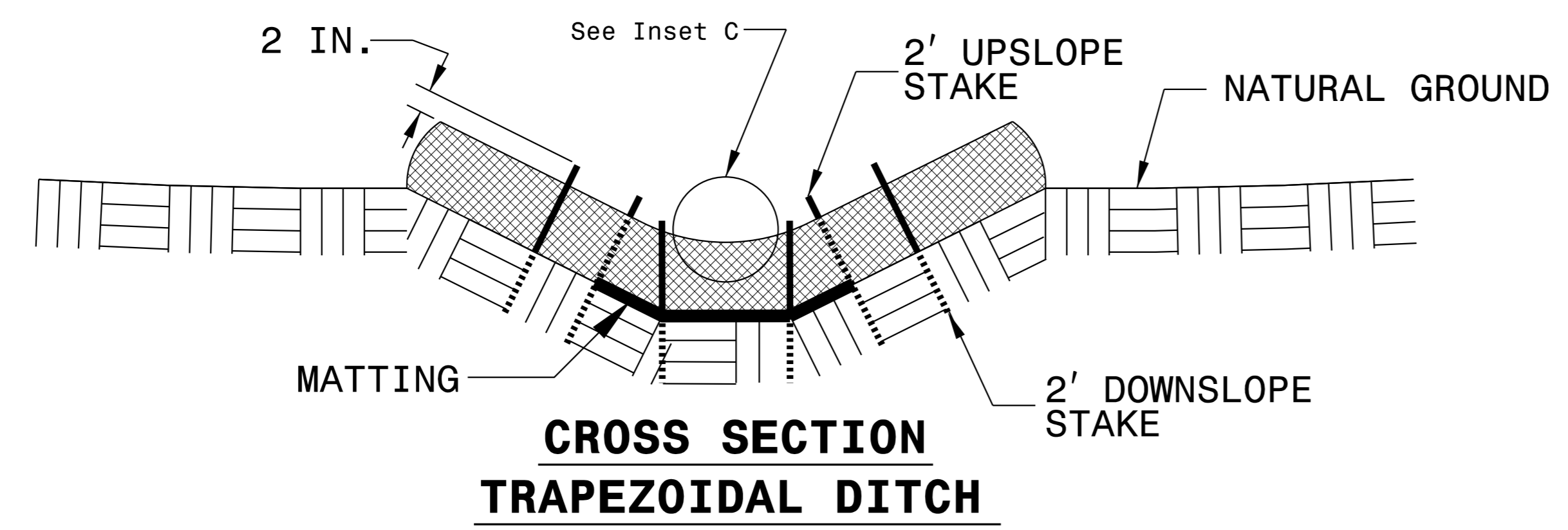
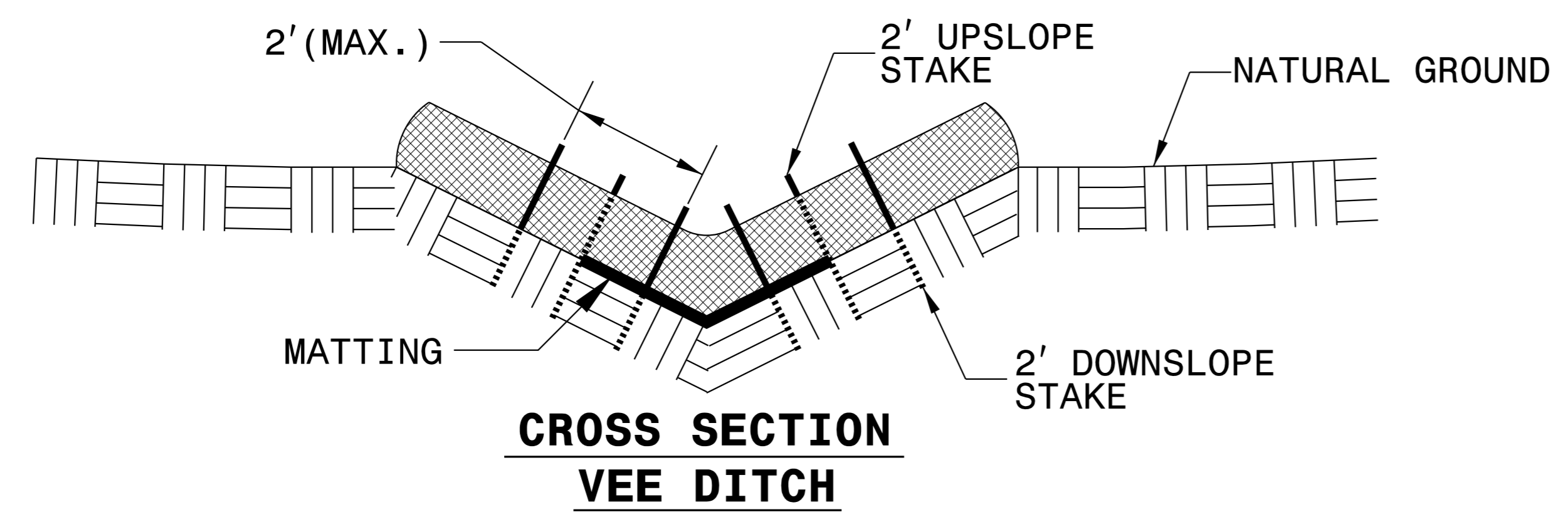
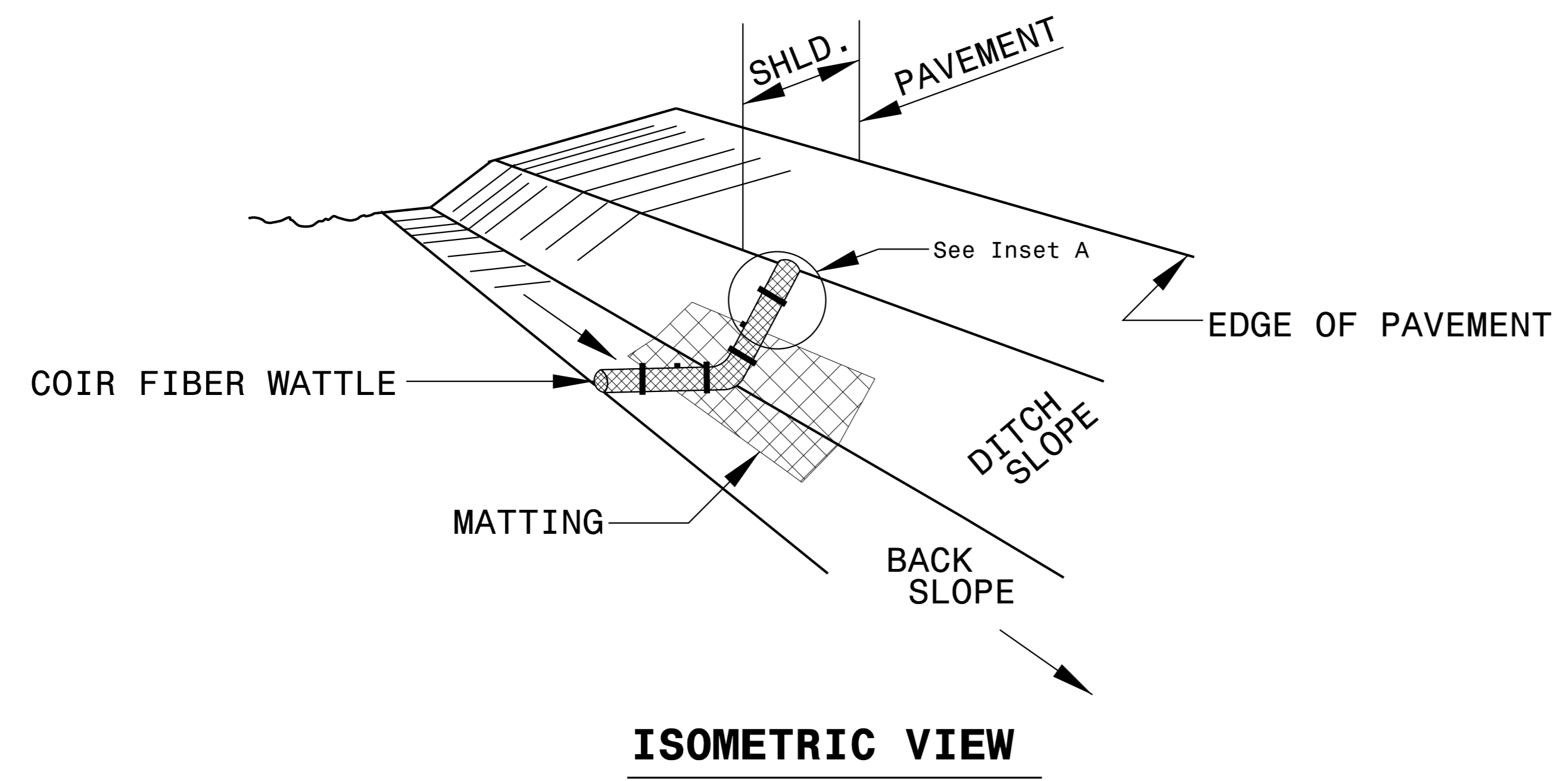
Designed by:
VANCE BLANTON 3708
 NAME LEVEL III CERTIFICATION NO.

Roadway Standard Drawings
 The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

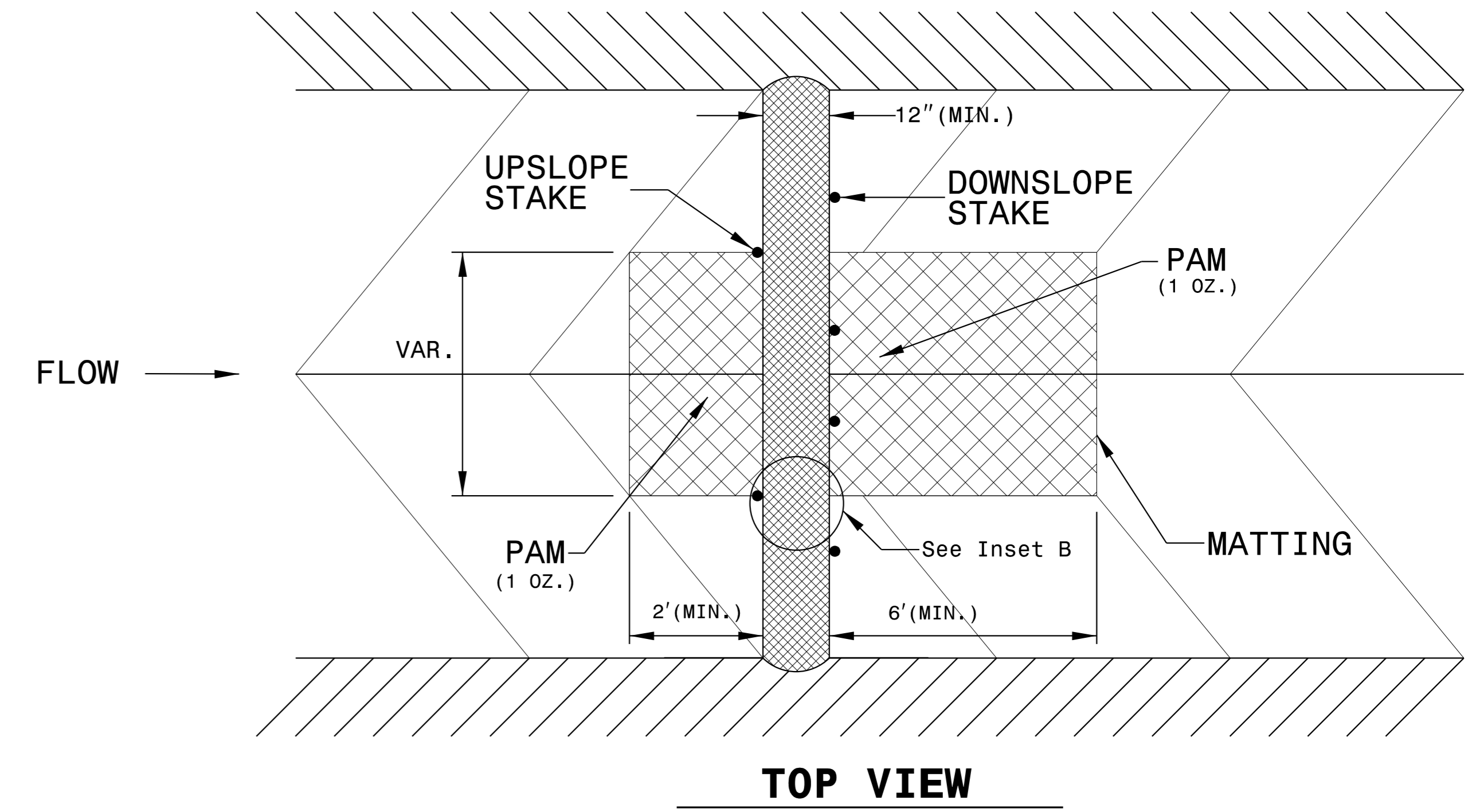
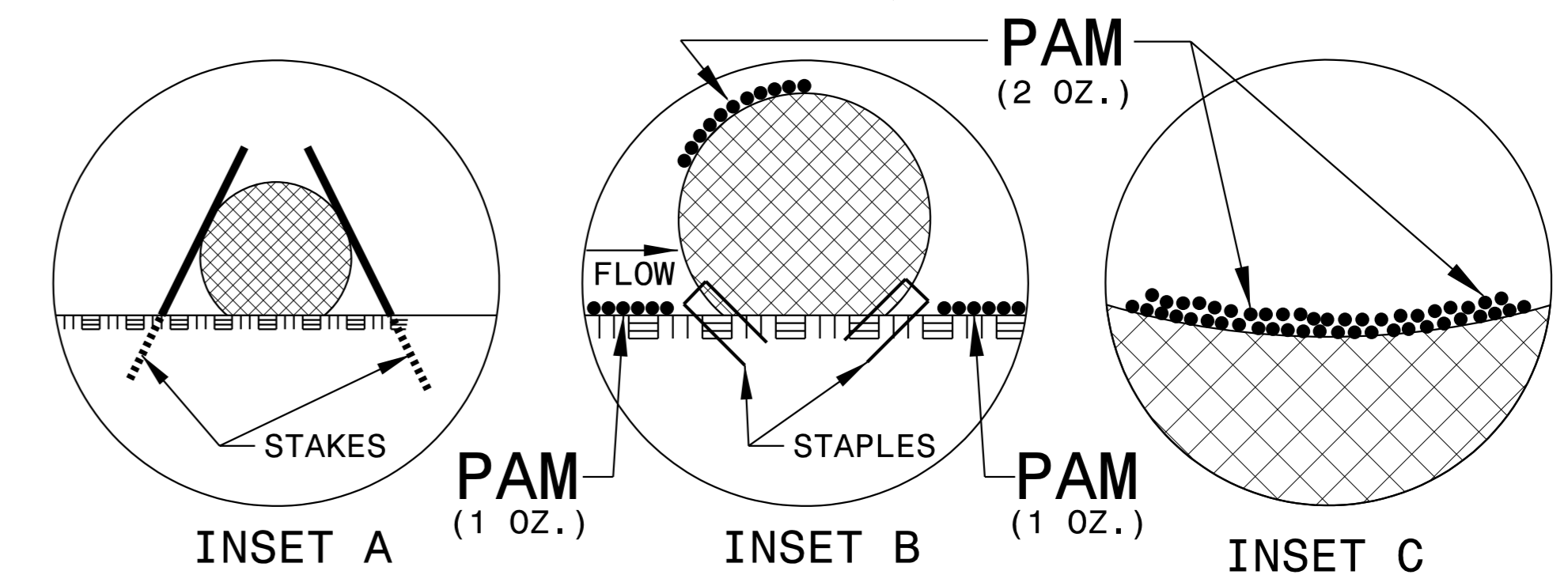
PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



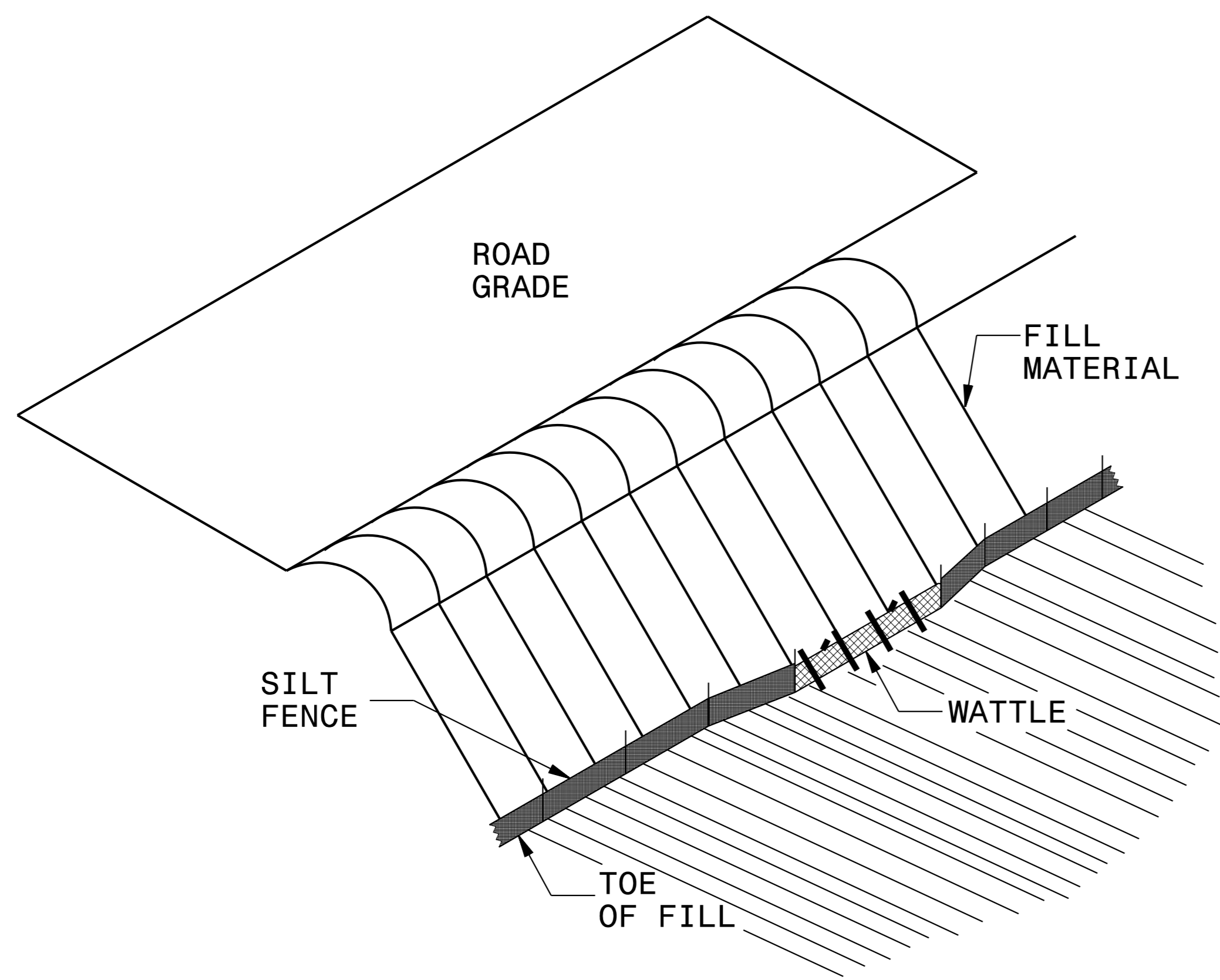
NOTES:

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
- PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
- INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.

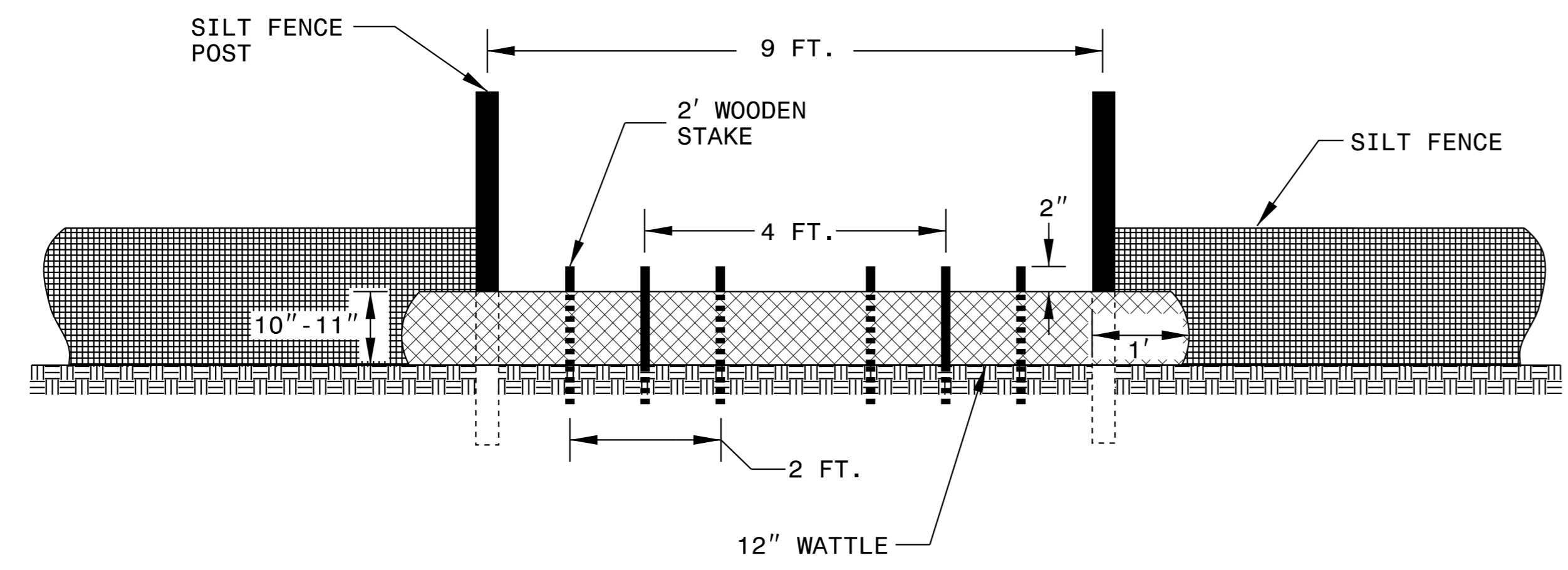


SILT FENCE COIR FIBER WATTLE BREAK DETAIL

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



ISOMETRIC VIEW

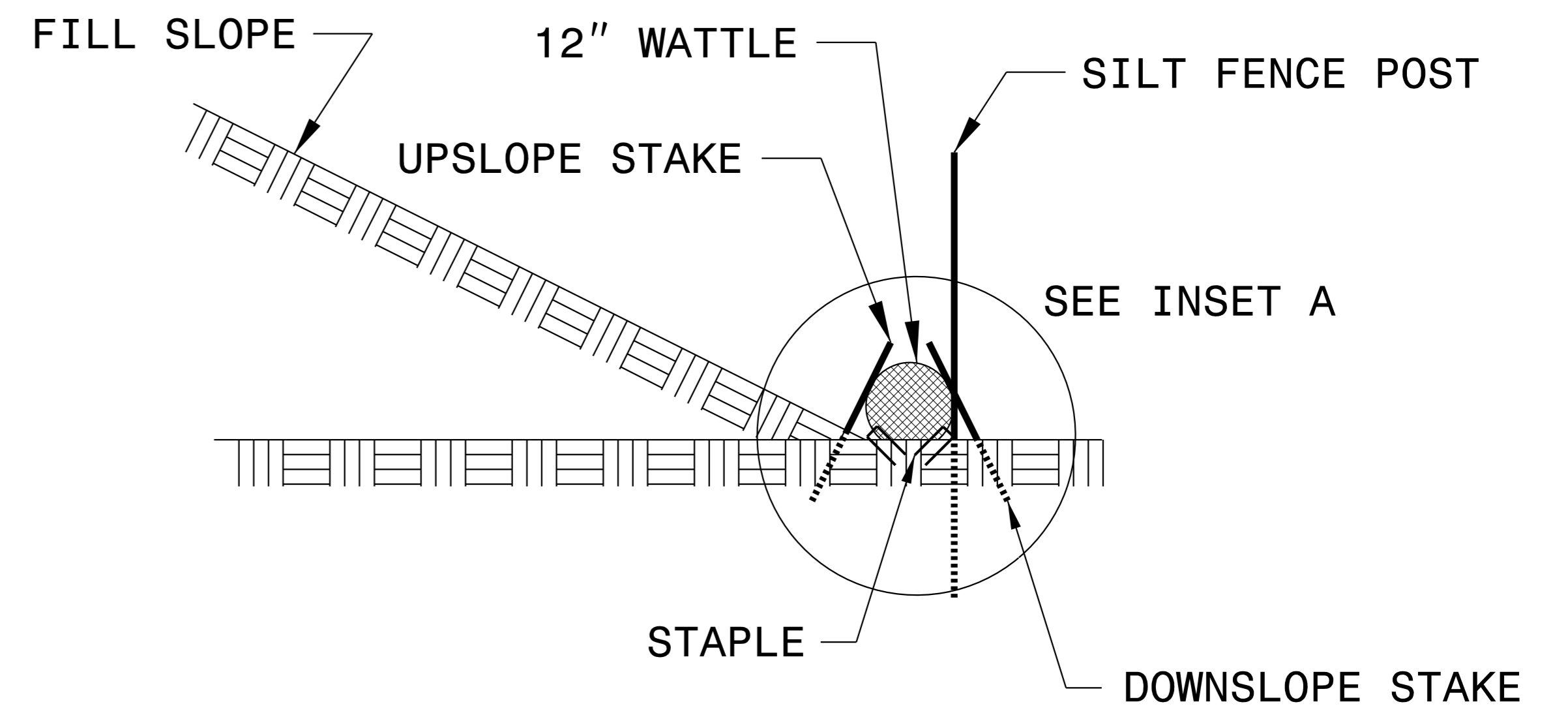
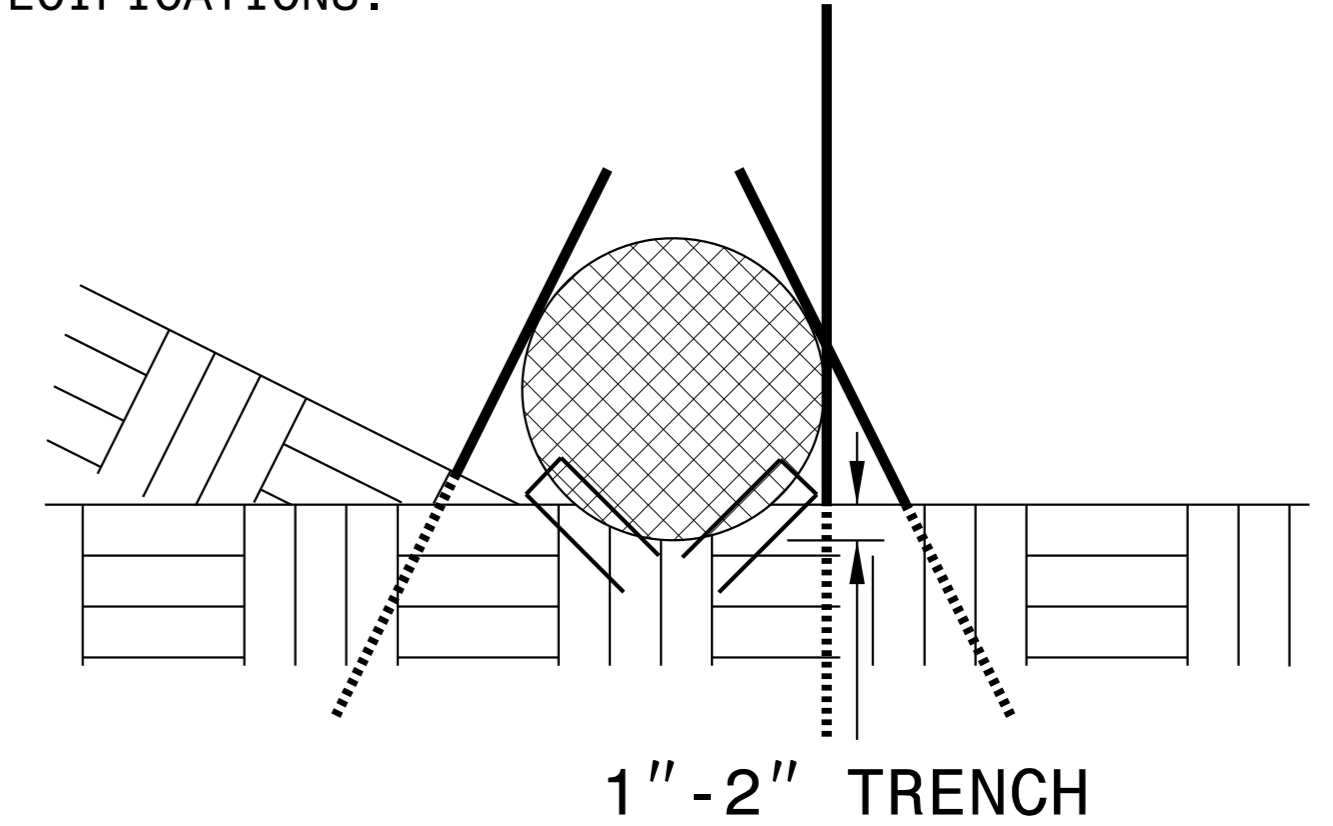


VIEW FROM SLOPE

NOTES:

- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.
- PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
- INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
- WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED.
- INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE STANDARD SPECIFICATIONS.

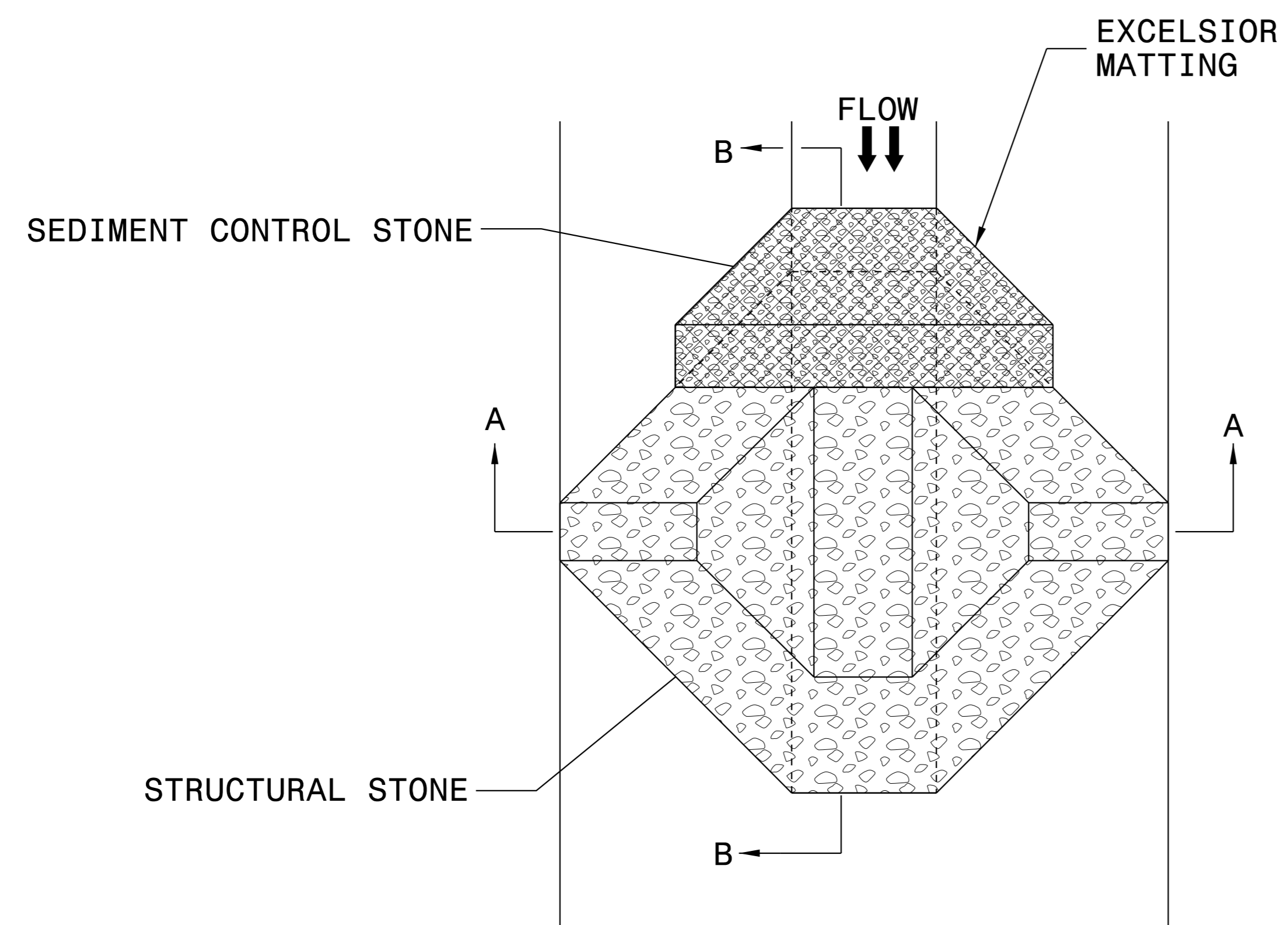
INSET A



SIDE VIEW

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-2B
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TEMPORARY ROCK SILT CHECK TYPE 'A' WITH EXCELSIOR MATTING AND POLYACRYLAMIDE (PAM)



PLAN

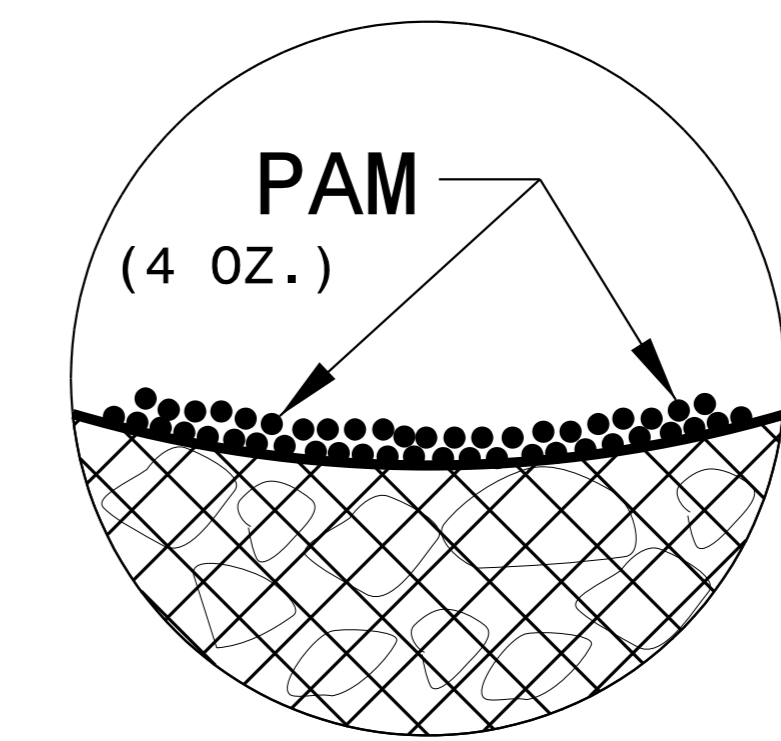
NOTES:

INSTALL TEMPORARY ROCK SILT CHECK TYPE A IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1633.01.

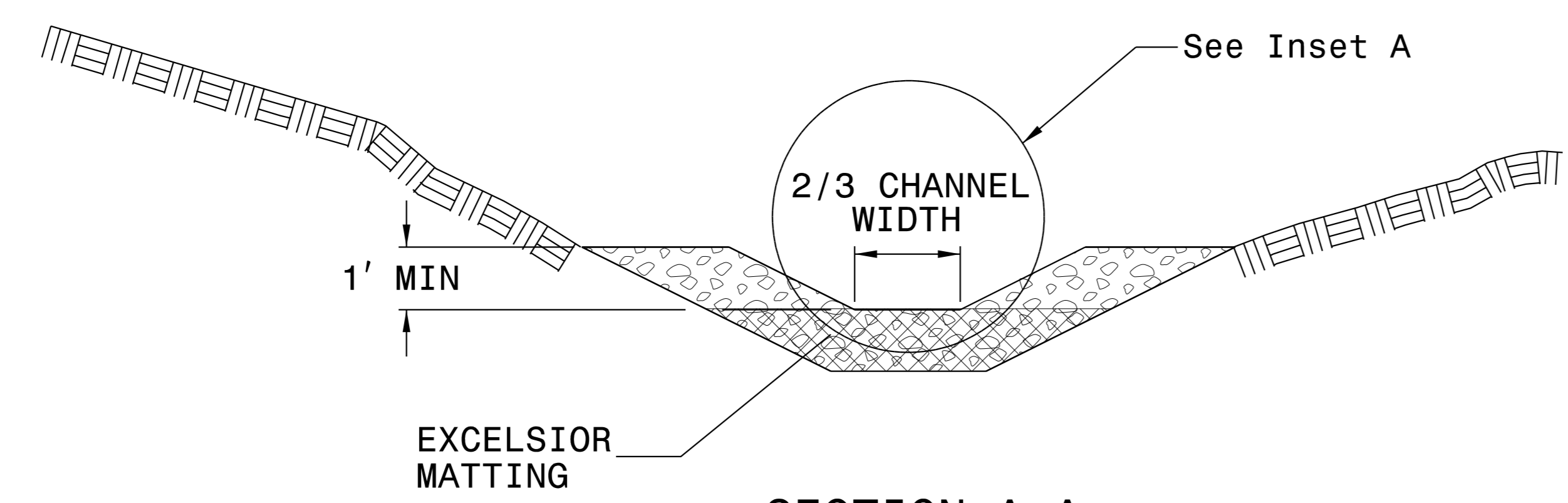
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

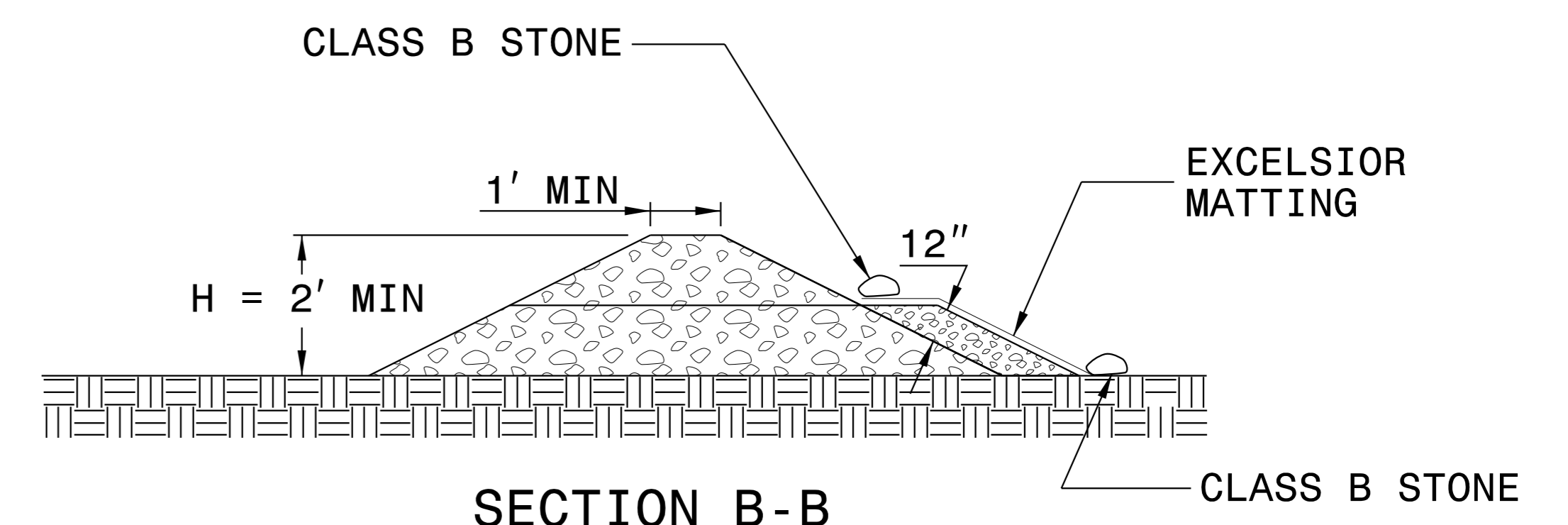
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

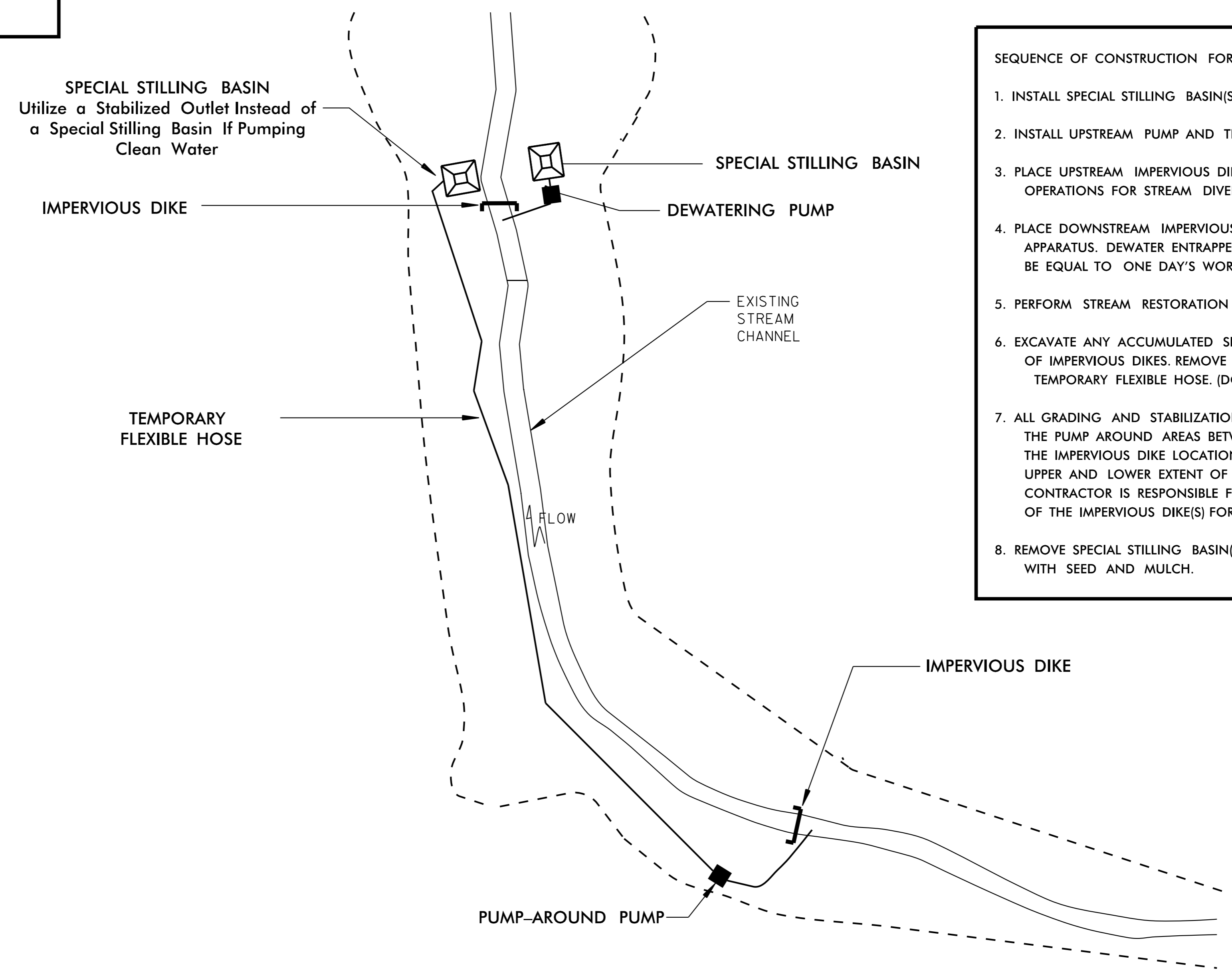
NOT TO SCALE

PROJECT REFERENCE NO. <i>U-2579BA</i>	SHEET NO. <i>EC-2C</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

EXAMPLE OF PUMP-AROUND OPERATION

(SEE SPECIAL PROVISIONS)

- NOTES:
- 1) All excavation shall be performed in only dry or isolated sections of channel.
 - 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
 - 3) All graded areas shall be stabilized within 24 hours.
 - 4) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses.
 - 5) 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. PERFORM STREAM RESTORATION WORK 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. ALL GRADING AND STABILIZATION MUST BE COMPLETED IN ONE DAY WITHIN THE PUMP AROUND AREAS BETWEEN THE IMPERVIOUS DIKES. THE IMPERVIOUS DIKE LOCATIONS AS SHOWN ON THIS SHEET ONLY SHOW THE UPPER AND LOWER EXTENT OF WORK FOR EACH STREAM SEGMENT. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION OF THE IMPERVIOUS DIKE(S) FOR EACH DAY'S WORK.
 8. REMOVE SPECIAL STILLING BASIN(S) AND BACKFILL. STABILIZE DISTURBED AREA WITH SEED AND MULCH.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

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 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

5/14/99

CONSTRUCTION SEQUENCE:

- 1) PLACE ALL EROSION CONTROL STRUCTURES ACCORDING TO PLANS.
- 2) CONSTRUCT PROPOSED SMITH CREEK RELOCATION IN THE DRY. THIS INCLUDES ALL MATTING AND PLANTINGS AS APPROPRIATE PER PLANTING SEASON. IF PLANTING OCCURS DURING PLANTING SEASON, INSTALL PERMANENT PLANTINGS. OTHERWISE, DELAY FINAL PLANTING UNTIL PLANTING SEASON. VEGETATION SHOULD BE ESTABLISHED BEFORE PROCEEDING.
- 3) REMOVE ALL FINAL EROSION CONTROL STRUCTURES NORTH OF THE PROPOSED STREAM BEFORE DIVERTING FLOW.
- 4) DIVERT LIVE SMITH CREEK INTO PROPOSED STREAM RELOCATION. INSTALL CHANNEL PLUG AT UPSTREAM END OF THE RELOCATION.
- 5) EXTEND ROADWAY DRAINAGE NETWORK AND FILL IN SMITH CREEK AS NECESSARY TO COMPLETE ROADWAY EMBANKMENT AND GRADING

NOTE:
USE 1.0 FT WEIR HEIGHT FOR TEMPORARY ROCK SILT CHECKS TYPE - A THAT ARE NOT LABELED.

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
SEE SHEET EC-2D FOR PUMPING OPERATION DETAIL. USE WHERE APPLICABLE TO TIE PROPOSED CHANNEL TO SMITH CREEK.

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

Kimley » Horn

421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-4/CONST.4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

NAD
8395

ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829

ROSS D. WALL
PATRICIA O. WALL
DB 2188 PG 355

ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829

ROSS D. WALL
PATRICIA O. WALL
DB 2188 PG 355

TOWN OF KERNERSVILLE
DB 2065 PG 1771

THOMAS W. PRINCE
ARNOLD G. KING
DB 2056 PG 1319

PAGE AND ASSOCIATES, INC.
DB 2704 PG 784

DON ALLEN HARRIS
LEXA LEIGH HARRIS
DB 3084 PG 4432

DENNIS H. PAYNE, JR.
DAWN A. PAYNE
DB 2797 PG 2978

DENNIS H. PAYNE, JR.
DAWN A. PAYNE
DB 2797 PG 2978

WHITE WALNUT, LLC
DB 3078 PG 0373

THOMAS W. PRINCE
ARNOLD G. KING
DB 2056 PG 1310

PAVED SHOULDER

NOTE :
1. FOR - Y4EB - PROFILE SEE SHEET 8
2. FOR - Y4WB - PROFILE SEE SHEET 10

REVISIONS

2/3/2020

MATCHLINE -Y4- STA. 34+50 SHEET 5

8/17/99

CONSTRUCTION SEQUENCE:

- 1) PLACE ALL EROSION CONTROL STRUCTURES ACCORDING TO PLANS. INCLUDES ALL MATTING AND PLANTINGS AS APPROPRIATE PER PLANTING SEASON. IF PLANTING OCCURS DURING PLANTING SEASON, INSTALL PERMANENT PLANTINGS. OTHERWISE, DELAY FINAL PLANTING UNTIL PLANTING SEASON. VEGETATION SHOULD BE ESTABLISHED BEFORE PROCEEDING.
- 2) REMOVE ALL FINAL EROSION CONTROL STRUCTURES NORTH OF THE PROPOSED STREAM BEFORE DIVERTING FLOW.
- 3) DIVERT LIVE SMITH CREEK INTO PROPOSED STREAM RELOCATION. INSTALL CHANNEL PLUG AT UPSTREAM END OF THE RELOCATION.
- 4) EXTEND ROADWAY DRAINAGE NETWORK AND FILL IN SMITH CREEK AS NECESSARY TO COMPLETE ROADWAY EMBANKMENT AND GRADING

NOTE:
USE 1.0 FT WEIR HEIGHT FOR TEMPORARY ROCK SILT CHECKS TYPE - A THAT ARE NOT LABELED.

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 5

NOTE:
SEE SHEET EC-2D FOR PUMPING OPERATION DETAIL. USE WHERE APPLICABLE TO TIE PROPOSED CHANNEL TO SMITH CREEK.

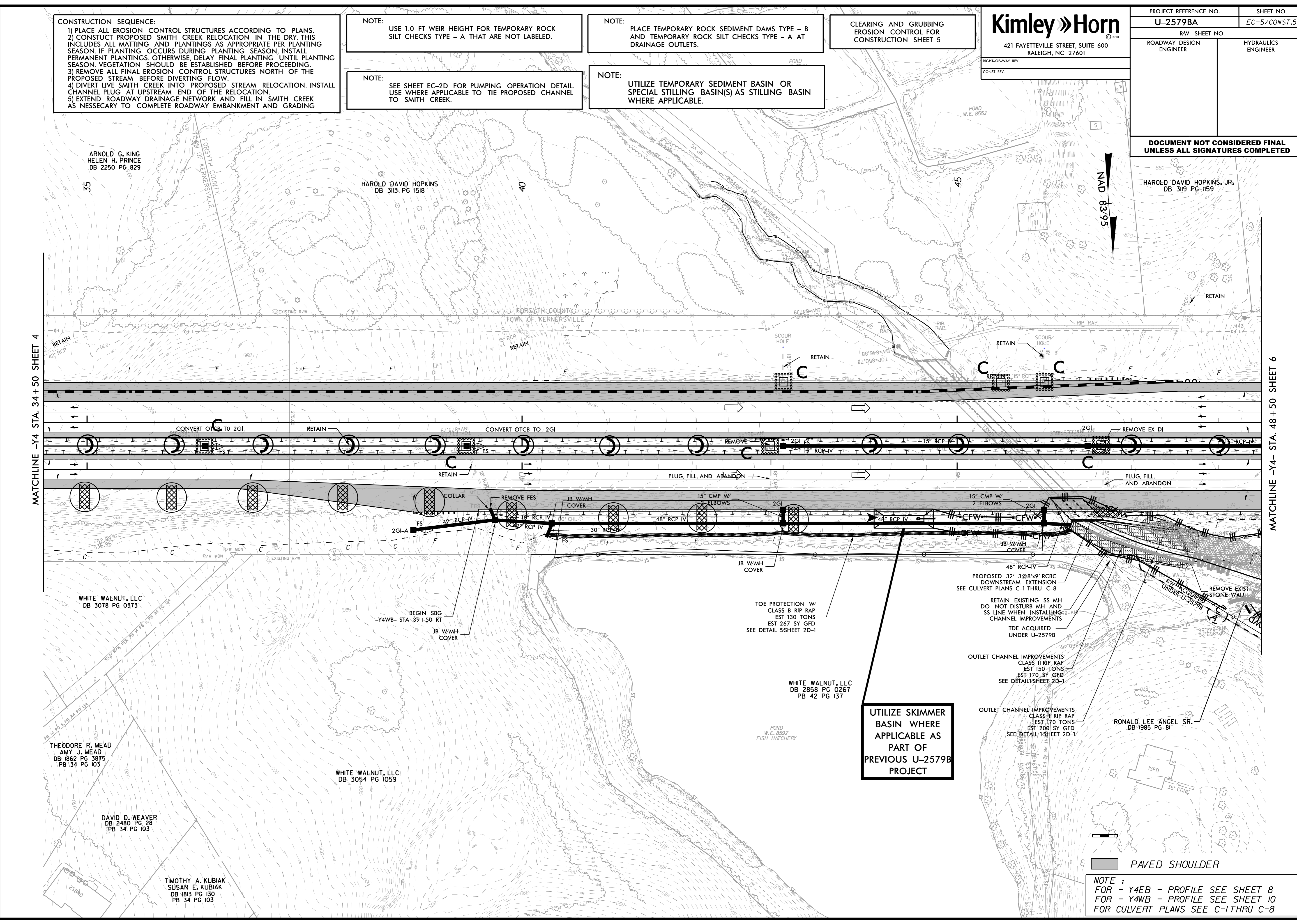
NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

Kimley » Horn
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-5/CONST.5
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HAROLD DAVID HOPKINS, JR.
DB 319 PG 1159



REVISIONS

MATCHLINE -Y4 STA. 34+50 SHEET 4

MATCHLINE -Y4 STA. 48+50 SHEET 6

UTILIZE SKIMMER BASIN WHERE APPLICABLE AS PART OF PREVIOUS U-2579B PROJECT

PAVED SHOULDER

NOTE :
FOR - Y4EB - PROFILE SEE SHEET 8
FOR - Y4MB - PROFILE SEE SHEET 10
FOR CULVERT PLANS SEE C-1 THRU C-8

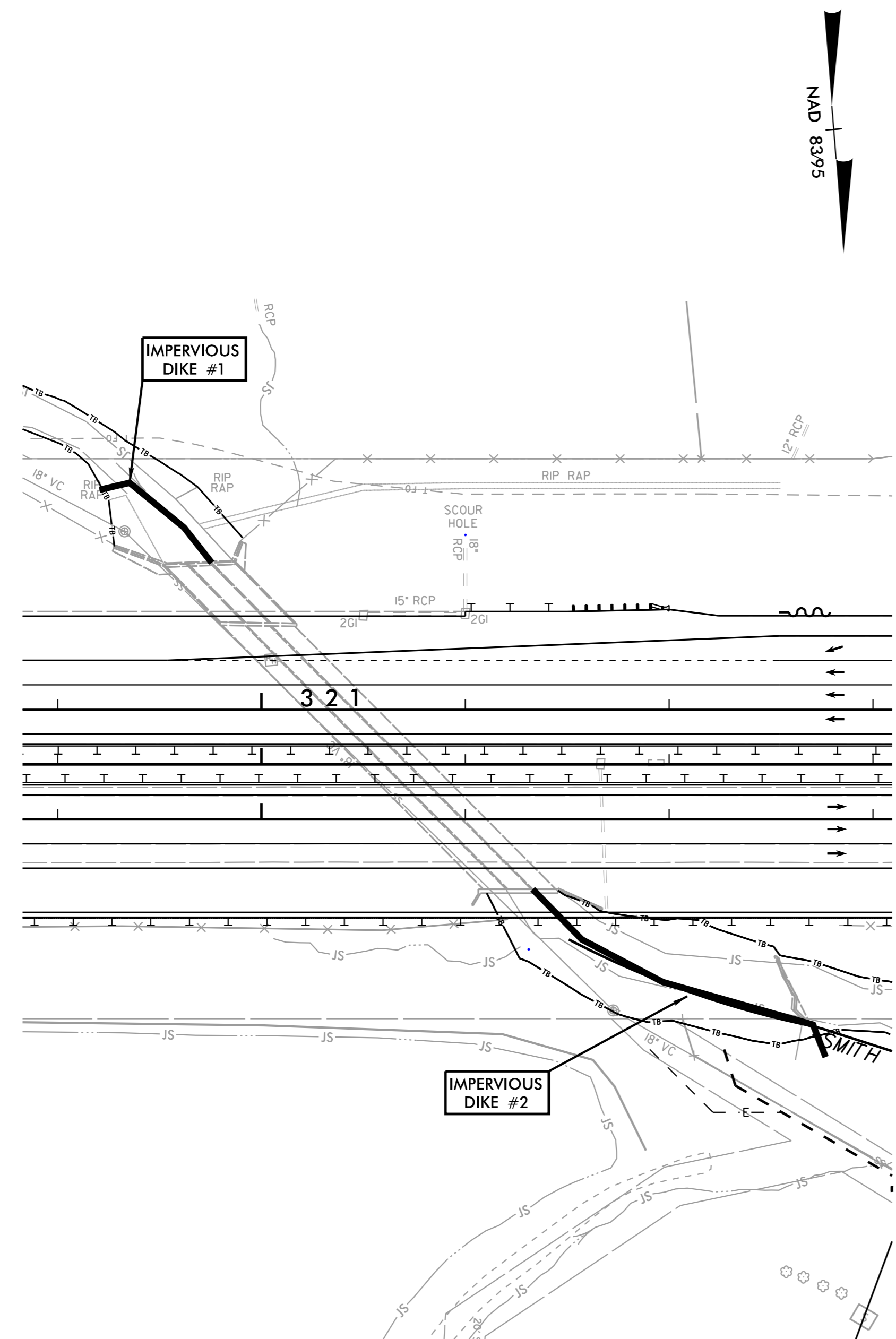
5/14/99

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-5A/CONST.5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CULVERT CONSTRUCTION SEQUENCE STA. 45 + 63.83 -Y4- 3 @ 8' X 9' RCBC EXTENSION

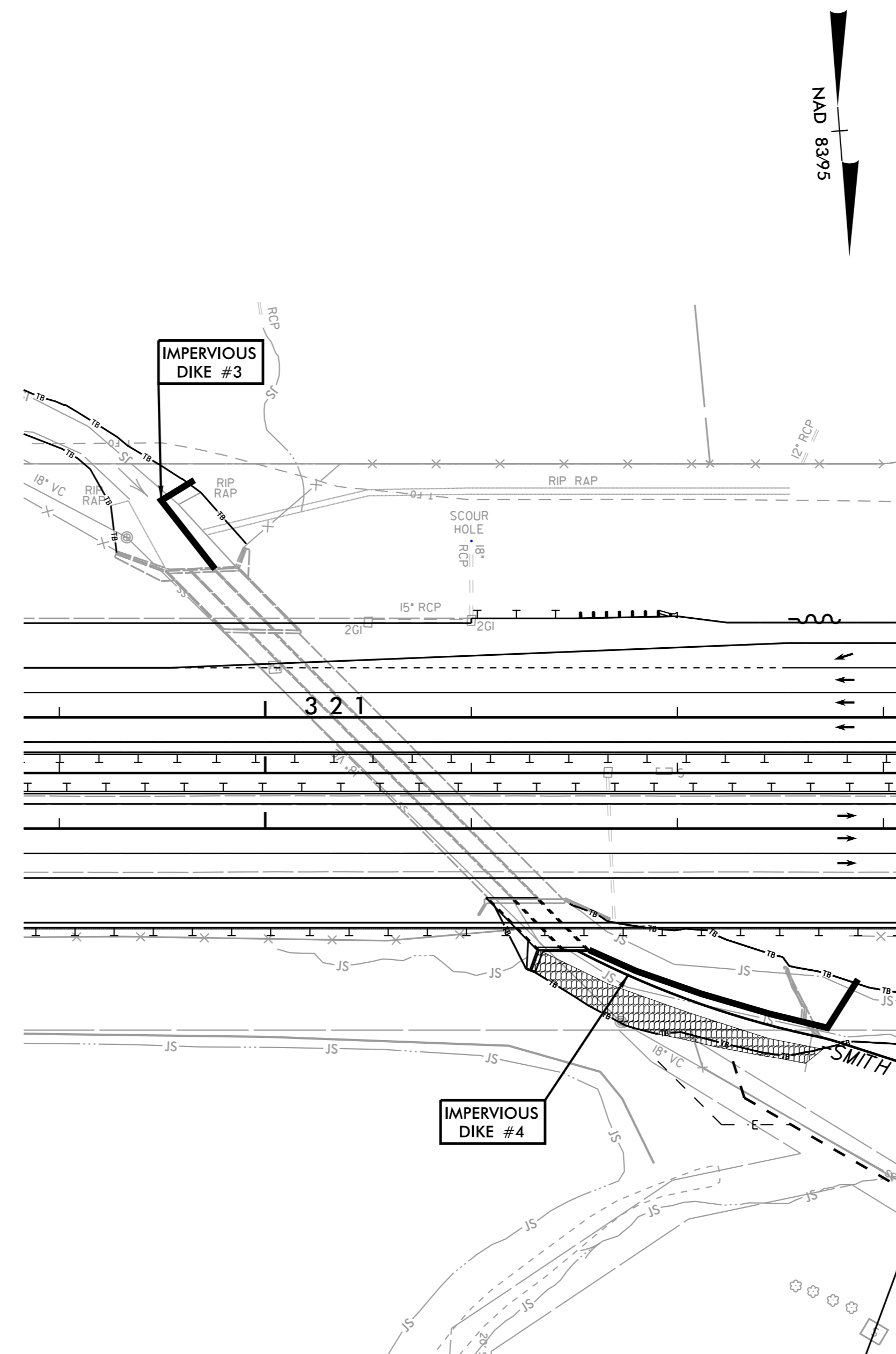
PHASE 1

- 1.) UTILIZE SPECIAL STILLING BASIN(S) AS NEEDED THROUGHOUT CULVERT CONSTRUCTION.
- 2.) CONSTRUCT IMPERVIOUS DIKES 1 AND 2, DIVERTING FLOW THROUGH BARREL 1.
- 3.) CONSTRUCT PROPOSED 8' X 9' RCBC CULVERT EXTENSIONS FOR BARRELS 2 AND 3.
- 4.) REMOVE IMPERVIOUS DIKES 1 AND 2 AFTER DOWNSTREAM IMPROVEMENTS HAVE BEEN MADE



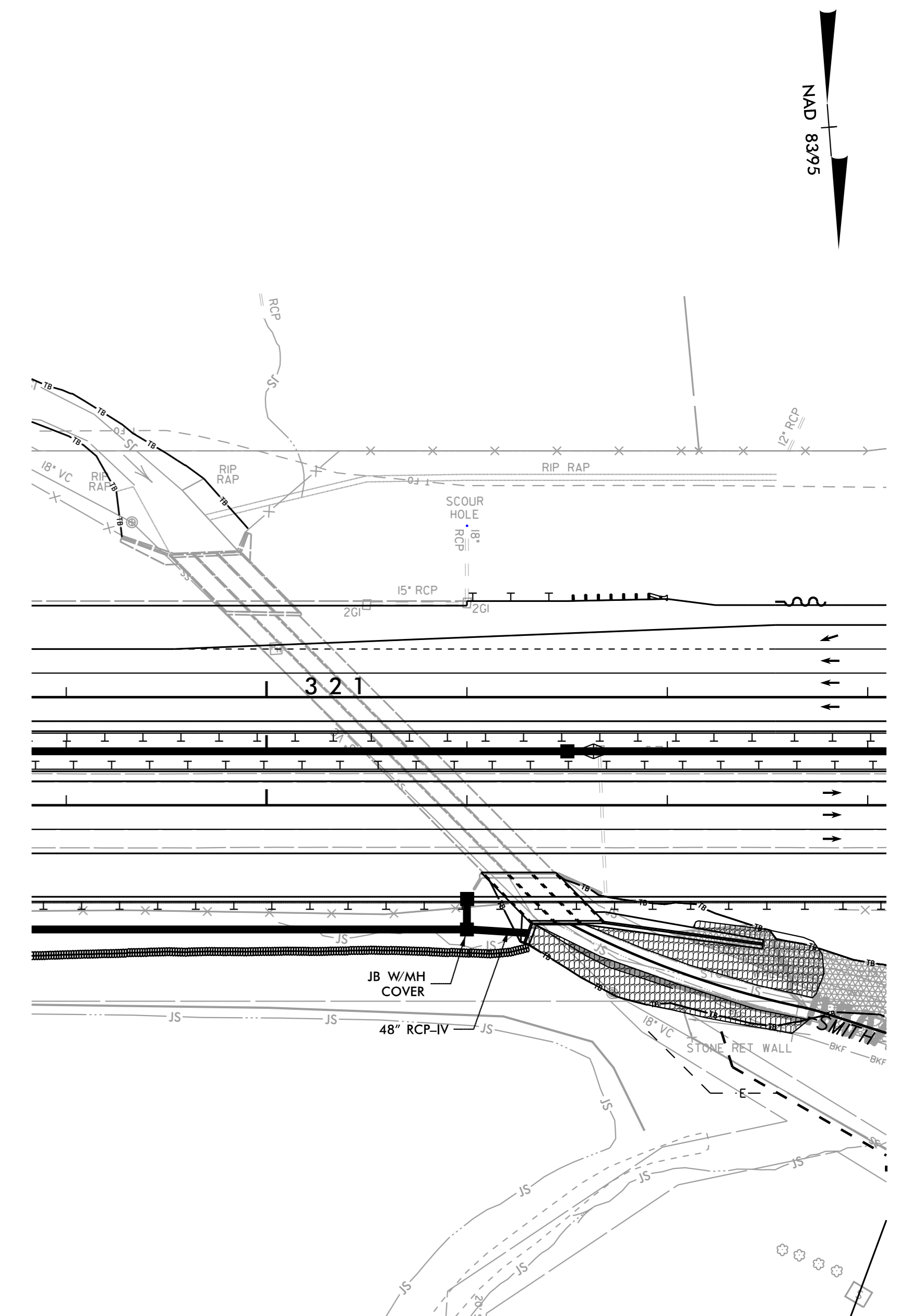
PHASE 2

- 5.) CONSTRUCT IMPERVIOUS DIKES 3 AND 4, DIVERTING FLOW THROUGH COMPLETED BARRELS 2 AND 3.
- 6.) CONSTRUCT PROPOSED 8' X 9' RCBC CULVERT EXTENSIONS FOR BARREL 1.
- 7.) REMOVE IMPERVIOUS DIKES 3 AND 4 AFTER DOWNSTREAM IMPROVEMENTS HAVE BEEN MADE, ALLOWING NORMAL FLOW THROUGH CULVERT.



PHASE 3

- 8.) REMOVE ANY REMAINING SPECIAL STILLING BASIN(S).
- 9.) CONSTRUCT OUTLET CHANNEL IMPROVEMENTS ALONGSIDE STREAM RELOCATION.
- 11.) COMPLETE ROADWAY AND DRAINAGE IMPROVEMENTS.



2/3/2020

8/17/99

CONSTRUCTION SEQUENCE:

- 1) PLACE ALL EROSION CONTROL STRUCTURES ACCORDING TO PLANS.
- 2) CONSTRUCT PROPOSED SMITH CREEK RELOCATION IN THE DRY. THIS INCLUDES ALL MATTING AND PLANTINGS AS APPROPRIATE PER PLANTING SEASON. IF PLANTING OCCURS DURING PLANTING SEASON, INSTALL PERMANENT PLANTINGS. OTHERWISE, DELAY FINAL PLANTING UNTIL PLANTING SEASON. VEGETATION SHOULD BE ESTABLISHED BEFORE PROCEEDING.
- 3) REMOVE ALL FINAL EROSION CONTROL STRUCTURES NORTH OF THE PROPOSED STREAM BEFORE DIVERTING FLOW.
- 4) DIVERT LIVE SMITH CREEK INTO PROPOSED STREAM RELOCATION. INSTALL CHANNEL PLUG AT UPSTREAM END OF THE RELOCATION.
- 5) EXTEND ROADWAY DRAINAGE NETWORK AND FILL IN SMITH CREEK AS NECESSARY TO COMPLETE ROADWAY EMBANKMENT AND GRADING.

NOTE: USE 1.0 FT WEIR HEIGHT FOR TEMPORARY ROCK SILT CHECKS TYPE - A THAT ARE NOT LABELED.

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

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 6

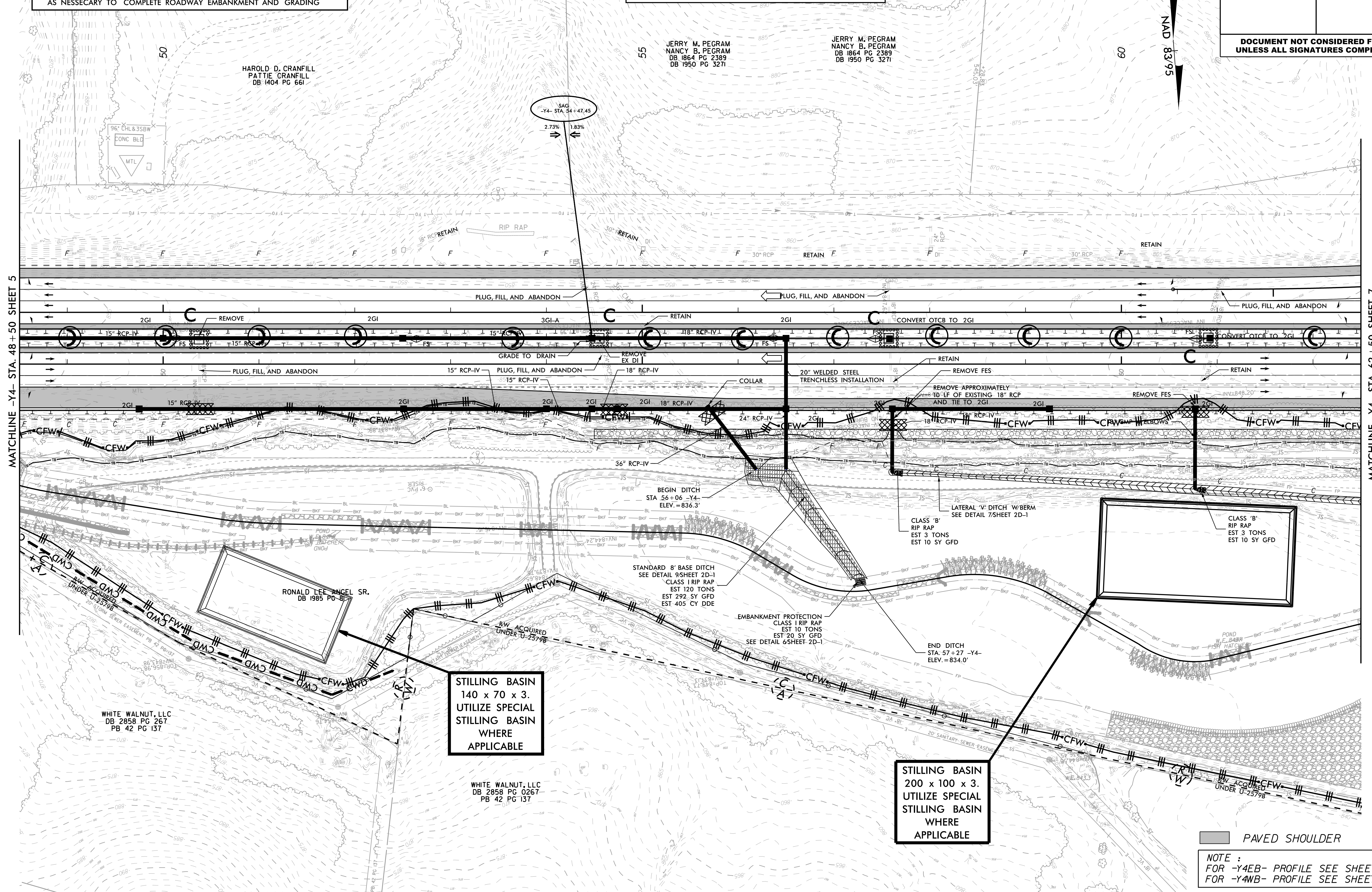
Kimley » Horn
 421 FAYETTEVILLE STREET, SUITE 600
 RALEIGH, NC 27601

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-6/CONST.6
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

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

NOTE: SEE SHEET EC-2D FOR PUMPING OPERATION DETAIL. USE WHERE APPLICABLE TO TIE PROPOSED CHANNEL TO SMITH CREEK.

NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.



REVISIONS



PAVED SHOULDER

NOTE :
 FOR -Y4EB- PROFILE SEE SHEET 9
 FOR -Y4WB- PROFILE SEE SHEET 11

PROJECT REFERENCE NO.	SHEET NO.
U-2579BA	EC-7/CONST.7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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

CONSTRUCTION SEQUENCE:
 1) PLACE ALL EROSION CONTROL STRUCTURES ACCORDING TO PLANS.
 2) CONSTRUCT PROPOSED SMITH CREEK RELOCATION IN THE DRY. THIS INCLUDES ALL MATINGS AND PLANTINGS AS APPROPRIATE PER PLANTING SEASON. IF PLANTING OCCURS DURING PLANTING SEASON, INSTALL PERMANENT PLANTINGS. OTHERWISE, DELAY FINAL PLANTING UNTIL PLANTING SEASON. VEGETATION SHOULD BE ESTABLISHED BEFORE PROCEEDING.
 3) REMOVE ALL FINAL EROSION CONTROL STRUCTURES NORTH OF THE PROPOSED STREAM BEFORE DIVERTING FLOW.
 4) DIVERT LIVE SMITH CREEK INTO PROPOSED STREAM RELOCATION. INSTALL CHANNEL PLUG AT UPSTREAM END OF THE RELOCATION.
 5) EXTEND ROADWAY DRAINAGE NETWORK AND FILL IN SMITH CREEK AS NECESSARY TO COMPLETE ROADWAY EMBANKMENT AND GRADING.

NOTE: USE 1.0 FT WEIR HEIGHT FOR TEMPORARY ROCK SILT CHECKS TYPE - A THAT ARE NOT LABELED.

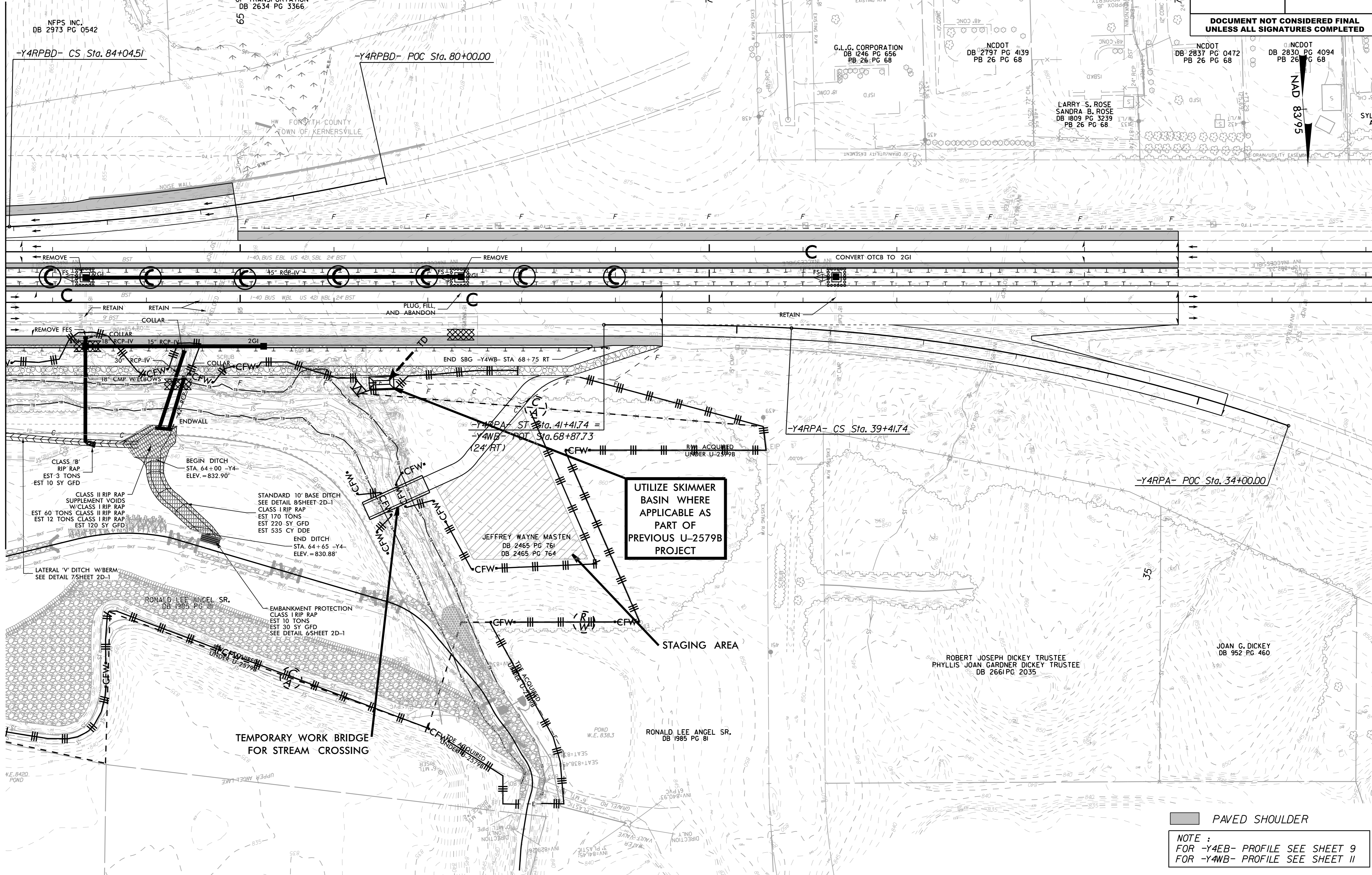
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

**CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7**

NOTE: SEE SHEET EC-2D FOR PUMPING OPERATION DETAIL. USE WHERE APPLICABLE TO TIE PROPOSED CHANNEL TO SMITH CREEK.

NOTE: UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

MATCHLINE -Y4- STA. 62+50 SHEET 6



PAVED SHOULDER

NOTE :
 FOR -Y4EB- PROFILE SEE SHEET 9
 FOR -Y4WB- PROFILE SEE SHEET 11

REVISIONS

5/14/99

2/5/2020

5/14/99

CONSTRUCTION SEQUENCE:

- 1) PLACE ALL EROSION CONTROL STRUCTURES ACCORDING TO PLANS.
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- 5) EXTEND ROADWAY DRAINAGE NETWORK AND FILL IN SMITH CREEK AS NECESSARY TO COMPLETE ROADWAY EMBANKMENT AND GRADING.

NOTE:
USE 1.0 FT WEIR HEIGHT FOR TEMPORARY ROCK SILT CHECKS TYPE - A THAT ARE NOT LABELED.

NOTE:
SEE SHEET EC-2D FOR PUMPING OPERATION DETAIL. USE WHERE APPLICABLE TO TIE PROPOSED CHANNEL TO SMITH CREEK.

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4

PROJECT REFERENCE NO. U-2579BA		SHEET NO. EC-8/CONST.4	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
Kimley » Horn 421 FAYETTEVILLE STREET, SUITE 600 RALEIGH, NC 27601 <small>RIGHT-OF-WAY REV. CONST. REV.</small>			
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			

NAD
83.95

ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829

ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829

ROSS D. WALL
PATRICIA O. WALL
DB 2188 PG 355

ROSS D. WALL
PATRICIA O. WALL
DB 2188 PG 355

TOWN OF KERNERSVILLE
DB 2065 PG 1771

THOMAS W. PRINCE
ARNOLD G. KING
DB 2056 PG 1319

PAGE AND ASSOCIATES, INC.
DB 2704 PG 784

DON ALLEN HARRIS
LEXA LEIGH HARRIS
DB 3084 PG 4432

DENNIS H. PAYNE, JR.
DAWN A. PAYNE
DB 2797 PG 2978

WHITE WALNUT, LLC
DB 3078 PG 0373

DENNIS H. PAYNE, JR.
DAWN A. PAYNE
DB 2797 PG 2978

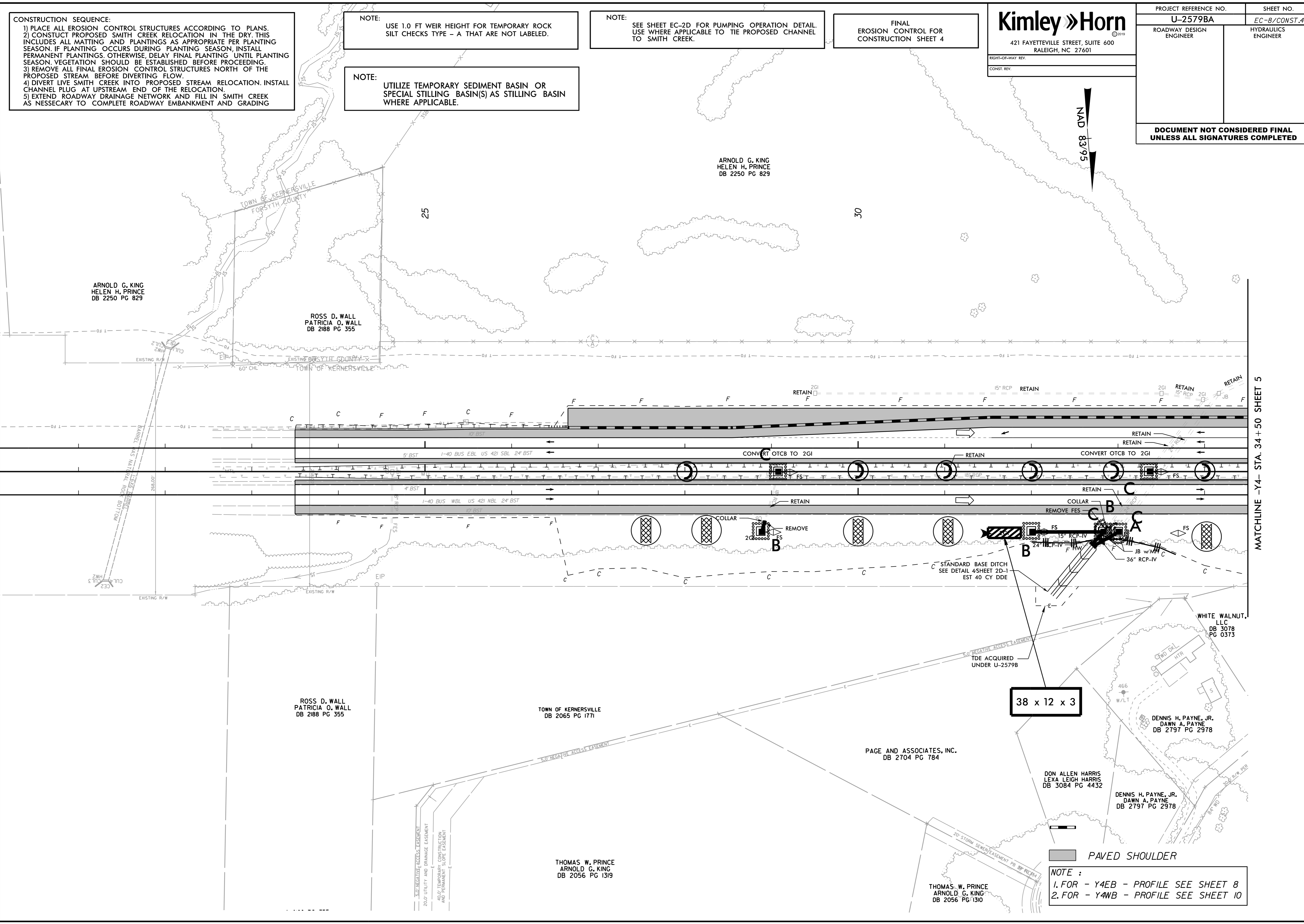
THOMAS W. PRINCE
ARNOLD G. KING
DB 2056 PG 1310

NOTE :
1. FOR - Y4EB - PROFILE SEE SHEET 8
2. FOR - Y4WB - PROFILE SEE SHEET 10

REVISIONS

MATCHLINE -Y4- STA. 34+50 SHEET 5

2/3/2020



8/17/99

CONSTRUCTION SEQUENCE:

- 1) PLACE ALL EROSION CONTROL STRUCTURES ACCORDING TO PLANS.
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- 4) DIVERT LIVE SMITH CREEK INTO PROPOSED STREAM RELOCATION. INSTALL CHANNEL PLUG AT UPSTREAM END OF THE RELOCATION.
- 5) EXTEND ROADWAY DRAINAGE NETWORK AND FILL IN SMITH CREEK AS NECESSARY TO COMPLETE ROADWAY EMBANKMENT AND GRADING

NOTE:
USE 1.0 FT WEIR HEIGHT FOR TEMPORARY ROCK SILT CHECKS TYPE - A THAT ARE NOT LABELED.

Place Matting for Erosion Control on Slope as Work Allows. Sta. 40+50 to Sta. 47+50

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 5

Kimley » Horn
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

RIGHT-OF-WAY REV.
CONST. REV.

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-9/CONST.5
R/W SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

HAROLD DAVID HOPKINS, JR.
DB 319 PG 1159

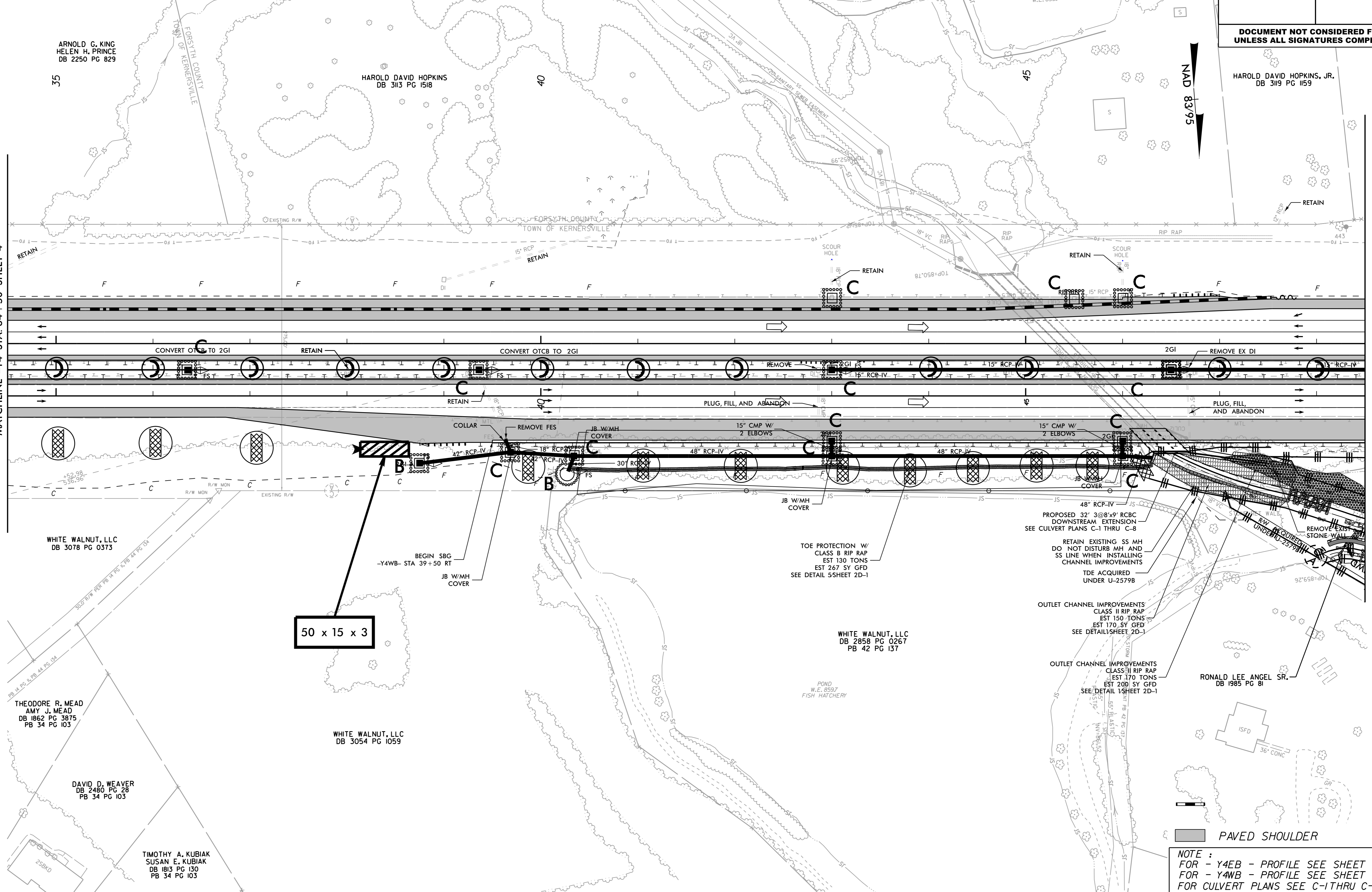
ARNOLD G. KING
HELEN H. PRINCE
DB 2250 PG 829

HAROLD DAVID HOPKINS
DB 313 PG 1518

MATCHLINE -Y4 STA. 34+50 SHEET 4

MATCHLINE -Y4 STA. 48+50 SHEET 6

REVISIONS



WHITE WALNUT, LLC
DB 3078 PG 0373

THEODORE R. MEAD
AMY J. MEAD
DB 1862 PG 3875
PB 34 PG 103

DAVID D. WEAVER
DB 2480 PG 28
PB 34 PG 103

TIMOTHY A. KUBIAK
SUSAN E. KUBIAK
DB 1813 PG 130
PB 34 PG 103

WHITE WALNUT, LLC
DB 3054 PG 1059

WHITE WALNUT, LLC
DB 2858 PG 0267
PB 42 PG 137

RONALD LEE ANGEL SR.
DB 1985 PG 81

50 x 15 x 3

PAVED SHOULDER

NOTE :
FOR - Y4EB - PROFILE SEE SHEET 8
FOR - Y4MB - PROFILE SEE SHEET 10
FOR CULVERT PLANS SEE C-1 THRU C-8

8/17/99

CONSTRUCTION SEQUENCE:

- 1) PLACE ALL EROSION CONTROL STRUCTURES ACCORDING TO PLANS.
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- 5) EXTEND ROADWAY DRAINAGE NETWORK AND FILL IN SMITH CREEK AS NECESSARY TO COMPLETE ROADWAY EMBANKMENT AND GRADING.

NOTE:
SEE SHEET EC-2D FOR PUMPING OPERATION DETAIL. USE WHERE APPLICABLE TO TIE PROPOSED CHANNEL TO SMITH CREEK.

NOTE:
UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.

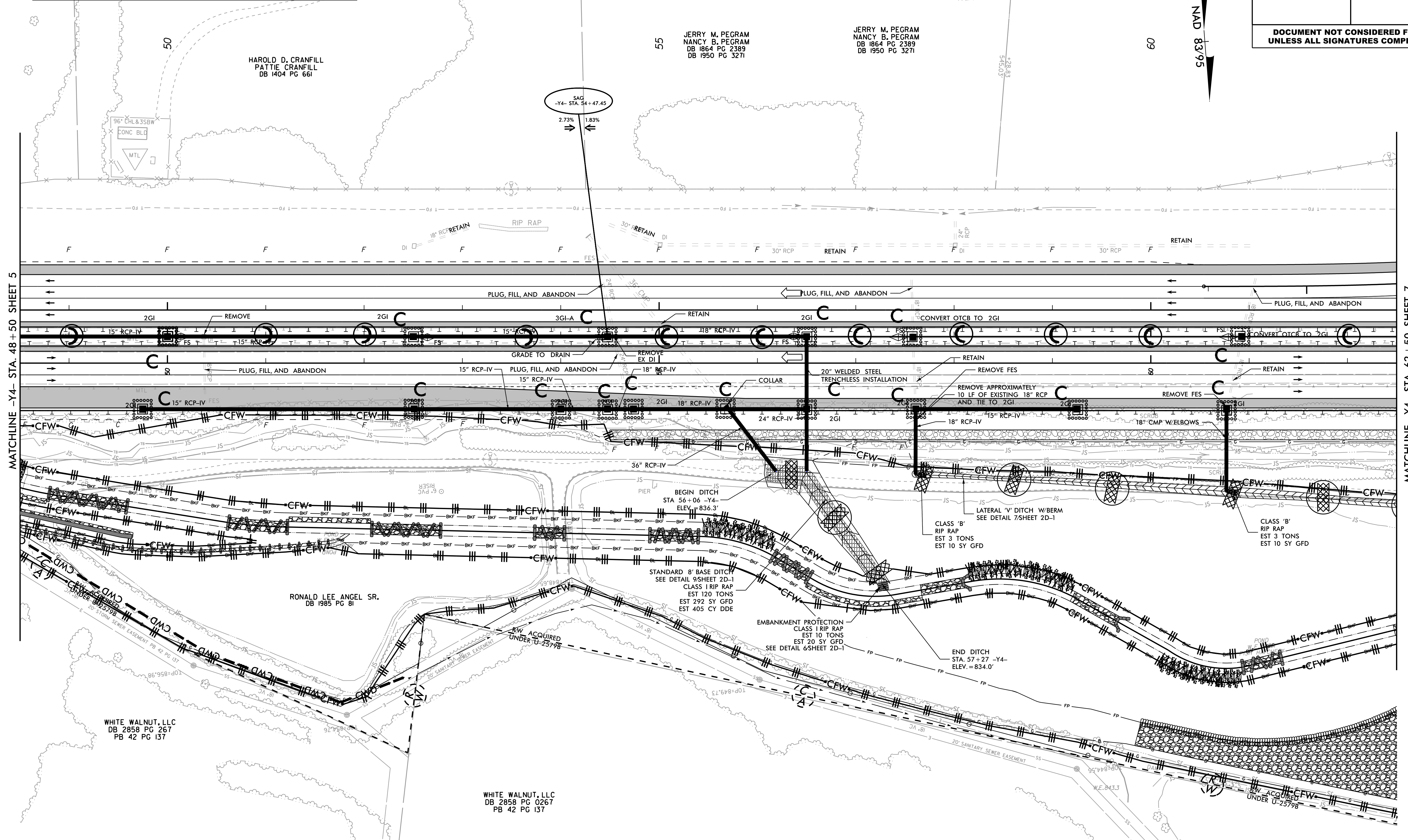
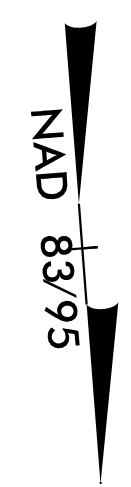
INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

NOTE:
USE 1.0 FT WEIR HEIGHT FOR TEMPORARY ROCK SILT CHECKS TYPE - A THAT ARE NOT LABELED.

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 6

Kimley » Horn
421 FAYETTEVILLE STREET, SUITE 600
RALEIGH, NC 27601

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-10/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	



REVISIONS

MATCHLINE -Y4- STA. 48+50 SHEET 5

MATCHLINE -Y4- STA. 62+50 SHEET 7

WHITE WALNUT, LLC
DB 2858 PG 267
PB 42 PG 137

RONALD LEE ANGEL SR.
DB 1985 PG 81

WHITE WALNUT, LLC
DB 2858 PG 0267
PB 42 PG 137

PAVED SHOULDER

NOTE :
FOR -Y4EB- PROFILE SEE SHEET 9
FOR -Y4WB- PROFILE SEE SHEET 11

PROJECT REFERENCE NO. U-2579BA	SHEET NO. EC-II/CONST.7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	

CONSTRUCTION SEQUENCE:
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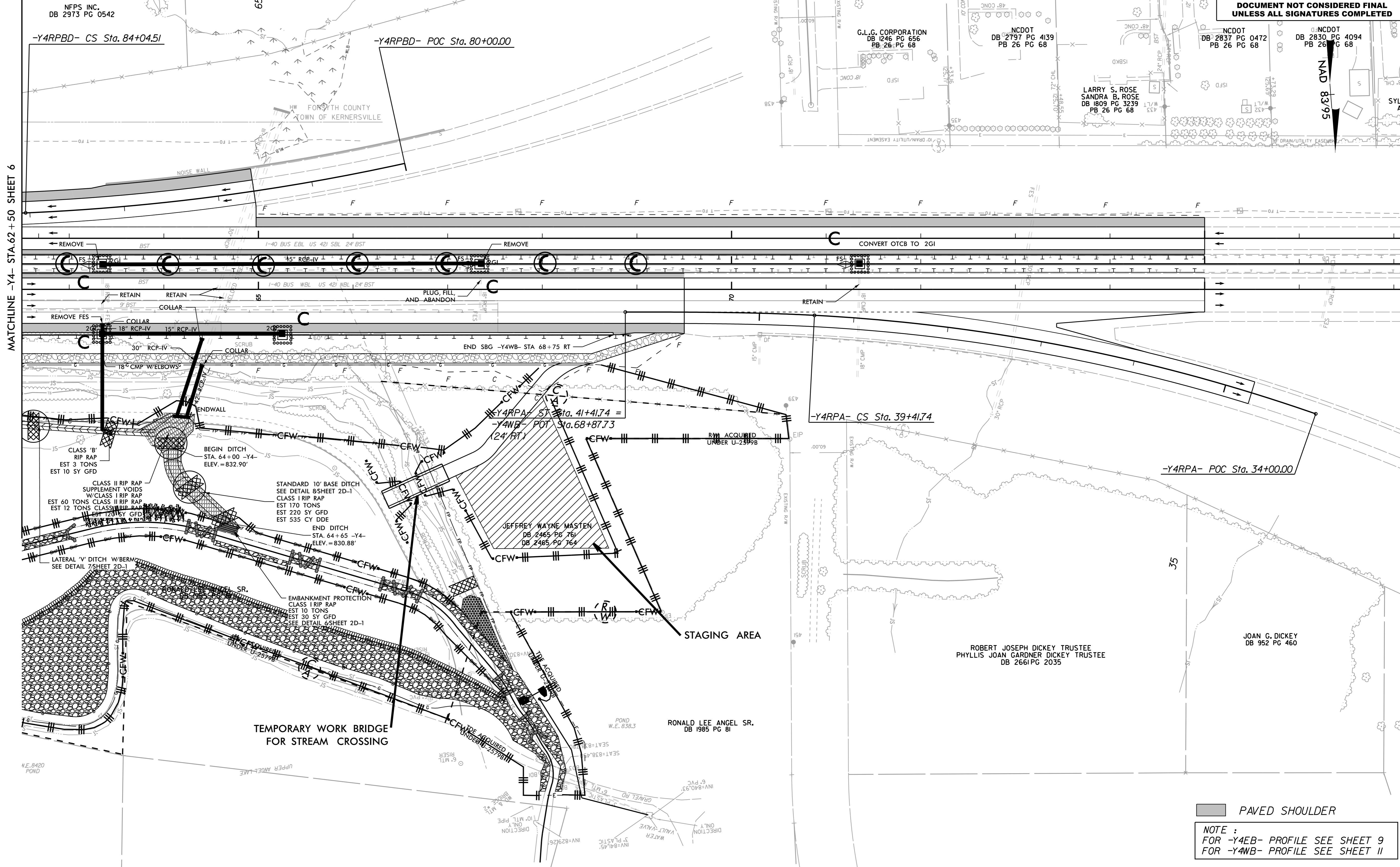
NOTE:
 USE 1.0 FT WEIR HEIGHT FOR TEMPORARY ROCK SILT CHECKS TYPE - A THAT ARE NOT LABELED.

INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 7

NOTE:
 SEE SHEET EC-2D FOR PUMPING OPERATION DETAIL. USE WHERE APPLICABLE TO TIE PROPOSED CHANNEL TO SMITH CREEK.

NOTE:
 UTILIZE TEMPORARY SEDIMENT BASIN OR SPECIAL STILLING BASIN(S) AS STILLING BASIN WHERE APPLICABLE.



MATCHLINE -Y4- STA. 62+50 SHEET 6

REVISIONS

PAVED SHOULDER
NOTE :
 FOR -Y4EB- PROFILE SEE SHEET 9
 FOR -Y4WB- PROFILE SEE SHEET 11

NOTE:
 THE PROFILE BELOW REPRESENTS AN EXAMPLE OF A TEMPORARY ACCESS TO THE SMITH CREEK STREAM RELOCATION SITE. THE TEMPORARY ACCESS MUST SPAN THE CREEK FROM A MINIMUM TOP OF BANK TO TOP OF BANK. THE CONTRACTOR MUST SUBMIT A DESIGN FOR THE TEMPORARY ACCESS TO BE APPROVED BY THE ENGINEER.

REVISIONS

