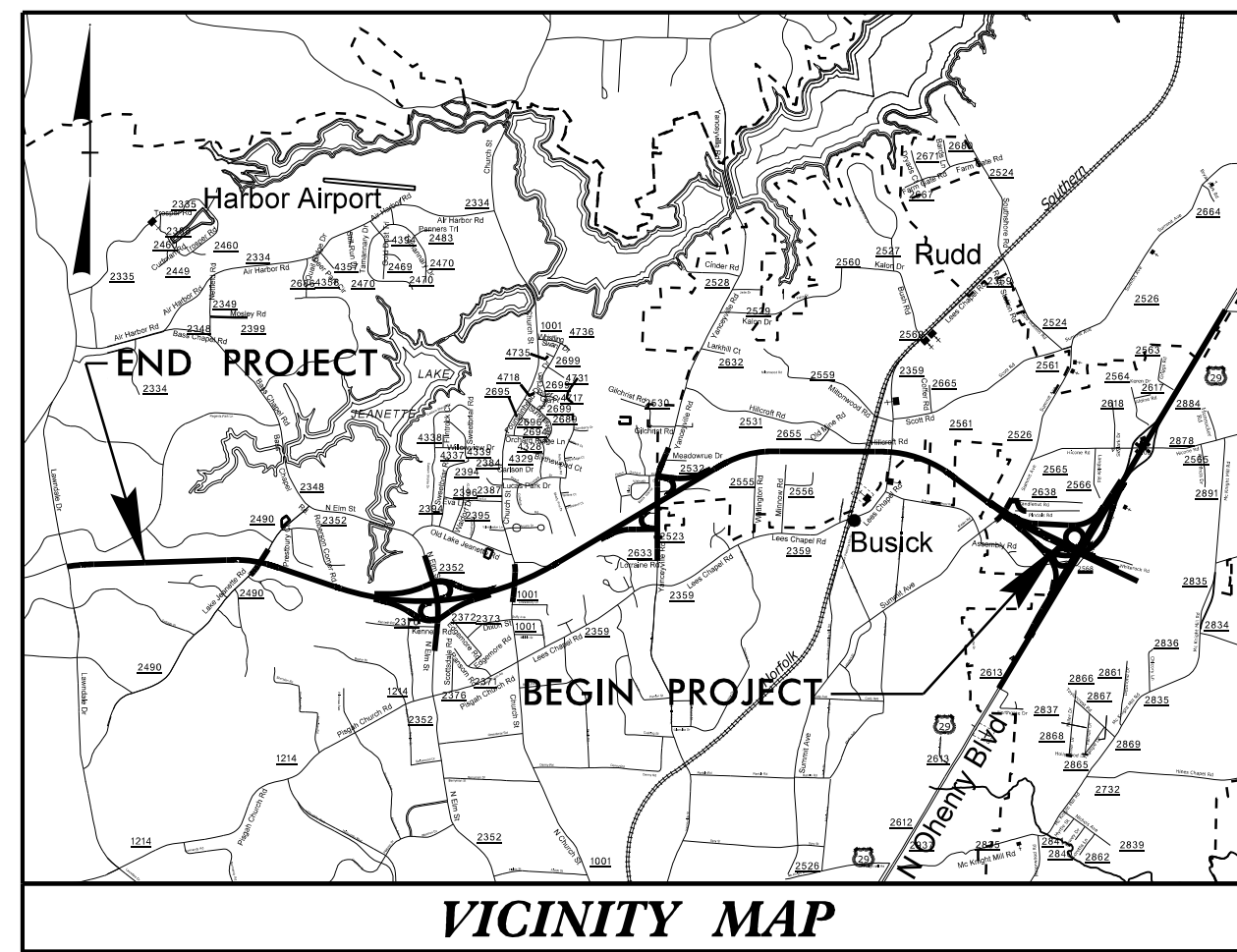


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TIP PROJECT: U-2525C

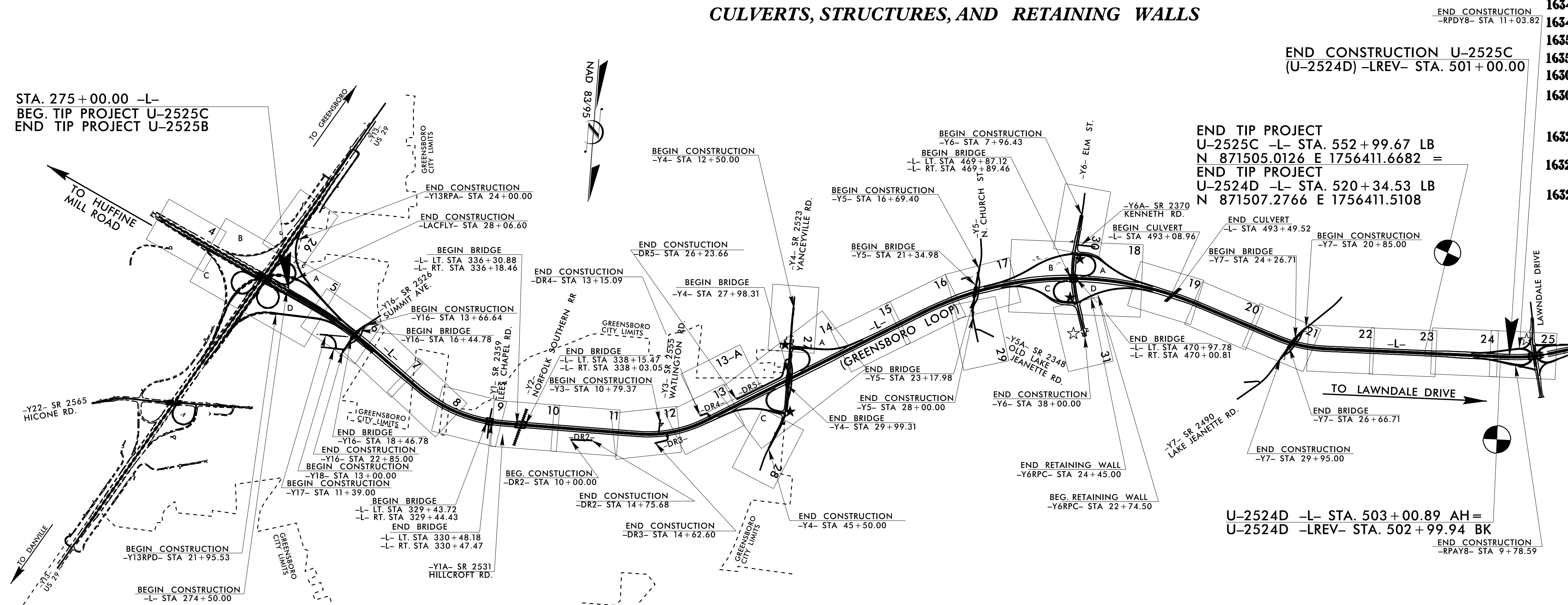
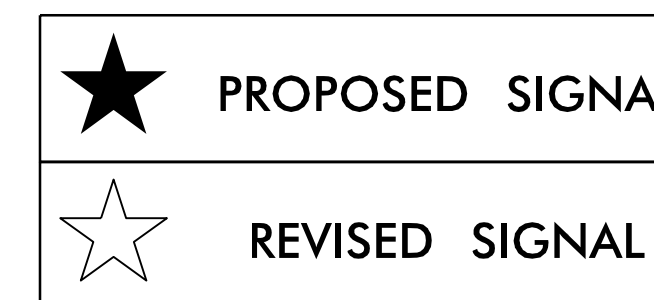


STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

GUILFORD COUNTY

LOCATION: GREENSBORO LOOP FROM US 29 NORTH OF GREENSBORO TO EAST OF LAWNDALE DRIVE

TYPE OF WORK: GRADING, DRAINAGE, PAVING, SIGNALS, CULVERTS, STRUCTURES, AND RETAINING WALLS



A PORTION OF THIS PROJECT IS WITHIN THE MUNICIPAL BOUNDARIES OF THE CITY OF GREENSBORO. THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-2525C	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

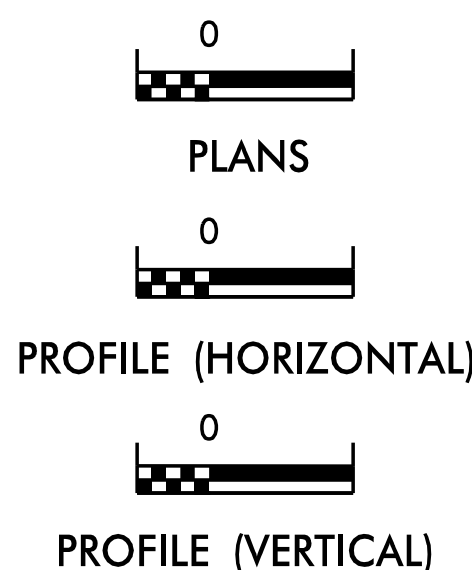
Sta.	Description	Symbol
1630.03	Temporary Silt Ditch	---
1630.05	Temporary Diversion	→
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	△
1622.01	Temporary Berms and Slope Drains	—
1630.02	Silt Basin Type B	▭
1633.01	Temporary Rock Silt Check Type-A	⊠
	Temporary Rock Silt Check Type-A 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	⊠
1632.02	Type B	⊠
1632.03	Type C	⊠
	Skimmer Basin	⊠
	Tiered Skimmer Basin	⊠
	Infiltration Basin	⊠

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

THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.

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

GRAPHIC SCALE



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 1, 2016 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES DIVISION OF WATER RESOURCES.

Prepared In the Office of:
WETHERILL ENGINEERING
Prepared for the North Carolina Department of Transportation in the Office of:
1223 JONES FRANKLIN ROAD
Raleigh, N.C. 27606
License No. E-0377
Bus: 919 851 8077
Fax: 919 851 8107
Designed by:
Andrew Hollen 3490
NAME LEVEL III CERTIFICATION NO.

Reviewed In the Office of:
ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611
2018 STANDARD SPECIFICATIONS
Reviewed by:
Jennifer Parish

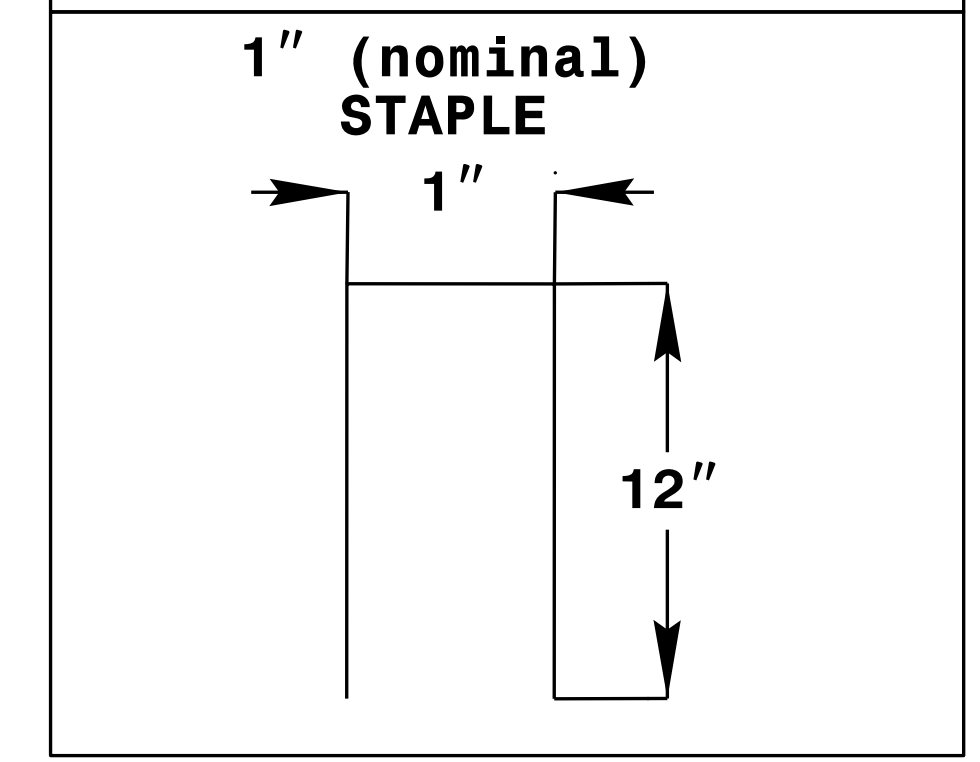
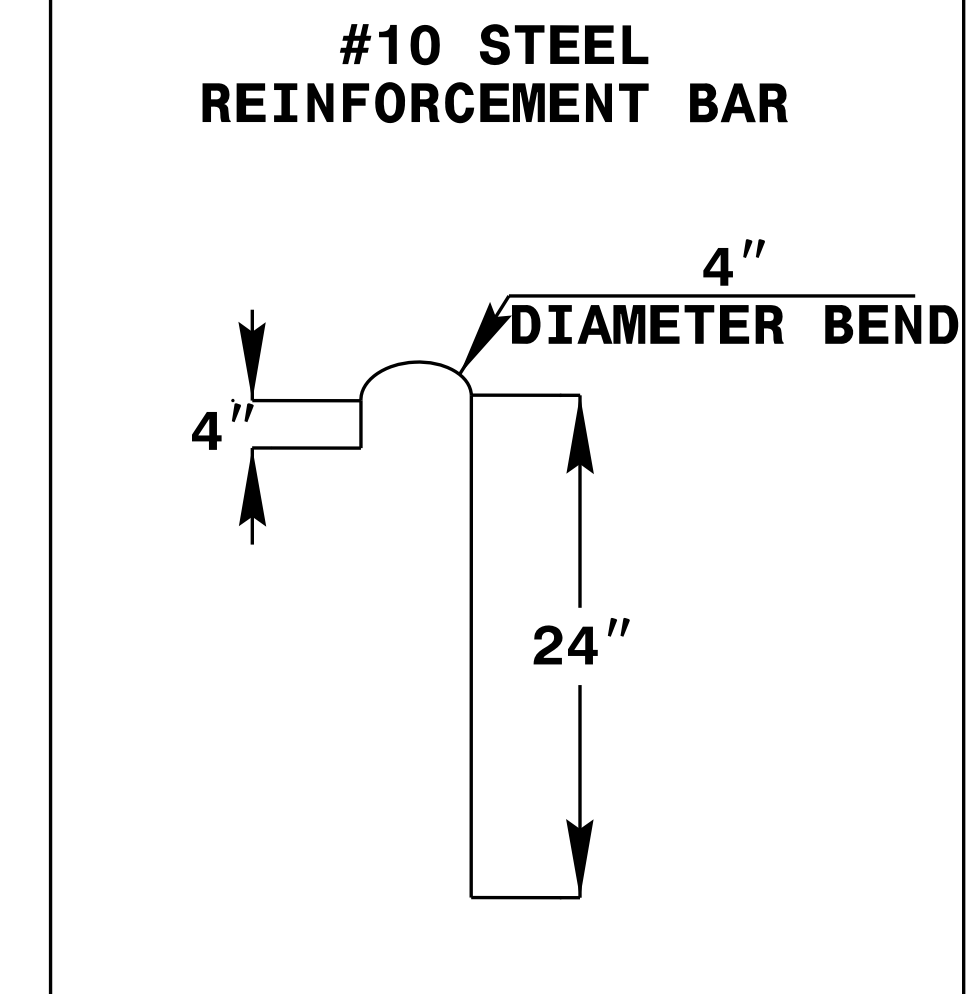
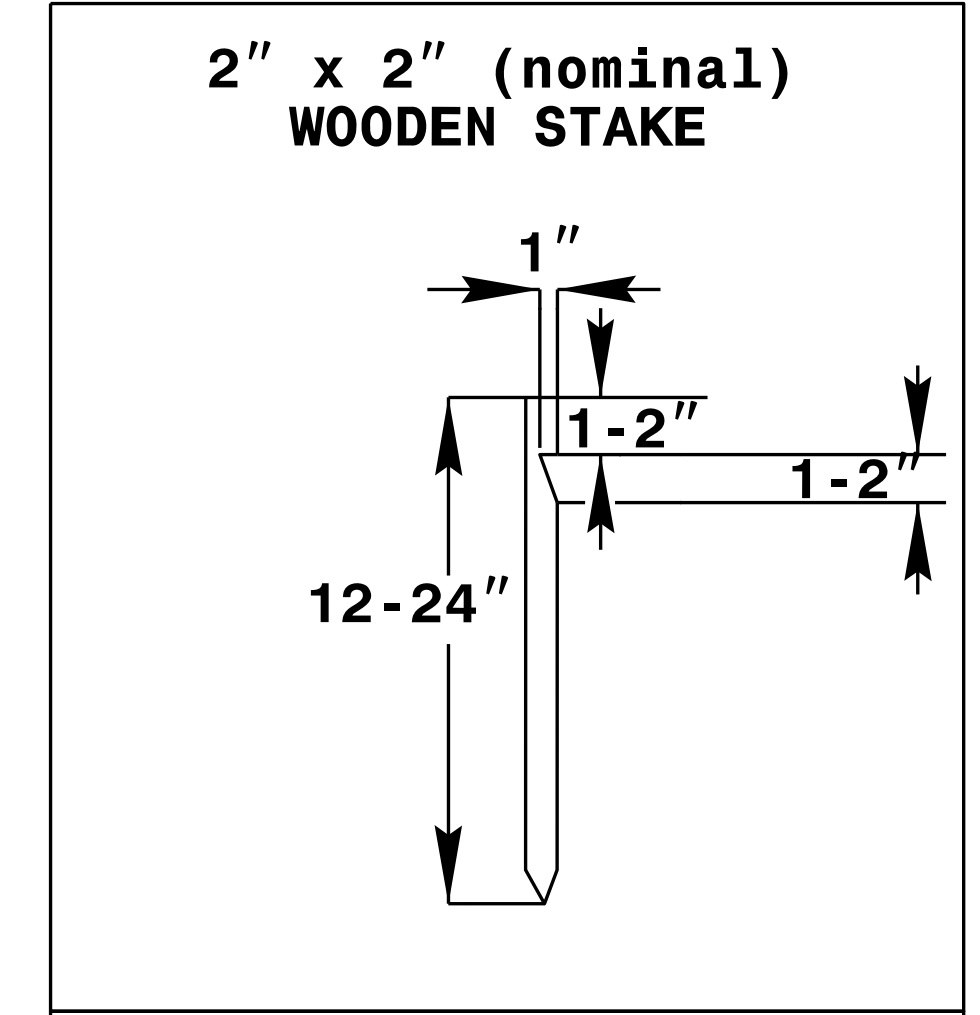
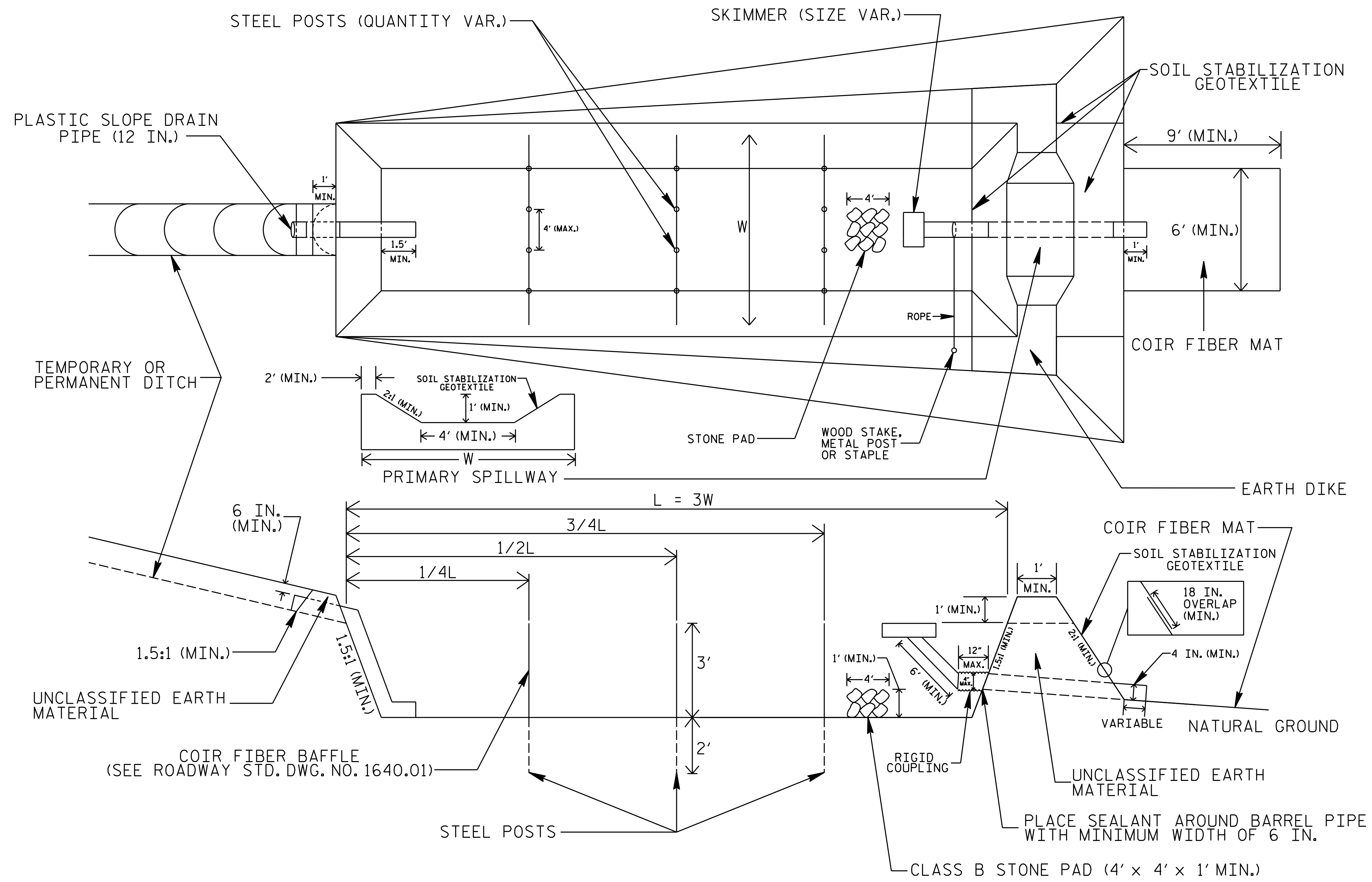
Roadway Standard Drawings

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. <i>U-2525C</i>	SHEET NO. <i>EC-2</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SKIMMER BASIN WITH BAFFLES DETAIL



COIR FIBER MAT ANCHOR OPTIONS

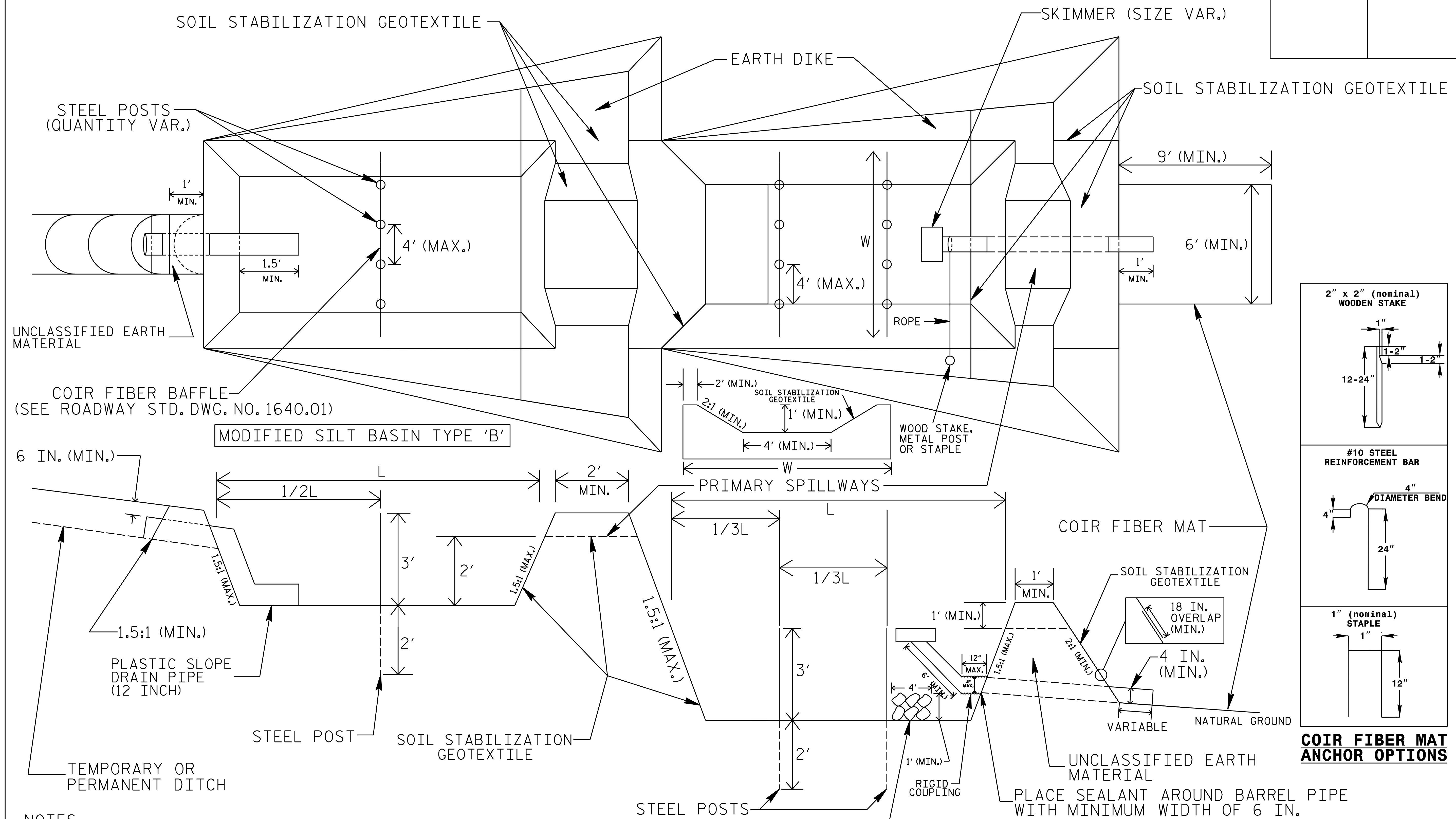
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE OR TARP AS DIRECTED.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAY SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

NOT TO SCALE

TIERED SKIMMER BASIN DETAIL

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-2A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



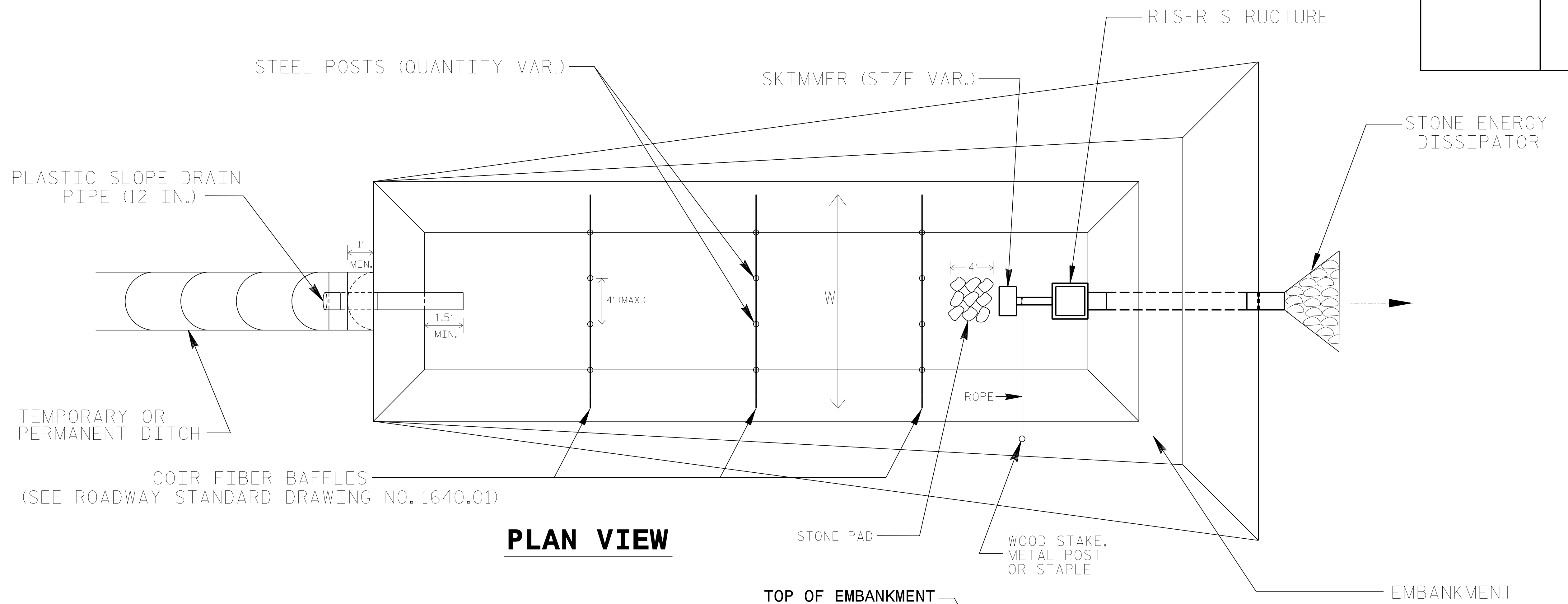
NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES OF BASINS.
2. LIMIT HEIGHT OF EARTH DIKES TO 5 FT.
3. ADDITIONAL MODIFIED SILT BASINS TYPE 'B' MAY BE NEEDED DEPENDING ON SLOPE.
4. FOR BASIN DEPTHS OF 3FT., THE MINIMUM BASIN WIDTHS SHALL BE 9 FT.
5. DETERMINE PRIMARY SPILLWAY WEIR LENGTHS (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO UPPER BASIN.
6. SOIL STABILIZATION GEOTEXTILE FOR PRIMARY SPILLWAYS SHALL BE ONE CONTINUOUS PIECE OF MATERIAL OR OVERLAPPED 18 IN. (MIN.).

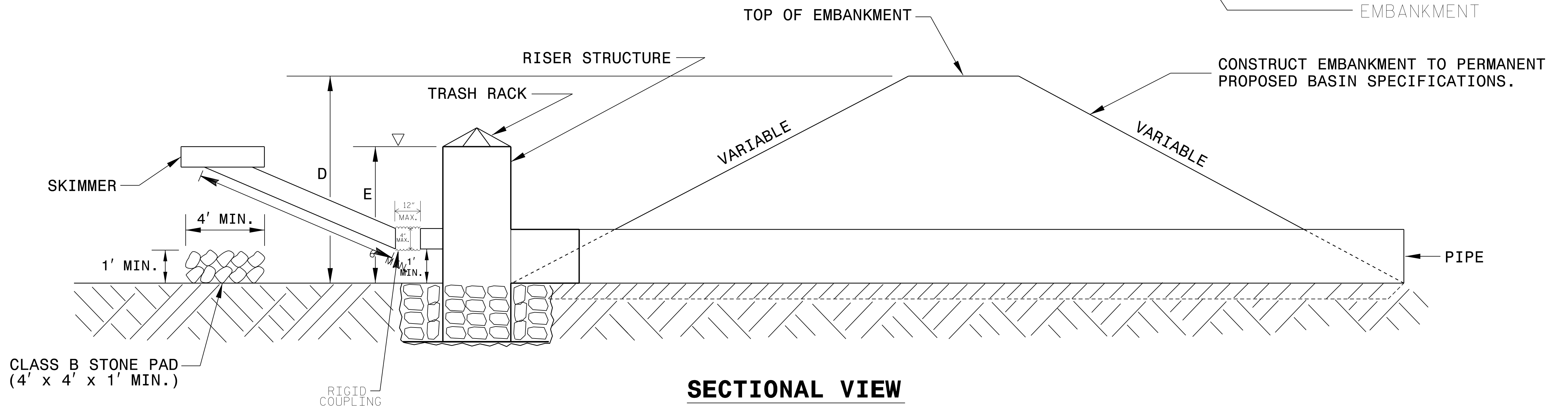
NOT TO SCALE

PROJECT REFERENCE NO. <i>U-2525C</i>	SHEET NO. <i>EC-2B</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

STORMWATER BASIN WITH SKIMMER



PLAN VIEW



SECTIONAL VIEW

NOTES

1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
2. INSTALL A MINIMUM OF 3 COIR FIBER BAFFLES IN ACCORDANCE WITH ROADWAY STD. DRAWING 1640.01.
3. INSTALL SKIMMER AND COUPLING TO RISER STRUCTURE OR DIRECTLY INTO EMBANKMENT 1 FT. FROM BOTTOM OF BASIN.
4. THE ARM PIPE SHALL HAVE A MINIMUM LENGTH OF 6 FT. BETWEEN THE SKIMMER AND COUPLING.
5. PLASTIC SLOPE DRAIN PIPE AT INLET OF BASIN MAY BE REPLACED BY FILTRATION GEOTEXTILE AS DIRECTED.
6. THE DIFFERENCE BETWEEN LENGTHS "D" AND "E" REPRESENT THE FREEBOARD AND SHOULD BE 1 FT. MINIMUM.

NOT TO SCALE

PROJECT REFERENCE NO. <i>U-2525C</i>	SHEET NO. <i>EC-2C</i>
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.

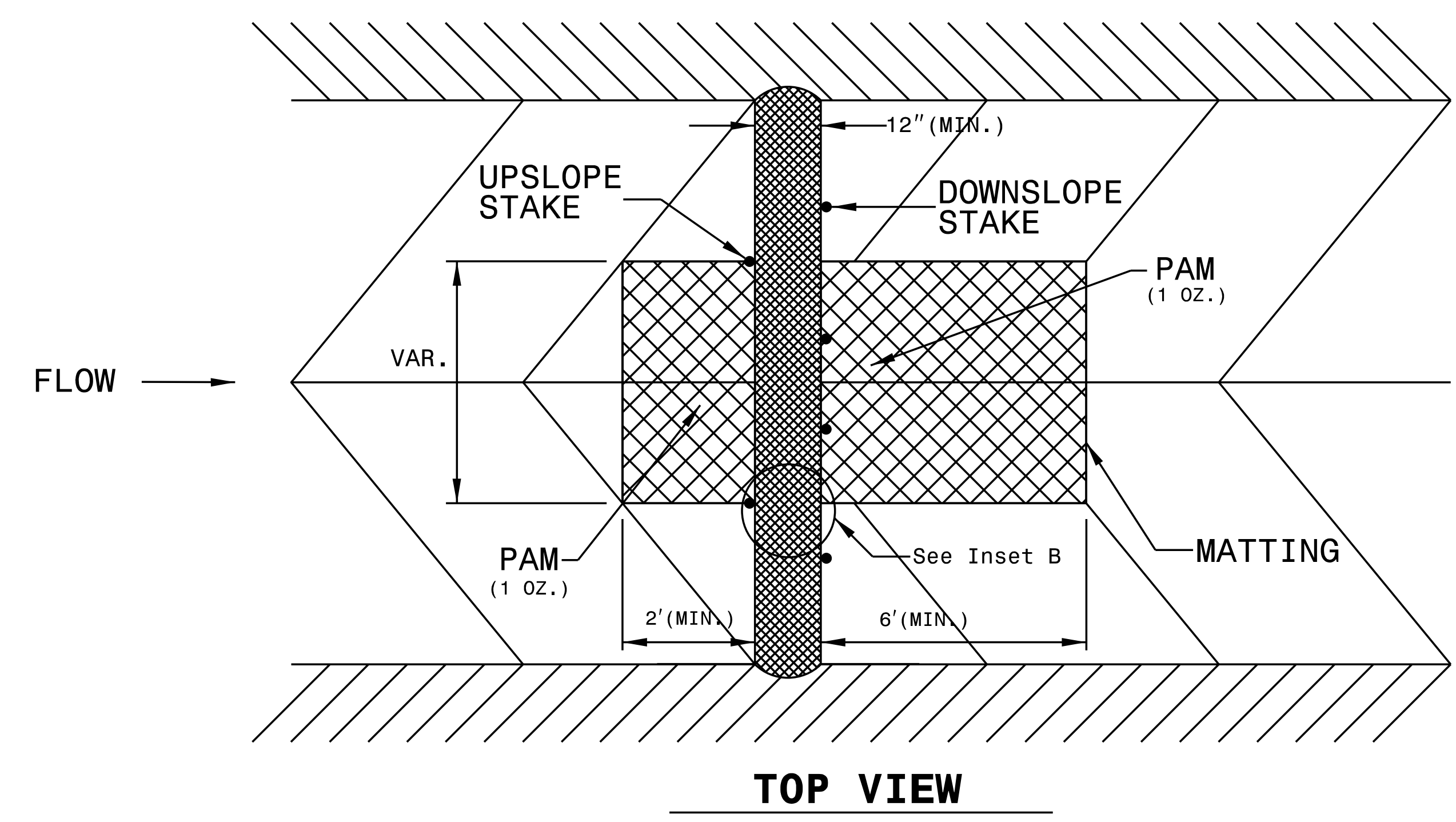
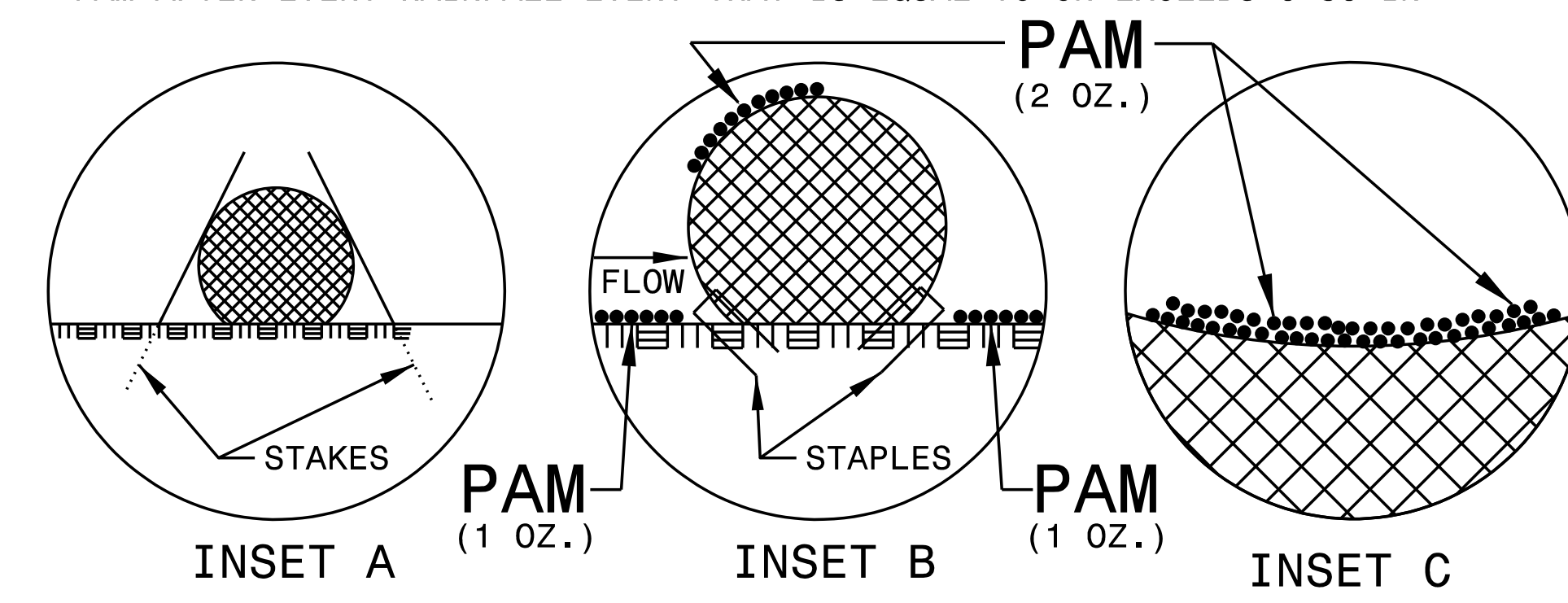
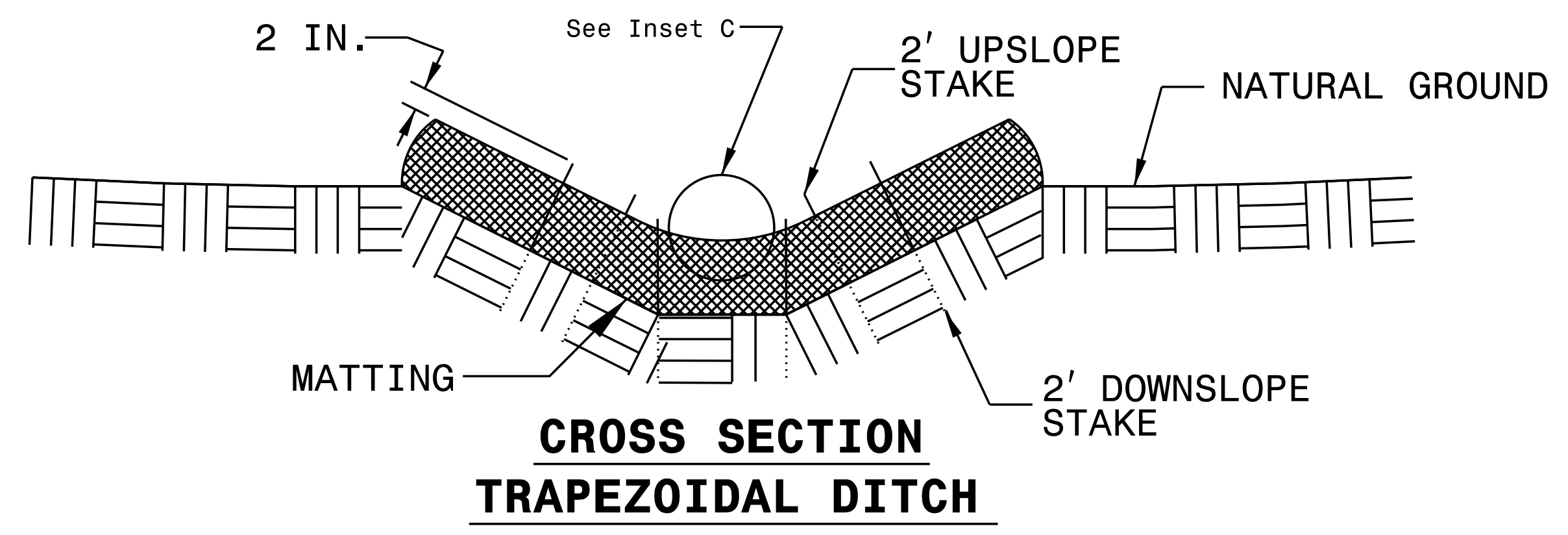
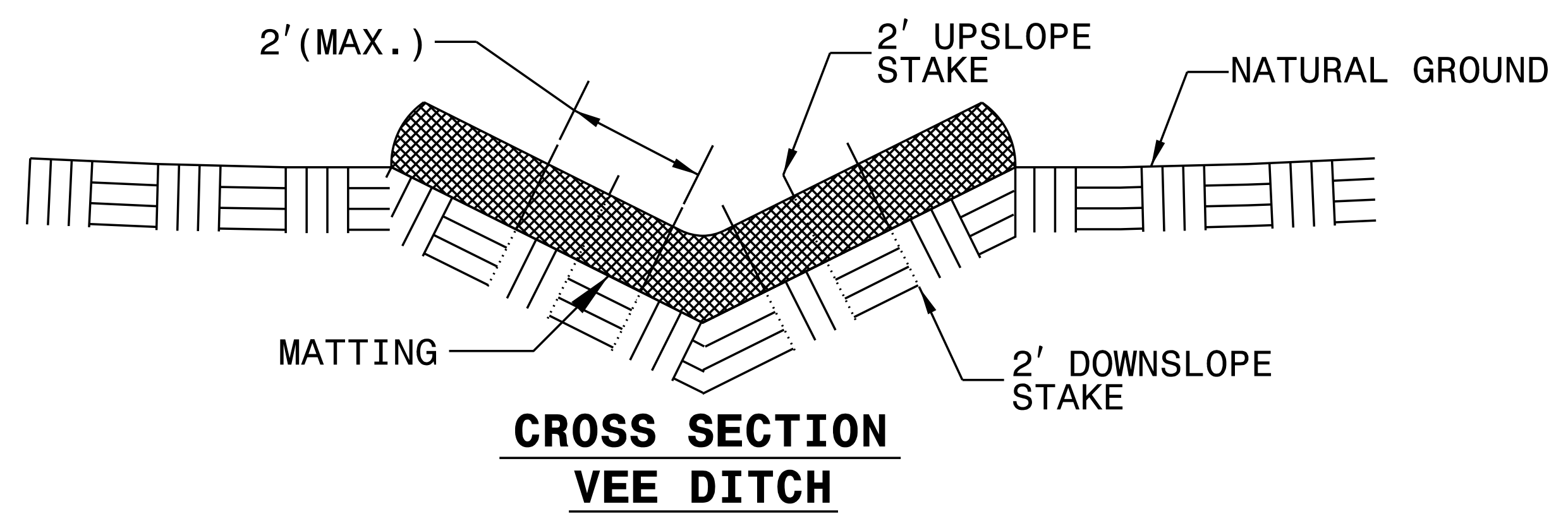
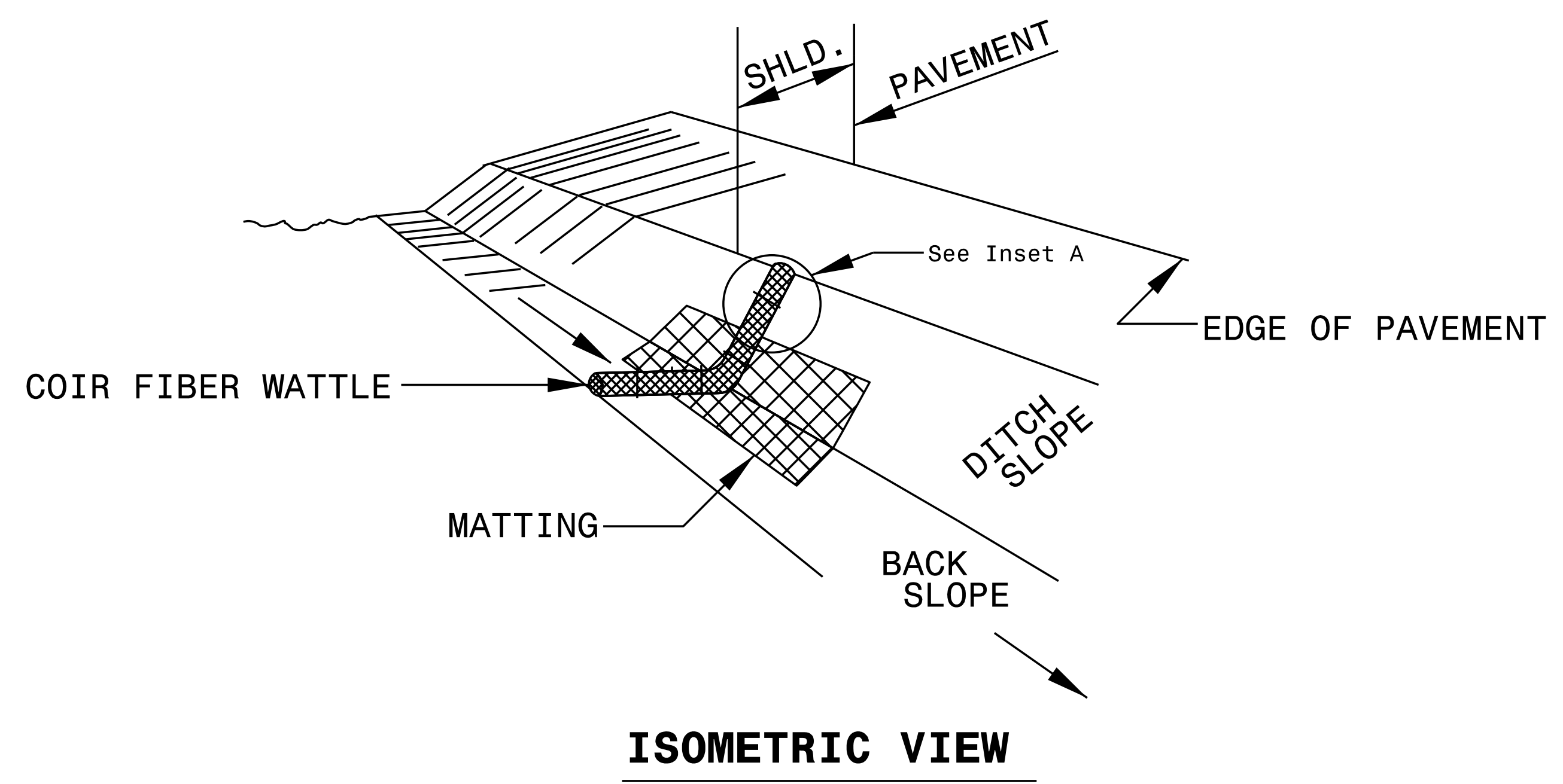
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

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.

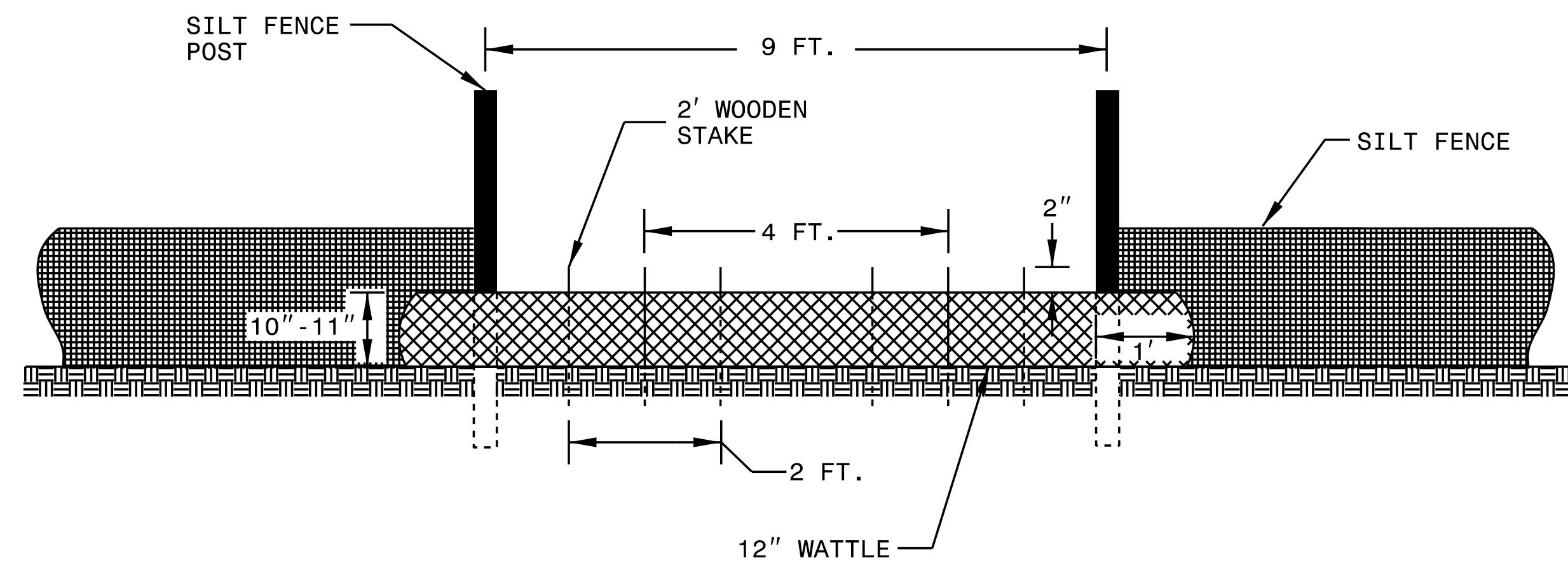
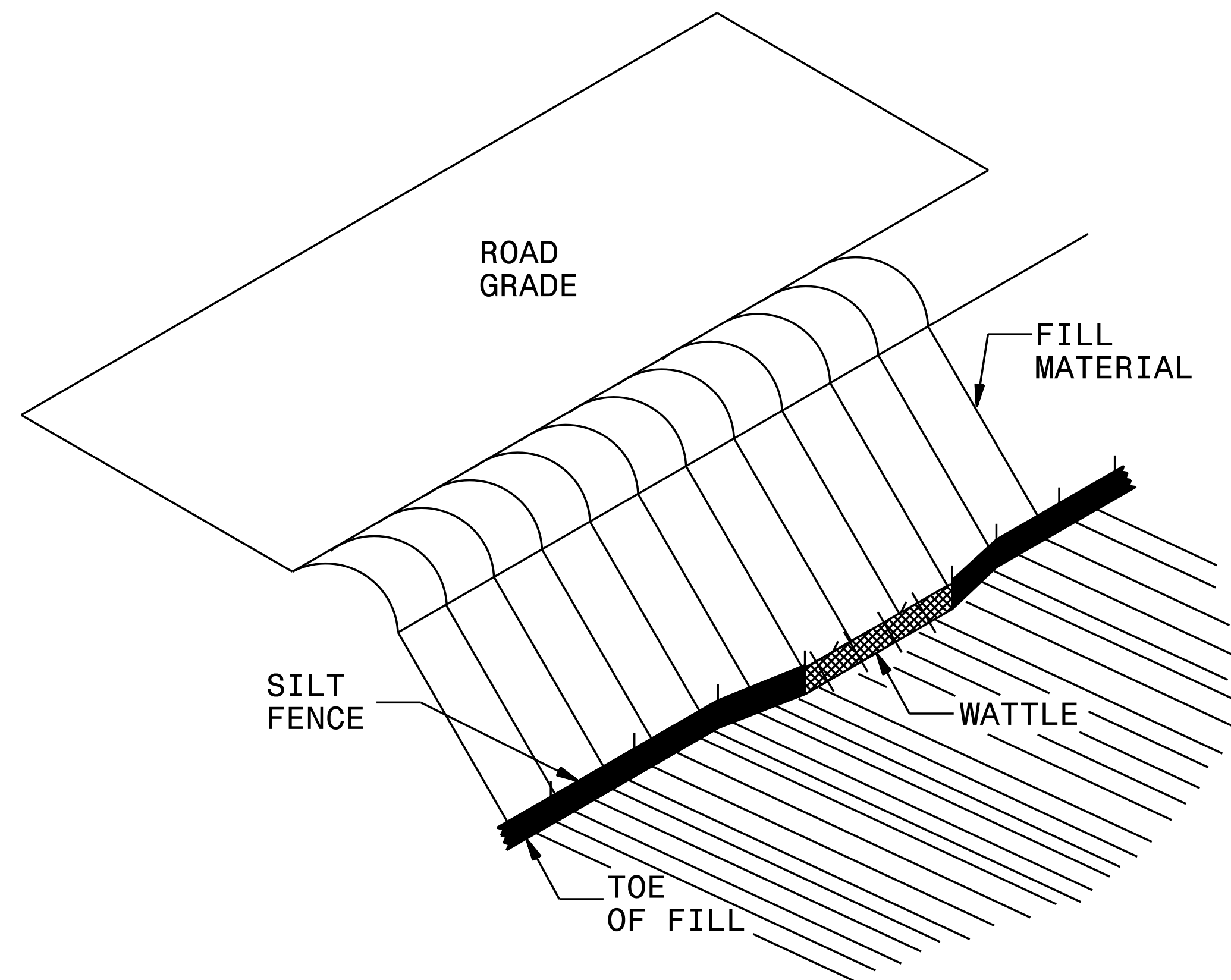
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.

INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON 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

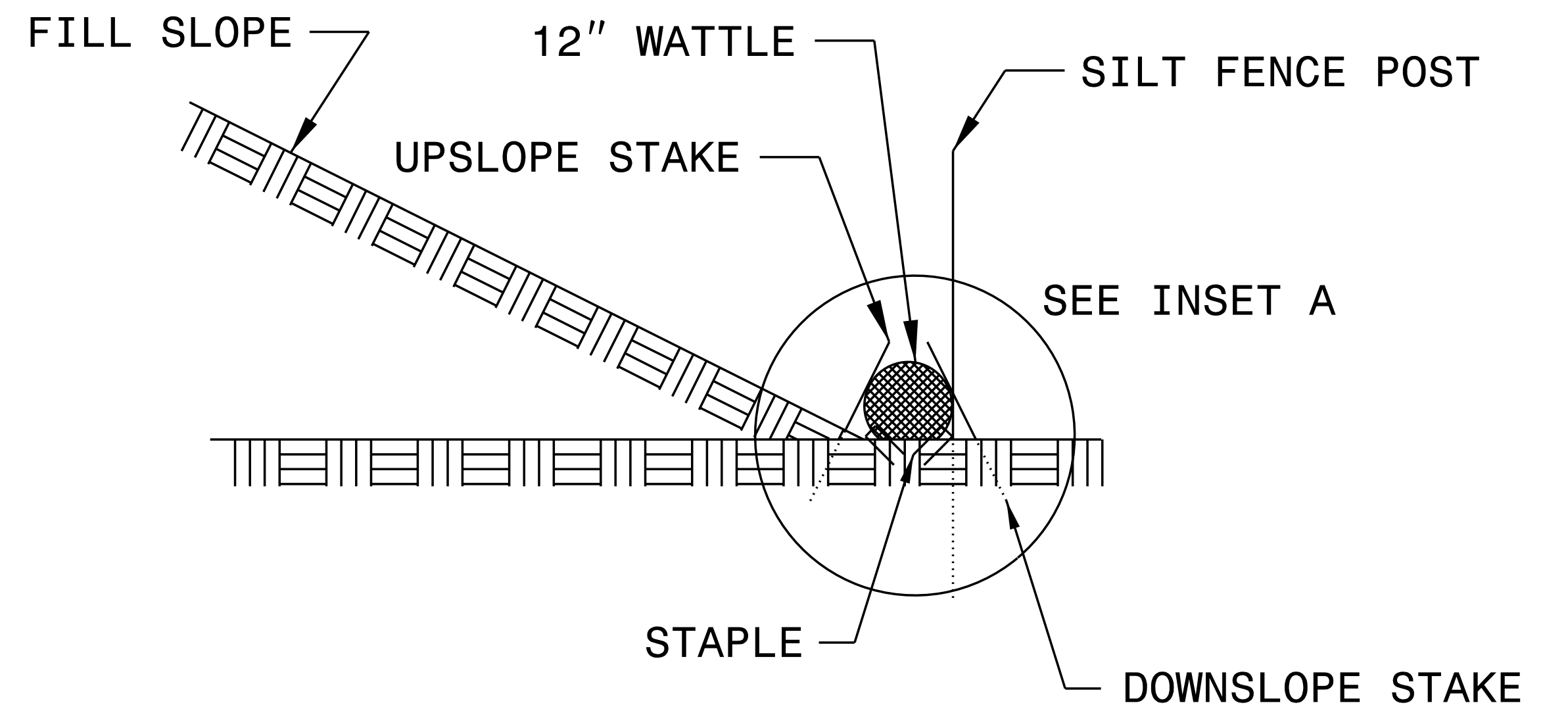
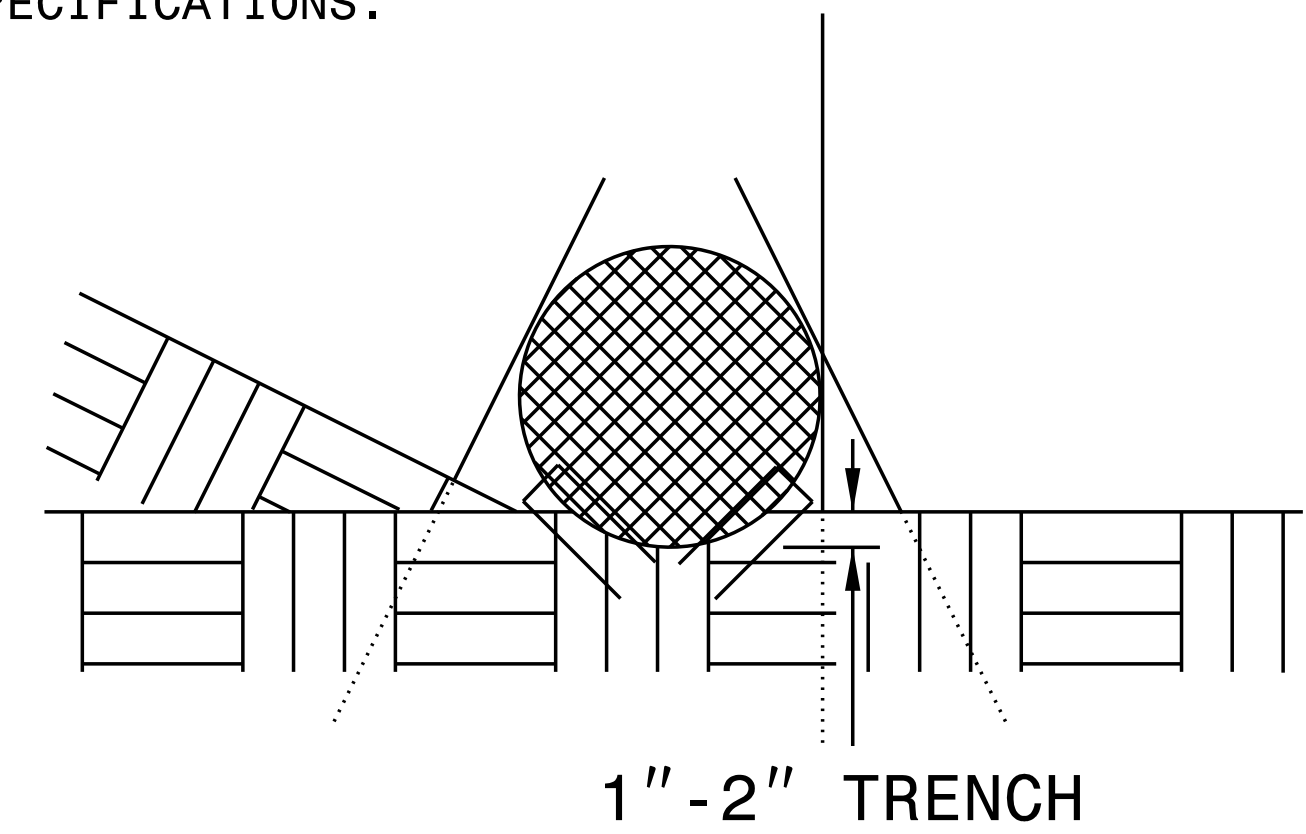
PROJECT REFERENCE NO. <i>U-2525C</i>	SHEET NO. <i>EC-2D</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



NOTES:

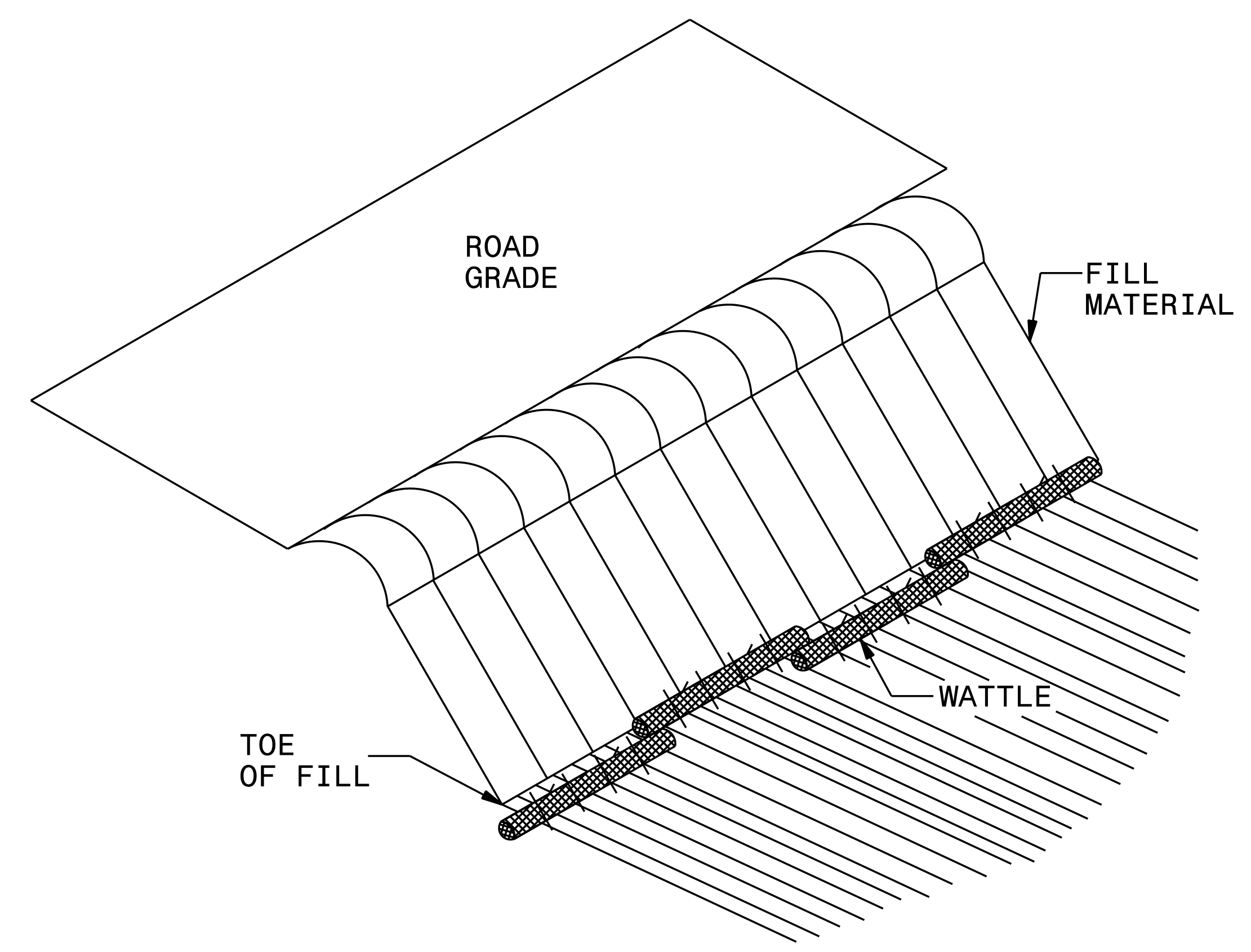
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE 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

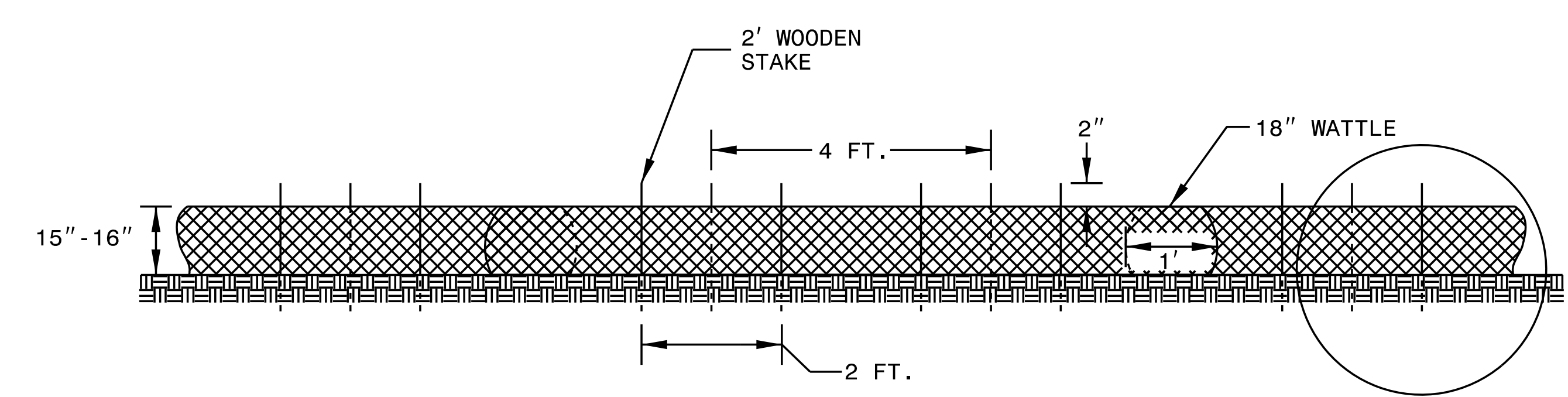


PROJECT REFERENCE NO. <i>U-2525C</i>	SHEET NO. <i>EC-2E</i>
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

WATTLE BARRIER DETAIL

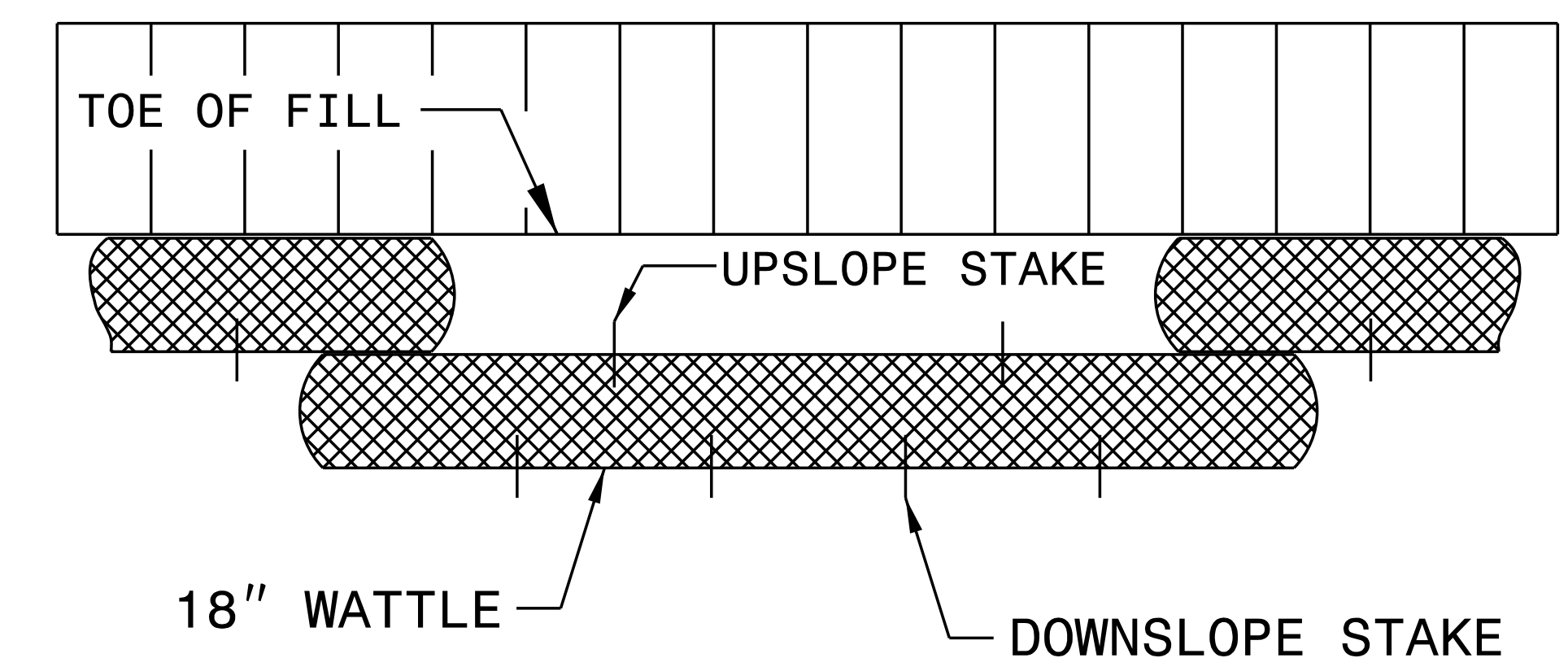
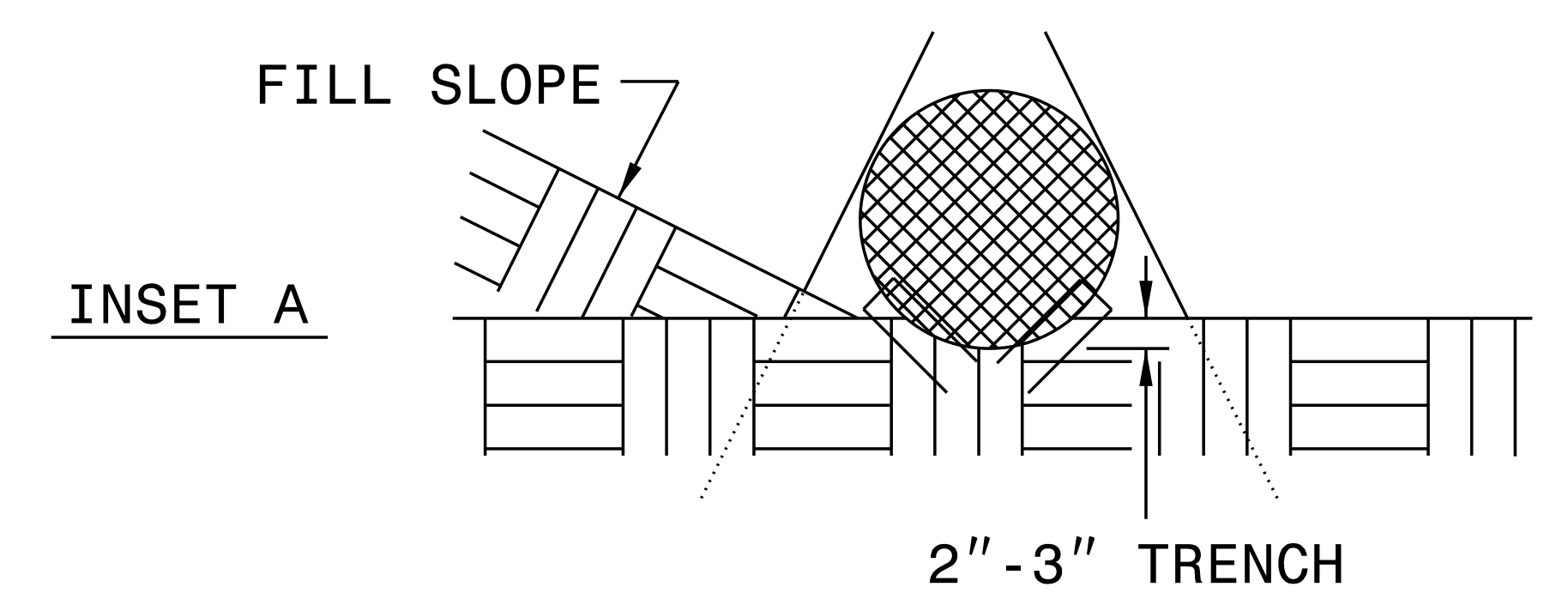


ISOMETRIC VIEW



FRONT VIEW

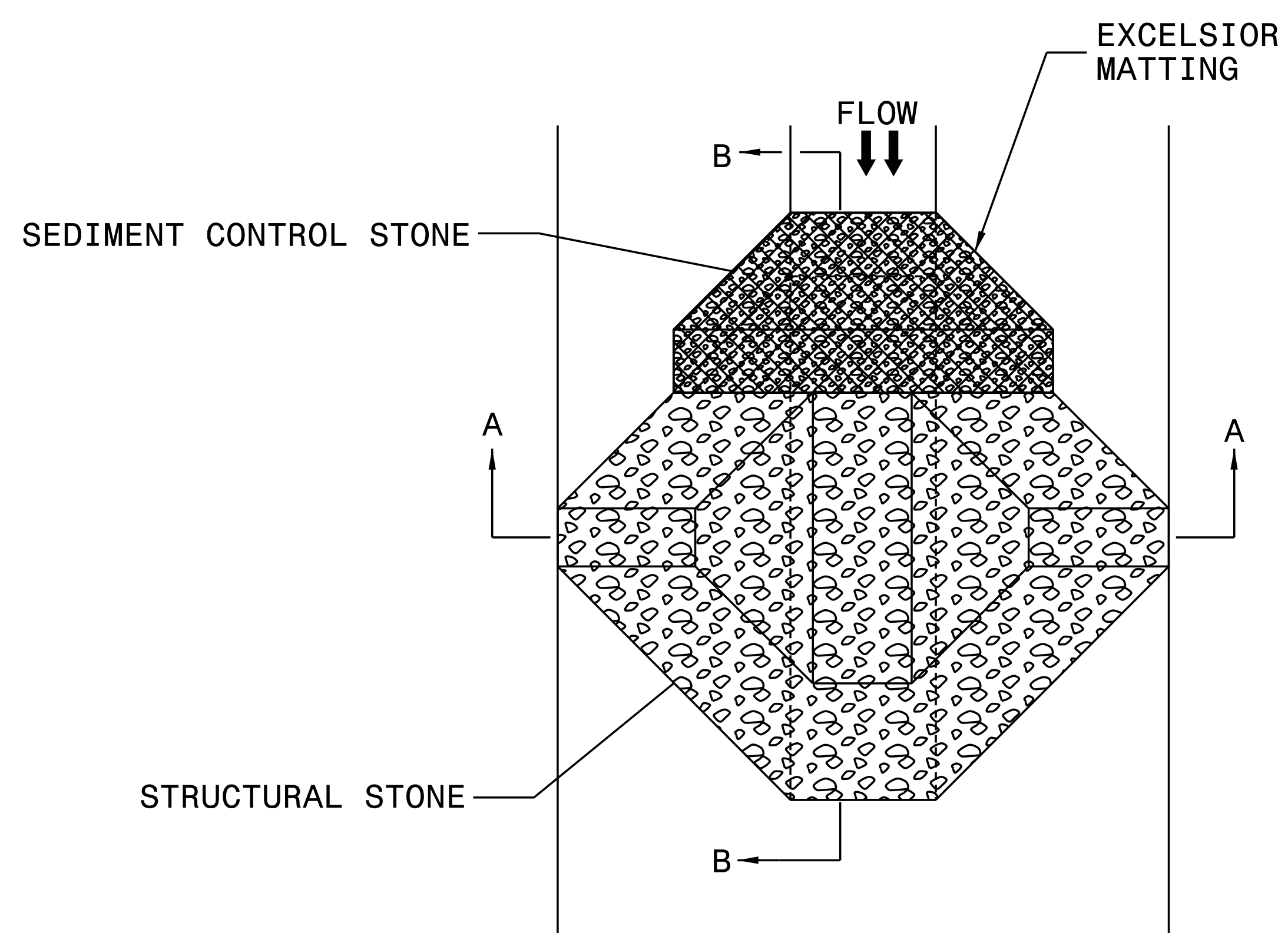
- NOTES:**
- USE MINIMUM 18 IN. NOMINAL DIAMETER EXCELSIOR WATTLE AND LENGTH OF 10 FT.
 - EXCAVATE A 2 TO 3 INCH TRENCH FOR WATTLE TO BE PLACED.
 - DO NOT PLACE WATTLES ON TOE OF SLOPE.
 - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
 - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 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.
 - FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 25 FT.



TOP VIEW

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-2F
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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



PLAN

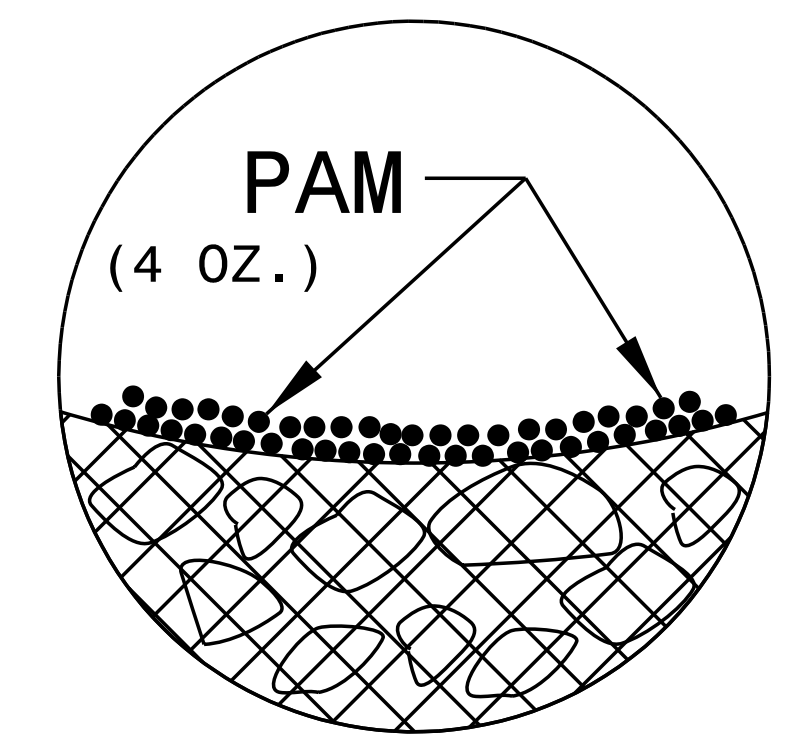
NOTES:

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

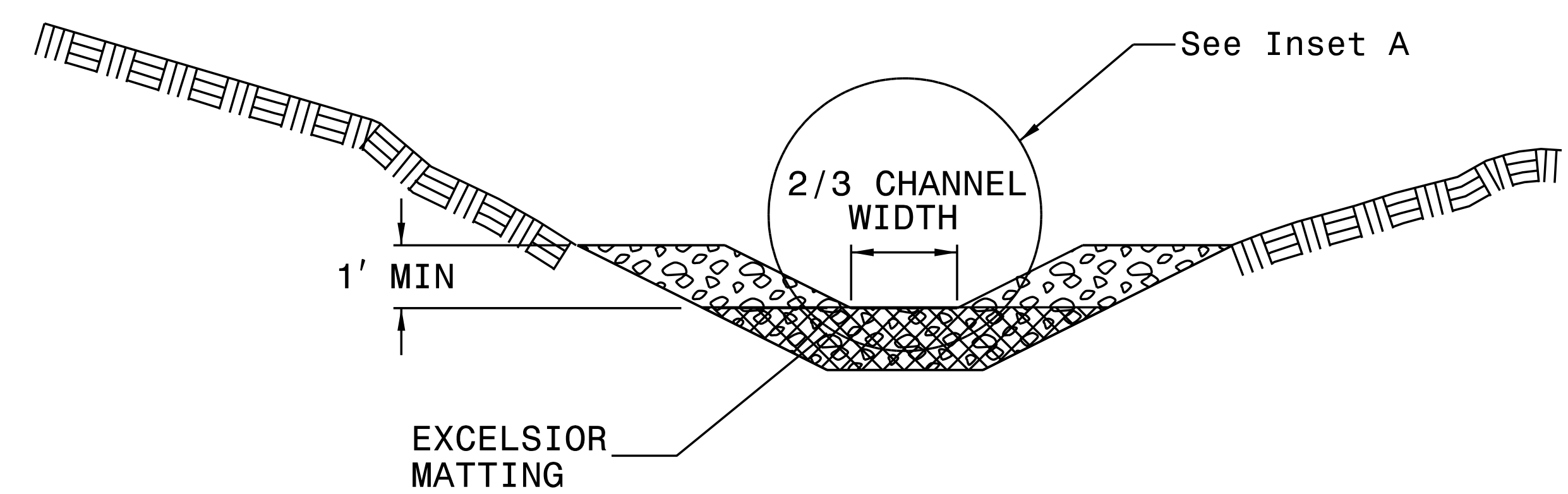
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

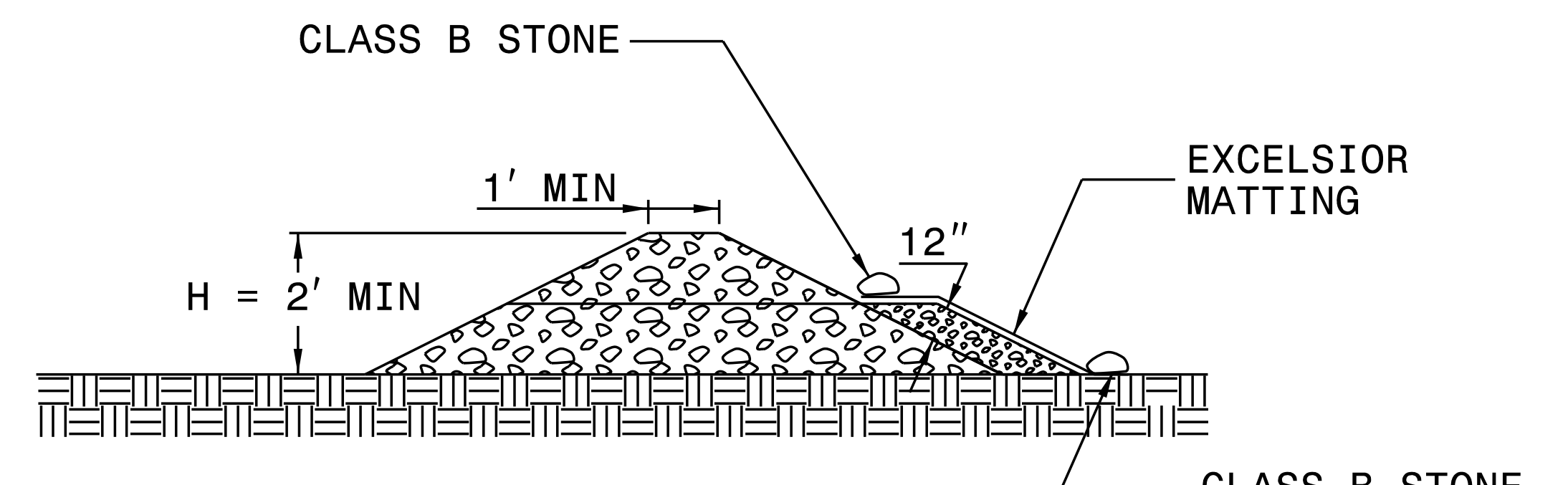
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE


DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>U-2525C</i>	SHEET NO. <i>EC-3B</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SOIL STABILIZATION TIMEFRAMES

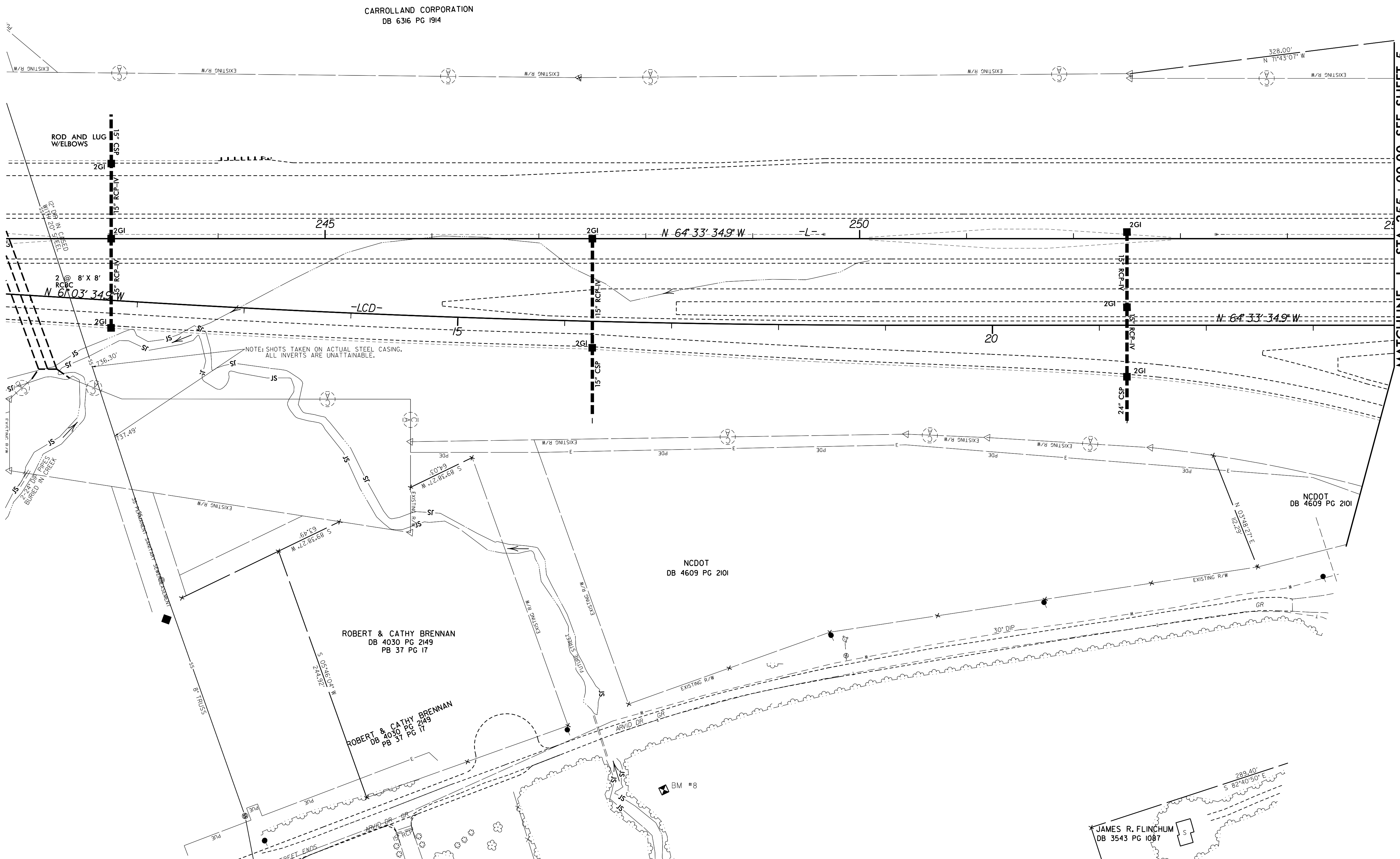
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 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.

8.17/99

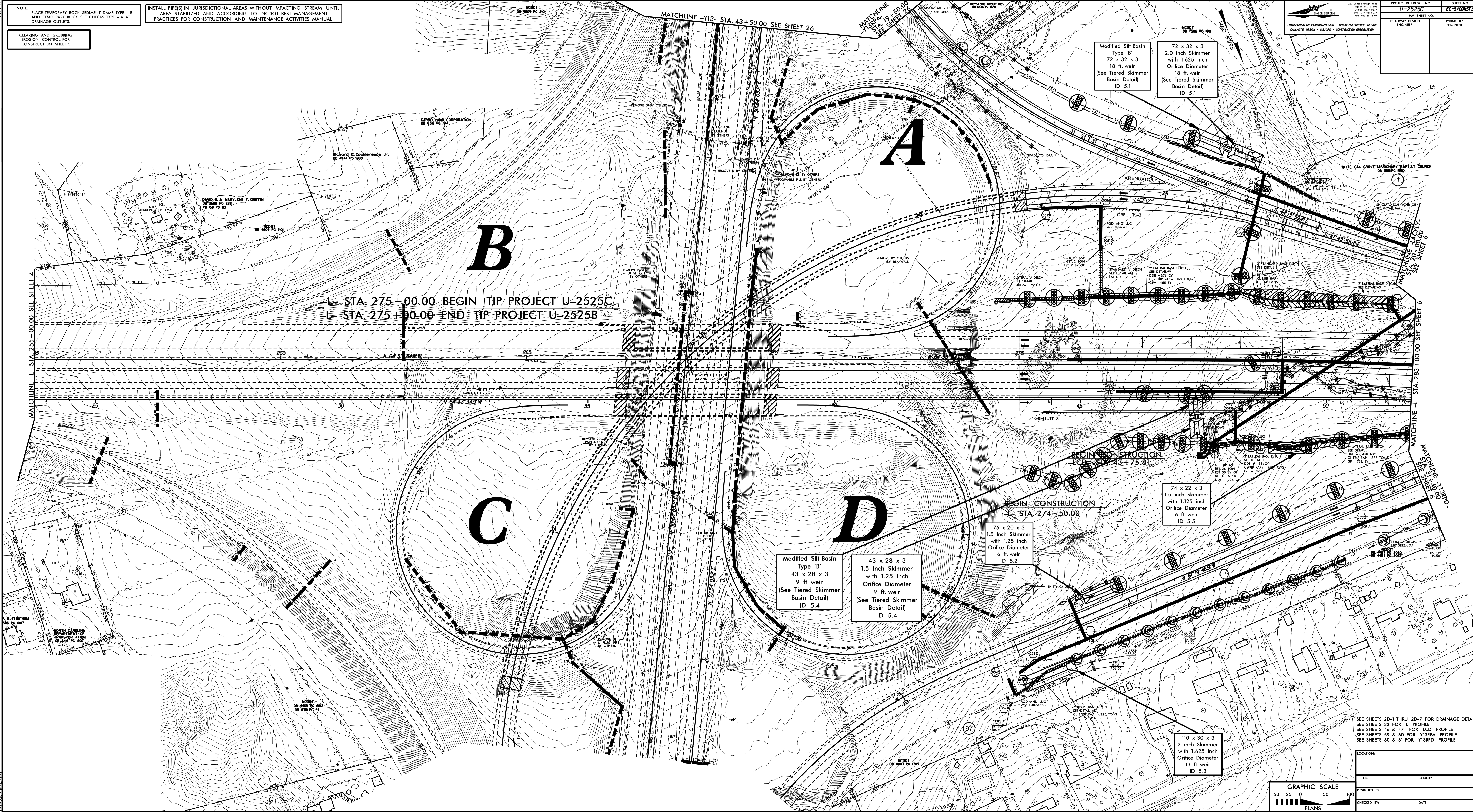

 1223 Jones Franklin Road
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-4/CONST.4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
NOTE: PLAN SHEET FOR INFORMATION ONLY	



10'-0" DIA. PIPE
 BURIED IN CONC.



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

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.

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 5

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-5/CONSTR.5
ROW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

Modified Silt Basin
 Type 'B'
 72 x 32 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 18 ft. weir
 (See Tiered Skimmer
 Basin Detail
 ID 5.1)

72 x 32 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 18 ft. weir
 (See Tiered Skimmer
 Basin Detail
 ID 5.1)

L STA. 275+00.00 BEGIN TIP PROJECT U-2525C
 L STA. 275+00.00 END TIP PROJECT U-2525B

Modified Silt Basin
 Type 'B'
 43 x 28 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 9 ft. weir
 (See Tiered Skimmer
 Basin Detail
 ID 5.4)

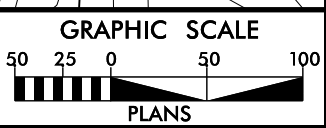
43 x 28 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 9 ft. weir
 (See Tiered Skimmer
 Basin Detail
 ID 5.4)

66 x 20 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 6 ft. weir
 ID 5.2

74 x 22 x 3
 1.5 inch Skimmer
 with 1.125 inch
 Orifice Diameter
 6 ft. weir
 ID 5.5

110 x 30 x 3
 2 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 13 ft. weir
 ID 5.3

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 32 FOR -L- PROFILE
 SEE SHEETS 46 & 47 FOR -LCD- PROFILE
 SEE SHEETS 59 & 60 FOR -138RA- PROFILE
 SEE SHEETS 60 & 61 FOR -138RD- PROFILE



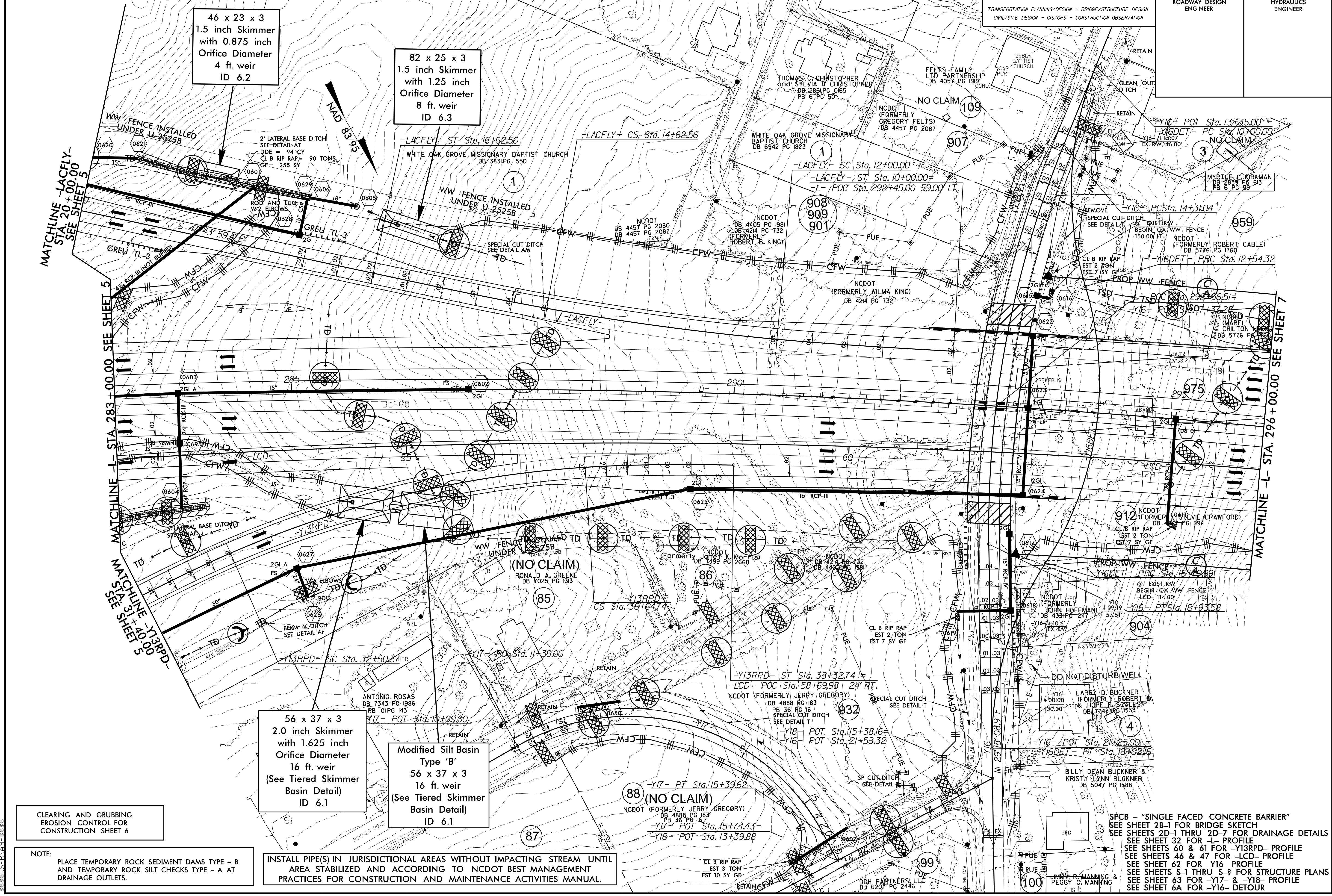
LOCATION	COUNTY
TIP NO.	DESIGNED BY
CHECKED BY	DATE

8.17/99

WETHERILL ENGINEERING
 1223 Jones Franklin Road
 Raleigh, N.C. 27606
 License No. F-3077
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-6/CONST.6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



46 x 23 x 3
 1.5 inch Skimmer
 with 0.875 inch
 Orifice Diameter
 4 ft. weir
 ID 6.2

82 x 25 x 3
 1.5 inch Skimmer
 with 1.25 inch
 Orifice Diameter
 8 ft. weir
 ID 6.3

56 x 37 x 3
 2.0 inch Skimmer
 with 1.625 inch
 Orifice Diameter
 16 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.1

Modified Silt Basin
 Type 'B'
 56 x 37 x 3
 16 ft. weir
 (See Tiered Skimmer
 Basin Detail)
 ID 6.1

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.

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.

SFCB - "SINGLE FACED CONCRETE BARRIER"
 SEE SHEET 2B-1 FOR BRIDGE SKETCH
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEET 32 FOR -L- PROFILE
 SEE SHEETS 60 & 61 FOR -Y13RPD- PROFILE
 SEE SHEETS 46 & 47 FOR -LCD- PROFILE
 SEE SHEET 62 FOR -Y16- PROFILE
 SEE SHEETS S-1 THRU S-3 FOR STRUCTURE PLANS
 SEE SHEET 63 FOR -Y17- & -Y18- PROFILE
 SEE SHEET 6A FOR -Y16- DETOUR

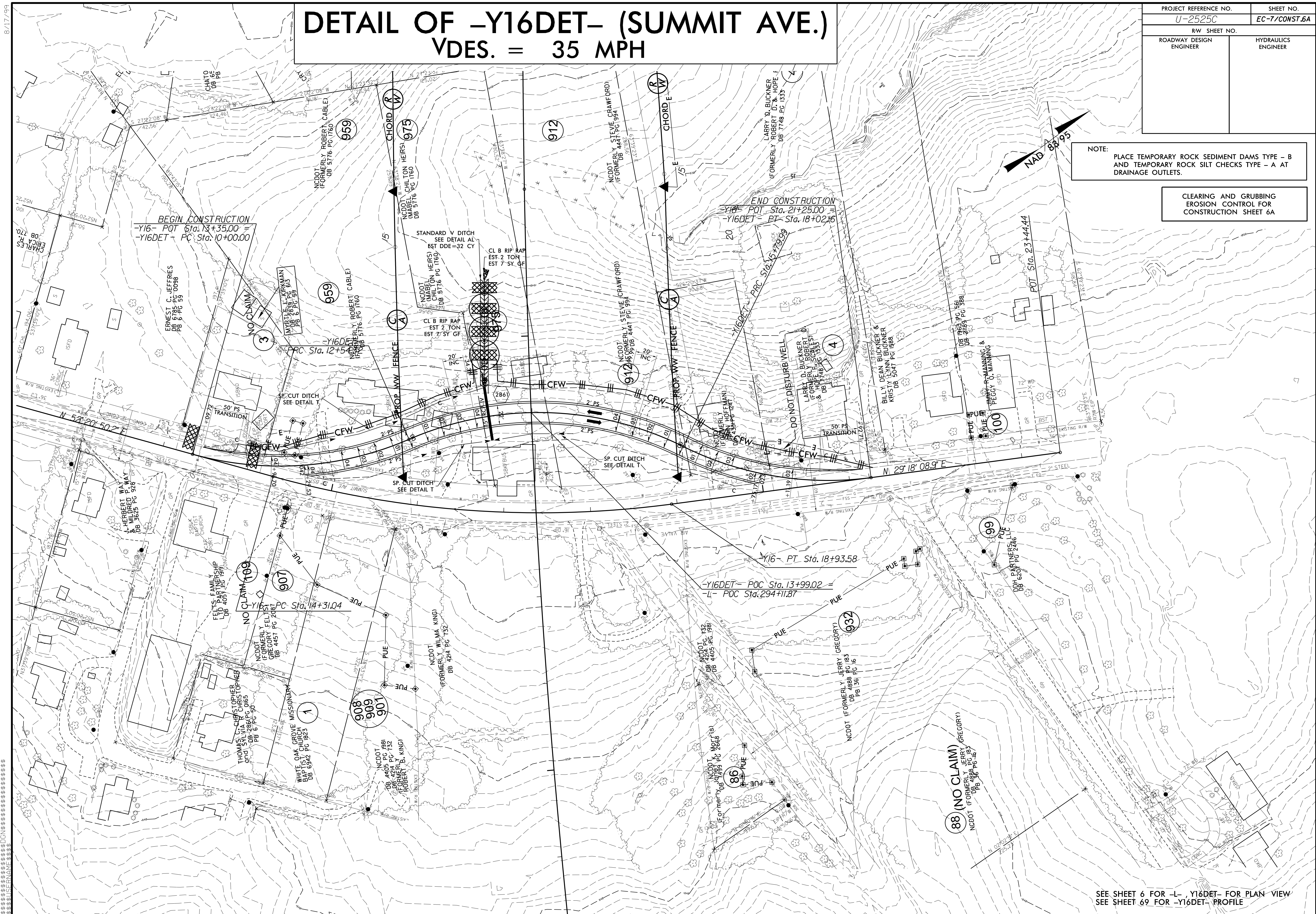
DETAIL OF -Y16DET- (SUMMIT AVE.)

VDES. = 35 MPH

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-7/CONST.6A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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 6A



SEE SHEET 6 FOR -L-, Y16DET- FOR PLAN VIEW
SEE SHEET 69 FOR -Y16DET- PROFILE

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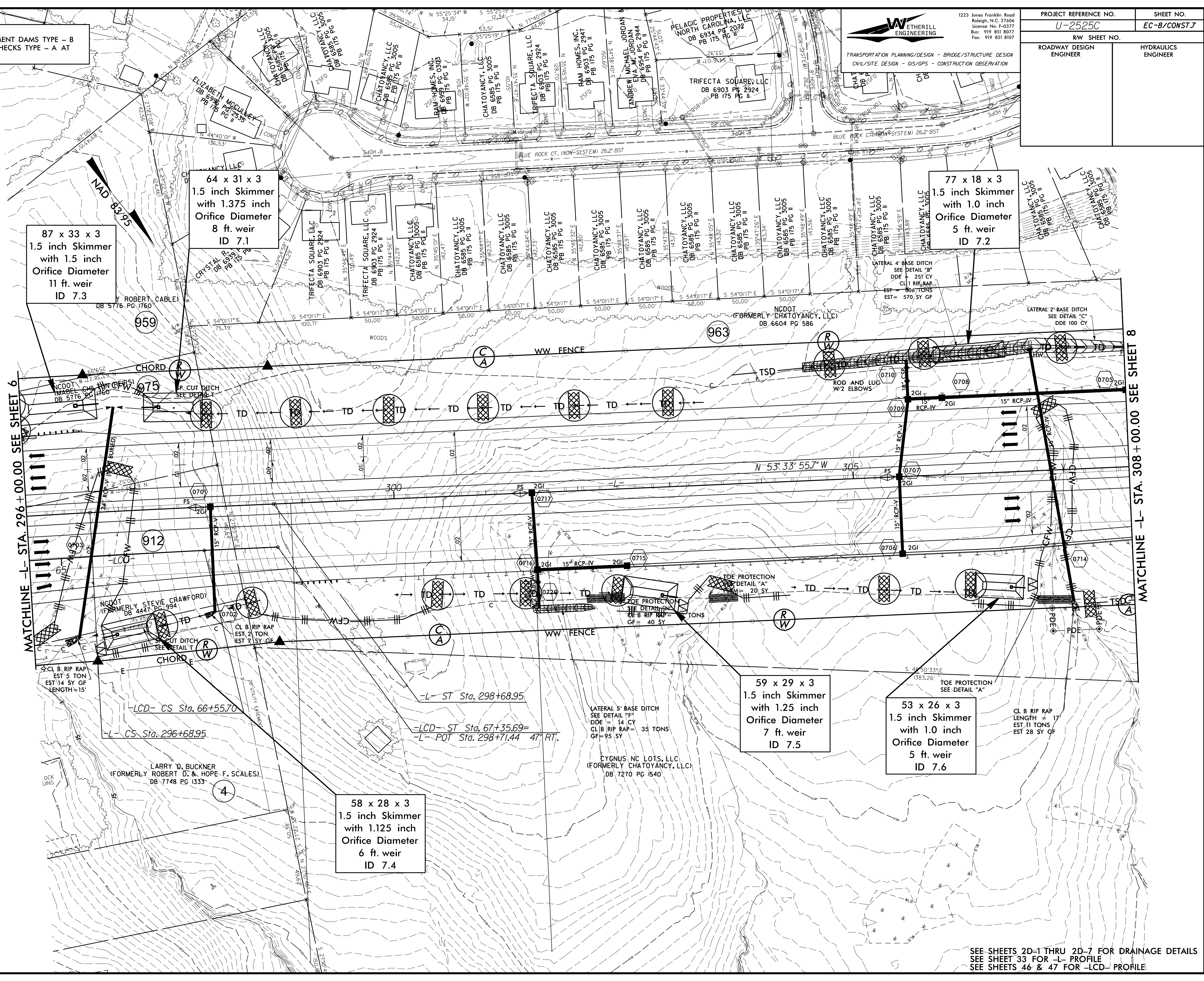
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 7

ETHERILL ENGINEERING
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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 Raleigh, N.C. 27606
 License No. F-3077
 Bus: 919 851 8077
 Fax: 919 851 8107

PROJECT REFERENCE NO.	SHEET NO.
U-2525C	EC-8/CONST.7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEET 33 FOR -L- PROFILE
 SEE SHEETS 46 & 47 FOR -LCD- PROFILE

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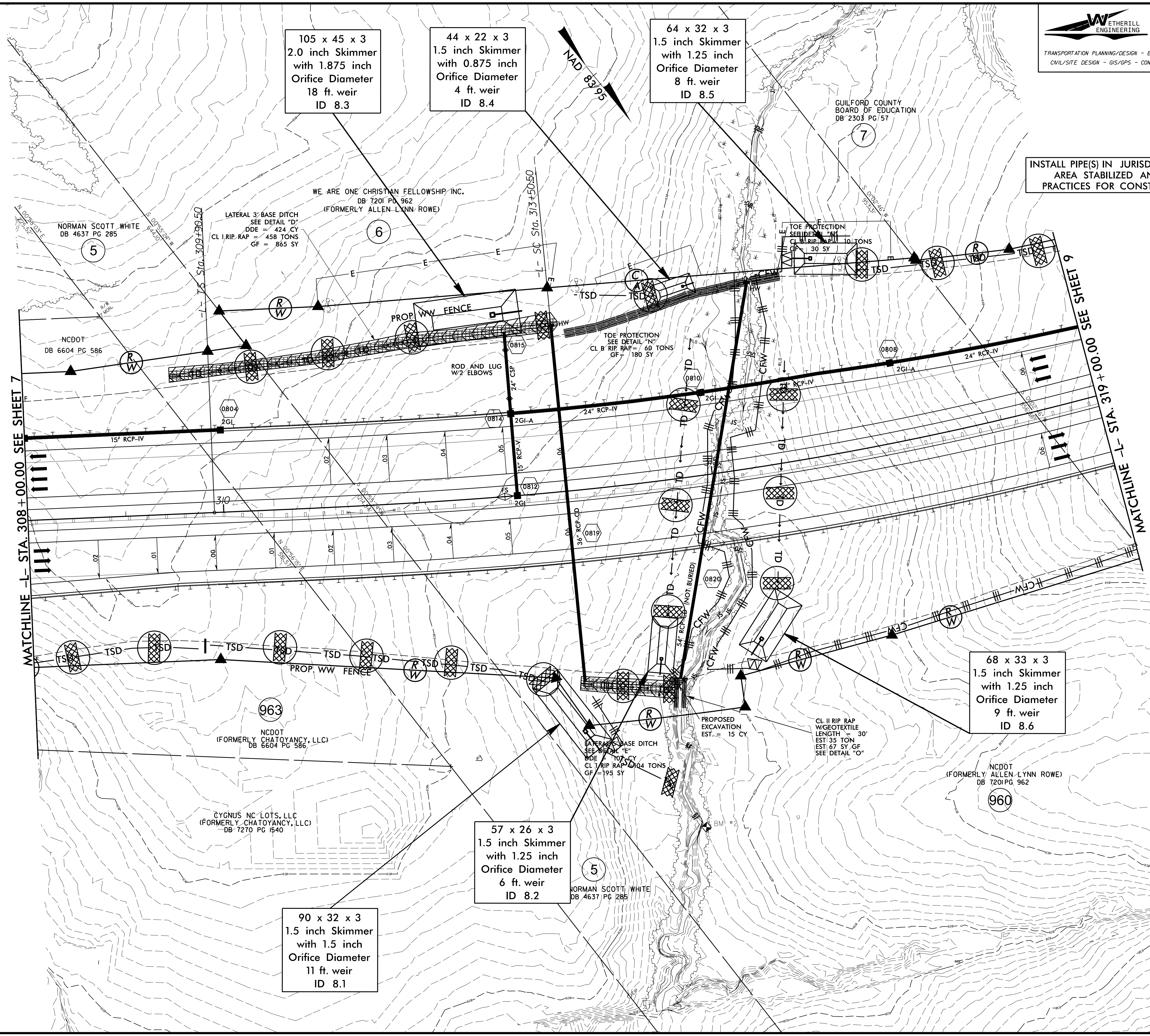
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-9/CONST.8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

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.

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 8



SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEET 33 FOR -L- PROFILE

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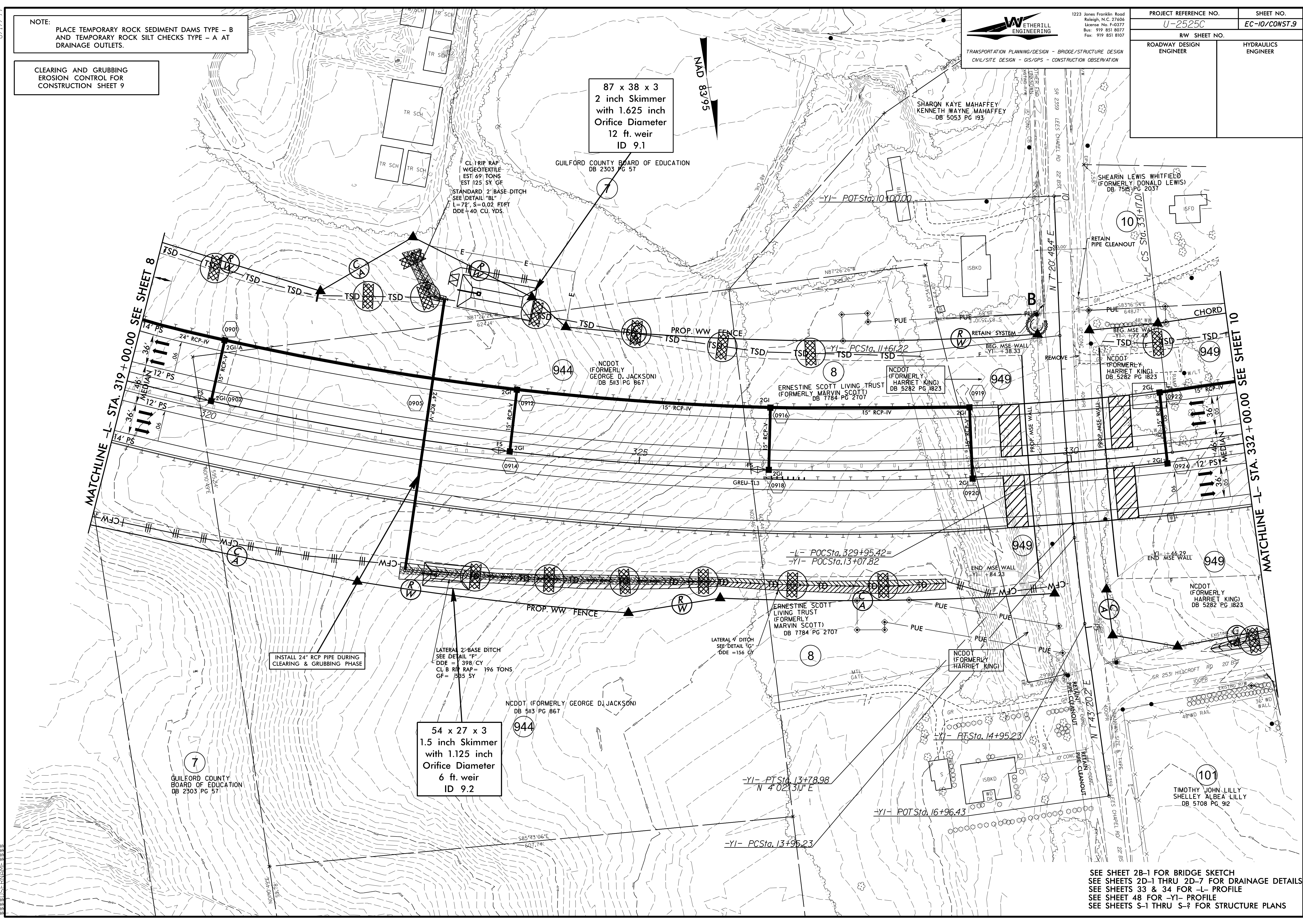
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-10/CONSTR.9
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 2B-1 FOR BRIDGE SKETCH
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEETS 33 & 34 FOR -L- PROFILE
SEE SHEET 48 FOR -Y1- PROFILE
SEE SHEETS S-1 THRU S-? FOR STRUCTURE PLANS

8.17.799

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

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 10

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.

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-II/CONST.10
RW SHEET NO.	HYDRAULICS ENGINEER
ROADWAY DESIGN ENGINEER	

MATCHLINE -L- STA. 332 + 00.00 SEE SHEET 9

MATCHLINE -L- STA. 345 + 00.00 SEE SHEET 11

48 x 24 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 10.2

95 x 36 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
13 ft. weir
ID 10.6

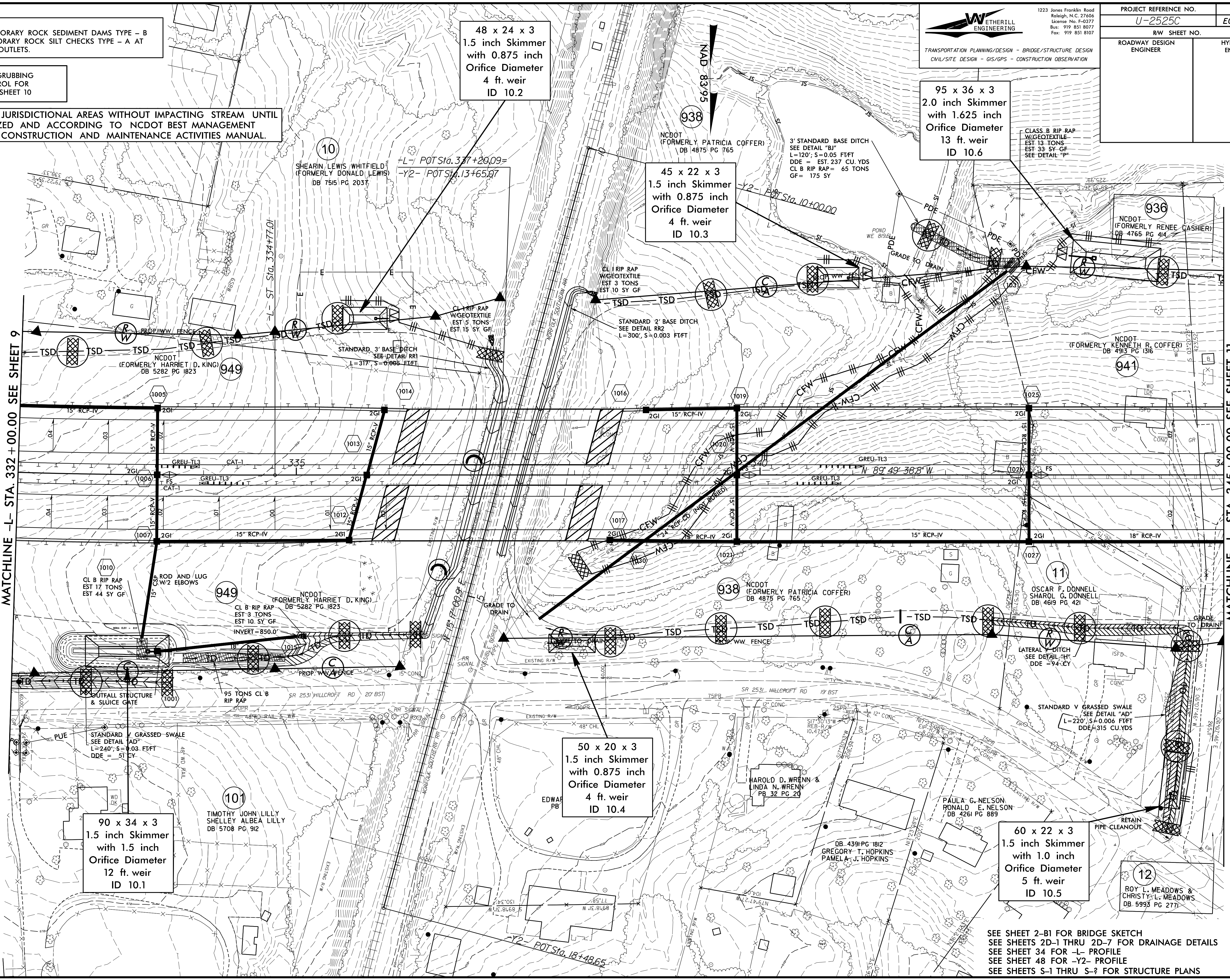
45 x 22 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 10.3

50 x 20 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
4 ft. weir
ID 10.4

90 x 34 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
12 ft. weir
ID 10.1

60 x 22 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 10.5

12
ROY L. MEADOWS &
CHRISTY L. MEADOWS
DB 5993 PG 2771



SEE SHEET 2-B1 FOR BRIDGE SKETCH
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEET 34 FOR -L- PROFILE
SEE SHEET 48 FOR -Y2- PROFILE
SEE SHEETS S-1 THRU S-2 FOR STRUCTURE PLANS

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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 11

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.

ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

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 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

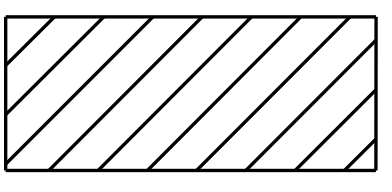
PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-12/CONST.11
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

Modified Silt Basin Type 'B' 41 x 27 x 3 8 ft. weir (See Tiered Skimmer Basin Detail) ID 11.1

41 x 27 x 3 1.5 inch Skimmer with 1.125 inch Orifice Diameter 8 ft. weir (See Tiered Skimmer Basin Detail) ID 11.1

63 x 31 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 7 ft. weir ID 11.6

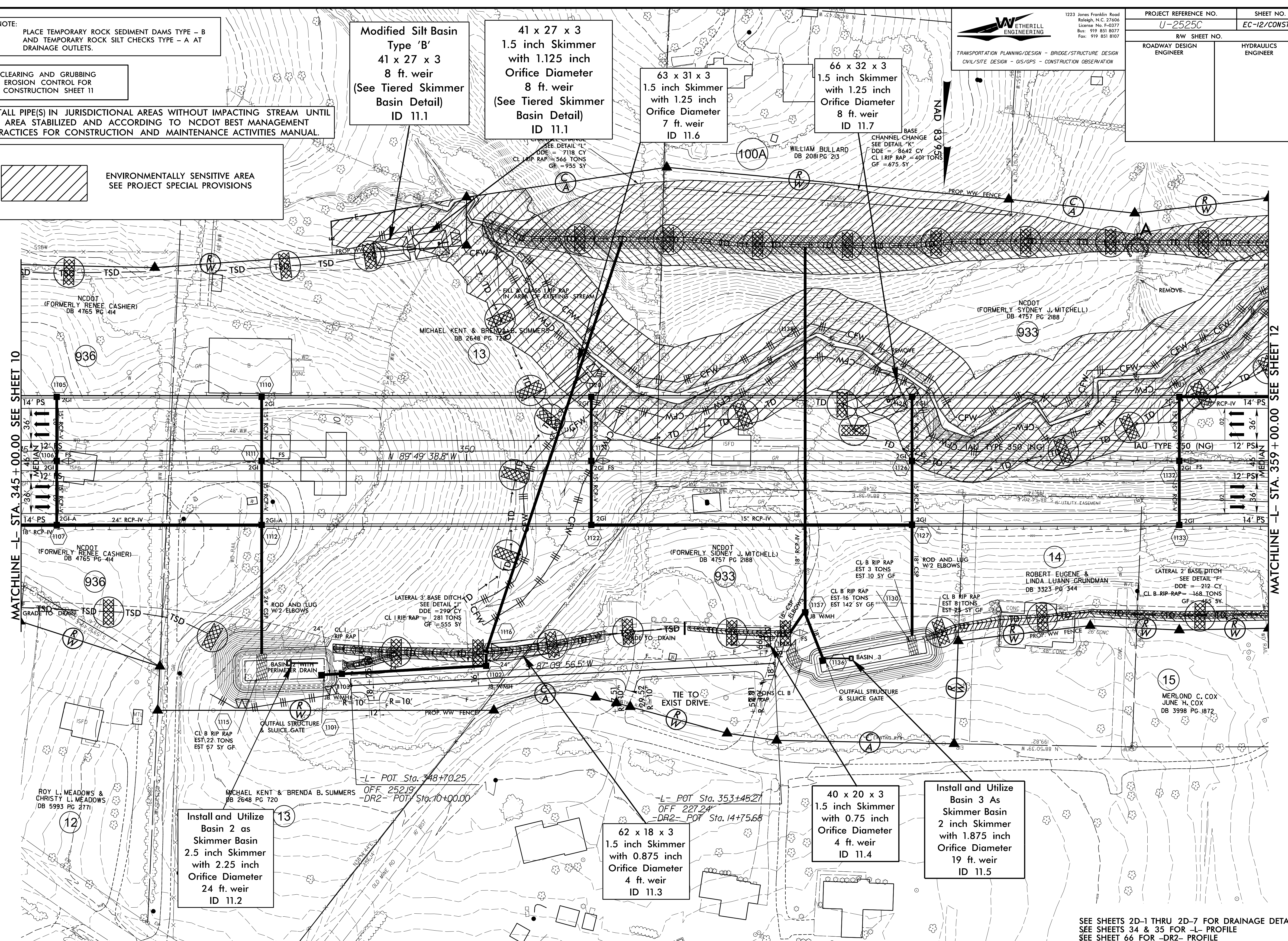
66 x 32 x 3 1.5 inch Skimmer with 1.25 inch Orifice Diameter 8 ft. weir ID 11.7



ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

MATCHLINE -L- STA. 345+00.00 SEE SHEET 10

MATCHLINE -L- STA. 359+00.00 SEE SHEET 12



Install and Utilize Basin 2 as Skimmer Basin 2.5 inch Skimmer with 2.25 inch Orifice Diameter 24 ft. weir ID 11.2

62 x 18 x 3 1.5 inch Skimmer with 0.875 inch Orifice Diameter 4 ft. weir ID 11.3

40 x 20 x 3 1.5 inch Skimmer with 0.75 inch Orifice Diameter 4 ft. weir ID 11.4

Install and Utilize Basin 3 As Skimmer Basin 2 inch Skimmer with 1.875 inch Orifice Diameter 19 ft. weir ID 11.5

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEETS 34 & 35 FOR -L- PROFILE
SEE SHEET 66 FOR -DR2- PROFILE

8.17.799

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 12

80 x 39 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
12 ft. weir
ID 12.5

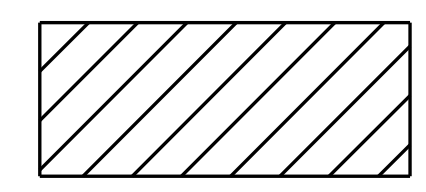
56 x 27 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 12.1

56 x 27 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 12.2

54 x 26 x 3
1.5 inch Skimmer
with 1.0 inch
Orifice Diameter
5 ft. weir
ID 12.6

64 x 31 x 3
1.5 inch Skimmer
with 1.375 inch
Orifice Diameter
8 ft. weir
ID 12.3

Install and Utilize
Basin 4 As
Skimmer Basin
2.5 inch Skimmer
with 2.375 inch
Orifice Diameter
30 ft. weir
ID 12.4

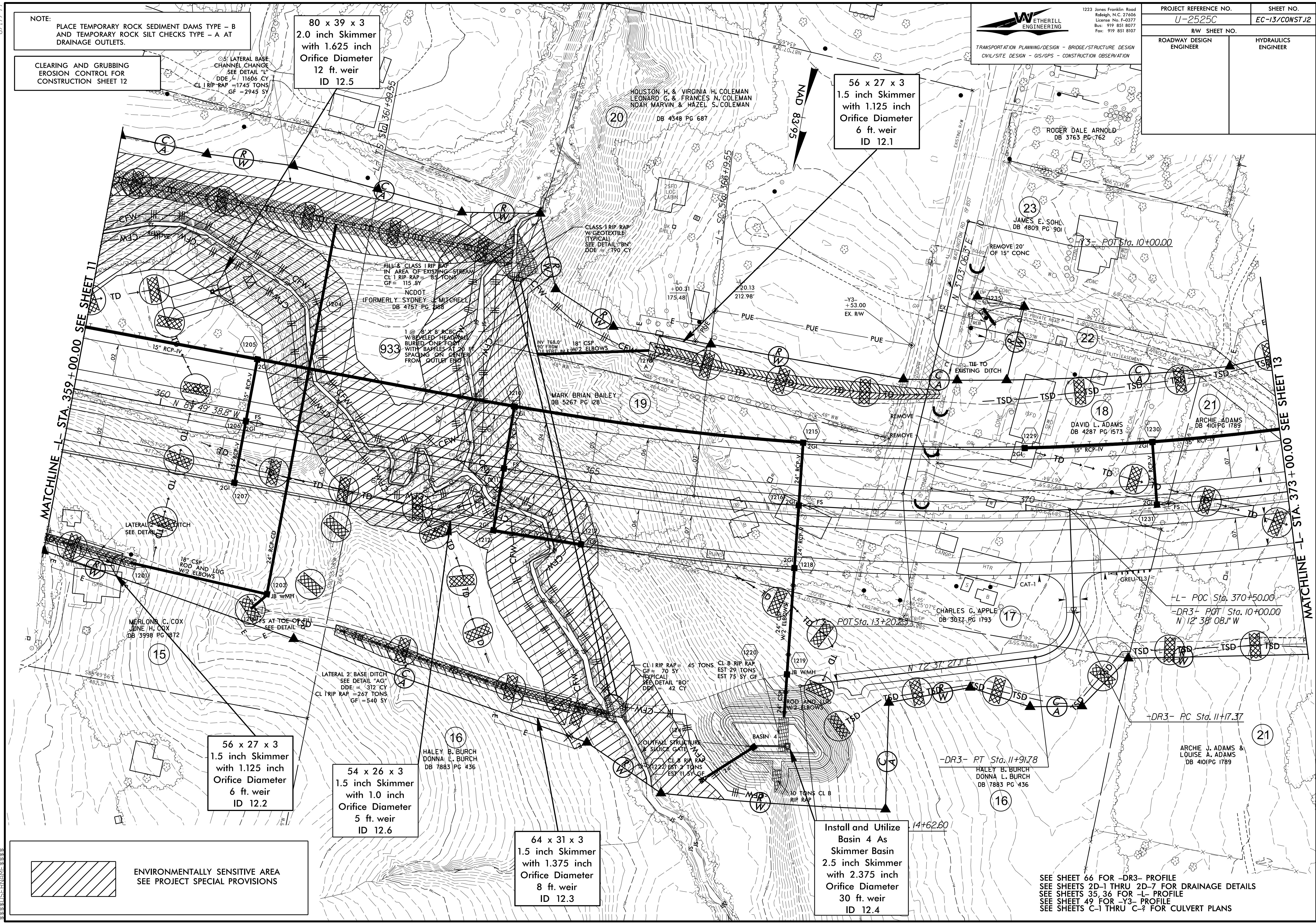


ENVIRONMENTALLY SENSITIVE AREA
SEE PROJECT SPECIAL PROVISIONS

WETHERILL ENGINEERING
 TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-13/CONST J2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



SEE SHEET 66 FOR -DR3- PROFILE
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEETS 35, 36 FOR -L- PROFILE
SEE SHEET 49 FOR -Y3- PROFILE
SEE SHEETS C-1 THRU C-2 FOR CULVERT PLANS

8.17/99

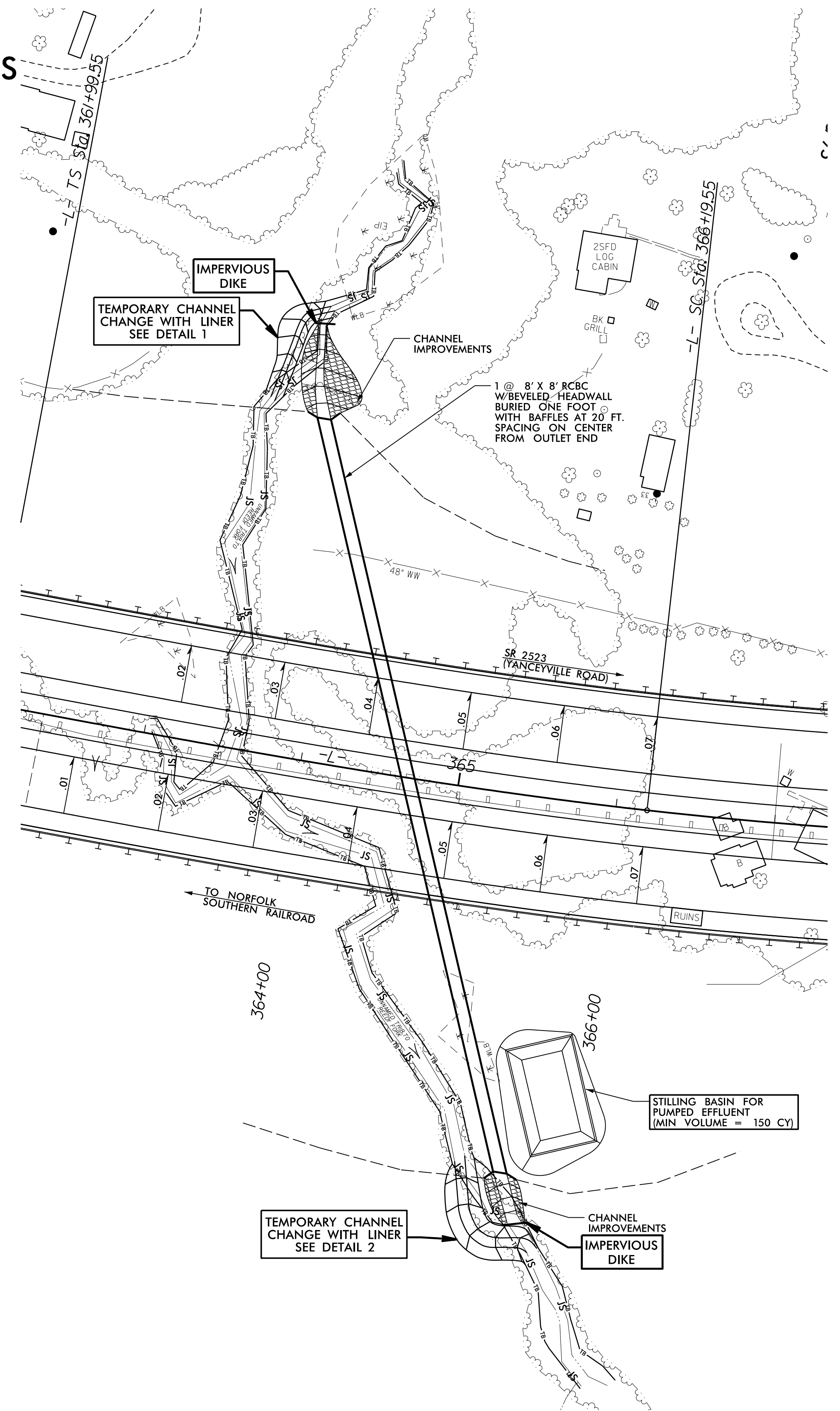
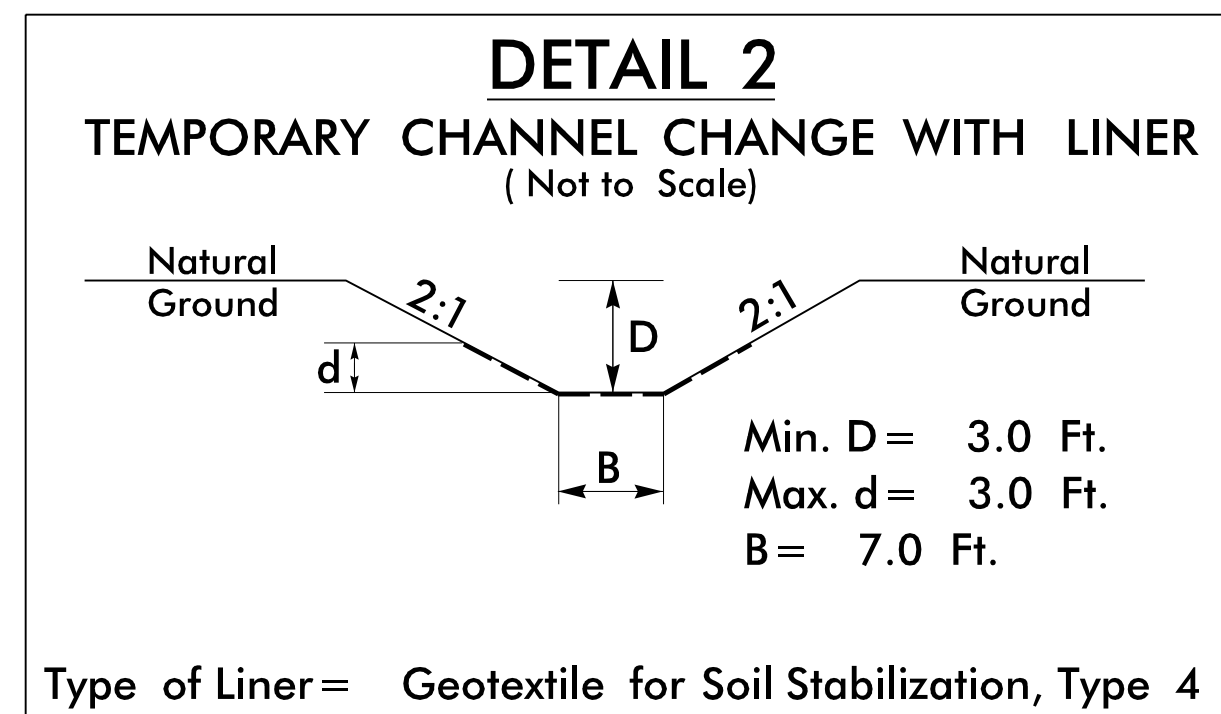
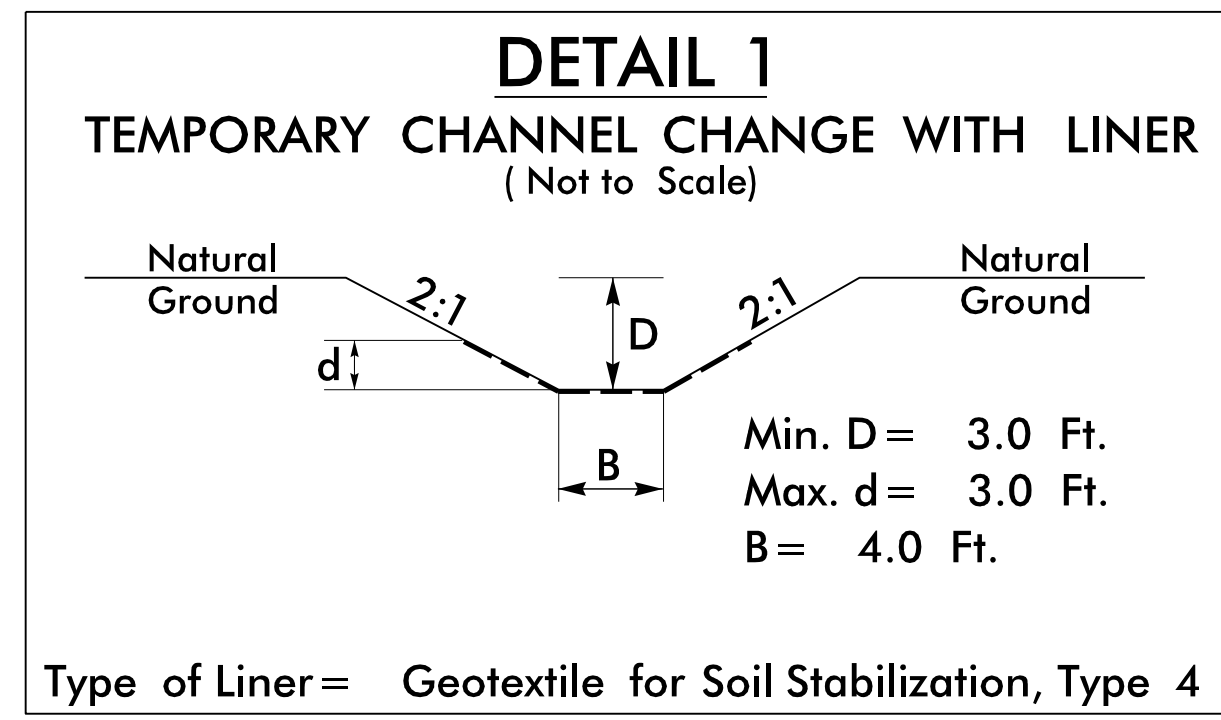
CONSTRUCTION PHASING CULVERT AT STATION 364+68 -L-

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO.
U-2525C
EC-13A/CONST.12

CONSTRUCTION SEQUENCE

1. INSTALL PROPOSED EROSION CONTROL MEASURES
2. INSTALL STILLING BASIN FOR PUMPED EFFLUENT (MIN. VOLUME 150 CY).
3. CONSTRUCT IMPERVIOUS DIKES AND INSTALL TEMPORARY CHANNEL CHANGES WITH LINER (SEE DETAILS).
4. CONSTRUCT PROPOSED CULVERT AND CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKES, TEMPORARY CHANNEL CHANGES WITH LINER, AND STILLING BASIN AND DIVERT FLOW INTO PROPOSED CULVERT.
6. COMPLETE ROADWAY.



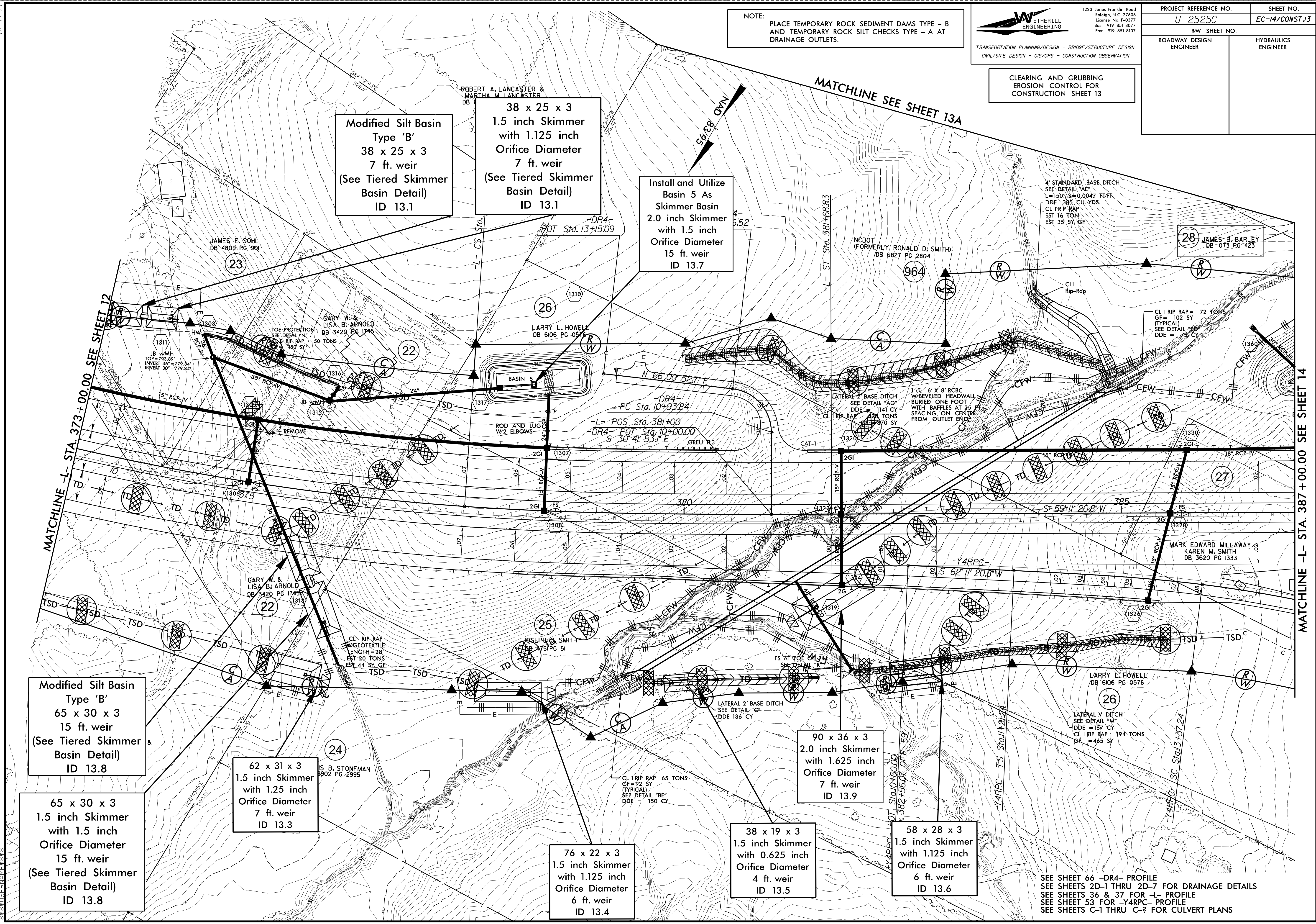
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NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-14/CONST.13
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 13



Modified Silt Basin
Type 'B'
38 x 25 x 3
7 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 13.1

38 x 25 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
7 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 13.1

Install and Utilize
Basin 5 As
Skimmer Basin
2.0 inch Skimmer
with 1.5 inch
Orifice Diameter
15 ft. weir
ID 13.7

Modified Silt Basin
Type 'B'
65 x 30 x 3
15 ft. weir
(See Tiered Skimmer &
Basin Detail)
ID 13.8

62 x 31 x 3
1.5 inch Skimmer
with 1.25 inch
Orifice Diameter
7 ft. weir
ID 13.3

65 x 30 x 3
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
15 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 13.8

76 x 22 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 13.4

38 x 19 x 3
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
ID 13.5

90 x 36 x 3
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
7 ft. weir
ID 13.9

58 x 28 x 3
1.5 inch Skimmer
with 1.125 inch
Orifice Diameter
6 ft. weir
ID 13.6

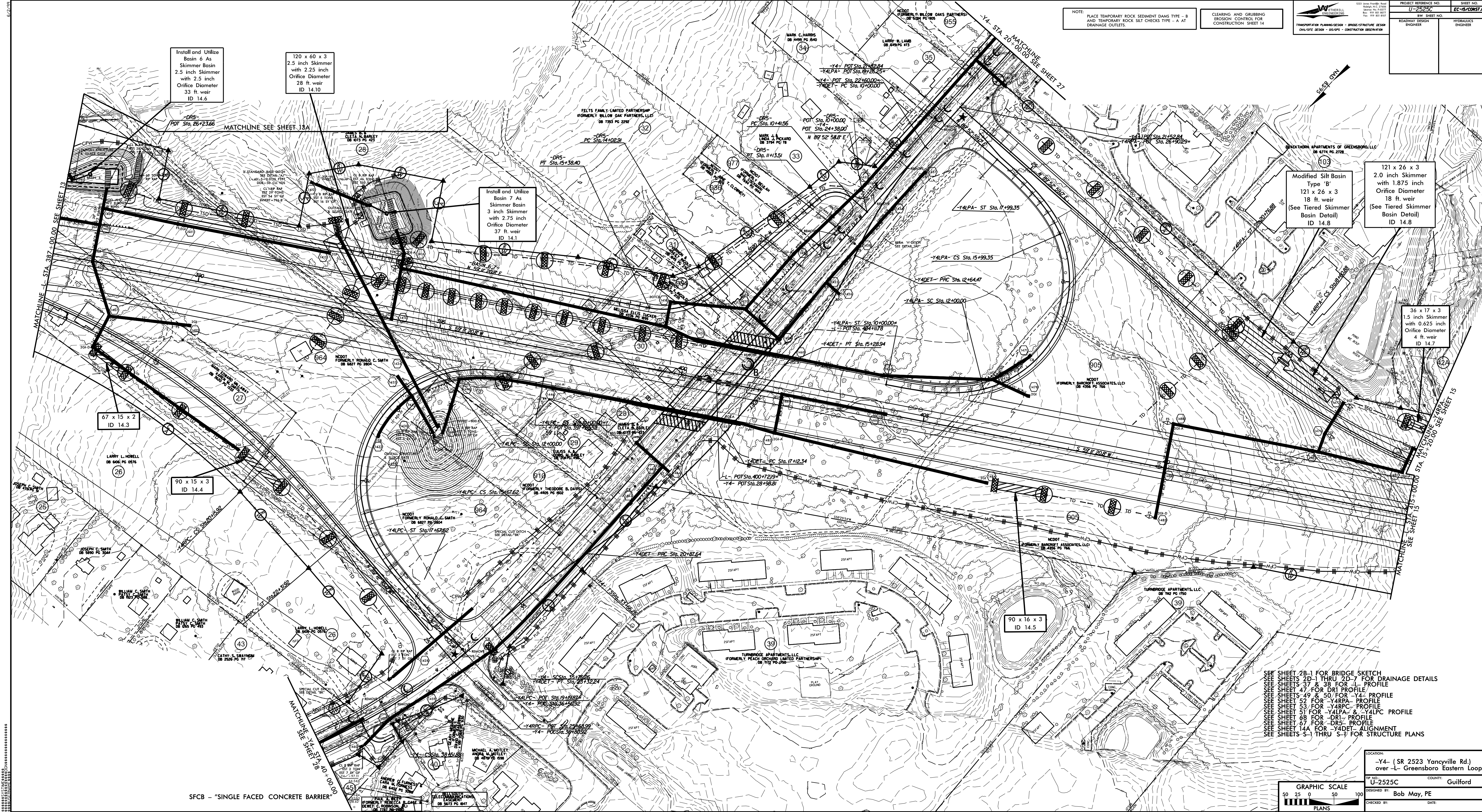
SEE SHEET 66 -DR4- PROFILE
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEETS 36 & 37 FOR -L- PROFILE
SEE SHEET 53 FOR -YARPC- PROFILE
SEE SHEETS C-1 THRU C-2 FOR CULVERT PLANS

MATCHLINE -L- STA. 373+00.00 SEE SHEET 12

MATCHLINE SEE SHEET 13A

MATCHLINE -L- STA. 387+00.00 SEE SHEET 14

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-15/CONSTR-14
PROJECT NAME BRIDGE CONTROL FOR CONSTRUCTION SHEET 14	ENGINEER HYDRAULICS ENGINEER
DESIGNER ROADWAY DESIGN ENGINEER	CHECKED BY DATE



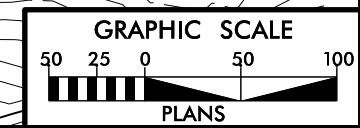
NOTE: PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

CLEARING AND GRUBBING EROSION CONTROL FOR CONSTRUCTION SHEET 14



SEE SHEET 28-1 FOR BRIDGE SKETCH
 SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
 SEE SHEETS 37 & 38 FOR -L- PROFILE
 SEE SHEET 47 FOR DRI PROFILE
 SEE SHEETS 49 & 50 FOR -Y4- PROFILE
 SEE SHEET 52 FOR -Y4RPA- PROFILE
 SEE SHEET 53 FOR -Y4RCP- PROFILE
 SEE SHEET 51 FOR -YALPA- & -Y4LPC- PROFILE
 SEE SHEET 68 FOR -DRI- PROFILE
 SEE SHEET 67 FOR -DRS- PROFILE
 SEE SHEET 14A FOR -Y4DET- ALIGNMENT
 SEE SHEETS S-1 THRU S-7 FOR STRUCTURE PLANS

SFCB - "SINGLE FACED CONCRETE BARRIER"



LOCATION -Y4- (SR 2523 Yancyville Rd.) over -L- Greensboro Eastern Loop	COUNTY Guilford
PROJECT NO. U-2525C	DESIGNED BY Bob May, PE
CHECKED BY DATE	

8.17.799

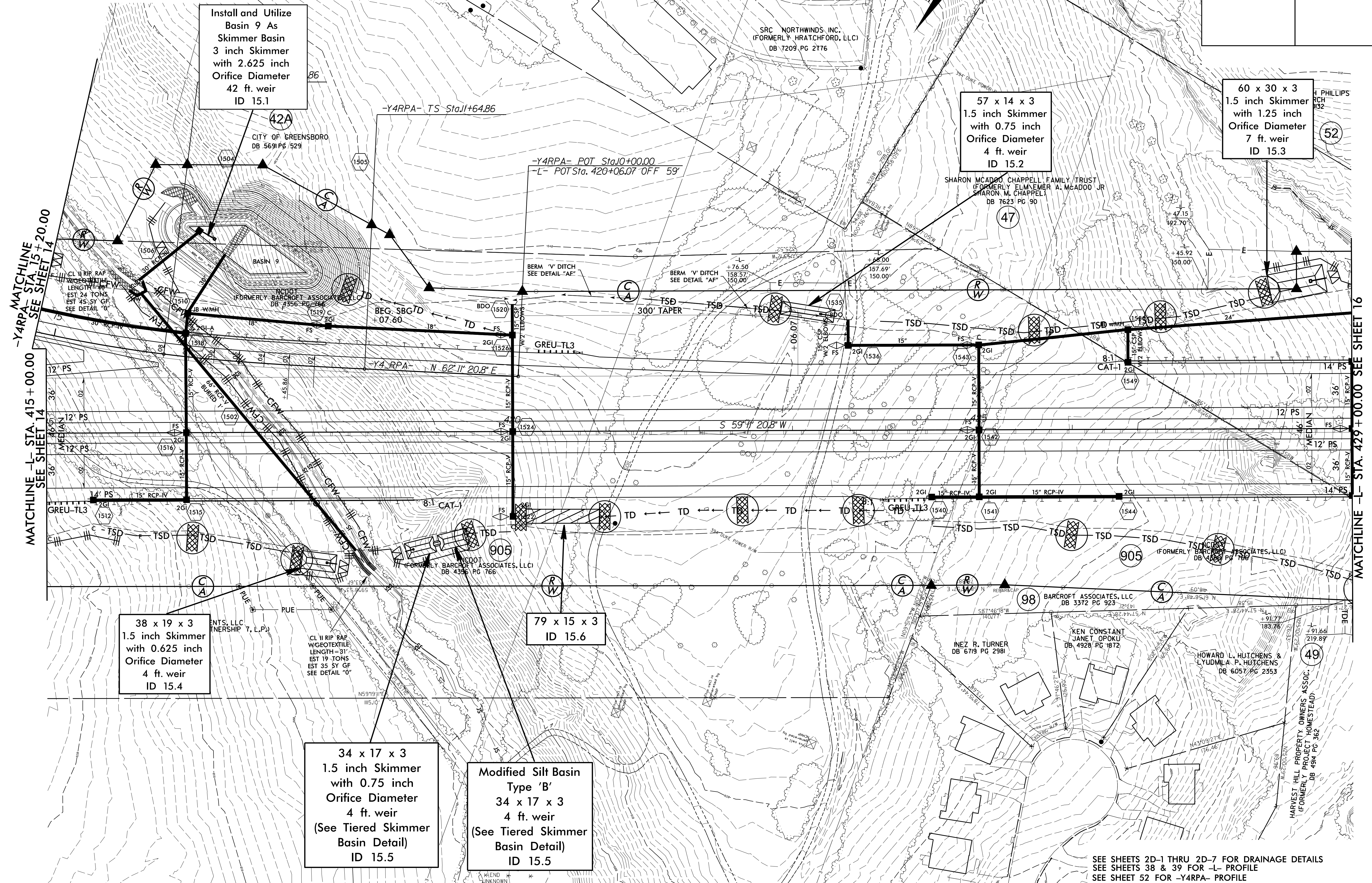
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 15

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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-17/CONST.15
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



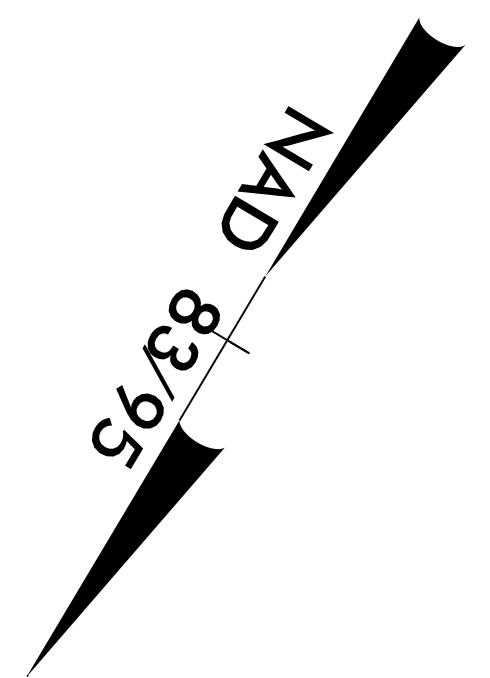
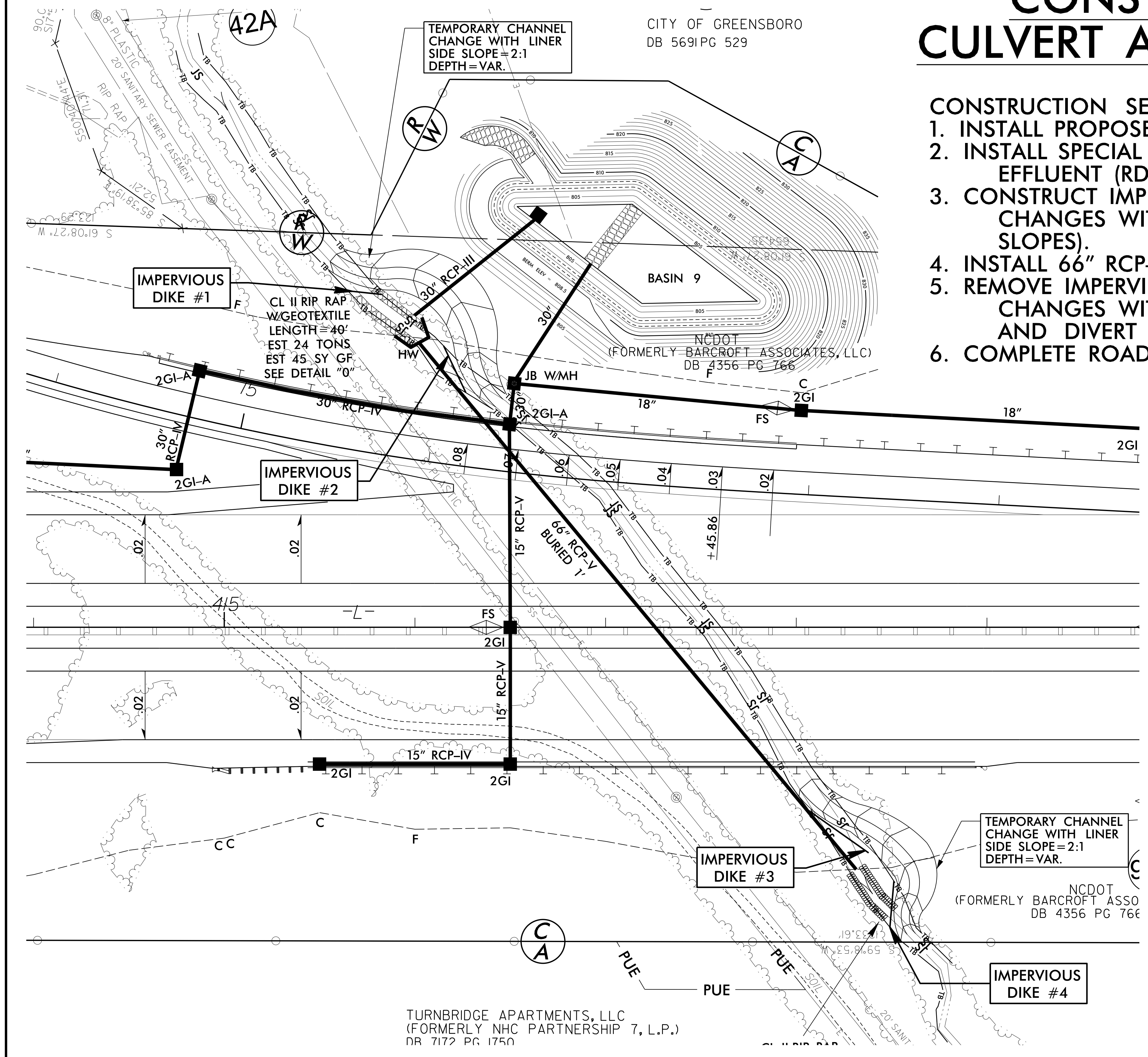
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEETS 38 & 39 FOR -L- PROFILE
SEE SHEET 52 FOR -Y4RPA- PROFILE

CONSTRUCTION PHASING

CULVERT AT STATION 417+26 -L-

CONSTRUCTION SEQUENCE

1. INSTALL PROPOSED EROSION CONTROL MEASURES
2. INSTALL SPECIAL STILLING BASIN(S) FOR PUMPED EFFLUENT (RDY STD. DWG 1630.06)
3. CONSTRUCT IMPERVIOUS DIKS 1-4 AND TEMPORARY CHANNEL CHANGES WITH LINER (6 FT. BASE, VARIABLE DEPTH, 2:1 SIDE SLOPES).
4. INSTALL 66" RCP-V AND CHANNEL IMPROVEMENTS.
5. REMOVE IMPERVIOUS DIKS 1-4, TEMPORARY CHANNEL CHANGES WITH LINER, AND SPECIAL STILLING BASIN(S) AND DIVERT FLOW INTO 66" RCP-V.
6. COMPLETE ROADWAY



8.17/99

CITY OF GREENSBORO
DB 5691 PG 529

NCDOT
(FORMERLY BARCROFT ASSOCIATES, LLC)
DB 4356 PG 766

NCDOT
(FORMERLY BARCROFT ASSO)
DB 4356 PG 766

TURNBRIDGE APARTMENTS, LLC
(FORMERLY NHC PARTNERSHIP 7, L.P.)
DB 7172 PG 1750

8.17.799

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

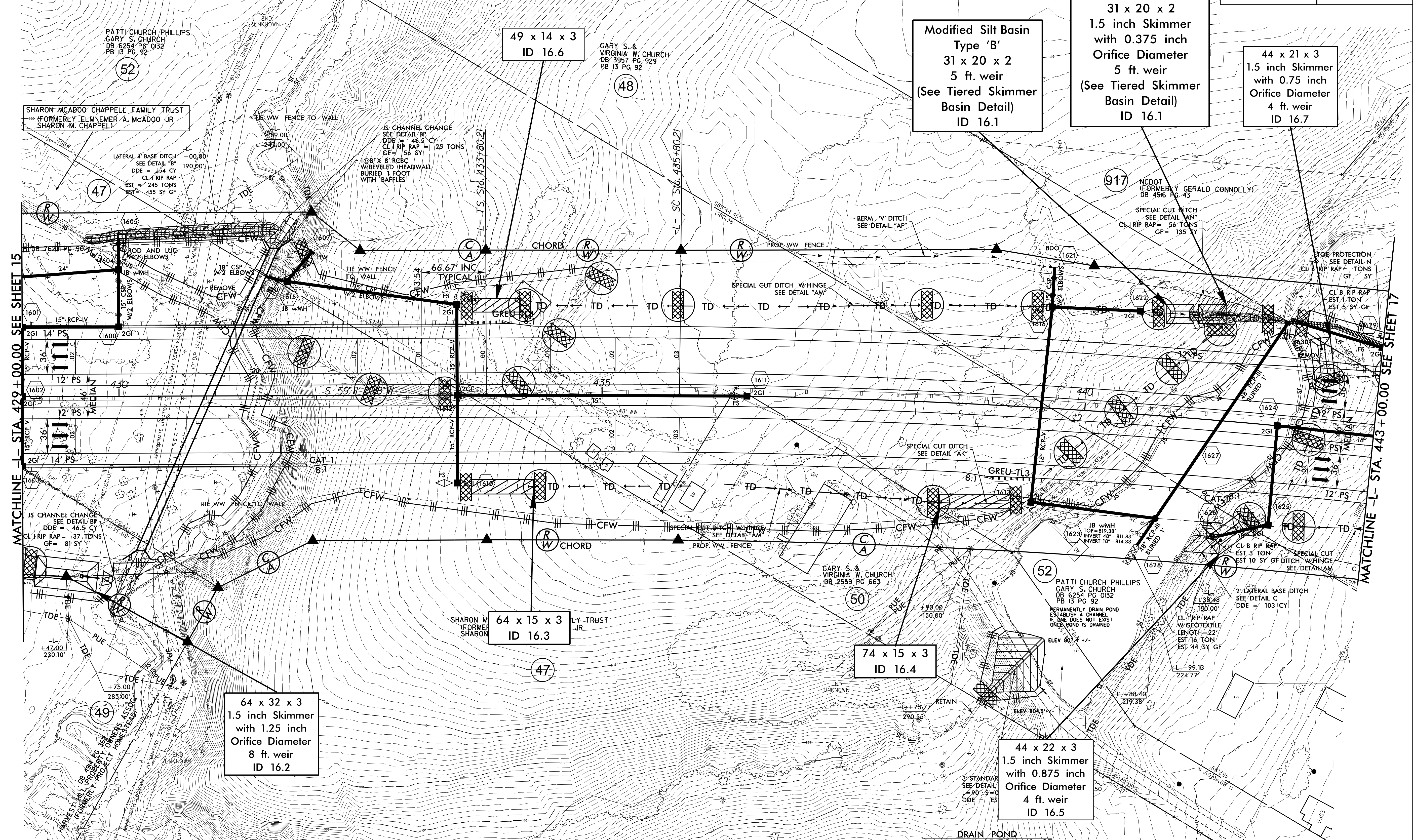
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 16

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.

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Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-18/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE - STA 429+00.00 SEE SHEET 15

MATCHLINE - STA 443+00.00 SEE SHEET 17

8.17.799

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

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.

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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-18/CONST.16
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEET 39 FOR -L- PROFILE
SEE SHEETS C-1 THRU C-7 FOR CULVERT PLANS

8.17.799

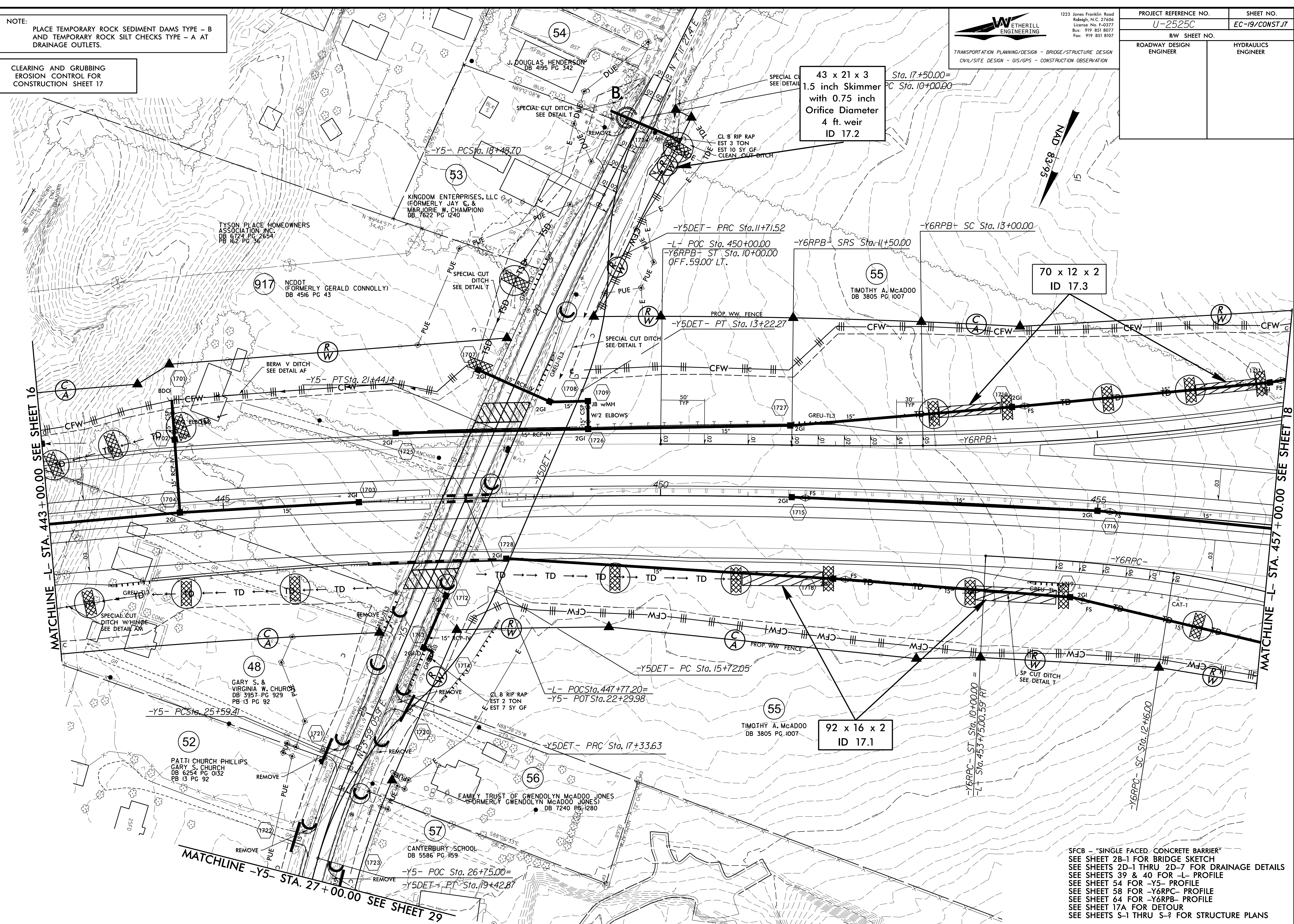
NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 17

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 Raleigh, N.C. 27606
 License No. F-3077
 Bus: 919 851 8077
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TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

PROJECT REFERENCE NO. U-2525C	SHEET NO. EC-19/CONST.17
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



43 x 21 x 3
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
ID 17.2

70 x 12 x 2
ID 17.3

92 x 16 x 2
ID 17.1

MATCHLINE -L- STA. 443+00.00 SEE SHEET 16

MATCHLINE -L- STA. 457+00.00 SEE SHEET 18

MATCHLINE -Y5- STA. 27+00.00 SEE SHEET 29

SFCB - "SINGLE FACED CONCRETE BARRIER"
SEE SHEET 2B-1 FOR BRIDGE SKETCH
SEE SHEETS 2D-1 THRU 2D-7 FOR DRAINAGE DETAILS
SEE SHEETS 39 & 40 FOR -L- PROFILE
SEE SHEET 54 FOR -Y5- PROFILE
SEE SHEET 58 FOR -Y6RPC- PROFILE
SEE SHEET 64 FOR -Y6RPB- PROFILE
SEE SHEET 17A FOR DETOUR
SEE SHEETS S-1 THRU S-2 FOR STRUCTURE PLANS