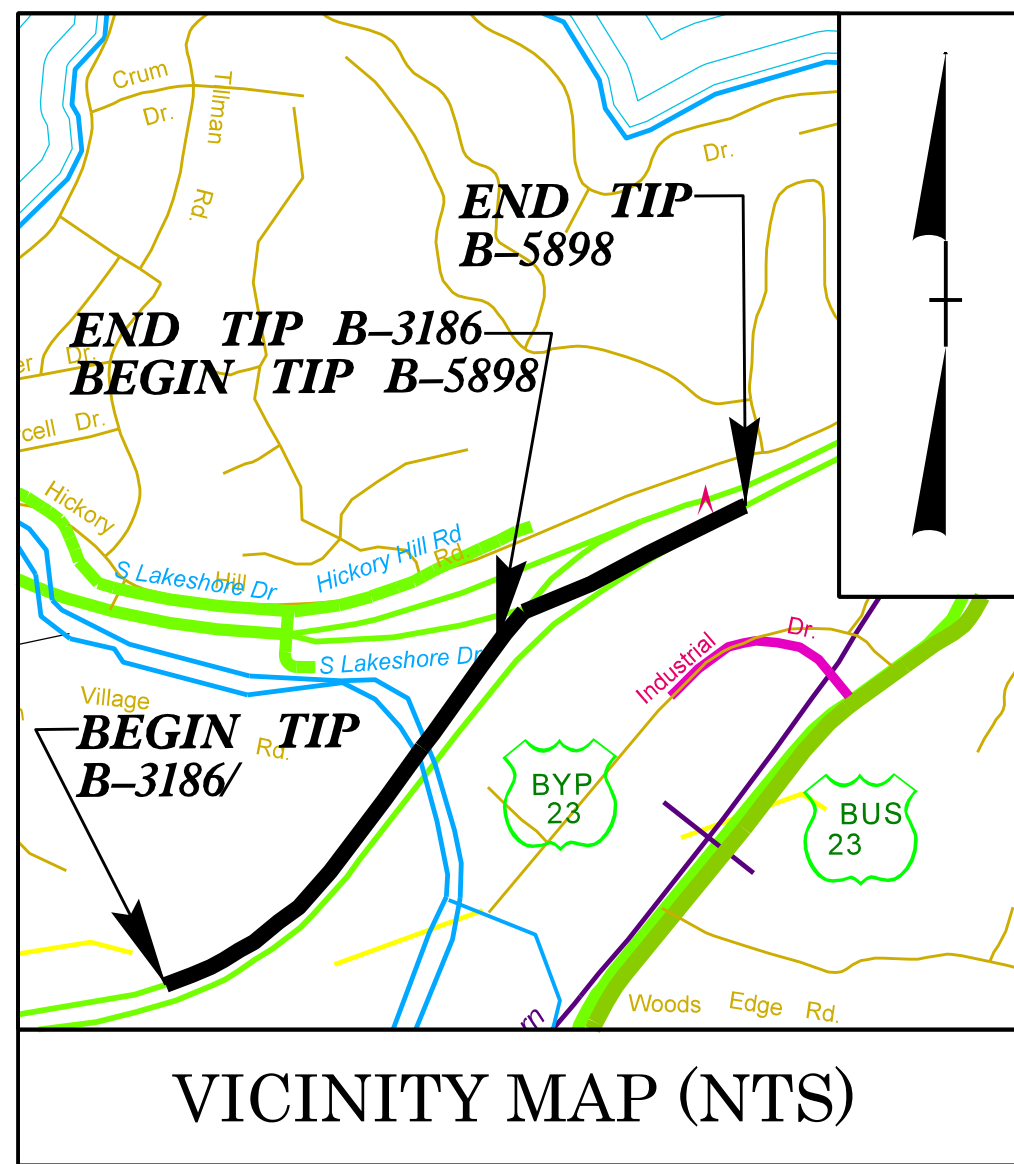


CONTRACT: C204684 TIP PROJECT: B-3186 / B-5898

See Sheet 1A For Index of Sheets



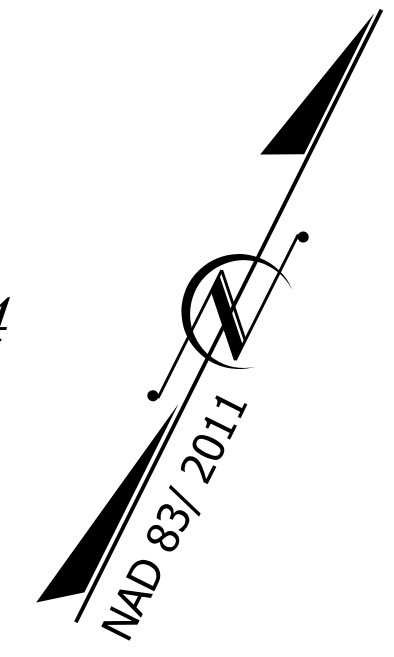
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PLANS FOR PROPOSED HIGHWAY EROSION CONTROL

HAYWOOD COUNTY

LOCATION: *B-3186, BRIDGES 430155 AND 430158 OVER RICHLAND CREEK ON US 23/74*
B-5898, BRIDGE 430168 OVER US 19/23 ON US 23/74

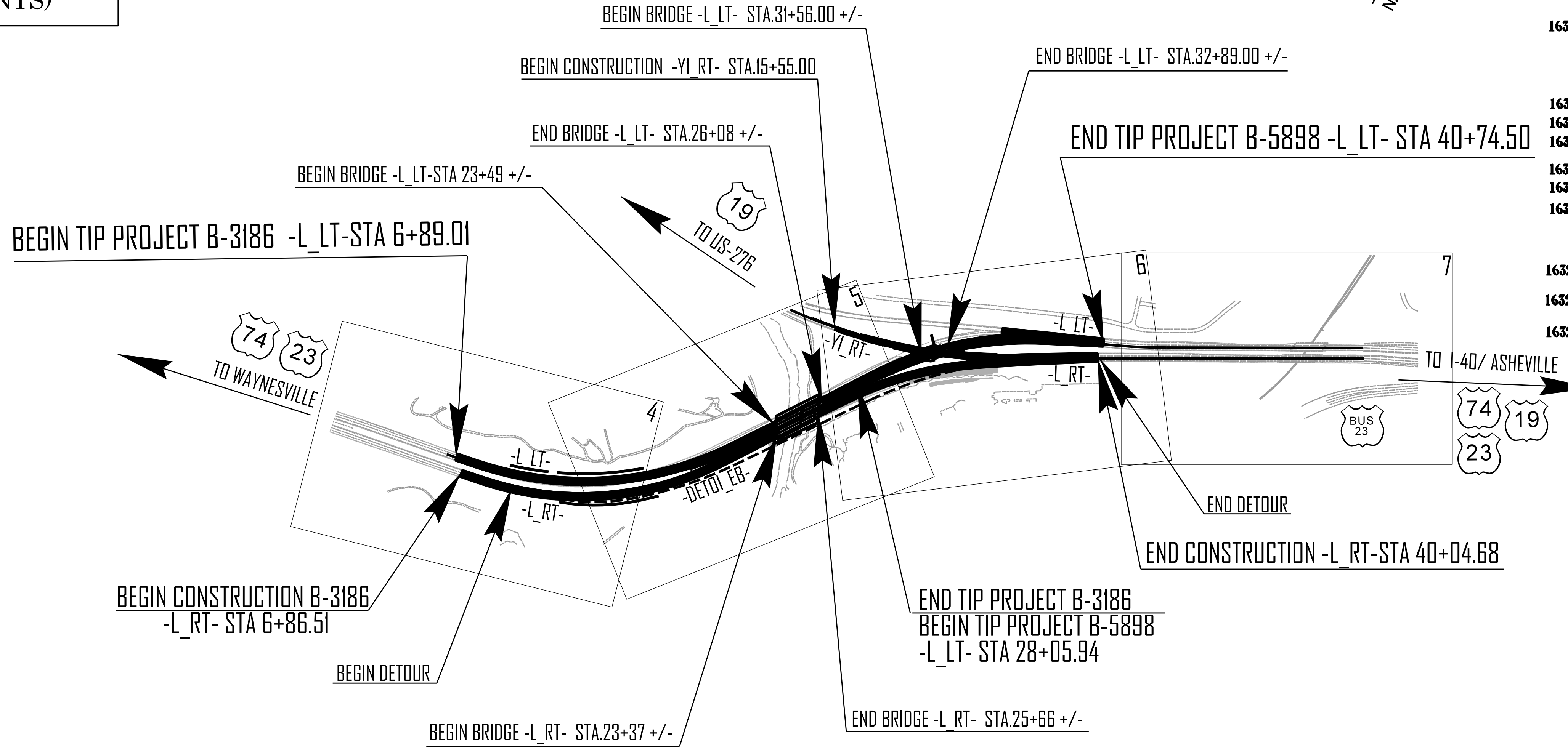
TYPE OF WORK: *GRADING, DRAINAGE, PAVING, AND STRUCTURES*



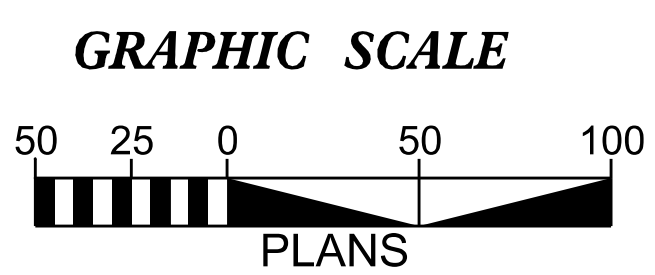
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3186/ B-5898	EC-11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION	
38332.1.FS1 (B-3186)	BRNHP-0023(32)	P.E.	
48030.1.FS1 (B-5898)	BRSTP-0019(49)	P.E.	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	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.



THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY WITH THE APPLICABLE REGULATIONS SET FORTH BY THE NCG-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE APRIL 1, 2019 AND ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER RESOURCES.



Prepared in the Office of:
AECOM
Firm License No. F-0342
5438 Wade Park Boulevard, Suite 200
Raleigh NC 27607
+1-919-460-6200

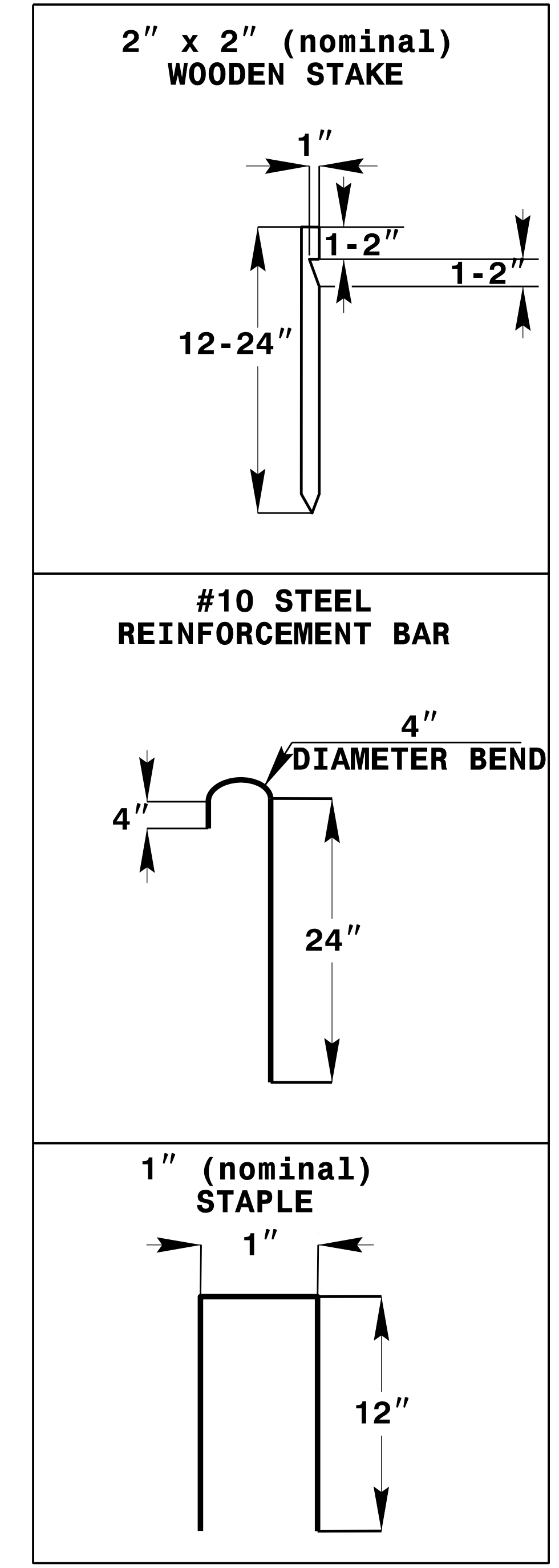
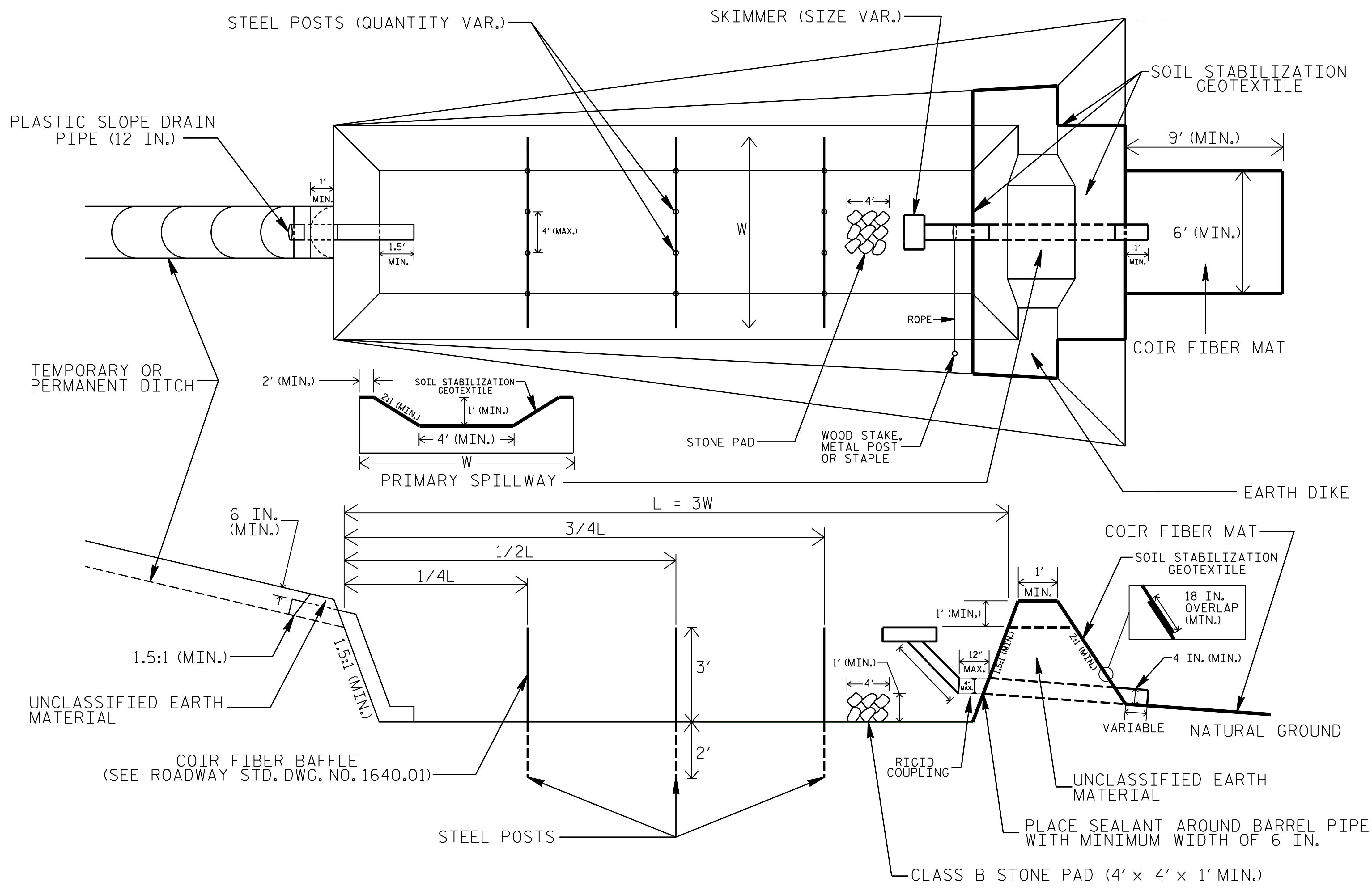
Designed by:
RENE REMY, CPESC, CPSWQ 3125
NAME LEVEL III CERTIFICATION NO.

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	

SKIMMER BASIN WITH BAFFLES DETAIL



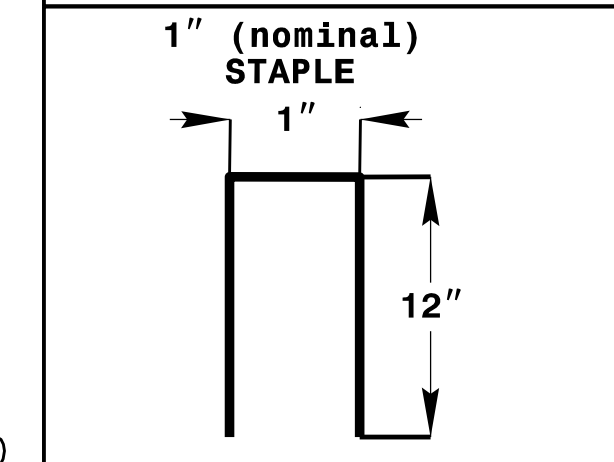
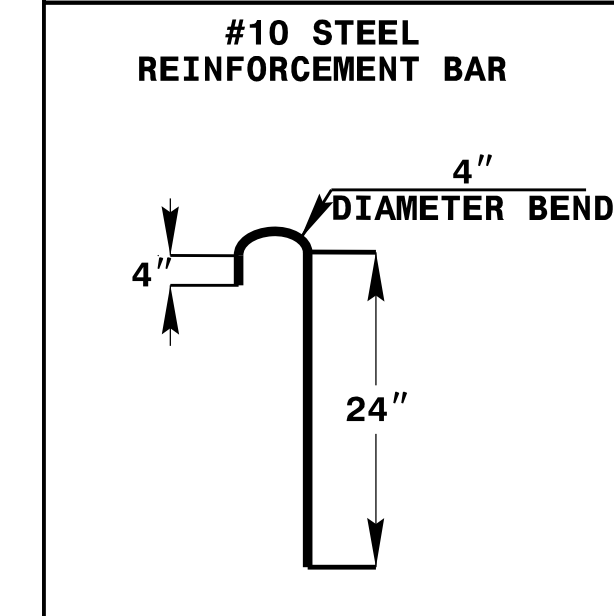
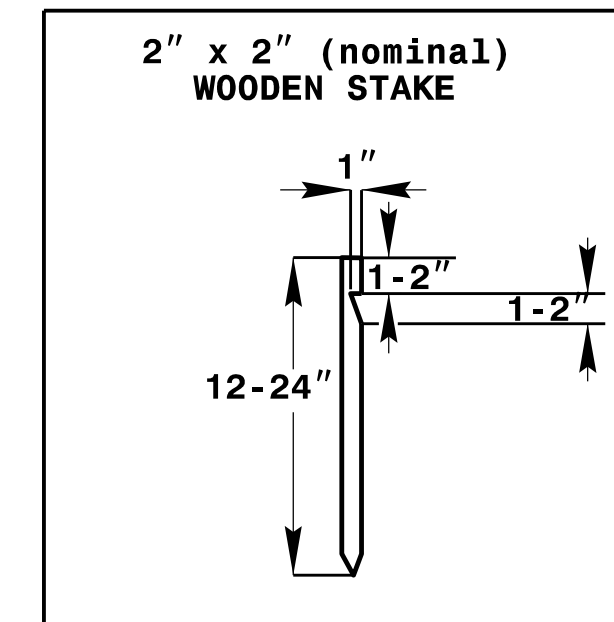
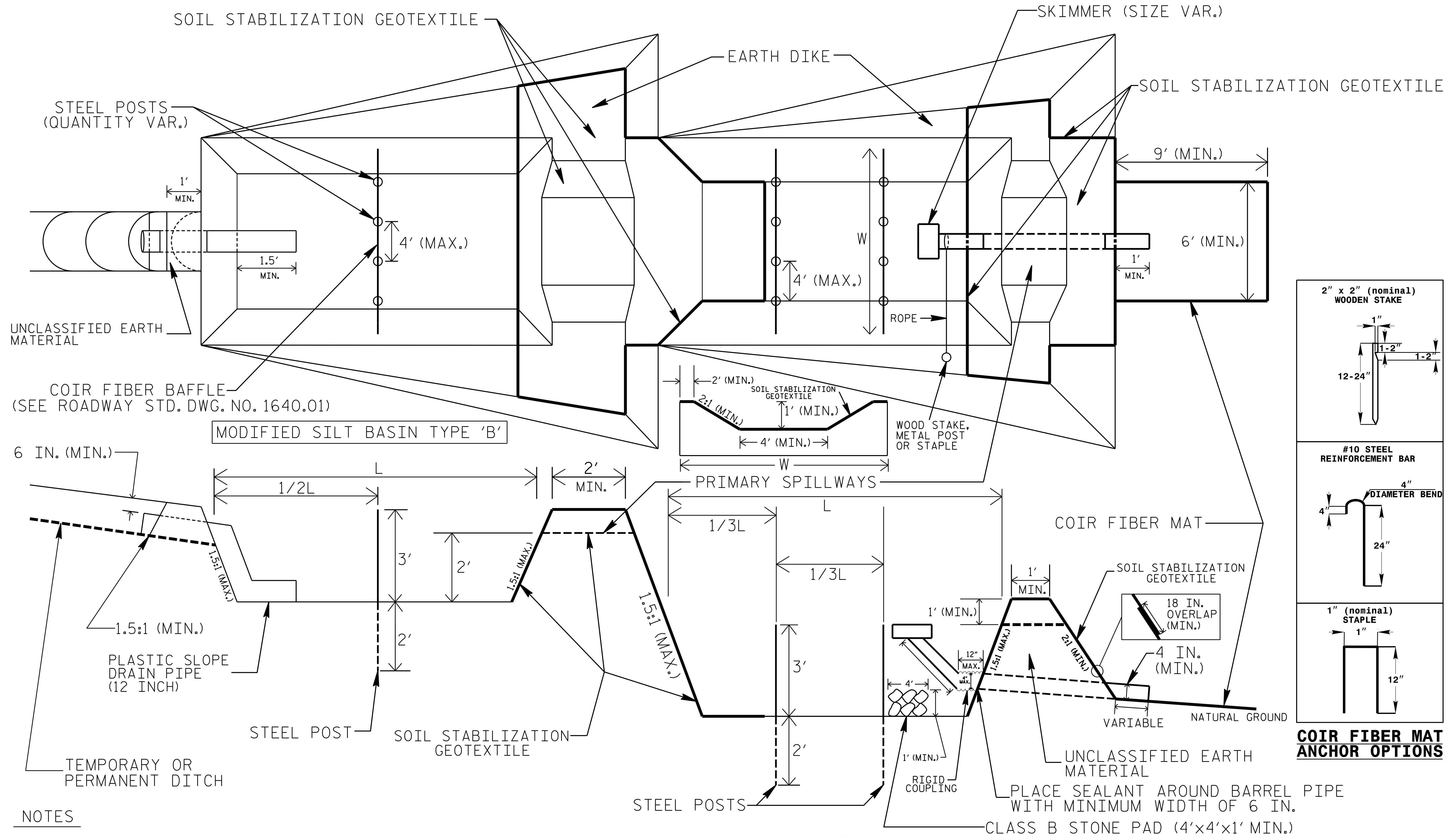
COIR FIBER MAT ANCHOR OPTIONS

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



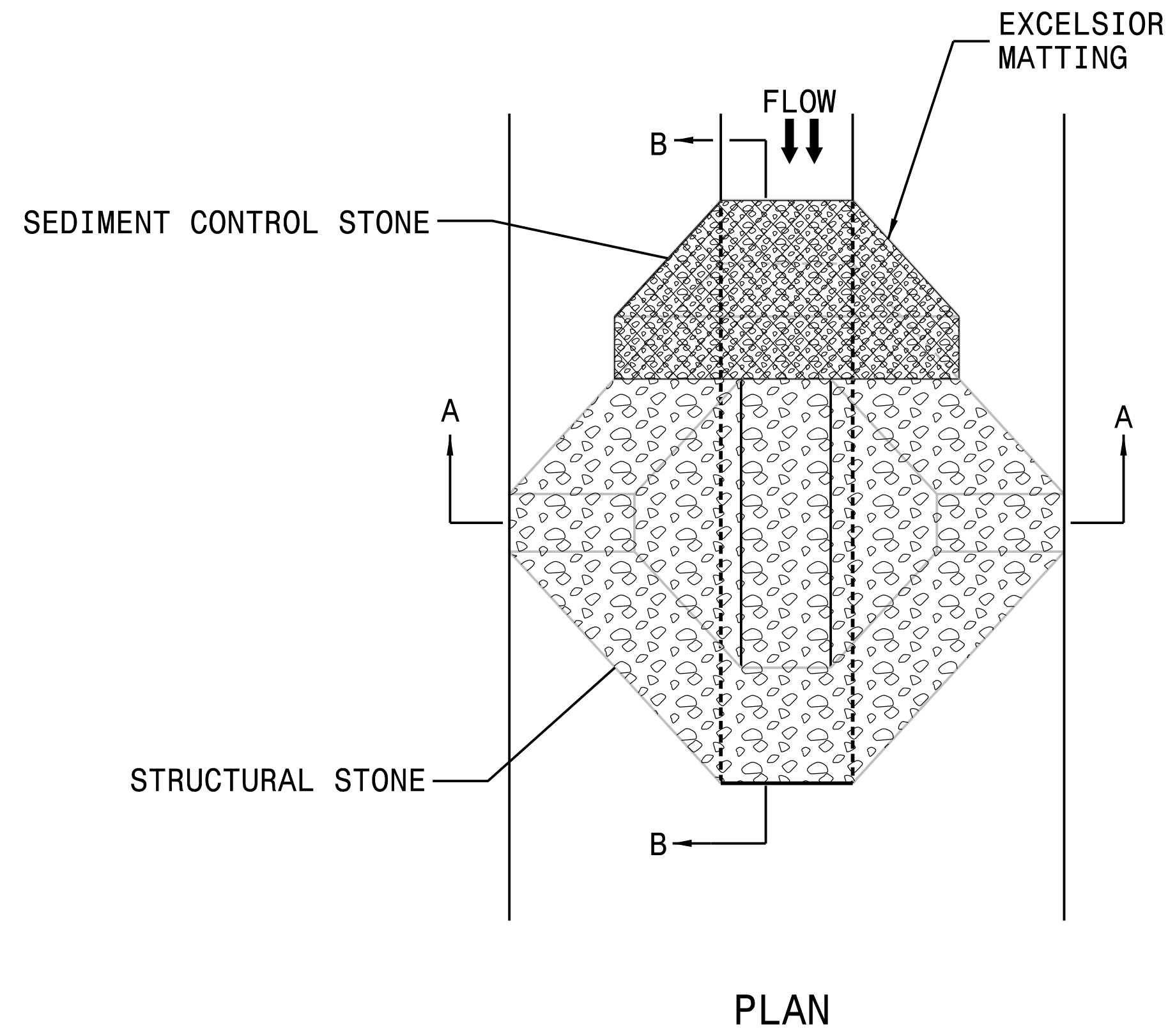
COIR FIBER MAT ANCHOR OPTIONS

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

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



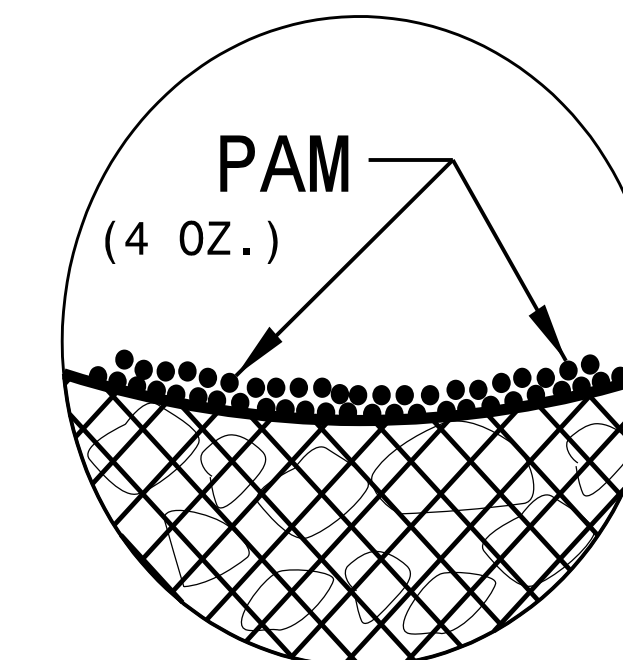
NOTES:

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

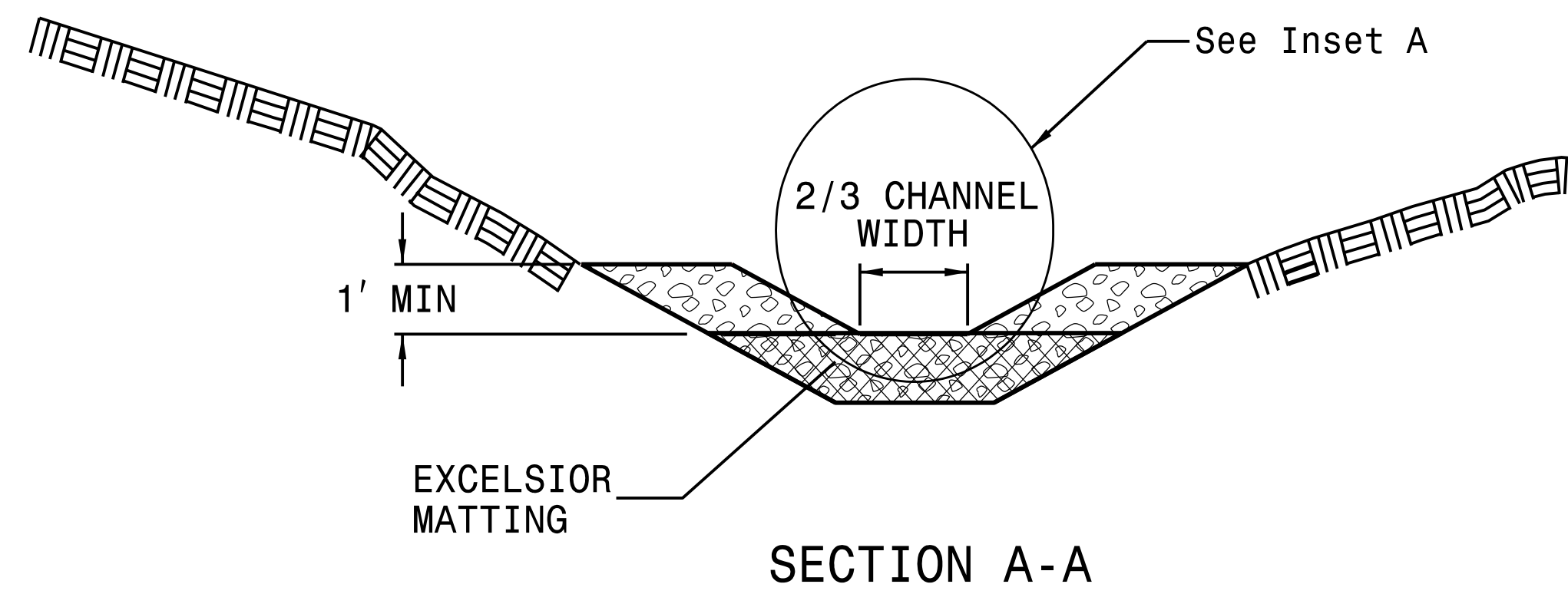
USE EXCELSIOR FOR MATTING MATERIAL AND ANCHOR MATTING SECTION AT TOP AND BOTTOM WITH CLASS B STONE.

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.

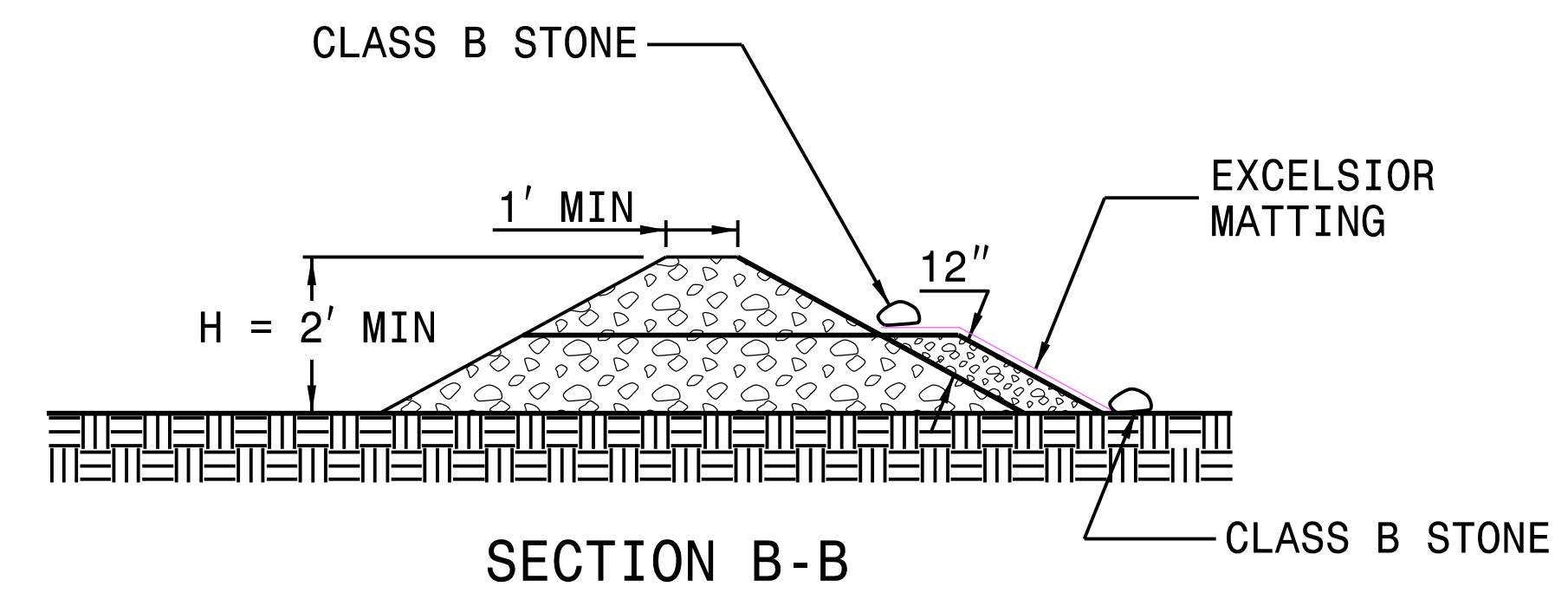
INITIALLY APPLY 4 OUNCES OF POLYACRYLAMIDE (PAM) TO TOP OF MATTING SECTION AND AFTER EVERY RAINFALL EVENT THAT EQUALS OR EXCEEDS 0.50 INCHES.



INSET A



SECTION A-A



SECTION B-B

NOT TO SCALE

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.

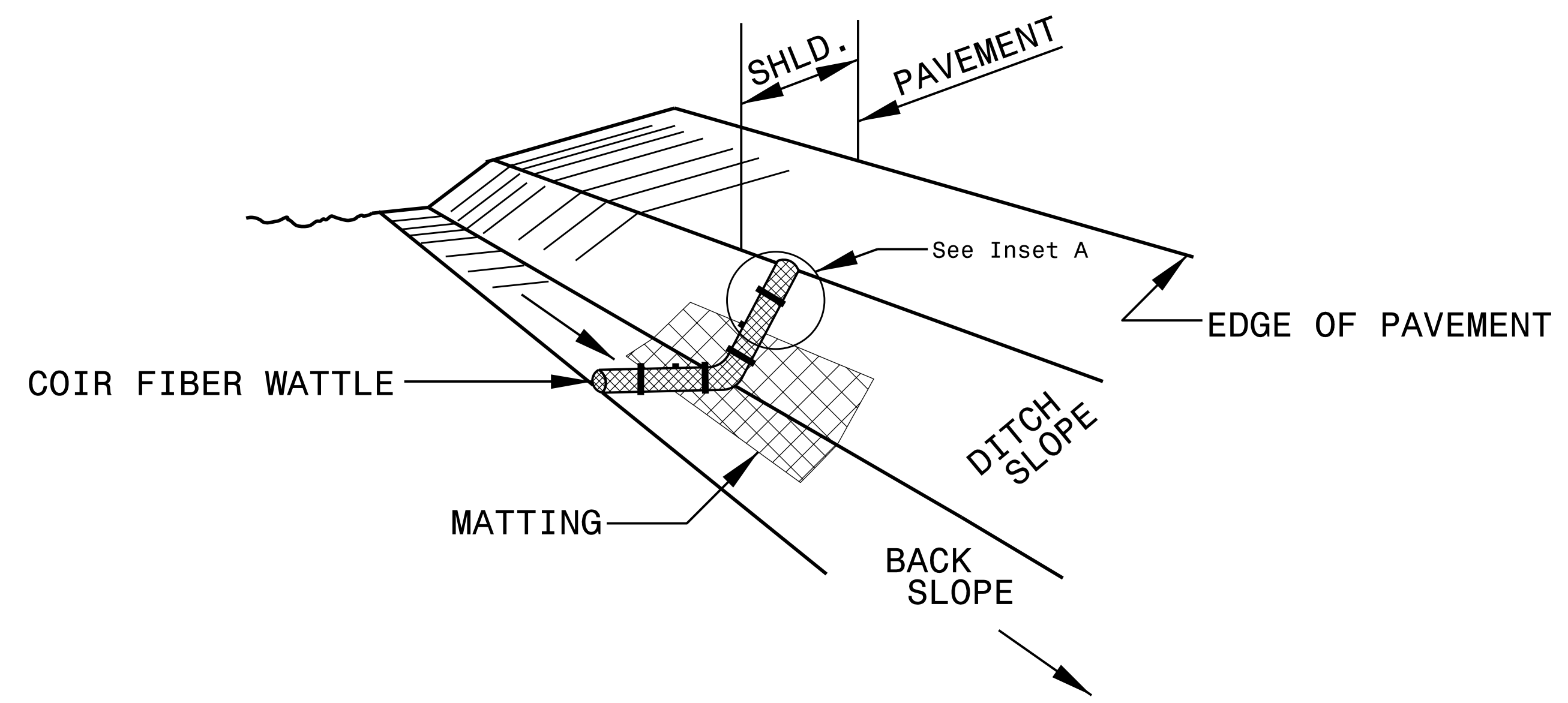
PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.

INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.

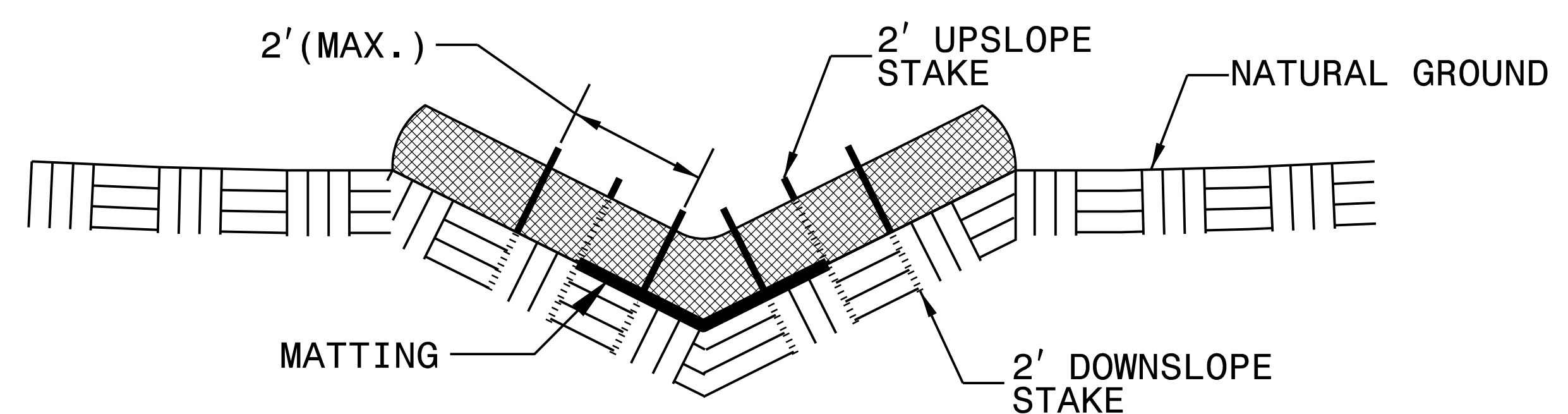
INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.

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.

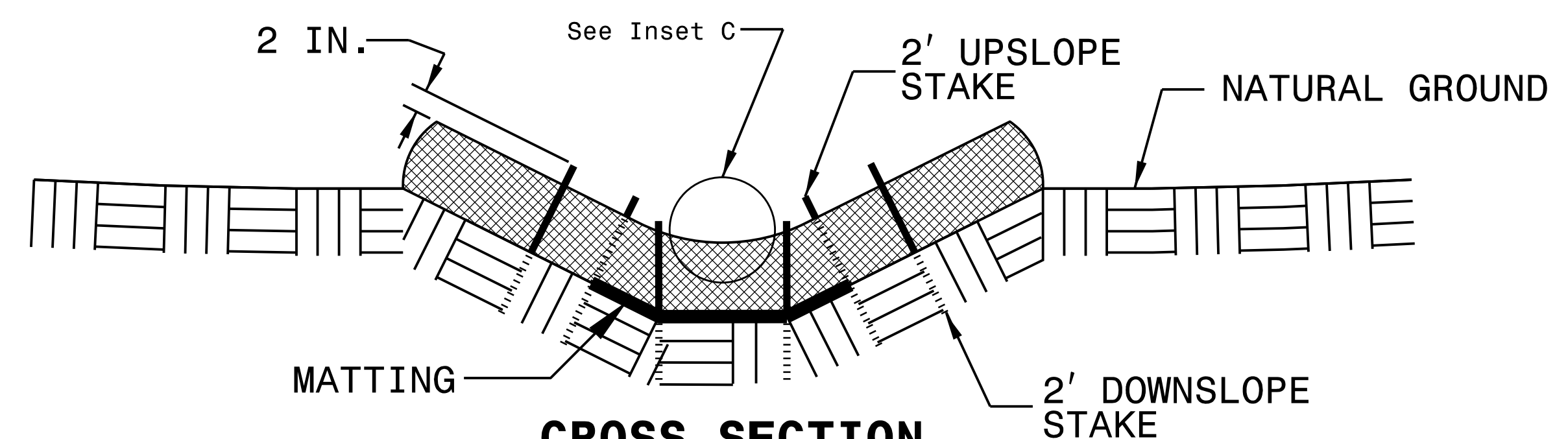
INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



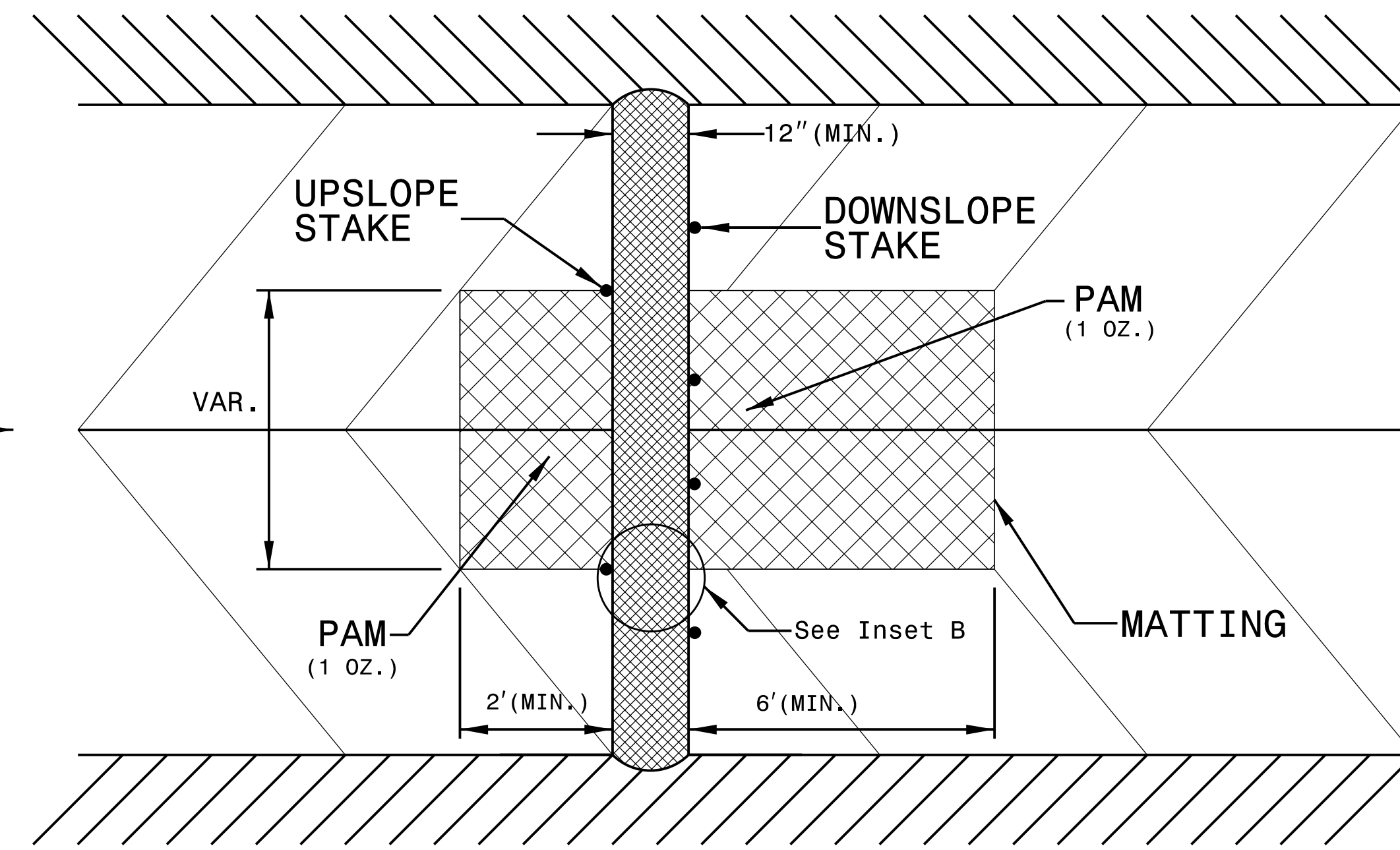
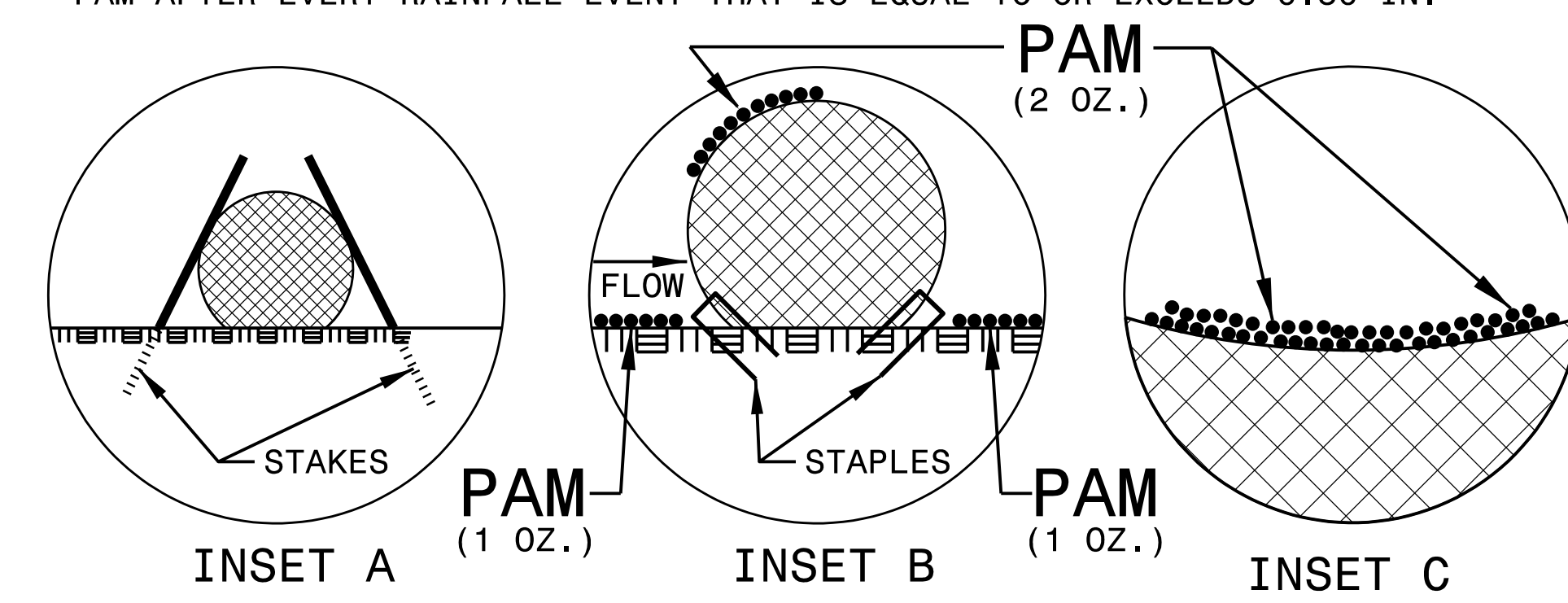
ISOMETRIC VIEW



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH

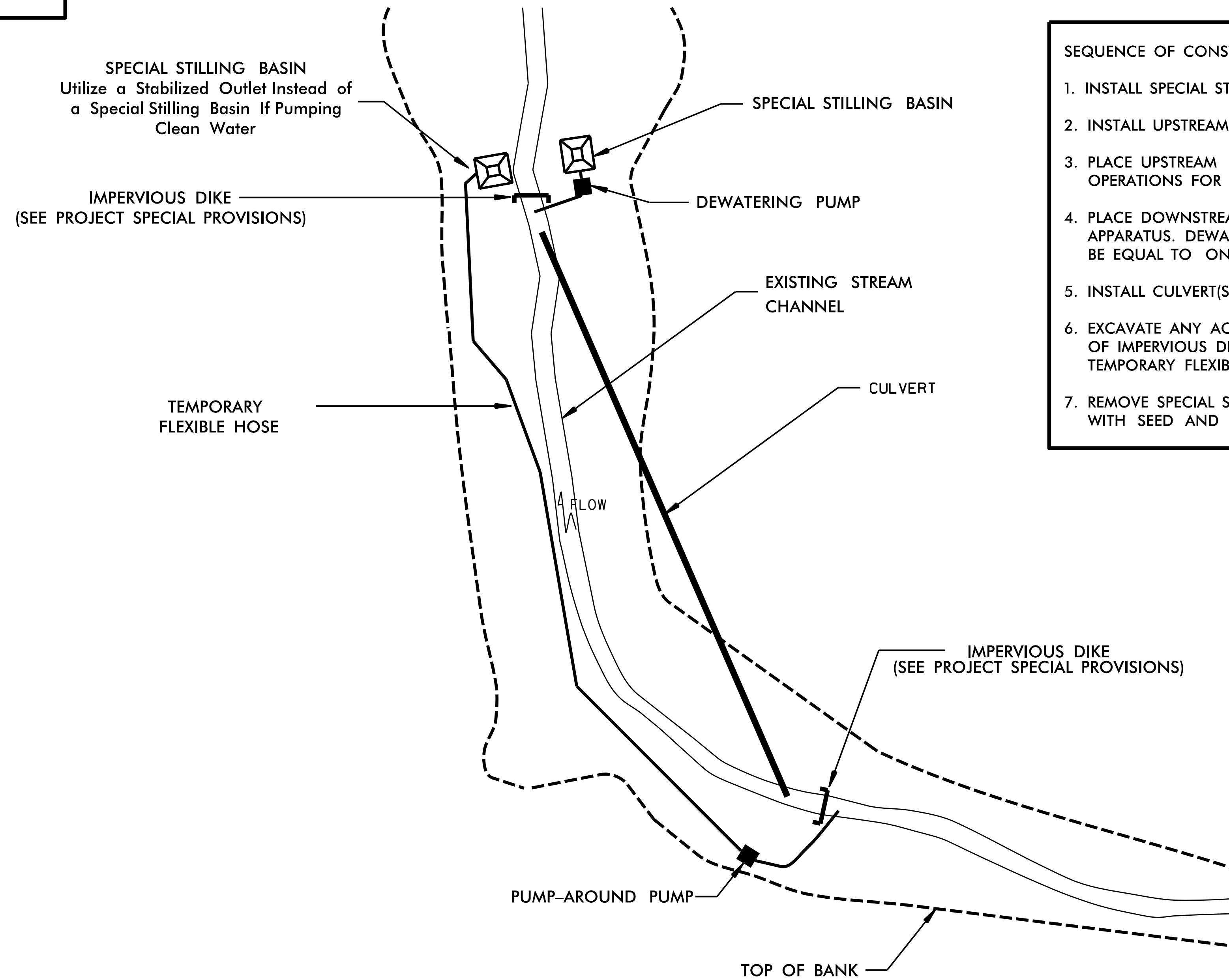


TOP VIEW

PUMP-AROUND OPERATION

NOTES:

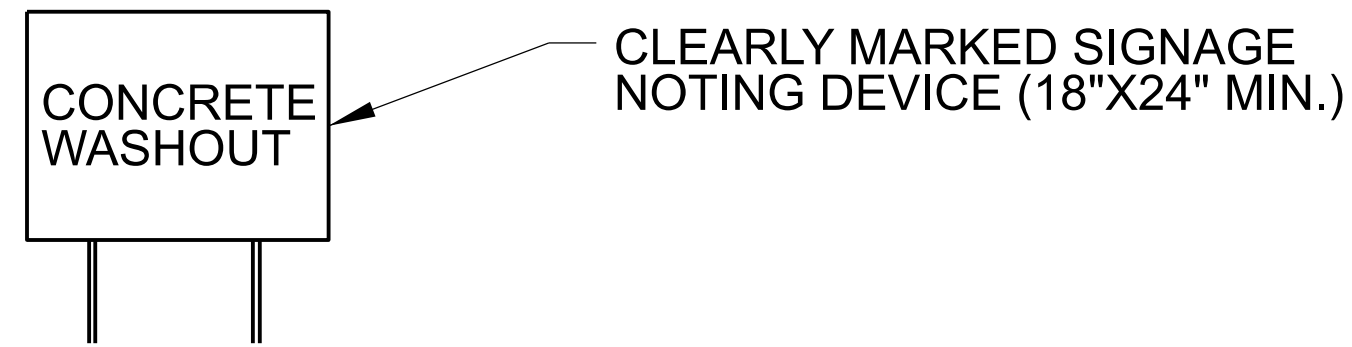
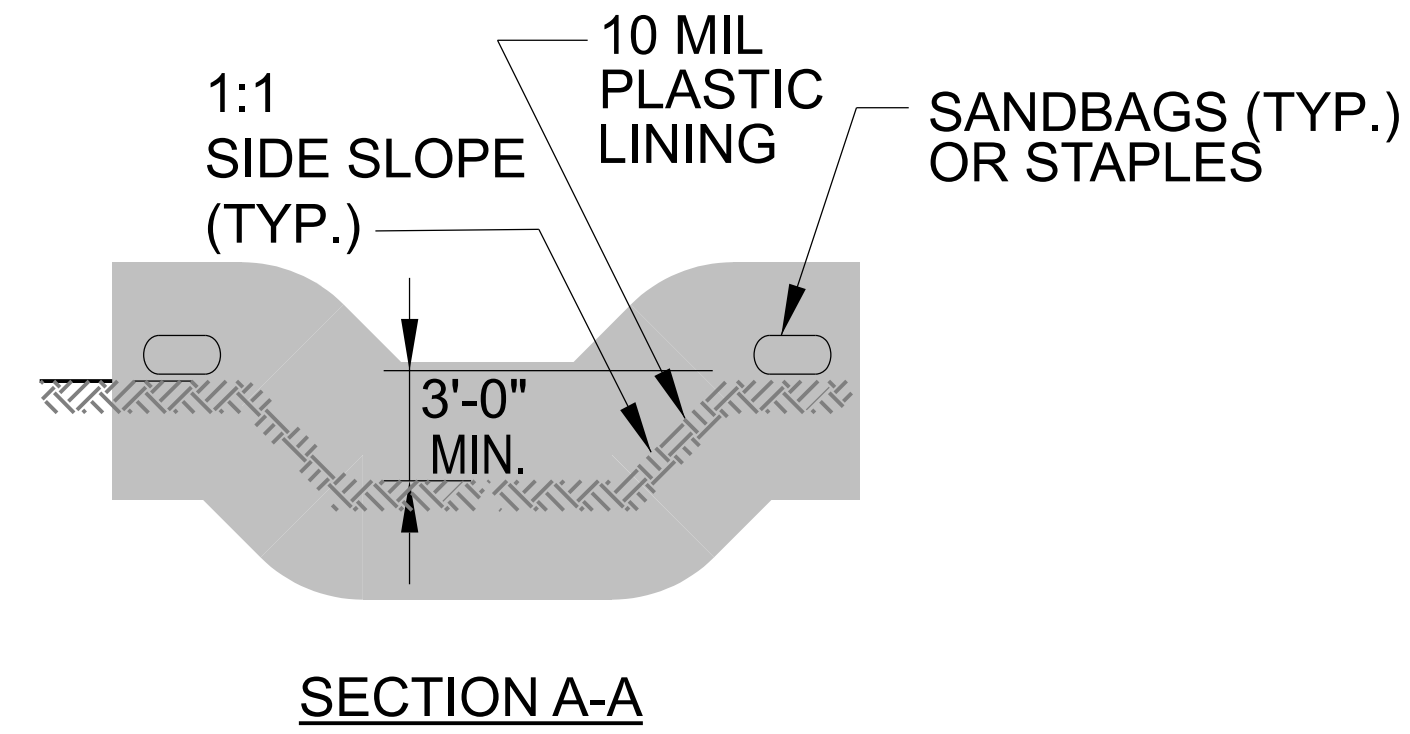
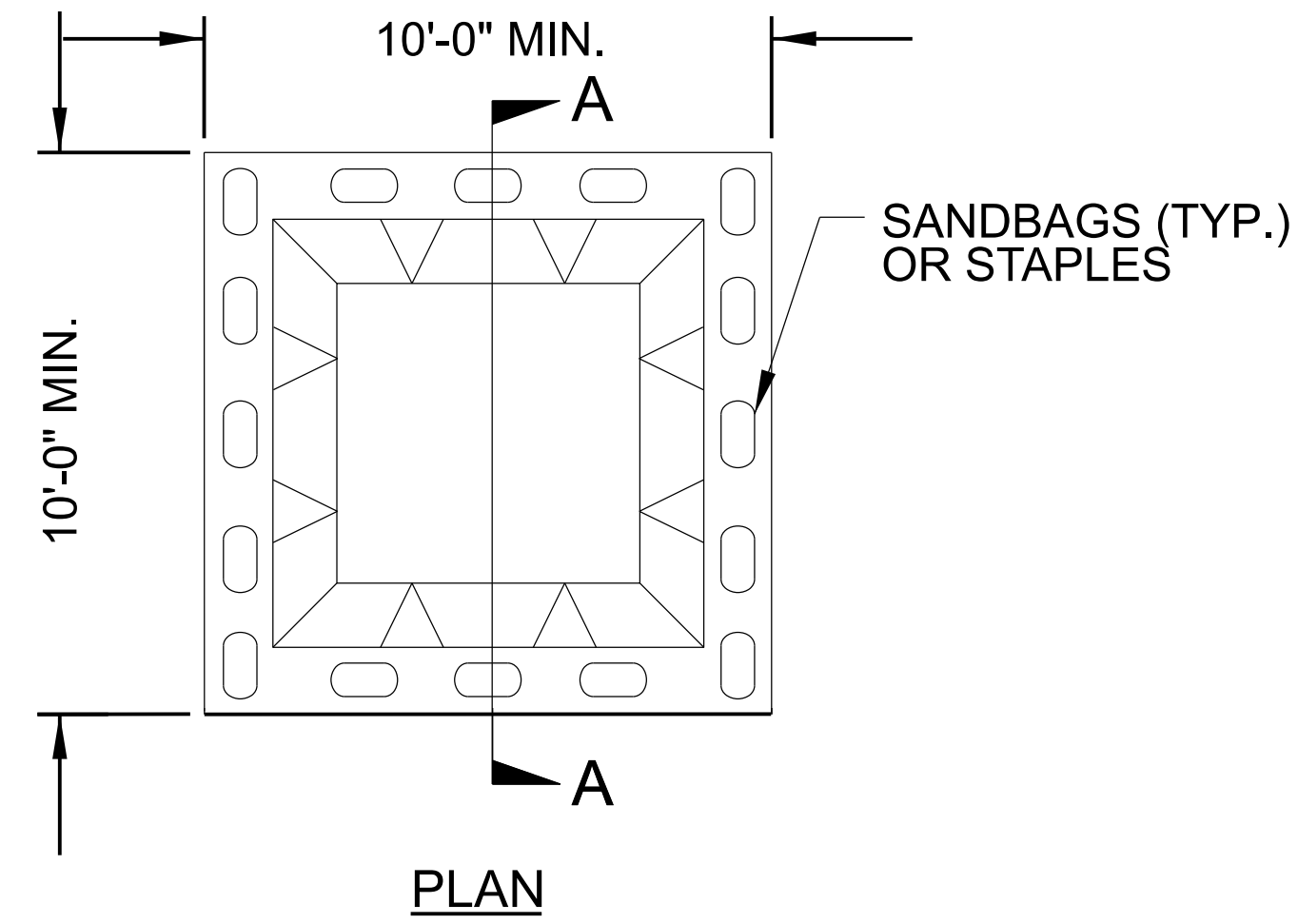
- 1) All excavation shall be performed in only dry or isolated areas of the work zone.
- 2) Impervious dikes are to be used to isolate work from stream flow when necessary.
- 3) Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes,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

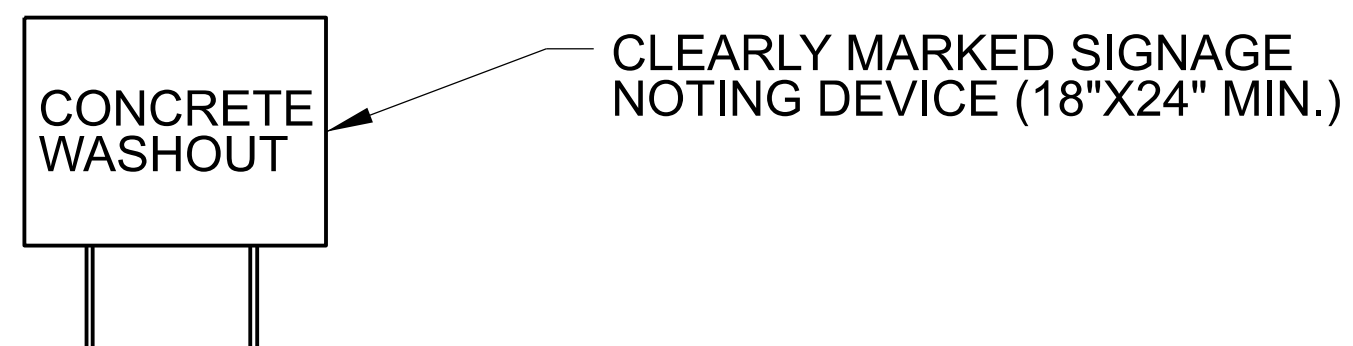
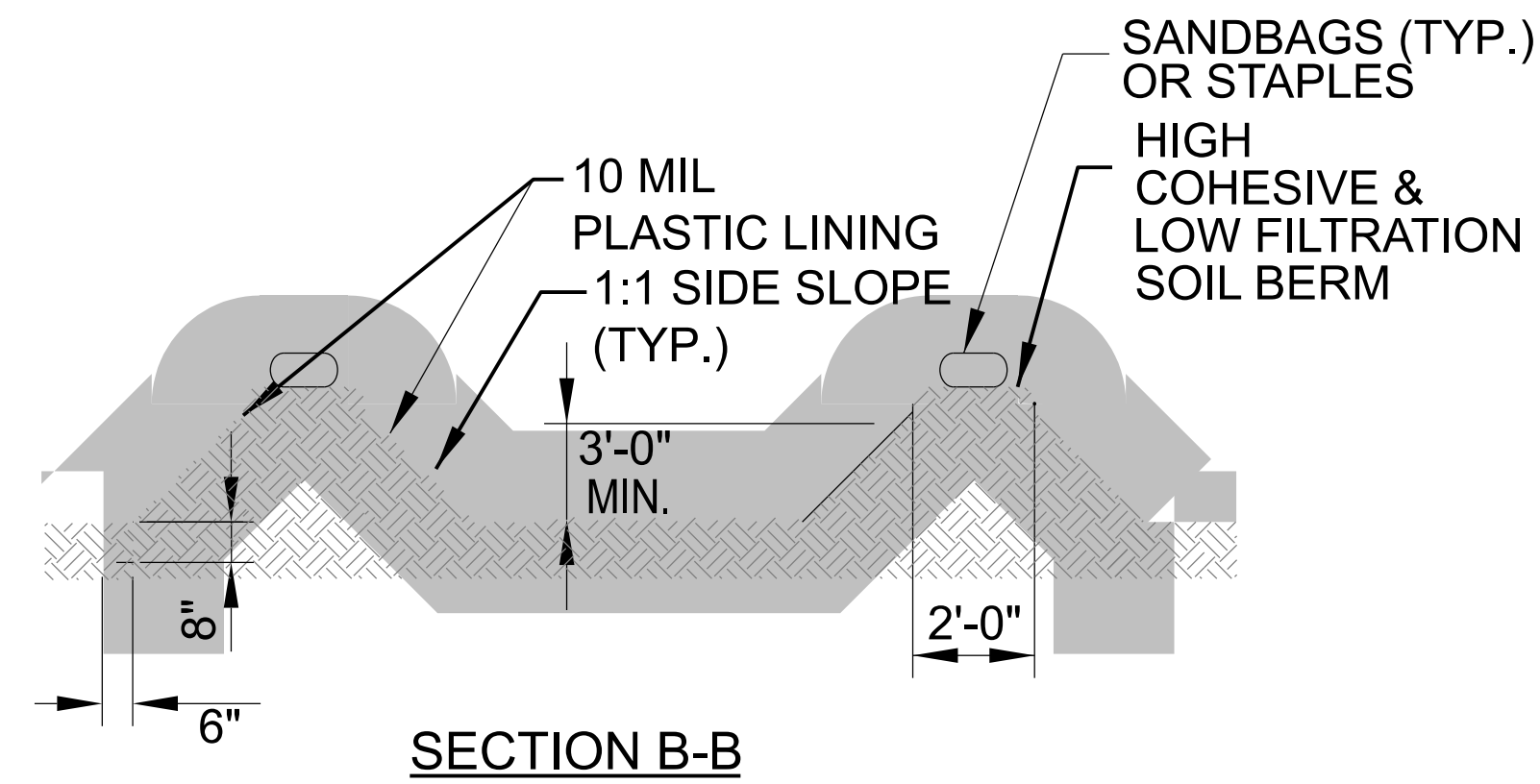
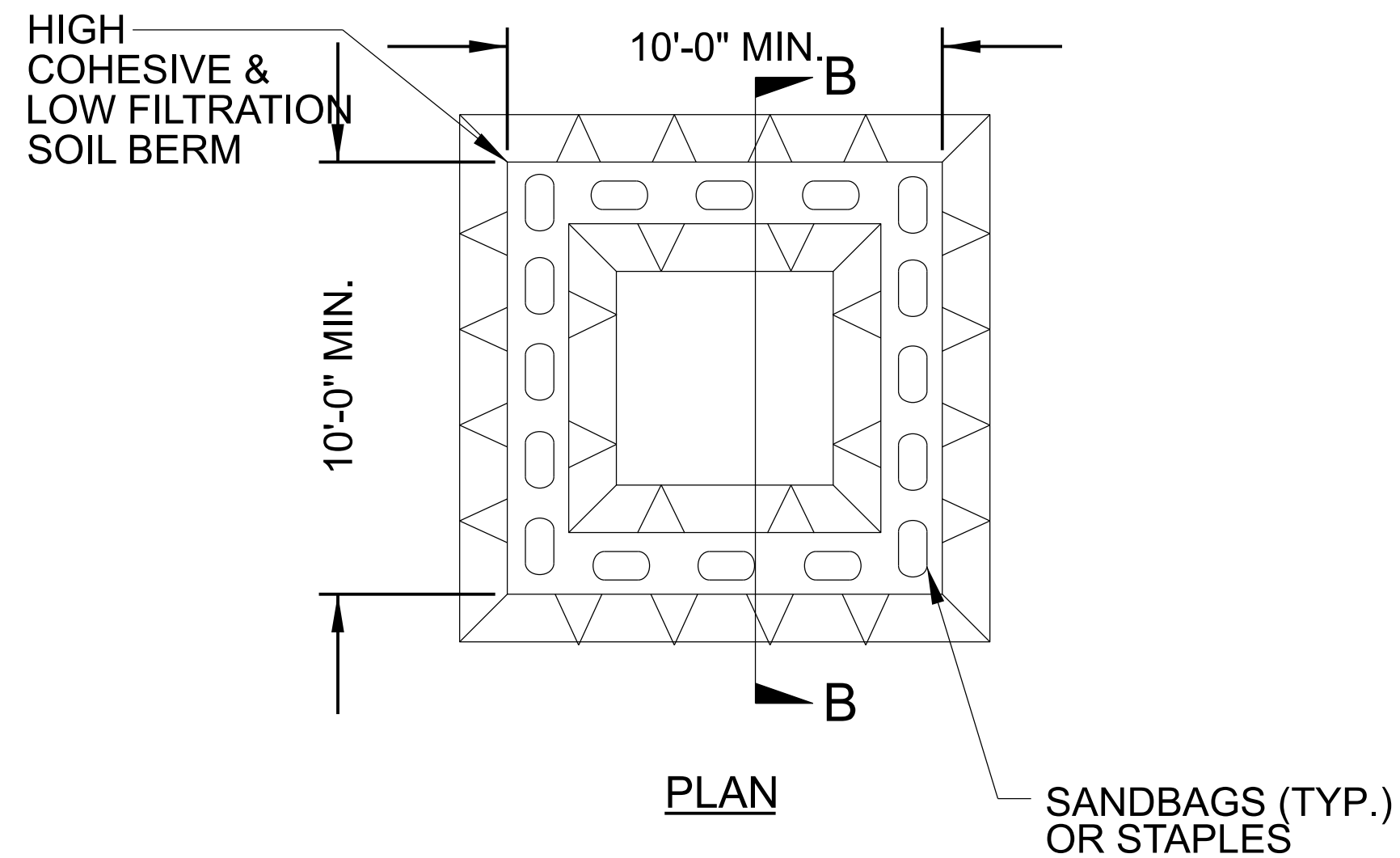
ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



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

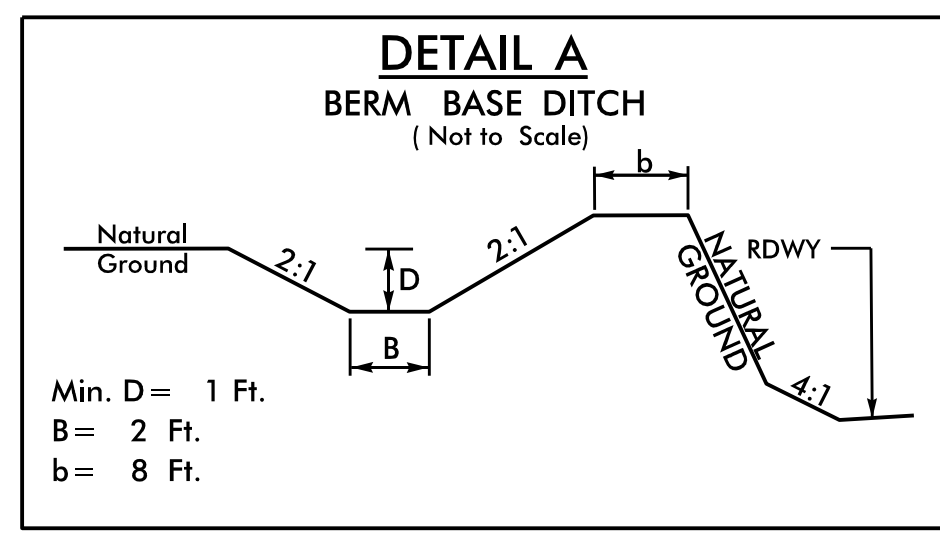
NOTES:

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.

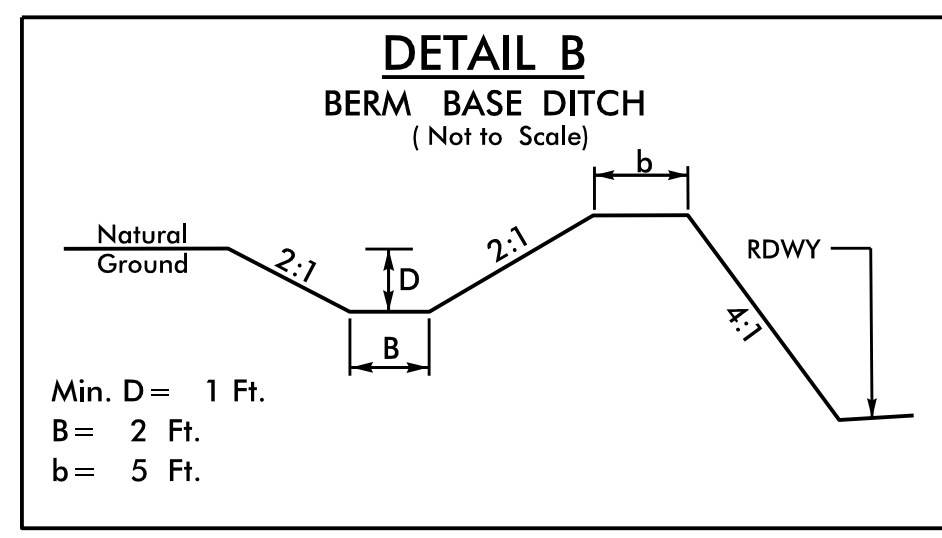
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

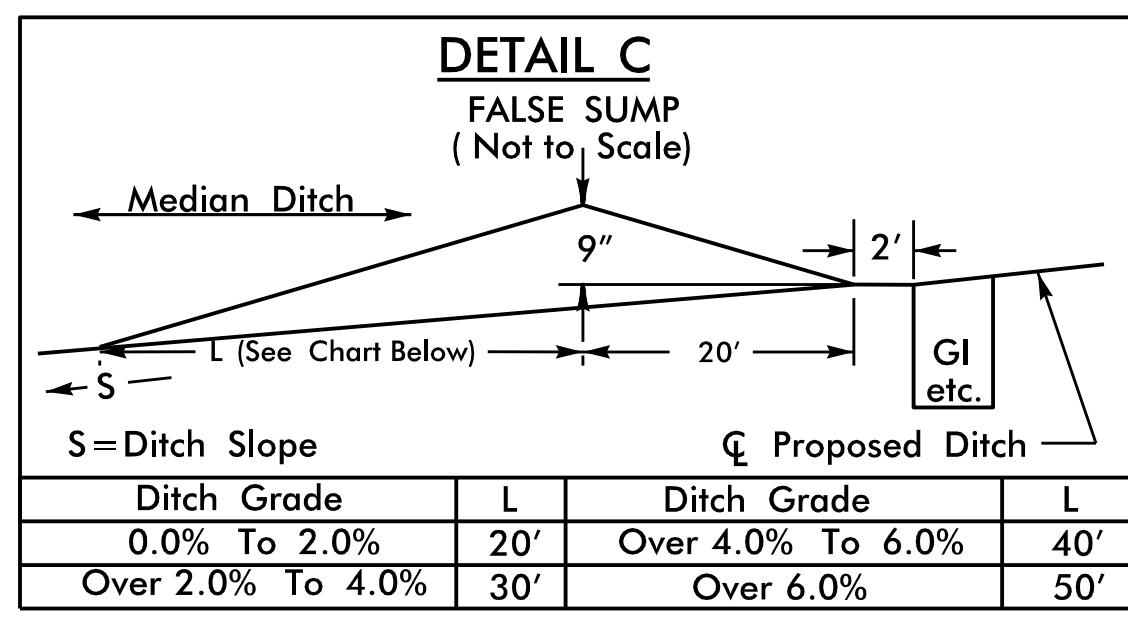
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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



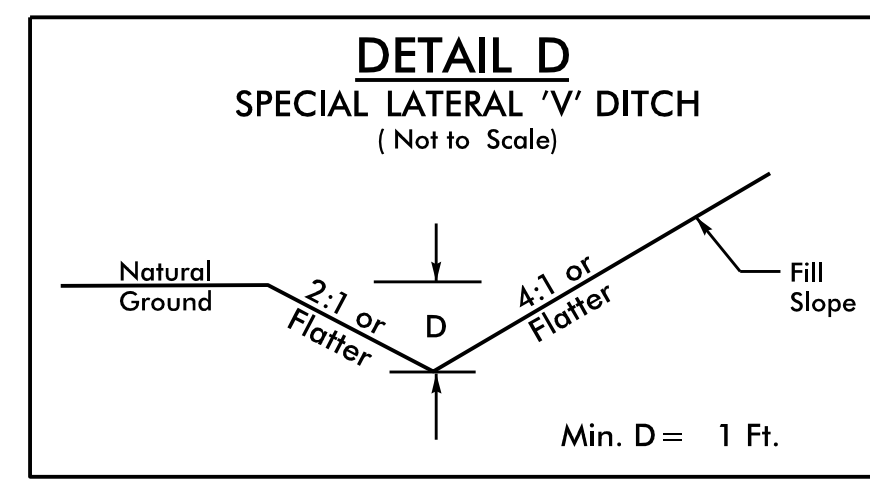
FROM STA. 6+45 TO STA. 6+90 LT -L_LT-
FROM STA. 6+90 TO STA. 7+24 LT -L_LT-



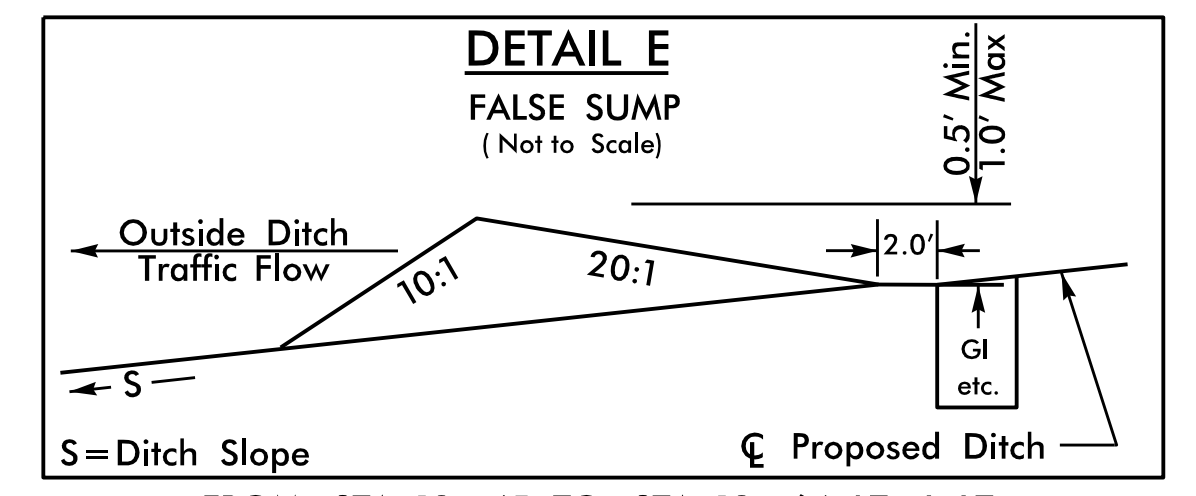
FROM STA. 8+80 TO STA. 9+25 LT -L_LT-
FROM STA. 9+25 TO STA. 9+78 LT -L_LT-



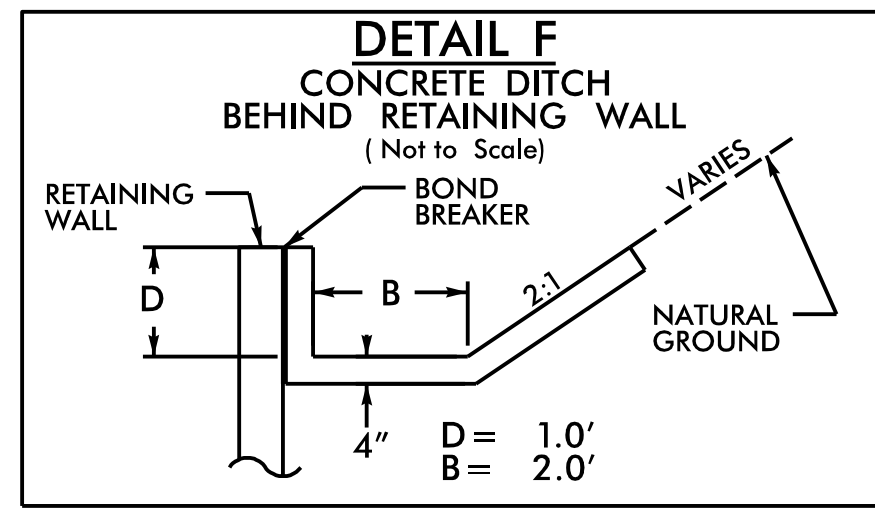
FROM STA. 8+33 TO STA. 8+51 M -L_LT-
FROM STA. 11+74 TO STA. 11+92 M -L_LT-
FROM STA. 17+02 TO STA. 17+19 M -L_LT-
FROM STA. 29+47 TO STA. 29+65 M -L_LT-
FROM STA. 37+38 TO STA. 37+56 M -L_LT-



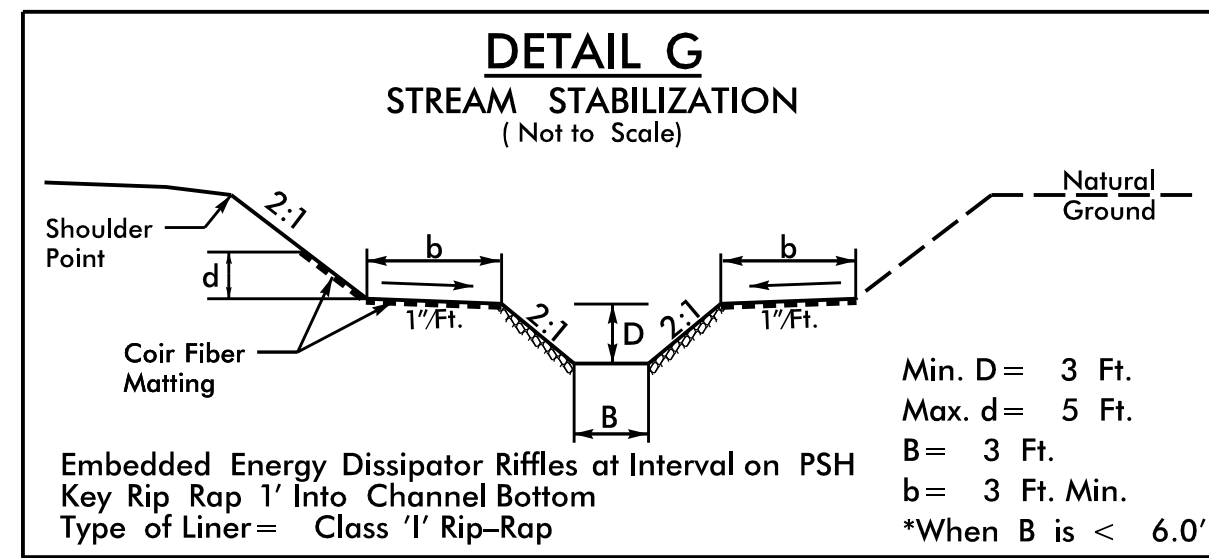
FROM STA. 11+90 TO STA. 16+84 RT -L_RT-



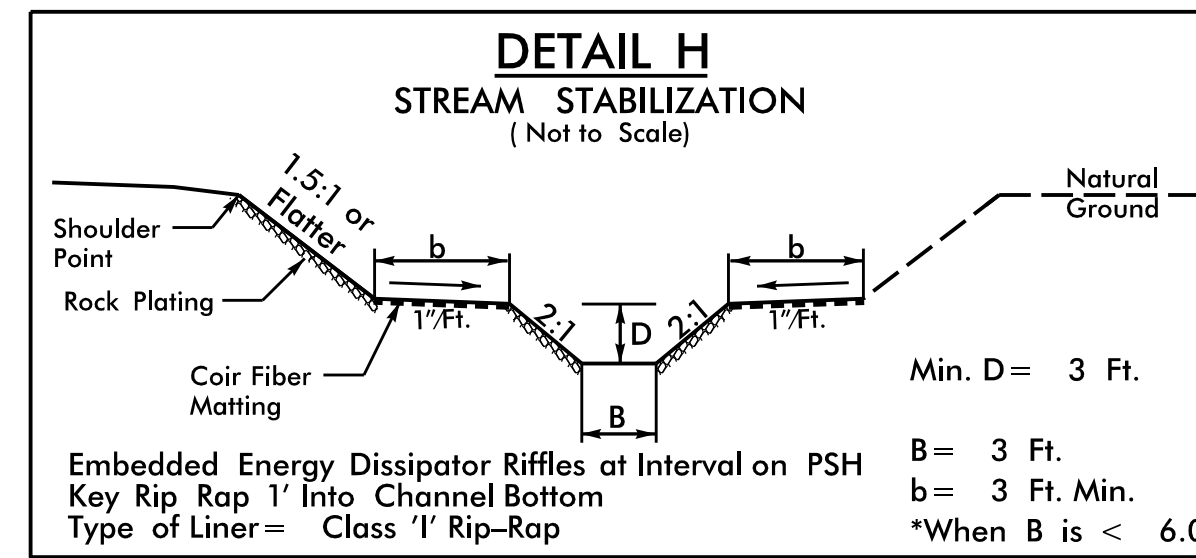
FROM STA. 18+45 TO STA. 18+64 LT -L_LT-
FROM STA. 22+55 TO STA. 22+73 LT -L_LT-



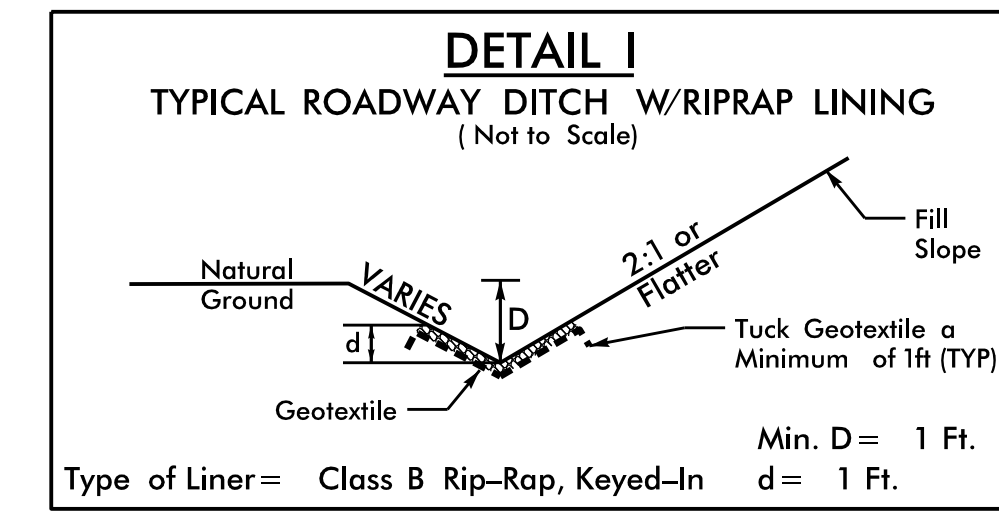
FROM STA. 9+60 TO STA. 10+25 LT -L_LT-
FROM STA. 10+25 TO STA. 11+60 LT -L_LT-
FROM STA. 12+05 TO STA. 12+47 LT -L_LT-
FROM STA. 12+47 TO STA. 16+49 LT -L_LT-
FROM STA. 11+90 TO STA. 12+63 RT -L_RT-
FROM STA. 12+63 TO STA. 13+60 RT -L_RT-
FROM STA. 13+60 TO STA. 14+08 RT -L_RT-
FROM STA. 14+08 TO STA. 16+77 RT -L_RT-
FROM STA. 18+64 TO STA. 19+54 LT -Y1_RT-
FROM STA. 22+09 TO STA. 23+83 LT -Y1_RT-
FROM STA. 20+54 TO STA. 20+68 LT -Y1_RT-



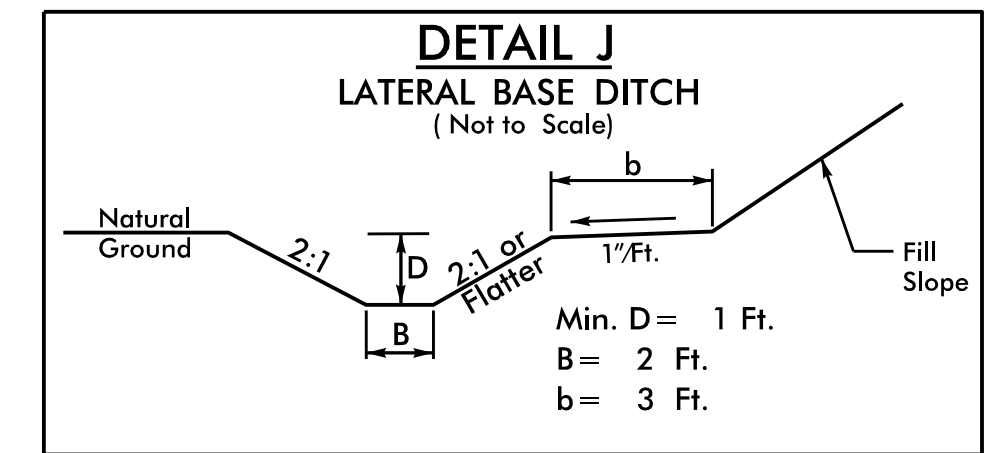
FROM STA. 24+87 TO STA. 30+50 -L_RT
EST. 404 TONS CLASS I RIPRAP; 1,375 SY COIR FIBER MATTING



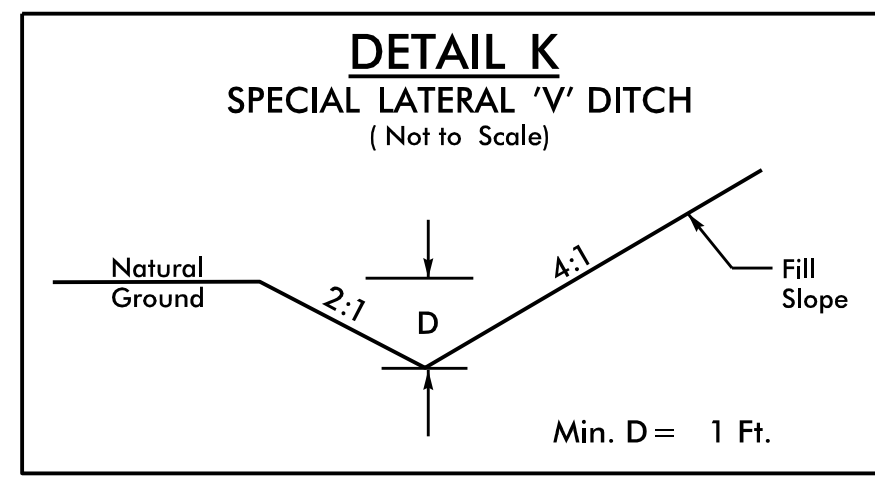
FROM STA. 30+50 TO STA. 31+50 -L_RT
EST. 318 TONS CLASS I RIPRAP; 195 SY COIR FIBER MATTING
SEE ROCK PLATING DETAIL ON SHEET 2G-1



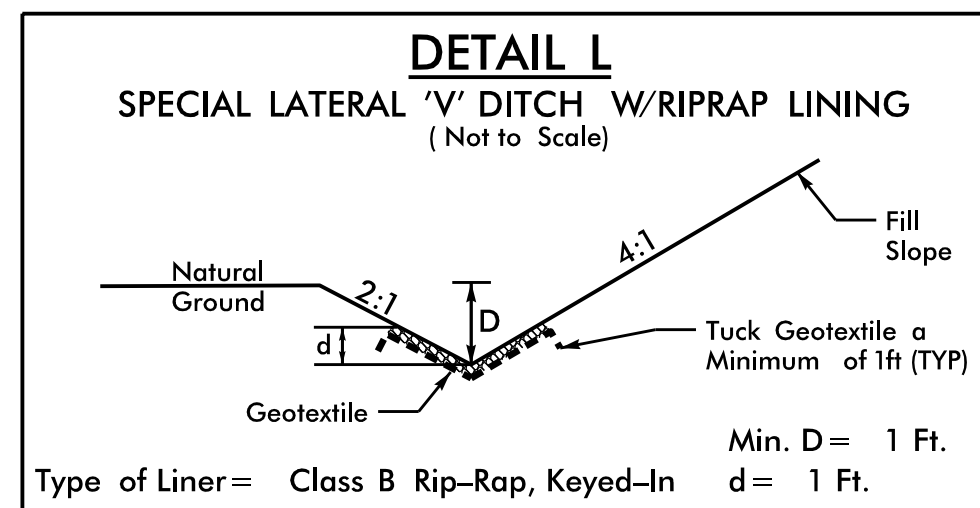
FROM STA. 17+01 TO STA. 17+47 LT -L_LT-



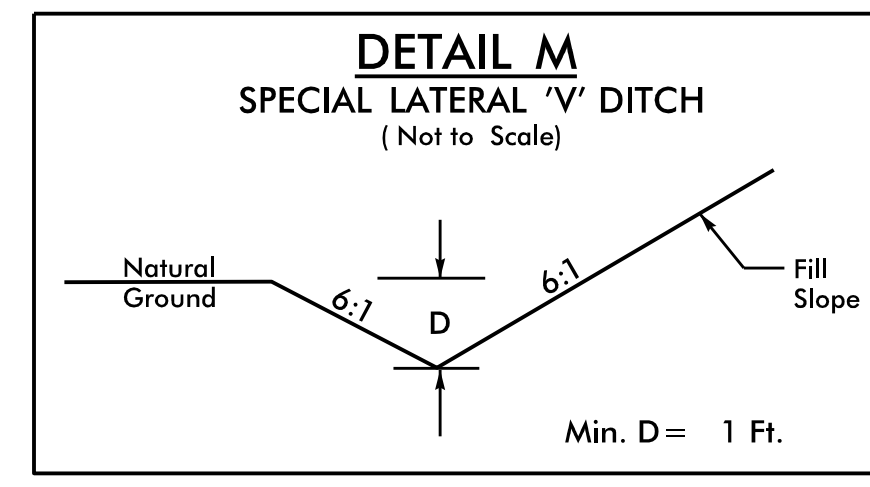
FROM STA. 26+35 TO STA. 28+50 LT -L_LT-



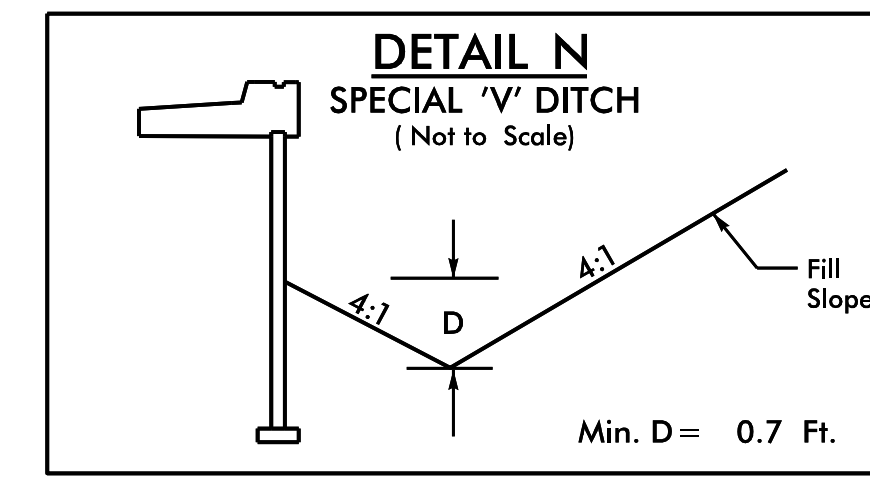
FROM STA. 16+83 TO STA. 19+45 LT -Y1_RT-
FROM STA. 19+80 TO STA. 20+64 LT -Y1_RT-



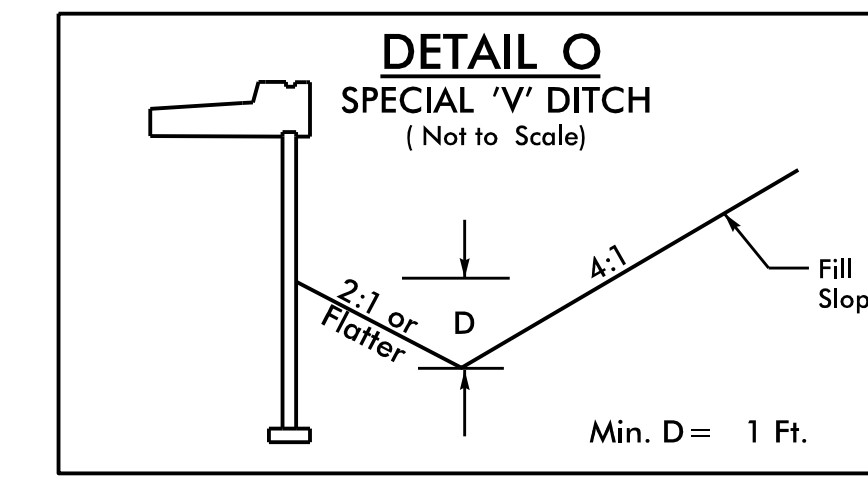
FROM STA. 19+45 TO STA. 19+80 LT -Y1_RT-



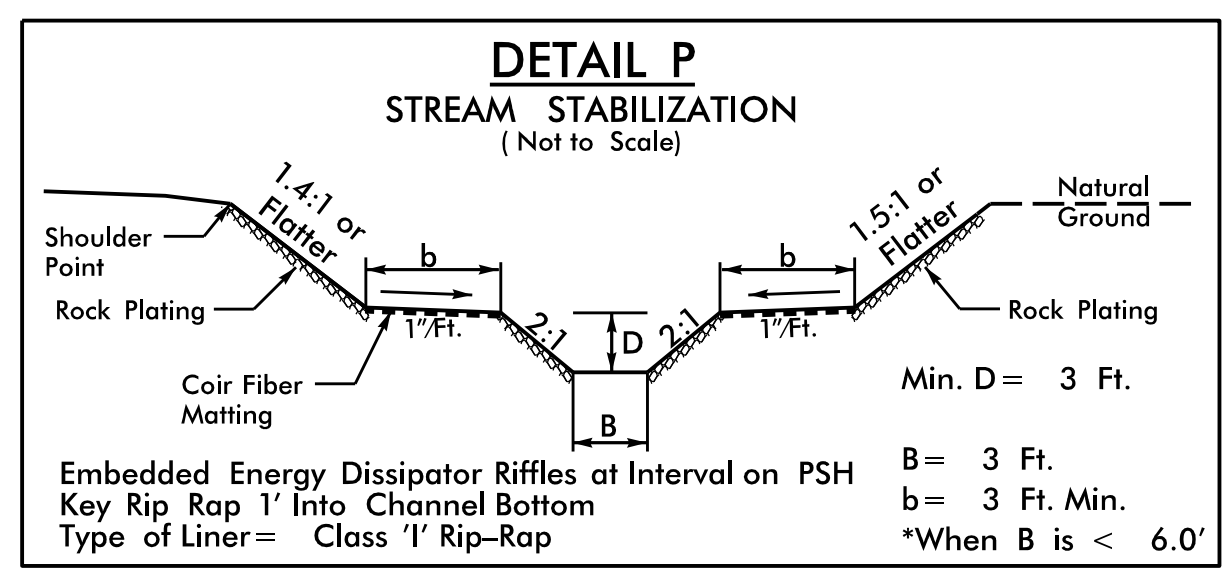
FROM STA. 16+84 TO STA. 17+09 RT -L_RT-



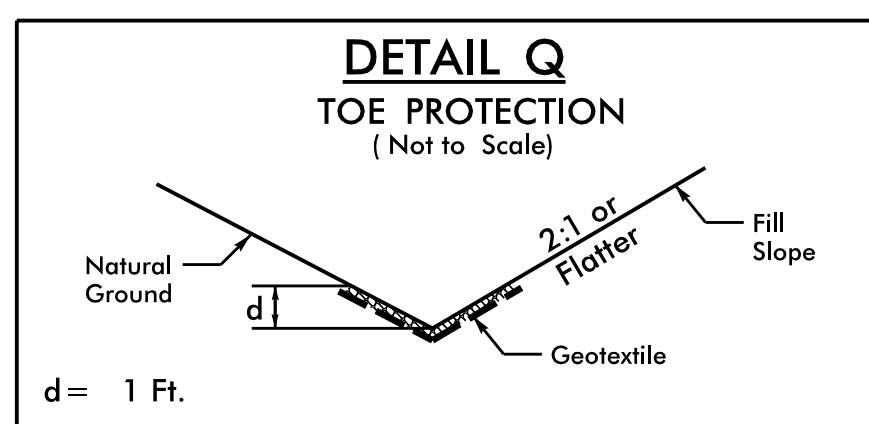
FROM STA. 28+75 TO STA. 29+50 M -L_RT-



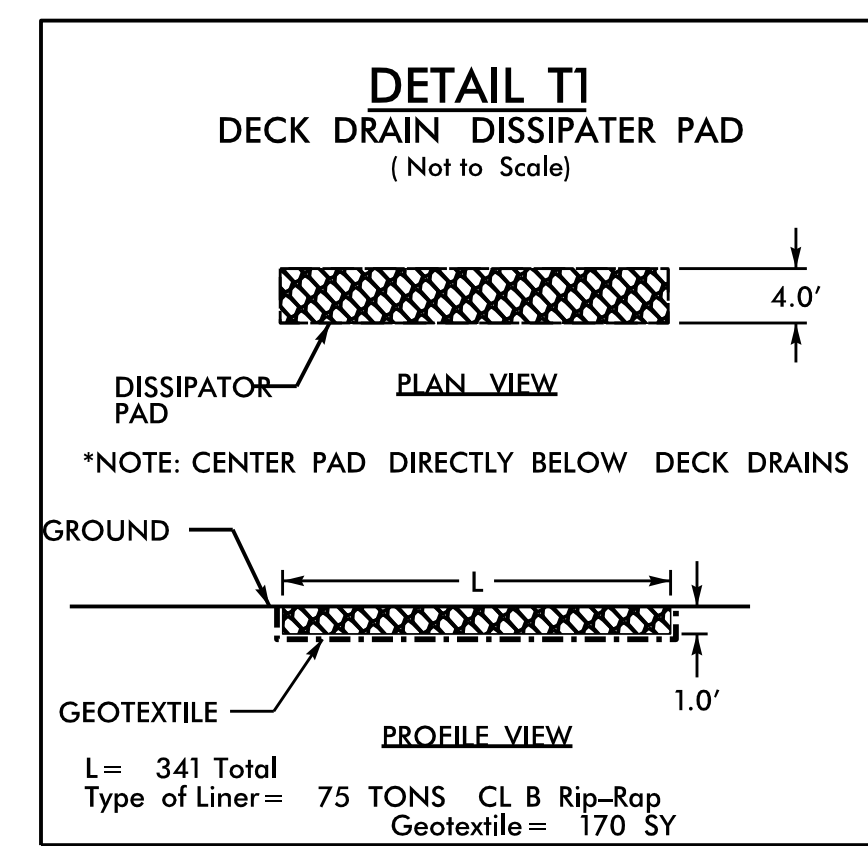
FROM STA. 29+65 TO STA. 31+98 M -L_RT-



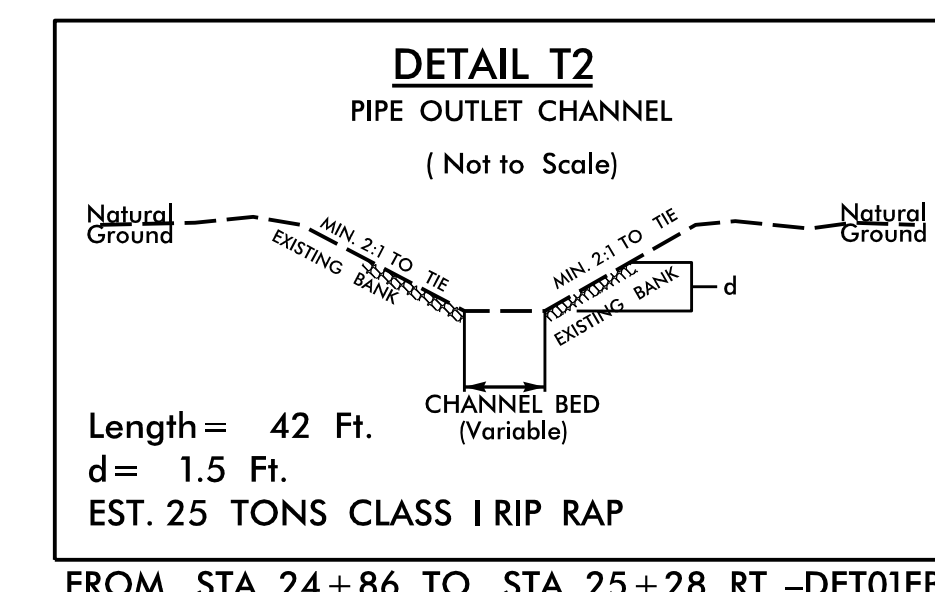
FROM STA. 31+50 TO STA. 34+77 -L_RT
EST. 1,534 TONS CLASS I RIPRAP; 360 SY COIR FIBER MATTING
SEE ROCK PLATING DETAIL ON SHEET 2G-1



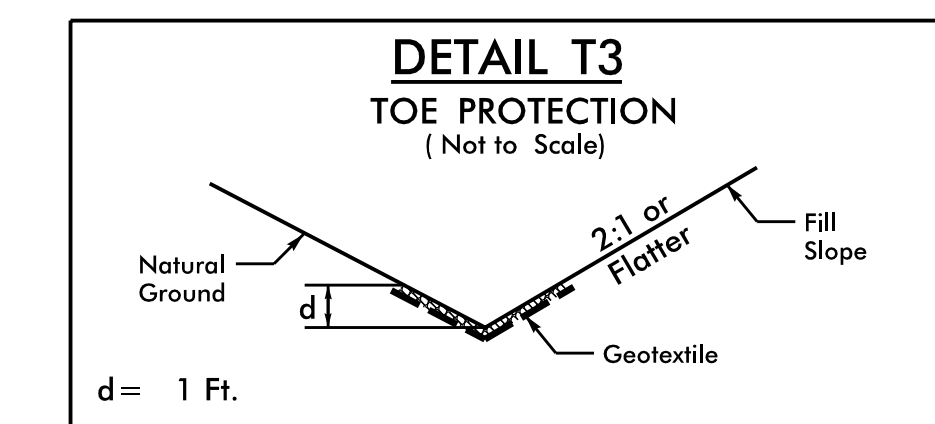
FROM STA. 17+47 TO STA. 18+40 LT -L_LT-
FROM STA. 18+78 TO STA. 22+50 LT -L_LT-
FROM STA. 16+91 TO STA. 18+65 RT -Y1_RT-



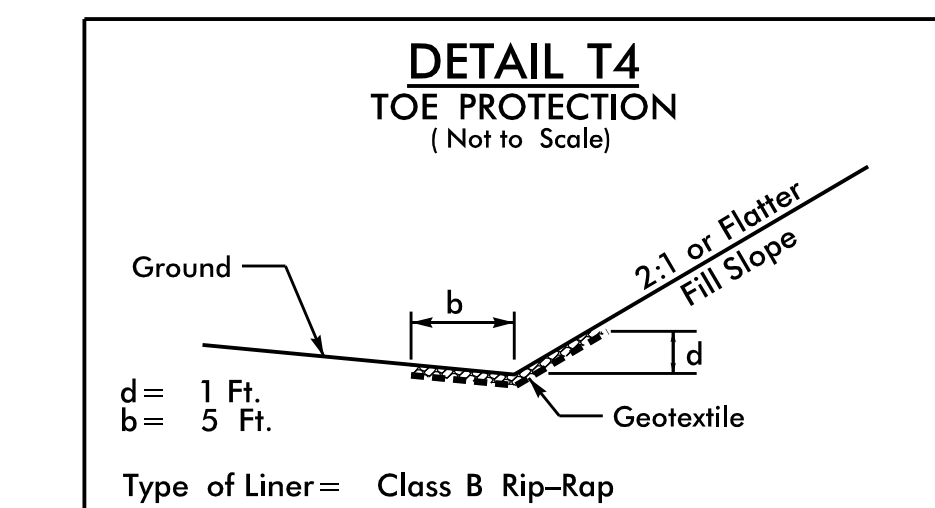
FROM STA. 22+25 TO STA. 23+35 RT -DETO1EB-
FROM STA. 24+40 TO STA. 24+86 RT -DETO1EB-
FROM STA. 22+25 TO STA. 23+35 LT -DETO1EB-
FROM STA. 24+70 TO STA. 25+45 LT -DETO1EB-



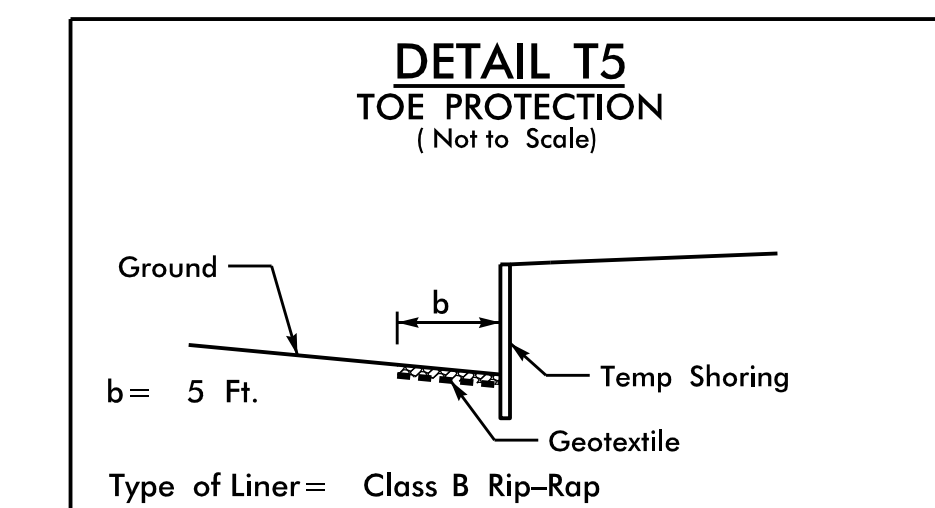
FROM STA. 24+86 TO STA. 25+28 RT -DETO1EB-



FROM STA. 26+50 TO STA. 28+00 RT -DETO1EB-
FROM STA. 28+00 TO STA. 32+00 RT -DETO1EB-



FROM STA. 26+50 TO STA. 29+39 RT -DETO1EB-

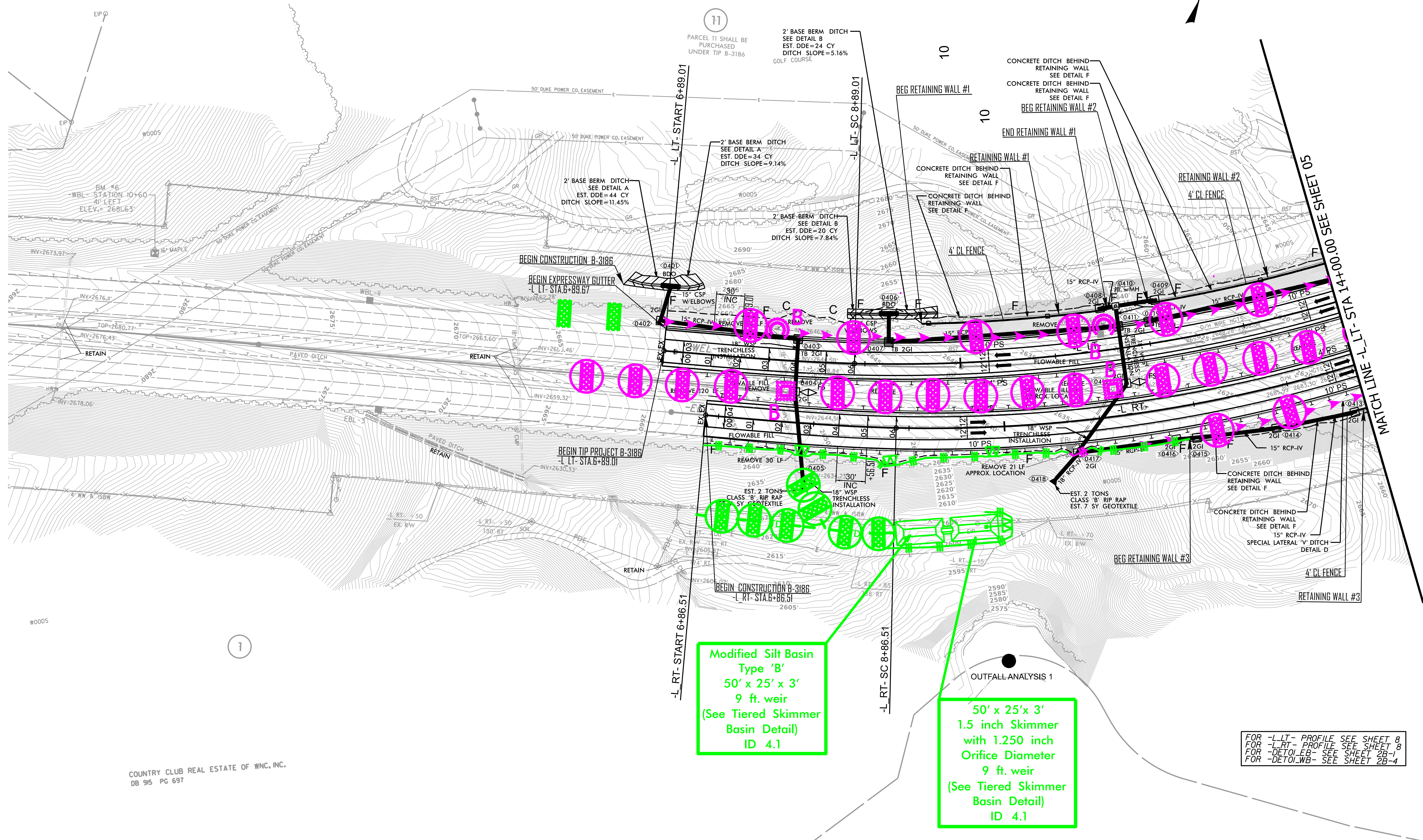


FROM STA. 19+75 TO STA. 23+22 LT -DETO1EB-
FROM STA. 21+95 TO STA. 22+32 RT -DETO1EB-
FROM STA. 25+30 TO STA. 26+50 LT -DETO1EB-
FROM STA. 25+72 TO STA. 26+87 LT -DETO1WB-
FROM STA. 29+83 TO STA. 30+01 LT -DETO1WB-

CLEARING AND GRUBBING
CONSTRUCTION SHEET 4

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

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



Modified Silt Basin
Type 'B'
50' x 25' x 3'
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.1

50' x 25' x 3'
1.5 inch Skimmer
with 1.250 inch
Orifice Diameter
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.1

FOR -L-LT- PROFILE SEE SHEET 8
FOR -L-RT- PROFILE SEE SHEET 8
FOR -DETOLEB- SEE SHEET 2B-1
FOR -DETOLEWB- SEE SHEET 2B-4

COUNTRY CLUB REAL ESTATE OF WNC, INC.
DB 95 PG 697

5/26/20

UTILIZE SPECIAL STILLING BASINS WHERE APPLICABLE

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

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

CLEARING AND GRUBBING CONSTRUCTION SHEET 5

30' x 14' x 3'
1.5 inch Skimmer
with 0.625 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.2

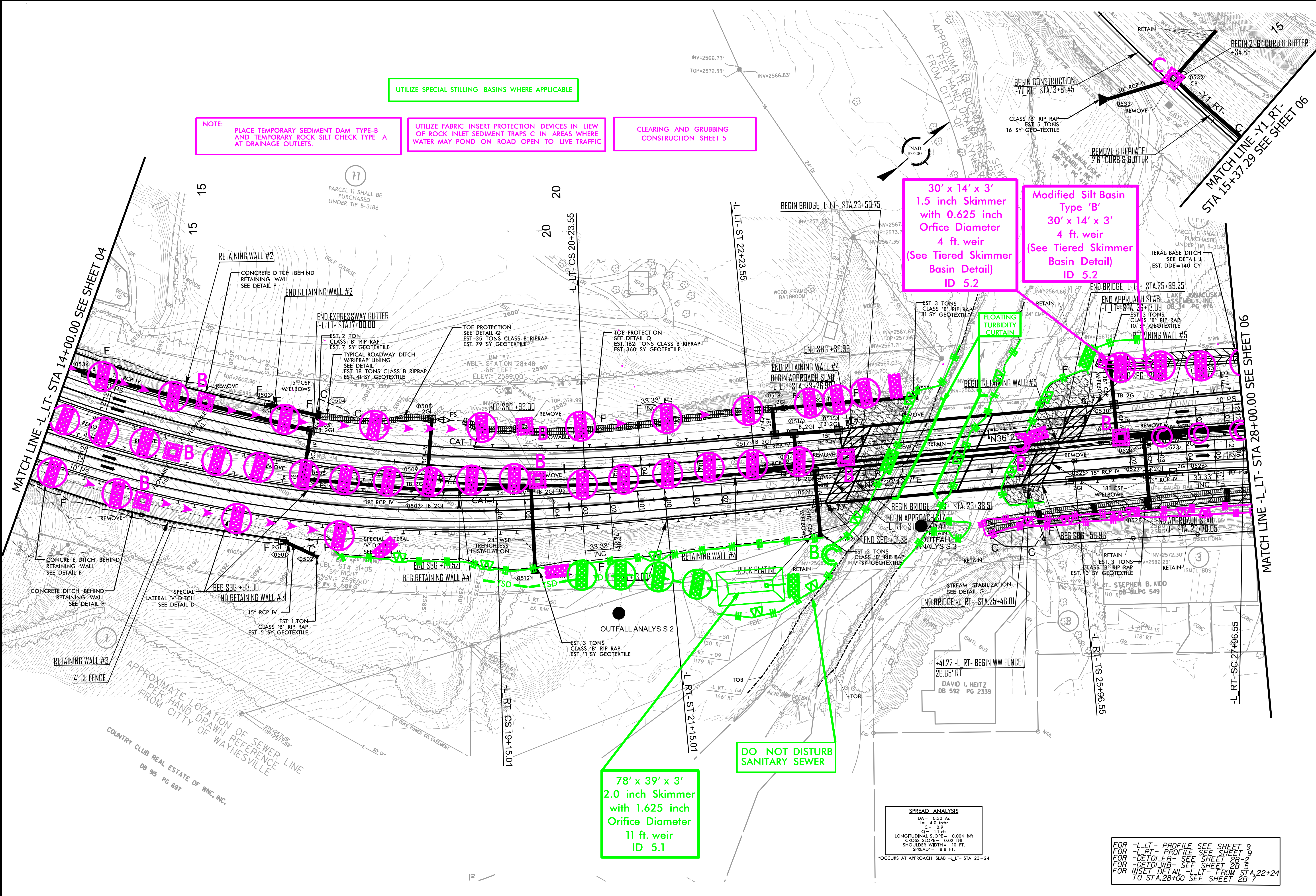
Modified Silt Basin
Type 'B'
30' x 14' x 3'
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.2

78' x 39' x 3'
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
11 ft. weir
ID 5.1

DO NOT DISTURB
SANITARY SEWER

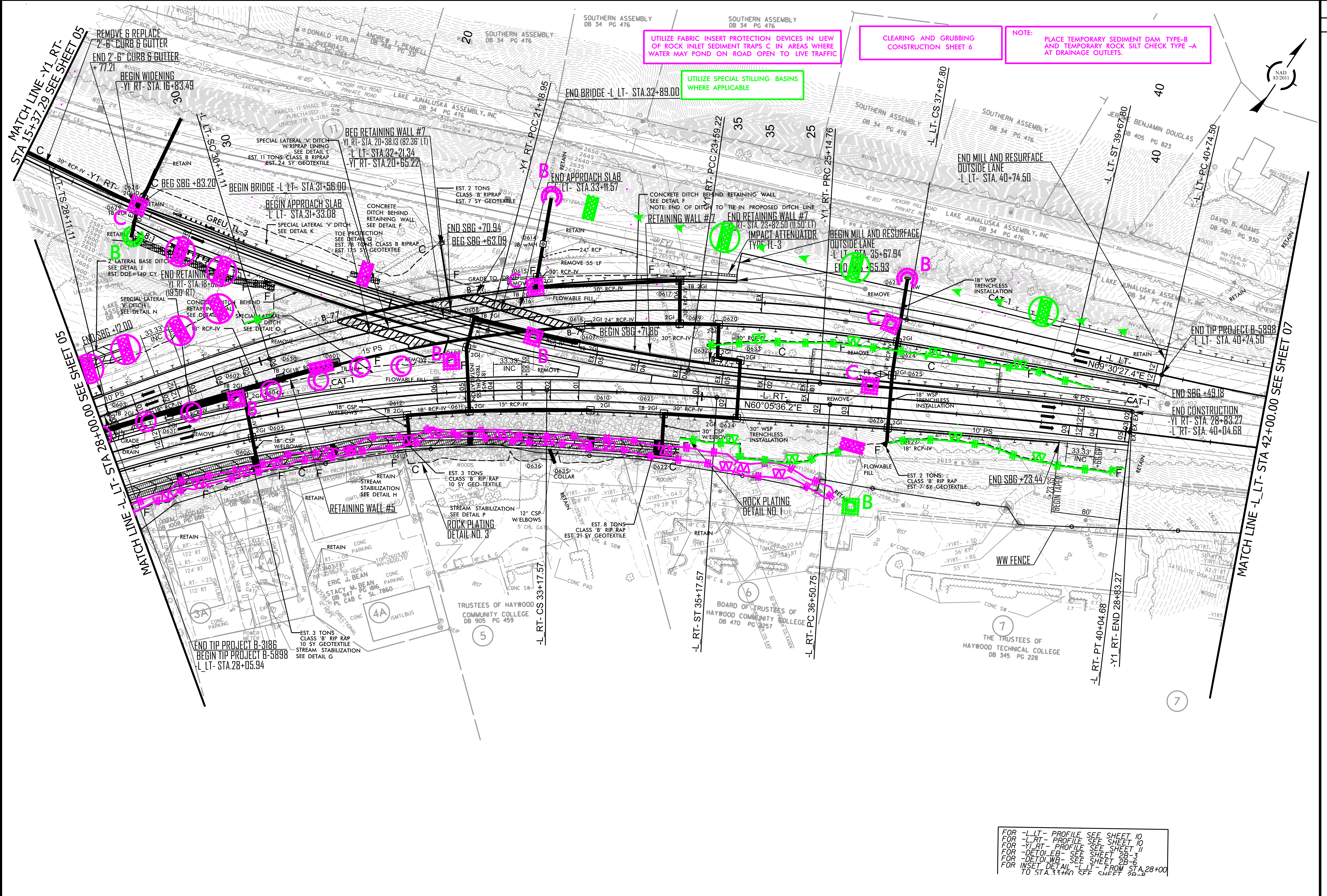
SPREAD ANALYSIS
DA = 0.30 Ac
I = 4.0 in/hr
C = 0.9
Q = 1.1 cfs
LONGITUDINAL SLOPE = 0.004 ft/ft
CROSS SLOPE = 0.02 ft/ft
SHOULDER WIDTH = 10 FT.
SPREAD = 8.8 FT.

FOR -L-LT- PROFILE SEE SHEET 9
FOR -L-RT- PROFILE SEE SHEET 9
FOR -DETOUR- SEE SHEET 2B-2
FOR -DETOUR- SEE SHEET 2B-3
FOR INSET DETAIL -L-LT- FROM STA 22+24 TO STA 28+00 SEE SHEET 2B-7



APPROXIMATE LOCATION OF SEWER LINE PER HAND DRAWN REFERENCE FROM CITY OF WAYNESVILLE
COUNTRY CLUB REAL ESTATE OF WNC, INC.
DB 95 PG 697

*OCCURS AT APPROACH SLAB -L-LT- STA 23+24



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

CLEARING AND GRUBBING CONSTRUCTION SHEET 6

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

UTILIZE SPECIAL STILLING BASINS WHERE APPLICABLE

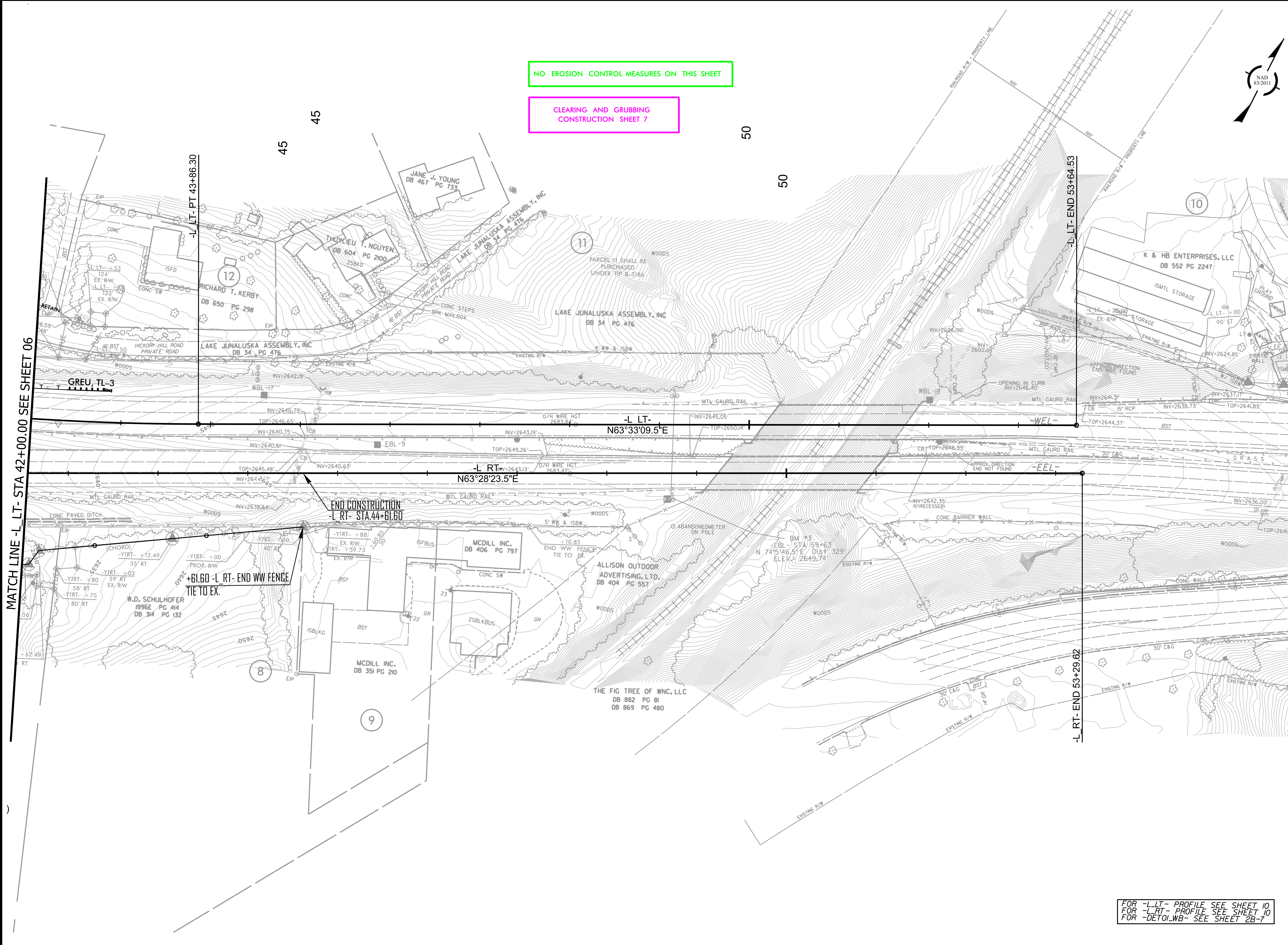
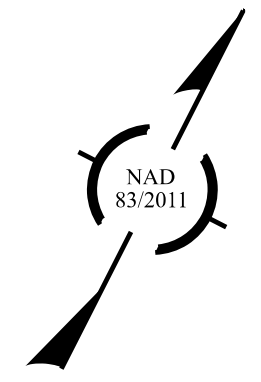


MATCH LINE -Y1 RT- STA 15+37.29 SEE SHEET 05
MATCH LINE -L LT- STA 28+05.94
MATCH LINE -L LT- STA 42+00.00 SEE SHEET 07

FOR -L LT- PROFILE SEE SHEET 10
FOR -L RT- PROFILE SEE SHEET 10
FOR -Y1 RT- PROFILE SEE SHEET 11
FOR -DETOUR- SEE SHEET 2B-3
FOR -DETOUR- SEE SHEET 2B-6
FOR INSET DETAIL -L LT- FROM STA 28+00 TO STA 33+60 SEE SHEET 2B-8

NO EROSION CONTROL MEASURES ON THIS SHEET

CLEARING AND GRUBBING
CONSTRUCTION SHEET 7



FOR -L LT- PROFILE SEE SHEET 10
FOR -L RT- PROFILE SEE SHEET 10
FOR -DETOI-WB- SEE SHEET 2B-7

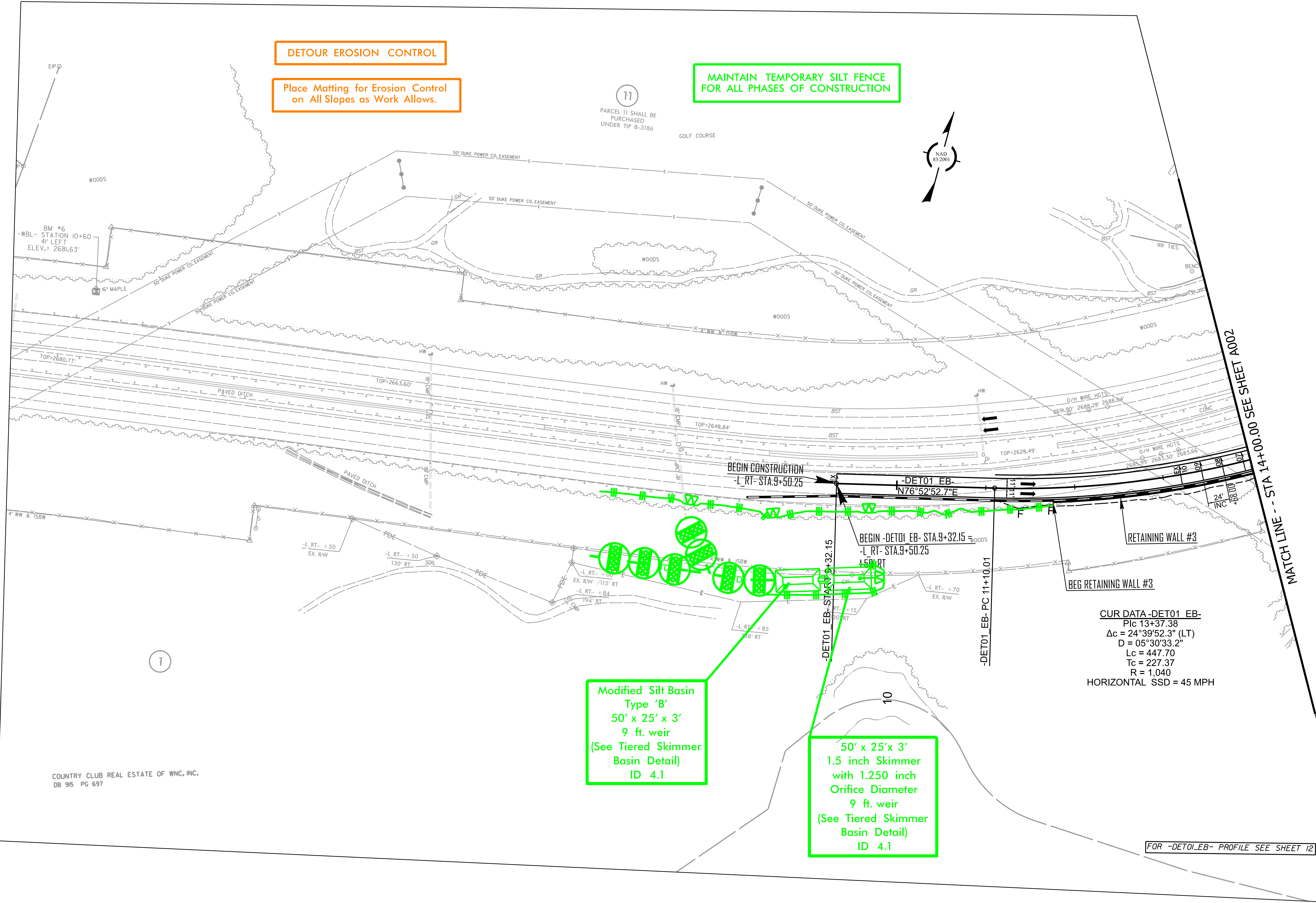
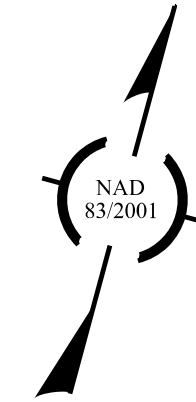
DETOUR EROSION CONTROL

Place Matting for Erosion Control
on All Slopes as Work Allows.

**MAINTAIN TEMPORARY SILT FENCE
FOR ALL PHASES OF CONSTRUCTION**

11
PARCEL 11 SHALL BE
PURCHASED
UNDER TIP B-3186

GOLF COURSE



Modified Silt Basin
Type 'B'
50' x 25' x 3'
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.1

50' x 25' x 3'
1.5 inch Skimmer
with 1.250 inch
Orifice Diameter
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.1

CUR DATA -DETO1 EB-
P/c 13+37.38
 $\Delta c = 24^{\circ}39'52.3''$ (LT)
 $D = 05^{\circ}30'33.2''$
 $Lc = 447.70$
 $Tc = 227.37$
 $R = 1,040$
HORIZONTAL SSD = 45 MPH

FOR -DETO1.EB- PROFILE SEE SHEET 12

MATCH LINE -- STA 14+00.00 SEE SHEET A002

COUNTRY CLUB REAL ESTATE OF WNC, INC.
DB 915 PG 697

MATCH LINE - L - LT - STA 14+00.00 SEE SHEET 2B-1

MATCH LINE - L - LT - STA 28+00.00 SEE SHEET 2B-3

DETOUR EROSION CONTROL

Place Matting for Erosion Control on All Slopes as Work Allows.

UTILIZE SPECIAL STILLING BASINS WHERE APPLICABLE

UTILIZE PUMP AROUND OPERATION AS NEEDED TO MANAGE JURISDICTIONAL FLOW DURING CONSTRUCTION OF DETOUR DRAINAGE SYSTEM.

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.

CUR DATA-DETO1 EB-
P/c 18+14.94
 $\Delta c = 14^{\circ}18'16.2''$ (LT)
 $D = 02^{\circ}47'41.7''$
Lc = 511.80
Tc = 257.24
R = 2,050



LAKE JUNALUSKA ASSEMBLY, INC DB 34 PG 476

PARCEL 11 SHALL BE PURCHASED UNDER TIP B-3186

PARCEL 11 SHALL BE PURCHASED UNDER TIP B-3186

GOLF COURSE

GOLF COURSE

LAKE JUNALUSKA ASSEMBLY, INC DB 34 PG 476

LAKE JUNALUSKA ASSEMBLY, INC DB 34 PG 476

BM #7 -WBL- STATION 28+48
68' LEFT
ELEV. = 2589.00'

TEMP SHORING

END TEMP BRIDGE
-DETO1 EB- STA.25+50.00

TEMP SHORING

US 23774 (WEST BOUND)

TOE PROTECTION SEE DETAIL T4
CLASS B RIP RAP EST. 155 TONS
4' WIDE DECK DRAIN DISSIPATER PAD SEE DETAIL T1

4' WIDE DECK DRAIN DISSIPATER PAD SEE DETAIL T1

PAVED DITCH 18" CSP WELBOWS 24" INC

18" TEMPORARY PIPE

GRADE TO DRAIN

RETAINING WALL #3

END RETAINING WALL #3

TEMP SHORING

BEGIN TEMP BRIDGE
-DETO1 EB- STA.27+20.00

PROTECT ABOVE GROUND SEWER LINE

RETAIN 48" PIPE UNDER GRAVEL ROAD

CLASS II RIP RAP (TYP) PIPE OUTLET CHANNEL SEE DETAIL T2

TOE PROTECTION SEE DETAIL T5
CLASS B RIP RAP EST. 45 TONS
EST. 100 SY GEOTEXTILE

15

APPROXIMATE LOCATION OF SEWER LINE PER HAND DRAWN REFERENCE FROM CITY OF WAYNESVILLE

COUNTRY CLUB REAL ESTATE OF WNC, INC. DB 95 PG 697

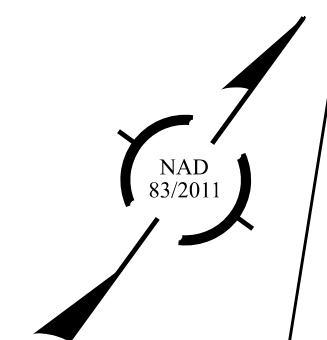
20

DO NOT DISTURB SANITARY SEWER

78' x 39' x 3'
2.0 inch Skimmer with 1.625 inch Orifice Diameter
11 ft. weir
ID 5.1

FOR -DETO1 EB- PROFILE SEE SHEET 12

5/26/20



DETOUR EROSION CONTROL

Place Matting for Erosion Control on All Slopes as Work Allows.

UTILIZE PUMP AROUND OPERATION AS NEEDED TO MANAGE JURISDICTIONAL FLOW DURING CONSTRUCTION OF DETOUR DRAINAGE SYSTEM.

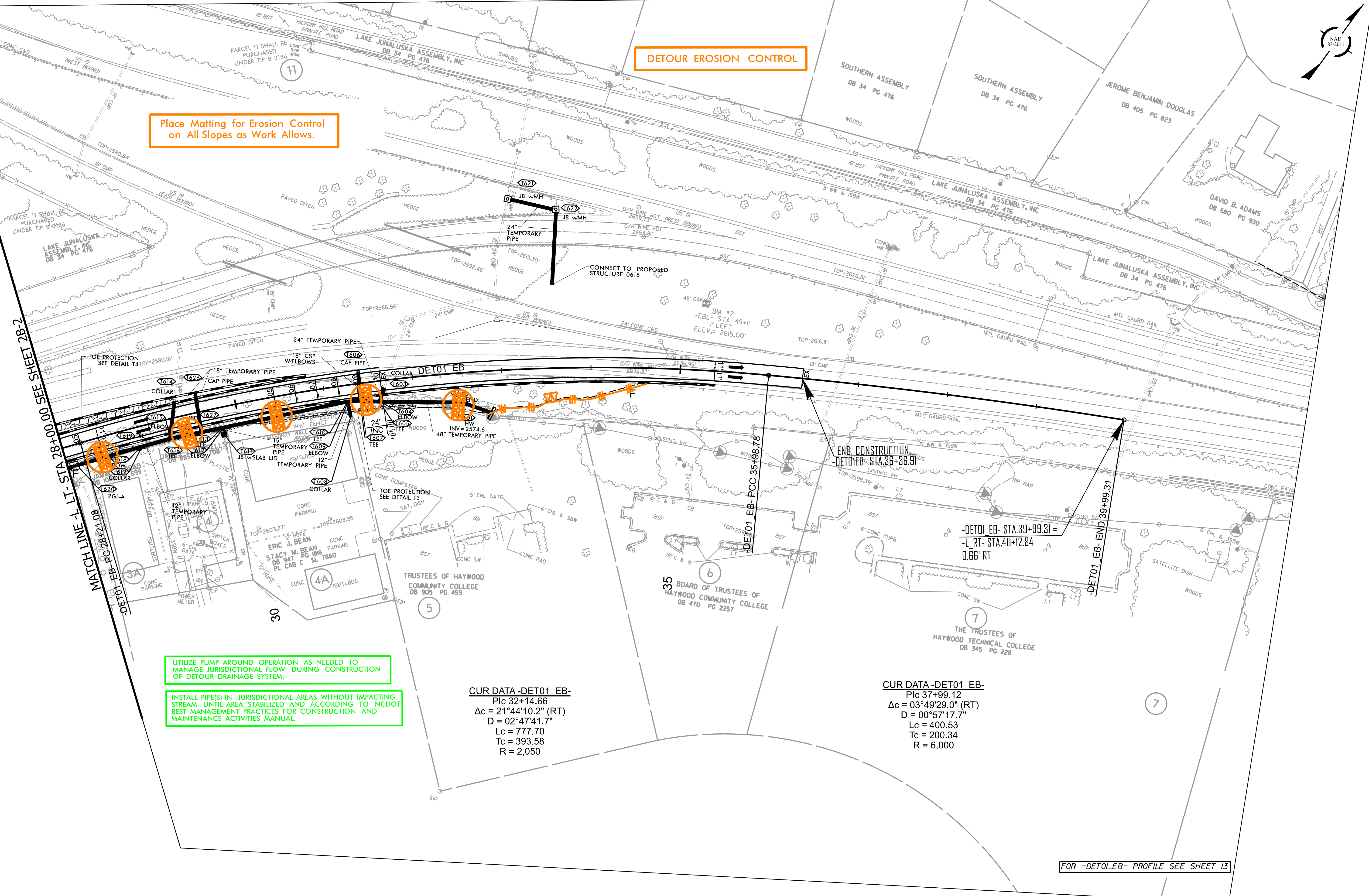
INSTALL PIPE(S) IN JURISDICTIONAL AREAS WITHOUT IMPACTING STREAM UNTIL AREA STABILIZED AND ACCORDING TO NCDOT BEST MANAGEMENT PRACTICES FOR CONSTRUCTION AND MAINTENANCE ACTIVITIES MANUAL.

CUR DATA -DETO1 EB-
 P/c 32+14.66
 $\Delta c = 21^{\circ}44'10.2''$ (RT)
 D = $02^{\circ}47'41.7''$
 Lc = 777.70
 Tc = 393.58
 R = 2,050

CUR DATA -DETO1 EB-
 P/c 37+99.12
 $\Delta c = 03^{\circ}49'29.0''$ (RT)
 D = $00^{\circ}57'17.7''$
 Lc = 400.53
 Tc = 200.34
 R = 6,000

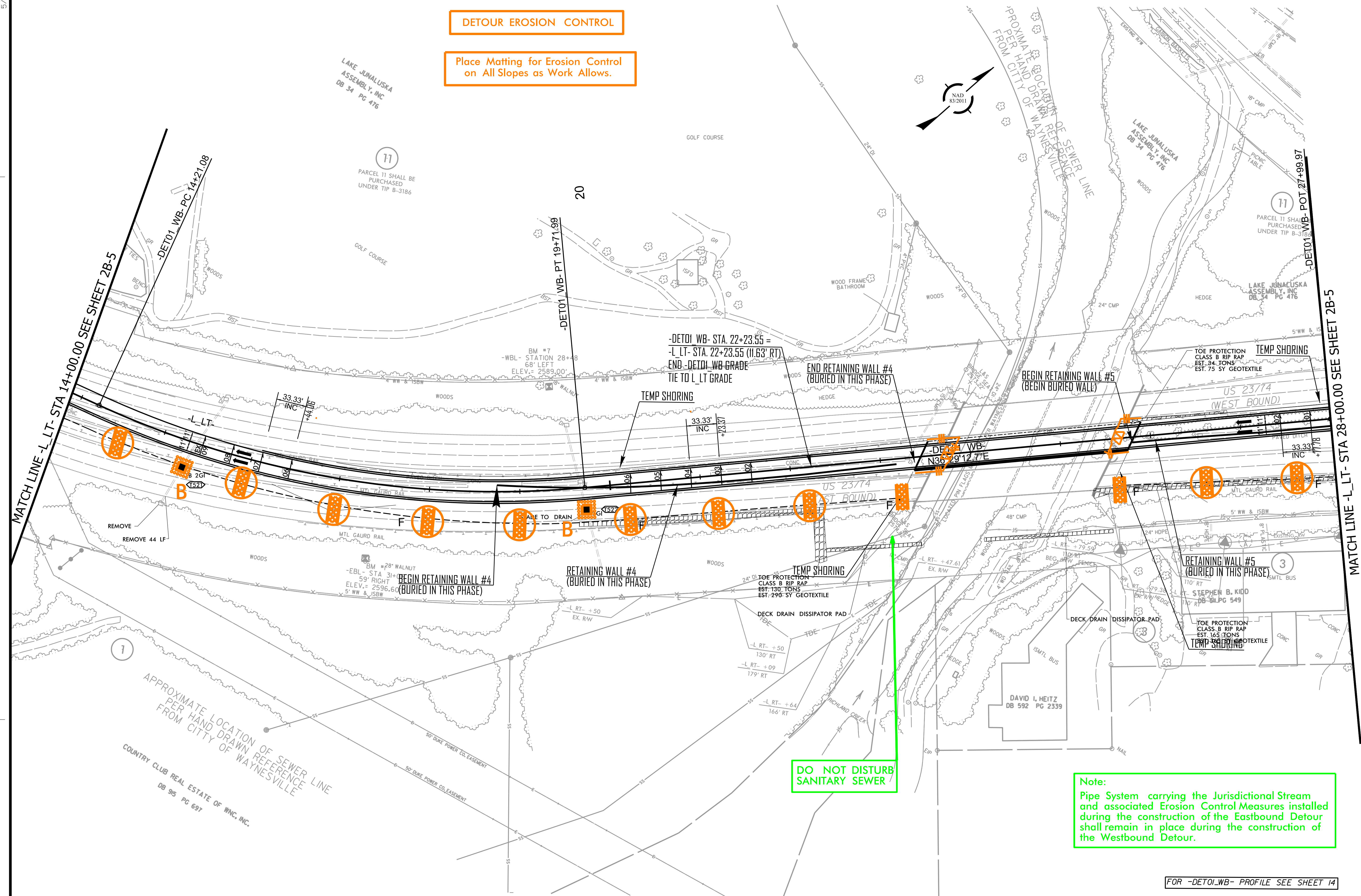
FOR -DETO1.EB- PROFILE SEE SHEET 13

MATCH LINE - LT - STA 28+00.00 SEE SHEET 2B-2



DETOUR EROSION CONTROL

Place Matting for Erosion Control
on All Slopes as Work Allows.

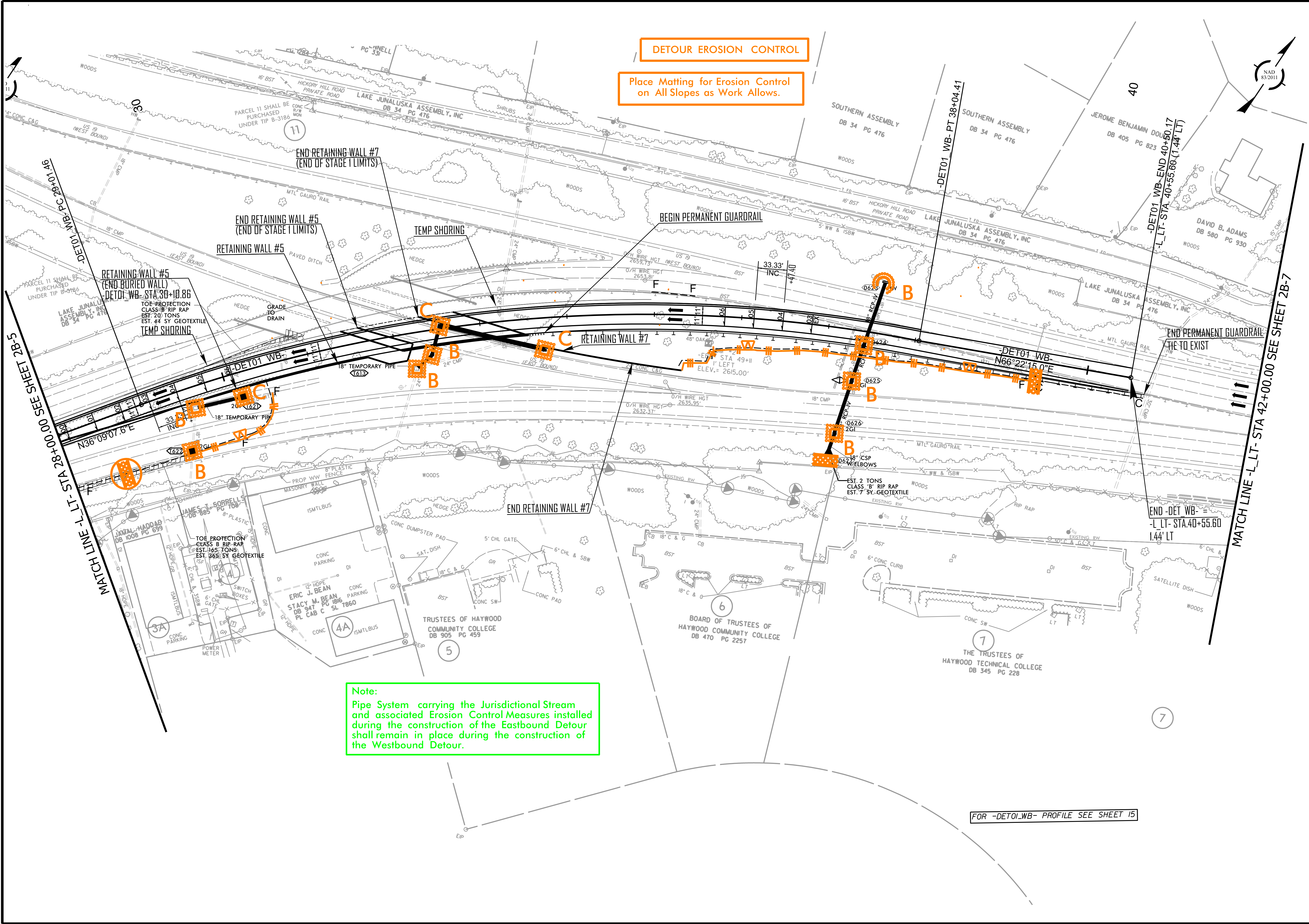


Note:
Pipe System carrying the Jurisdictional Stream and associated Erosion Control Measures installed during the construction of the Eastbound Detour shall remain in place during the construction of the Westbound Detour.

FOR -DET01WB- PROFILE SEE SHEET 14

DETOUR EROSION CONTROL

Place Matting for Erosion Control on All Slopes as Work Allows.



Note:
Pipe System carrying the Jurisdictional Stream and associated Erosion Control Measures installed during the construction of the Eastbound Detour shall remain in place during the construction of the Westbound Detour.

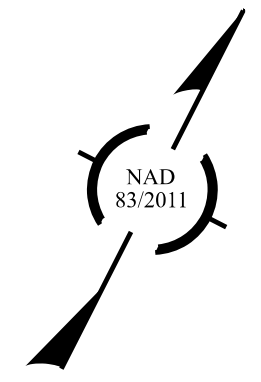
FOR -DETO1-WB- PROFILE SEE SHEET 15

MATCH LINE - L - LT - STA 28+00.00 SEE SHEET 2B-5

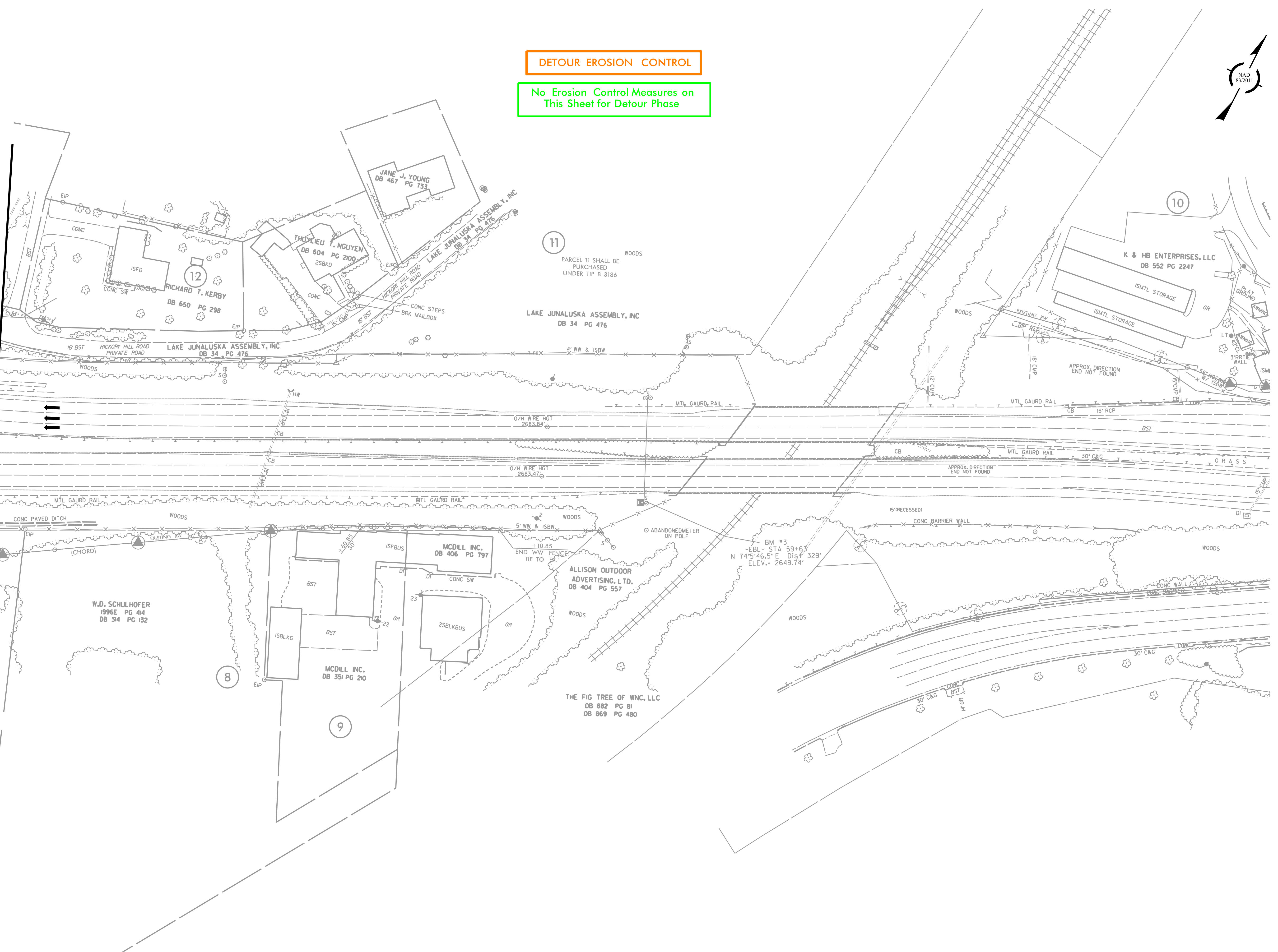
MATCH LINE - L - LT - STA 42+00.00 SEE SHEET 2B-7

DETOUR EROSION CONTROL

No Erosion Control Measures on This Sheet for Detour Phase



MATCH LINE -L-LT- STA 42+00.00 SEE SHEET 2B-6



RICHARD T. KERBY
DB 650 PG 298

THUY DIEU T. NGUYEN
DB 604 PG 2100

JANE J. YOUNG
DB 467 PG 733

LAKE JUNALUSKA ASSEMBLY, INC.
DB 34 PG 476

K & HB ENTERPRISES, LLC
DB 552 PG 2247

W.D. SCHULHOFER
1996E PG 414
DB 314 PG 132

MCDILL INC.
DB 351 PG 210

MCDILL INC.
DB 406 PG 797

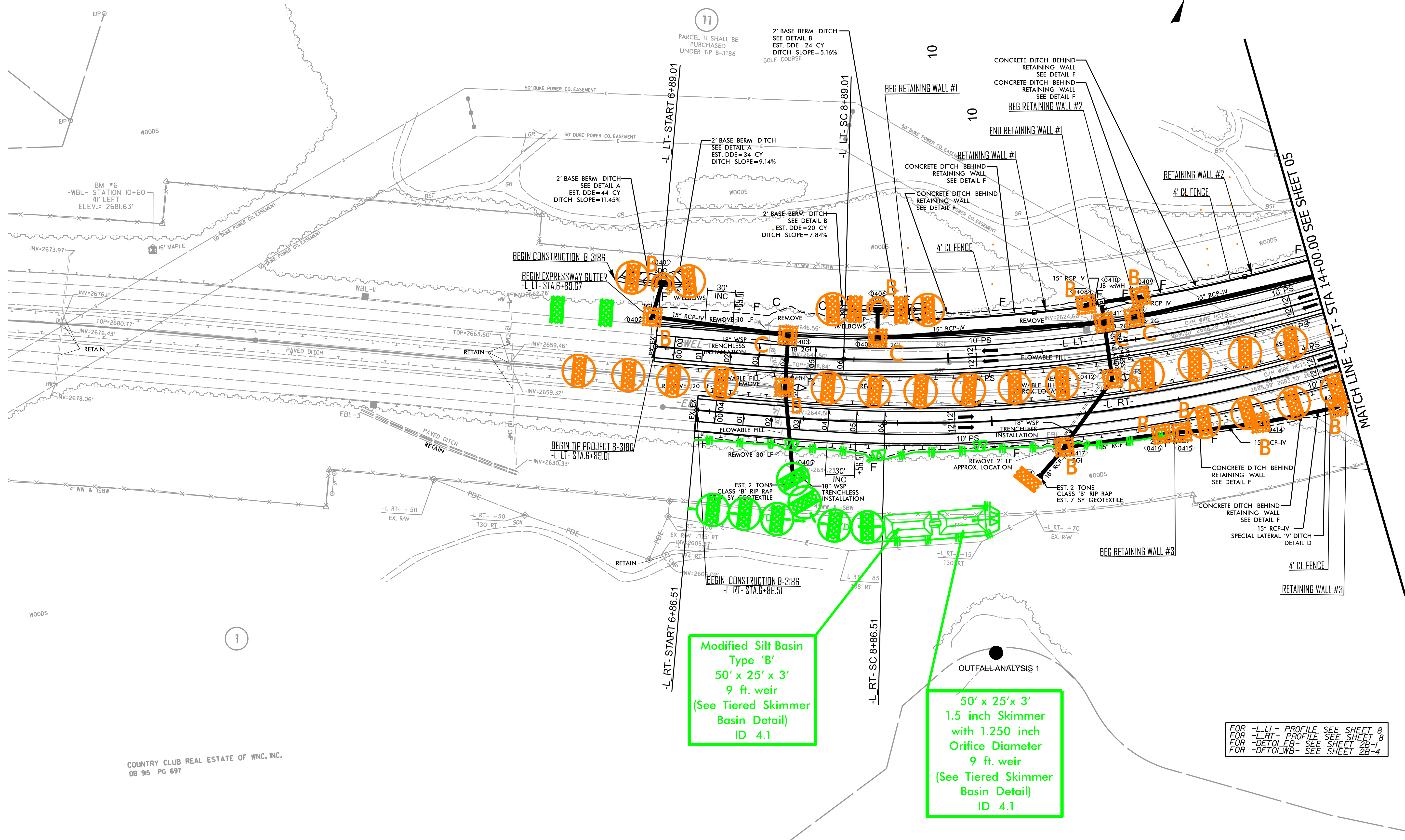
ALLISON OUTDOOR
ADVERTISING, LTD.
DB 404 PG 557

THE FIG TREE OF WNC, LLC
DB 882 PG 81
DB 869 PG 480

BM #3
-EBL- STA 59+63
N 74°5'46.5" E DISY 329'
ELEV.= 2649.74'

Place Matting for Erosion Control
on All Slopes as Work Allows.

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



Modified Silt Basin
Type 'B'
50' x 25' x 3'
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.1

50' x 25' x 3'
1.5 inch Skimmer
with 1.250 inch
Orifice Diameter
9 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 4.1

FOR -L-LT- PROFILE SEE SHEET 8
FOR -L-RT- PROFILE SEE SHEET 8
FOR -DETOLEB- SEE SHEET 2B-1
FOR -DETOLEWB- SEE SHEET 2B-4

UTILIZE COIR FIBER MATTING FOR STABILIZATION OF BRIDGE WORK EXCAVATION

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

Place Matting for Erosion Control on All Slopes as Work Allows.

UTILIZE SPECIAL STILLING BASINS WHERE APPLICABLE

30' x 14' x 3'
1.5 inch Skimmer
with 0.75 inch
Orifice Diameter
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.3

Modified Silt Basin
Type 'B'
30' x 14' x 3'
4 ft. weir
(See Tiered Skimmer
Basin Detail)
ID 5.3

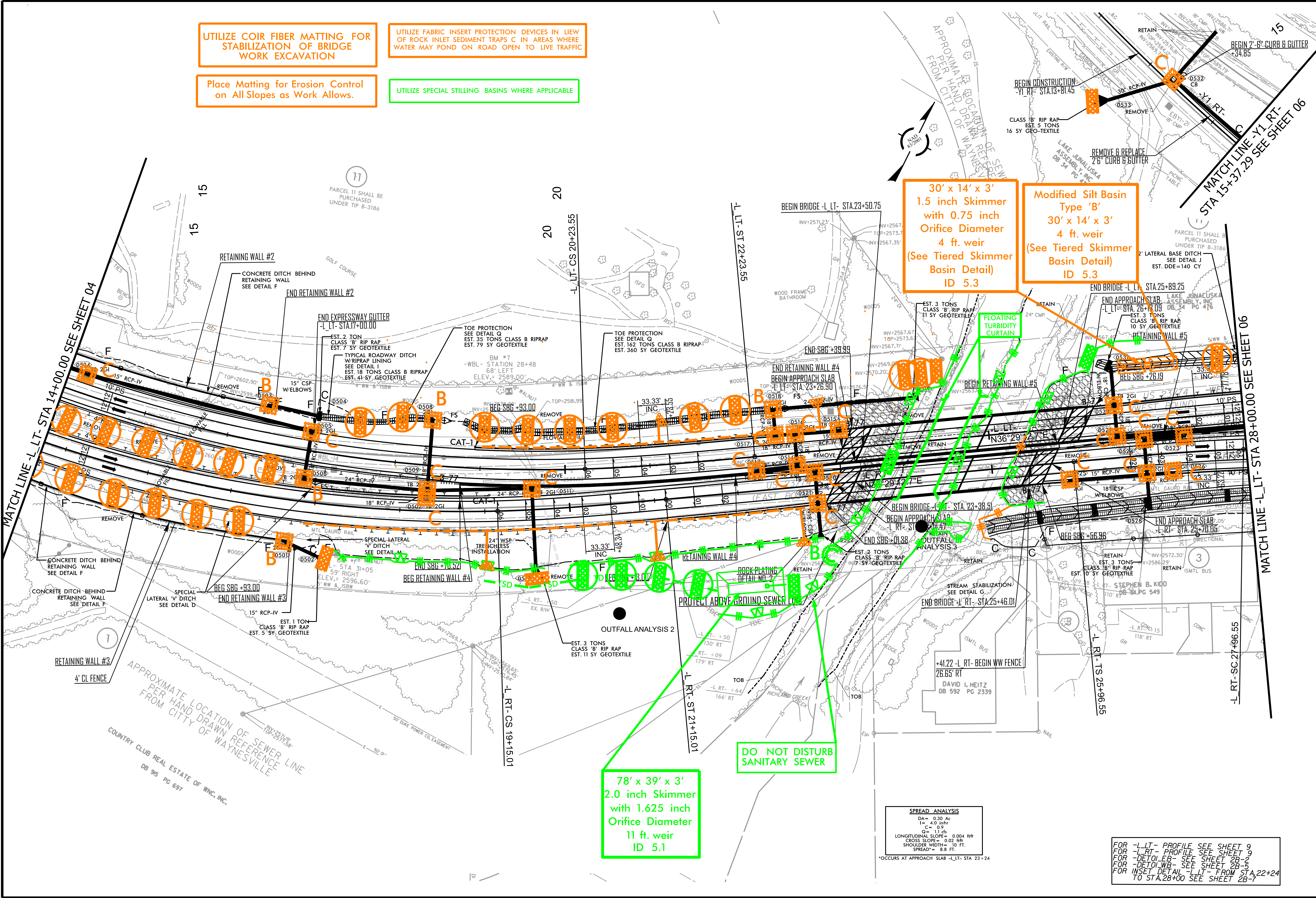
78' x 39' x 3'
2.0 inch Skimmer
with 1.625 inch
Orifice Diameter
11 ft. weir
ID 5.1

DO NOT DISTURB
SANITARY SEWER

SPREAD ANALYSIS
DA = 0.30 Ac
I = 4.0 in/hr
C = 0.9
Q = 11 cfs
LONGITUDINAL SLOPE = 0.004 ft/ft
CROSS SLOPE = 0.02 ft/ft
SHOULDER WIDTH = 10 FT.
SPREAD = 8.8 FT.

FOR -L-LT- PROFILE SEE SHEET 9
FOR -L-RT- PROFILE SEE SHEET 9
FOR -DETOUR- SEE SHEET 2B-2
FOR -DETOUR- SEE SHEET 2B-3
FOR INSET DETAIL -L-LT- FROM STA 22+24 TO STA 28+00 SEE SHEET 2B-7

5/26/20



MATCH LINE -L-LT- STA 14+00.00 SEE SHEET 04

MATCH LINE -L-LT- STA 28+00.00 SEE SHEET 06

APPROXIMATE LOCATION OF SEWER LINE
PER HAND DRAWN REFERENCE
FROM CITY OF WAYNESVILLE

COUNTRY CLUB REAL ESTATE OF WNC, INC.
DB 95 PG 697

PARCEL 11 SHALL BE
PURCHASED
UNDER TIP B-3186

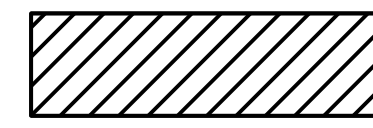
PARCEL 11 SHALL BE
PURCHASED
UNDER TIP B-3186

*OCCURS AT APPROACH SLAB -L-LT- STA 23+24

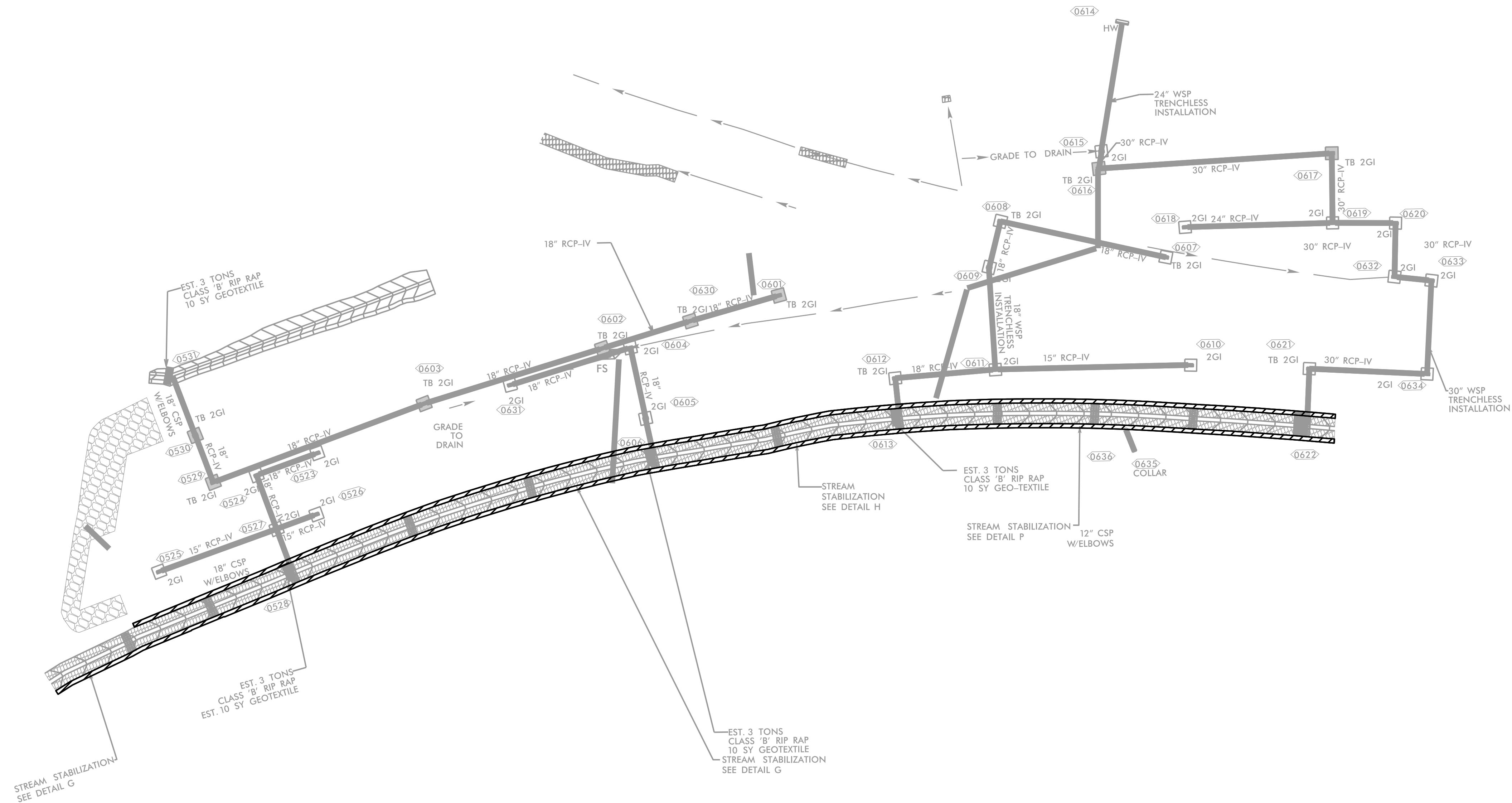
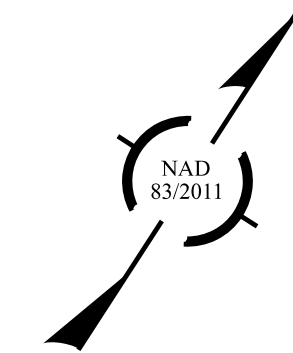
STREAMBANK REFORESTATION

0.07 ACRES (B-3186) 0.06 ACRES (B-5898)

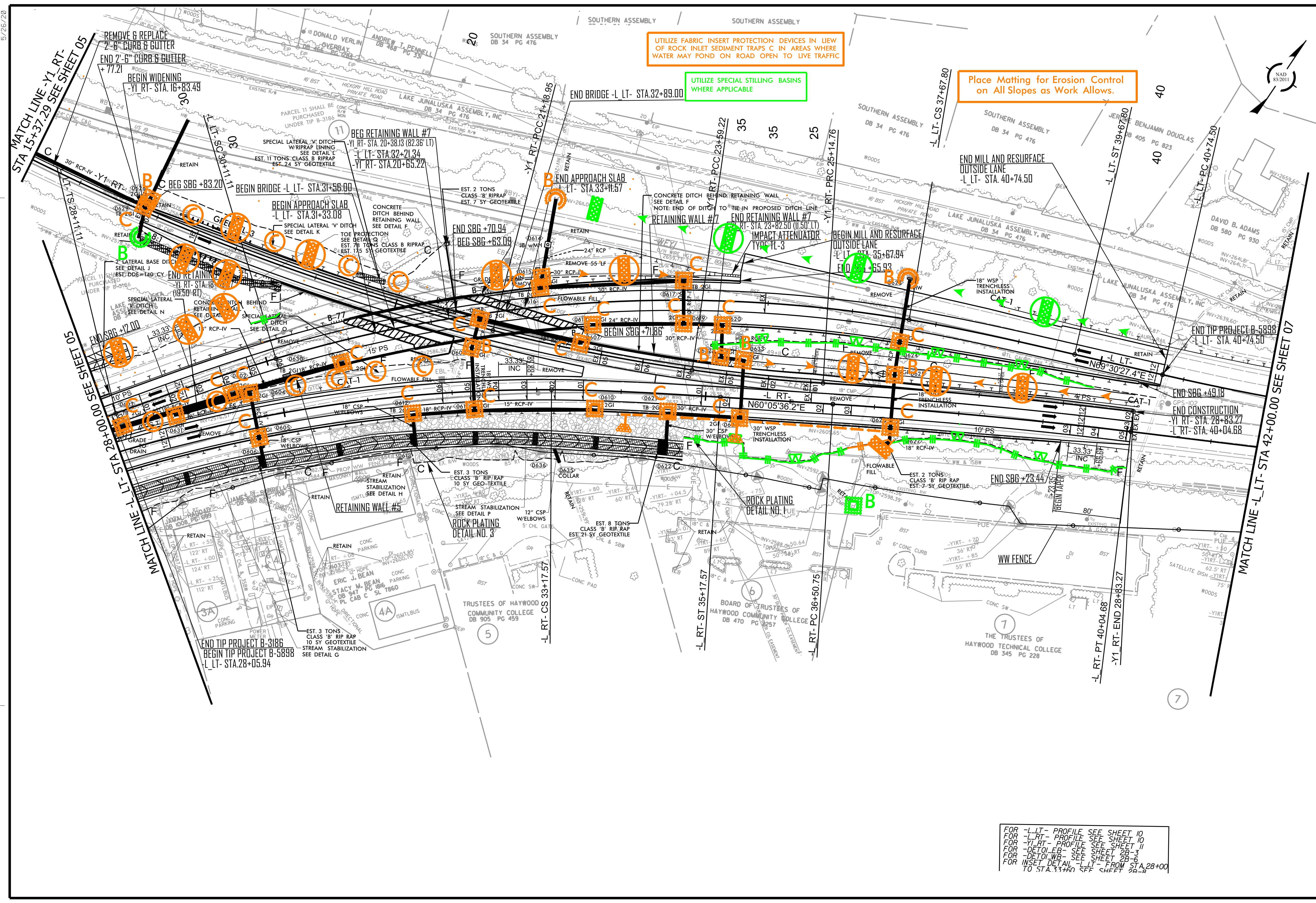
LEGEND



STREAMBANK REFORESTATION (TYPE II) – 0.13 AC



SEE SHEETS RF-1, RF-2 AND PROJECT SPECIAL PROVISIONS



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

UTILIZE SPECIAL STILLING BASINS WHERE APPLICABLE

Place Matting for Erosion Control on All Slopes as Work Allows.

MATCH LINE -Y1 RT- STA 15+37.29 SEE SHEET 05

MATCH LINE -L LT- STA 42+00.00 SEE SHEET 07

FOR -L LT- PROFILE SEE SHEET 10
 FOR -Y1 RT- PROFILE SEE SHEET 10
 FOR -DETAIL E- SEE SHEET 2B-3
 FOR -DETAIL W- SEE SHEET 2B-6
 FOR INSET DETAIL -L LT- FROM STA 28+00 TO STA 33+60 SEE SHEET 2B-5

