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TIP PROJECT: U-5114

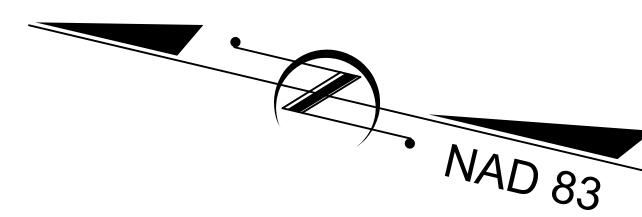
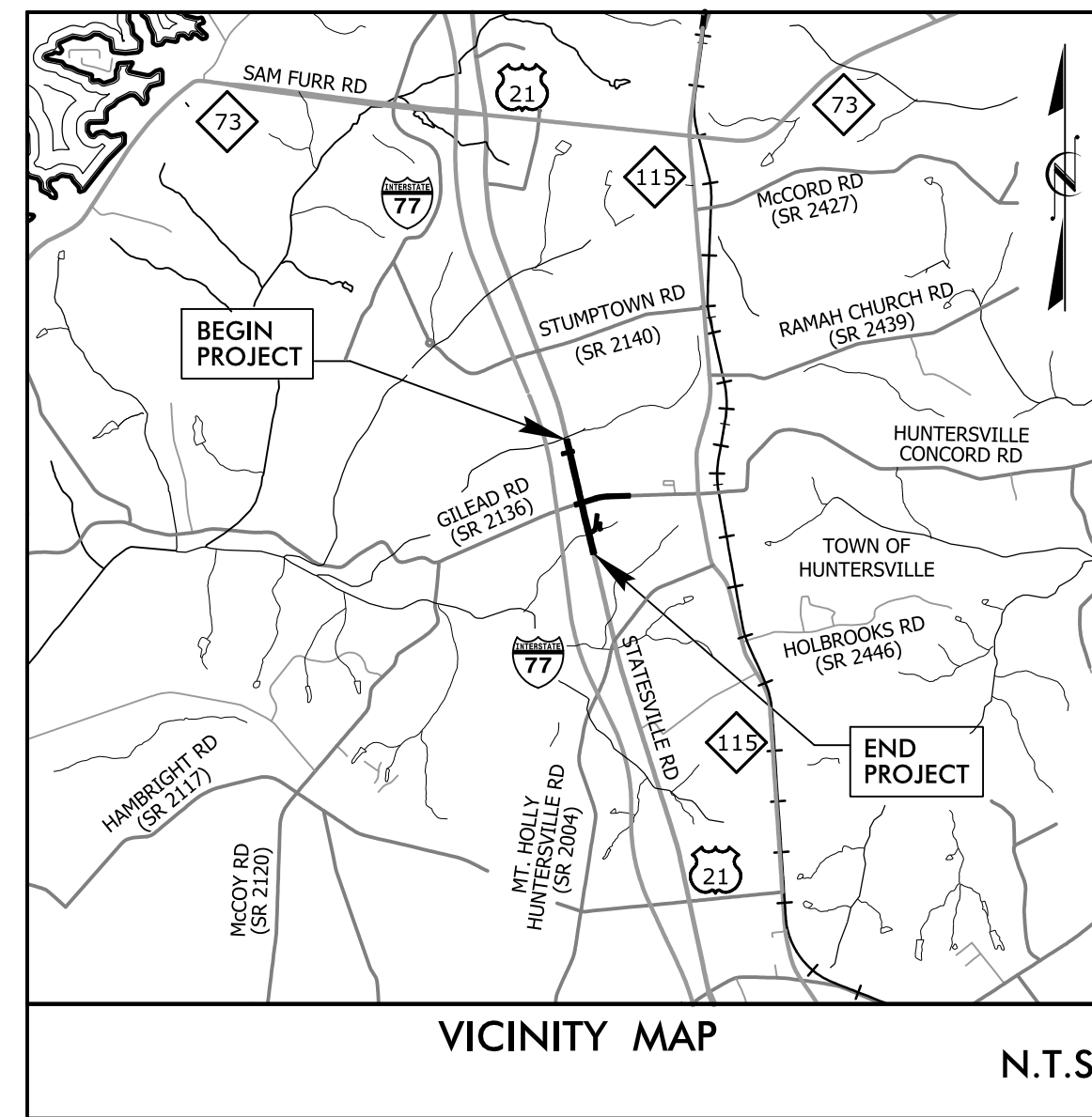
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
PLAN FOR PROPOSED
HIGHWAY EROSION CONTROL

MECKLENBURG COUNTY

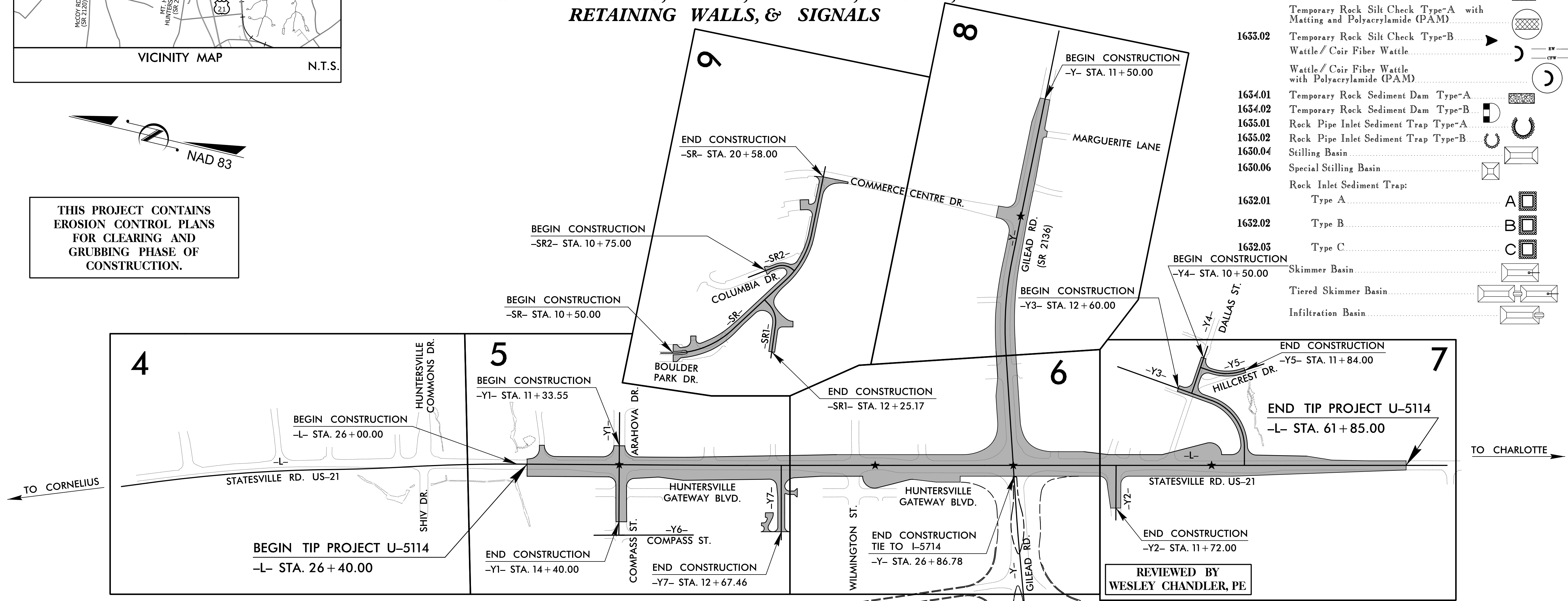
LOCATION: US 21 (STATESVILLE ROAD) AND SR 2136 (GILEAD ROAD)

TYPE OF WORK: GRADING, PAVING, DRAINAGE, CULVERT,
RETAINING WALLS, & SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-5114	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42376.1.R2		PE	
42376.2.2		ROW UTIL	
42376.3.1		CONSTRUCTION	



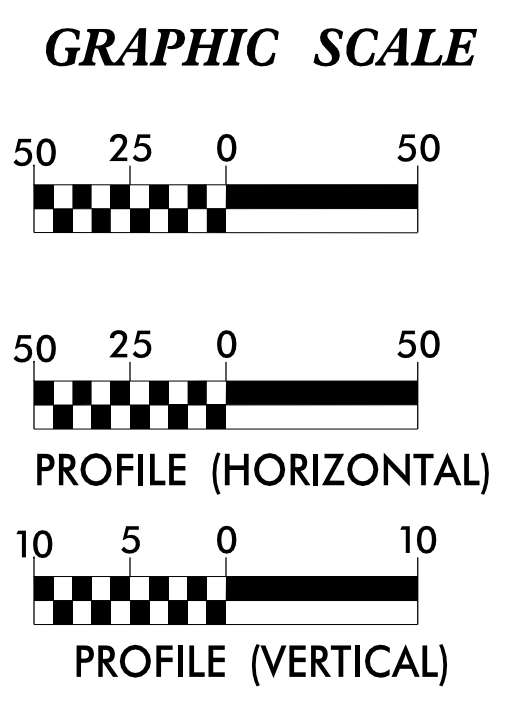
THIS PROJECT CONTAINS
EROSION CONTROL PLANS
FOR CLEARING AND
GRUBBING PHASE OF
CONSTRUCTION.



EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	TS
1630.05	Temporary Diversion	TD
1605.01	Temporary Silt Fence	TSF
1606.01	Special Sediment Control Fence	SSCF
1622.01	Temporary Berms and Slope Drains	TBSD
1630.02	Silt Basin Type B	SB
1633.01	Temporary Rock Silt Check Type-A	TRSCA
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	TRSCA/PAM
1633.02	Temporary Rock Silt Check Type-B	TRSCB
	Wattle/Coir Fiber Wattle	WCFW
	Wattle/Coir Fiber Wattle with Polyacrylamide (PAM)	WCFW/PAM
1634.01	Temporary Rock Sediment Dam Type-A	TRSDA
1634.02	Temporary Rock Sediment Dam Type-B	TRSDB
1635.01	Rock Pipe Inlet Sediment Trap Type-A	RPISTRA
1635.02	Rock Pipe Inlet Sediment Trap Type-B	RPISTRB
1630.04	Stilling Basin	SB
1630.06	Special Stilling Basin	SSB
	Rock Inlet Sediment Trap:	
1632.01	Type A	A
1632.02	Type B	B
1632.03	Type C	C
	Skimmer Basin	SKB
	Tiered Skimmer Basin	TSKB
	Infiltration Basin	IB

REVIEWED BY
WESLEY CHANDLER, PE



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.

PLANS PREPARED FOR THE CITY OF HUNTERSVILLE BY:

STV 100 Years
STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

2018 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 6, 2016

LETTING DATE:
JULY 17, 2018

NIKKI HONEYCUTT, PE
PROJECT ENGINEER

MAAMOON ABDELAZIZ
PROJECT DESIGNER

Reviewed In the Office of:

ROADSIDE ENVIRONMENTAL UNIT
1 South Wilmington St.
Raleigh, NC 27611

2018 STANDARD SPECIFICATIONS

Designed by:

Davin Morrison, P.E. 3126
NAME LEVEL III CERTIFICATION NO.

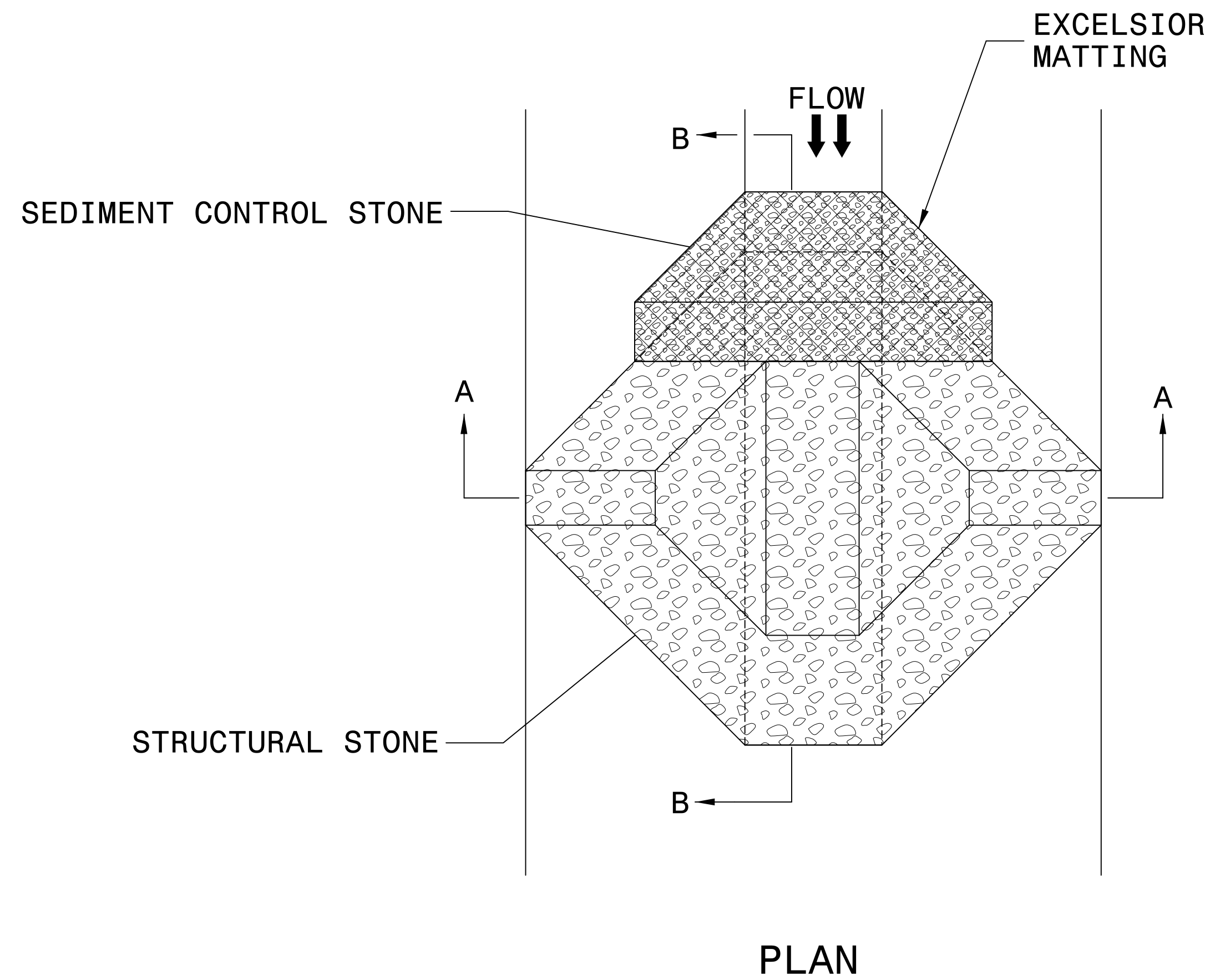
Roadway Standard Drawings

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	

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



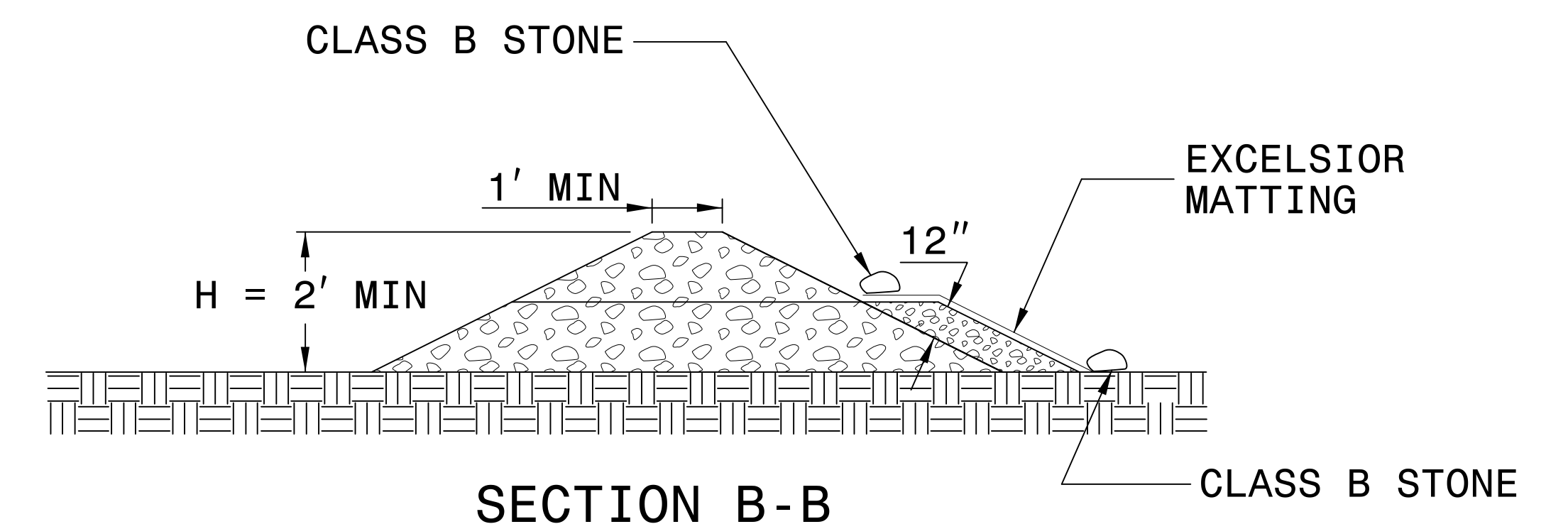
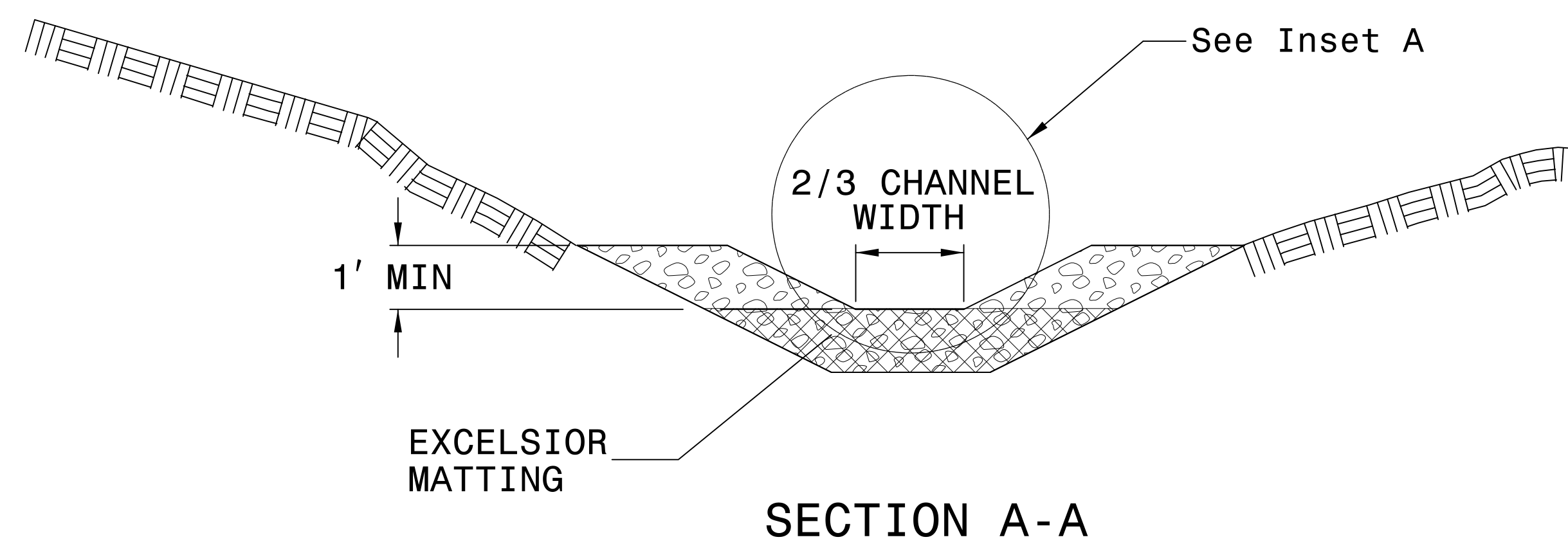
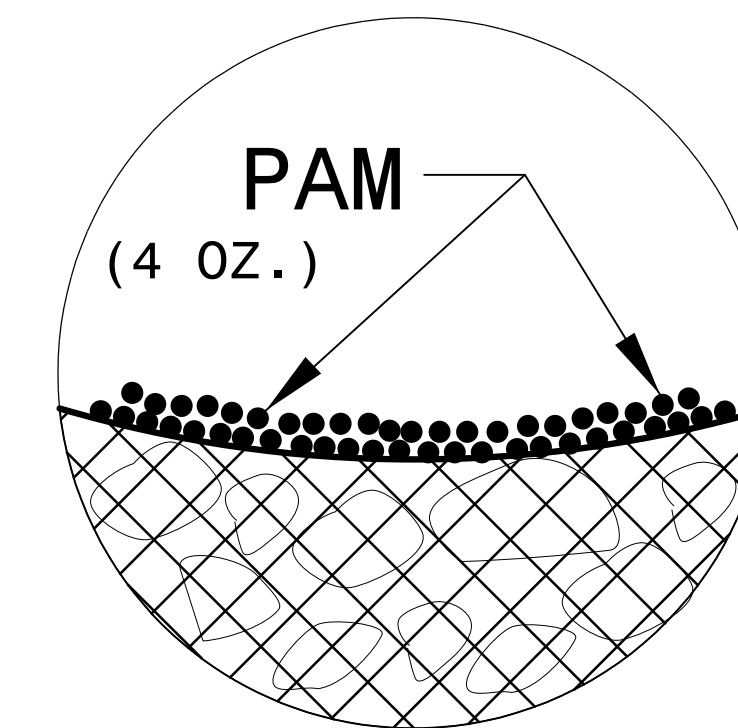
NOTES:

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.

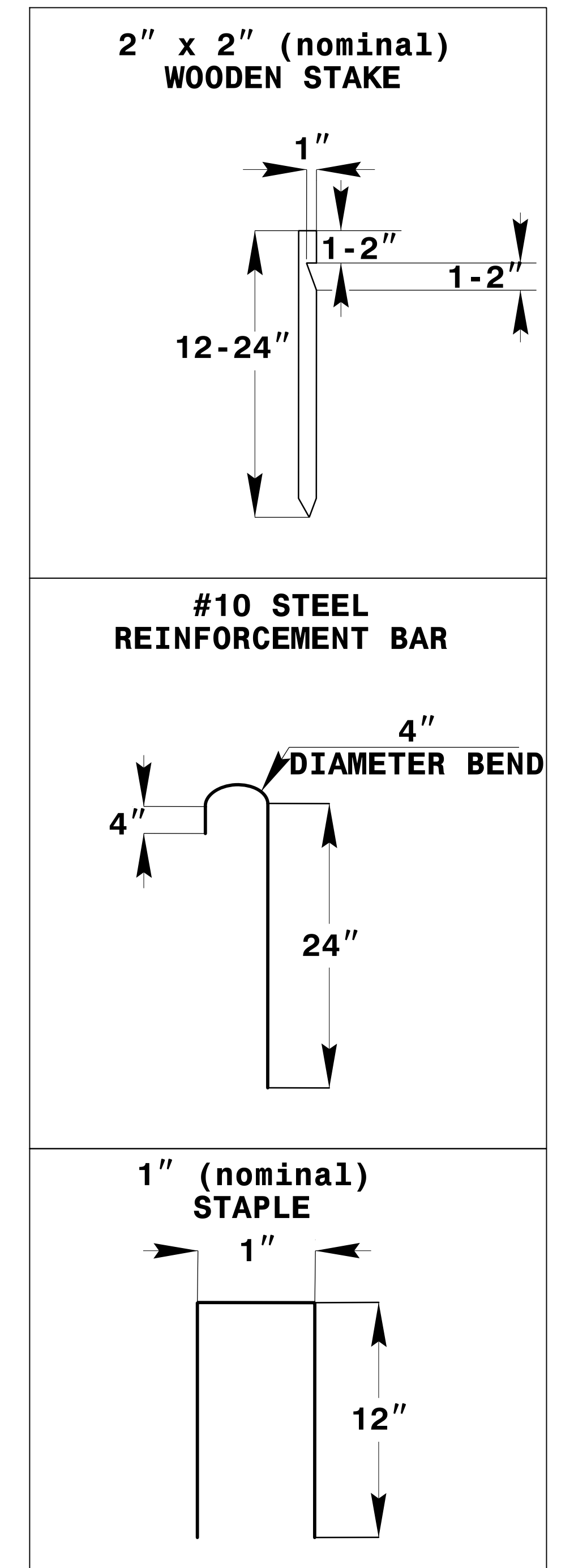
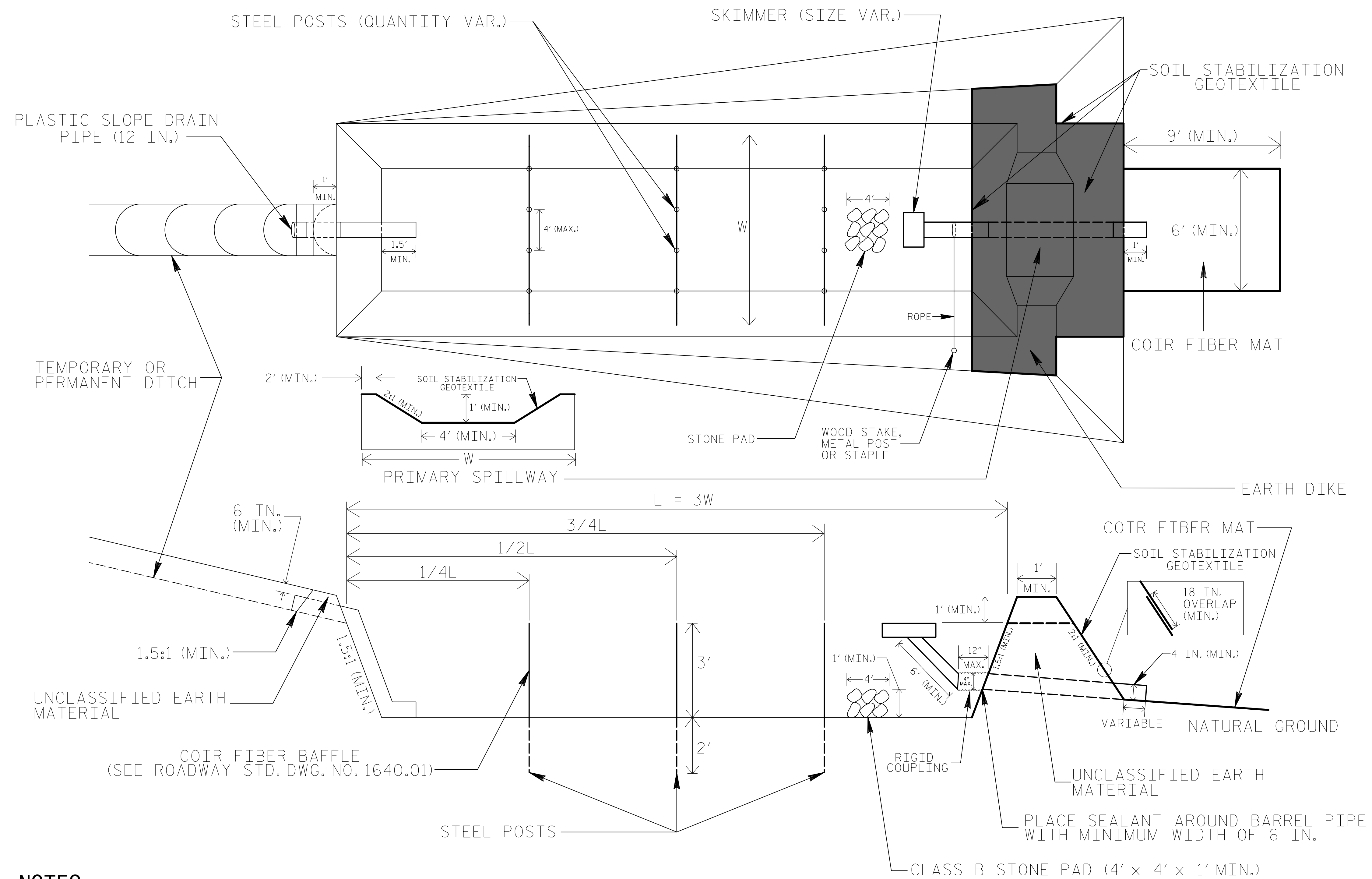
PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH ROCK SILT CHECK.

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



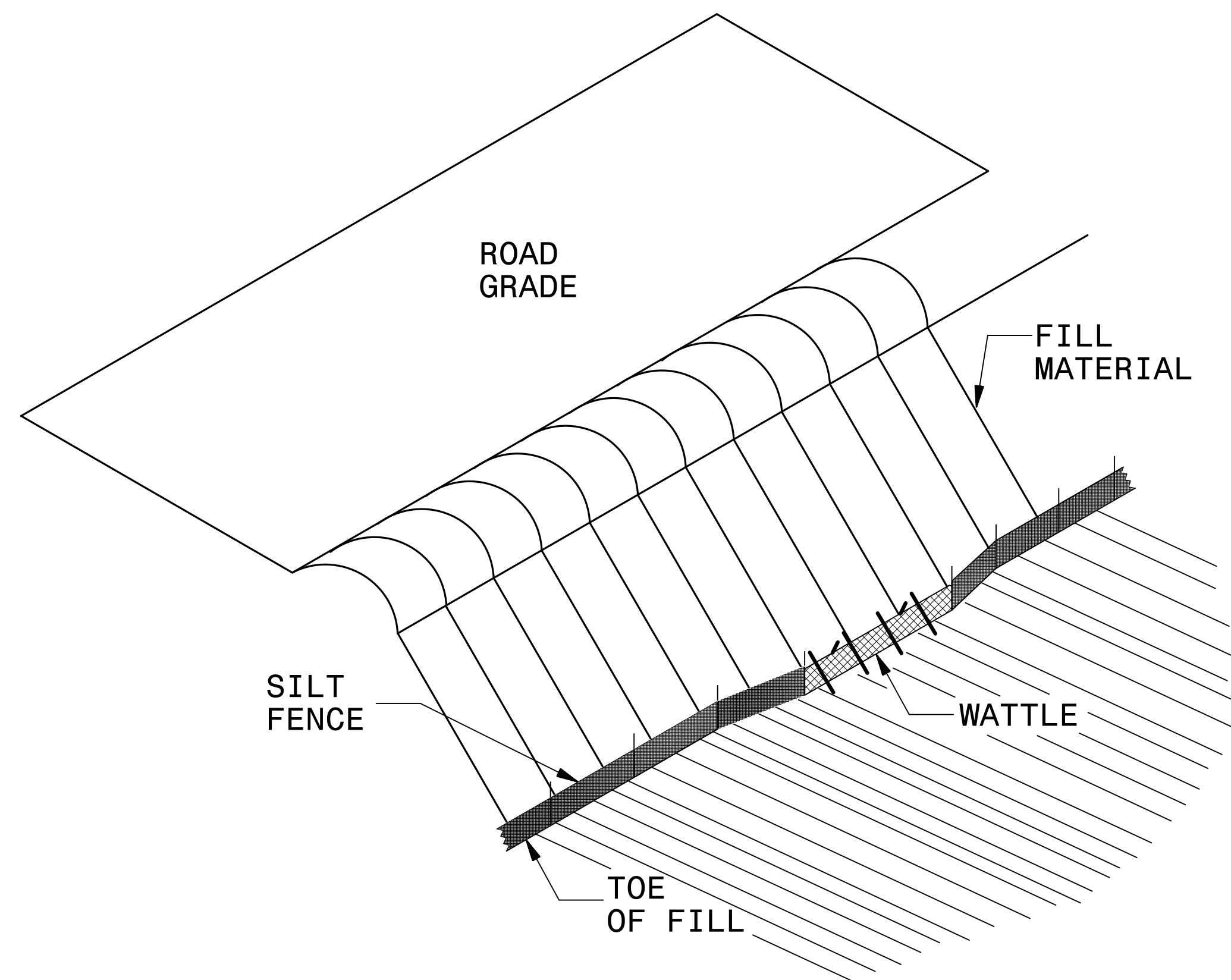
NOT TO SCALE

SKIMMER BASIN WITH BAFFLES DETAIL

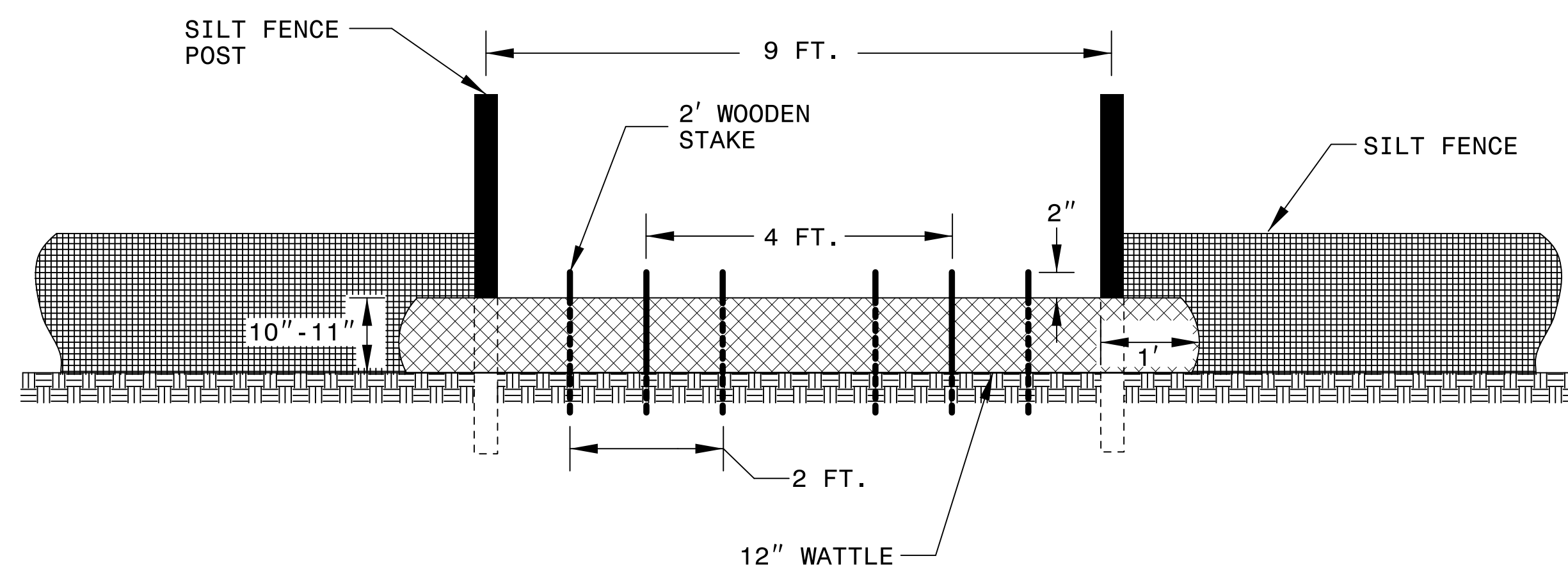


- NOTES**
1. SEED AND PLACE MATTING FOR EROSION CONTROL ON INTERIOR AND EXTERIOR SIDESLOPES.
 2. LIMIT EARTH DIKE HEIGHT TO 5 FT.
 3. FOR BASIN DEPTH OF 3 FT., THE MINIMUM BASIN WIDTH SHALL BE 9 FT.
 4. DETERMINE PRIMARY SPILLWAY WEIR LENGTH (FT.) USING $Q/0.8$, WHERE Q IS FLOW RATE (CFS) INTO BASIN.
 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.).
 7. PLACE SOIL STABILIZATION GEOTEXTILE ON ENTIRE INSIDE OF SKIMMER BASIN 7.02.

SILT FENCE WATTLE BREAK DETAIL



ISOMETRIC VIEW

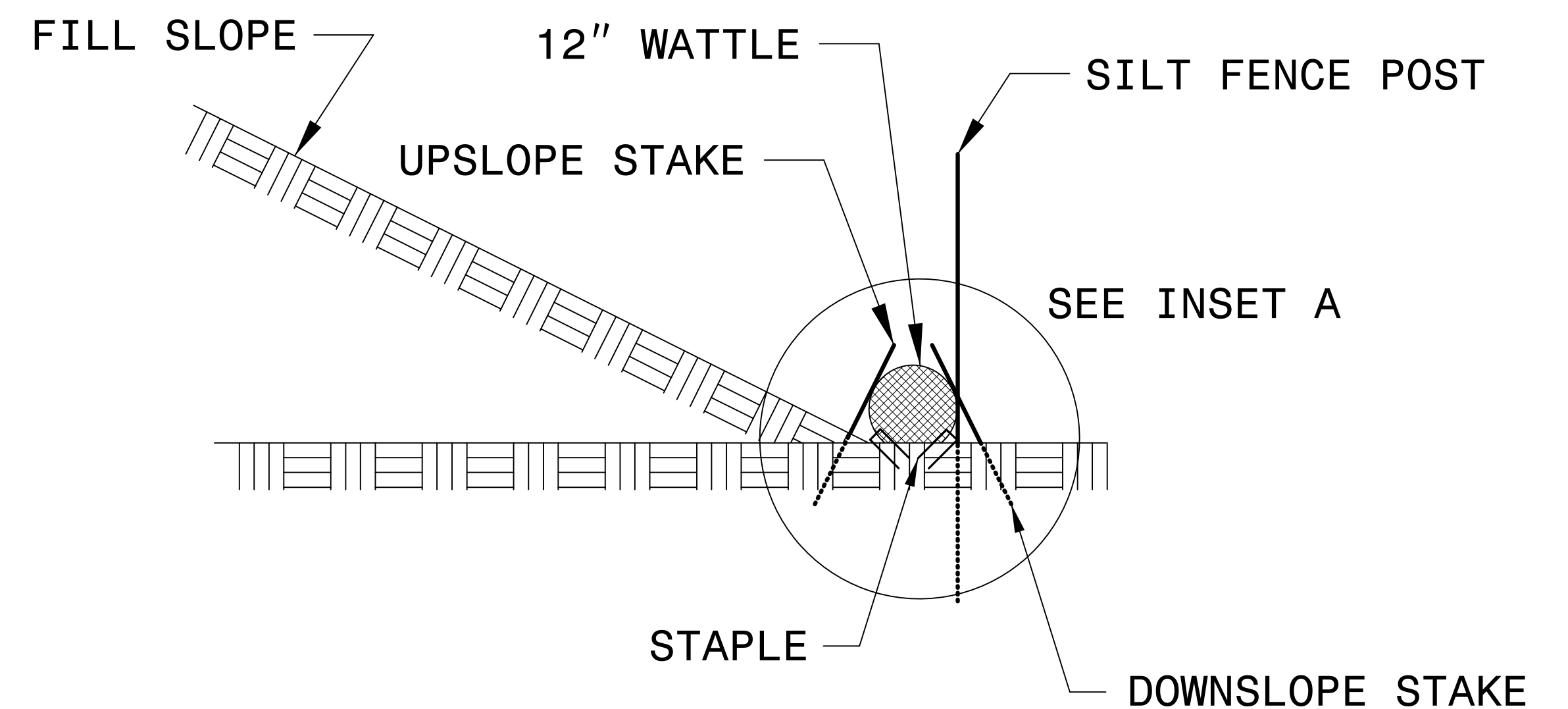
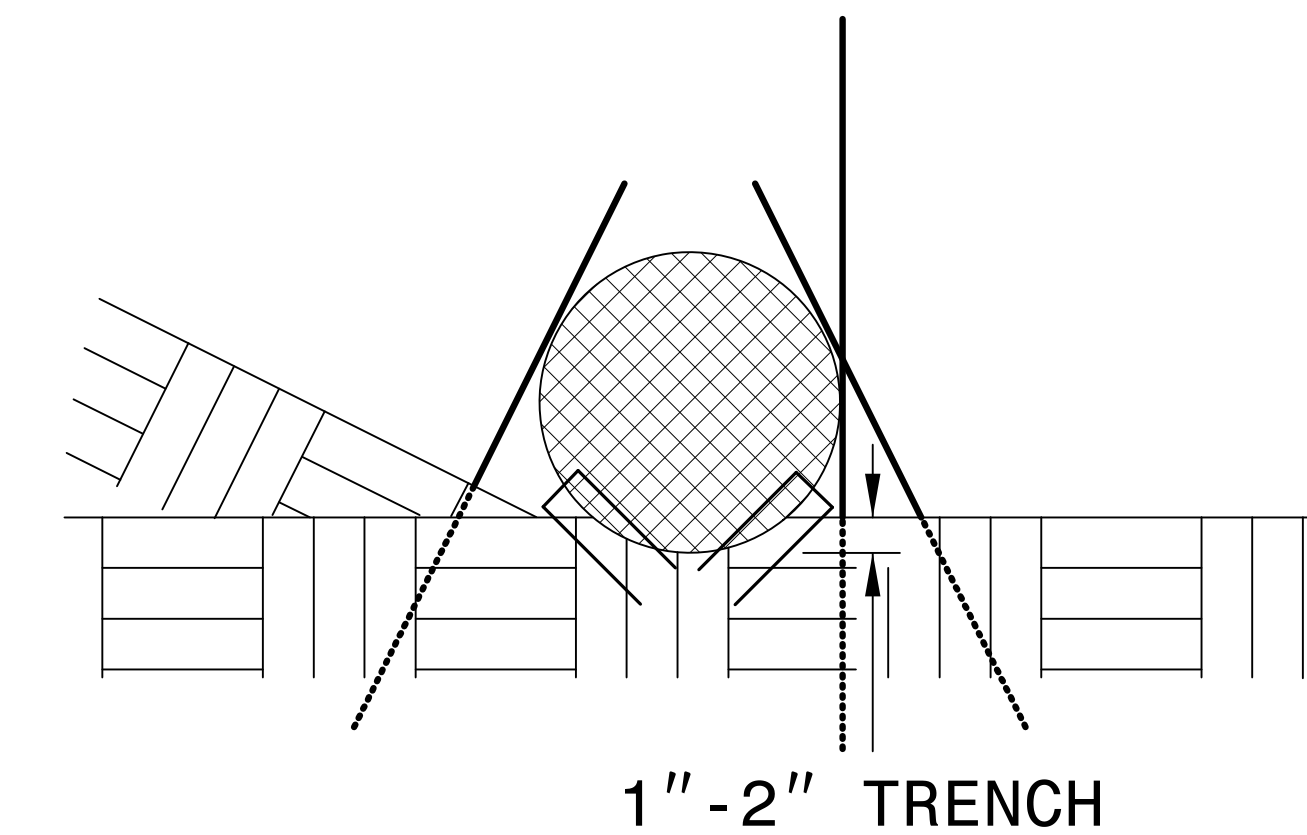


VIEW FROM SLOPE

NOTES:

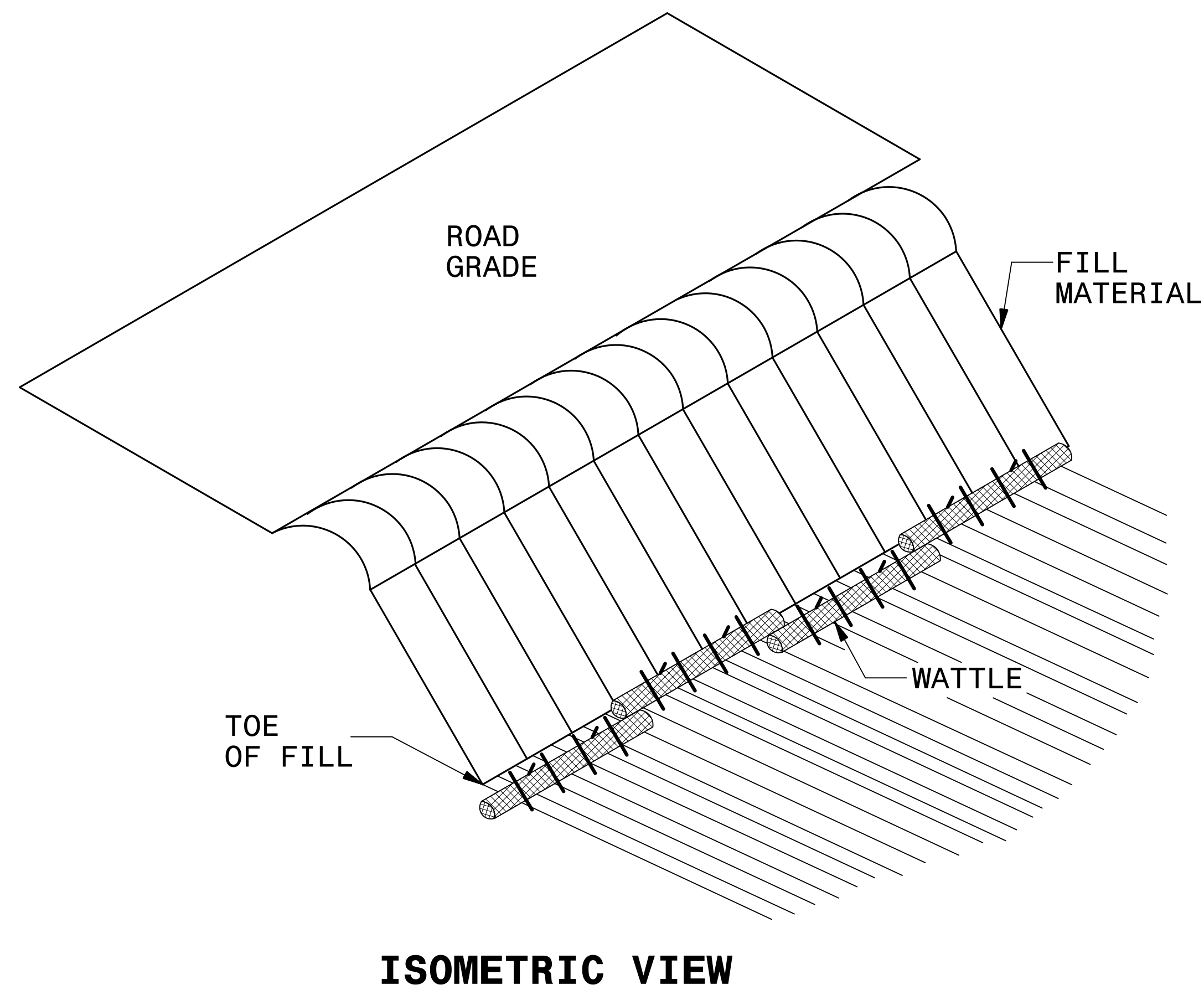
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE AND LENGTH OF 10 FT.
- EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.
- DO NOT PLACE WATTLE ON TOE OF SLOPE.
- USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
- INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT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

COIR FIBER WATTLE BARRIER DETAIL



NOTES:

USE MINIMUM 18 IN. NOMINAL DIAMETER COIR FIBER (COCONUT) 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.

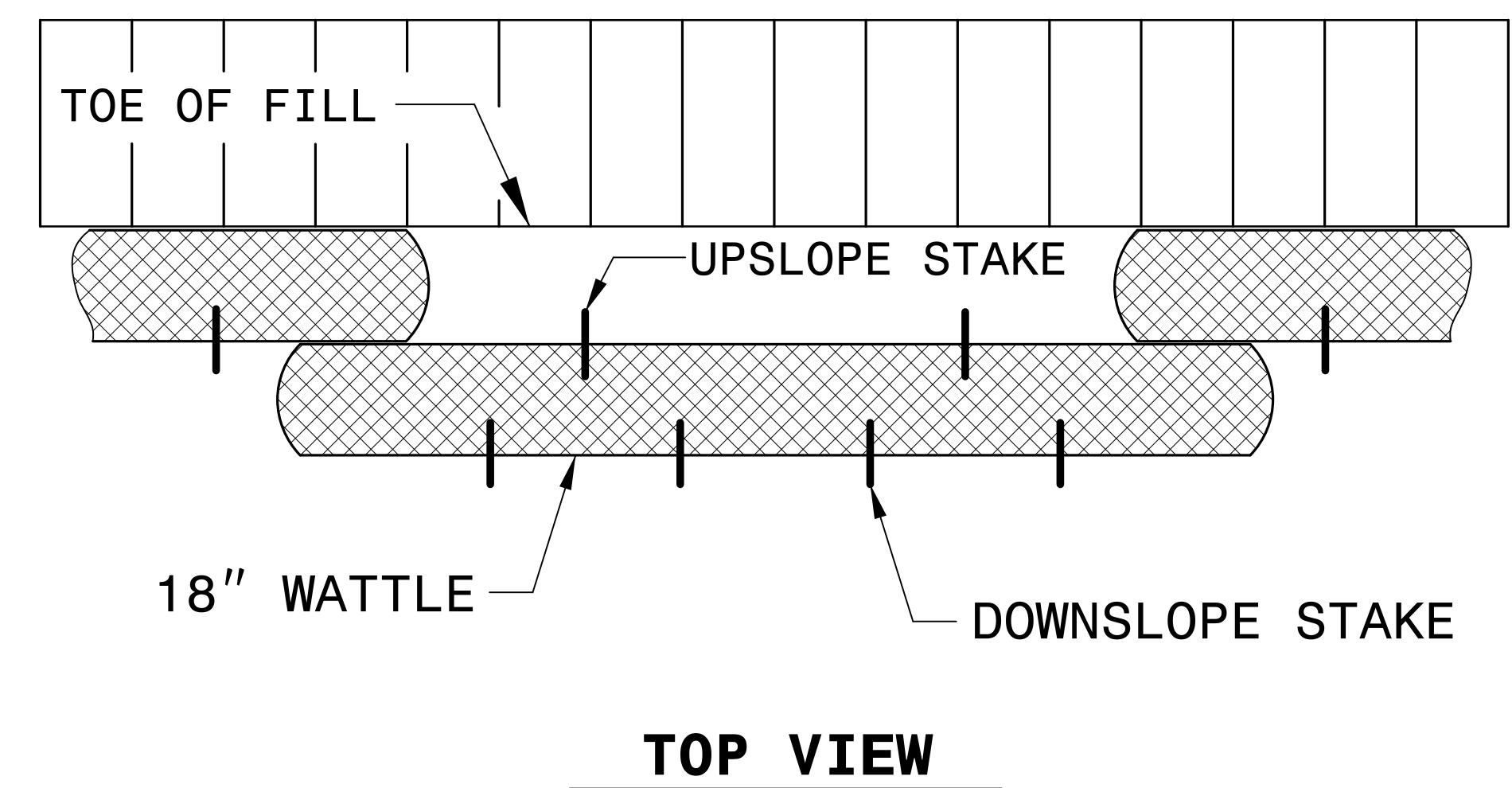
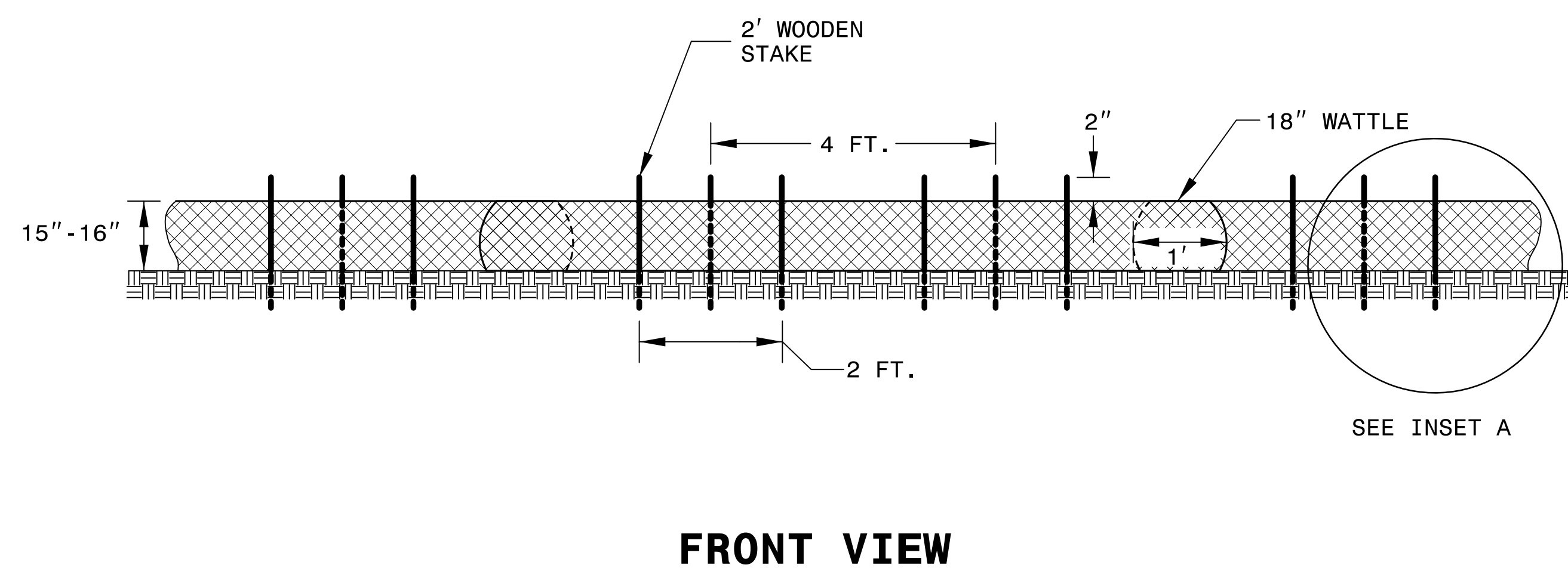
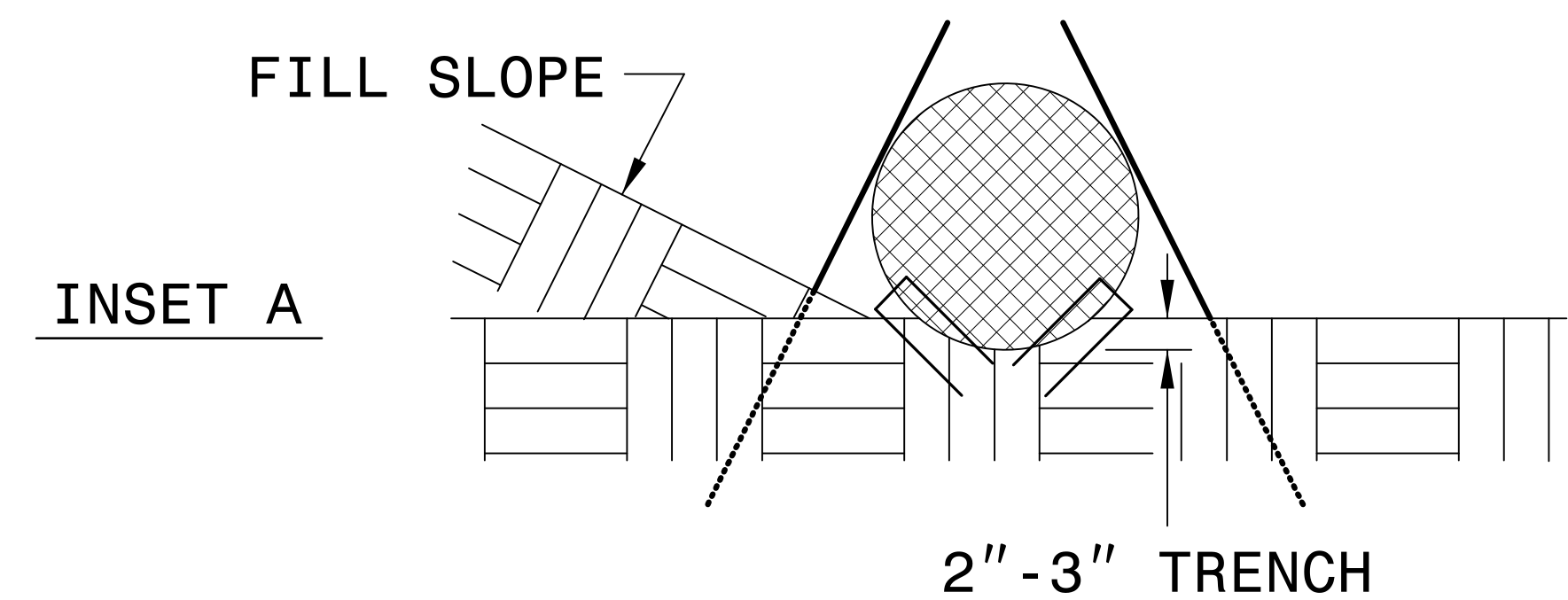
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

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.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

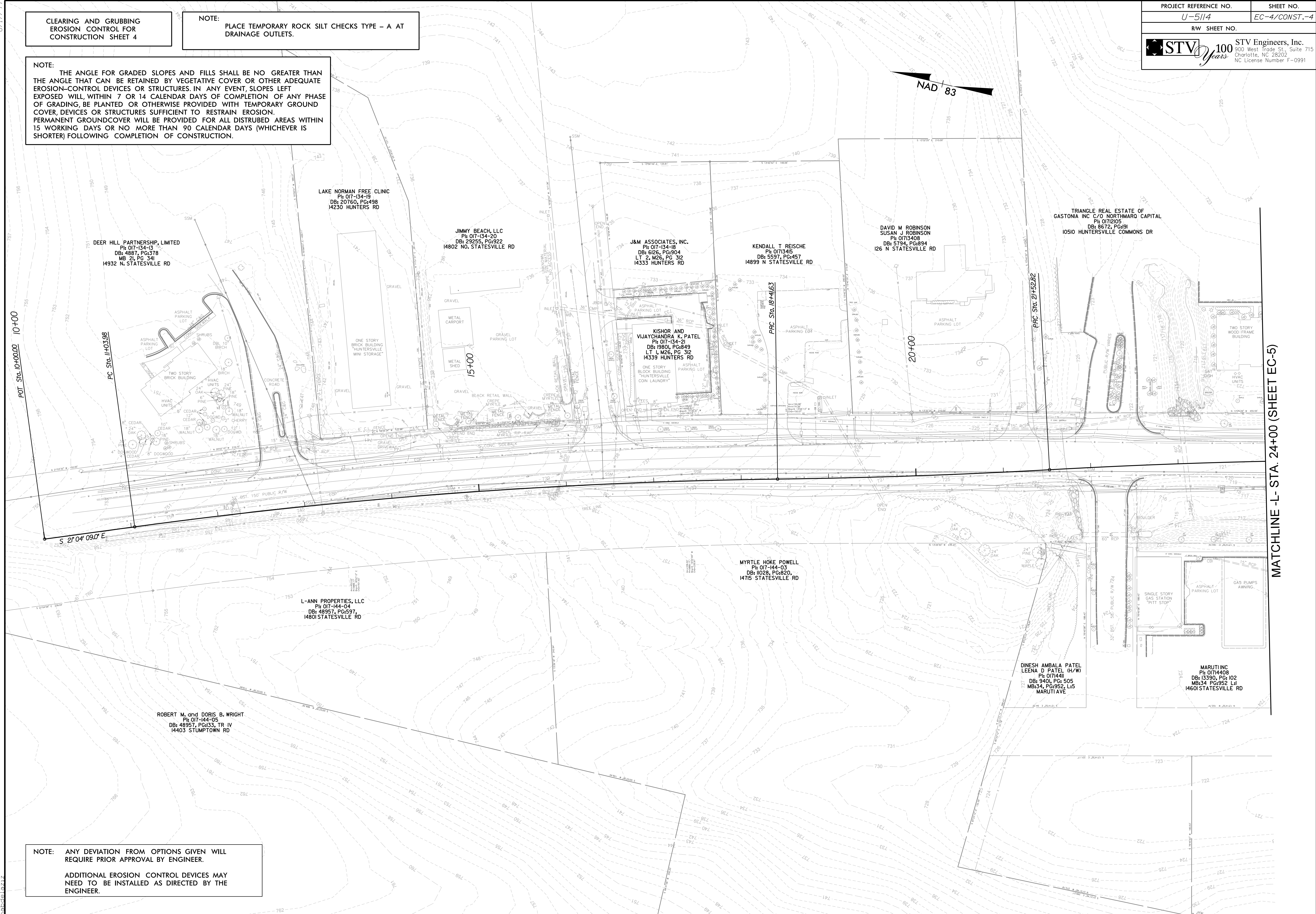
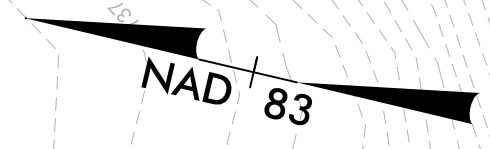
SOIL STABILIZATION TIMEFRAMES

<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.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN
THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE
EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT
EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE
OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND
COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION.
PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN
15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS
SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.



NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL
REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY
NEED TO BE INSTALLED AS DIRECTED BY THE
ENGINEER.

MATCHLINE - L- STA. 24+00 (SHEET EC-5)

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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

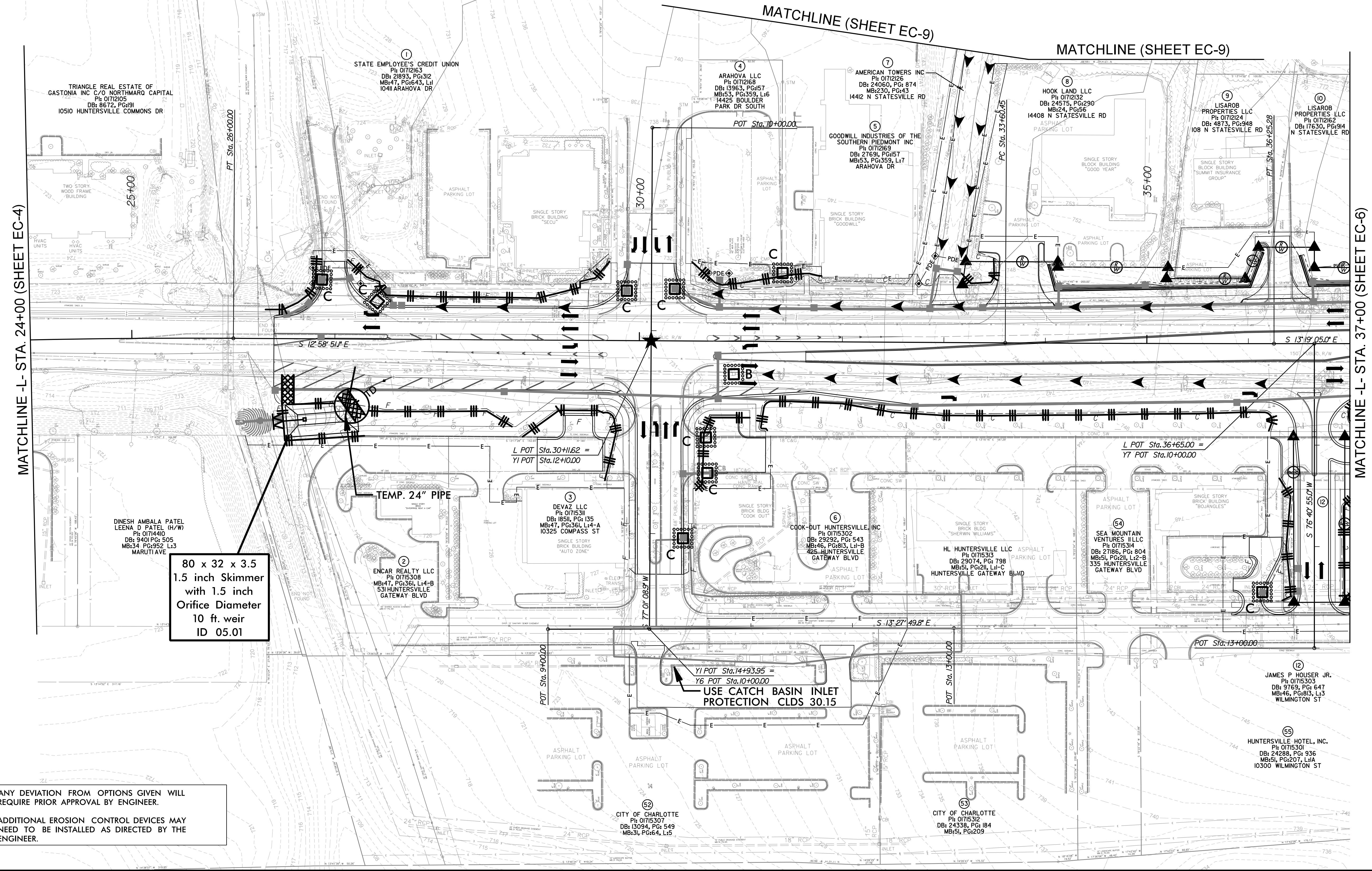
NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE:
USE SPECIAL STILLING BASIN (SILT BAG)
FOR ALL TRENCH DEWATERING ACTIVITIES.

NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK
INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY
POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.

NOTE:
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80 x 32 x 3.5
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
10 ft. weir
ID 05.01

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REQUIRE PRIOR APPROVAL BY ENGINEER.

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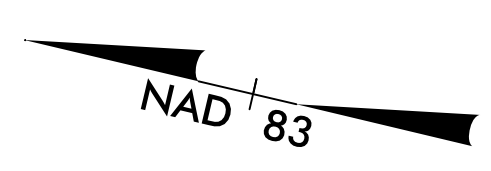
CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
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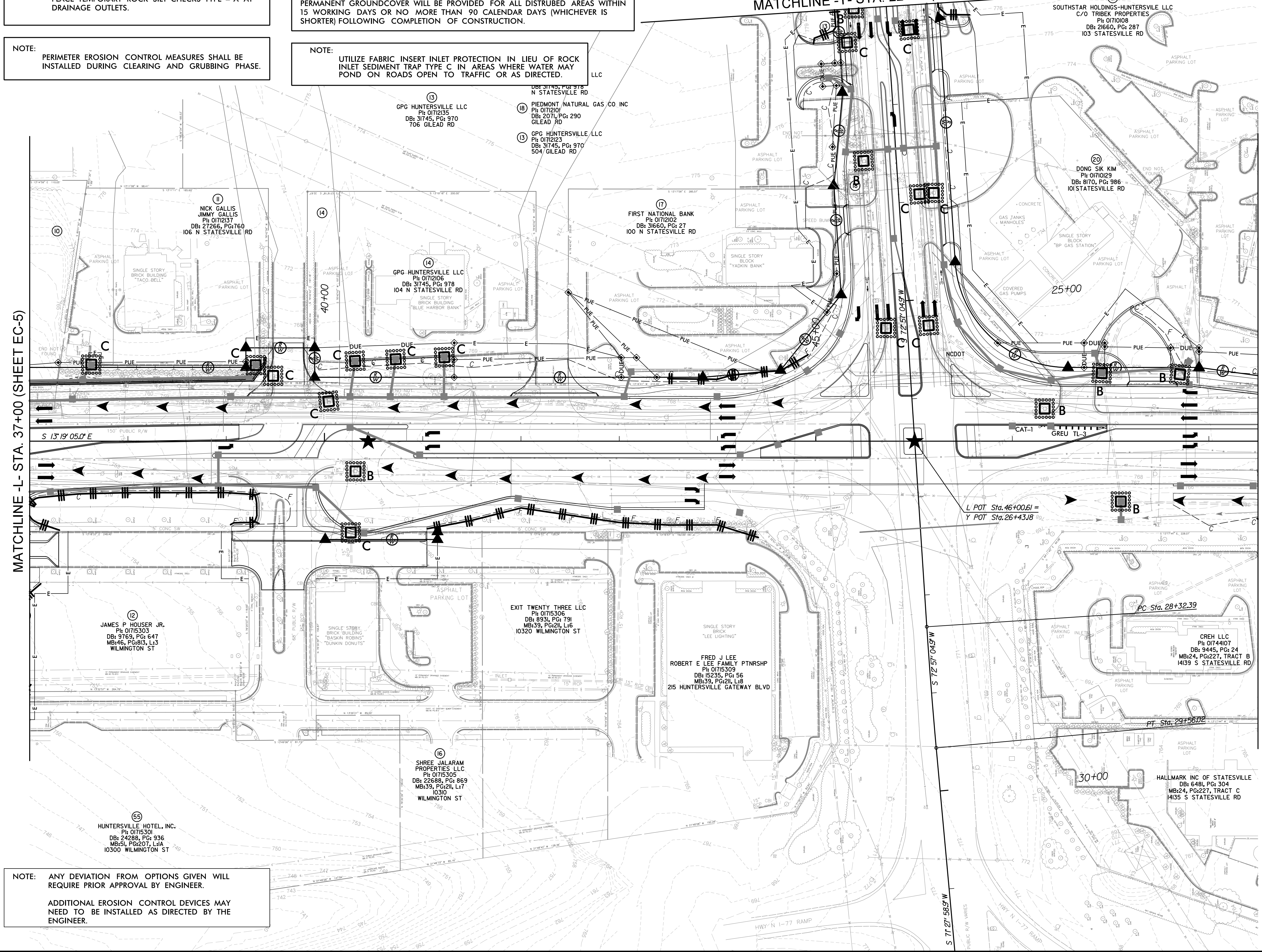
NOTE:
UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK
INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY
POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.



MATCHLINE -Y- STA. 22+00 (SHEET EC-8)

MATCHLINE -L- STA. 37+00 (SHEET EC-5)

MATCHLINE -L- STA. 49+50 (SHEET EC-7)



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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7

NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

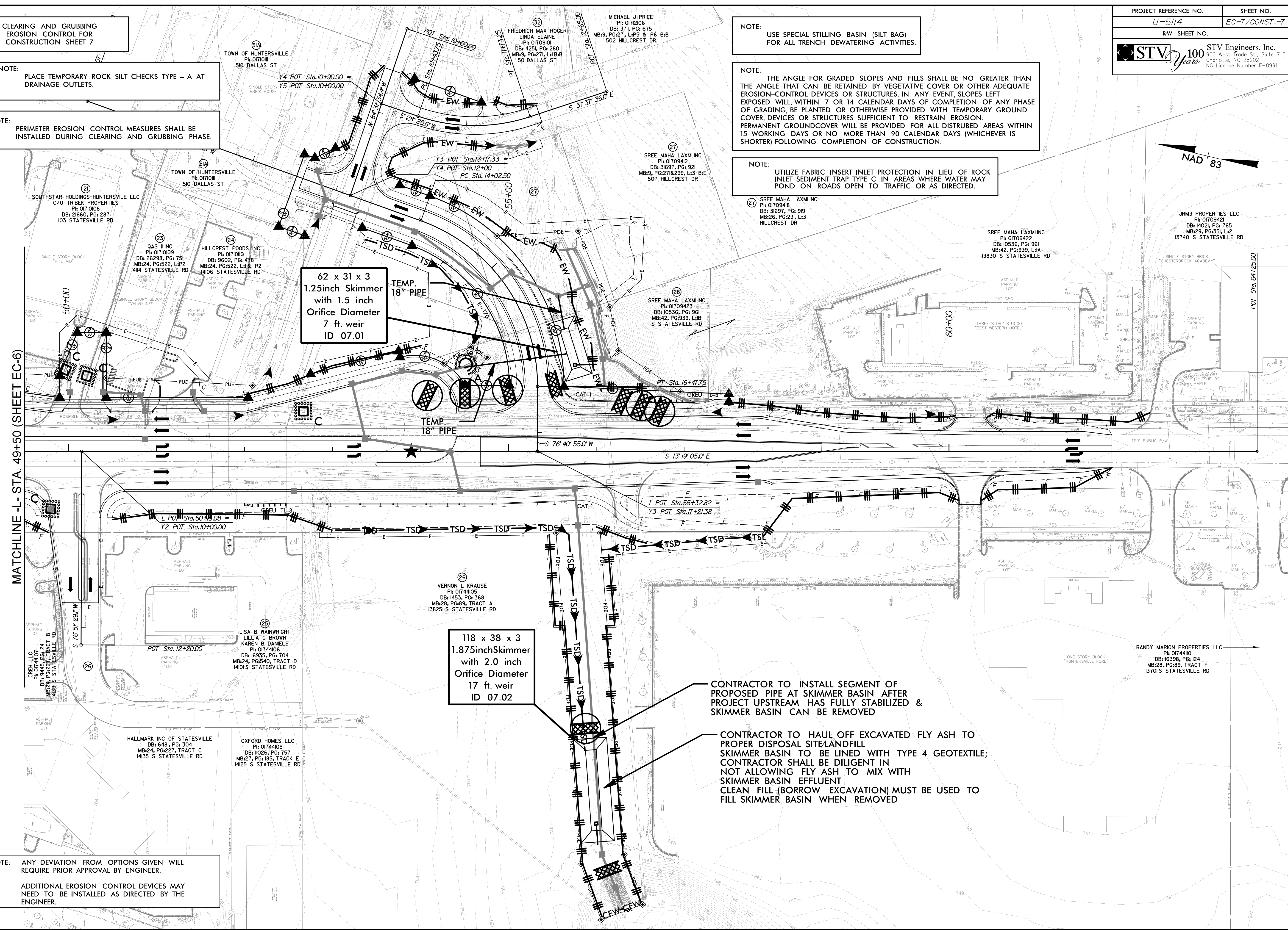
NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE:
USE SPECIAL STILLING BASIN (SILT BAG)
FOR ALL TRENCH DEWATERING ACTIVITIES.

NOTE:
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NOTE:
UTILIZE FABRIC INSERT PROTECTION IN LIEU OF ROCK
INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY
POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.

MATCHLINE -L- STA. 49+50 (SHEET EC-6)



62 x 31 x 3
1.25inch Skimmer
with 1.5 inch
Orifice Diameter
7 ft. weir
ID 07.01

118 x 38 x 3
1.875inch Skimmer
with 2.0 inch
Orifice Diameter
17 ft. weir
ID 07.02

CONTRACTOR TO INSTALL SEGMENT OF
PROPOSED PIPE AT SKIMMER BASIN AFTER
PROJECT UPSTREAM HAS FULLY STABILIZED &
SKIMMER BASIN CAN BE REMOVED

CONTRACTOR TO HAUL OFF EXCAVATED FLY ASH TO
PROPER DISPOSAL SITE/LANDFILL
SKIMMER BASIN TO BE LINED WITH TYPE 4 GEOTEXTILE;
CONTRACTOR SHALL BE DILIGENT IN
NOT ALLOWING FLY ASH TO MIX WITH
SKIMMER BASIN EFFLUENT
CLEAN FILL (BORROW EXCAVATION) MUST BE USED TO
FILL SKIMMER BASIN WHEN REMOVED

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ENGINEER.

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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8

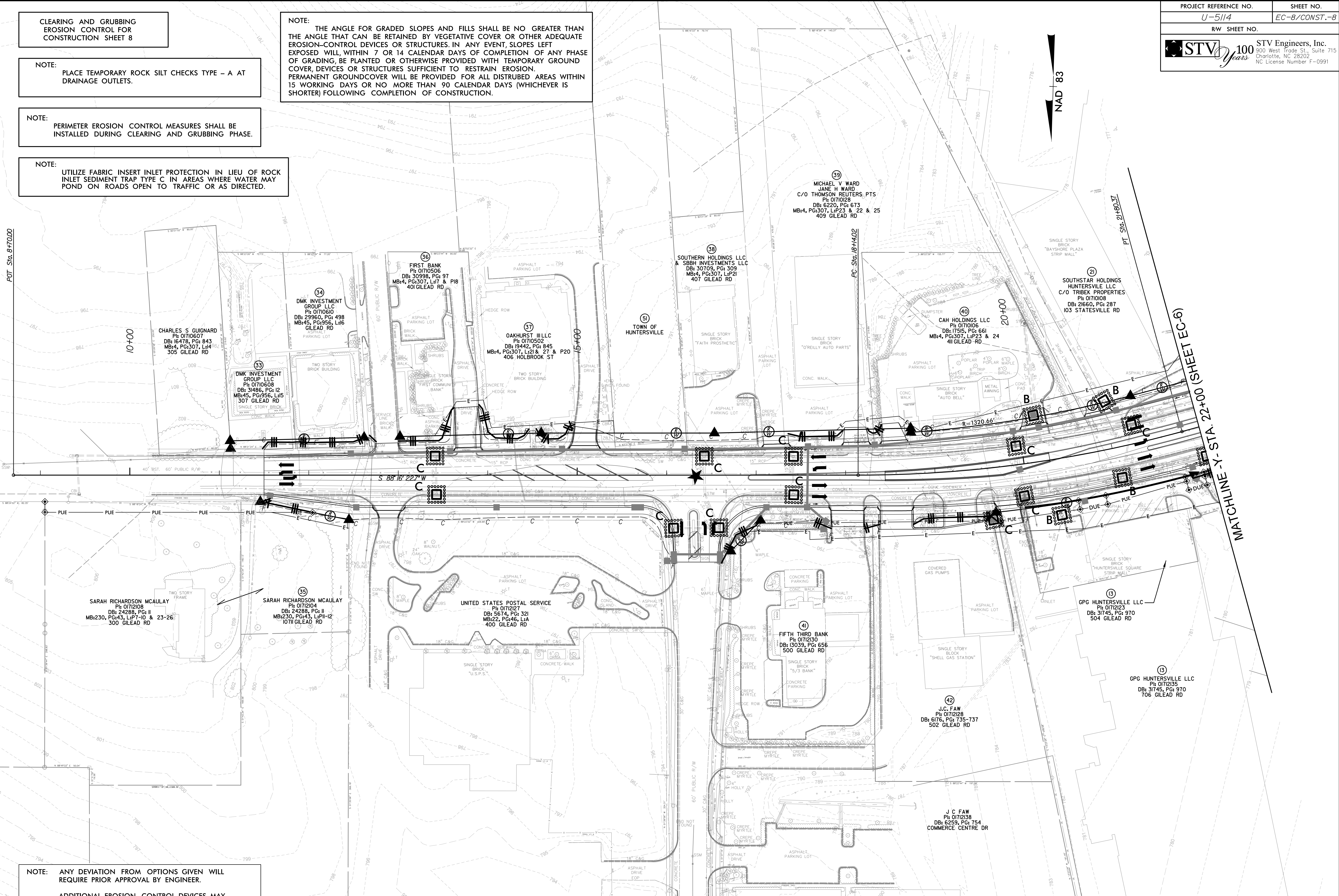
NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
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NOTE:
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ENGINEER.

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CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 9

NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE
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MATCHLINE (SHEET EC-5)

MATCHLINE (SHEET EC-5)

MATCHLINE (SHEET EC-6)

MATCHLINE (SHEET EC-8)

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ENGINEER.

PIEDMONT INC
Pl: 017269
DB: 27691, PG: 57
MB: 53, PG: 359, L: 7
ARAHOVA DR

JAMES FUNERAL SERVICES LLC
Pl: 017266
DB: 26647, PG: 81
MB: 53, PG: 359, L: 4
ARAHOVA DR

PARKVIEW NC ASSOCIATES LP
Pl: 017240
DB: 904, PG: 703
MB: 30, PG: 845, L: B
301 COLUMBIA DR

AMERICAN TOWERS INC
Pl: 017226
DB: 24060, PG: 874
MB: 230, PG: 43
1442 N STATESVILLE RD

PIEDMONT NATURAL GAS INC
Pl: 017271
DB: 26150, PG: 660
MB: 53, PG: 359, L: 3
1445 BOULDER PARK DR SOUTH

PARKVIEW NC ASSOCIATES LP
Pl: 017287
DB: 904, PG: 703
MB: 30, PG: 845, L: D
221 COMMERCE CENTRE DR

FOUR & ASSOCIATES
Pl: 017234
DB: 5542, PG: 39
MB: 55, PG: 540/541, L: 2
COMMERCE CENTRE DR

JOLLEY-NESTOR
ENTERPRISES LLC
Pl: 017261
DB: 15341, PG: 144
MB: 39, PG: 393, TRACT: 2
122 COMMERCE CENTRE DR

CHARLES FAMILY LP
Pl: 017233
DB: 10518, PG: 350
MB: 24, PG: 264, TRACT: 1
102 COMMERCE CENTRE DR

GPG HUNTERVILLE LLC
Pl: 017220
DB: 31745, PG: 970
706 GILEAD RD

NHC PARTNERSHIP 8 LP
Pl: 017256
DB: 10408, PG: 134
MB: 30, PG: 845, L: A
COMMERCE CENTRE DR

GLENN GARRIS
DADRE GARRIS
Pl: 017239
DB: 8170, PG: 946
MB: 24, PG: 264, PART OF TRACT 2
115 COMMERCE CENTRE DR

J C FAW
Pl: 017238
DB: 6259, PG: 754
COMMERCE CENTRE DR

GPG HUNTERVILLE LLC
Pl: 017235
DB: 31745, PG: 970
706 GILEAD RD

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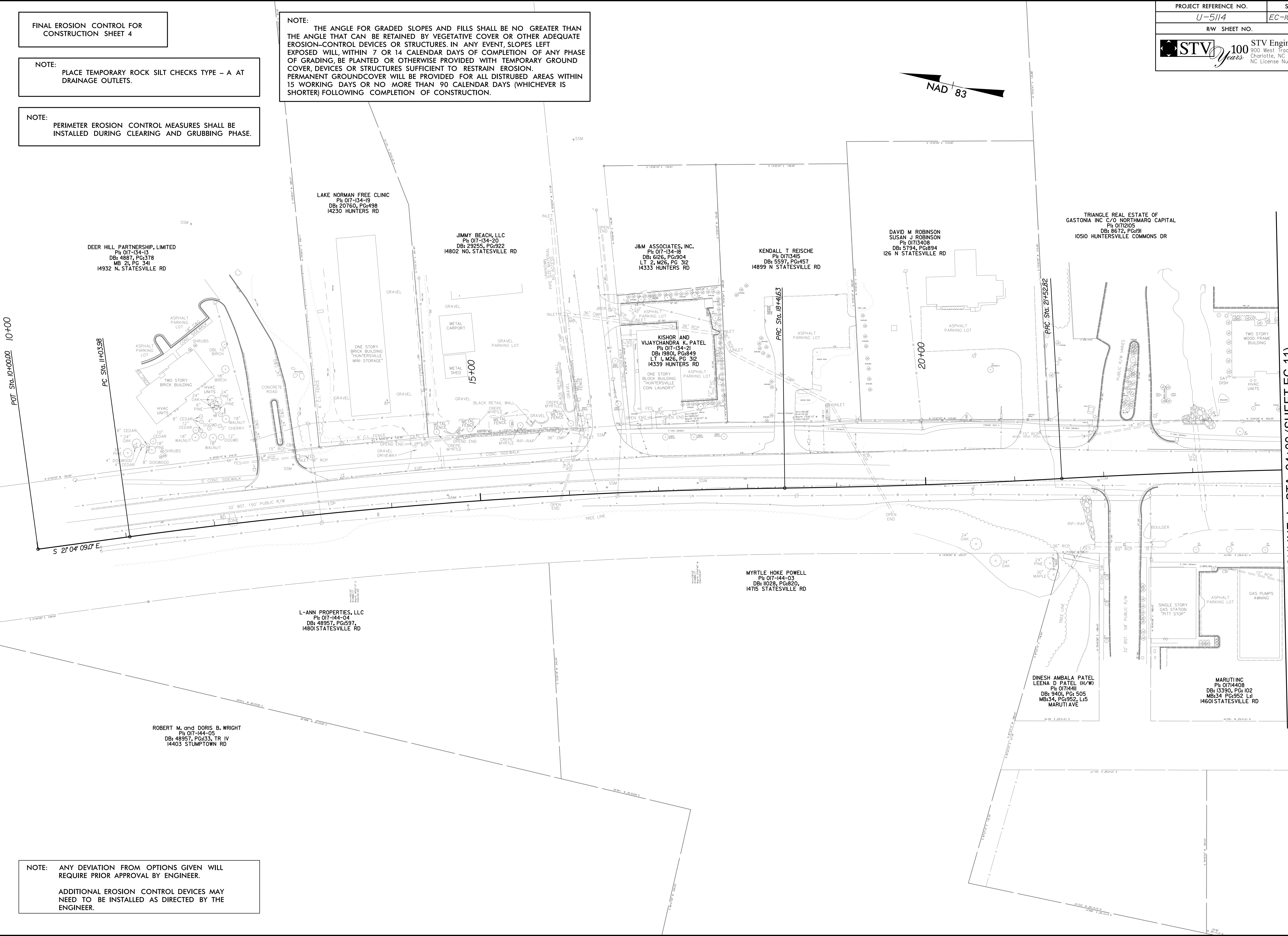
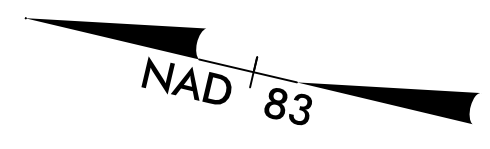
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FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4

NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE:
THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.



NOTE:
ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

MATCHLINE - L- STA. 24+00 (SHEET EC-11)

8/17/99

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mobile1021



FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 5

NOTE: USE SPECIAL STILLING BASIN (SILT BAG) FOR ALL TRENCH DEWATERING ACTIVITIES.

NOTE: PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

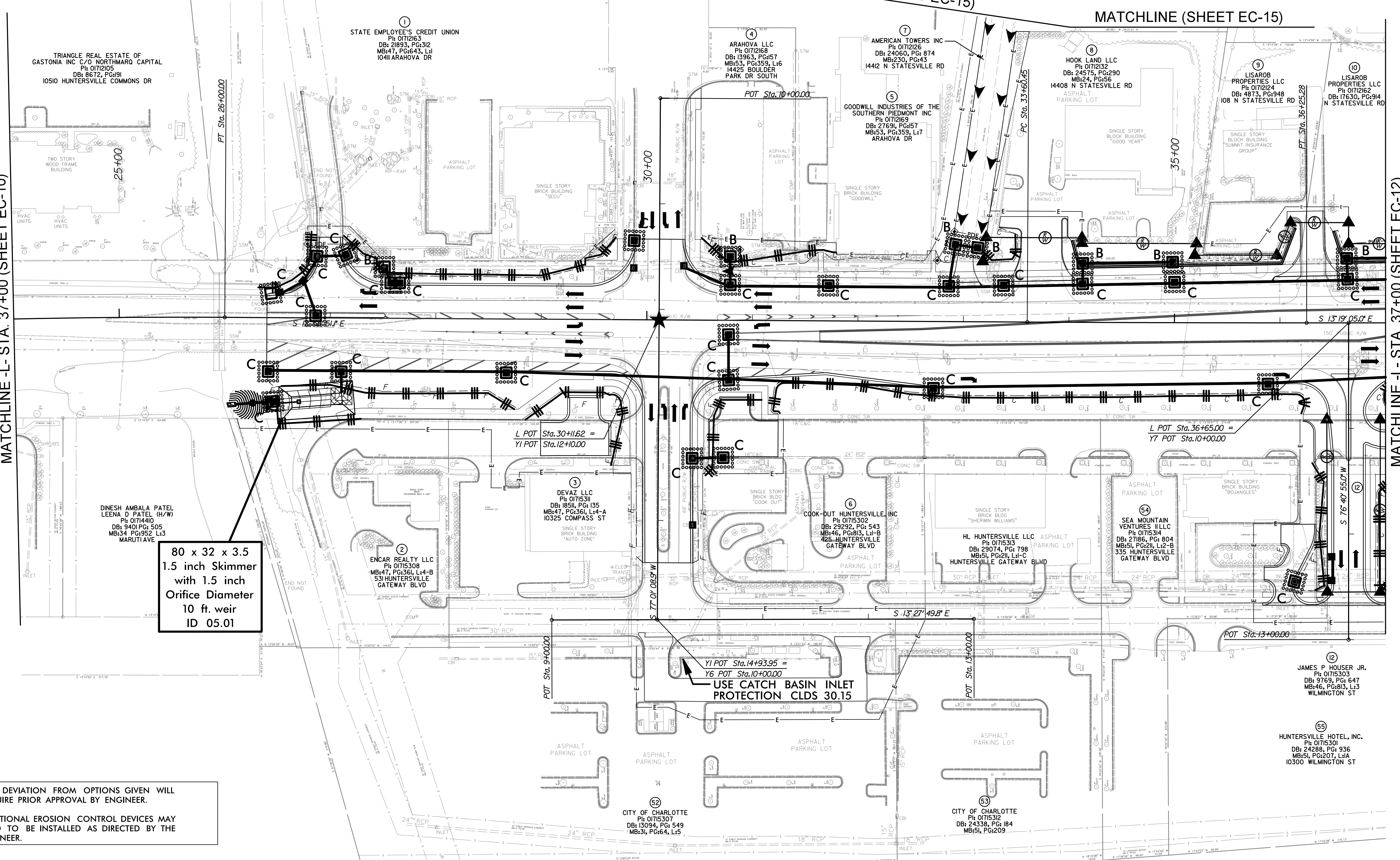
NOTE: THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.

MATCHLINE -L- STA. 37+00 (SHEET EC-10)

MATCHLINE -L- STA. 37+00 (SHEET EC-12)



80 x 32 x 3.5
1.5 inch Skimmer
with 1.5 inch
Orifice Diameter
10 ft. weir
ID 05.01

Y1 POT Sta. 14+93.95 =
Y6 POT Sta. 10+00.00
USE CATCH BASIN INLET
PROTECTION CLDS 30.15

NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

6/27/16

6/14/2018
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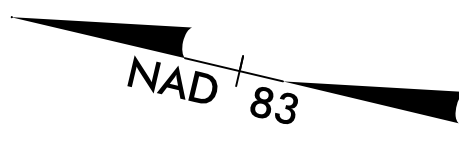
FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 6

NOTE: PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.

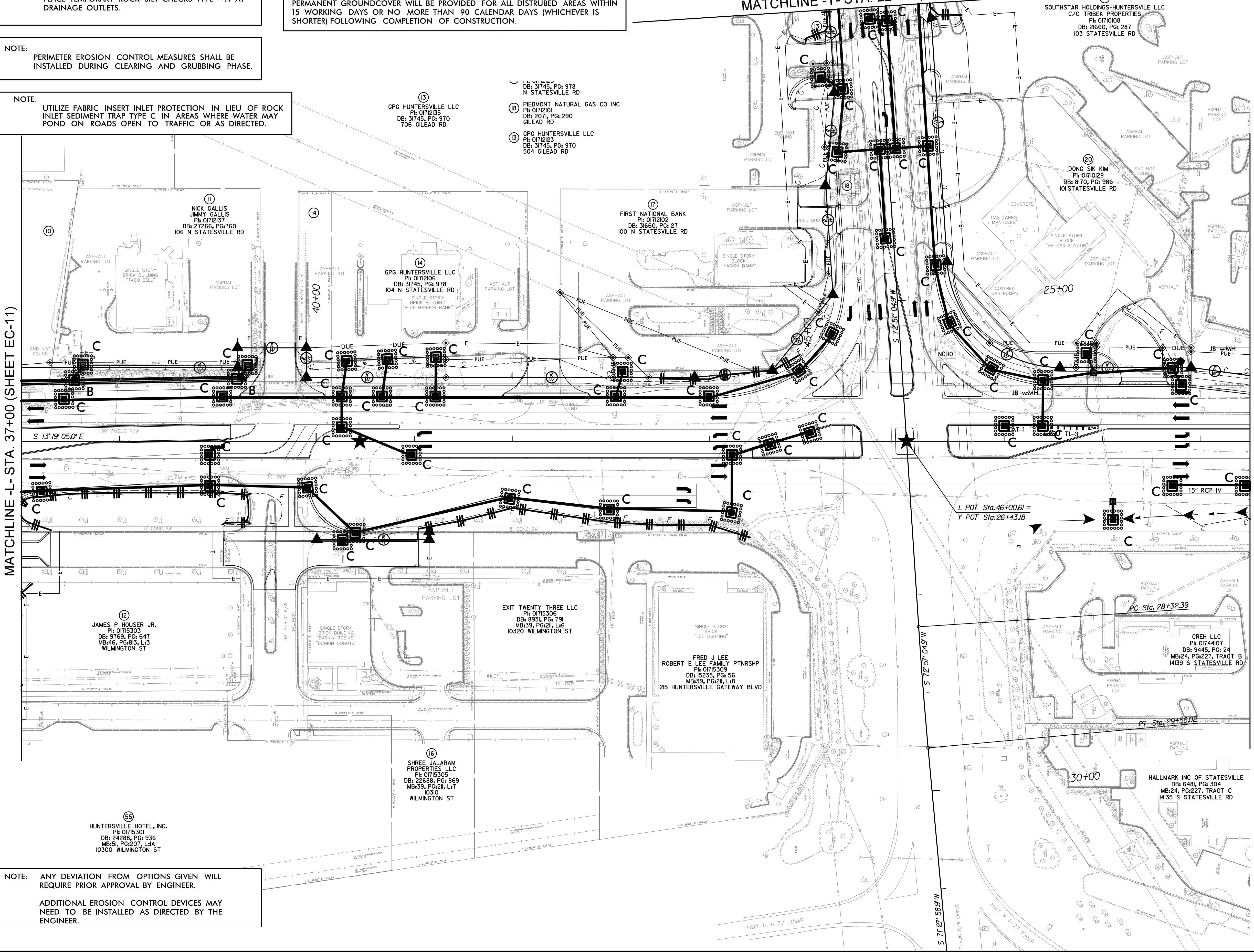
NOTE: THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.



MATCHLINE -Y- STA. 22+00 (SHEET EC-14)

MATCHLINE -L- STA. 37+00 (SHEET EC-11)

MATCHLINE -L- STA. 49+50 (SHEET EC-13)



NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

- ⑬ GPG HUNTERSVILLE LLC
Pl: 0172135
DB: 31745, PG: 970
706 GILEAD RD
- ⑭ GPG HUNTERSVILLE LLC
Pl: 0172135
DB: 31745, PG: 978
104 N STATESVILLE RD
- ⑮ FIRST NATIONAL BANK
Pl: 0172102
DB: 31660, PG: 27
100 N STATESVILLE RD
- ⑯ GPG HUNTERSVILLE LLC
Pl: 0172123
DB: 31745, PG: 970
504 GILEAD RD
- ⑰ SOUTHSTAR HOLDINGS-HUNTSVILLE LLC
C/O TRIBEX PROPERTIES
Pl: 0170100
DB: 21660, PG: 287
103 STATESVILLE RD
- ⑱ DONG SIK KIM
Pl: 0170129
DB: 8170, PG: 986
101 STATESVILLE RD
- ⑳ NICK GALLIS
JIMMY GALLIS
Pl: 0171237
DB: 27266, PG: 760
106 N STATESVILLE RD
- ㉑ JAMES P HOUSER JR.
Pl: 0175303
DB: 9769, PG: 647
MB: 46, PG: 813, L: 3
WILMINGTON ST
- ㉒ SHREE JALARAM PROPERTIES, LLC
Pl: 0175305
DB: 22688, PG: 869
MB: 39, PG: 211, L: 7
10310 WILMINGTON ST
- ㉓ HUNTSVILLE HOTEL, INC.
Pl: 0175301
DB: 24288, PG: 936
MB: 51, PG: 207, L: 1A
10300 WILMINGTON ST
- ㉔ EXIT TWENTY THREE LLC
Pl: 0175306
DB: 8931, PG: 791
MB: 39, PG: 211, L: 6
10320 WILMINGTON ST
- ㉕ FRED J LEE
ROBERT E LEE FAMILY PTRNSHP
Pl: 0175309
DB: 15235, PG: 56
MB: 39, PG: 211, L: 8
215 HUNTSVILLE GATEWAY BLVD
- ㉖ CREH LLC
Pl: 0174407
DB: 9445, PG: 24
MB: 24, PG: 227, TRACT B
14139 S STATESVILLE RD
- ㉗ HALLMARK INC OF STATESVILLE
DB: 6481, PG: 304
MB: 24, PG: 227, TRACT C
14135 S STATESVILLE RD

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FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 7

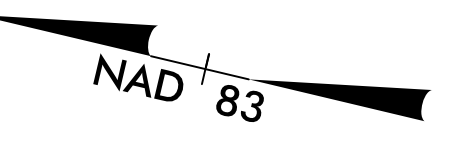
NOTE:
PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

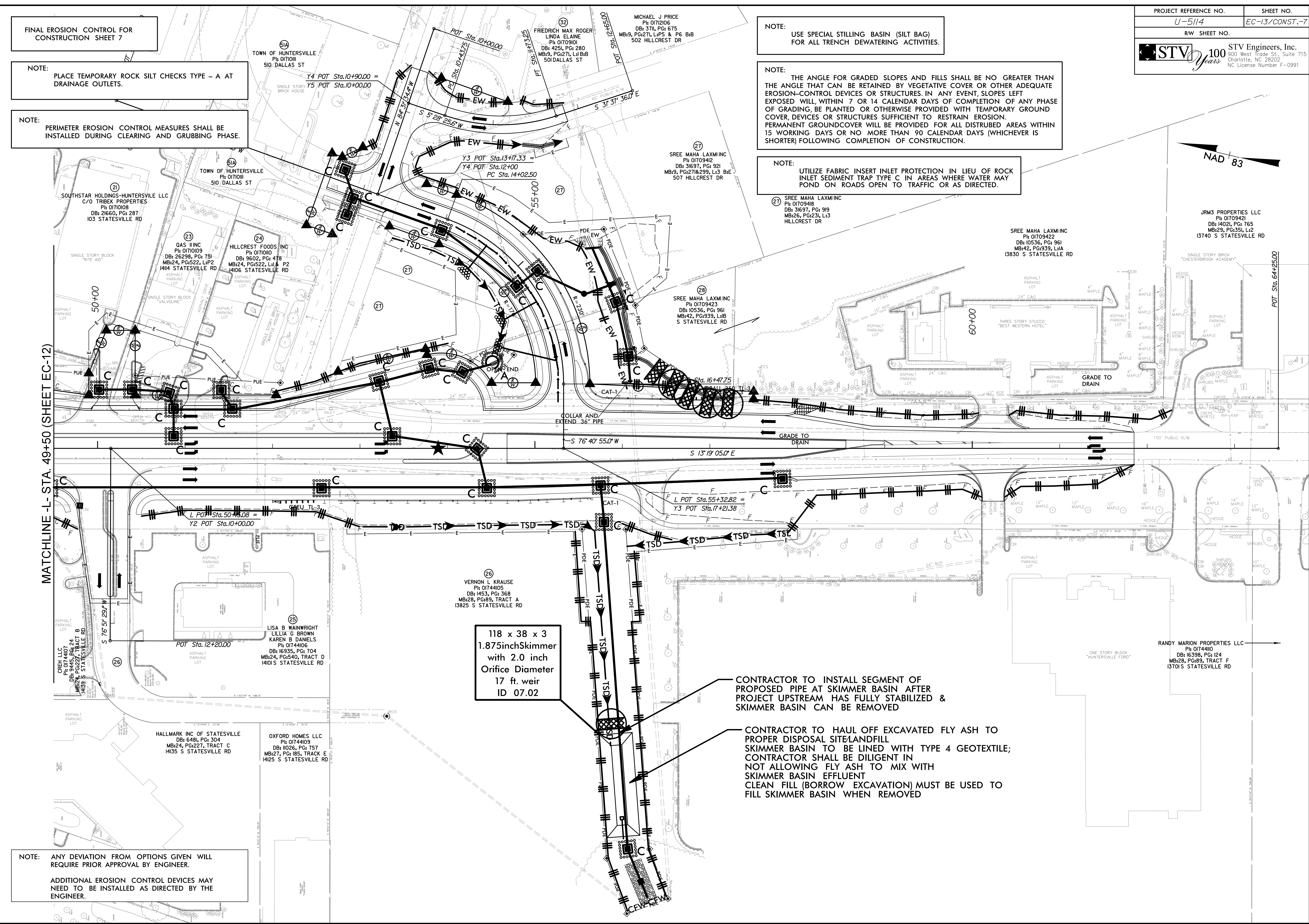
NOTE:
USE SPECIAL STILLING BASIN (SILT BAG) FOR ALL TRENCH DEWATERING ACTIVITIES.

NOTE:
THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

NOTE:
UTILIZE FABRIC INSERT PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.



MATCHLINE L- STA. 49+50 (SHEET EC-12)



NOTE:
ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

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FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 8

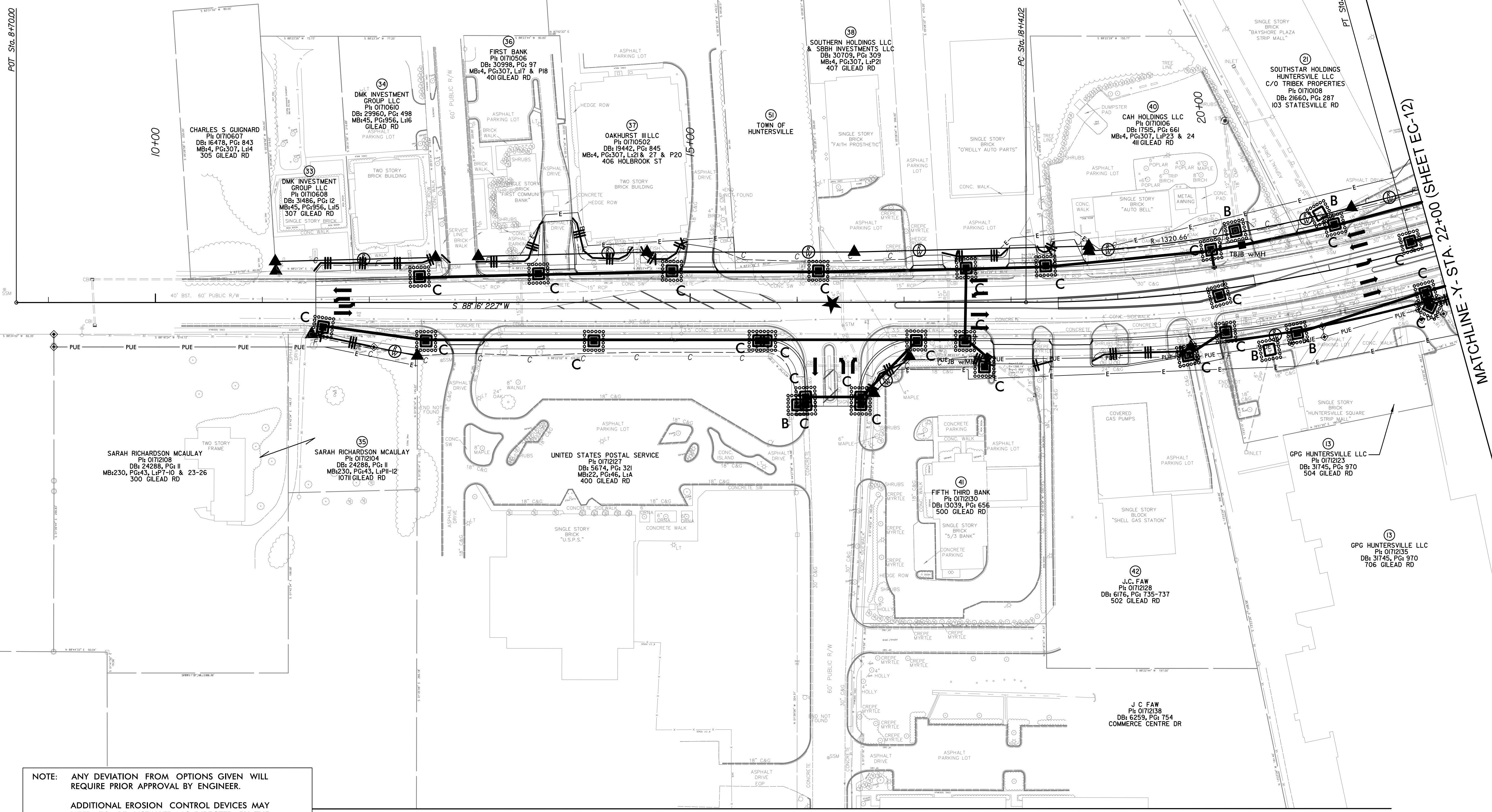
NOTE: PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.

NOTE: THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

POT Sta. 8+70.00



NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

MATCHLINE (SHEET EC-15)

MATCHLINE - Y-STA. 22+00 (SHEET EC-12)

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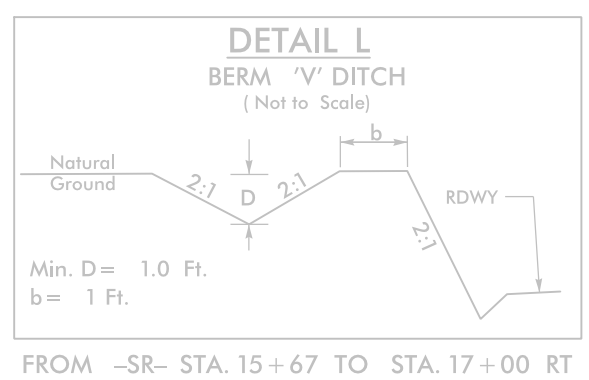
FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 9

NOTE: PLACE TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.

NOTE: PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.

NOTE: THE ANGLE FOR GRADED SLOPES AND FILLS SHALL BE NO GREATER THAN THE ANGLE THAT CAN BE RETAINED BY VEGETATIVE COVER OR OTHER ADEQUATE EROSION-CONTROL DEVICES OR STRUCTURES. IN ANY EVENT, SLOPES LEFT EXPOSED WILL, WITHIN 7 OR 14 CALENDAR DAYS OF COMPLETION OF ANY PHASE OF GRADING, BE PLANTED OR OTHERWISE PROVIDED WITH TEMPORARY GROUND COVER, DEVICES OR STRUCTURES SUFFICIENT TO RESTRAIN EROSION. PERMANENT GROUND COVER WILL BE PROVIDED FOR ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR NO MORE THAN 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING COMPLETION OF CONSTRUCTION.

NOTE: UTILIZE FABRIC INSERT INLET PROTECTION IN LIEU OF ROCK INLET SEDIMENT TRAP TYPE C IN AREAS WHERE WATER MAY POND ON ROADS OPEN TO TRAFFIC OR AS DIRECTED.



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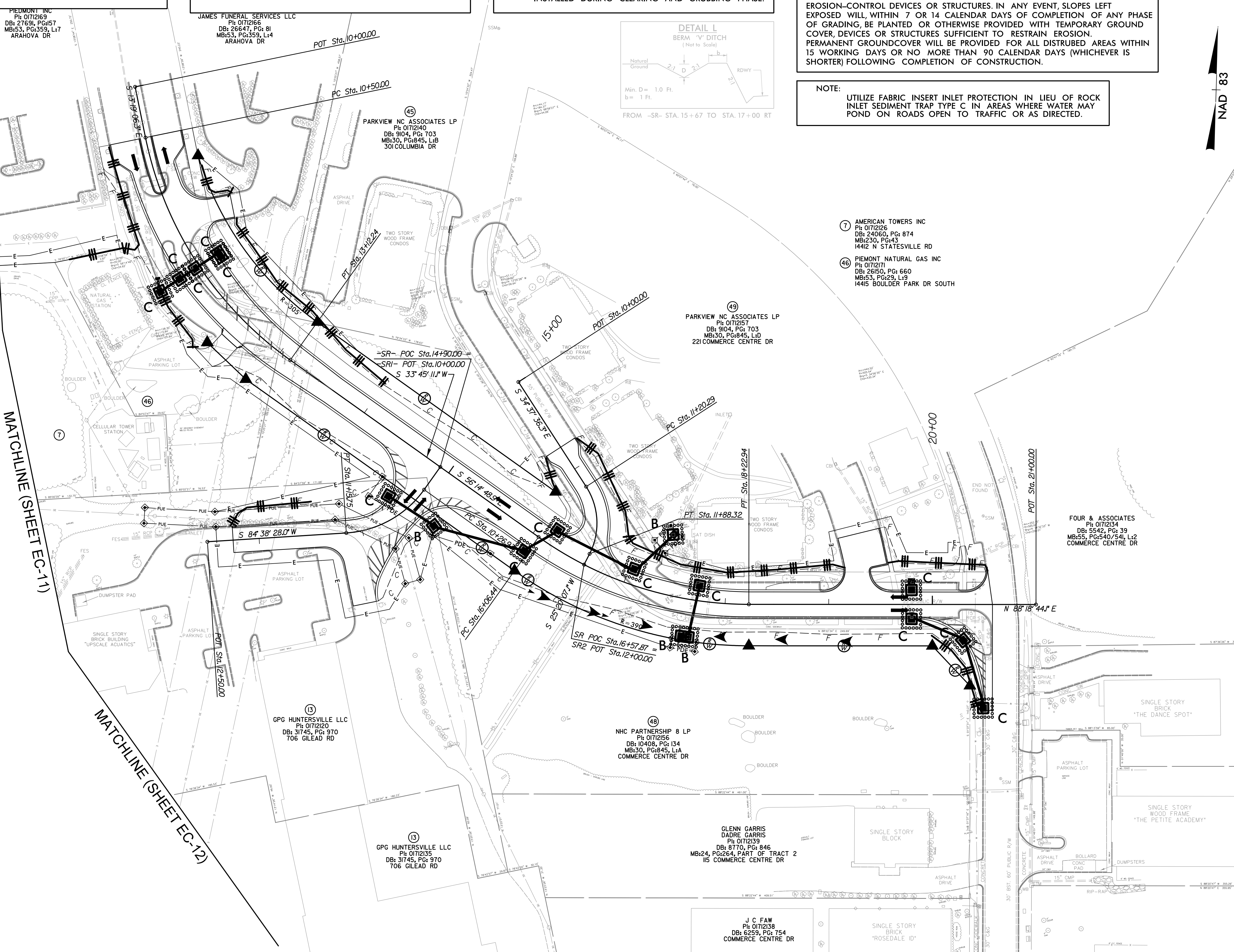
MATCHLINE (SHEET EC-11)

MATCHLINE (SHEET EC-11)

MATCHLINE (SHEET EC-12)

MATCHLINE (SHEET EC-14)

NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.
ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.



6/27/16

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