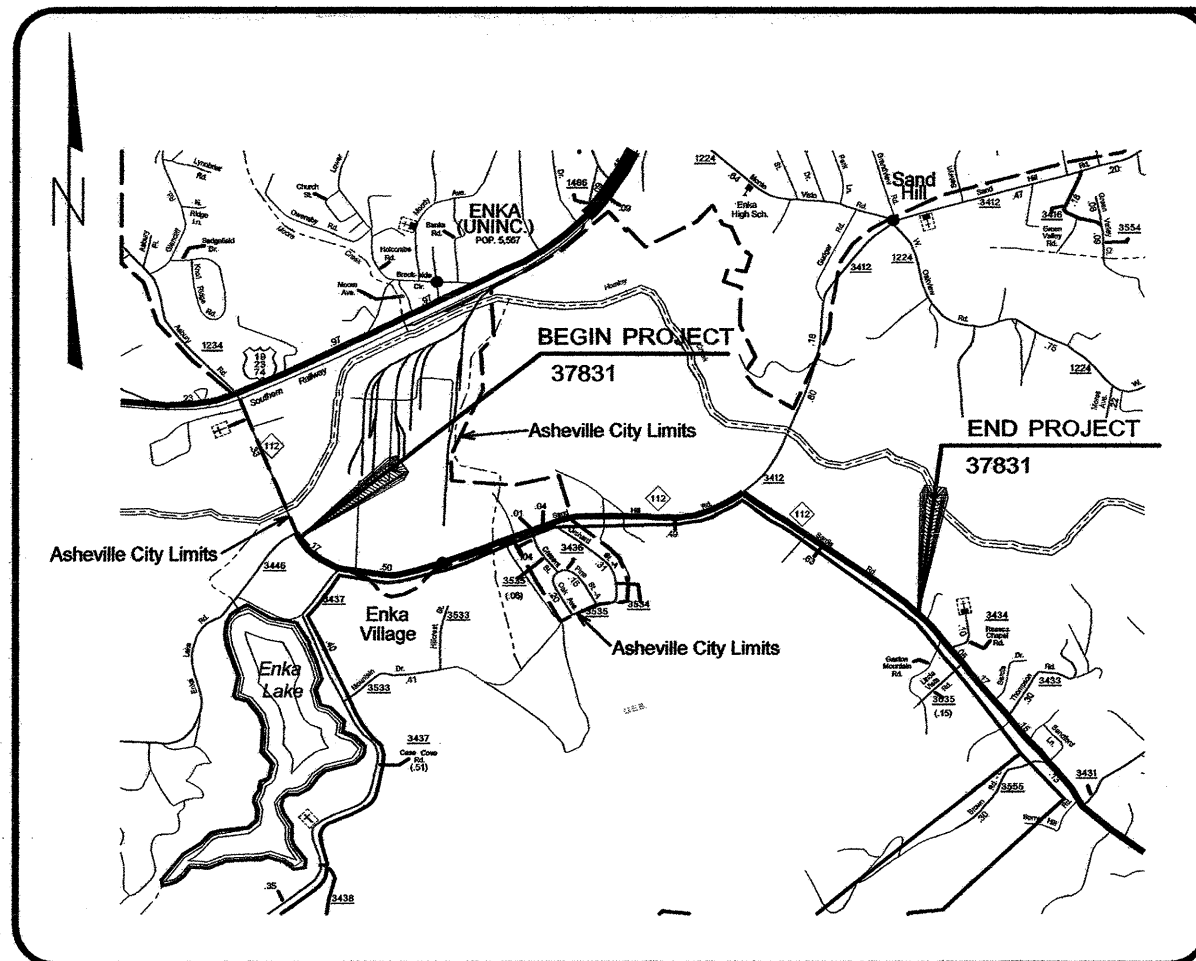


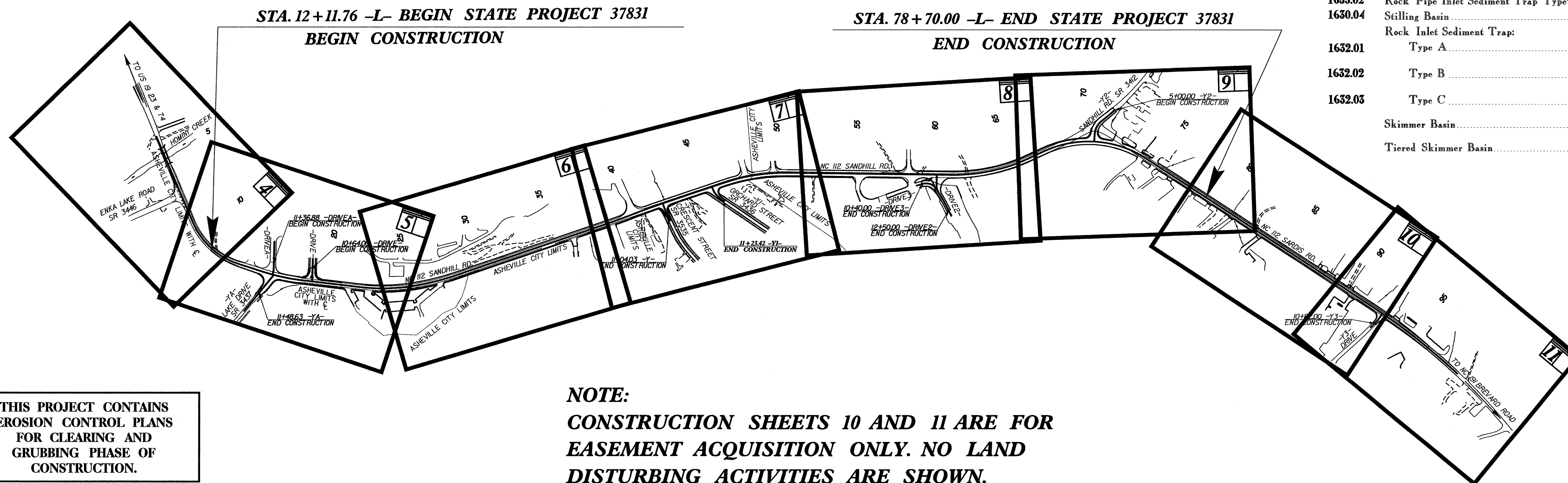
WBS 37831

PROJECT: MAI3028R



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

LOCATION: NC 112 SAND HILL ROAD AND SARDIS ROAD FROM WEST OF SR 3437 LAKE DRIVE TO 850' EAST OF INTERSECTION OF SAND HILL RD. SR 3412 WITH SARDIS RD NC 112



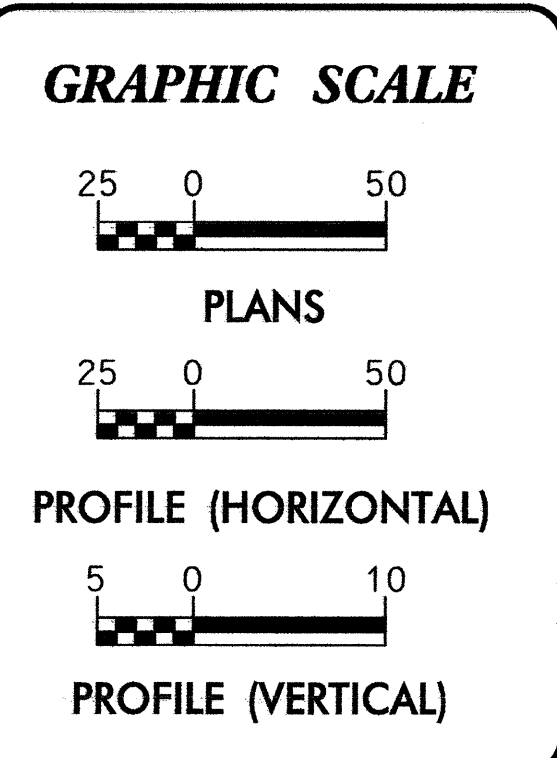
THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.

NOTE:
 CONSTRUCTION SHEETS 10 AND 11 ARE FOR EASEMENT ACQUISITION ONLY. NO LAND DISTURBING ACTIVITIES ARE SHOWN.

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	37831	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Streambank Reforestation	
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	
1630.01	Riser Basin	
1630.02	Silt Basin Type B	
1635.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-B	
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	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	



ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

12-20-07

MARK S. ACUFF, PE
 ROADSIDE ENVIRONMENTAL ENGINEER

W. HERBERT TURNER, JR., PE
 ROADSIDE ENVIRONMENTAL PROJECT ENGINEER

R. KEVIN WILLIAMS, PE, PLS, CPESC
 ROADSIDE ENVIRONMENTAL PROJECT DESIGN ENGINEER

Prepared In the Office of:

KO & ASSOCIATES, P.C.
 5121 KINGDOM WAY, SUITE 100, RALEIGH NC, 27607

2006 STANDARD SPECIFICATIONS

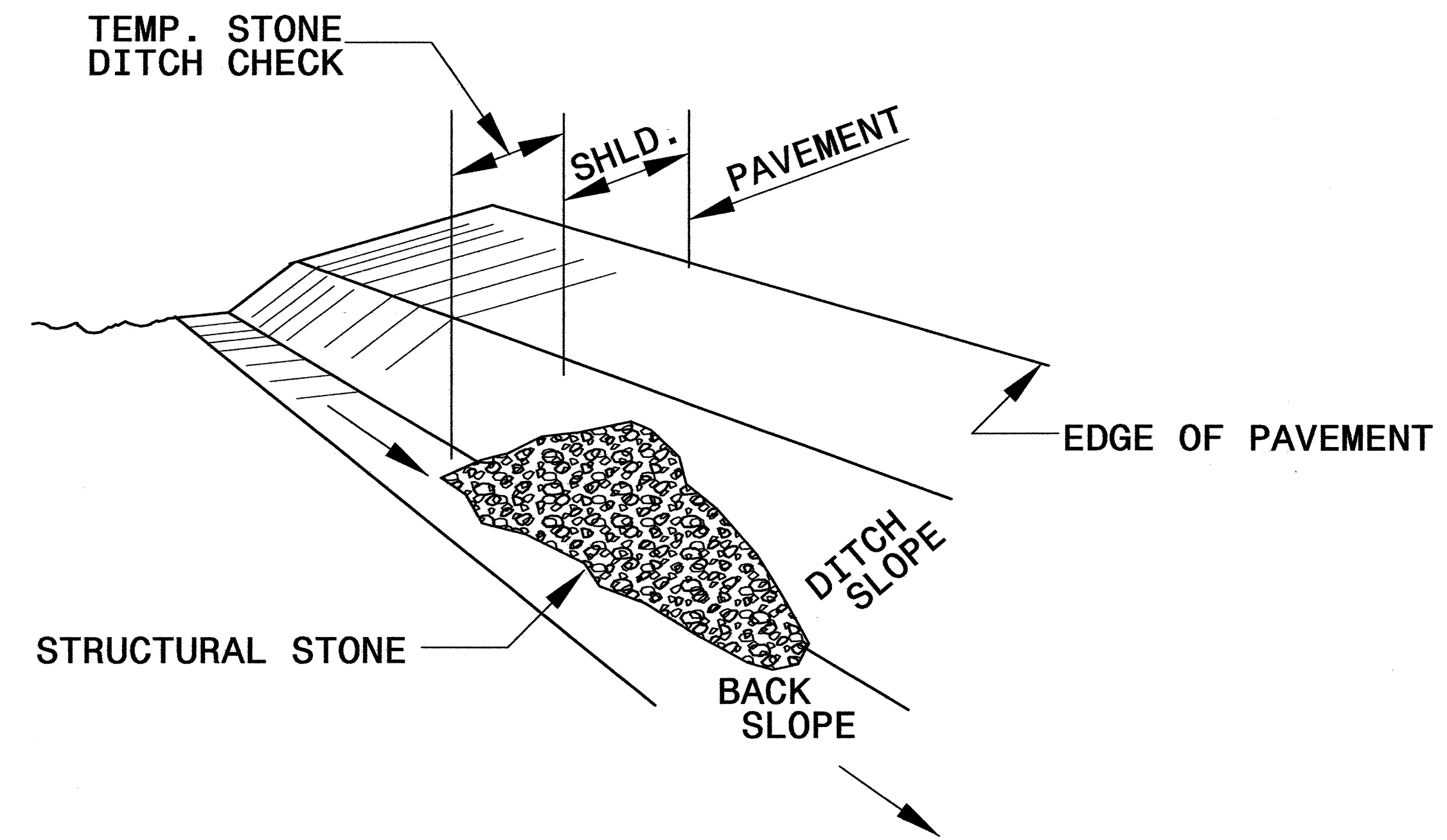
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1630.02 Silt Basin Type B	1633.01 Temporary Rock Silt Check Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.05 Temporary Diversion	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.06 Special Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B

PROJECT REFERENCE NO. 37831	SHEET NO. EC-2
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

TEMPORARY ROCK SILT CHECK TYPE 'B' DETAIL

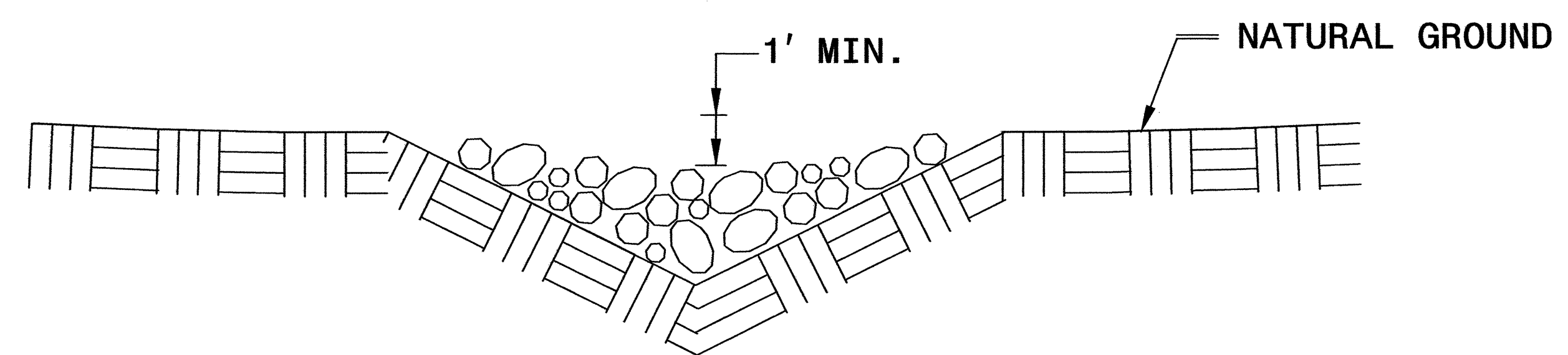


ISOMETRIC VIEW

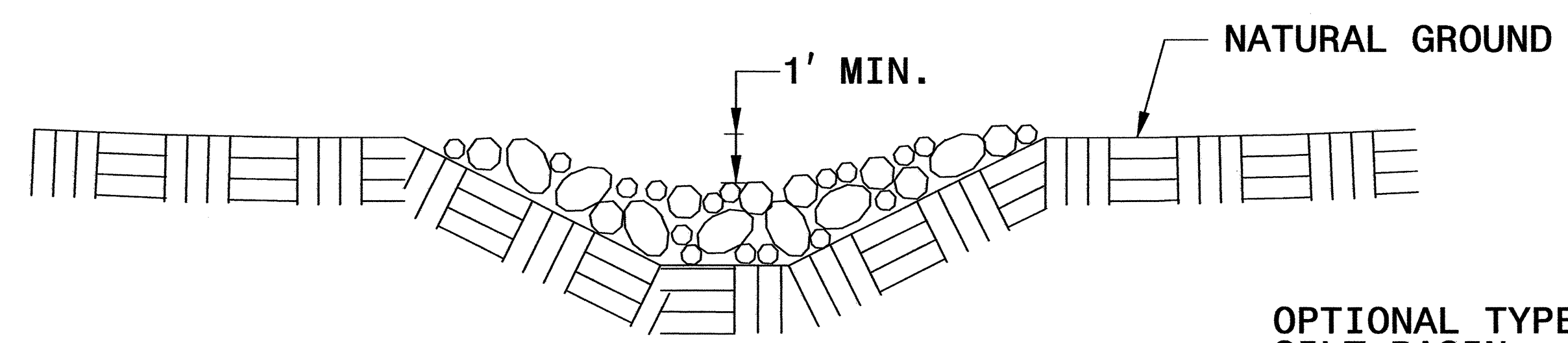
NOTES:

USE CLASS 'B' EROSION CONTROL STONE FOR STRUCTURAL STONE.

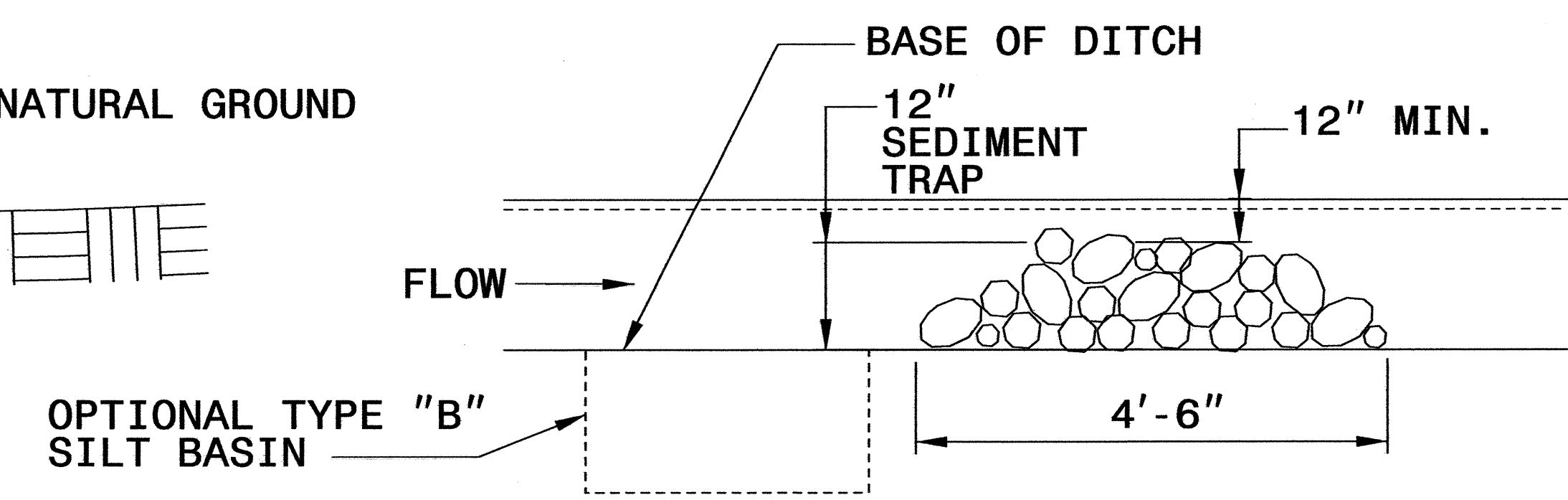
THE ENGINEER MAY DIRECT THE OPTION OF CLASS "A" STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.



CROSS SECTION VEE DITCH



CROSS SECTION TRAPEZOIDAL DITCH



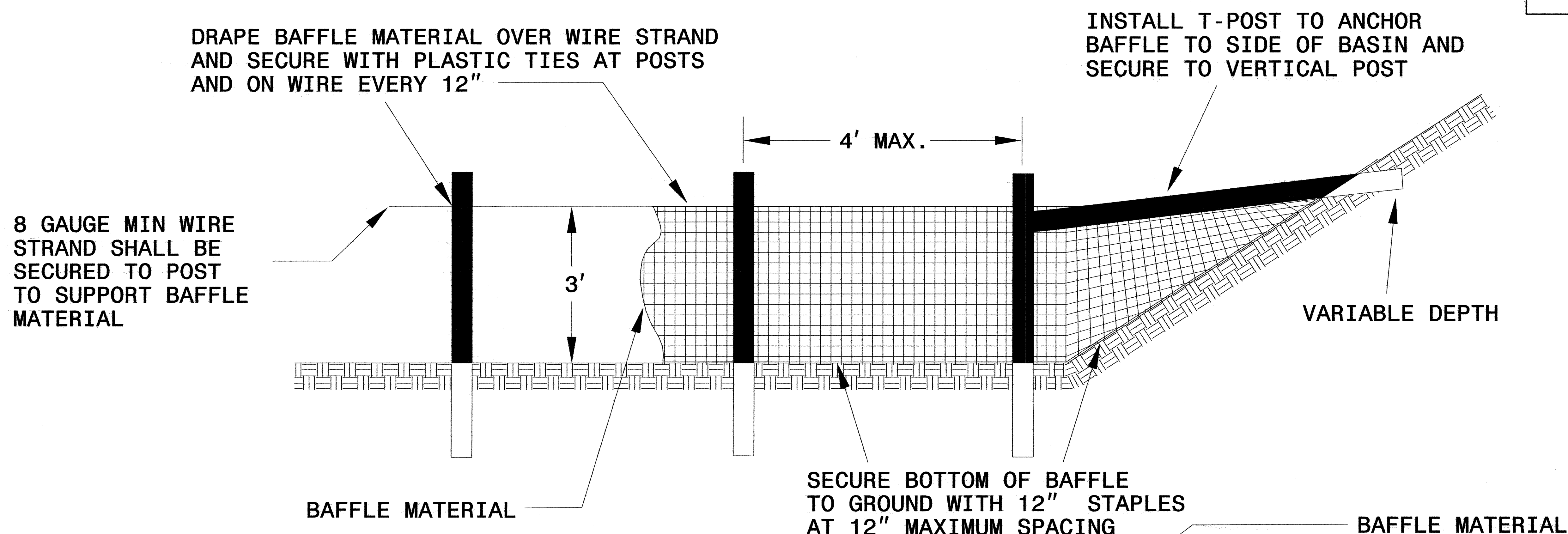
ELEVATION VIEW

8/17/99
12/18/2007
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KO & Associates, P.C.

8/17/99

PROJECT REFERENCE NO. 37831	SHEET NO. EC-2A
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

COIR FIBER BAFFLE DETAIL



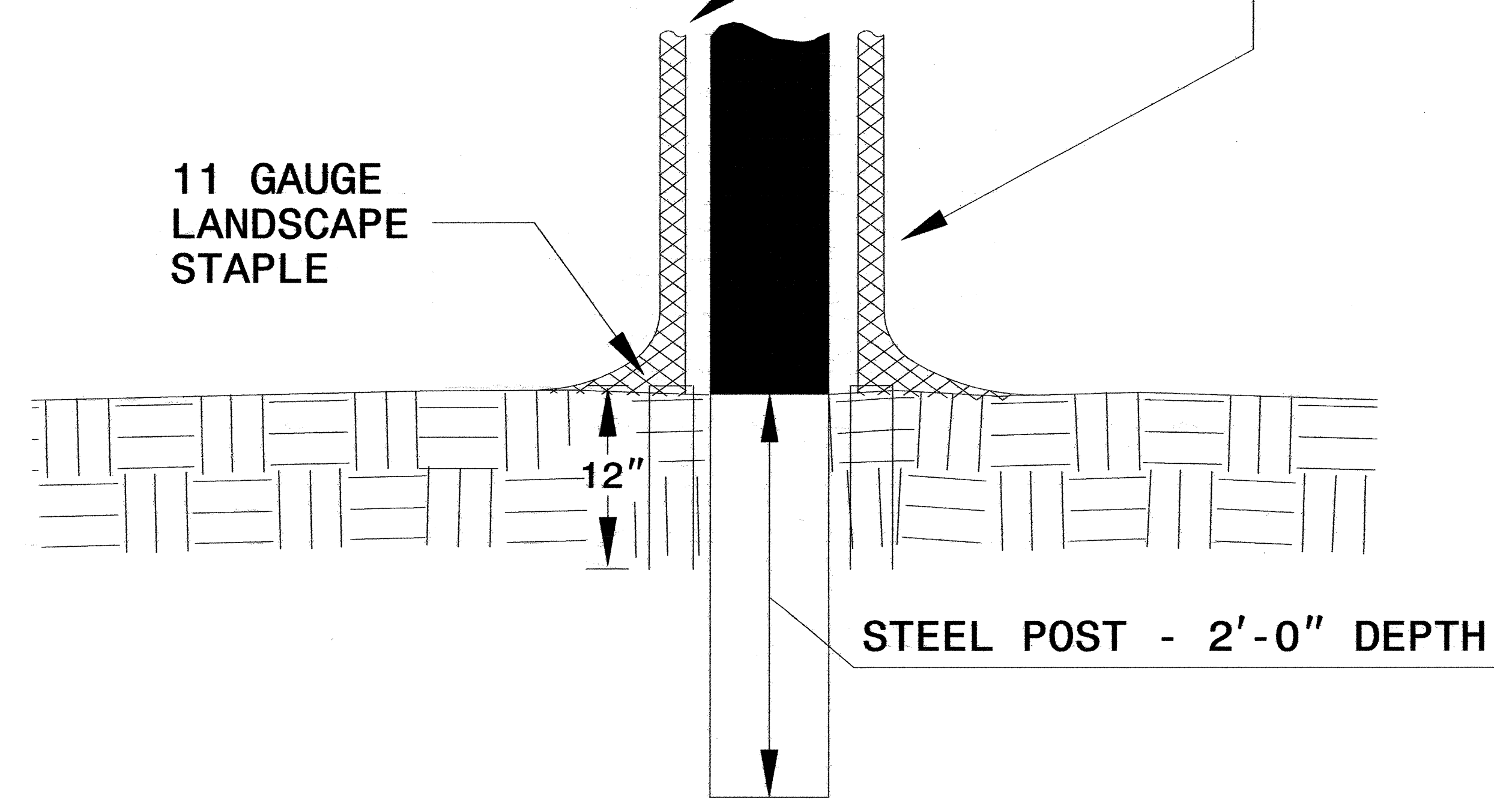
8 GAUGE MIN WIRE STRAND SHALL BE SECURED TO POST TO SUPPORT BAFFLE MATERIAL

INSTALL T-POST TO ANCHOR BAFFLE TO SIDE OF BASIN AND SECURE TO VERTICAL POST

BAFFLE MATERIAL

SECURE BOTTOM OF BAFFLE TO GROUND WITH 12" STAPLES AT 12" MAXIMUM SPACING

BAFFLE MATERIAL



11 GAUGE LANDSCAPE STAPLE

12"

STEEL POST - 2'-0" DEPTH

NOTE: INSTALL THREE(3) COIR FIBER BAFFLES IN SILT BASINS AND SEDIMENT DAMS AT DRAINAGE OUTLETS WITH A SPACING OF 1/4 THE BASIN LENGTH. TWO(2) COIR FIBER BAFFLES CAN BE INSTALLED IN SILT BASINS LESS THAN 20 FT. IN LENGTH WITH A SPACING OF 1/3 THE BASIN LENGTH.

BAFFLE MATERIAL SHALL BE SECURED TO THE BOTTOM AND SIDES OF BASIN USING 12" LANDSCAPE STAPLES

1/25/2008
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KO & Associates, P.C.

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 5

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

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

NOTE:
CONTRACTOR SHALL PROVIDE GROUND COVER ON
EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER
ANY PHASE OF GRADING.

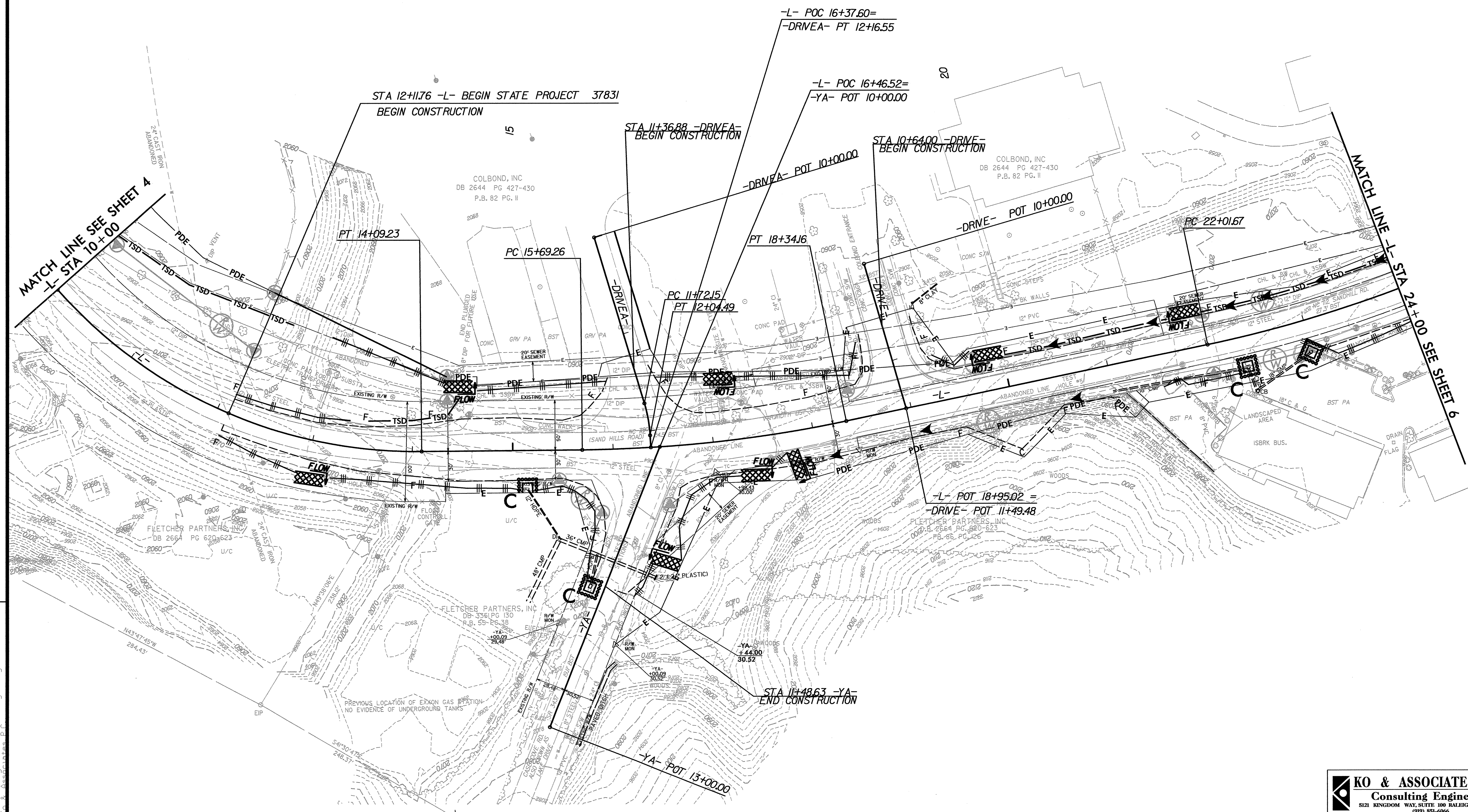
NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE
LOCATED WITHIN EXISTING RW OR EASEMENT.

-L-

PI Sta 12+18.14 Δ = 49° 06' 28.0" (LT) D = 12' 00' 00.0" L = 409.23' T = 218.14' R = 477.4648' SE = 0.06 RUNOFF = 165.00'	PI Sta 17+02.14 Δ = 11° 15' 29.2" (LT) D = 4' 15' 00.0" L = 264.90' T = 132.88' R = 1,348.1360' SE = 0.048 RUNOFF = 165.00'	PI Sta 23+79.56 Δ = 15° 54' 25.6" (LT) D = 4' 30' 00.0" L = 353.49' T = 177.89' R = 1,273.2395' SE = 0.049 RUNOFF = 165.00'
--	--	--

-DRVEA-

PI Sta 11+88.39
Δ = 13° 25' 37.1" (RT)
D = 4' 31' 07.3"
L = 32.34'
T = 16.24'
R = 138.00'
SE = AS SHOWN ON PLANS
RUNOFF = AS SHOWN ON PLANS



REVISIONS

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8/17/99
12/19/2007
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NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B
AND TEMPORARY ROCK SILT CHECKS TYPE - A AT
DRAINAGE OUTLETS.

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

NOTE:
CONTRACTOR SHALL PROVIDE GROUND COVER ON
EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER
ANY PHASE OF GRADING.

NOTE:
CONTRACTOR SHALL ESTABLISH A SUFFICIENT BUFFER
ZONE FROM WATER COURSE.

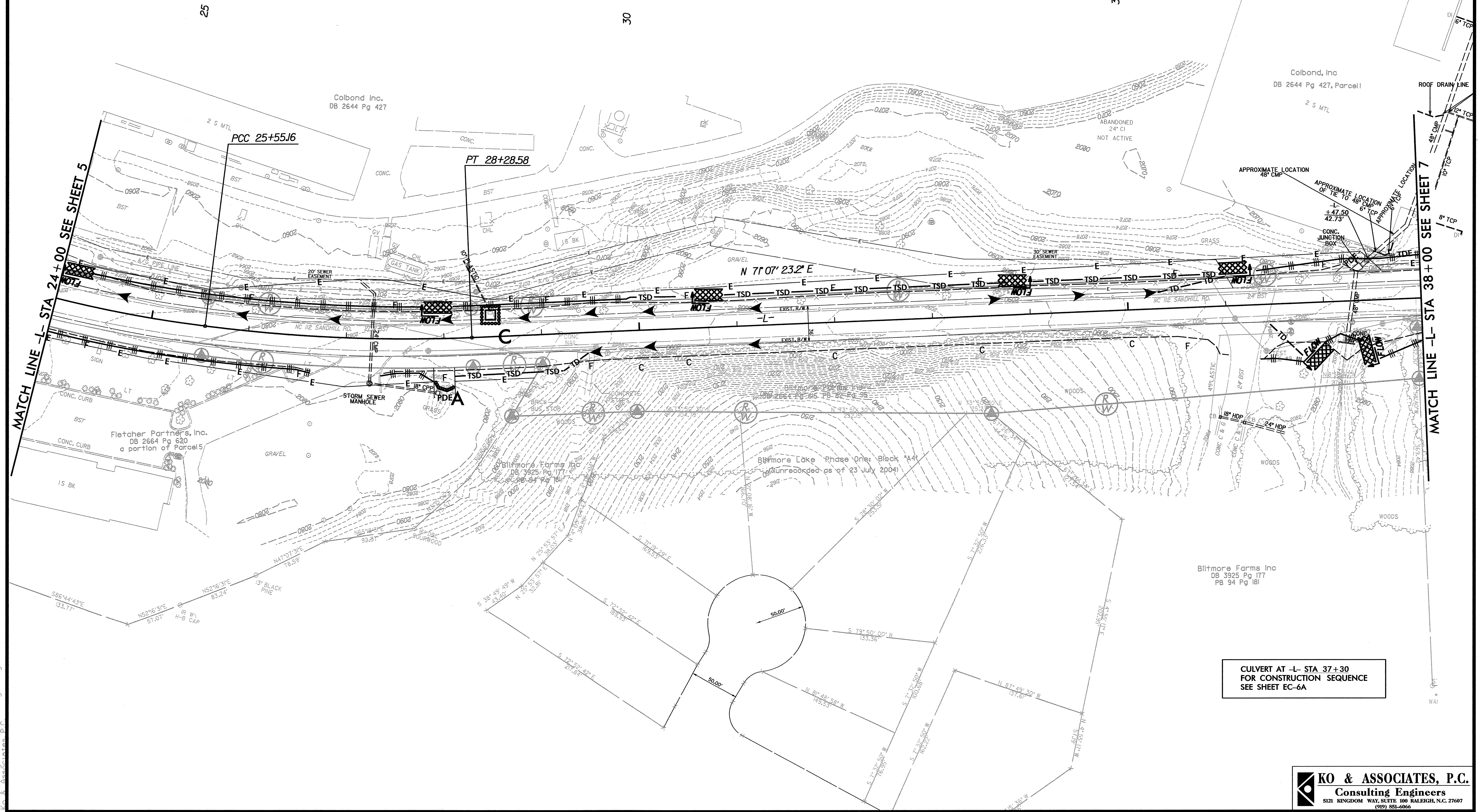
NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE
LOCATED WITHIN EXISTING RW OR EASEMENT.

-L-
PI Sta 26+92.19
 $\Delta = 9^{\circ} 34' 11.2''$ (LT)
 $D = 3^{\circ} 30' 00.0''$
 $L = 273.42'$
 $T = 137.03'$
 $R = 1637.0223'$
 $SE = 0.043$
RUNOFF = 165.00'

PROJECT REFERENCE NO.	SHEET NO.
37831	EC-5/CONST6
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

W. H. TURNER, JR.
SEAL
021162
ENGINEER
12-20-07

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 6

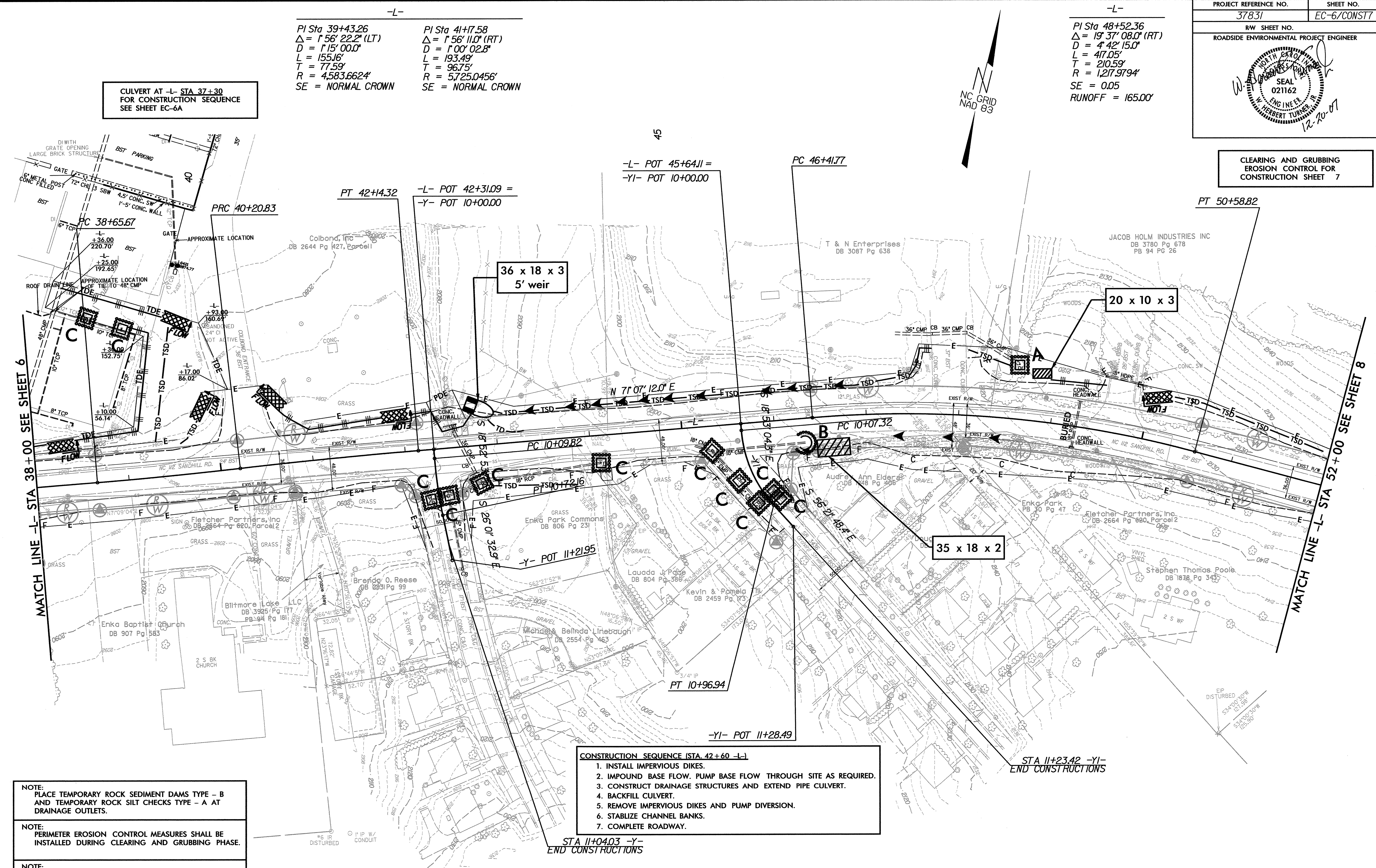


8/17/99

12/20/2007
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PROJECT REFERENCE NO. 37831	SHEET NO. EC-6/CONST7
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 7



CULVERT AT -L- STA 37+30
FOR CONSTRUCTION SEQUENCE
SEE SHEET EC-6A

-L-
 PI Sta 39+43.26
 $\Delta = 1' 56' 22.2''$ (LT)
 $D = 1' 15' 00.0''$
 $L = 155.16'$
 $T = 77.59'$
 $R = 4,583.6624'$
 SE = NORMAL CROWN

PI Sta 41+17.58
 $\Delta = 1' 56' 11.0''$ (RT)
 $D = 1' 00' 02.8''$
 $L = 193.49'$
 $T = 96.75'$
 $R = 5,725.0456'$
 SE = NORMAL CROWN

-L-
 PI Sta 48+52.36
 $\Delta = 1' 37' 08.0''$ (RT)
 $D = 4' 42' 15.0''$
 $L = 417.05'$
 $T = 210.59'$
 $R = 1,217.9794'$
 SE = 0.05
 RUNOFF = 165.00'

NC GRID
NAD 83

MATCH LINE -L- STA 38+00 SEE SHEET 6

MATCH LINE -L- STA 52+00 SEE SHEET 8

- NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.
- NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.
- NOTE:
CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER ANY PHASE OF GRADING.
- NOTE:
CONTRACTOR SHALL ESTABLISH A SUFFICIENT BUFFER ZONE FROM WATER COURSE.
- NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

- CONSTRUCTION SEQUENCE (STA. 42+60 -L-)
1. INSTALL IMPERVIOUS DIKES.
 2. IMPOUND BASE FLOW. PUMP BASE FLOW THROUGH SITE AS REQUIRED.
 3. CONSTRUCT DRAINAGE STRUCTURES AND EXTEND PIPE CULVERT.
 4. BACKFILL CULVERT.
 5. REMOVE IMPERVIOUS DIKES AND PUMP DIVERSION.
 6. STABILIZE CHANNEL BANKS.
 7. COMPLETE ROADWAY.

-Y-
 PI Sta 10+41.03
 $\Delta = 7' 08' 39.2''$ (LT)
 $D = 1' 27' 33.0''$
 $L = 62.35'$
 $T = 31.21'$
 $R = 500.0000'$

-YI-
 PI Sta 10+53.80
 $\Delta = 37' 28' 44.0''$ (LT)
 $D = 4' 49' 18.3''$
 $L = 89.62'$
 $T = 46.48'$
 $R = 137.0000'$

8/17/99

(FOR MAINTENANCE OF TRAFFIC, REFER TO TRAFFIC CONTROL PLANS.)

CONSTRUCTION SEQUENCE (STA. 37+30 -L-)

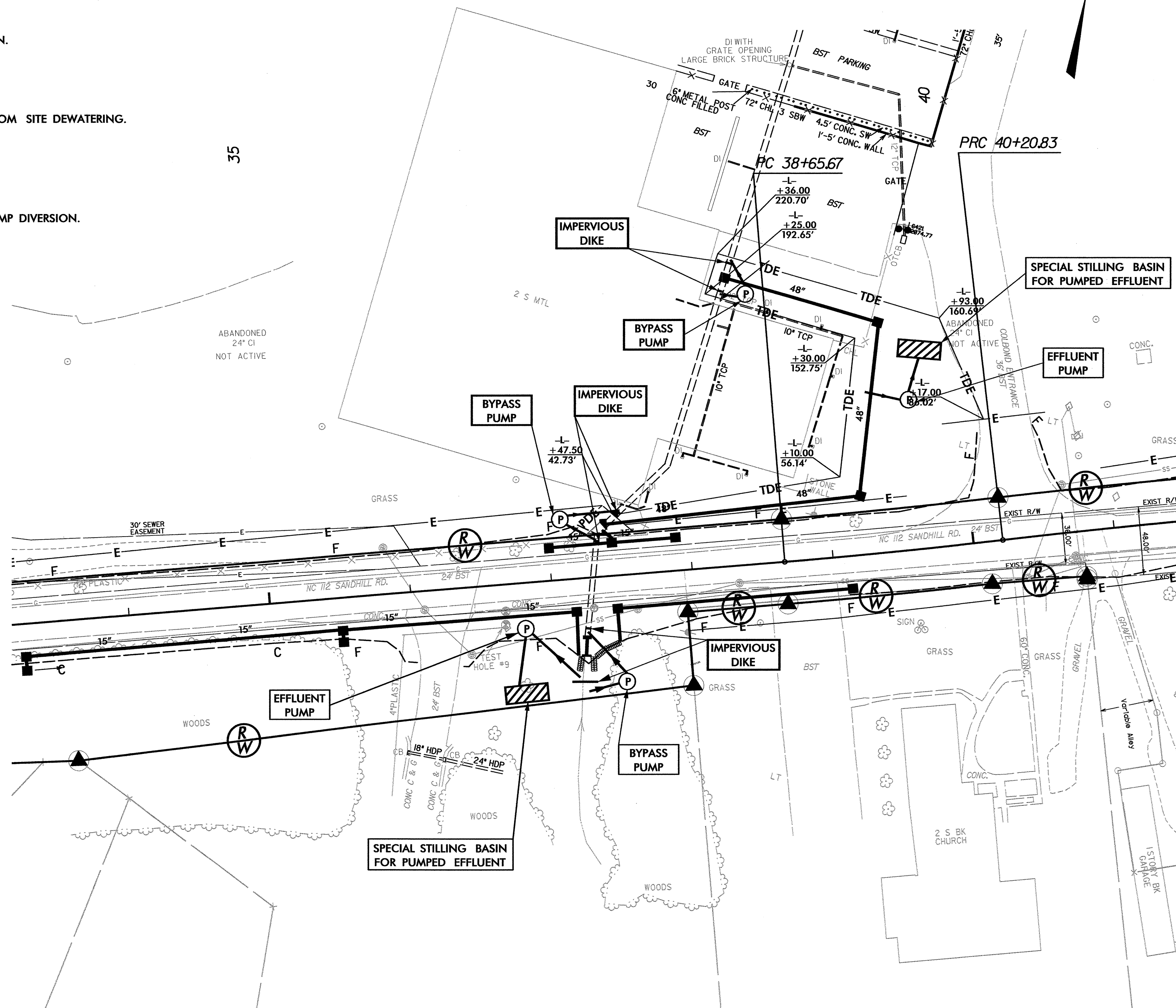
PHASE I - INLET EXTENSION

1. CONSTRUCT SPECIAL STILLING BASIN FOR PUMPED EFFLUENT (10' x 15') FROM SITE DEWATERING.
2. INSTALL IMPERVIOUS DIKES.
3. IMPOUND BASE FLOW. PUMP BASE FLOW THROUGH SITE AS REQUIRED.
4. REMOVE EXISTING HEADWALL AND EXTEND PIPE CULVERT.
5. BACKFILL CULVERT AND INSTALL HEADWALL.
6. REMOVE IMPERVIOUS DIKES, SPECIAL STILLING BASIN, AND PUMP DIVERSION.
7. STABILIZE CHANNEL BANKS.

PHASE II - OUTFALL RE-ROUTE

8. CONSTRUCT SPECIAL STILLING BASIN FOR PUMPED EFFLUENT (10' x 15') FROM SITE DEWATERING.
9. INSTALL IMPERVIOUS DIKES IN STAGES.
10. IMPOUND BASE FLOW. PUMP BASE FLOW THROUGH SITE AS REQUIRED.
11. INSTALL PIPE CULVERT AND DRAINAGE STRUCTURES FROM DOWNSTREAM.
12. BACKFILL CULVERT.
13. REMOVE IMPERVIOUS DIKES IN STAGES, SPECIAL STILLING BASIN, AND PUMP DIVERSION.
14. COMPLETE ROADWAY.

NOTE: THE CONTRACTOR SHALL NOT PUMP SEDIMENT-LADEN WATER DIRECTLY INTO STREAM.



CONSTRUCTION SEQUENCE (STA. 37+30 -L-)

PROJECT REFERENCE NO.	SHEET NO.
37831	EC-6A/CONST7
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

W. HERBERT TURNER, P.E.
 PROFESSIONAL SEAL
 021162
 12-20-07



12/20/2007 10:28:56 AM c:\p\ec-c&g...s6a.dgn

8/17/99

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

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

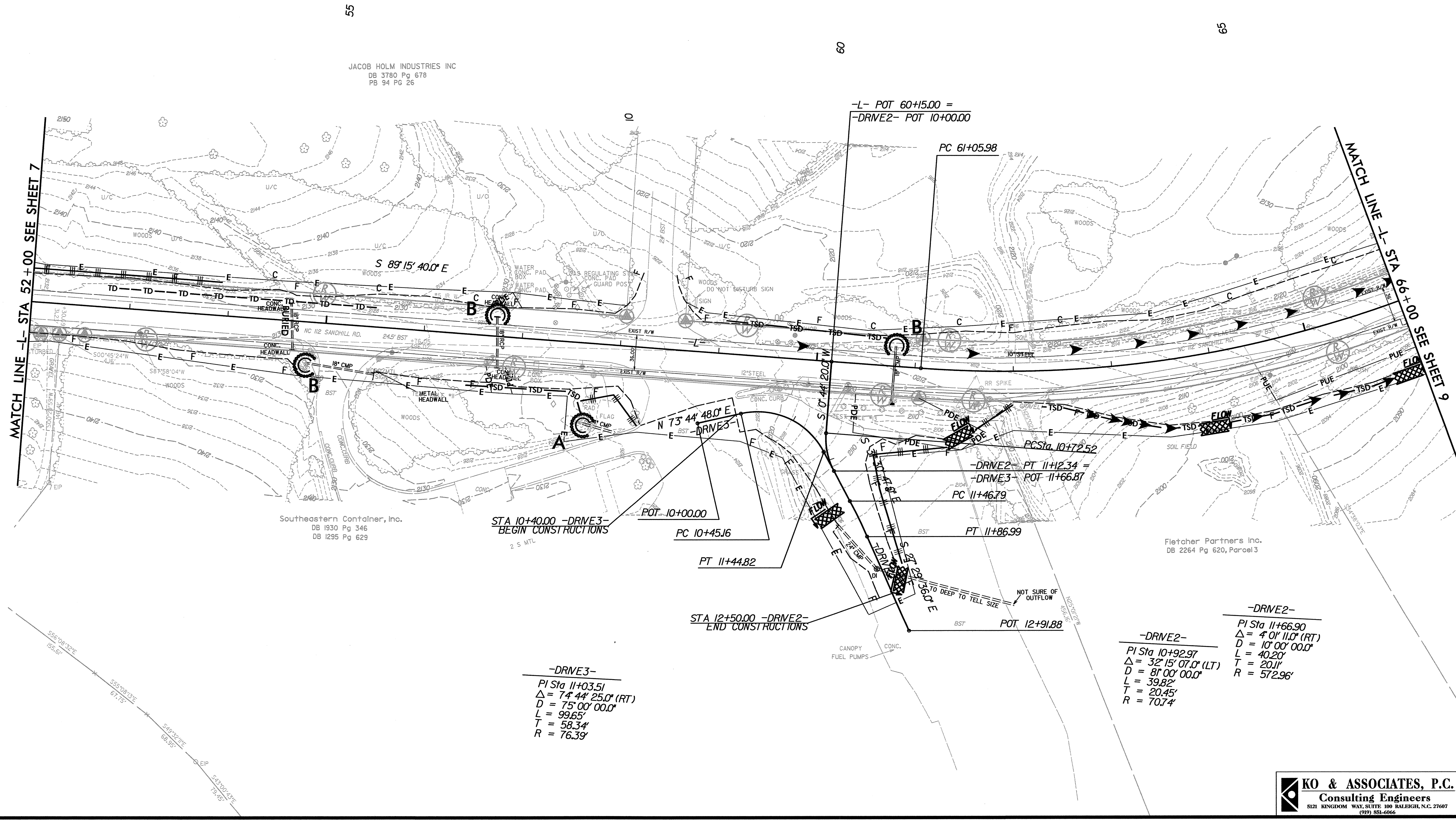
NOTE:
CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER ANY PHASE OF GRADING.

NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

-L-
PI Sta 63+63.61
 $\Delta = 25^{\circ} 20' 30.0''$ (LT)
D = 5' 00' 00.0"
L = 506.83'
T = 257.63'
R = 1,445.9156'
SE = 0.051
RUNOFF = 165.00'

PROJECT REFERENCE NO.	SHEET NO.
37831	EC-7/CONST8
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

CLEARING AND GRUBBING
EROSION CONTROL FOR
CONSTRUCTION SHEET 8



-DRIVE3-
PI Sta 11+03.51
 $\Delta = 7^{\circ} 44' 25.0''$ (RT)
D = 75' 00' 00.0"
L = 99.65'
T = 58.34'
R = 76.39'

-DRIVE2-
PI Sta 10+92.97
 $\Delta = 32^{\circ} 15' 07.0''$ (LT)
D = 81' 00' 00.0"
L = 39.82'
T = 20.45'
R = 70.74'

-DRIVE2-
PI Sta 11+66.90
 $\Delta = 4^{\circ} 01' 11.0''$ (RT)
D = 10' 00' 00.0"
L = 40.20'
T = 20.11'
R = 572.96'

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 12/20/2007
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-L-
 PI Sta 63+63.61
 $\Delta = 25^{\circ} 20' 30.0''$ (LT)
 $D = 5^{\circ} 00' 00.0''$
 $L = 506.83'$
 $T = 257.63'$
 $R = 1,45.9156'$
 $SE = 0.051$
 $RUNOFF = 165.00'$

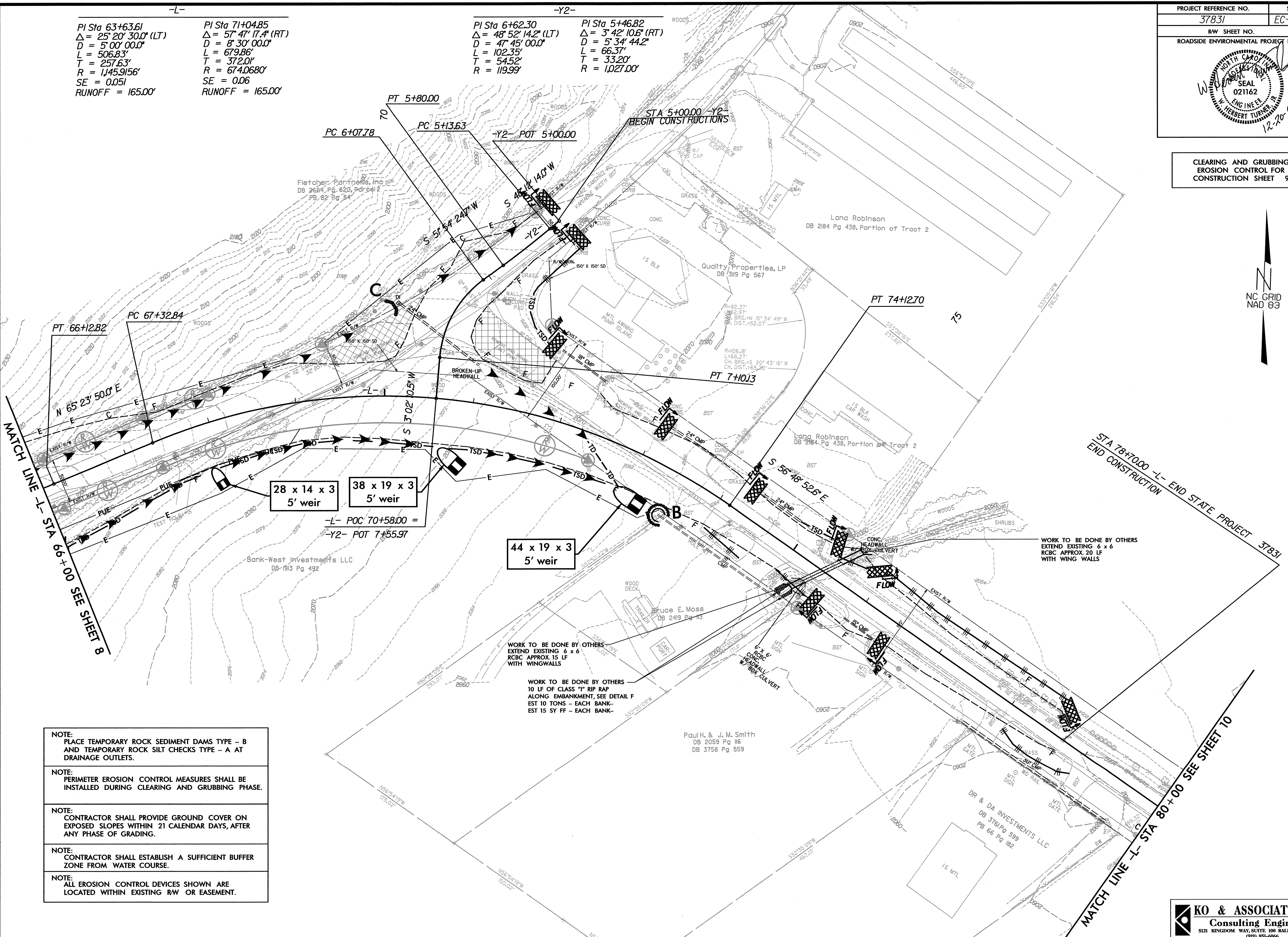
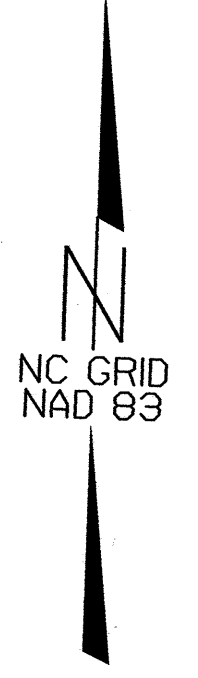
PI Sta 71+04.85
 $\Delta = 57^{\circ} 47' 17.4''$ (RT)
 $D = 8^{\circ} 30' 00.0''$
 $L = 679.86'$
 $T = 372.01'$
 $R = 674.0680'$
 $SE = 0.06$
 $RUNOFF = 165.00'$

-Y2-
 PI Sta 6+62.30
 $\Delta = 48^{\circ} 52' 14.2''$ (LT)
 $D = 47^{\circ} 45' 00.0''$
 $L = 102.35'$
 $T = 54.52'$
 $R = 119.99'$

PI Sta 5+46.82
 $\Delta = 3^{\circ} 42' 10.6''$ (RT)
 $D = 5^{\circ} 34' 44.2''$
 $L = 66.37'$
 $T = 33.20'$
 $R = 1,027.00'$

PROJECT REFERENCE NO. 37831	SHEET NO. EC-8/CONST9
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

CLEARING AND GRUBBING
 EROSION CONTROL FOR
 CONSTRUCTION SHEET 9



- NOTE:
PLACE TEMPORARY ROCK SEDIMENT DAMS TYPE - B AND TEMPORARY ROCK SILT CHECKS TYPE - A AT DRAINAGE OUTLETS.
- NOTE:
PERIMETER EROSION CONTROL MEASURES SHALL BE INSTALLED DURING CLEARING AND GRUBBING PHASE.
- NOTE:
CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER ANY PHASE OF GRADING.
- NOTE:
CONTRACTOR SHALL ESTABLISH A SUFFICIENT BUFFER ZONE FROM WATER COURSE.
- NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

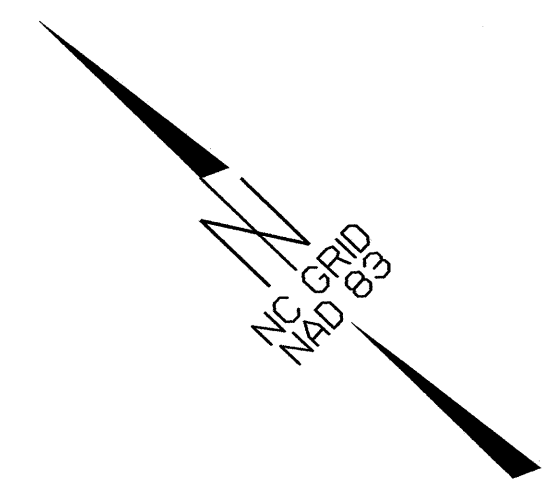
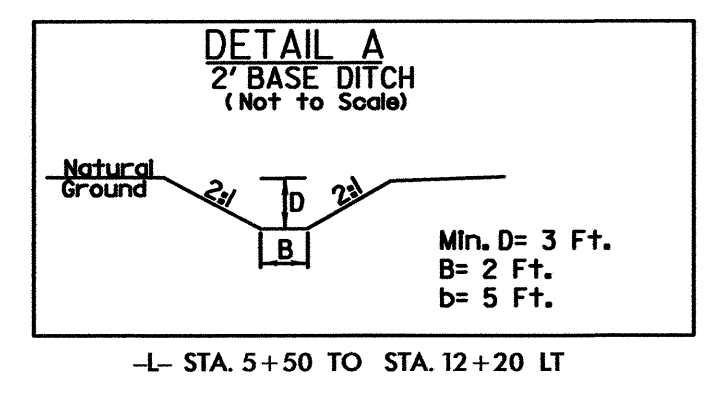
8/17/99

NOTE: CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER ANY PHASE OF GRADING.

NOTE: CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.

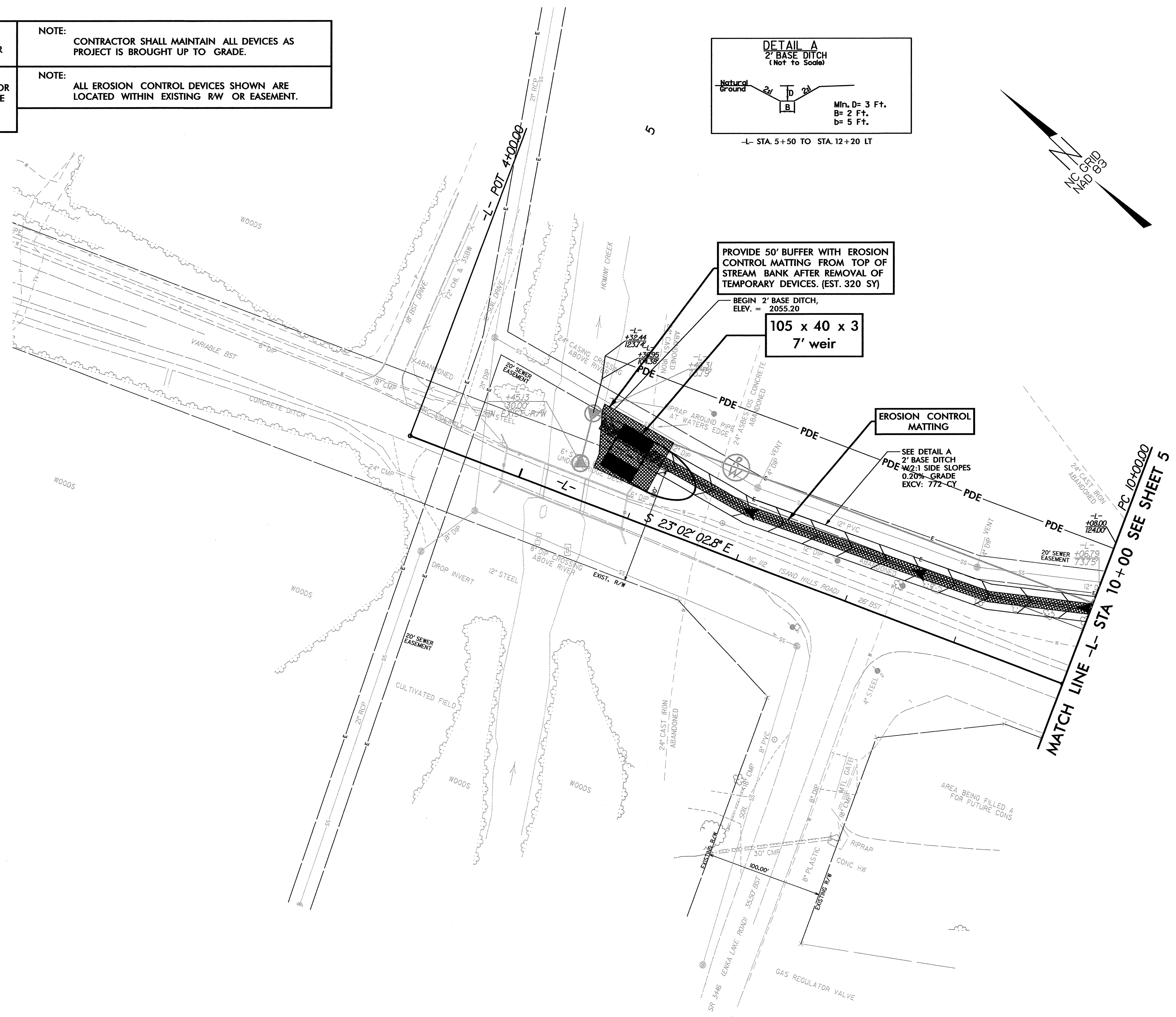
NOTE: CONTRACTOR SHALL MAINTAIN ALL DEVICES AS PROJECT IS BROUGHT UP TO GRADE.

NOTE: ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.



PROJECT REFERENCE NO. 37831	SHEET NO. EC-9/CONST4
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 4

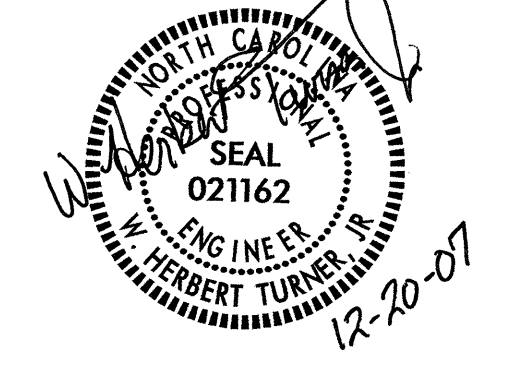


MATCH LINE -L- STA 10+00 SEE SHEET 5

PC 10+00.00

12/20/2007 11:30:28 p.m. ec_final.s9.dgn

8/17/99



-L-

PI Sta 12+18.14 Δ = 45° 06' 28.0" (LT) D = 12' 00' 00.0" L = 409.23' T = 218.14' R = 477.4648' SE = 0.06 RUNOFF = 165.00'	PI Sta 17+02.14 Δ = 11° 15' 29.2" (LT) D = 4' 15' 00.0" L = 264.90' T = 132.88' R = 1,348.1360' SE = 0.048 RUNOFF = 165.00'	PI Sta 23+79.56 Δ = 15° 54' 25.6" (LT) D = 4' 30' 00.0" L = 353.49' T = 177.89' R = 1,273.2395' SE = 0.049 RUNOFF = 165.00'
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NOTE: CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER ANY PHASE OF GRADING.

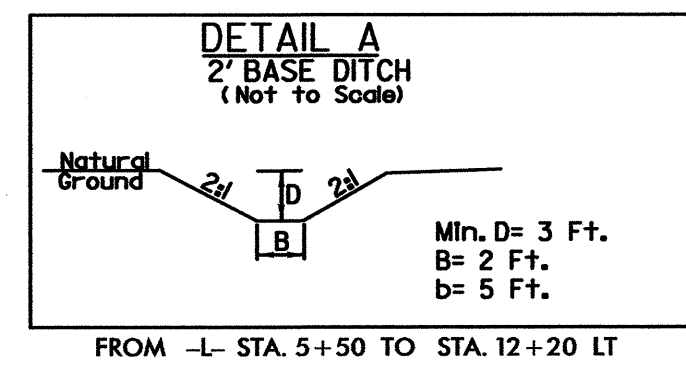
NOTE: CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.

NOTE: CONTRACTOR SHALL MAINTAIN ALL DEVICES AS PROJECT IS BROUGHT UP TO GRADE.

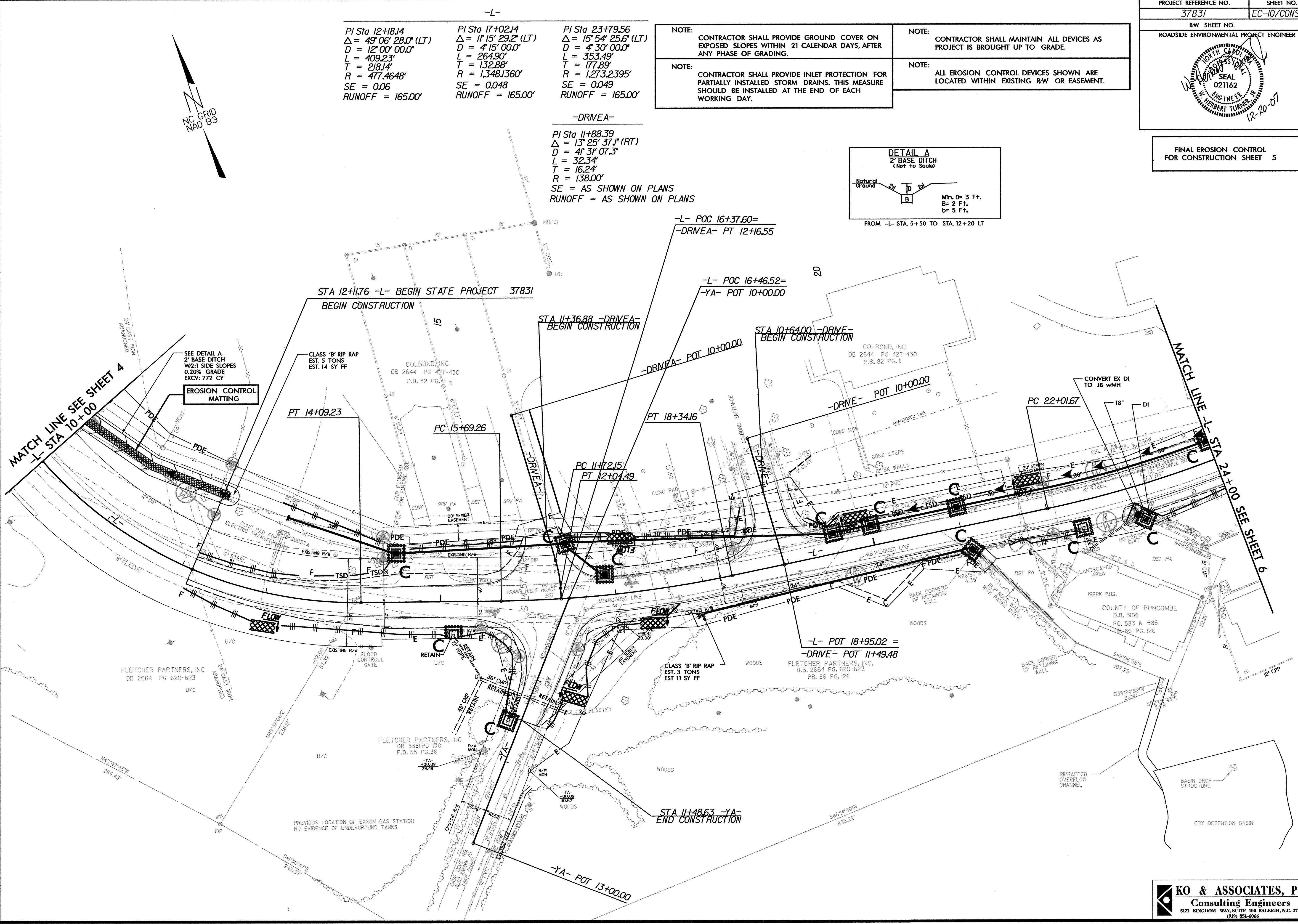
NOTE: ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

-DRVEA-

PI Sta 11+88.39
Δ = 13° 25' 37.1" (RT)
D = 4' 31' 07.3"
L = 32.34'
T = 16.24'
R = 138.00'
SE = AS SHOWN ON PLANS
RUNOFF = AS SHOWN ON PLANS



REVISIONS



12/20/2007
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FINAL EROSION CONTROL
FOR CONSTRUCTION SHEET 6

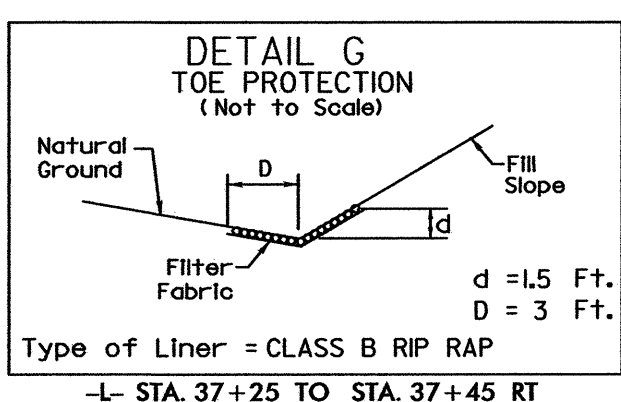
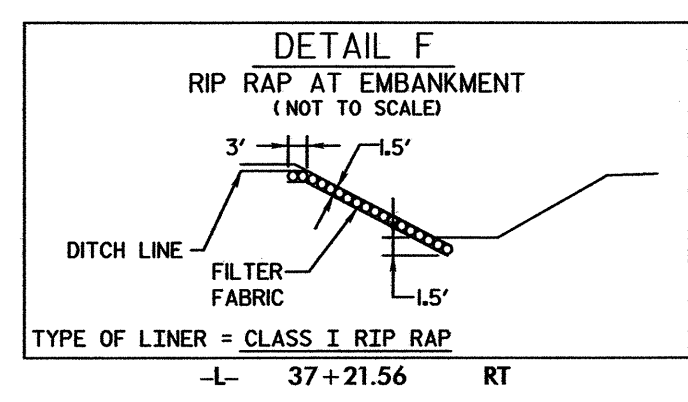
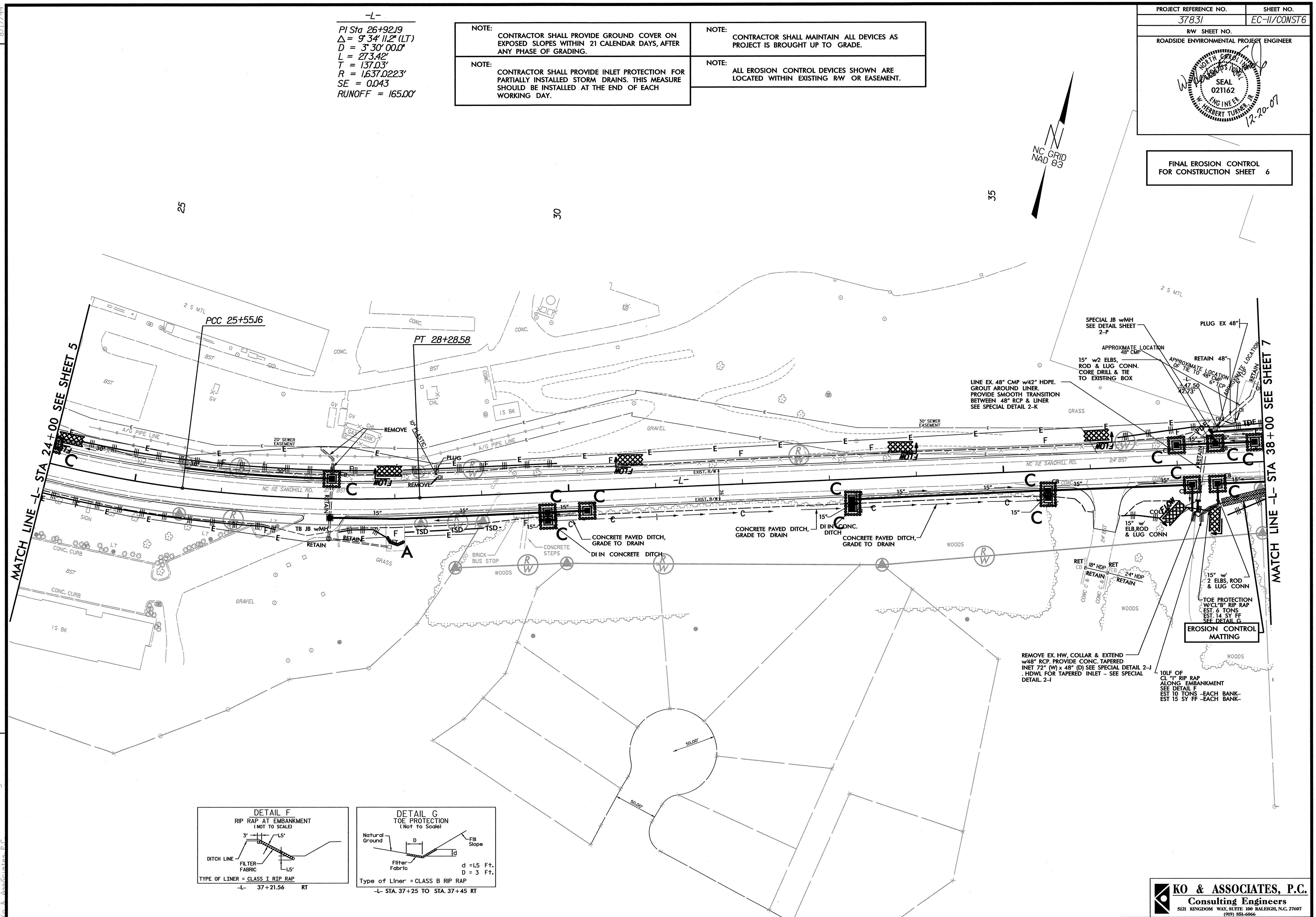
-L-
 PI Sta 26+92.19
 $\Delta = 9' 34'' 11.2''$ (LT)
 $D = 3' 30'' 00.0''$
 $L = 273.42'$
 $T = 137.03'$
 $R = 1,637.0223'$
 $SE = 0.043$
 $RUNOFF = 165.00'$

NOTE: CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER ANY PHASE OF GRADING.

NOTE: CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.

NOTE: CONTRACTOR SHALL MAINTAIN ALL DEVICES AS PROJECT IS BROUGHT UP TO GRADE.

NOTE: ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.



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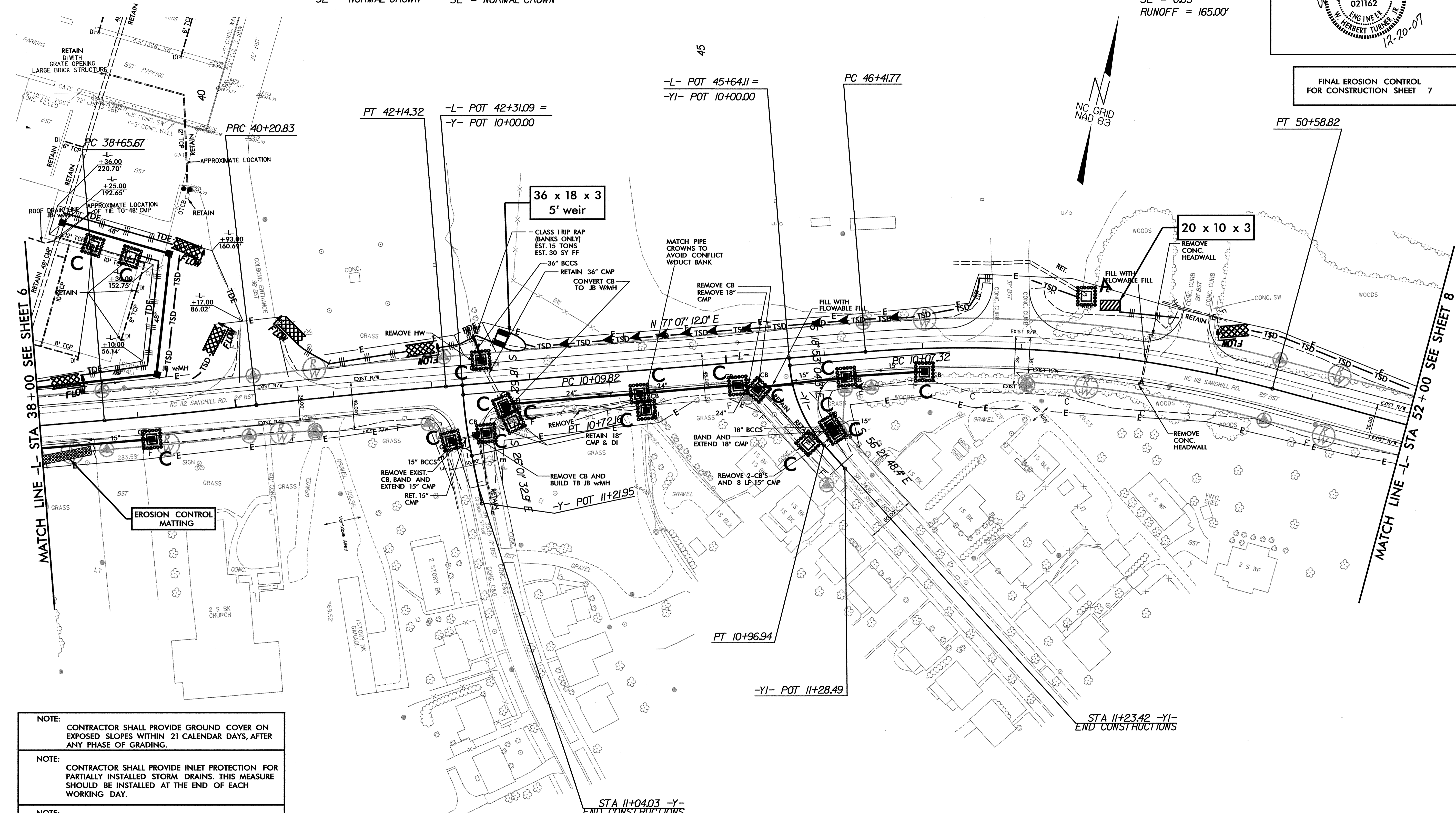
PROJECT REFERENCE NO.	SHEET NO.
37831	EC-12/CONST7
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

FINAL EROSION CONTROL
FOR CONSTRUCTION SHEET 7

-L-
 PI Sta 39+43.26
 $\Delta = 1' 56'' 22.2''$ (LT)
 $D = 1' 15'' 00.0''$
 $L = 155.16'$
 $T = 77.59'$
 $R = 4,583.6624'$
 SE = NORMAL CROWN

PI Sta 41+7.58
 $\Delta = 1' 56'' 11.0''$ (RT)
 $D = 1' 00'' 02.8''$
 $L = 193.49'$
 $T = 96.75'$
 $R = 5,725.0456'$
 SE = NORMAL CROWN

-L-
 PI Sta 48+52.36
 $\Delta = 19' 37'' 08.0''$ (RT)
 $D = 4' 42'' 15.0''$
 $L = 417.05'$
 $T = 210.59'$
 $R = 1,217.9794'$
 SE = 0.05
 RUNOFF = 165.00'



- NOTE: CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER ANY PHASE OF GRADING.
- NOTE: CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.
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- NOTE: ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

-Y-
 PI Sta 10+41.03
 $\Delta = 7' 08'' 39.2''$ (LT)
 $D = 1' 27'' 33.0''$
 $L = 62.35'$
 $T = 31.21'$
 $R = 500.0000'$

-YI-
 PI Sta 10+53.80
 $\Delta = 37' 28'' 44.0''$ (LT)
 $D = 4' 49'' 18.3''$
 $L = 89.62'$
 $T = 46.48'$
 $R = 137.0000'$

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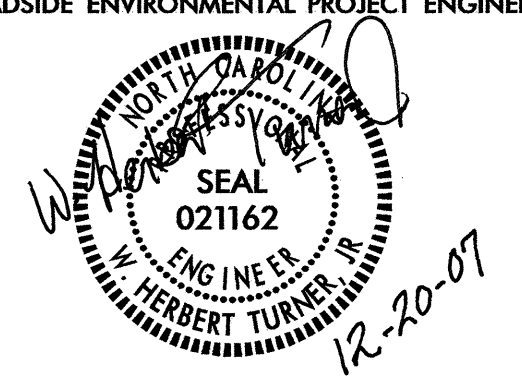
NOTE: CONTRACTOR SHALL PROVIDE GROUND COVER ON EXPOSED SLOPES WITHIN 21 CALENDAR DAYS, AFTER ANY PHASE OF GRADING.

NOTE: CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY.

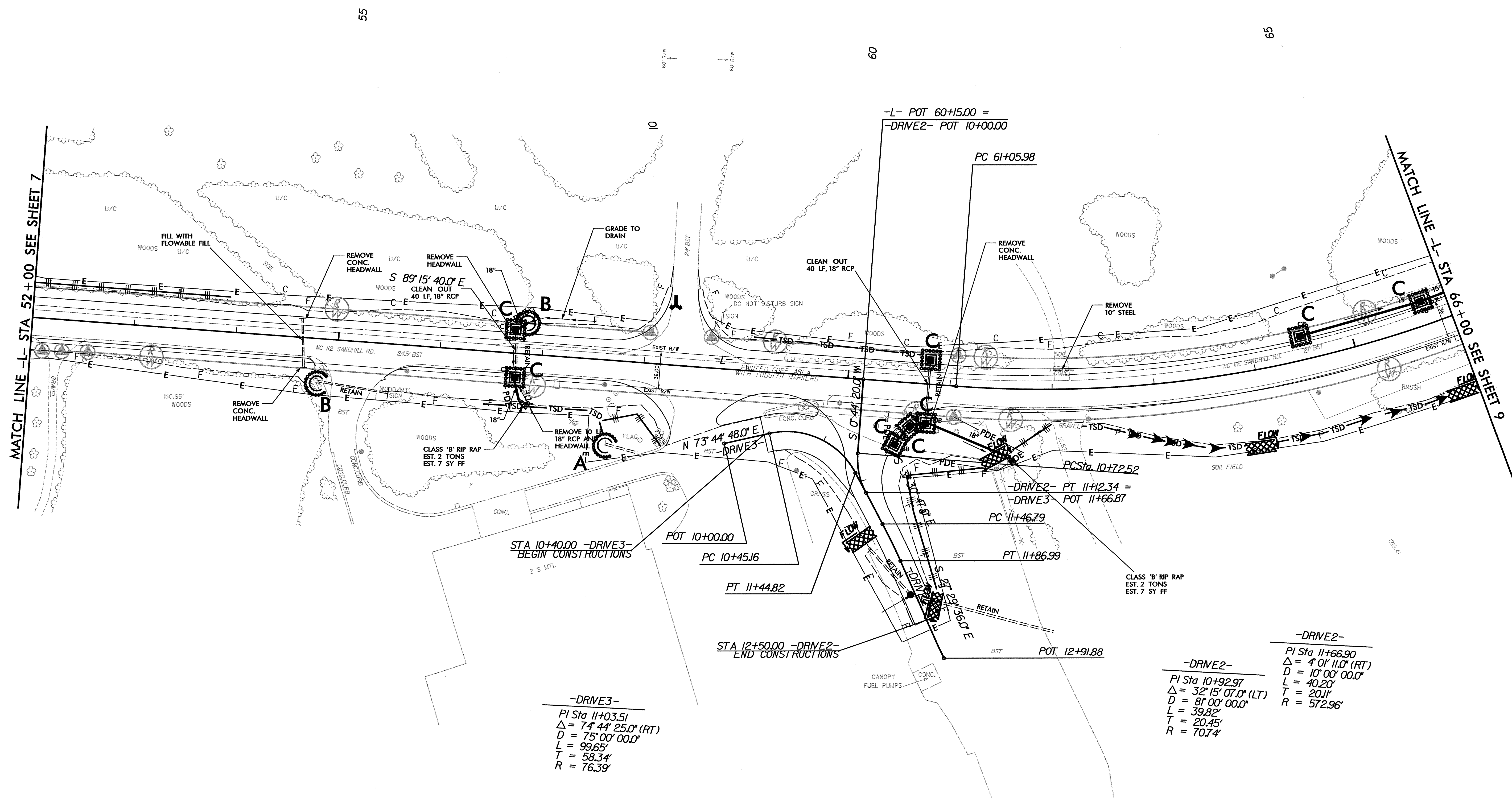
NOTE: CONTRACTOR SHALL MAINTAIN ALL DEVICES AS PROJECT IS BROUGHT UP TO GRADE.

NOTE: ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING RW OR EASEMENT.

-L-
 PI Sta 63+63.61
 $\Delta = 25' 20' 30.0''$ (LT)
 $D = 5' 00' 00.0''$
 $L = 506.83'$
 $T = 257.63'$
 $R = 1,145.9156'$
 $SE = 0.051$
 $RUNOFF = 165.00'$

PROJECT REFERENCE NO. 37831	SHEET NO. EC-13/CONST8
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	
	

FINAL EROSION CONTROL FOR CONSTRUCTION SHEET 8



-DRIVE3-
 PI Sta 11+03.51
 $\Delta = 74' 44' 25.0''$ (RT)
 $D = 75' 00' 00.0''$
 $L = 99.65'$
 $T = 58.34'$
 $R = 76.39'$

-DRIVE2-
 PI Sta 11+66.90
 $\Delta = 4' 01' 11.0''$ (RT)
 $D = 10' 00' 00.0''$
 $L = 40.20'$
 $D = 81' 00' 00.0''$
 $L = 39.82'$
 $T = 20.45'$
 $R = 70.74'$

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 C:\p\image\13026.ec.f.mel.s14.dgn

PI Sta 63+63.61
 $\Delta = 25^\circ 20' 30.0''$ (LT)
 $D = 5' 00' 00.0''$
 $L = 506.83'$
 $T = 257.63'$
 $R = 1,45.9156'$
 $SE = 0.051$
 $RUNOFF = 165.00'$

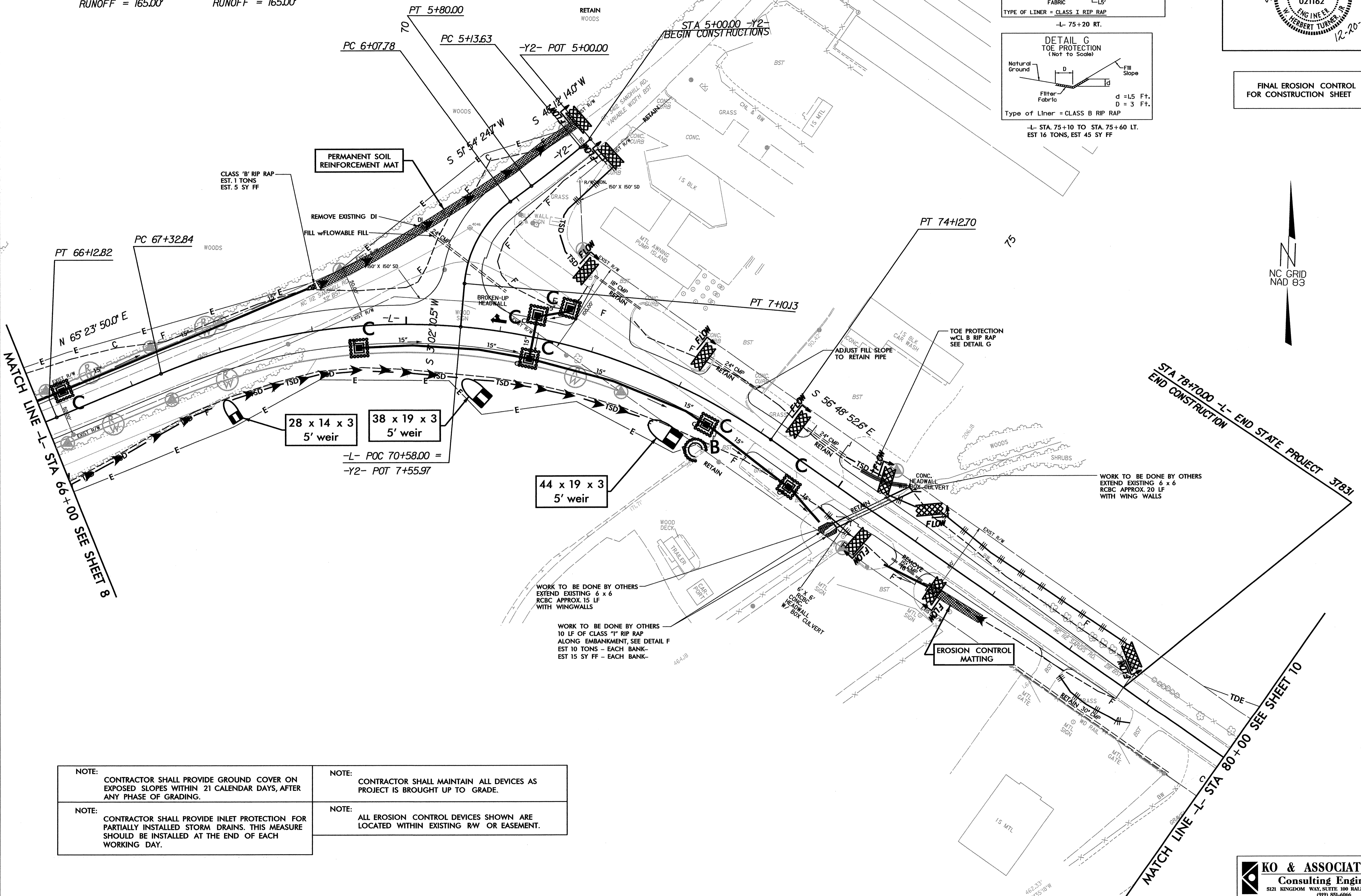
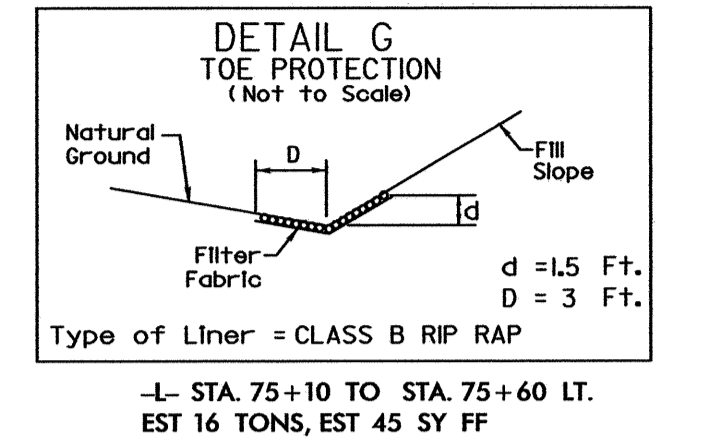
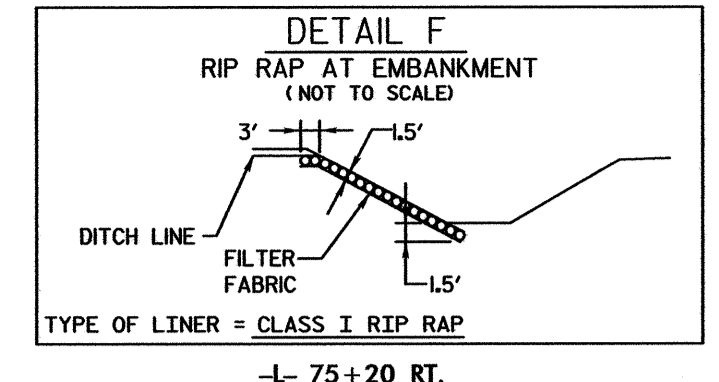
PI Sta 71+04.85
 $\Delta = 57^\circ 47' 17.4''$ (RT)
 $D = 8' 30' 00.0''$
 $L = 679.86'$
 $T = 372.01'$
 $R = 674.0680'$
 $SE = 0.06$
 $RUNOFF = 165.00'$

PI Sta 6+62.30
 $\Delta = 48^\circ 52' 14.2''$ (LT)
 $D = 47' 45' 00.0''$
 $L = 102.35'$
 $T = 54.52'$
 $R = 119.99'$

PI Sta 5+46.82
 $\Delta = 3^\circ 42' 10.6''$ (RT)
 $D = 5' 34' 44.2''$
 $L = 66.37'$
 $T = 33.20'$
 $R = 1,027.00'$

PROJECT REFERENCE NO. 37831	SHEET NO. EC-14/CONST9
RW SHEET NO.	
ROADSIDE ENVIRONMENTAL PROJECT ENGINEER	

**FINAL EROSION CONTROL
FOR CONSTRUCTION SHEET 9**



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| NOTE:
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CONTRACTOR SHALL MAINTAIN ALL DEVICES AS PROJECT IS BROUGHT UP TO GRADE. |
| NOTE:
CONTRACTOR SHALL PROVIDE INLET PROTECTION FOR PARTIALLY INSTALLED STORM DRAINS. THIS MEASURE SHOULD BE INSTALLED AT THE END OF EACH WORKING DAY. | NOTE:
ALL EROSION CONTROL DEVICES SHOWN ARE LOCATED WITHIN EXISTING R/W OR EASEMENT. |