

09/08/99

# EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
	Reforestation	
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
DETAIL	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	
1633.01	Temporary Rock Silt Check Type-A	
1633.02	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	
1636.01	Rock Silt Screen	
1630.04	Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	OR - A)
1632.02	Type B	OR - B)
1632.03	Type C	OR - C)

# STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

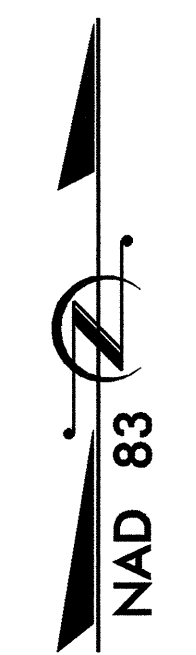
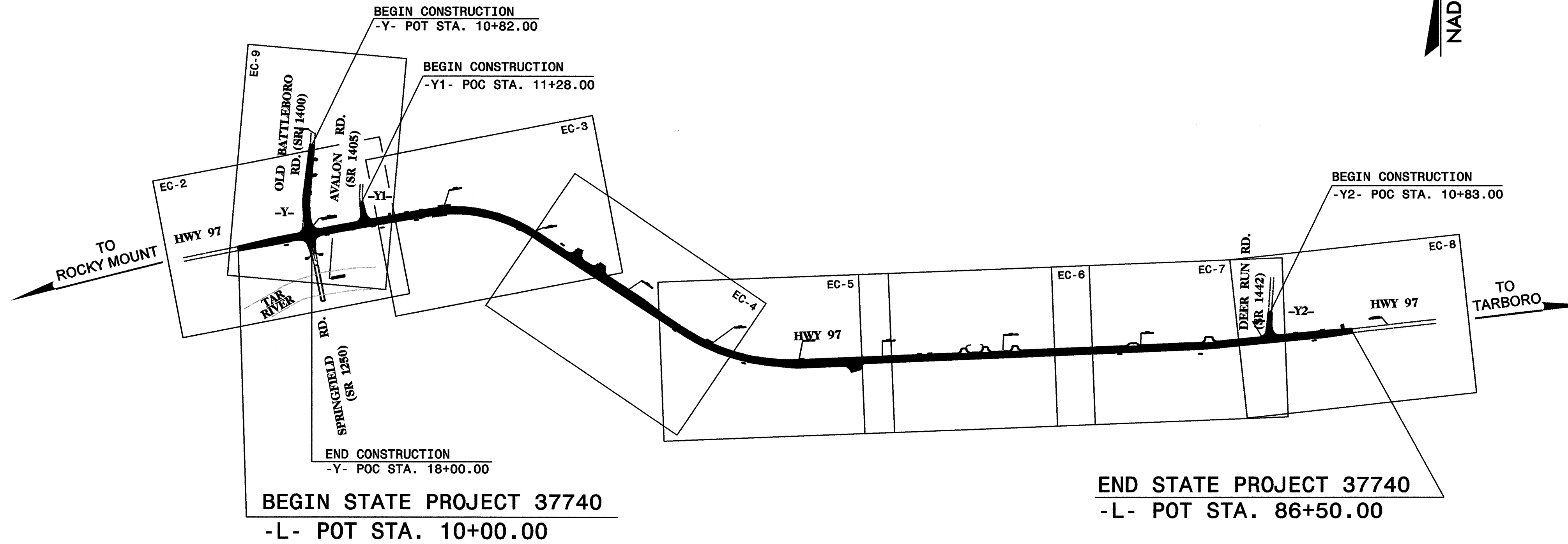
## PLAN FOR PROPOSED HIGHWAY EROSION CONTROL

**LOCATION: NC 97 FROM 0.1 MILES WEST OF SR 1400 (SPRING FIELD ROAD.) TO 0.1 MILES WEST OF SR 1442 (DEER RUN ROAD.)**

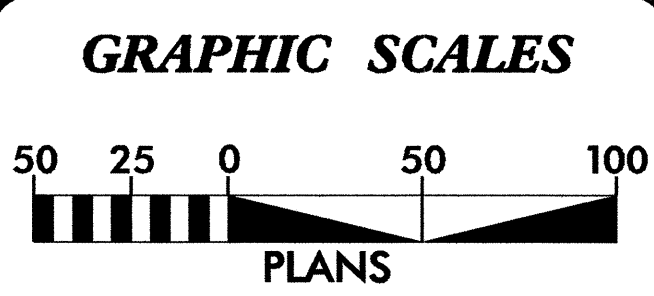
**TYPE OF WORK: GRADING, DRAINAGE, CURB AND GUTTER, WIDENING, PAVING AND GUARDRAIL.**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	37740	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
MA04009R		PE, RW, UTILITIES	

- ### EROSION CONTROL - CONSTRUCTION PHASING
- INSTALL ALL SILT FENCE, PIPE INLET PROTECTION AND INLET PROTECTION DEVICES FOR EXISTING DRAINAGE STRUCTURES PRIOR TO THE COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY.  
CONSTRUCTION SEQUENCE FOR PIPE EXTENSIONS AT STA 44+00 AND 84+00  
A. INSTALL ONE SILT BAG AT EACH LOCATION.  
B. INSTALL IMPERVIOUS DYKE "A", SHEET PILES, DIVERTING WATER UPSTREAM OF THE WORK AREA THROUGH THE EXISTING PIPES DOWNSTREAM OF THE WORK AREA. DIVERT WATER INSIDE THE WORK AREA TO THE SILT BAGS.  
C. CONSTRUCT THE COLLARS AND PIPE EXTENSIONS. AS DIRECTED BY THE SITE ENGINEER DIVERSION OF WATER WILL HAVE TO BE STOPPED.  
D. REMOVE IMPERVIOUS DYKE "A" AND SILT BAGS.
  - INSTALL EROSION CONTROL MEASURES FOR NEW STORM DRAINAGE INLETS AND THE NEW STORM DRAINAGE SYSTEM AS THEY BECOME APPLICABLE DURING CONSTRUCTION.
  - MAINTAIN ALL EROSION CONTROL DEVICES AS PER THE PLANS AND SPECIFICATIONS FOR THE DURATION OF CONSTRUCTION. INSPECT ALL DEVICES AT THE END OF EACH DAY AND AFTER ALL RAINFALL EVENTS.
  - REMOVE EROSION CONTROL DEVICES AFTER THE DRAINAGE AREA UPSTREAM OF THE DEVICE HAS BEEN PERMANENTLY STABILIZED OR AS DIRECTED BY THE ENGINEER
  - UPON REMOVAL OF EROSION CONTROL DEVICES, PROVIDE PERMANENT VEGETATION IN THE AREA UTILIZED BY THE EROSION CONTROL DEVICE AS PER THE PLANS AND SPECIFICATIONS.
  - PROVIDE PERMANENT STABILIZATION FOR ALL DISTURBED AREAS.
- NOTE: ALL EXPOSED SLOPES SHALL BE SEEDED WITHIN 15 WORKING DAYS FOLLOWING ANY PHASE OF GRADING. PERMANENT SEEDING OR SODDING, SHALL BE PROVIDED ON ALL DISTURBED AREAS WITHIN 15 WORKING DAYS OR 90 CALENDAR DAYS (WHICHEVER IS SHORTER) FOLLOWING THE COMPLETION OF GRADING.



**CONTRACT:**



Prepared In the Office of:  
**PB PARSONS BRINCKERHOFF**  
909 AVIATION PARKWAY  
SUITE 1500  
MORRISVILLE, NC 27560

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 20, 2002 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.  
1630.02 Silt Basin Type B  
1632.03 Rock Inlet Sediment Trap Type C  
1633.01 Temporary Rock Silt Check Type-A  
1634.02 Temporary Rock Sediment Dam Type B  
1635.01 Rock Pipe Inlet Sediment Trap Type A

2002 STANDARD SPECIFICATIONS

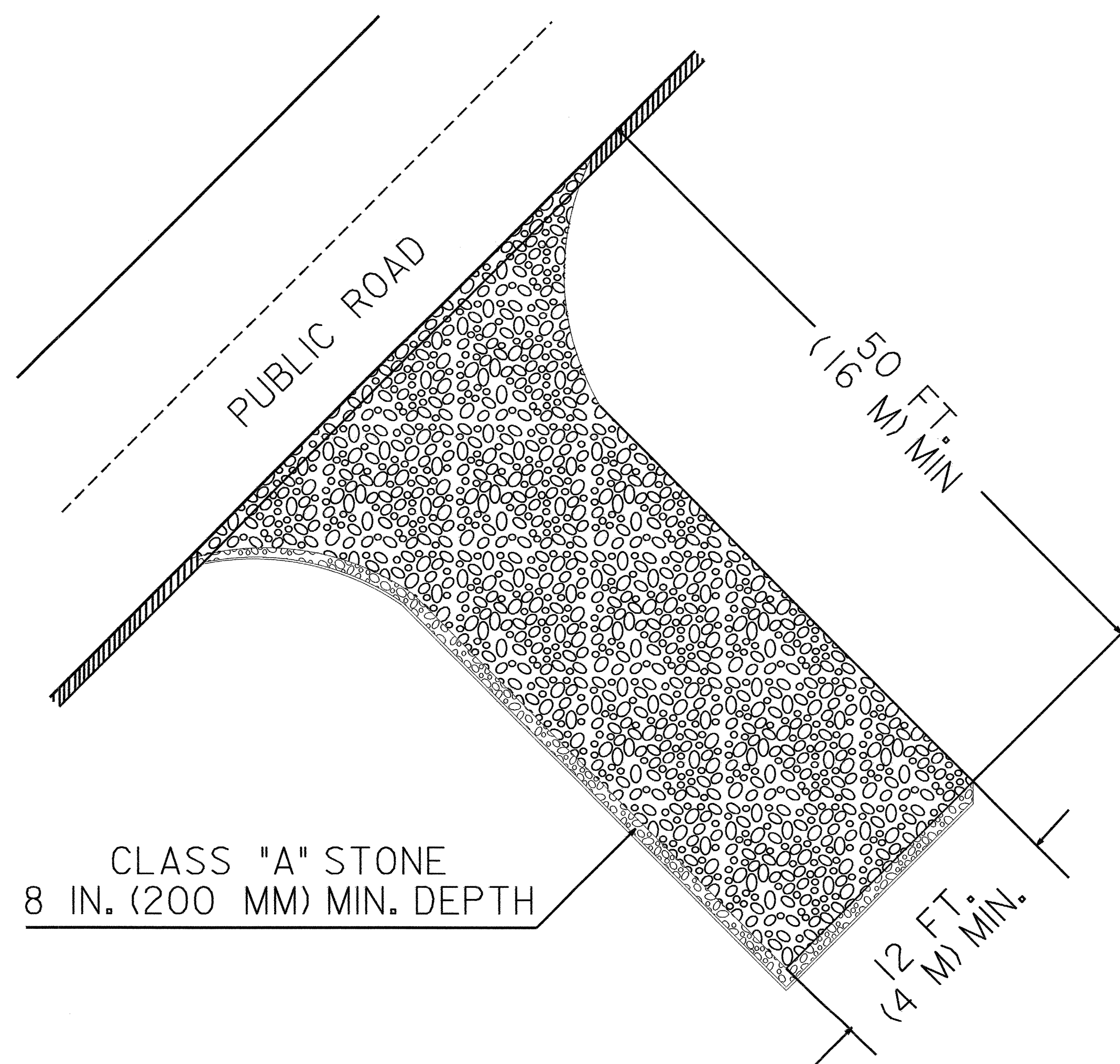
2/28/2007 G:\Projects\20344\NC 97\TIP\Plan Review Changes\Drainage\nc97\_ec\_1.sh.dgn -USERNAME-

PROJECT REFERENCE NO.	SHEET NO.
37740	EC-1A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

### NOTES:

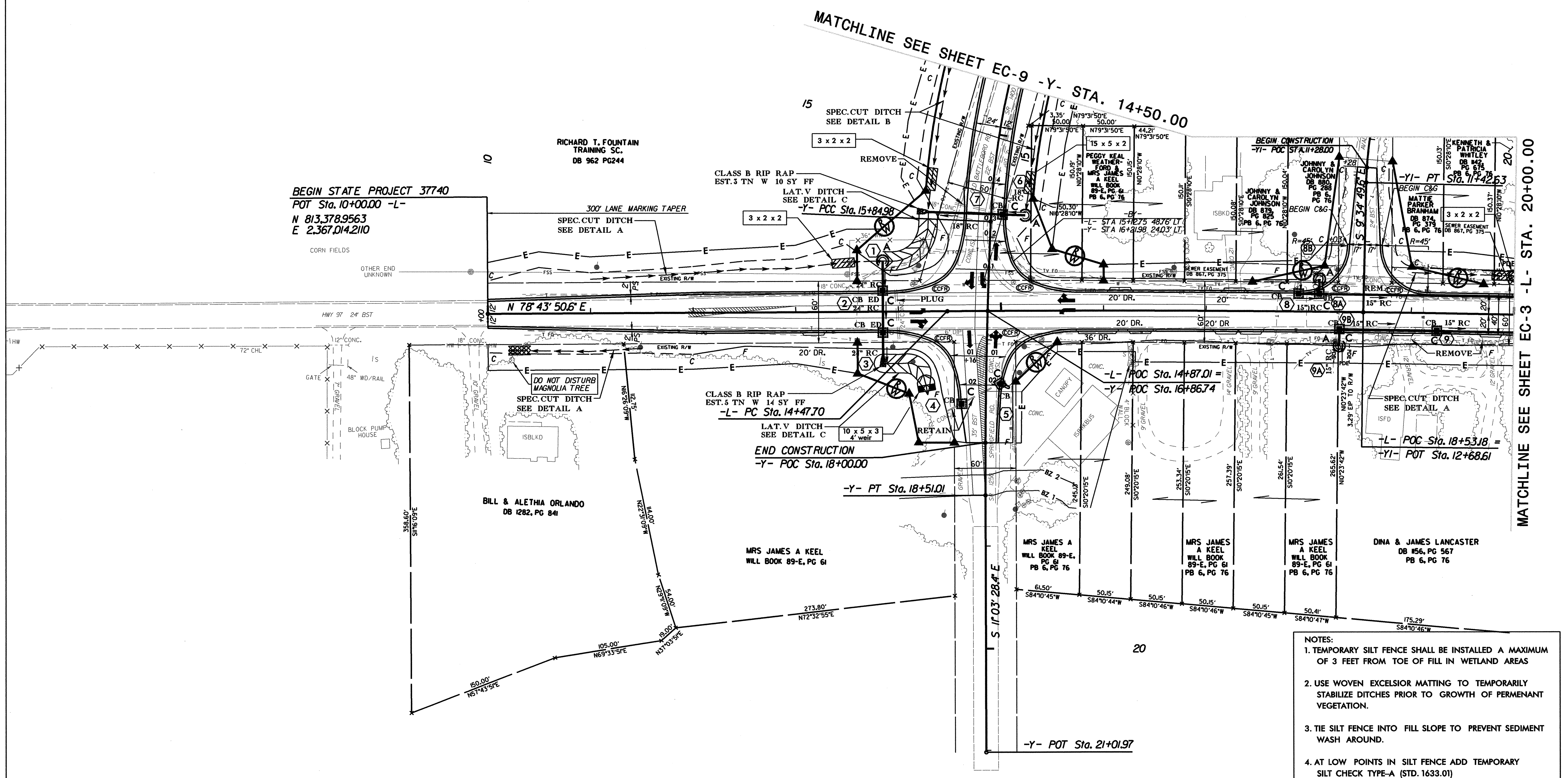
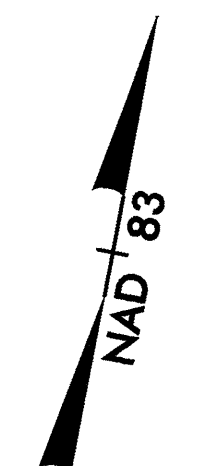
1. TURNING RADIUS SUFFICIENT TO ACCOMODATE LARGE TRUCKS SHALL BE PROVIDED.
2. ENTRANCE(S) SHOULD BE LOCATED TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. GRAVEL CONSTRUCTION ENTRANCE SHALL BE LOCATED AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE MUST BE PROVIDED.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER



NOTE: FILTER FABRIC TO BE PLACED BENEATH STONE



PROJECT REFERENCE NO. 37740		SHEET NO. EC-2/CONST-4	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>PARSONS BRINCKERHOFF</b>			



- NOTES:
1. TEMPORARY SILT FENCE SHALL BE INSTALLED A MAXIMUM OF 3 FEET FROM TOE OF FILL IN WETLAND AREAS
  2. USE WOVEN EXCELSIOR MATTING TO TEMPORARILY STABILIZE DITCHES PRIOR TO GROWTH OF PERMANENT VEGETATION.
  3. TIE SILT FENCE INTO FILL SLOPE TO PREVENT SEDIMENT WASH AROUND.
  4. AT LOW POINTS IN SILT FENCE ADD TEMPORARY SILT CHECK TYPE-A (STD. 1633.01)

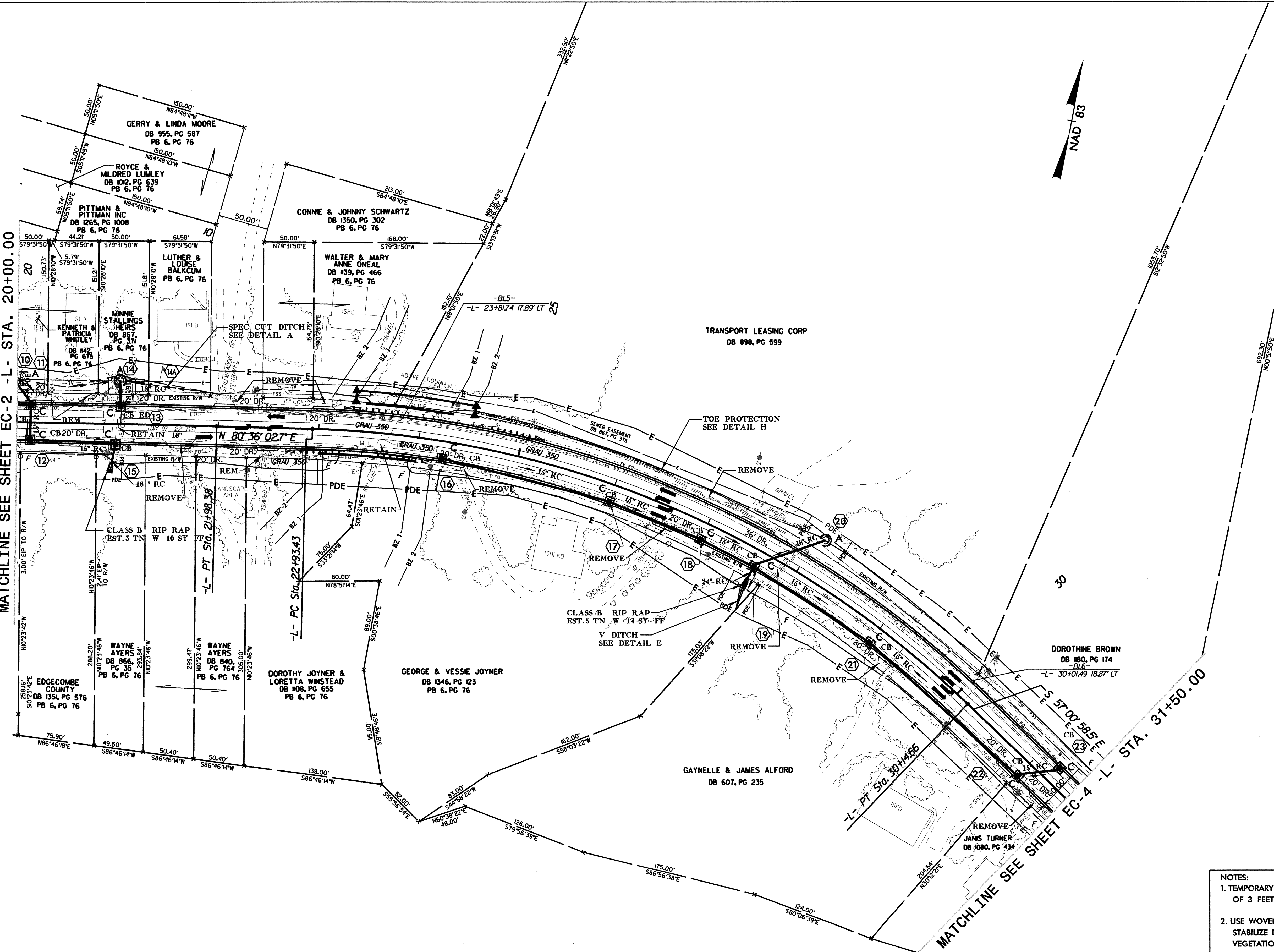
SEE SHEET 12 FOR -L- PROFILE  
SEE SHEET 15 FOR -Y- & -Y1- PROFILE

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 2/28/2007

PROJECT REFERENCE NO. 37740		SHEET NO. EC-3/CONST-5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

MATCHLINE SEE SHEET EC-2 -L- STA. 20+00.00

MATCHLINE SEE SHEET EC-4 -L- STA. 31+50.00



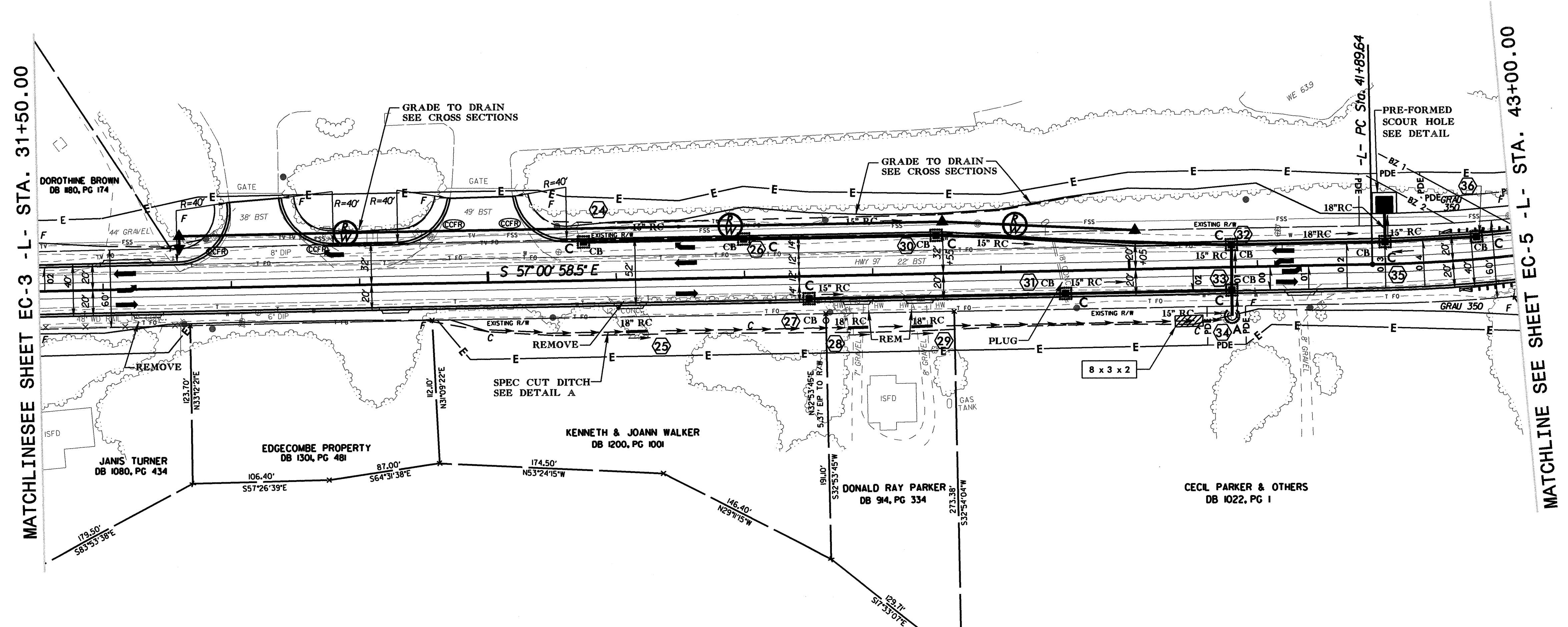
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SEE SHEET 12 FOR -L- PROFILE



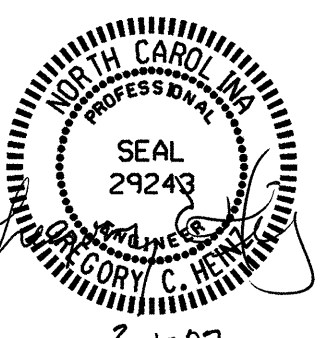
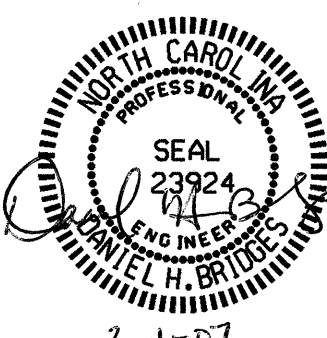

PROJECT REFERENCE NO. 37740	SHEET NO. EC-4/CONST-6
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
<b>PB PARSONS BRINCKERHOFF</b>	

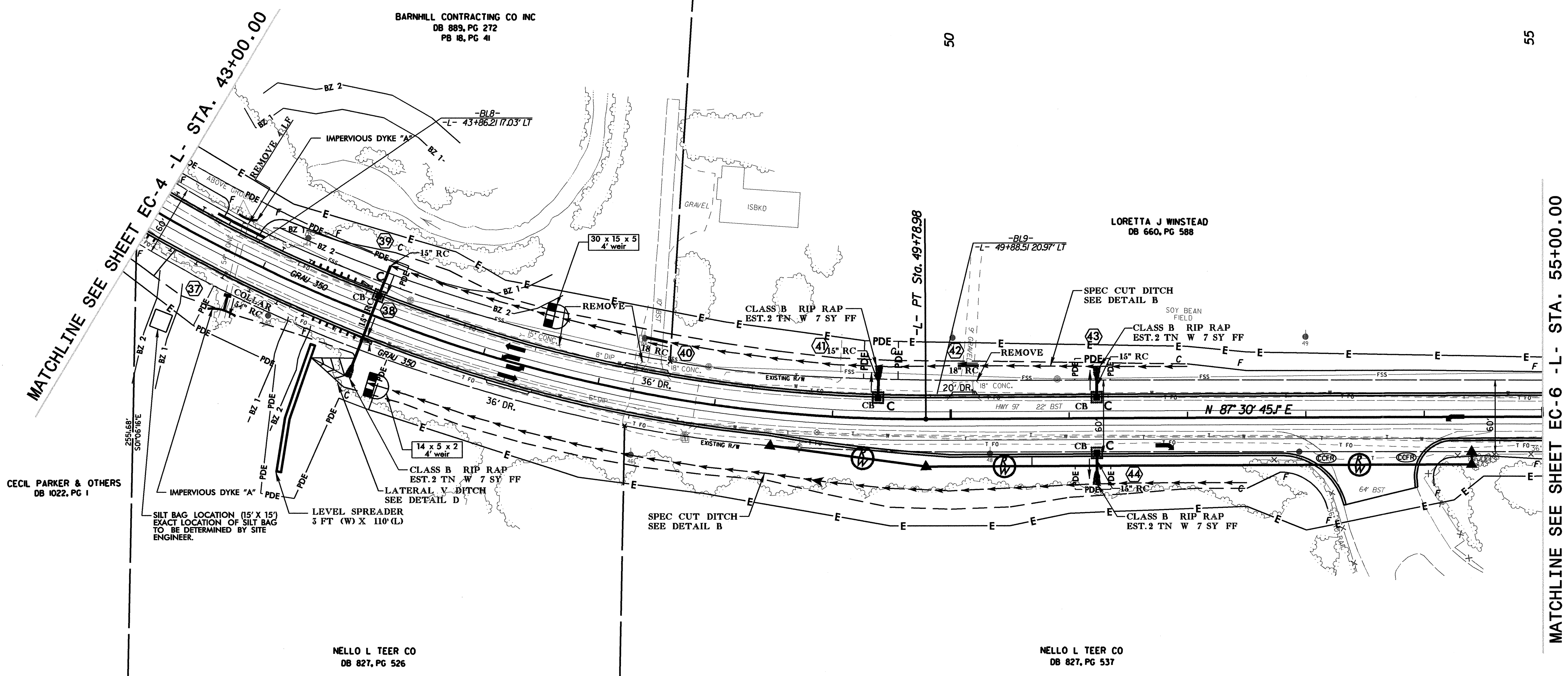
BARNHILL CONTRACTING CO INC  
DB 889, PG 272  
PB 18, PG 41



- NOTES:
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  4. AT LOW POINTS IN SILT FENCE ADD TEMPORARY SILT CHECK TYPE-A (STD. 1633.01)

SEE SHEET 12 & 13 FOR -L- PROFILE



PROJECT REFERENCE NO. 37740	SHEET NO. EC-5/CONST-7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
 SEAL 29249 GREGORY C. HEISTER 3-1-07	 SEAL 23924 DANIEL H. BRITTON 3-1-07
	

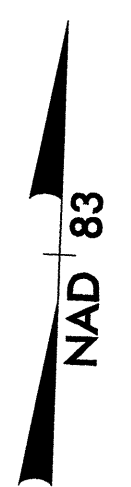


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SEE SHEET 13 FOR -L- PROFILE

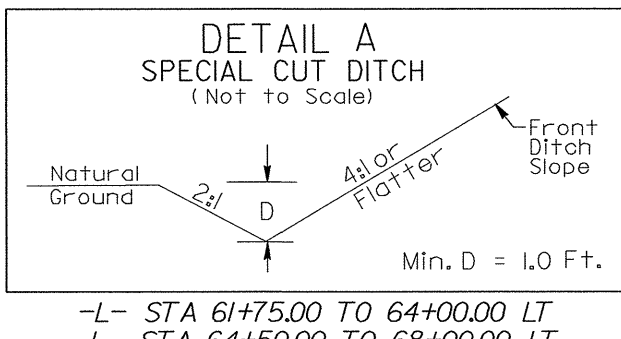
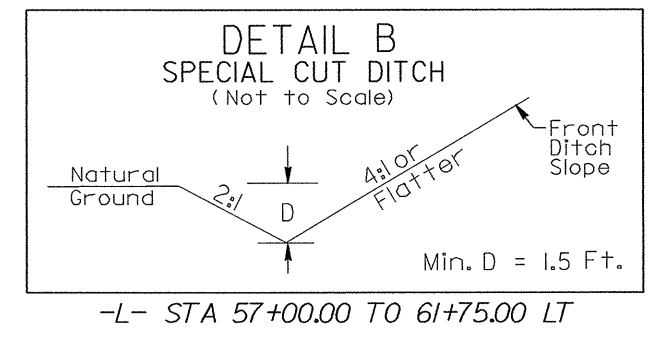
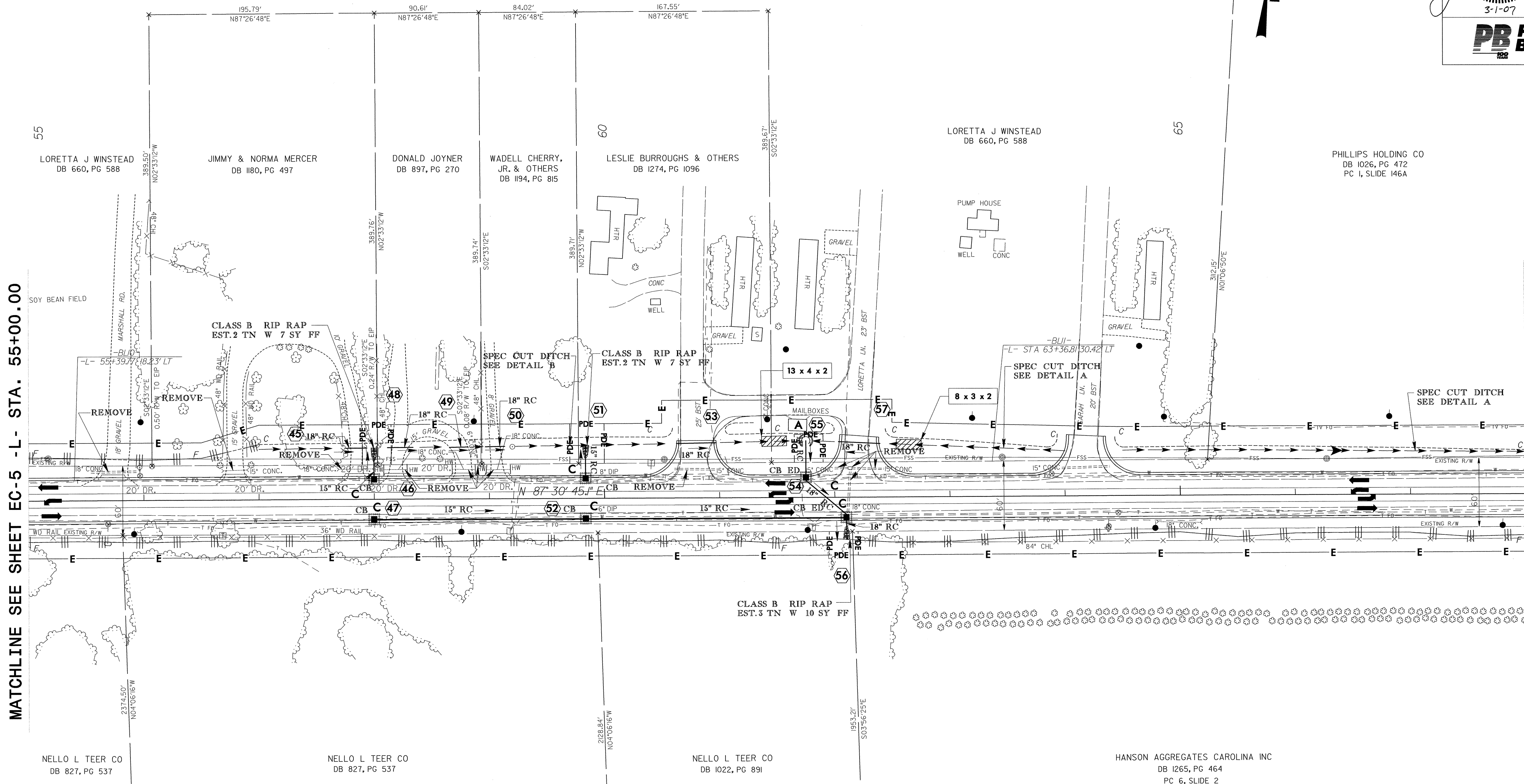
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 2/28/2007

PROJECT REFERENCE NO. 37740		SHEET NO. EC-6/CONST-8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
 SEAL 29248 3-1-07		 SEAL 33224 3-1-07	
<b>PARSONS BRINCKERHOFF</b>			



MATCHLINE SEE SHEET EC-5 -L- STA. 55+00.00

MATCHLINE SEE SHEET EC-7 -L- STA. 68+00.00



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  4. AT LOW POINTS IN SILT FENCE ADD TEMPORARY SILT CHECK TYPE-A (STD. 1633.01)

SEE SHEET 13 & 14 FOR -L- PROFILE

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 \*\*\*prf\*\*\*  
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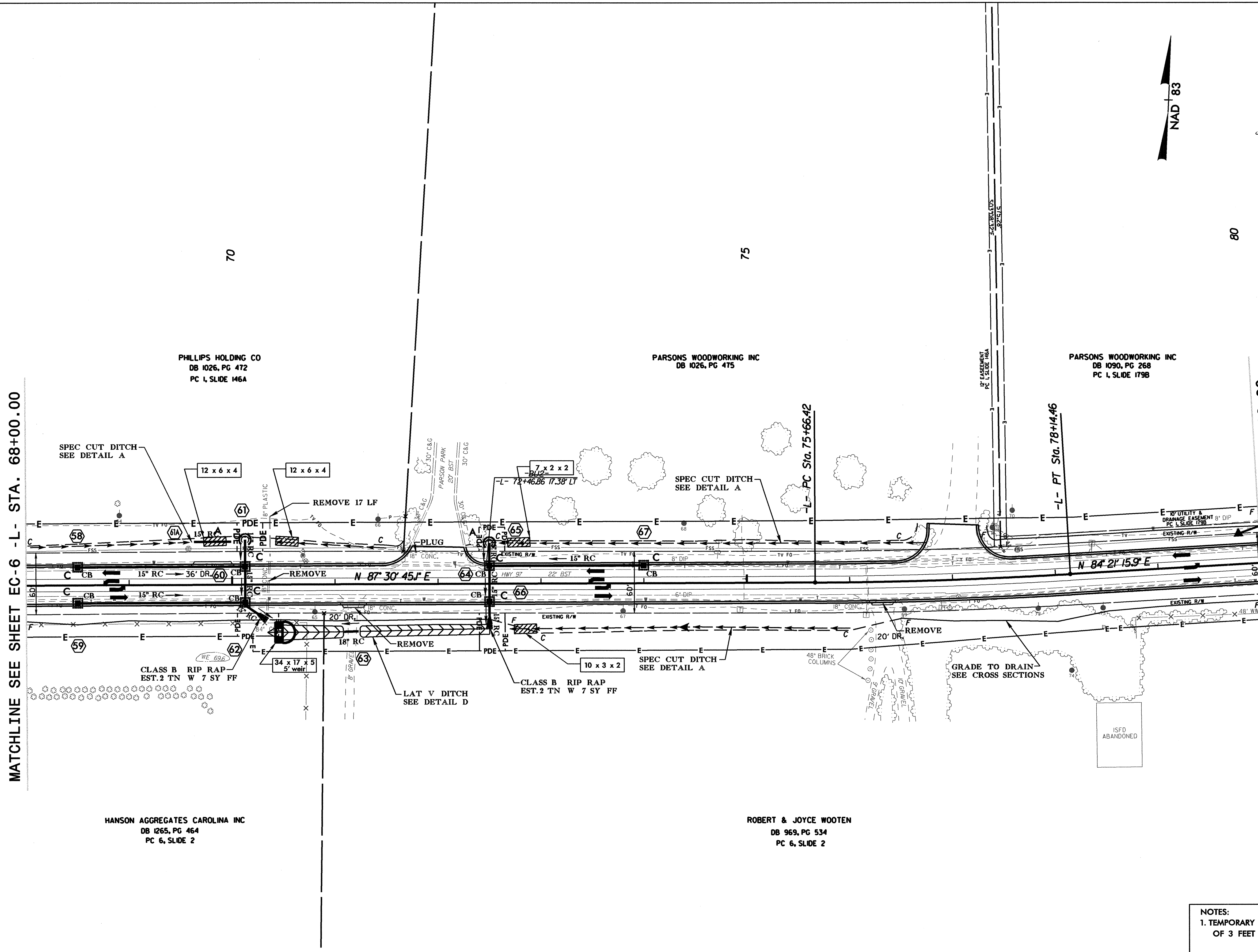


PROJECT REFERENCE NO. 37740		SHEET NO. EC-7/CONST-9	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
<b>PARSONS BRINCKERHOFF</b>			



MATCHLINE SEE SHEET EC-6 -L- STA. 68+00.00

MATCHLINE SEE SHEET EC-8 -L- STA. 80+00.00



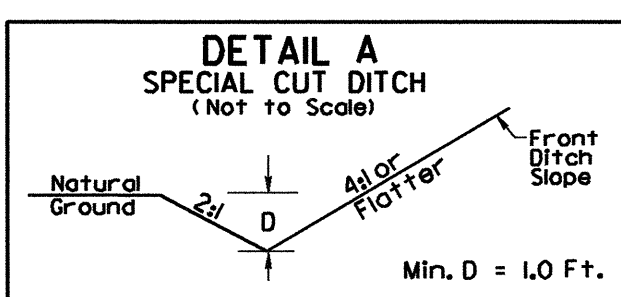
PHILLIPS HOLDING CO  
DB 1026, PG 472  
PC 1, SLIDE 146A

PARSONS WOODWORKING INC  
DB 1026, PG 475

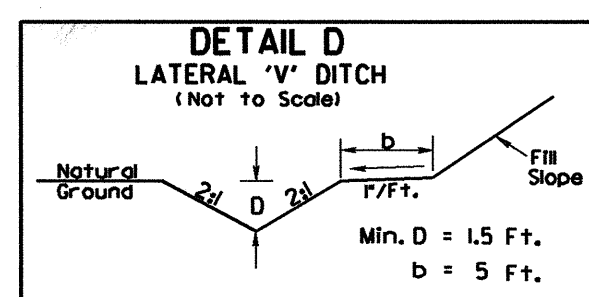
PARSONS WOODWORKING INC  
DB 1090, PG 268  
PC 1, SLIDE 179B

HANSON AGGREGATES CAROLINA INC  
DB 1265, PG 464  
PC 6, SLIDE 2

ROBERT & JOYCE WOOTEN  
DB 969, PG 534  
PC 6, SLIDE 2



-L- STA 68+00.00 TO 71+50.00 LT  
-L- STA 72+50.00 TO 76+75.00 LT  
-L- STA 72+50.00 TO 76+00.00 RT



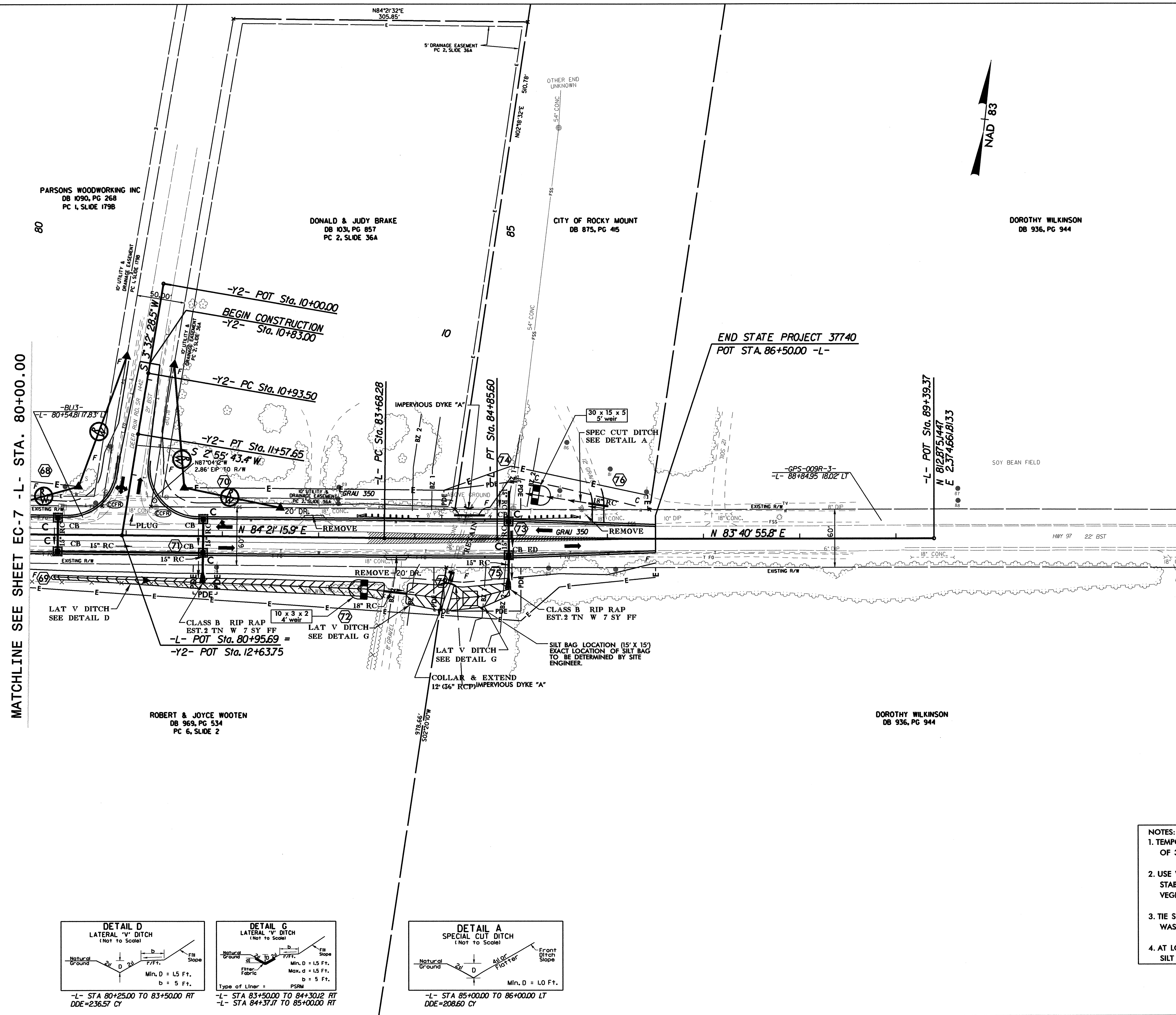
-L- STA 70+35.00 TO 72+50.00 RT DDE=134.23 CY

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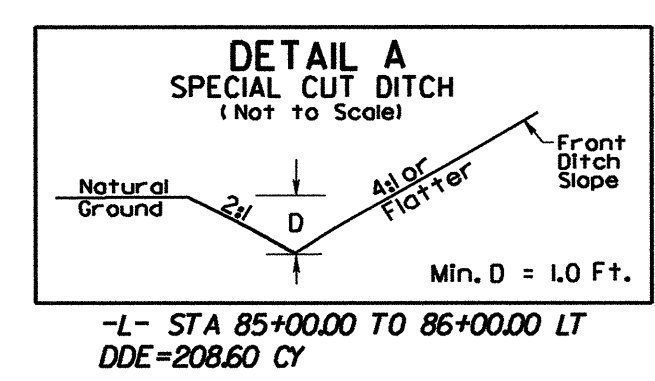
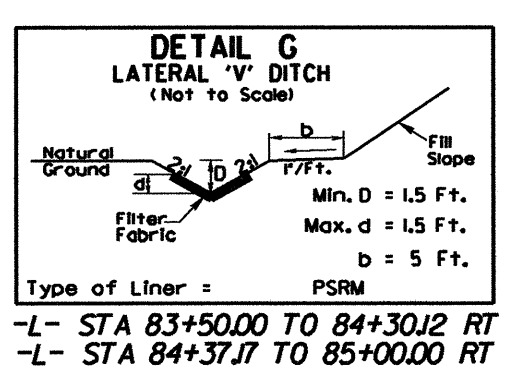
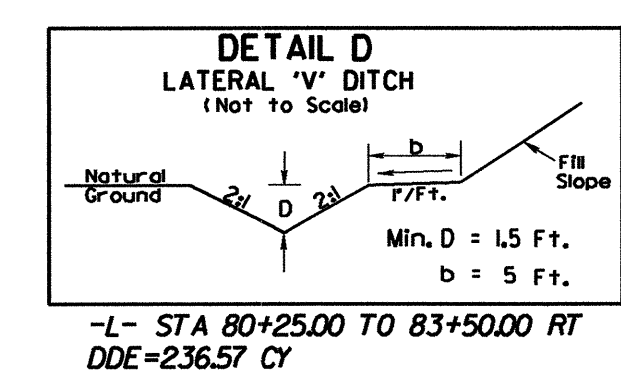
SEE SHEET 14 FOR -L- PROFILE



PROJECT REFERENCE NO. 37740	SHEET NO. EC-8/CONST-10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



MATCHLINE SEE SHEET EC-7 -L- STA. 80+00.00

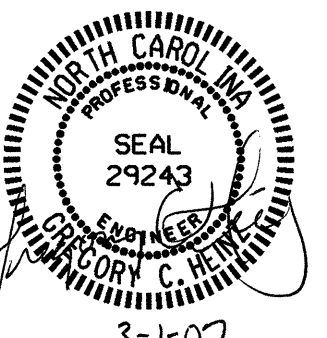
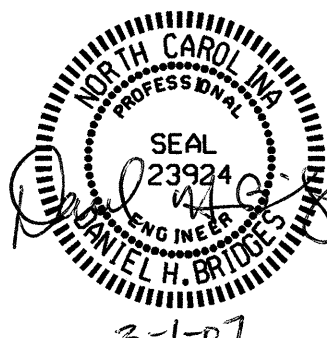


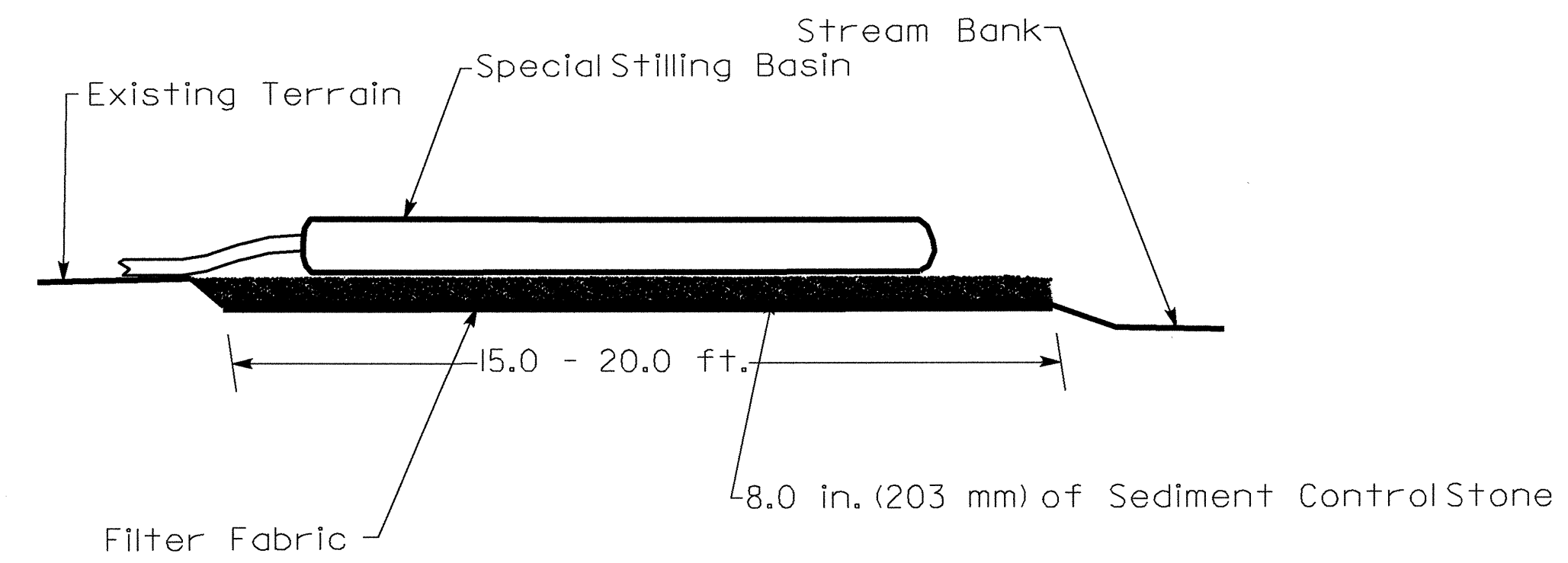
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  4. AT LOW POINTS IN SILT FENCE ADD TEMPORARY SILT CHECK TYPE-A (STD. 1633.01)

SEE SHEET 14 FOR -L- PROFILE  
SEE SHEET 15 FOR -Y2- PROFILE





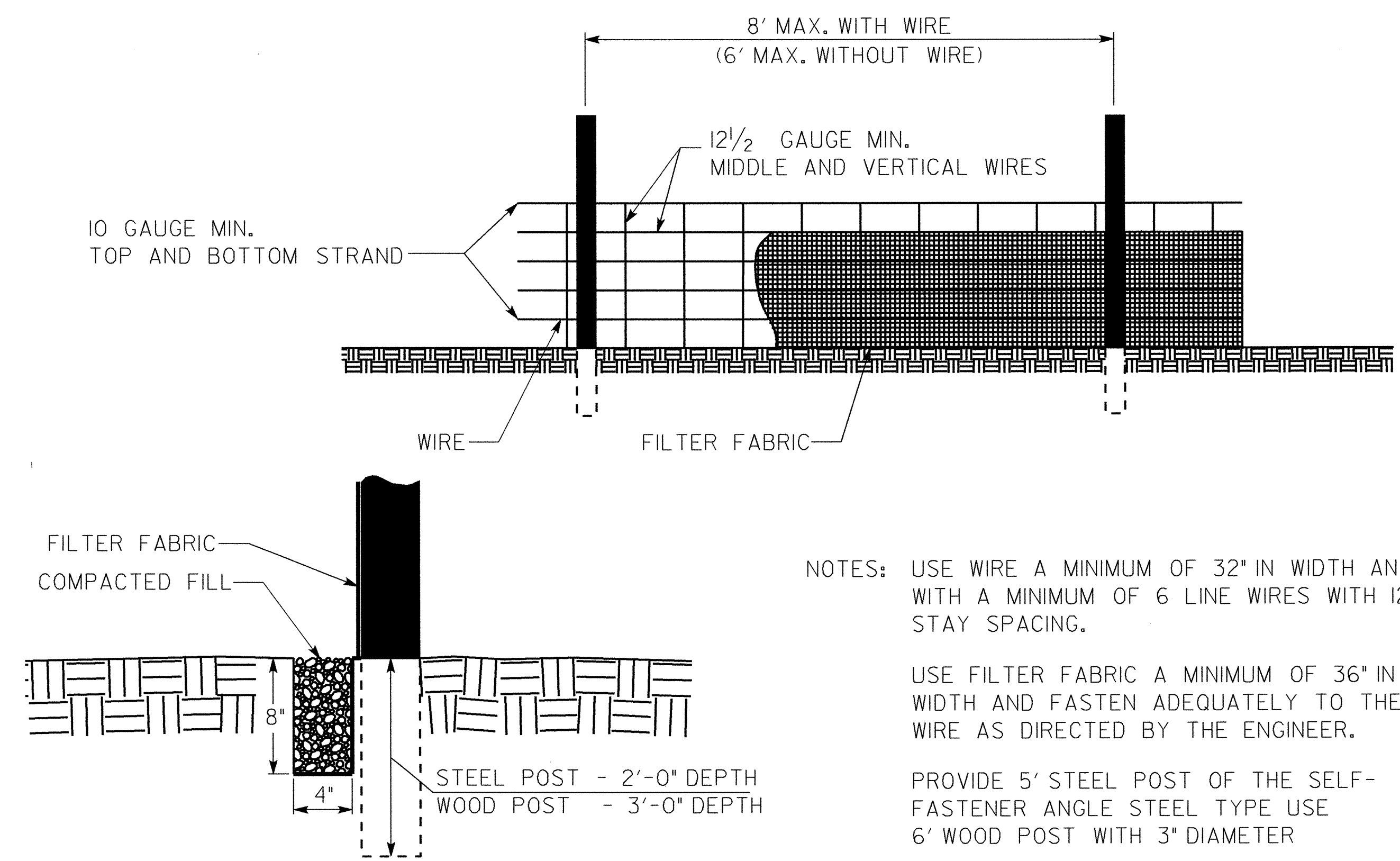
PROJECT REFERENCE NO. 37740	SHEET NO. EC-10
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
<b>PARSONS BRINCKERHOFF</b>	



Not To Scale

Note: Provide Stabilized Outlet to Streambank

### SPECIAL STILLING BASIN WITH ROCK PAD



NOTES: USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.

PROVIDE 5' STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE USE 6' WOOD POST WITH 3" DIAMETER

### EXTENSION OF FABRIC AND WIRE INTO TRENCH

### TEMPORARY SILT FENCE