

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R 4434	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
35600.1.1		PE	
35600.2.1		RW & UTILITY	
35600.3.1		CONST.	

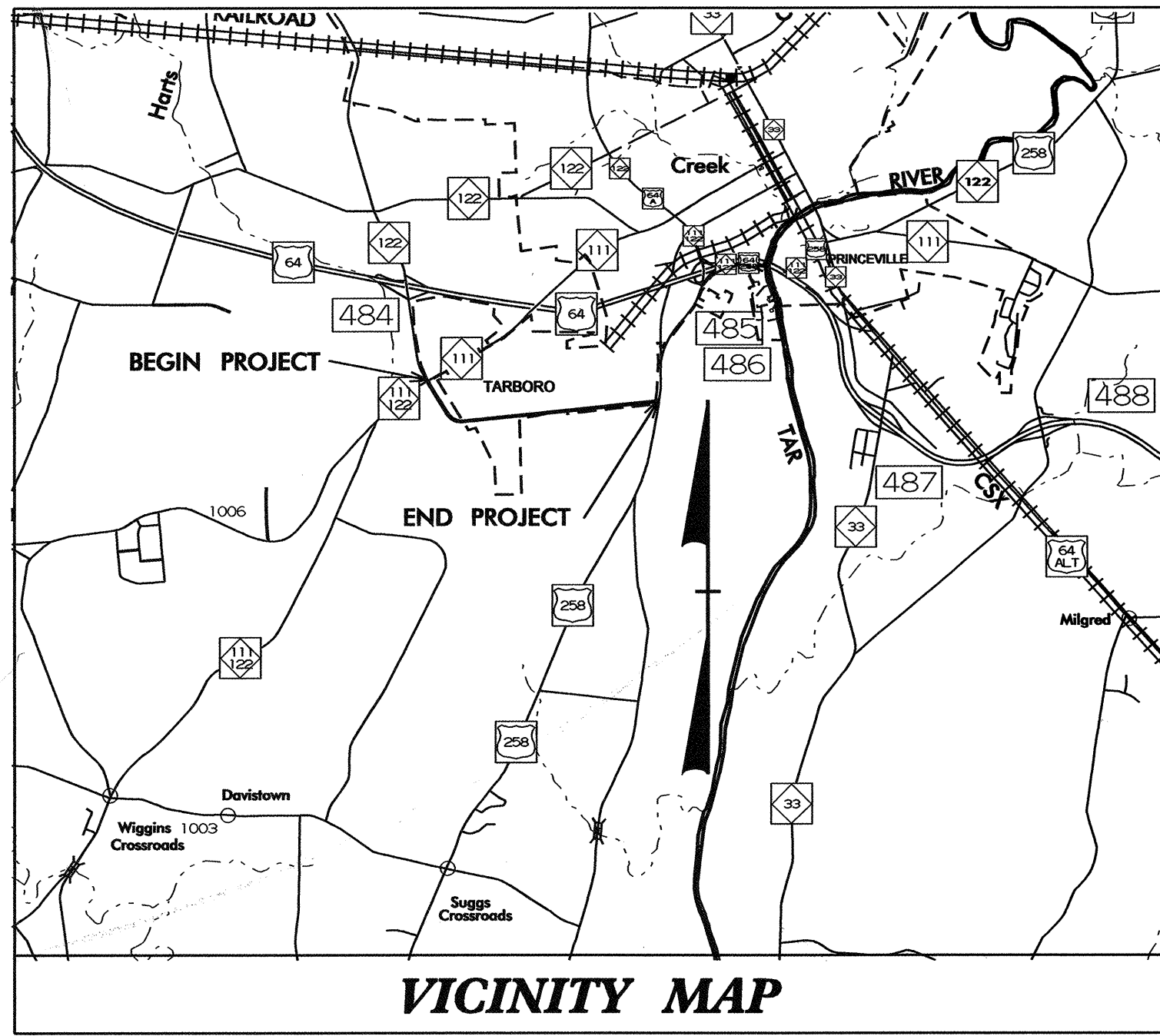
See Sheet 1-A For Index of Sheets

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

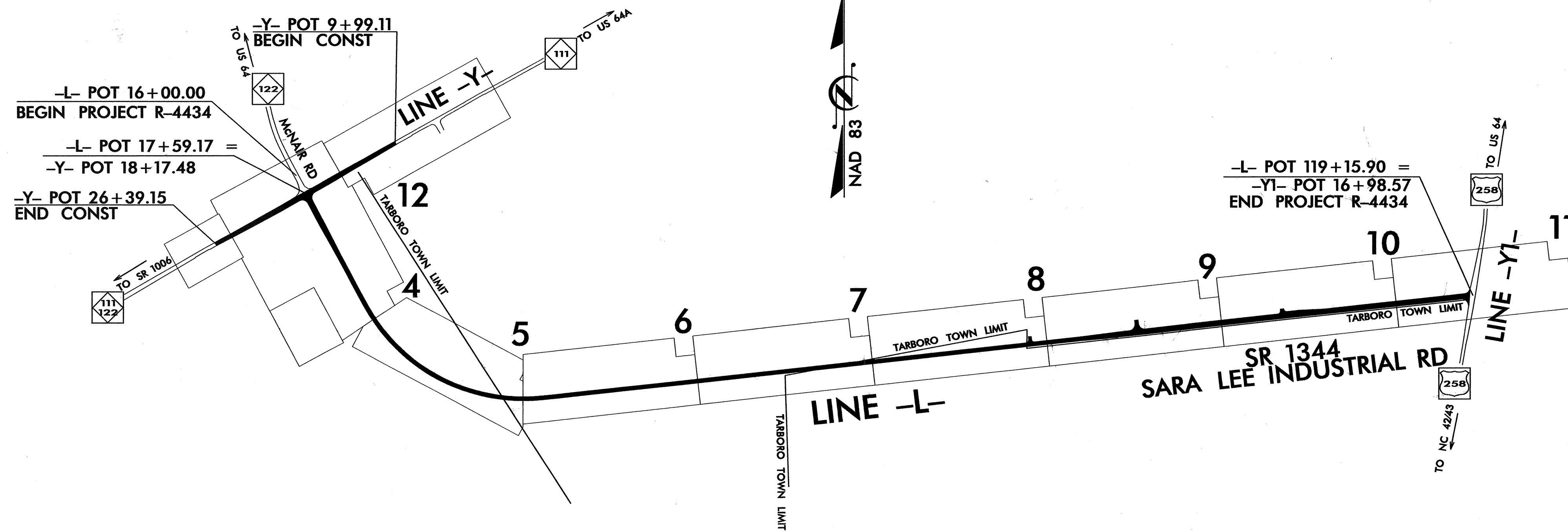
EDGEcombe COUNTY

LOCATION: McNAIR ROAD EXTENSION FROM NC 111/22 TO US 258.

TYPE OF WORK: CLEARING & GRUBBING, GRADING, DRAINAGE, PAVING, CURB & GUTTER AND TRAFFIC SIGNALS.



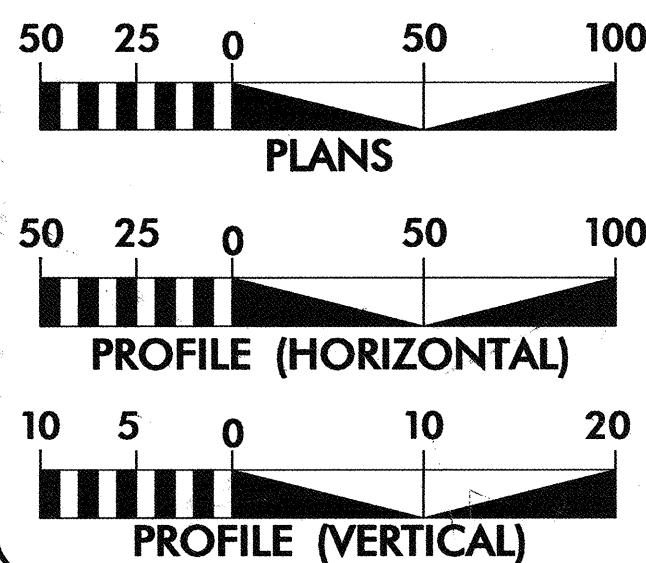
VICINITY MAP



TIP PROJECT: R-4434

CONTRACT: C201190

GRAPHIC SCALES



DESIGN DATA

ADT 2006 = 4500
ADT 2025 = 7200
DHV = 10 %
D = 60 %
T = 7 % *
V = 60MPH
* TTST 3% DUAL 4%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-4434 = 1.954 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
Division 4 DDC
509 Ward Blvd., Wilson NC, 27895

2006 STANDARD SPECIFICATIONS

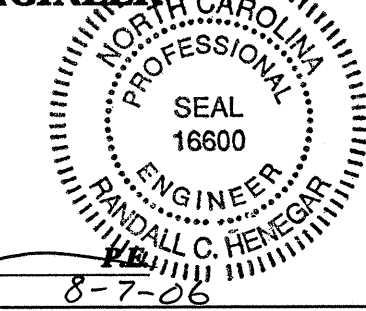
RIGHT OF WAY DATE:
AUGUST 6, 2004

LETTING DATE:
OCTOBER 17, 2006

R. E. GREENE, JR., PE
PROJECT ENGINEER

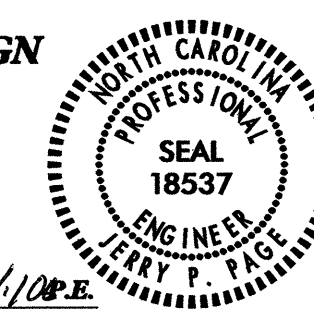
J. C. CAULEY, PLS
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER



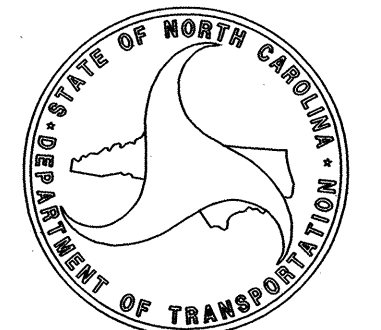
SIGNATURE: *R.C. Henschler*

ROADWAY DESIGN ENGINEER



SIGNATURE: *J.P. Pace*

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

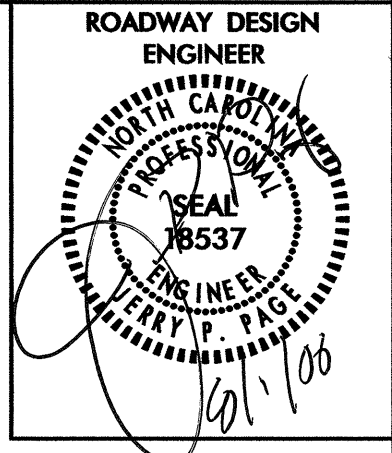


STATE HIGHWAY DESIGN ENGINEER

09/28/09

10

01-AUG-2006 10:25
c:\pdy\rdy\rdy\ncdot\1-4434\1-4434-tsh_6d54.dgn
gethrige AT NCDOT-C1487EE3A



STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

INDEX OF SHEETS
R-4434

SHEET NUMBER	SHEET TITLE SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS
1-B	CONVENTIONAL SYMBOLS
1-C	CENTERLINE COORDINATE LIST
2 THRU 2-A	TYPICAL SECTIONS, PAVEMENT SCHEDULE, AND WEDGING DETAIL
3	SUMMARY OF QUANTITIES
3-A THRU 3-B	DRAINAGE SUMMARY
3-C	PAVEMENT REMOVAL SUMMARY AND EARTHWORK SUMMARY
3-D	RIGHT OF WAY AREA DATA SHEET
4 THRU 13	PLAN AND PROFILE SHEETS
TCP-1 THRU TCP-6	TRAFFIC CONTROL PLANS
PM-1 THRU PM-5	PAVEMENT MARKING PLANS
EC-1 THRU EC-21	EROSION CONTROL PLANS
SIG-1 THRU SIG-11	SIGNAL PLANS
UC-0 THRU UC-5	UTILITY CONSTRUCTION PLANS
UO-1 THRU UO-5	UTILITY BY OTHERS PLANS
X	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-79	CROSS-SECTIONS

GENERAL NOTES: 2006 SPECIFICATIONS
EFFECTIVE: 07-18-06
REVISED:

GRADING AND SURFACING OR RESURFACING AND WIDENING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

GRADING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED OR FUTURE SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD 111.

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3" RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

STREET TURNOUT:

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

TEMPORARY SHORING:

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITIES:

UTILITY OWNERS ON THIS PROJECT ARE Edgecombe-Martin EMC-Power Trans.

Sprint-Telephone, Town of Tarboro-Power Distribution, Piedmont Natural Gas

Aldelphia-CATV, Cox Communications-CATV, and Town of Tarboro-Water

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY CONTRACT.

2006 ROADWAY STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated July 18, 2006 are applicable to this project and by reference hereby are considered a part of these plans:

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method 111
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Super-elevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
300.02	Method of Pipe Installation - Method 'B'
310.10	Driveway Pipe Construction
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Super-elevated Curve - Method 1
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
806.01	Concrete Right-of-Way Marker
840.00	Concrete Base Pad for Drainage Structures
840.01	Brick Catch Basin - 12" thru 54" Pipe
840.02	Concrete Catch Basin - 12" thru 54" Pipe
840.03	Frame, Grates and Hood - for Use on Standard Catch Basin
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.05	Wheelchair Ramp - Curb Cut
876.02	Guide for Rip Rap at Pipe Outlets

EFF. 07-18-06

10/25/05

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○
Property Corner	-----
Property Monument	□
Parcel/Sequence Number	(23)
Existing Fence Line	-----
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○
Well	○
Small Mine	⋈
Foundation	□
Area Outline	□
Cemetery	+
Building	□
School	□
Church	+
Dam	▬

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
Jurisdictional Stream	JS
Buffer Zone 1	BZ 1
Buffer Zone 2	BZ 2
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Swamp Marsh	▬
Proposed Lateral, Tail, Head Ditch	-----
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Utility Easement	-----

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Wheel Chair Ramp	-----
Curb Cut for Future Wheel Chair Ramp	-----
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	-----

VEGETATION:

Single Tree	○
Single Shrub	○
Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

EXISTING STRUCTURES:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	□
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊠
Power Transformer	⊠
U/G Power Cable Hand Hole	⊠
H-Frame Pole	●
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	⊠
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	⊠
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

WATER:

Water Manhole	⊕
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	-----

TV:

TV Satellite Dish	⊠
TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	⊠
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	-----
Designated U/G Gas Line (S.U.E.*)	-----
Above Ground Gas Line	-----

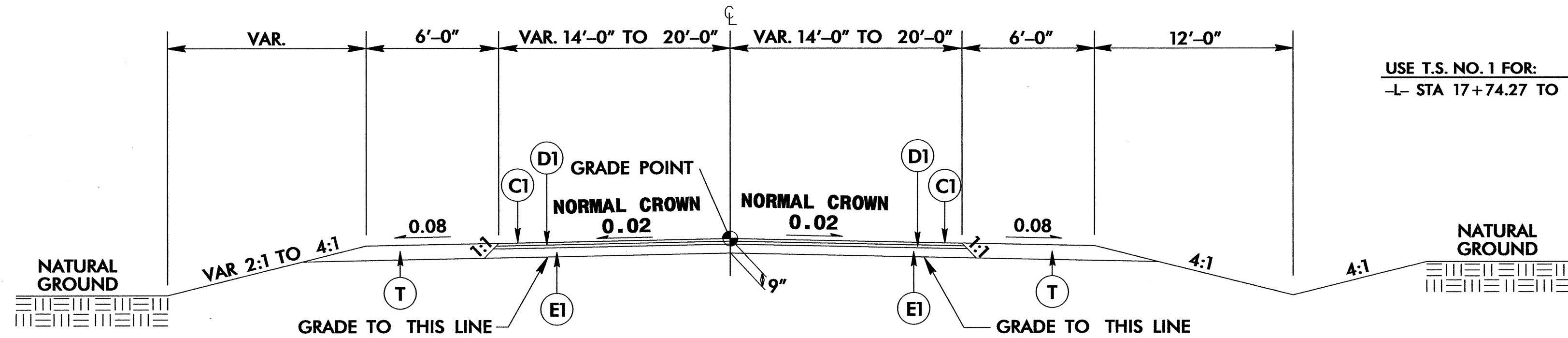
SANITARY SEWER:

Sanitary Sewer Manhole	⊕
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	-----
Recorded SS Forced Main Line	-----
Designated SS Forced Main Line (S.U.E.*)	-----

MISCELLANEOUS:

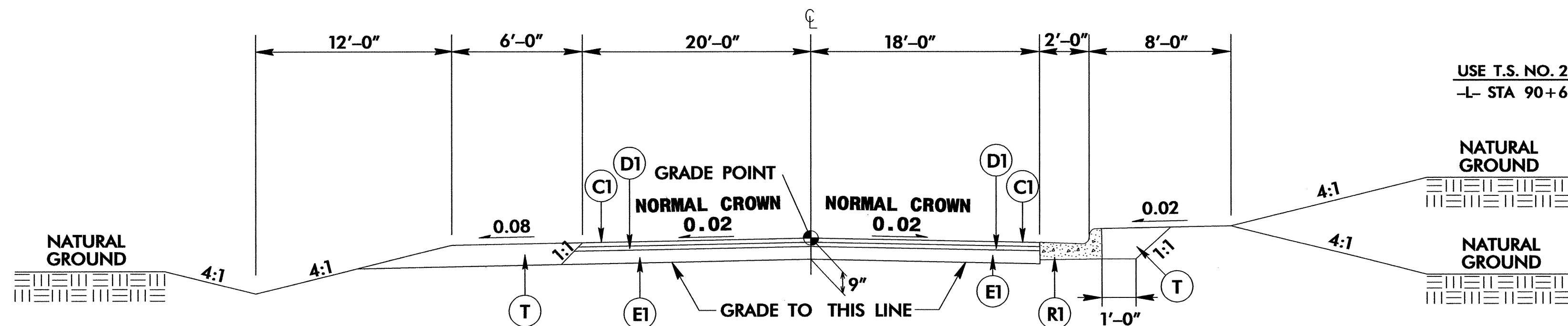
Utility Pole	●
Utility Pole with Base	⊠
Utility Located Object	○
Utility Traffic Signal Box	⊠
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
A/G Tank; Water, Gas, Oil	□
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

NOTE: RESURFACE WITH C1 FROM -L- STA 16+00.00 TO 17+74.27



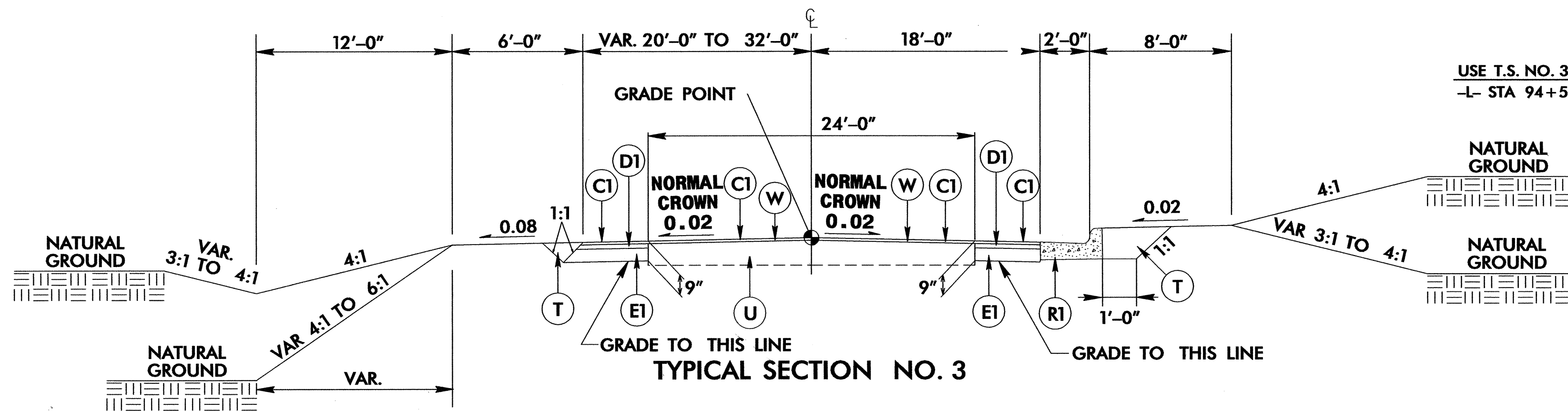
TYPICAL SECTION NO. 1

USE T.S. NO. 1 FOR:
-L- STA 17+74.27 TO 90+65.24



TYPICAL SECTION NO. 2

USE T.S. NO. 2 FOR:
-L- STA 90+65.24 TO 94+50



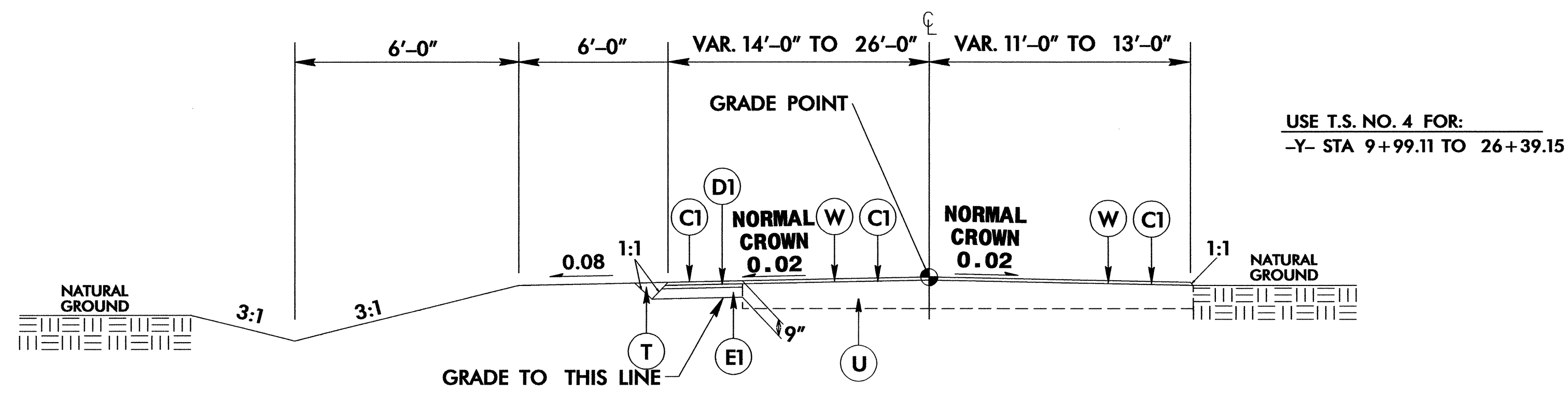
TYPICAL SECTION NO. 3

USE T.S. NO. 3 FOR:
-L- STA 94+50 TO 119+15.90

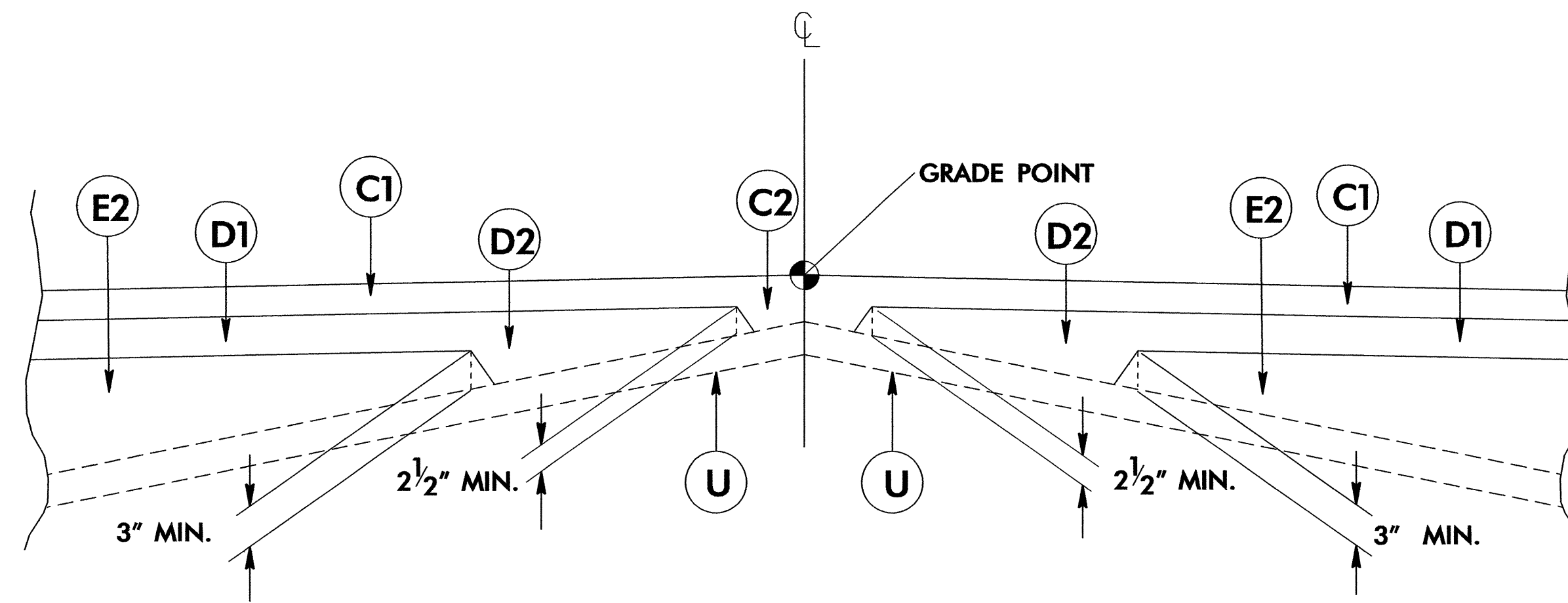
PAVEMENT SCHEDULE

C1	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2½" IN DEPTH OR GREATER THAN 4" IN DEPTH.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5½" IN DEPTH.
R1	2'-6" CONCRETE CURB AND GUTTER.
U	EXISTING PAVEMENT.
T	EARTH MATERIAL.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE DETAIL SHOWING METHOD OF WEDGING)

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION NO. 4



DETAIL SHOWING METHOD OF WEDGING

PAVEMENT SCHEDULE	
C1	2" S9.5B
C2	VAR. S9.5B
D1	3" I19.0B
D2	VAR. I19.0B
E1	4" B25.0B
E2	VAR. B37.5B
R1	2'-6" CONC. C&G
T	EARTH MATERIAL
U	EXIST. PAVEMENT
W	WEDGING

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

SUMMARY OF EARTHWORK
 Volumes in Cubic Yard

**SUMMARY OF EXISTING ASPHALT
 PAVEMENT REMOVAL**

STATION TO STATION	Uncl. Excav.	UNDERCUT	Embank. +%	Borrow	Waste
-Y- 09+99.11 TO 26+39.15	653		501		152
-L- 18+50.00 TO 43+50.00	2586		6553	4226	259
SUBTOTAL	3239		7054	4226	411
-L- 43+50.00 TO 68+50.00	355		17321	17001	35
SUBTOTAL	355		17321	17001	35
-L- 68+50.00 TO 94+50.00	13464		593		12871
SUBTOTAL	13464		593		12871
-L- 94+50.00 TO 118+50.00	1921		6888	5159	192
SUBTOTAL	1921		6888	5159	192
TOTAL	18979		31856	26386	13509
EARTH WASTE TO REPL. BOR.				-11612	-11612
EST. SHOULDER MATERIAL			3500	3500	
PROJECT TOTAL	18979		35356	18274	1897
ESTIMATE TO REPLACE TOPSOIL ON BORROW				914	
GRAND TOTAL	18979			19188	
SAY	19000			19200	
ESTIMATE OF UNDERCUT		1000			

LINE	Station	Station	LOC LT/RT/CL	SY
L	92+15.00	94+50.00		856
TOTAL				856
SAY				900

Quantities are approximate only. The Resident Engineer will recross-section the work accurately when the project is staked out. These cross-section notes will be used in computing the final quantities for which the contractor will be paid.

8/17/99

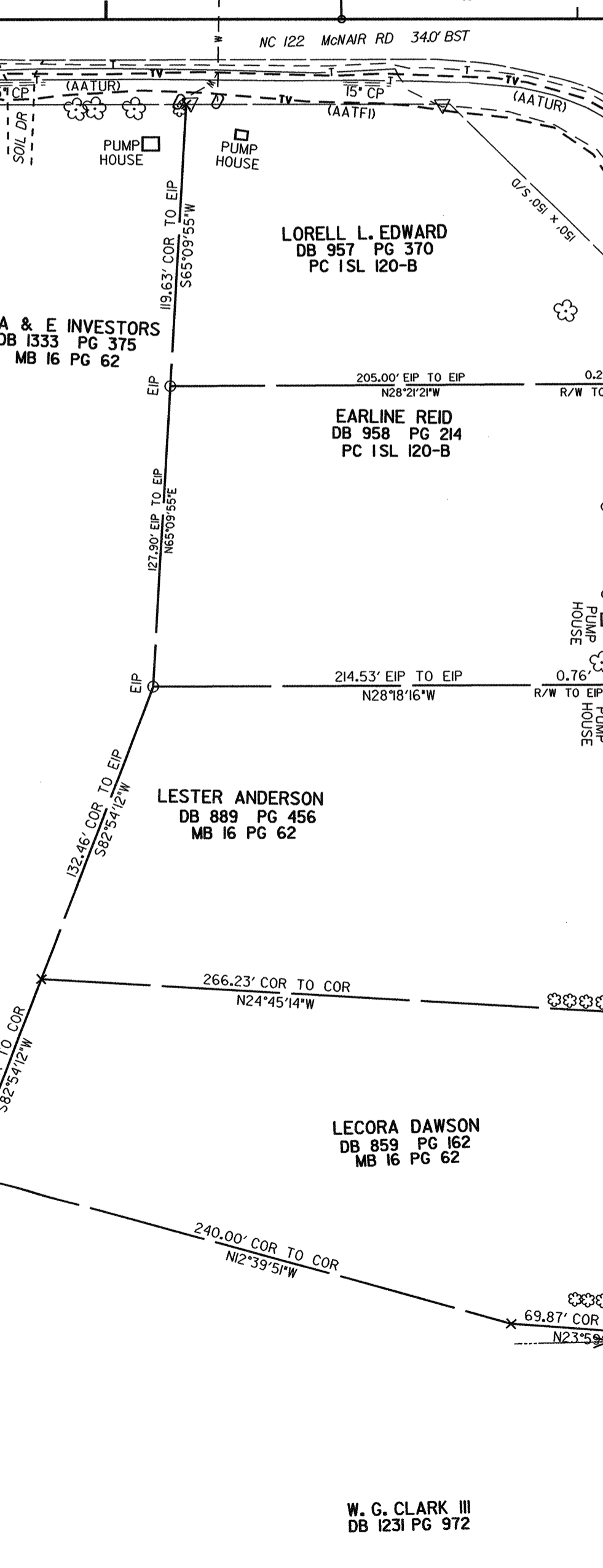
MATCHLINE -Y- 15+00.00 SEE SHEET 12

★ PROPOSED SIGNAL

CAROLINA SYSTEMS TECHNOLOGY
DB 1195 PG 170
PC 4 PG 165

GPS (R4434-2)
-BL- PINC 12+00.57 =
-BY- PINC 11+62.70
-L- POT 17+24.36
61.14 LT ELEV. 113.05'
-L- POT 17+59.17 =
-Y- POT 18+17.48

-L- POT 16+00.00
BEGIN PROJECT
R-4434

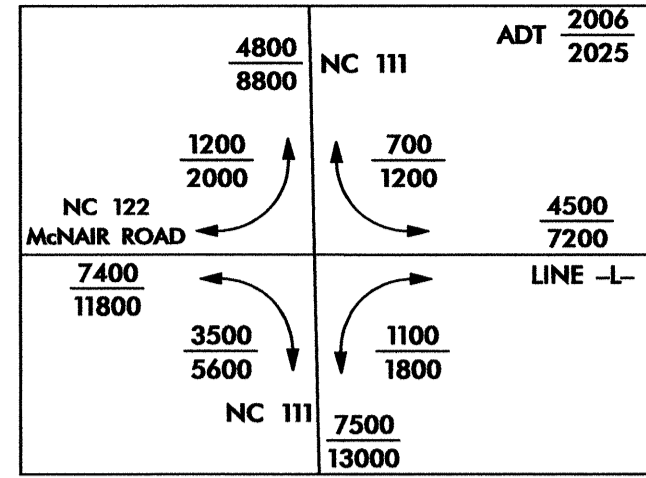


W. G. CLARK III
DB 1231 PG 972

MATCHLINE -Y- 25+00.00 SEE THIS SHEET

25

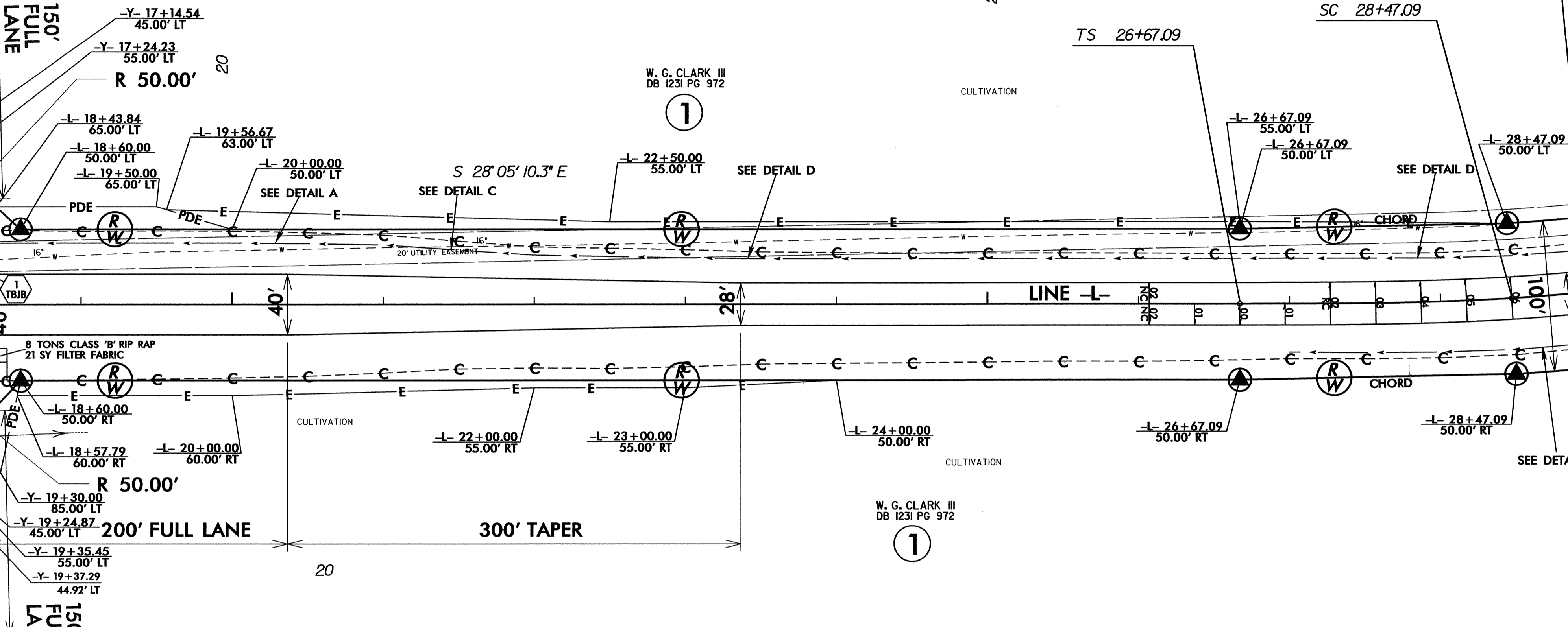
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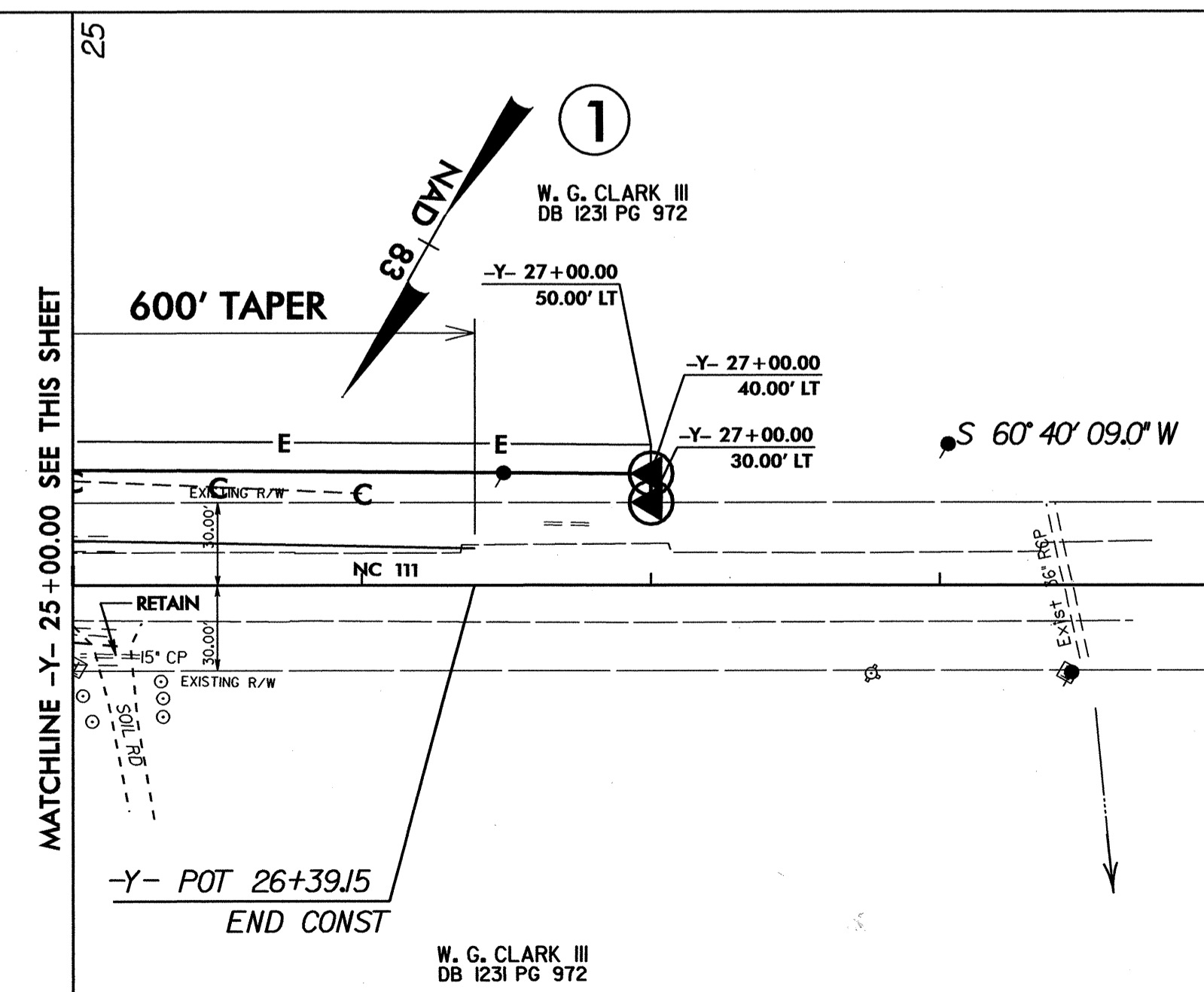
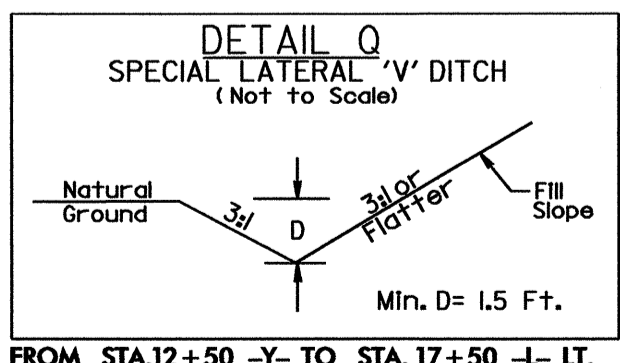
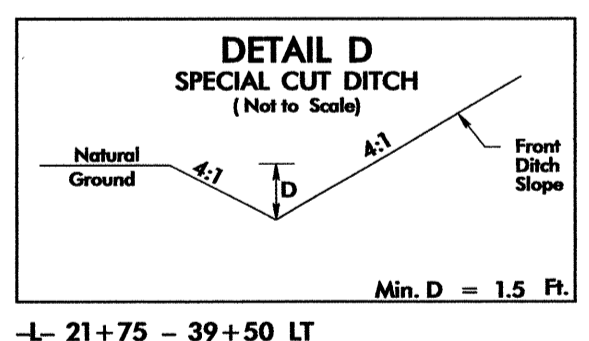
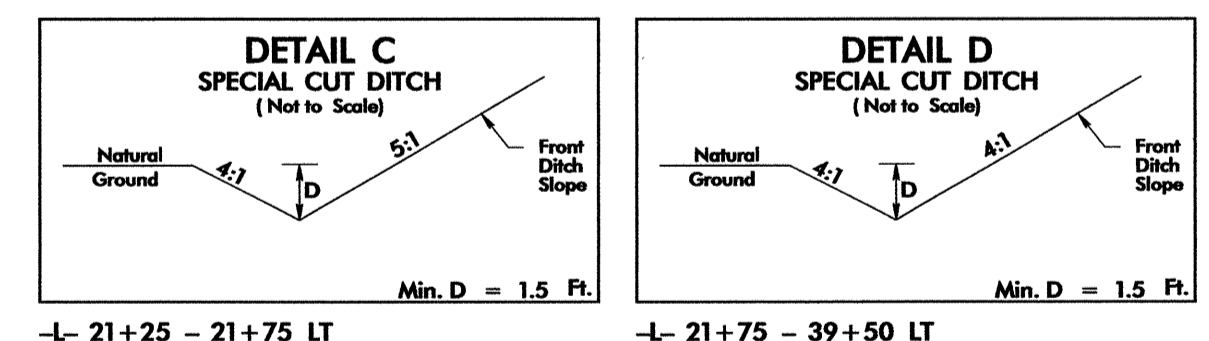
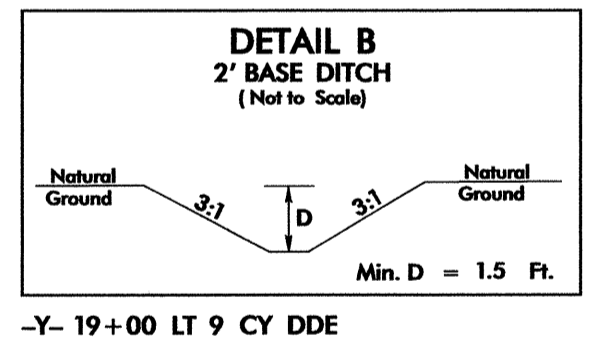
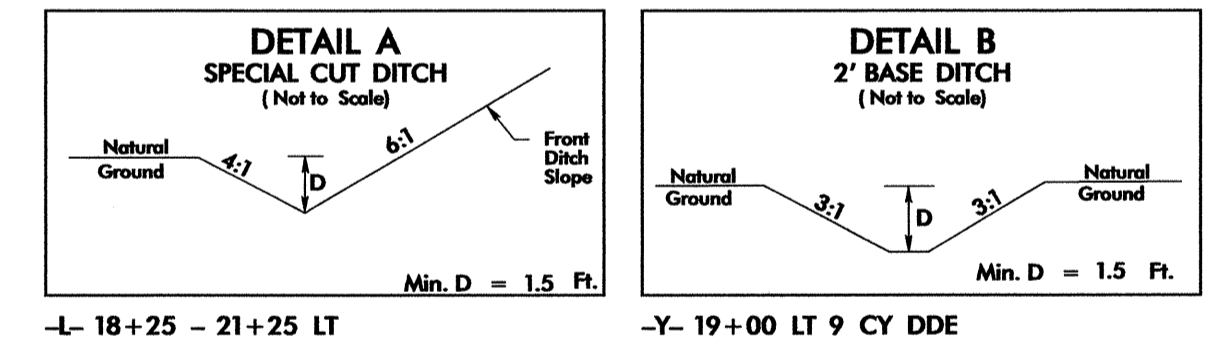
DATUM DESCRIPTION
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NC DOT FOR MONUMENT "R4434-2" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 7765787.1 (M) EASTING: 2419178603.0 (M) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99993150 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "R4434-2" TO -L- POT 17+59.17 IS S 32° 15' 19.6" W 70.35' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAD 88

PROJECT REFERENCE NO. R-4434 SHEET NO. 4
RW SHEET NO. 4
ROADWAY DESIGN ENGINEER
W. G. CLARK III
DB 1231 PG 972
PROFESSIONAL SEAL
16600
R.C. HARRIS
9-7-00

TS 26+67.09
SC 28+47.09



Pls Sta 27+87.12
Gs = 3' 36".00"
Ls = 180.00'
LT = 120.02'
ST = 60.02'
SE=0.06
RUNOFF 180'



W. G. CLARK III
DB 1231 PG 972

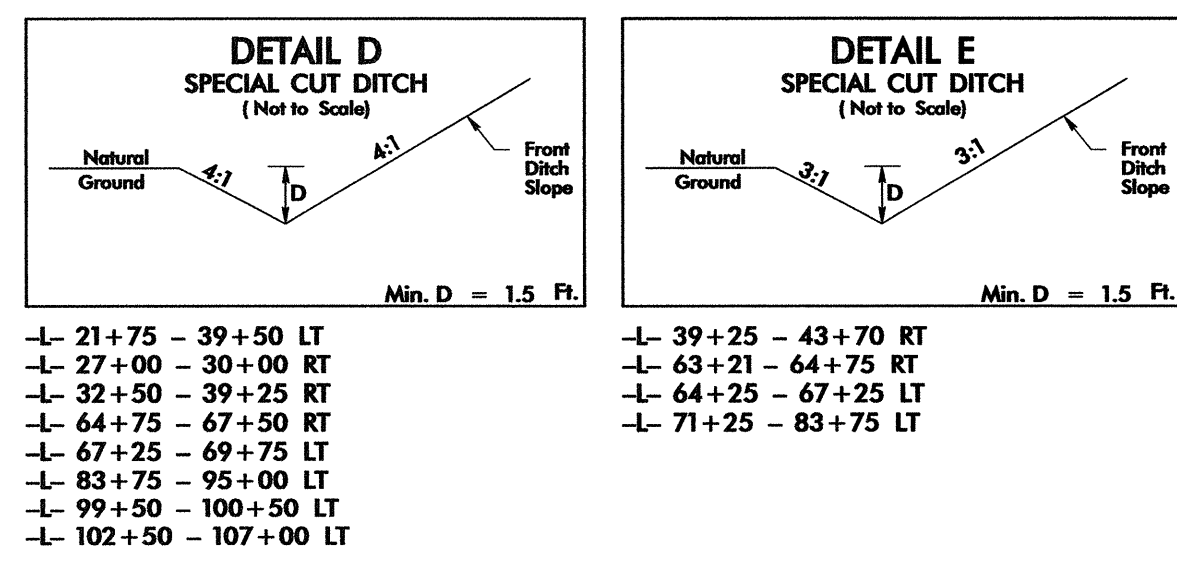
SEE SHEET 13 FOR PROFILE

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PROJECT: R-4434
SHEET: 4

8/17/09

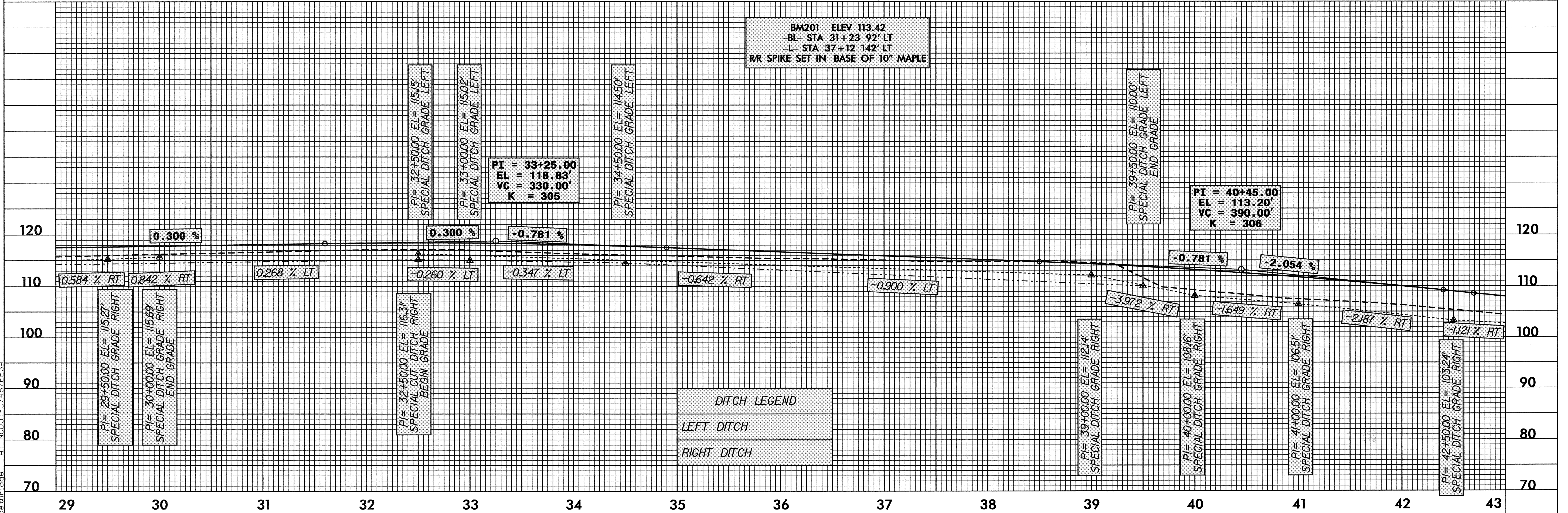
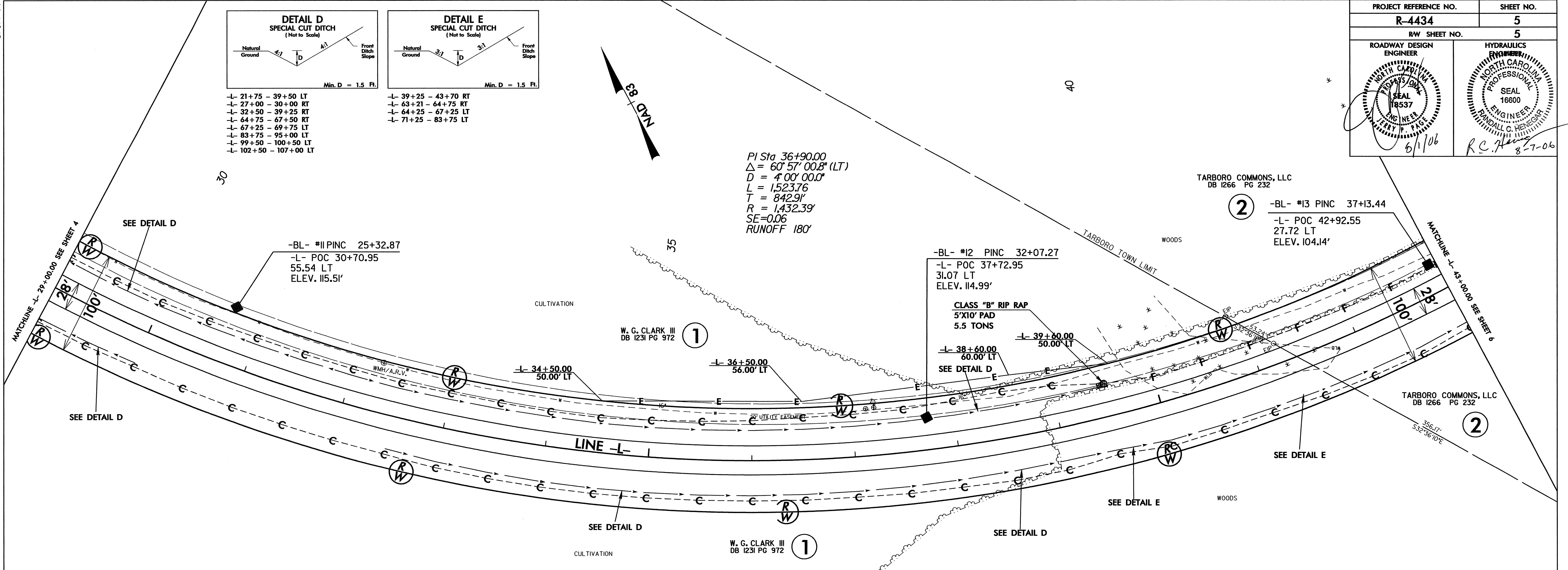
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d:\pdx\du\4434\4434.dwg

PROJECT REFERENCE NO. R-4434	SHEET NO. 5
RW SHEET NO. 5	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER



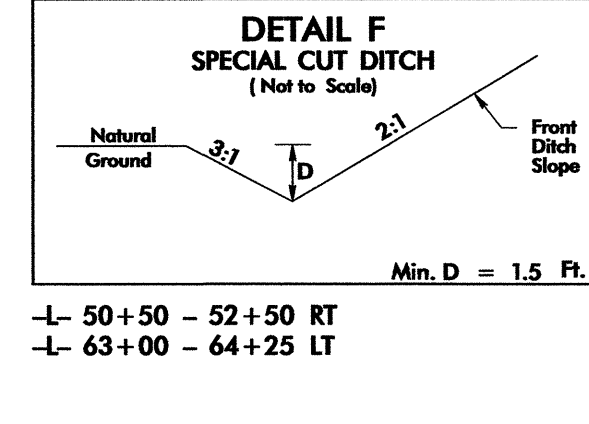
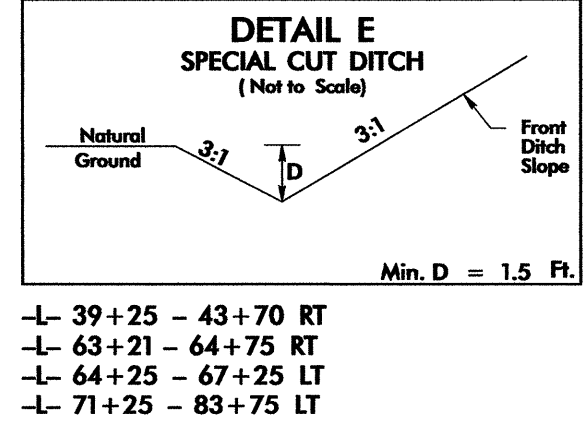
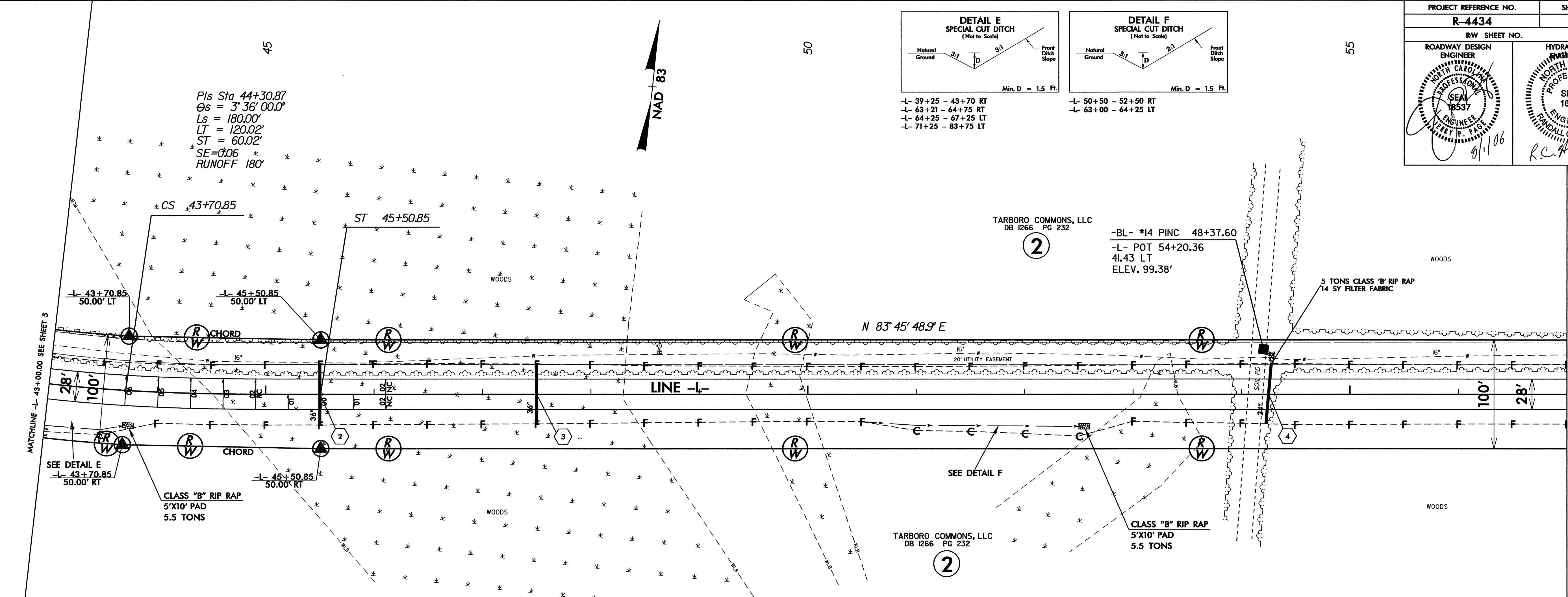
- L- 21+75 - 39+50 LT
 - L- 27+00 - 30+00 RT
 - L- 32+50 - 39+25 RT
 - L- 64+75 - 67+50 RT
 - L- 67+25 - 69+75 LT
 - L- 83+75 - 95+00 LT
 - L- 99+50 - 100+50 LT
 - L- 102+50 - 107+00 LT
- L- 39+25 - 43+70 RT
 - L- 63+21 - 64+75 RT
 - L- 64+25 - 67+25 LT
 - L- 71+25 - 83+75 LT

PI Sta 36+90.00
 $\Delta = 60^\circ 57' 00.8''$ (LT)
 $D = 4^\circ 00' 00.0''$
 $L = 1,523.76$
 $T = 842.91'$
 $R = 1,432.39'$
 $SE = 0.06$
 $RUNOFF = 180'$

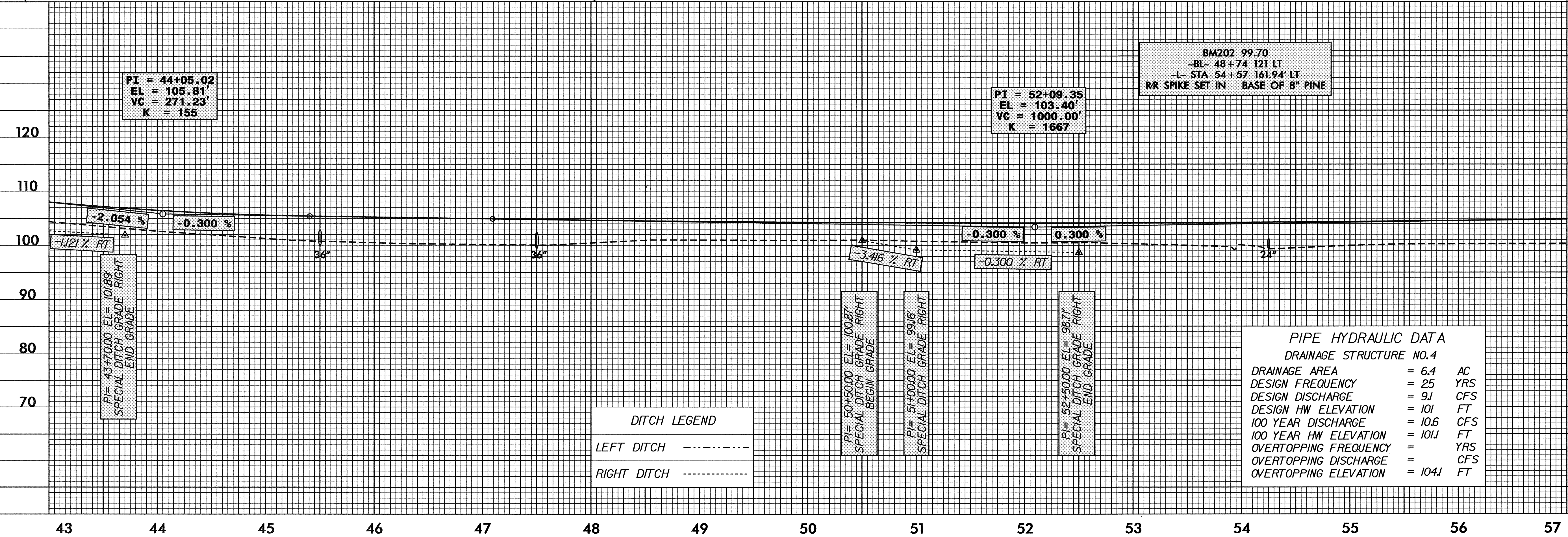


8/17/09

01-AUG-2006 10:14
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deh5page

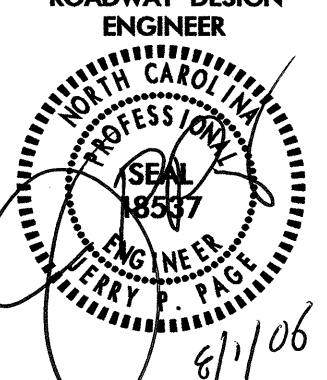
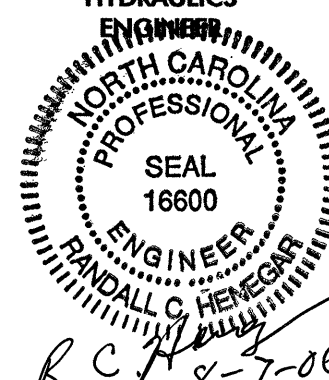


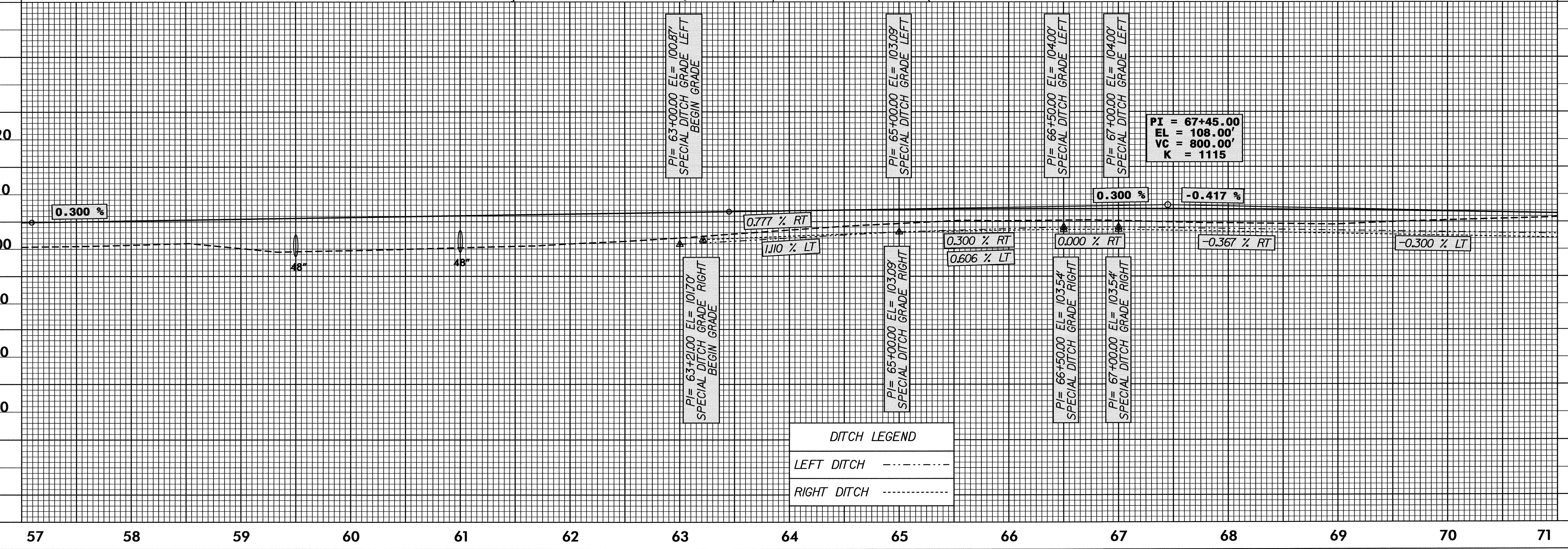
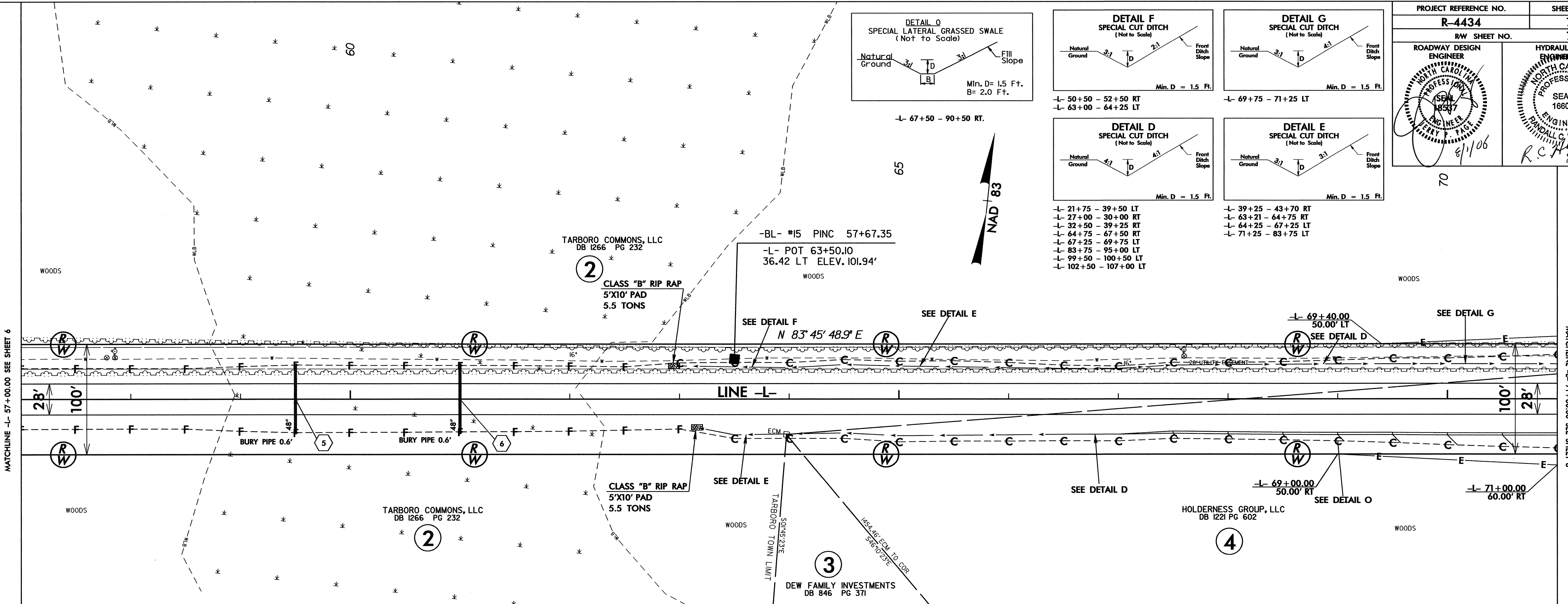
PROJECT REFERENCE NO. R-4434	SHEET NO. 6
RW SHEET NO. 6	
ROADWAY DESIGN ENGINEER SEAL 18537 LEWIS P. TIGHE	HYDRAULICS ENGINEER SEAL 16600 RANDALL C. HENEGAR



8/17/09

01-AUG-2006 10:43
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deshriggs

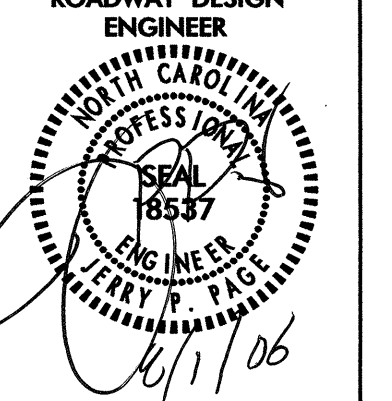
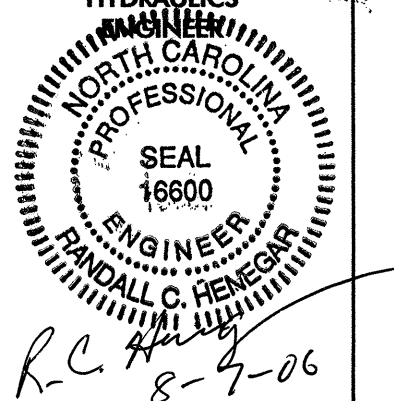
PROJECT REFERENCE NO. R-4434	SHEET NO. 7
RW SHEET NO. 7	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
8/1/06	

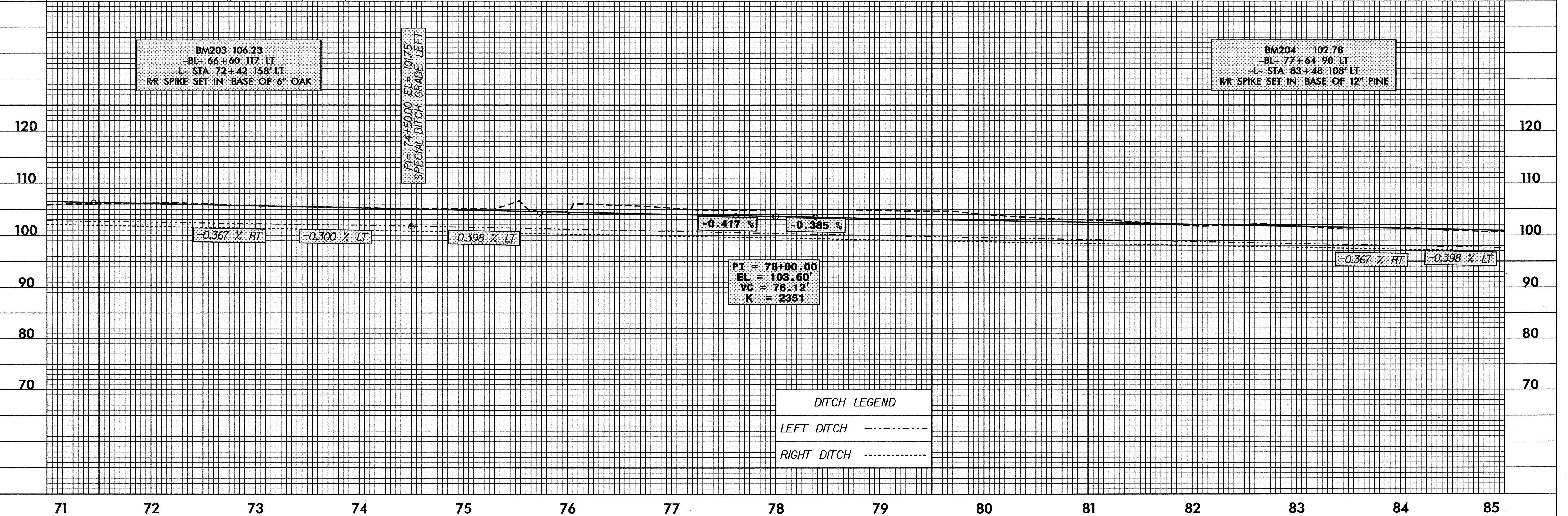
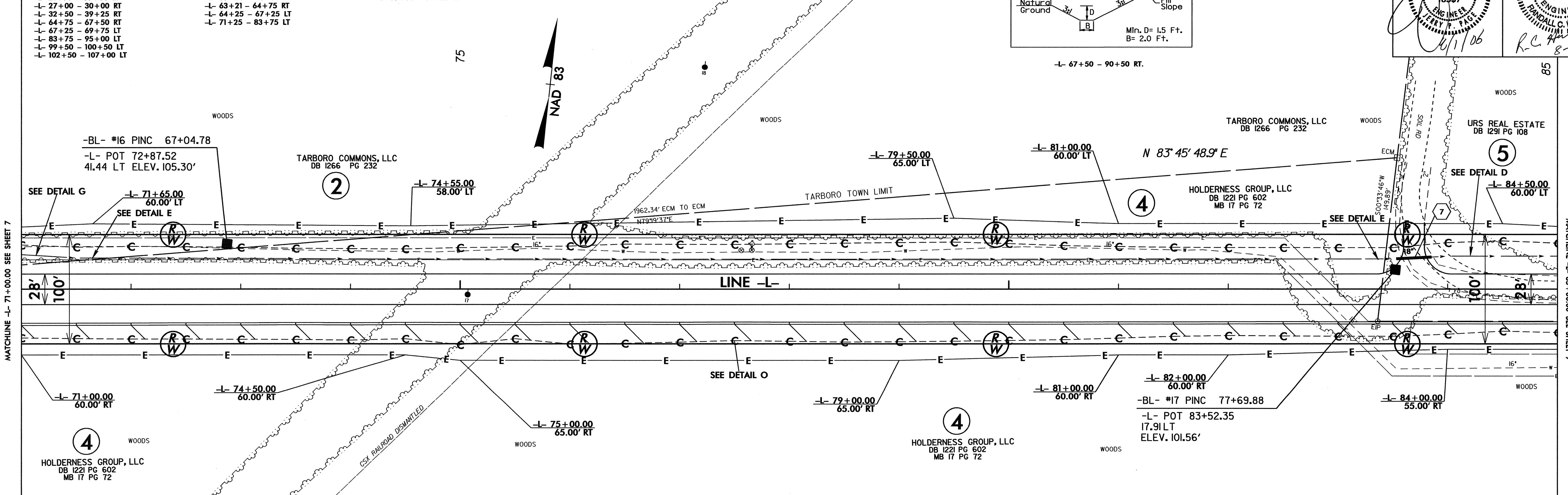
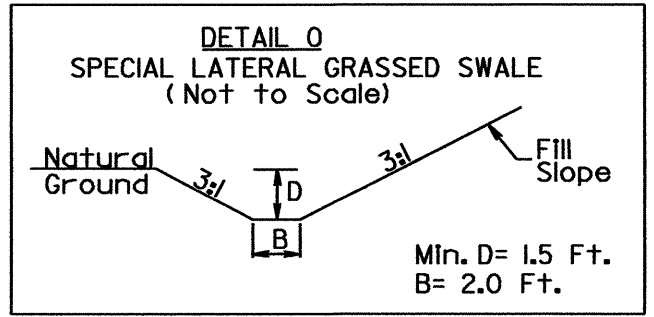
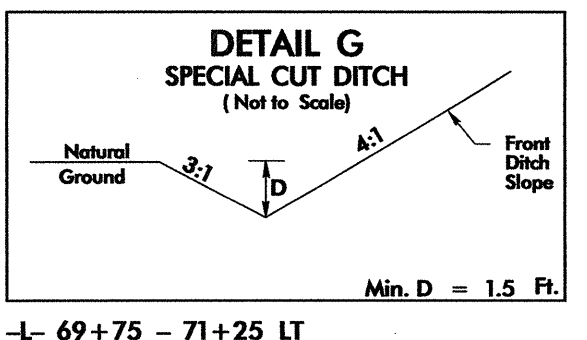
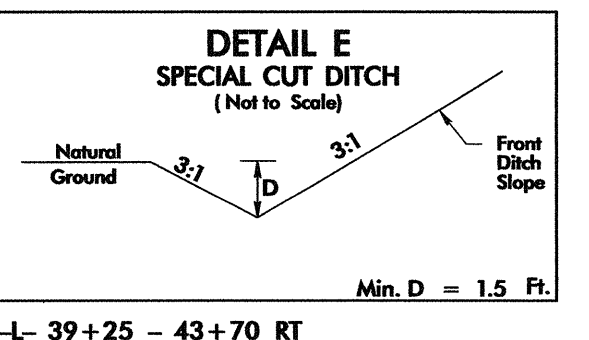
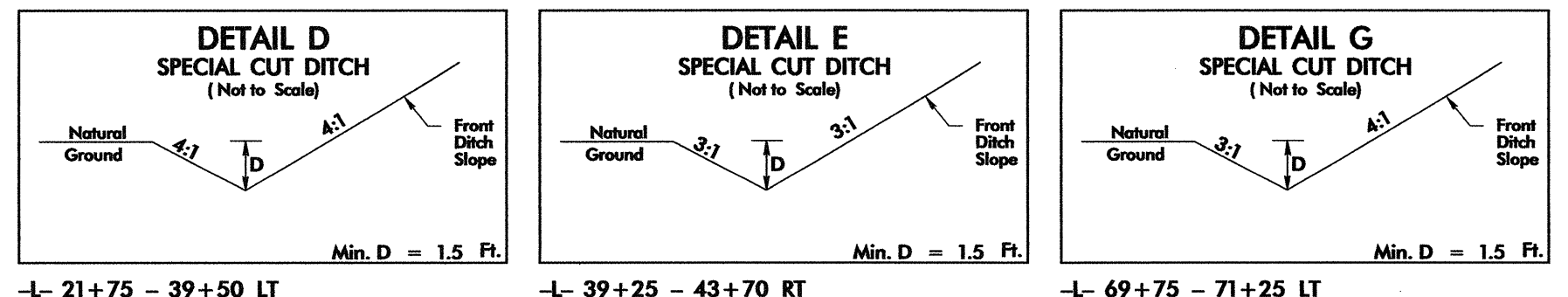


DITCH LEGEND

LEFT DITCH	-----
RIGHT DITCH	-----

8/17/09
01-AUG-2006 10:10
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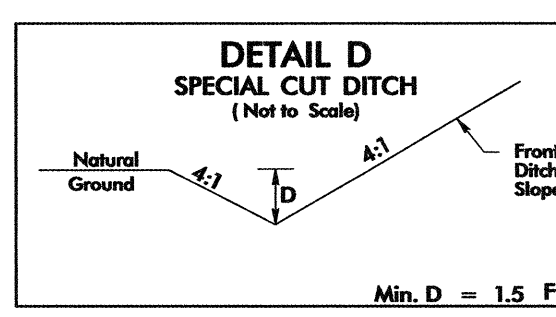
PROJECT REFERENCE NO. R-4434	SHEET NO. 8
RW SHEET NO. 8	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 



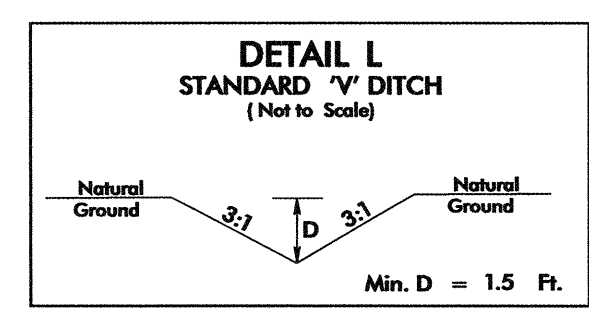
DITCH LEGEND	
LEFT DITCH	-----
RIGHT DITCH	-----

8/17/99

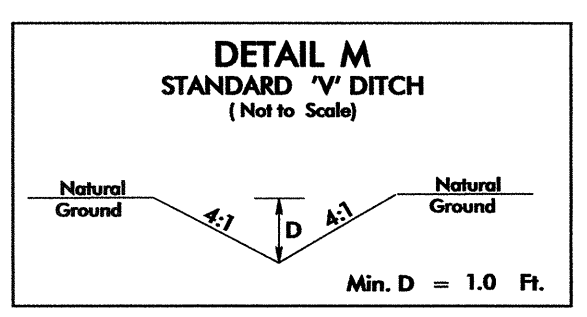
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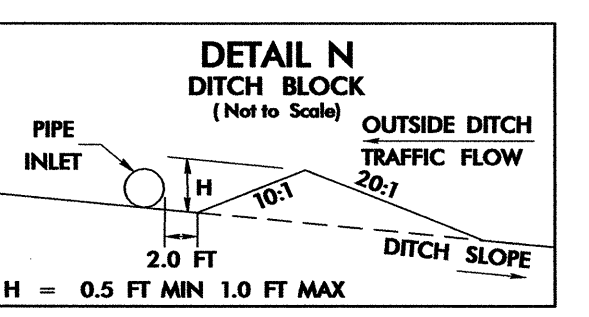
DETAIL D
 SPECIAL CUT DITCH
 (Not to Scale)
 Min. D = 1.5 Ft.
 -L- 21+75 - 39+50 LT
 -L- 27+00 - 30+00 RT
 -L- 32+50 - 39+25 RT
 -L- 64+75 - 67+50 RT
 -L- 67+25 - 69+75 LT
 -L- 83+75 - 95+00 LT
 -L- 99+50 - 100+50 LT
 -L- 102+50 - 107+00 LT



DETAIL L
 STANDARD 'V' DITCH
 (Not to Scale)
 Min. D = 1.5 Ft.
 -L- 99+50 LT 6 CY DDE

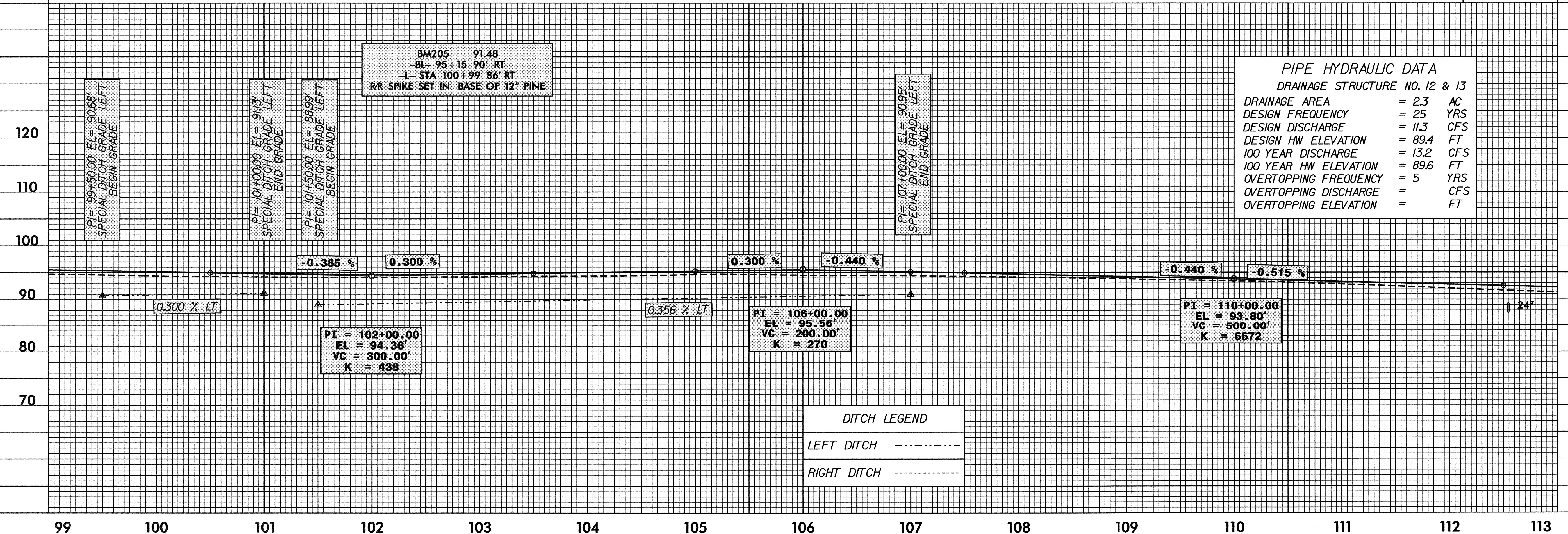
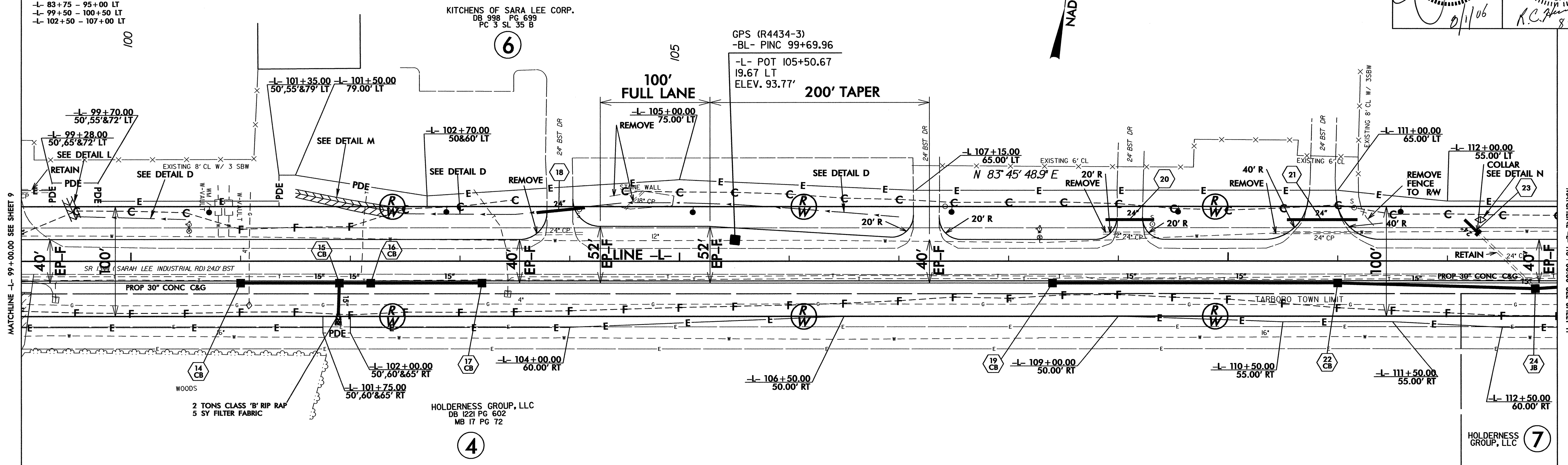


DETAIL M
 STANDARD 'V' DITCH
 (Not to Scale)
 Min. D = 1.0 Ft.
 -L- 101+50 - 102+50 LT 18CY DDE

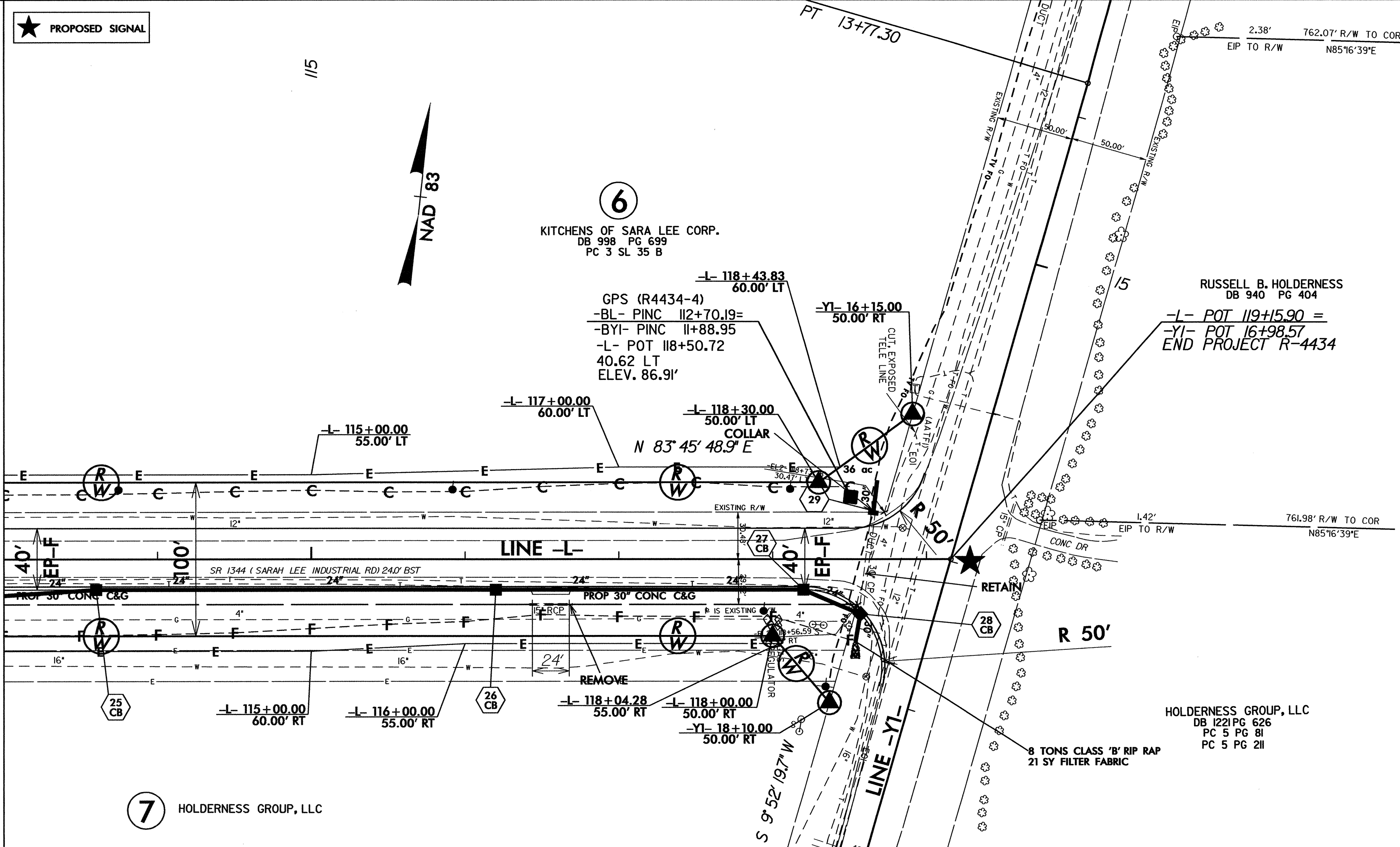


DETAIL N
 DITCH BLOCK
 (Not to Scale)
 H = 0.5 FT MIN 1.0 FT MAX
 -L- 112+25 LT

PROJECT REFERENCE NO. R-4434	SHEET NO. 10
R/W SHEET NO. 10	
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>
PROFESSIONAL SEAL 15537	PROFESSIONAL SEAL 16600
DATE: 8/1/06	DATE: 8-2-06



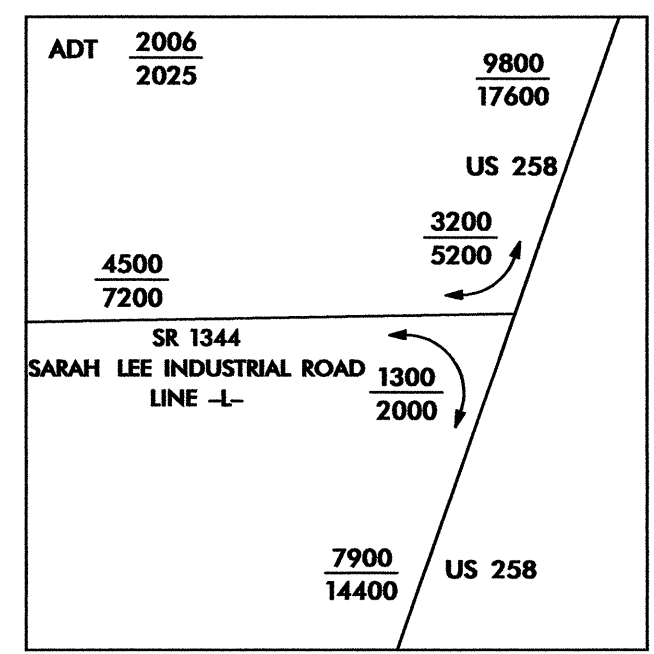
8/17/09



PI Sta 12+65.48
 $\Delta = 2' 15" 51.6" (RT)$
 $D = 1' 00" 44.7"$
 $L = 223.66'$
 $T = 111.84'$
 $R = 5,659.30'$

PROJECT REFERENCE NO. R-4434	SHEET NO. 11
RW SHEET NO. 11	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER

MATCHLINE -L- 113+00.00 SEE SHEET 10

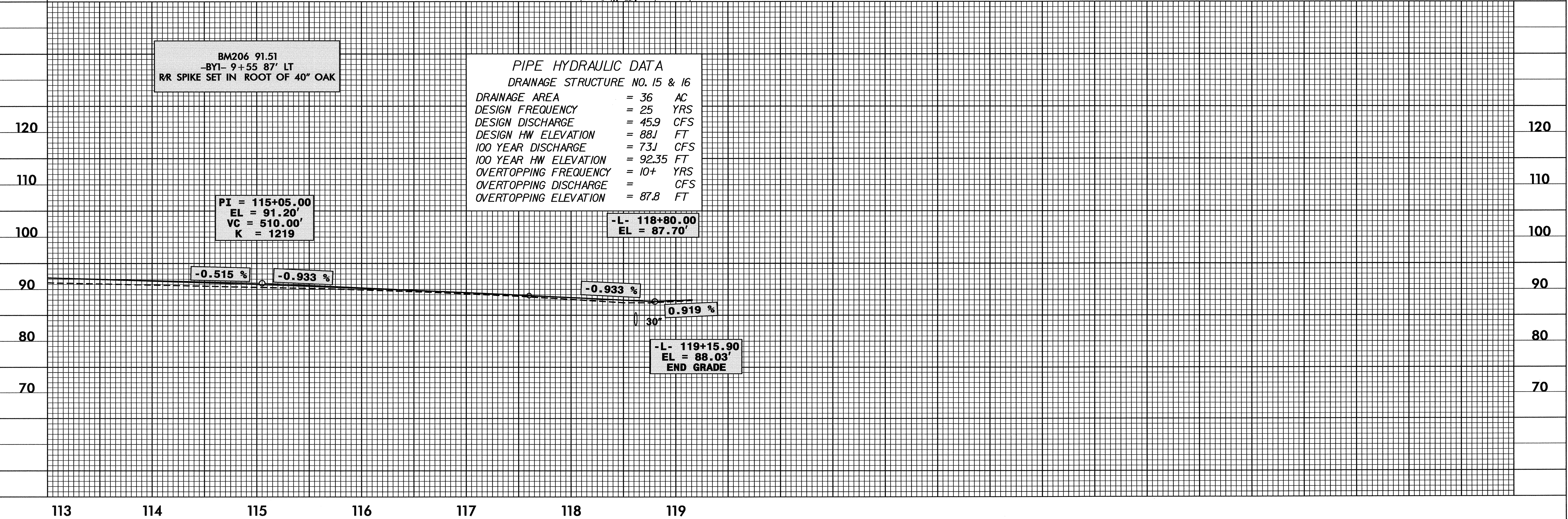


7 HOLDERNESS GROUP, LLC

BM206 91.51
 -BY1- 9+55 87' LT
 RR SPIKE SET IN ROOT OF 40" OAK

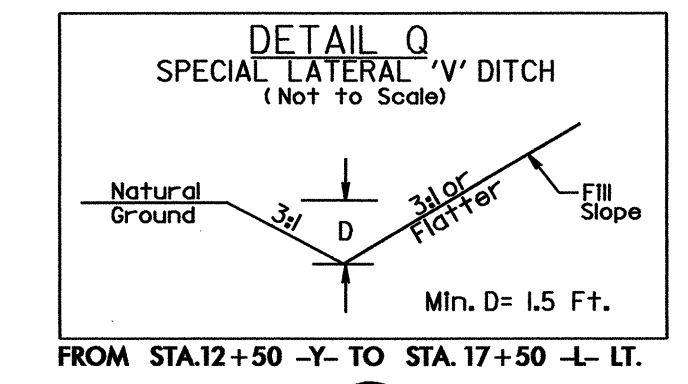
PIPE HYDRAULIC DATA
 DRAINAGE STRUCTURE NO. 15 & 16

DRAINAGE AREA	= 36 AC
DESIGN FREQUENCY	= 25 YRS
DESIGN DISCHARGE	= 45.9 CFS
DESIGN HW ELEVATION	= 88.1 FT
100 YEAR DISCHARGE	= 73.1 CFS
100 YEAR HW ELEVATION	= 92.35 FT
OVERTOPPING FREQUENCY	= 10+ YRS
OVERTOPPING DISCHARGE	= CFS
OVERTOPPING ELEVATION	= 87.8 FT



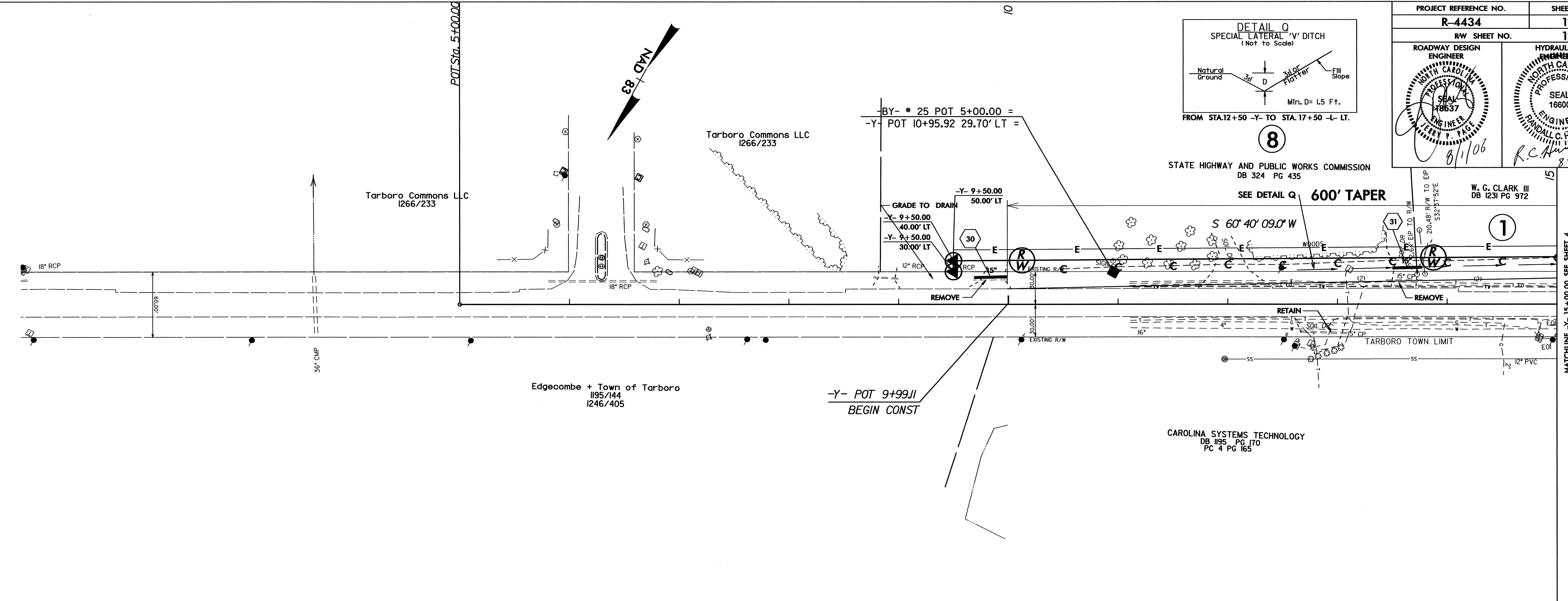
01-AUG-2006 10:06
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PROJECT REFERENCE NO. R-4434	SHEET NO. 12
RW SHEET NO. 12	
ROADWAY DESIGN ENGINEER Professional Engineer Seal SEAL 168637 JERRY P. FIG	HYDRAULICS ENGINEER Professional Engineer Seal SEAL 16800 RANDALL C. HENEGAR

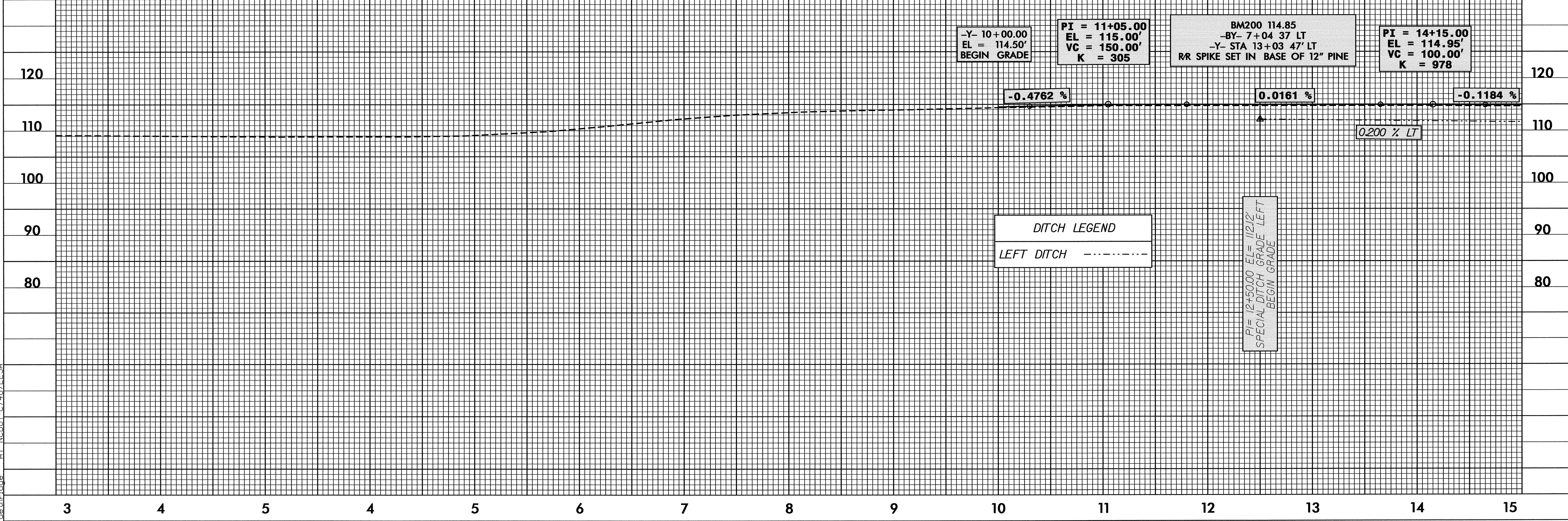


(8)
STATE HIGHWAY AND PUBLIC WORKS COMMISSION
DB 324 PG 435

W. G. CLARK III
DB 1231 PG 972
(1)



MATCHLINE -Y- 15+00.00 SEE SHEET 4

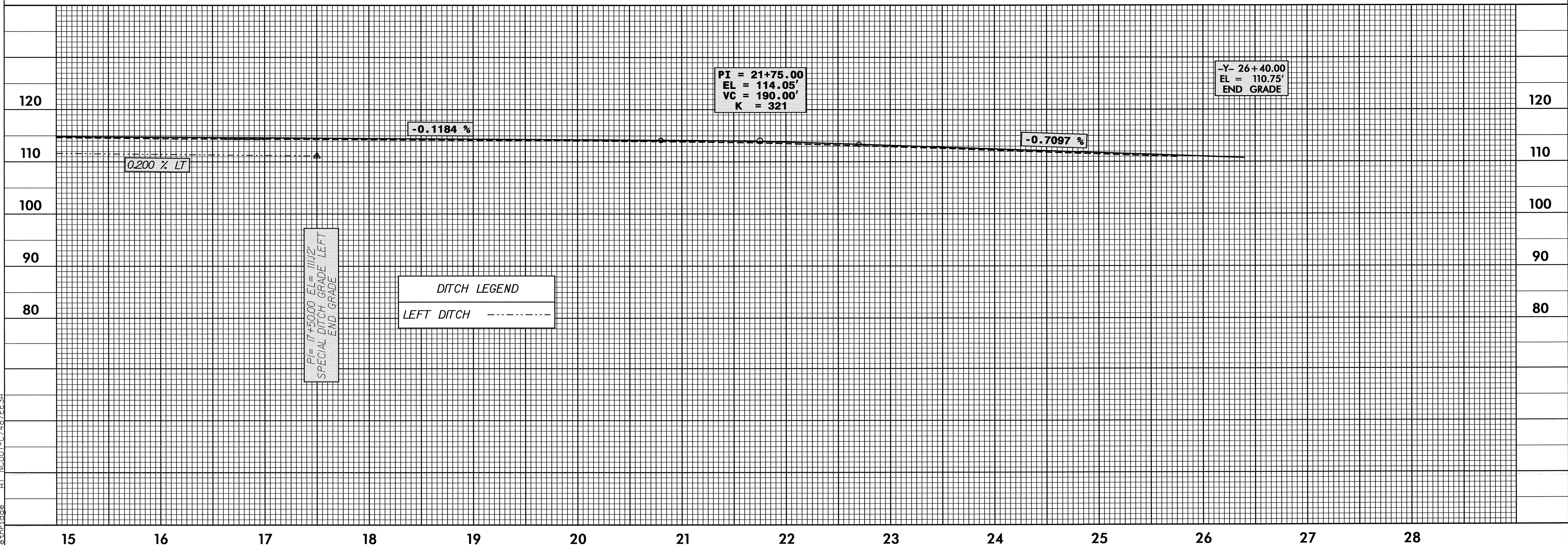
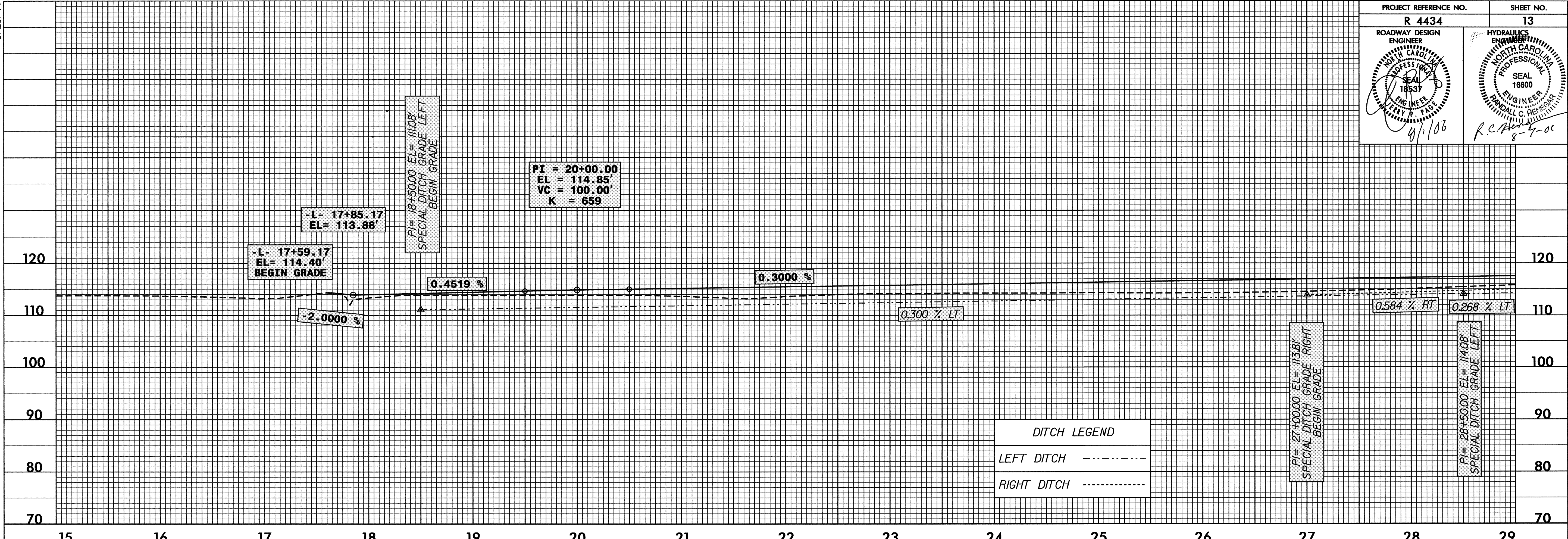


DITCH LEGEND
LEFT DITCH - - - - -

PI = 12+50.00 EL = 112.12'
SPECIAL DITCH GRADE LEFT
BEGIN GRADE

5/28/99

PROJECT REFERENCE NO. R 4434	SHEET NO. 13
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



01-AUG-2006 10:02
d:\p01\cdu\p\99\4434\4434.dwg
at 13.000000
d:\p01\cdu\p\99\4434\4434.dwg