

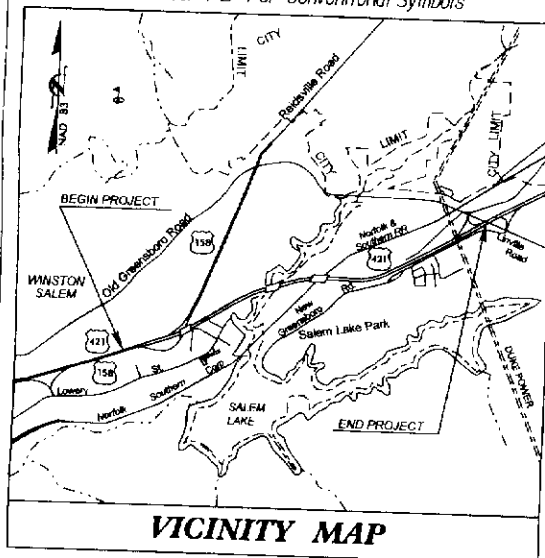
Meredith Britt NC Dept Transp. Right of Way 1546 Mail Service Ctr. Raleigh NC 27699

680

R-0952A

PROJECT: 8.1621204

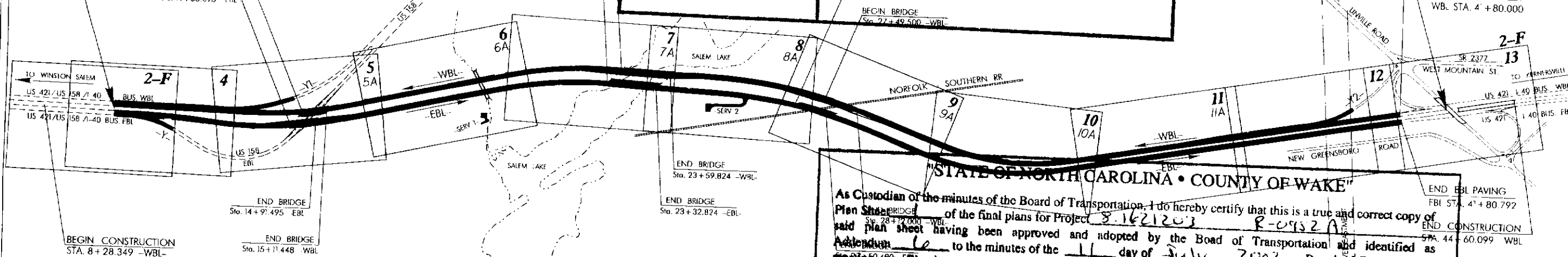
See Sheet 1-A For Index of Sheets  
See Sheet 1-B For Conventional Symbols



BEGIN STATE PROJECT No. 8.1621204  
BEGIN F.A. PROJECT No. STPNHS-421(21)  
-WBL- POT Sta. 9+20.000  
-EBL- POT Sta. 9+20.030

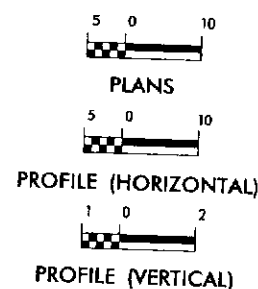
BEGIN BRIDGE  
Sta. 14+60.348 -WBL

BEGIN BRIDGE  
Sta. 14+38.095 -EBL



THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS BEING LIMITED TO INTERCHANGES

#### GRAPHIC SCALE



#### DESIGN DATA

ADT 2002 = 56,100 vpd  
ADT 2025 = 32,000 vpd  
DHV = 10 %  
D = 60 %  
T = 6 %  
V = 100 km/h  
\* TTST 4 % DUAL 2 %

#### PROJECT LENGTH

LENGTH ROADWAY F.A. PROJECT No. STPNHS-421(21) = 3.135 km  
LENGTH STRUCTURES F.A. PROJECT No. STPNHS-421(21) = 0.246 km  
TOTAL LENGTH STATE PROJECT No. 8.1621204 = 3.381 km

NOTE: -EBL- USED TO DETERMINE PROJECT LENGTH

Prepared in the Office of:  
**DIVISION OF HIGHWAYS**  
1000 Birch Ridge Dr., Raleigh, NC 27610

2002 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
OCTOBER 27, 2000

LETTING DATE:  
JUNE 18, 2002

JAMES A. SPEER, PE  
PROJECT ENGINEER

JOHN C. LANSFORD, PE  
PROJECT DESIGN ENGINEER

#### HYDRAULICS ENGINEER



ROADWAY DESIGN  
ENGINEER



#### DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

D.M. Barbour, P.E.  
STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED  
DIVISION ADMINISTRATOR

DATE



ALL DIMENSIONS IN THESE  
PLANS ARE IN METERS  
UNLESS OTHERWISE SHOWN

| STATE           | STATE PROJECT REFERENCE NO. | SHEET NO.        | TOTAL SHEETS |
|-----------------|-----------------------------|------------------|--------------|
| N.C.            | R-0952A                     | 1                |              |
| STATE PROJ. NO. | F.A. PROJ. NO.              | DESCRIPTION      |              |
| 8.1621202       | STP-86-2 (34)               | P.E.             |              |
| 8.1621203       | STPNHS-421 (21)             | R / W, UTILITIES |              |
| 8.1621204       | STPNHS-421 (21)             | CONSTRUCTION     |              |
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FORSYTH CO., NC FEE \$ 14.00  
PRESENTED & RECORDED: 07/22/2002 1:07PM  
DICKIE C. WOOD REGISTER OF DEEDS BY-POINTE  
BK 1 P 680 - P 692

20

NAD 83

|                  |                      |                                                    |
|------------------|----------------------|----------------------------------------------------|
| PROJECT          | 8.1621203            | END STATE PROJECT No. 8.1621204                    |
| PRIMARY ROAD     | US 421 I-40 Business | END F.A. PROJECT No. STPNHS-421(21)                |
| CONNECTING ROADS | US 158 SR-2662       | WBL- POT Sta. 43+00.000<br>EBL- POT Sta. 43+00.792 |

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of the final plans for Project 8.1621203 R-0952A. The said plan sheet having been approved and adopted by the Board of Transportation and identified as such on the minutes of the 11 day of July, 2002, Board of Transportation meeting held in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.

Secretary to Board of Transportation



682

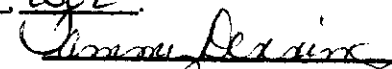
|                       |           |
|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| R-0952A               | 3-K       |

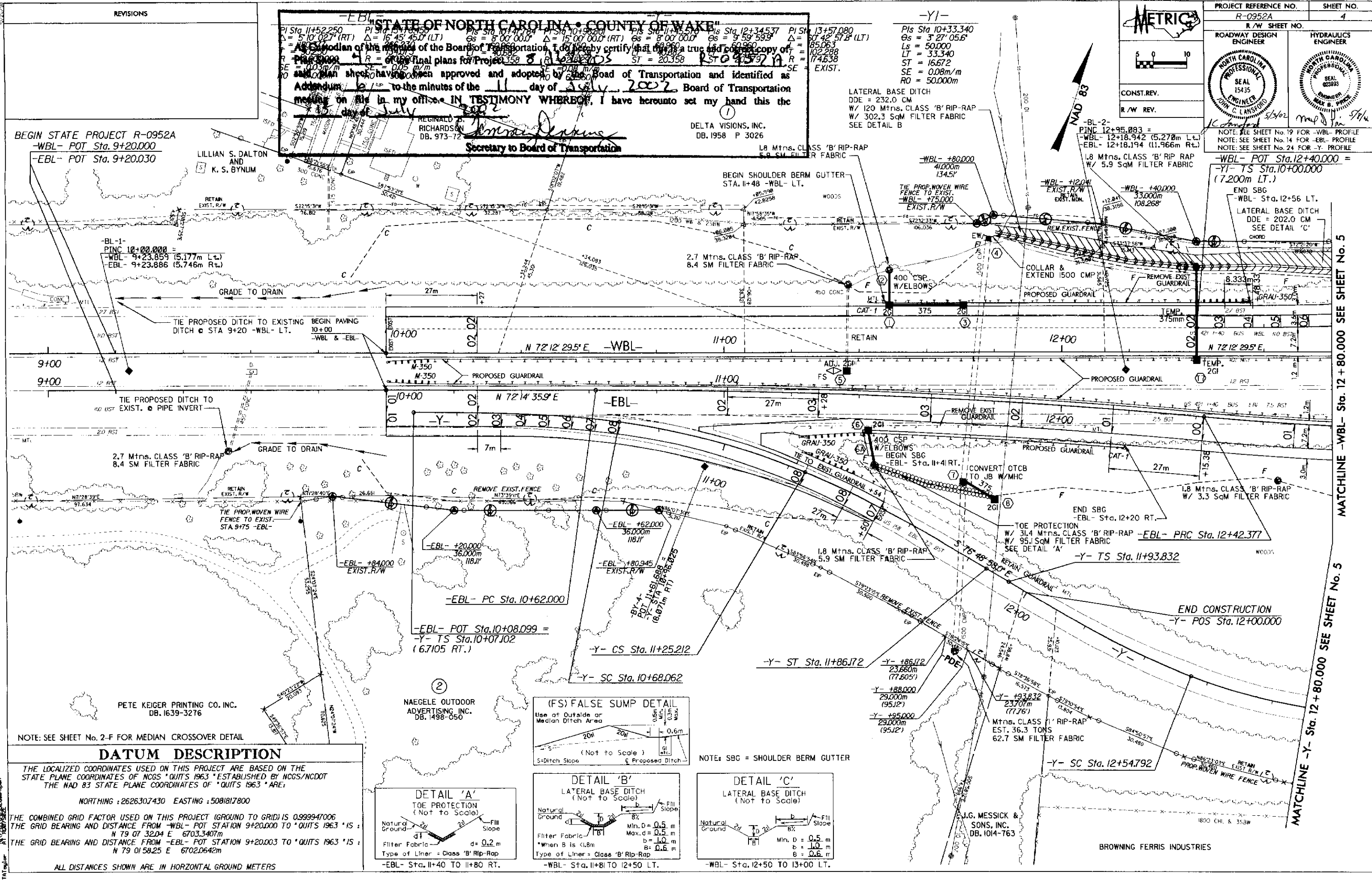
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**PARCEL INDEX SHEET**

| PARCEL No. | SHEET No. | PROPERTY OWNER NAME               |
|------------|-----------|-----------------------------------|
| 1          | 4, 5      | DELTA VISIONS, INC.               |
| 2          | 4         | NAEGELE OUTDOOR ADVERTISING, INC. |
| 3          | 6         | ROBERT L. FOX A/W RUTH G. FOX     |
| 4          | 6, 7      | GLEN O. JACKSON, ET AL (AMP INC.) |
| 5          | 6, 7, 8   | CITY OF WINSTON SALEM             |
| 6          | 7, 8, 9   | CITY OF WINSTON SALEM             |
| 8          | 8, 9      | WAYNE J. BRANCH                   |
| 9          | 9         | W. AVALON POTTS                   |
| 9A         | 10        | CITY OF WINSTON SALEM             |
| 10         | 9, 10     | PEPSI BOTTLING VENTURES, LLC      |
| 11         | 11        | PEPSI BOTTLING VENTURES, LLC      |
|            |           |                                   |

"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 3-K of the final plans for Project 8.1621203 R-0952A said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 6 to the minutes of the 11 day of July, 2002. Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.

  
Secretary to Board of Transportation



REVISIONS

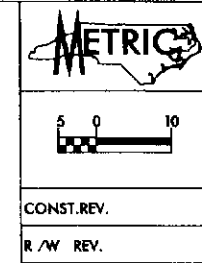
STATE OF NORTH CAROLINA • COUNTY OF WAKE

I, Richardson, Secretary to Board of Transportation, do hereby certify that this is a true and correct copy of the final plans for Project R-0952A, as approved and adopted by the Board of Transportation meeting on the 11 day of July, 2002, in my office.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 11 day of July, 2002.

REGINALD P. RICHARDSON  
DB. 973-72

DELTA VISIONS, INC.  
DB. 1958 P 3026



PROJECT REFERENCE NO. R-0952A  
SHEET NO. 4

R/W SHEET NO.

ROADWAY DESIGN ENGINEER  
NORTH CAROLINA PROFESSIONAL SEAL 15435  
JOHN C. LANFORD

HYDRAULICS ENGINEER  
NORTH CAROLINA PROFESSIONAL SEAL 02583  
MARK B. PHILLIPS

NOTE: SEE SHEET No. 19 FOR -WBL- PROFILE  
NOTE: SEE SHEET No. 14 FOR -EBL- PROFILE  
NOTE: SEE SHEET No. 24 FOR -Y- PROFILE

BEGIN STATE PROJECT R-0952A  
-WBL- POT Sta. 9+20.000  
-EBL- POT Sta. 9+20.030

-BL-1-  
PINC 10+00.000 =  
-WBL- 9+23.859 (5.177m Lt.)  
-EBL- 9+23.886 (5.748m Rt.)

TIE PROPOSED DITCH TO  
EXIST. PIPE INVERT

PETE KEIGER PRINTING CO. INC.  
DB. 1639-3276

NOTE: SEE SHEET No. 2-F FOR MEDIAN CROSSOVER DETAIL

**DATUM DESCRIPTION**

THE LOCALIZED COORDINATES USED ON THIS PROJECT ARE BASED ON THE STATE PLANE COORDINATES OF NCSS \*QUITS 1963 \*ESTABLISHED BY NCSS/NGDOT THE NAD 83 STATE PLANE COORDINATES OF \*QUITS 1963 \*ARE:

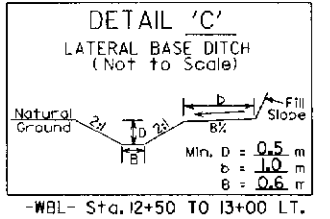
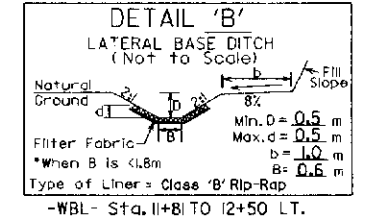
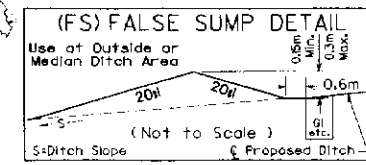
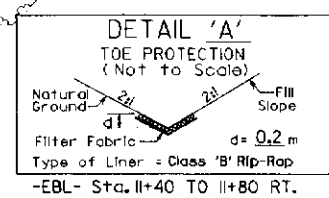
NORTHING : 2626307430 EASTING : 5081817800

THE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS 0.999947006

THE GRID BEARING AND DISTANCE FROM -WBL- POT STATION 9+20.000 TO \*QUITS 1963 \*IS :  
N 79 07 32.04 E 6703.3407m

THE GRID BEARING AND DISTANCE FROM -EBL- POT STATION 9+20.003 TO \*QUITS 1963 \*IS :  
N 79 01 58.25 E 6702.0642m

ALL DISTANCES SHOWN ARE IN HORIZONTAL GROUND METERS



NOTE: SBC = SHOULDER BERM GUTTER

J.G. MESSICK &  
SONS, INC.  
DB. 1014-763

BROWNING FERRIS INDUSTRIES

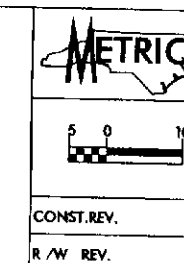
MATCHLINE -WBL- Sta. 12 + 80.000 SEE SHEET No. 5

MATCHLINE -Y- Sta. 12 + 80.000 SEE SHEET No. 5

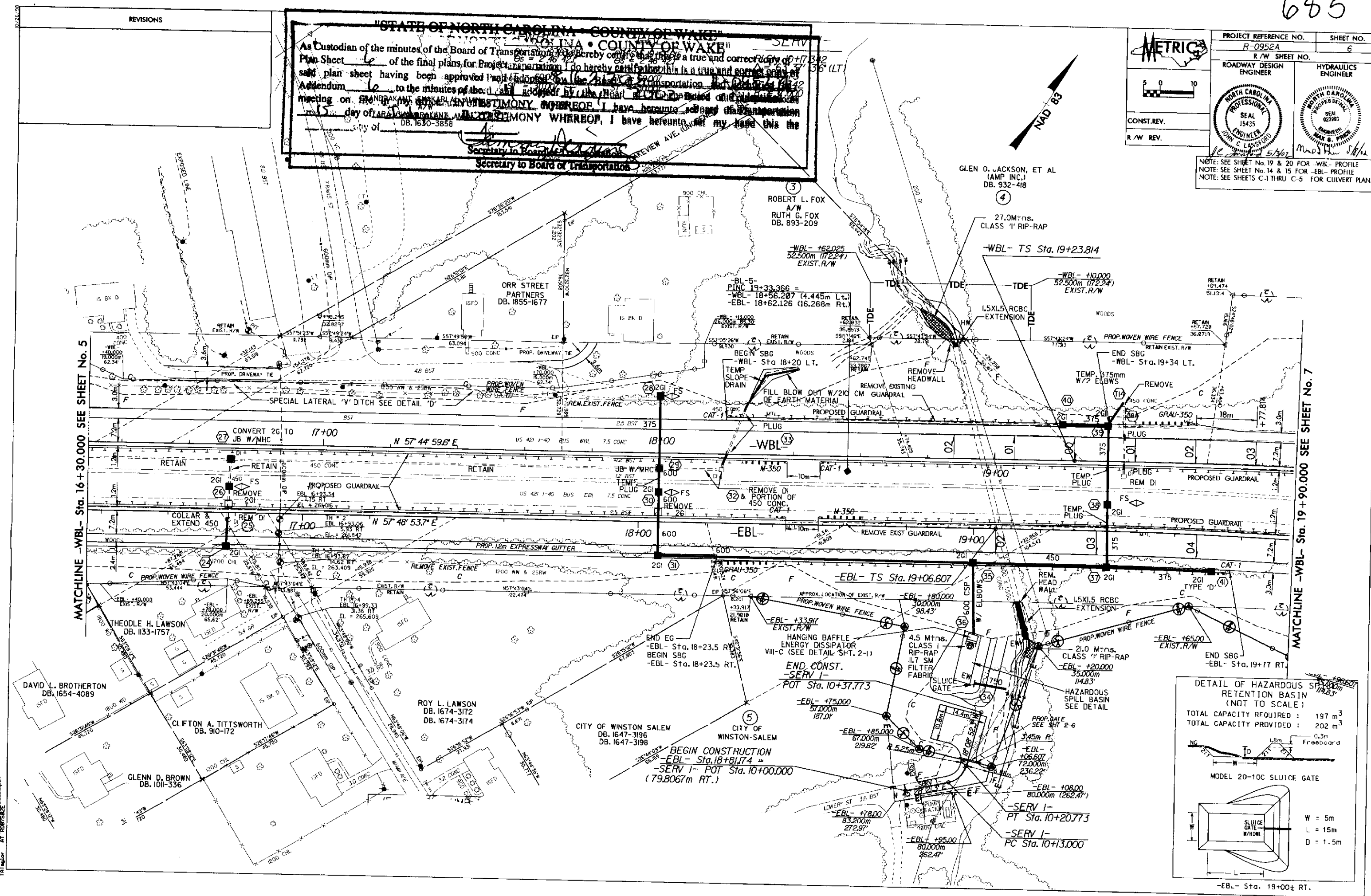




"STATE OF NORTH CAROLINA - COUNTY OF WAKE"  
As Custodian of the minutes of the Board of Transportation, I hereby certify that this is a true and correct copy of  
Plan Sheet 6 of the final plans for Project Interchange. I do hereby certify that this is a true and correct copy of  
said plan sheet having been approved and adopted by the Board of Transportation at its meeting on the 15  
Addendum 6 to the minutes of the Board of Transportation held at its meeting on the 15  
day of MAY, my office in TESTIMONY WHEREOF, I have hereunto set my hand this the  
15 day of MAY, A.D. 1980.  
City of RANDOLPH, N.C.  
DB. 1630-3858  
Secretary to Board of Transportation  
Secretary to Board of Transportation  
INTERVIEW AVE., CONCORD, N.C.



|                                                                                                                                                |  |                                                                                     |  |
|------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------|--|
| PROJECT REFERENCE NO.                                                                                                                          |  | SHEET NO.                                                                           |  |
| R-0952A                                                                                                                                        |  | 6                                                                                   |  |
| R/W SHEET NO.                                                                                                                                  |  |                                                                                     |  |
| ROADWAY DESIGN<br>ENGINEER                                                                                                                     |  | HYDRAULICS<br>ENGINEER                                                              |  |
|                                                             |  |  |  |
| <i>1C SEE SHEET 5/6/12</i>                                                                                                                     |  | <i>MADE 5/6/12</i>                                                                  |  |
| NOTE: SEE SHEET NO. 19 & 20 FOR -WB/- PROFILE<br>NOTE: SEE SHEET NO. 14 & 15 FOR -EB/- PROFILE<br>NOTE: SEE SHEETS C-THRU C-5 FOR CULVERT PLAN |  |                                                                                     |  |



686

REVISIONS

-WBL-  
Pls Sta. 19+83.82  
Gs = 2' 46" 42"  
Ls = 90.000  
LT = 60.007  
ST = 30.007  
Pls Sta. 20+95.003  
Gs = 10' 00" 00" (RT)  
Ls = 161.961  
R = 928.000  
SE = 0.05 m/m  
RO = SEE PLANS  
Pls Sta. 22+105.37  
Gs = 2' 46" 42"  
Ls = 90.000  
LT = 60.007  
ST = 30.007

-EBL-  
Pls Sta. 19+66.615  
Gs = 2' 46" 42"  
Ls = 90.000  
LT = 60.007  
ST = 30.007  
Pls Sta. 20+79.837  
Gs = 10' 15" 00" (RT)  
Ls = 166.016  
R = 928.000  
SE = 0.05 m/m  
RO = SEE PLANS  
Pls Sta. 21+92.670  
Gs = 2' 46" 42"  
Ls = 90.000  
LT = 60.007  
ST = 30.007

-BL-6-  
PINC 22+23.964 =  
-WBL- 21+48.115 (3.474m L.T.)  
-EBL- 21+49.154 (21.884m R.T.)

"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of the said plan sheet having been approved and adopted by the Board of Transportation and identified as such by meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July 2002.

GLEN O. JACKSON, ET AL  
(AMP INC.)  
DR. 932-418

Secretary to Board of Transportation

DETAIL FOR  
FUTURE GREENWAY



CONST. REV.

R/W REV.

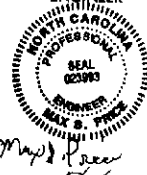
PROJECT REFERENCE NO. R-0952A SHEET NO. 7

R/W SHEET NO.

ROADWAY DESIGN ENGINEER



HYDRAULICS ENGINEER



NOTE: SEE SHEET No. 20 & 27 FOR -WBL- PROFILE  
NOTE: SEE SHEET No. 15 & 16 FOR -EBL- PROFILE

NOTE: FOR STRUCTURE PLANS:  
SEE SHEETS S-88 THRU S-149 FOR -EBL-  
SEE SHEETS S-150 THRU S-190 FOR -WBL-

CITY OF WINSTON SALEM

SALIM LAKE

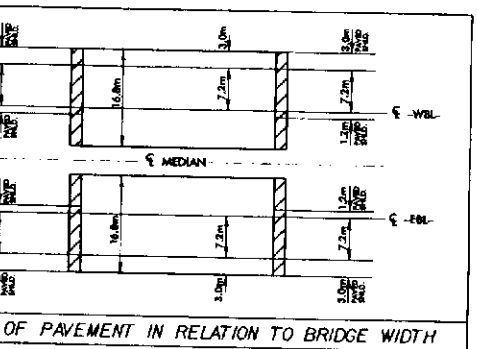
END BRIDGE  
-WBL- Sta. 23+59.824

23+00  
CONC. N 73°18' 23.8" E

23+00  
CONC. N 73°37' 17.8" E

END BRIDGE  
-EBL- Sta. 23+32.824

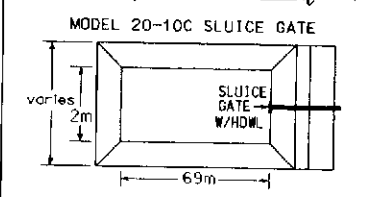
CITY OF WINSTON SALEM



SKETCH OF PAVEMENT IN RELATION TO BRIDGE WIDTH

DETAIL OF HAZARDOUS SPILL  
RETENTION BASIN  
(NOT TO SCALE)

TOTAL CAPACITY REQUIRED : 211 m<sup>3</sup>  
TOTAL CAPACITY PROVIDED : 224+ m<sup>3</sup>  
varies - 1.5m

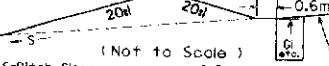


-WBL- Sta. 21+60 TO 22+17.7 MED.

NOTE: SBG = SHOULDER BERM GUTTER

(FS) FALSE SUMP DETAIL

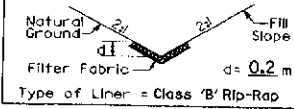
Use at Outside or Median Ditch Area



(Not to Scale)

DETAIL 'A'

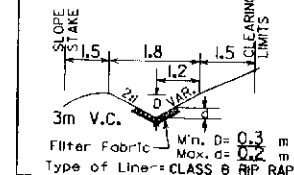
TOE PROTECTION  
(Not to Scale)



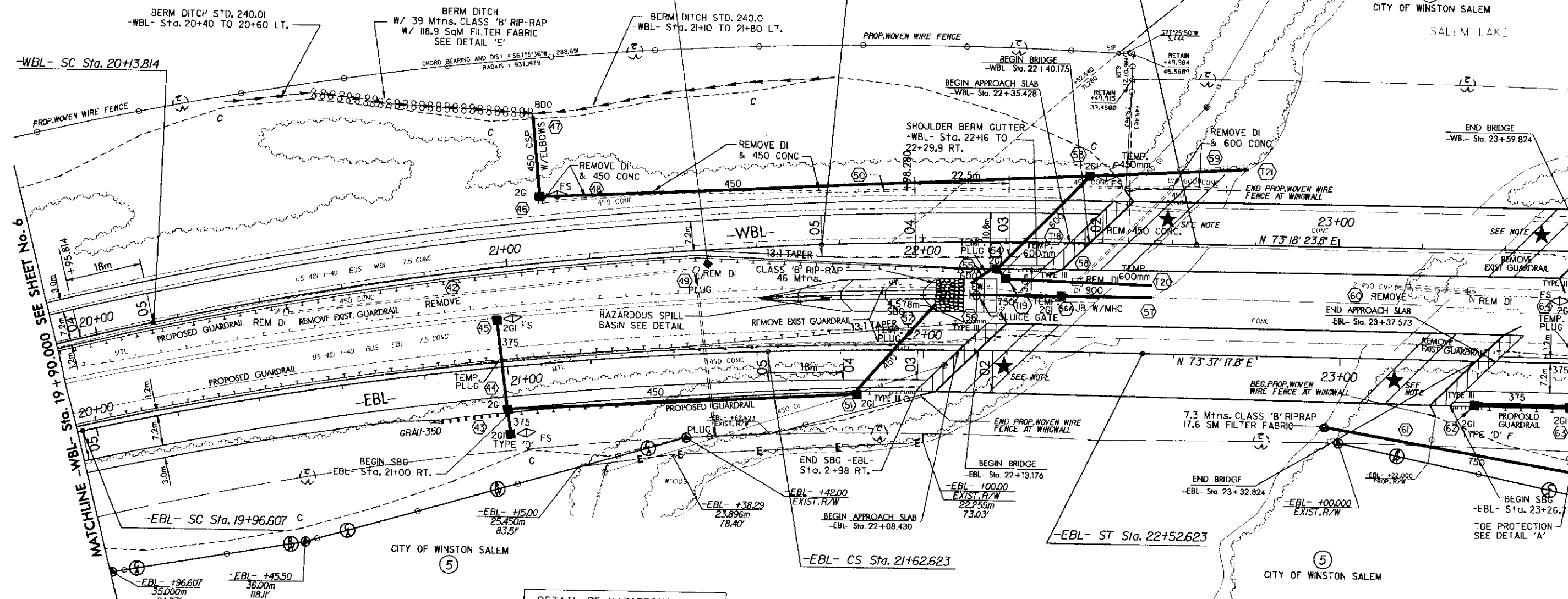
-EBL- Sta. 23+55 TO 24+00 RT.

DETAIL 'E'

BERM DITCH  
(Not to Scale)



-WBL- Sta. 20+60 TO 21+10 LT.



MATCHLINE -WBL- Sta. 19+90.000 SEE SHEET No. 6

MATCHLINE -WBL- Sta. 23+60.000 SEE SHEET No. 8







## REVISIONS

As Custodian of the State of North Carolina, I do hereby certify that this is a true and correct copy of the final plans for Project 21621203 R-0952 A having been approved and adopted by the Board of Transportation and identified as 6 to the minutes of the 11 day of July, 2002, Board of Transportation at my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.

*Theresa Devine*  
Secretary to Board of Transportation

Pls Sta 30+58.797 P1 Sta 32+06.266  
Δ = 223.097  
L = 90.000  
LT = 60.018  
R = 592.000  
SE = 0.017 m/m  
ST = 30.017

Pls Sta 33+51.892  
Δ = 421.183  
Ls = 90.000  
LT = 60.018  
ST = 30.017

PEPSI BOTTLING VENTURES, LLC  
DB. 2077 P 3111

Pls Sta 30+19.805  
 $\theta_s = 4^\circ 22' 12''$   
 $L_s = 90.000$   
 $LT = 60.018$   
 $ST = 30.017$

PI Sta 31+69.206  
 $\Delta = 22^\circ 53' 05''$   
 $L = 235.654$   
 $T = 119.419$   
 $R = 590.000$   
 $SE = 0.07 \text{ m/m}$   
 $RO = 90.000$

Pls Sta 33+15.458  
 $\theta_s = 42.2212^\circ$   
 $L_s = 90.000$   
 $LT = 60.018$   
 $ST = 30.017$

-WBL-

Pls Sta 30+58.797 Pl Sta 32+06.866  
 $\Delta = 22^{\circ} 33' 35.8''$   
 $L_s = 90.000$   $L = 233.097$   
 $LT = 60.018$   $T = 118.078$   
 $STs = true and correct cusp$   $R = 592.000$   
 $SE = 1.007 \text{ m/m}$   
 $RA = 90.000$

Pls Sta 33+51.892  
 $\theta_s = 42^\circ 18.9'$   
 $L_s = 90.000$   
 $LT = 60.018$   
 $ST = 30.017$

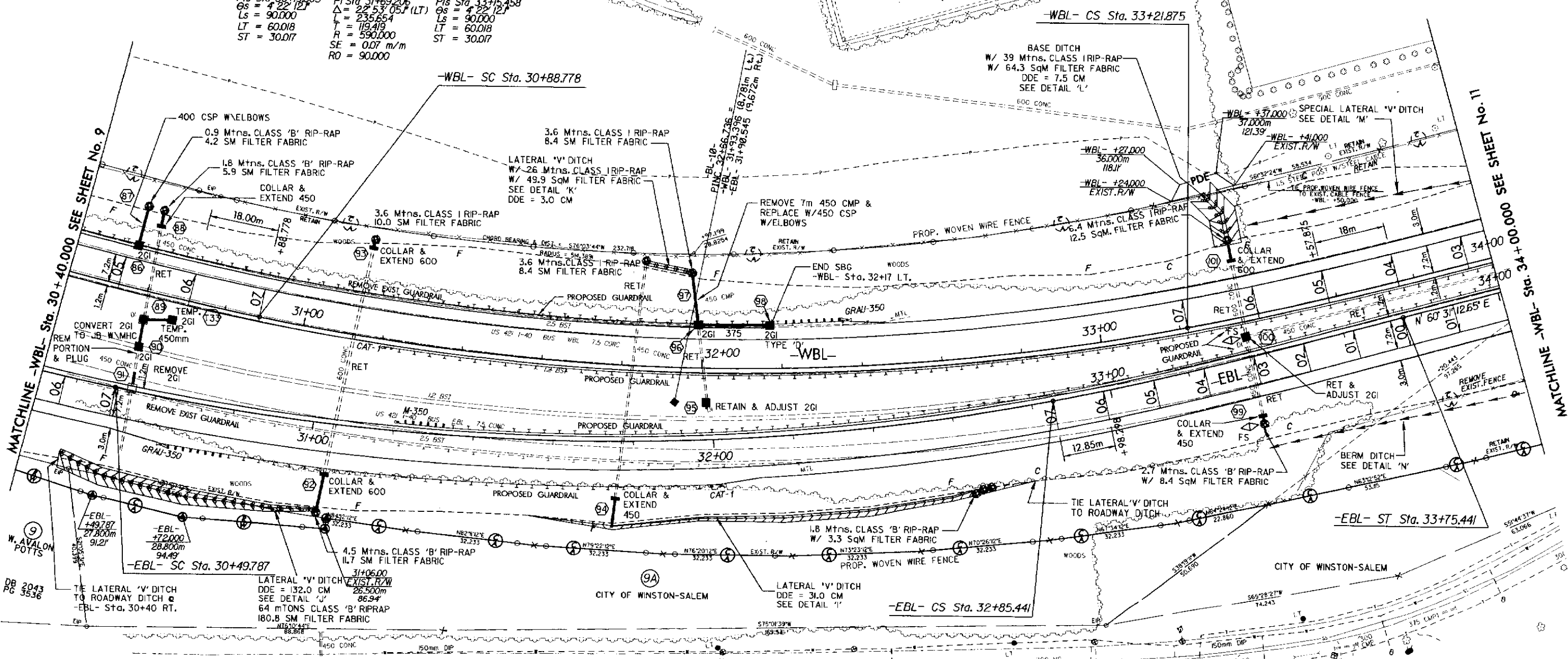


CONST.REV.

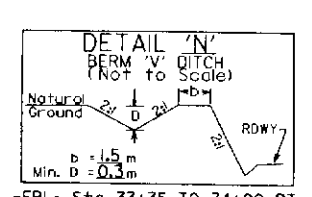
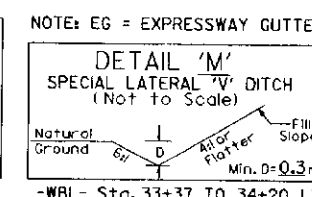
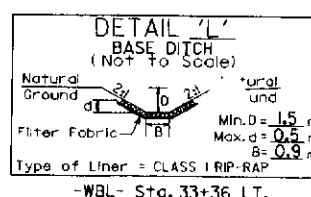
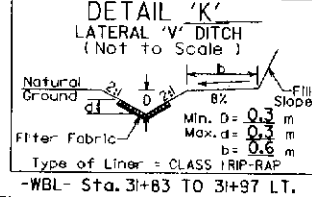
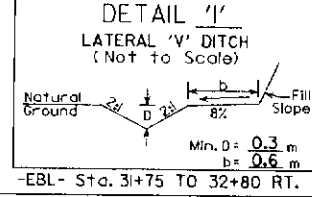
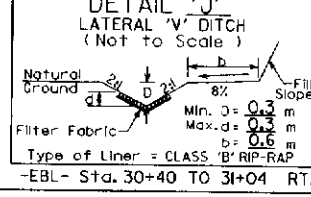
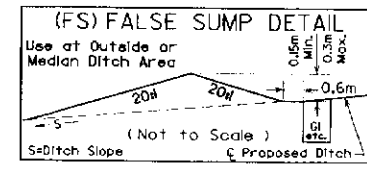
R / W REV.

|                                                                                                       |                                                                                     |
|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PROJECT REFERENCE NO.                                                                                 | SHEET NO.                                                                           |
| R-0952A                                                                                               | 10                                                                                  |
| R/W SHEET NO.                                                                                         |                                                                                     |
| ROADWAY DESIGN<br>ENGINEER                                                                            | HYDRAULICS<br>ENGINEER                                                              |
|                    |  |
| <p>NOTE: SEE SHEET NO. 22 FOR -WBL- PROFILE<br/>         NOTE: SEE SHEET NO. 17 FOR -EBL- PROFILE</p> |                                                                                     |

NOTE: SEE SHEET No. 22 FOR -WBL- PROFILE  
NOTE: SEE SHEET No. 17 FOR -EBL- PROFILE

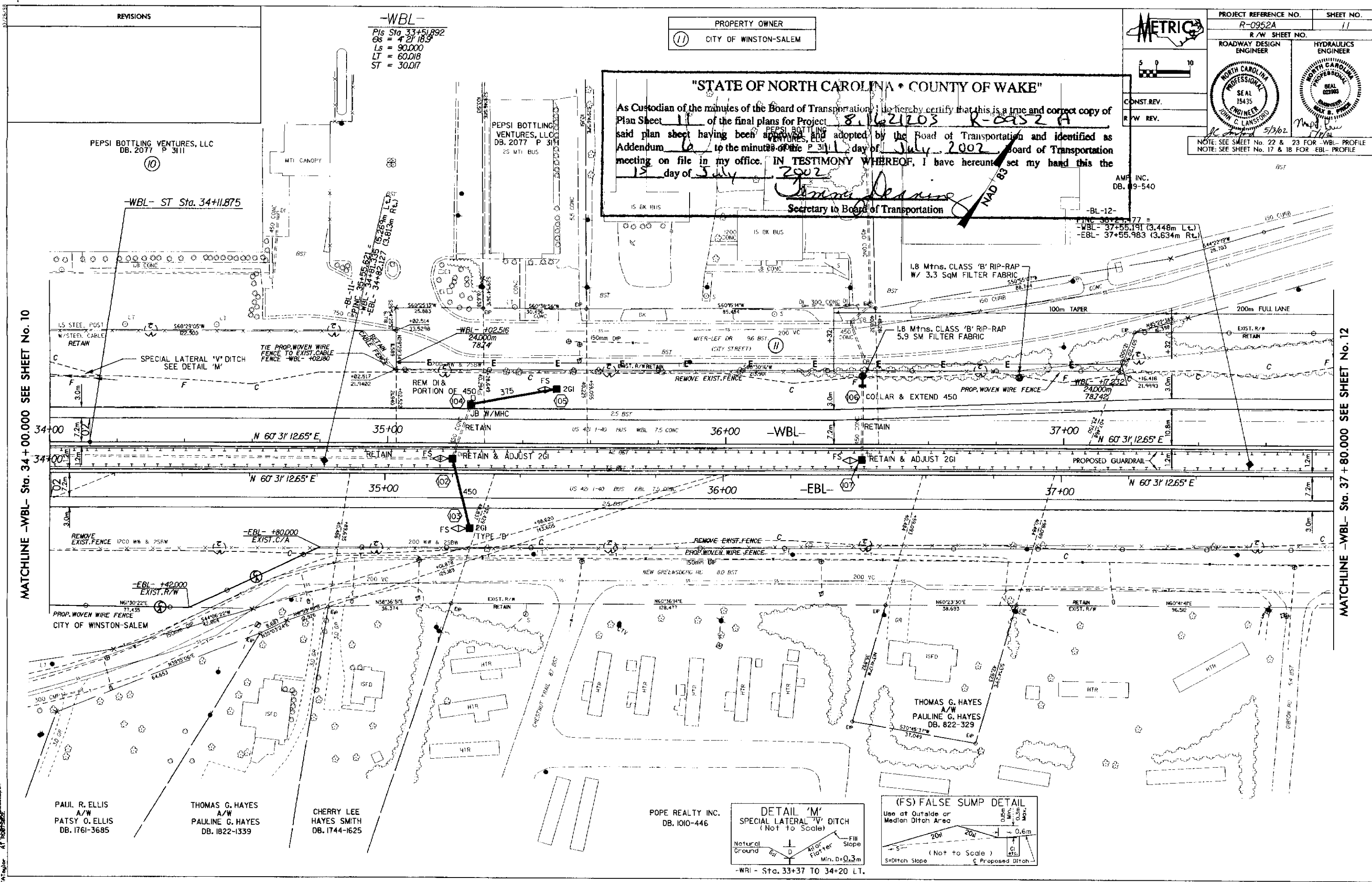


NOTE: SBG = SHOULDER BERM GUTTER



03-MAY-2002 143  
ATaylor ATaylor  
ATaylor ATaylor

690



MATCHLINE -WBL- Sta. 34 + 00.000 SEE SHEET No. 10

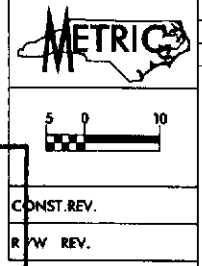
MATCHLINE -WBL- Sta. 37 + 80.000 SEE SHEET No. 12

REVISIONS

-WBL-  
Pls Sta 33+51.892  
G = 4.2118.9  
Ls = 90.000  
LT = 60.018  
ST = 30.017

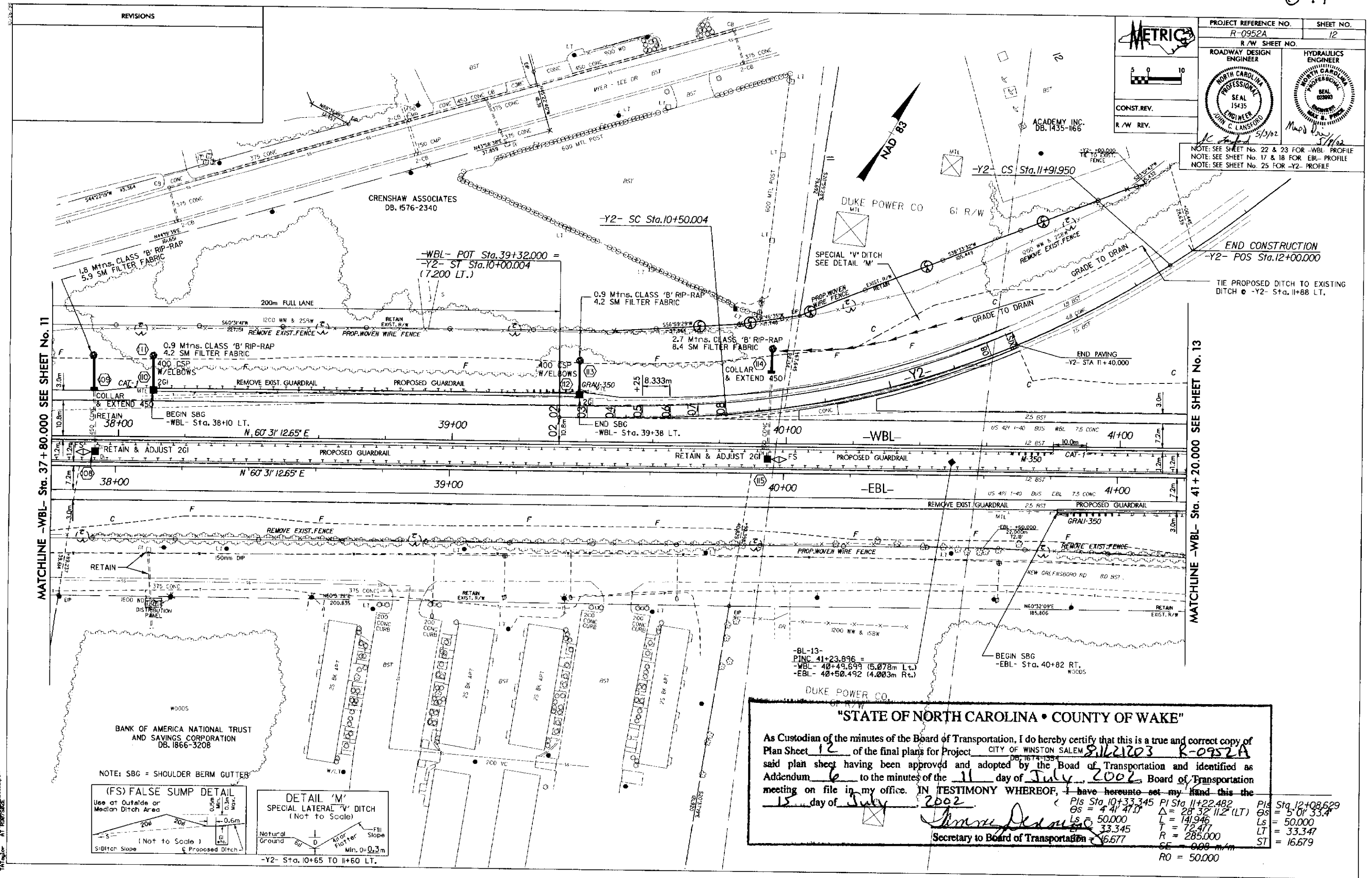
PROPERTY OWNER  
CITY OF WINSTON-SALEM

"STATE OF NORTH CAROLINA • COUNTY OF WAKE"  
As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of  
Plan Sheet 11 of the final plans for Project 8.16.21203 R-0452 A  
said plan sheet having been approved and adopted by the Board of Transportation and identified as  
Addendum 6 to the minutes of the P 311 day of July 2002 Board of Transportation  
meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the  
19 day of July 2002  
Secretary to Board of Transportation



PROJECT REFERENCE NO. R-0952A SHEET NO. 11  
R/W SHEET NO.  
ROADWAY DESIGN ENGINEER  
HYDRAULICS ENGINEER  
NORTH CAROLINA PROFESSIONAL SEAL 15435  
NORTH CAROLINA PROFESSIONAL SEAL 02390  
NOTE: SEE SHEET No. 22 & 23 FOR -WBL- PROFILE  
NOTE: SEE SHEET No. 17 & 18 FOR -EBL- PROFILE

05-MAY-2002  
TAT



**METRIC**

5 0 10

CONST. REV.

R/W REV.

|                                                                                                                                           |  |                     |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|--|
| PROJECT REFERENCE NO.<br>R-0952A                                                                                                          |  | SHEET NO.<br>12     |  |
| ROADWAY DESIGN ENGINEER                                                                                                                   |  | HYDRAULICS ENGINEER |  |
|                                                                                                                                           |  |                     |  |
| DATE: 5/3/02                                                                                                                              |  | DATE: 5/1/02        |  |
| NOTE: SEE SHEET No. 22 & 23 FOR -WBL- PROFILE<br>NOTE: SEE SHEET No. 17 & 18 FOR -EBL- PROFILE<br>NOTE: SEE SHEET No. 25 FOR -Y2- PROFILE |  |                     |  |

**"STATE OF NORTH CAROLINA • COUNTY OF WAKE"**

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 12 of the final plans for Project CITY OF WINSTON SALEM 81121203 R-0952A said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 6 to the minutes of the 11 day of July, 2002 Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.

*[Signature]*  
Secretary to Board of Transportation

|                |                        |                   |
|----------------|------------------------|-------------------|
| Sta. 10+33.345 | PI Sta. 11+22.482      | Sta. 12+08.629    |
| Os = 4' 41.47' | Δ = 28' 32" 11.2' (LT) | Os = 5' 01' 33.4' |
| Ls = 50.000    | L = 141.946            | Ls = 50.000       |
| ET = 33.345    | T = 72.477             | LT = 33.347       |
| R = 285.000    | R = 285.000            | ST = 16.679       |
| SE = 0.000 m/m |                        |                   |
| RO = 50.000    |                        |                   |

692

REVISIONS



CONST. REV.  
R/W REV.

|                                                                                                                                         |                     |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| PROJECT REFERENCE NO.<br>R-0952A                                                                                                        | SHEET NO.<br>13     |
| R/W SHEET NO.                                                                                                                           |                     |
| ROADWAY DESIGN ENGINEER                                                                                                                 | HYDRAULICS ENGINEER |
|                                                                                                                                         |                     |
| NOTE: SEE SHEET No. 23 FOR -WBL- PROFILE<br>NOTE: SEE SHEET No. 18 FOR -EBL- PROFILE<br>NOTE: SEE SHEET 2-F FOR MEDIAN CROSSOVER DETAIL |                     |

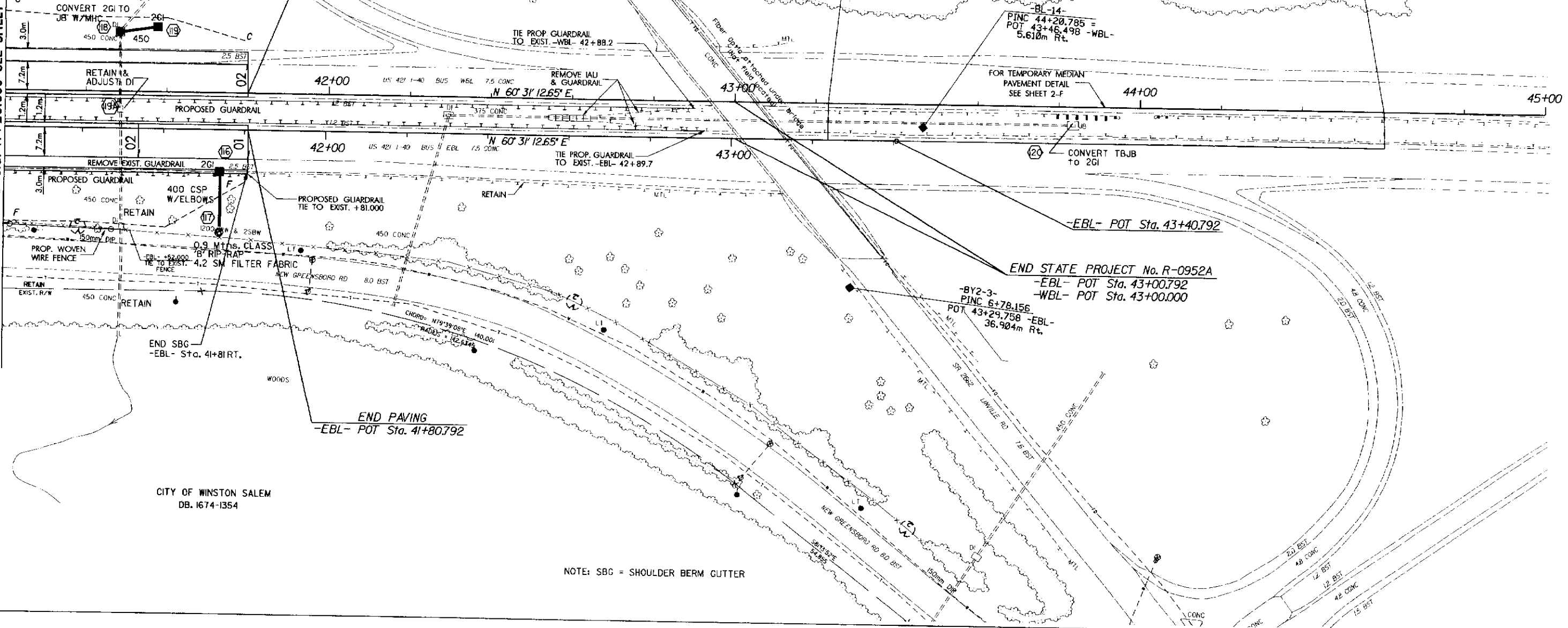
"STATE OF NORTH CAROLINA • COUNTY OF WAKE"

As Custodian of the minutes of the Board of Transportation, I do hereby certify that this is a true and correct copy of Plan Sheet 13 of the final plans for Project 8.16.210203 R-0952A said plan sheet having been approved and adopted by the Board of Transportation and identified as Addendum 6 to the minutes of the 11 day of July, 2002, Board of Transportation meeting on file in my office. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 15 day of July, 2002.

*James Deering*  
Secretary to Board of Transportation

WATSON INDUSTRIES INC.  
DB. 1840-3762  
15 BK BUS

MATCHLINE -WBL- Sta. 41+20.000 SEE SHEET No. 12



NOTE: SBC = SHOULDER BERM GUTTER

03-MAY-2002 ME  
TAT:mec