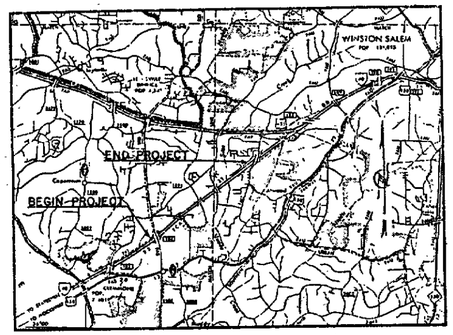
517

F-0911C

PROJECT: 8.1610402

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



SKETCH MAP SHOWING LOCATION OF STATE PROJECT 8.1610402

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
FORSYTH COUNTY

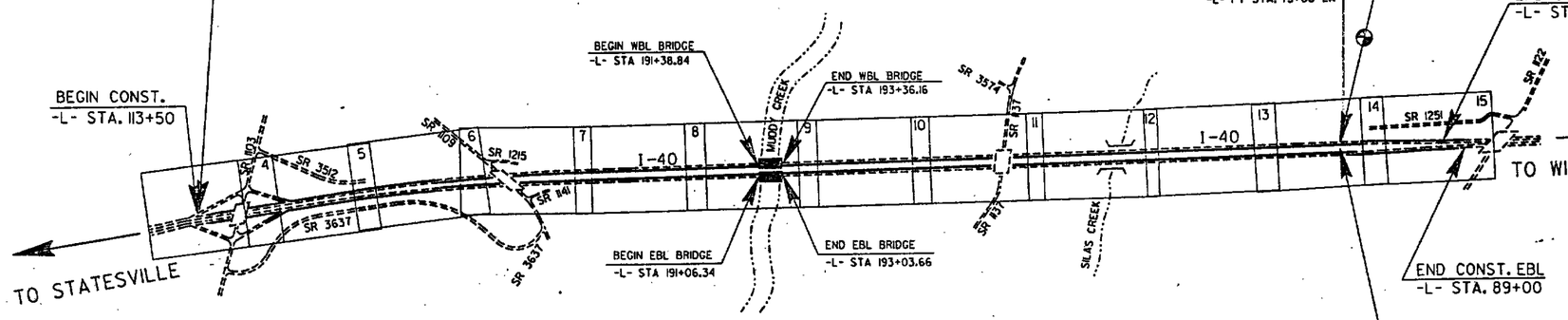
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	8.1610402	1	165
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
8.1610402	[redacted]	R/W, UTIL, CONST.

LOCATION: I-40 FROM 0.15 MILES WEST OF SR 1103 TO 0.3 MILES WEST OF SR 1122

TYPE OF WORK: WIDENING, RESURFACING, REHABILITATION OF EXISTING PAVEMENT, PAVING, GRADING, DRAINAGE, STRUCTURES, LONGLIFE PAVEMENT MARKERS, AND SIGNING

-L- I-40 STA. 113+50 BEGIN STATE PROJECT 8.1610402
-L- I-40 STA. 113+50 BEGIN F. A. PROJECT [redacted]

-L- PT STA. 271+46.52 LB=
-L- PT STA. 75+00 LA



-L- I-40 STA. 75+00 END STATE PROJECT 8.1610402
-L- I-40 STA. 75+00 END F. A. PROJECT [redacted]

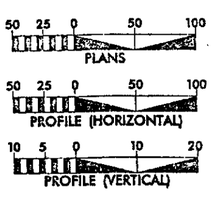
NOTE: THIS IS A CONTROLLED ACCESS PROJECT WITH ACCESS LIMITED TO INTERCHANGES

PROJECT NO	ROAD NUMBER
8.1610402	I-40 From WEST OF SR 1103 to WINSTON-SALEM. SR 1122 WEST OF WINSTON-SALEM.
SECONDARY ROAD	I-40 SR-1103 to SR-1122

PRESENTED FOR REGISTRATION AND RECORDED
DEPARTMENT OF TRANSPORTATION
FEB 22 AM 11:58
L.E. SPEAS
REGISTER OF DEEDS
FORSYTH CO. N.C.
Kathy Daniels

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, Pauline Wagner, do hereby certify that this is a true and correct copy of Plan Sheet 1 of Addendum 1 to the Plans identified as 8.1610402 February 1994 Board of Transportation. I have hereunto set my hand this the 14 day of February, 1994.
Custodian of Minutes of Board of Transportation

GRAPHIC SCALES



DESIGN DATA

ADT 1990 = 30,200 – 34,500
ADT 2010 = 51,100 – 58,300
DHV = 10%
D = 60%
T = 20%
V = 60 MPH

PROJECT LENGTH

LENGTH ROADWAY F.A. PROJECT	[redacted]	= 2.955 MILES
LENGTH STRUCTURE F.A. PROJECT	[redacted]	= 0.037 MILES
TOTAL LENGTH STATE PROJECT	8.1610402	= 2.992 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS

1996 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: SEPTEMBER 30, 1992

LETTING DATE: JANUARY 18, 1994

J. D. COCHRAN, P. E. — PROJECT ENGINEER

S. A. DRUM, P. E. — PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HANGEN
Randall C. Hangen P.E.
SIGNATURE 10-26-93

ROADWAY DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM
S A Drum P.E.
SIGNATURE

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
D R Morton P.E.
STATE HIGHWAY ENGINEER - DESIGN

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
Ray C Shelton
APPROVED FOR DIVISION ADMINISTRATOR — 12-2-93 DATE

26-OCT-1993 14:02
/usr/roy/10911c/gpk/1911c.ish

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	4	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

-L- I-40 STA 113+59 BEG STATE PROJ 8160402
-L- I-40 STA 113+50 BEG F.A. PROJ IM-40-3(80)184
-N 834,905.2911 E 1,591,105.8742

BEGIN OUTSIDE WIDENING WBL STA 119+00

BEGIN CONSTRUCTION STATION 113+50

BEG SPEC G/R +75

BCT-1 N46° 10' 26"E

I-40 WBL

EXISTING E.O.L.

REMOVE

REMOVE G/R

CONVERT EXIST. CB TO 2GI

RETAIN SYSTEM

EXISTING E.O.L.

PROPOSED E.O.L.

REMOVE

BEG SPEC G/R +50

BCT-1

REMOVE

BEGIN OUTSIDE WIDENING EBL STA 119+00

BEG G/R +27.5

REMOVE & REPLACE W/ SPEC. JB

CONVERT TO JB.

END G/R +65

MIN DEPTH

PAVED SHOULDER

ROADWAY DESIGN

NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER

HYDRAULIC DESIGN

NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HENDRICKS

PRESENTED FOR REGISTRATION AND RECORDED

'94 FEB 22 AM

DEPARTMENT OF TRANSPORTATION

Custodian of Minutes of Board of Transportation

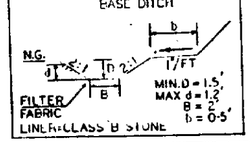
"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, _____, do hereby certify that this is a true and correct copy of Plan Sheet 4 of the final plans for Project 8.1610402 identified as Addendum 11 for the meeting on the _____ day of _____ 19 94, Board of Transportation, and that I have hereunto set my hand this the 14 day of February, 19 94.

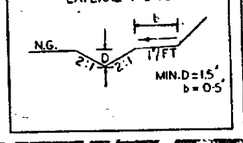
FORSYTH CO. N.C.
$5.00

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	5	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

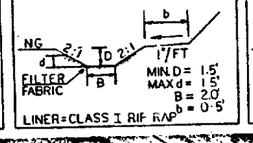
TYPICAL A
EASE DITCH



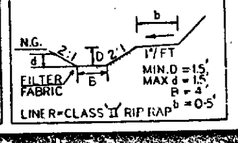
TYPICAL C
LATERAL 'V' DITCH



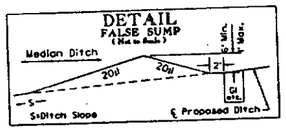
TYPICAL I
BASE DITCH



TYPICAL K
BASE DITCH



DETAIL
FALSE SUMP
(Not to Scale)



-L-
PI = 138+31.21
Δ = 01° 20' 38.4" RT.
D = 00° 15' 00"
T = 268.81
L = 537.60
R = 22918.312

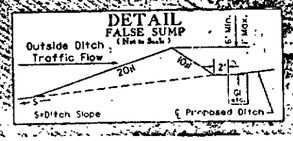
RAMP "A"
PI = 2+69.35
Δ = 21° 17' 56" RT
D = 4° 00'
L = 532.47
T = 269.35
R = 1432.39

RAMP AREV
PIs STA 1+66.75 — PI STA 3+99.28
θs = 5° 37' 30" Δ = 13° 22' 26"
Ls = 250.00' D = 4° 30' 00"
LT = 166.75' L = 297.20'
ST = 83.41' T = 149.28'
R = 1273.24'

RAMP "D"
PI STA = 1+80.49
Δ = 14° 21' 48" LT
D = 4° 00'
L = 359.08'
T = 180.49'
R = 1432.39'

RAMP DREV
PIs STA 1+33.35 — PI STA 3+39.64 — PIs STA 5+45.46
θs = 3° 00' Δ = 8° 21' 48" θs = 3° 00'
Ls = 200.00' D = 3° 00' Ls = 200.00'
LT = 133.35' L = 278.78' LT = 133.35'
ST = 66.68' T = 139.64' ST = 66.68'
R = 1909.86'

DETAIL
FALSE SUMP
(Not to Scale)



ROADWAY DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM
10-2-93

HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HENDRICK
4-20-94

NOTE: SEE PLAN SHEET 27 FOR RP AREV AND RP DREV PROFILE

NOTE: SEE PLAN SHEET 16 FOR EBL AND WBL PROFILE

PAVED SHOULDER

DEPARTMENT OF TRANSPORTATION
Custodian of Minutes of Board of Transportation

519

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, Pauline S. Swayze, do hereby certify that this is a true and correct copy of the final plans for Project 8.1610402, identified as Addendum 1, Board of Transportation meeting IN TENNESSEE, I have hereunto set my hand this the 14 day of February, 1994.
Pauline S. Swayze

FEB 22 AM 11:50
ect copy
identified as
LE, SPEAS
OF DEEDS
SYTH CO. N.C.
Deputy

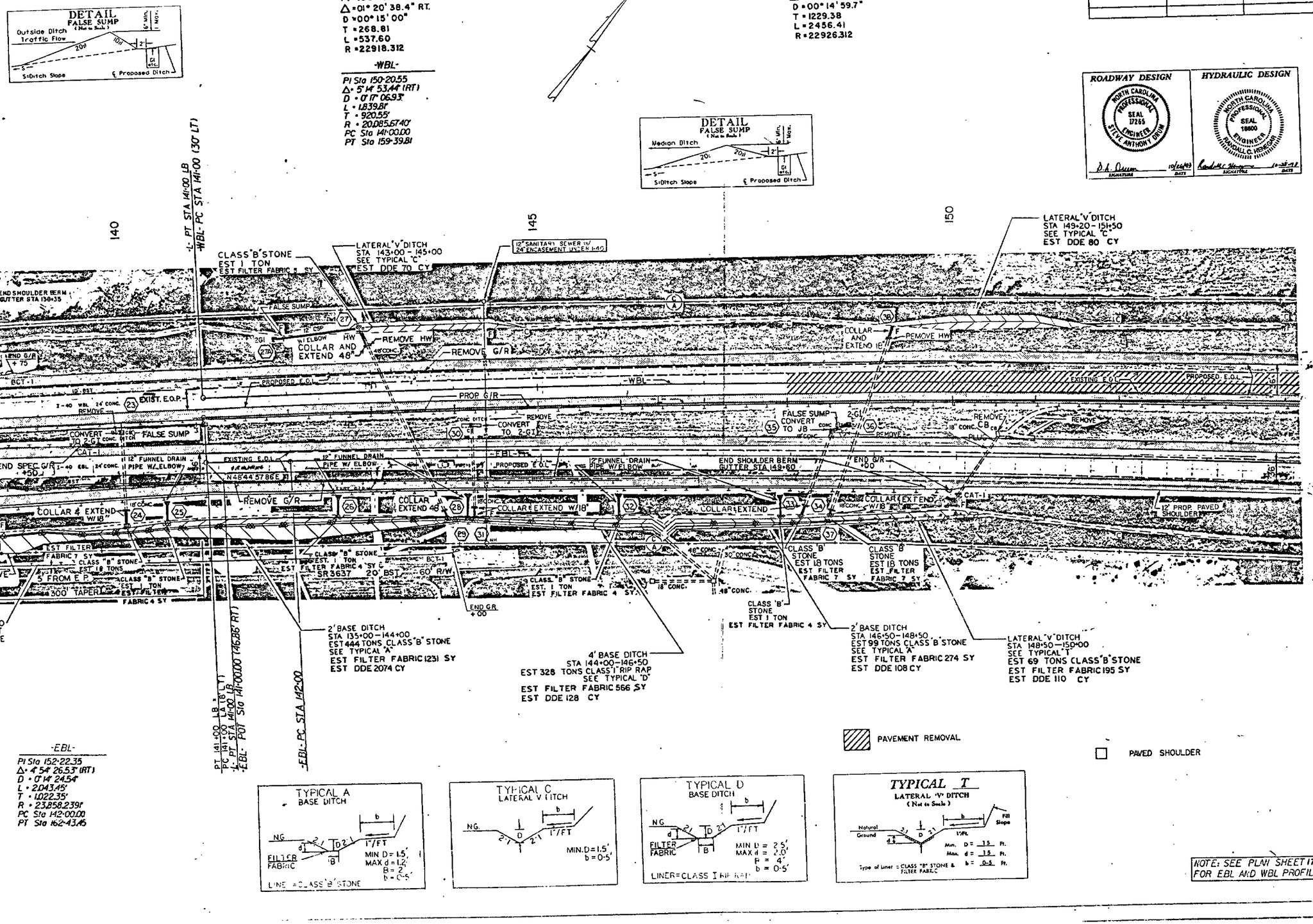
$5.00

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-1610402	6	

STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

ROADWAY DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM — S.A. Drum — 10/24/93 — SIGNATURE / DATE

HYDRAULIC DESIGN — NORTH CAROLINA PROFESSIONAL SEAL 18600 ENGINEER RANDALL C. HENDRICK — Randall C. Hendrick — 10-25-93 — SIGNATURE / DATE



520

PRESENTED FOR REGISTRATION AND RECORDED

DEPARTMENT OF TRANSPORTATION

Custodian of Minutes of Board of Transportation

FEB 22 AM 11:50

L.E. SPEAS REGISTER OF DEEDS #50

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, _____, do hereby certify that this is a true and correct copy of Plan Sheet 6 of the final plans for Project 8.1610402, identified as Addendum 1, of the Transportation Improvement Program, Board of Transportation minutes of _____ 19 94, and I have hereunto set my hand this the 14 day of February, 19 94.

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	7	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

521

-L-
PI = 153+29.38
Δ = 06° 08' 20" RT.
D = 00° 14' 59.7"
T = 1229.38
L = 2456.41
R = 22926.312

-WBL-
PI Sta 150-20.55
Δ = 5° 14' 53.44" (RT)
D = 1° 17' 06.93"
L = 1839.81'
T = 920.55'
R = 2008567.40'
PC Sta 141-00.00
PT Sta 159-39.81

NOTE: SR 1109 ROADWAY & BRIDGE NOT A PART OF THIS PROJECT

-WBL- PT STA 159-39.81

-L- POC STA 162-00
-WBL- POT STA 162-01.65 (10' LT)

155 160 165

TIE TO EXIST FENCE +40

TIE TO EXIST FENCE +00

EST FILTER FABRIC 137 SY
EST DDE 62 CY
2' BASE DITCH
FROM STA 163-00 TO STA 164+00
CLASS 'B' STONE EST 50 TONS
SEE TYPICAL "A"

2' BASE DITCH
SEE TYPICAL "E" STA 164+00 TO STA 164+70
EST DDE 43 CY

60' R/W

SR 1215

BEG G/R
END G/R
BURY IN CUT
REMOVE FENCE
REMOVE CB
F COLLAR EXTEND 18'
2-GI
CONVERT TO JB
FALSE SUMP
REMOVE
PLUG
EXISTING E.O.L.
PROPOSED E.O.L.
SPEC. CONC BARRIER AND EXPRESSWAY GUTTER SEE DETAIL SHT. 2L
SCB-1
CAT-1
BCT-1
END SPEC G/R
PROP G/R
REMOVE & REPLACE W/SPEC JB
EXIST CONC DITCH
N 53° 36' 24.2" E
N 52° 45' 57.79" E

SR 1141
GUN CLUB RD 60' R/W

TIE TO EXIST. FENCE +25

TIE TO EXIST. FENCE +15

-L- POC STA 162-49.47
-EBL- PT STA 162-43.45 (87.96' RT)

PT 165+56.41

-EBL-
PI Sta 152-22.35
Δ = 4° 54' 26.5" (RT)
D = 0° 14' 24.54"
L = 2043.15'
T = 1022.35'
R = 23858.239'
PC Sta 142-00.00
PT Sta 162-43.45

PAVEMENT REMOVAL

PAVED SHOULDER

DETAIL
FALSE SUMP
Outside Ditch
Traffic Flow
S=Ditch Slope
℄ Proposed Ditch

DETAIL
FALSE SUMP
Median Ditch
S=Ditch Slope
℄ Proposed Ditch

DETAIL
FALSE SUMP
Outside Ditch
Traffic Flow
S=Ditch Slope
℄ Proposed Ditch

TYPICAL A
BASE DITCH
N.G.
FILL SLOPE
FILTER FABRIC
LINER = CLASS 'B' STONE
MIN D = 1.5'
MAX d = 1.2'
B = 2.0'
b = 0'-5"

TYPICAL E
BASE DITCH
N.G.
FILL SLOPE
MIN D = 1.5'
B = 2.0'
b = 0'-5"

ROADWAY DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE E. HOWARD

HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 18600 ENGINEER RANDALL C. HOUSTON

NOTE: SEE PLAN SHEET 1B FOR EBL AND WBL PROFILE

PRESENTED FOR REGISTRATION AND RECORDED

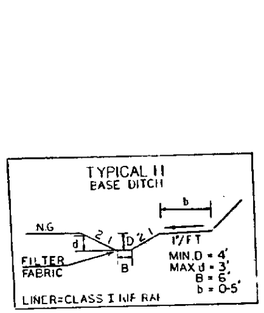
"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
of Plan Sheet ___, do hereby certify that this is a true and correct
Addendum ___ to the plans for Project 8.1610402
9 94, inclusive, identified as
my hand this the 14 day of February, 94

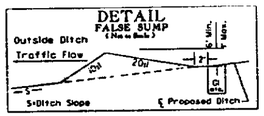
DEPARTMENT OF TRANSPORTATION
Custodian of Minutes of Board of Transportation

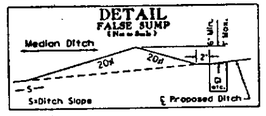
94 FEB 22 AM 9:13
REGISTER OF DEEDS
FORSYTH CO. N.C.

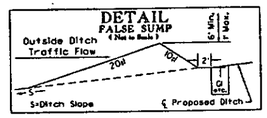
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	8	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

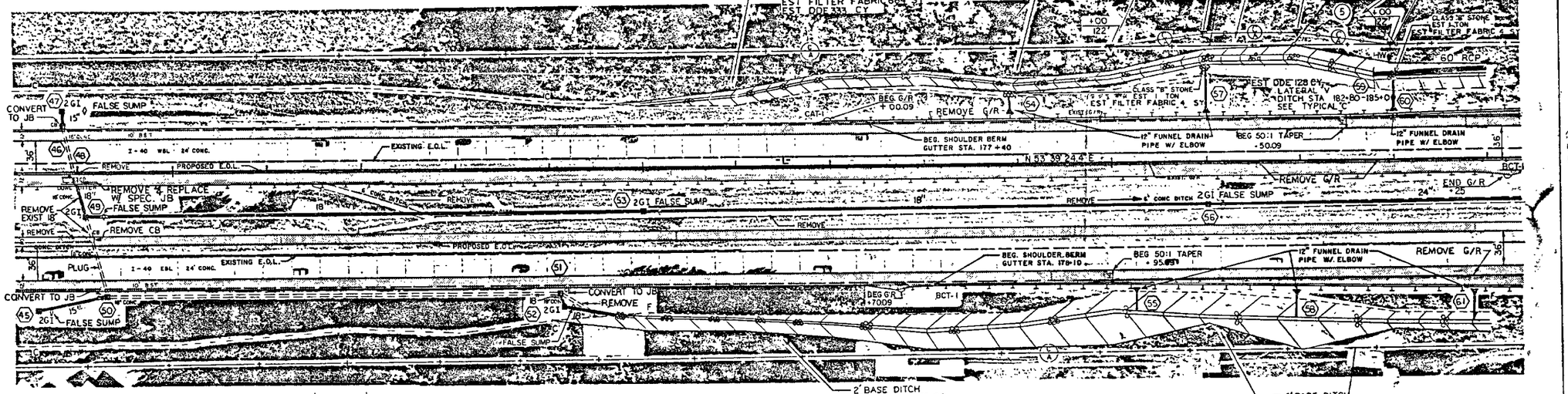
522

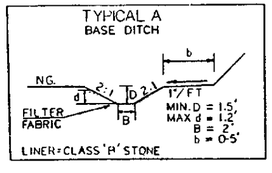


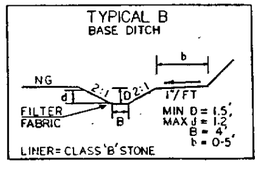


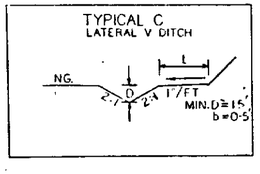


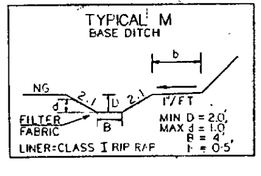












ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM	NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RUSSELL C. HENDRICKS
S. A. Drum 10/14/93	Russell C. Hendricks 10-7-93

NOTE: SEE PLAN SHEET 19 FOR EBL AND WBL PROFILE

PRESENTED FOR REGISTRATION AND RECORDATION

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, Pauline Gregg, a Notary Public, do hereby certify that this is a true and correct copy of Plan Sheet 11 of the final plans for Project 8.1610402, Identified as Addendum 1 to Board of Transportation minutes on file in my office, and that I am the custodian of the records of the Board of Transportation.

IN TESTIMONY WHEREOF, I have hereunto set my hand, this the 14 day of February, 1994.

Pauline Gregg
Notary Public
My Commission Expires: 8-14-94

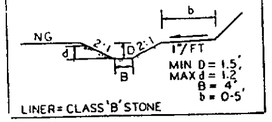
DEPARTMENT OF TRANSPORTATION
Pauline Gregg
Custodian of Minutes of Board of Transportation

FEB 22 A11:5

RECORDED IN DEEDS
FORSYTH CO. N.C.
#5
Kaun

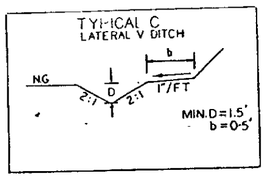
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-1610402	9	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

TYPICAL B
BASE DITCH



LINER = CLASS 'B' STONE

TYPICAL C
LATERAL V DITCH

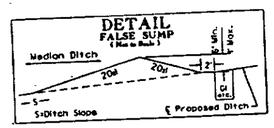


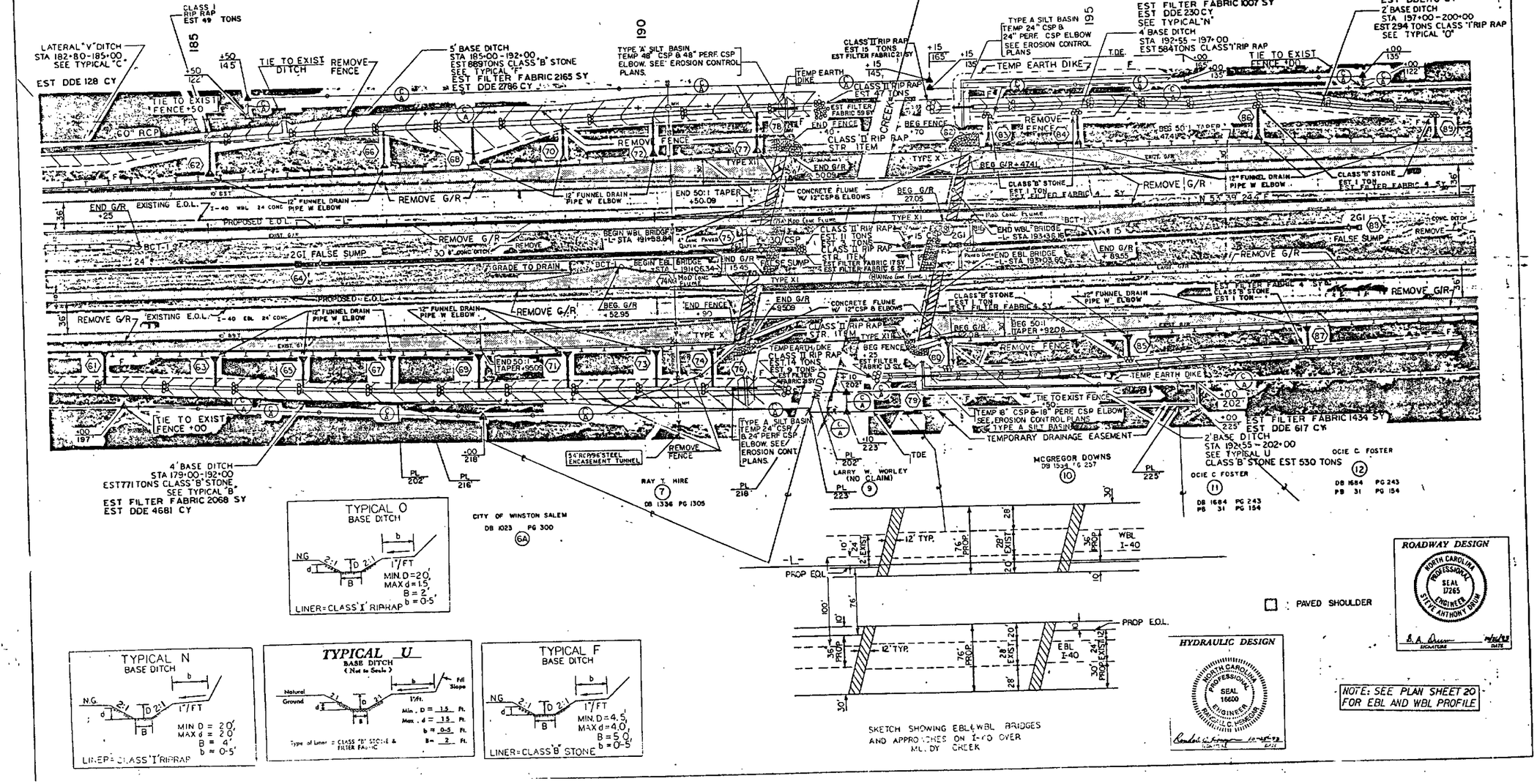
K PARTNERSHIP
(6)
DB 1751 PG 1796

NOTE FOR STRUCTURE PLANS SEE SHEETS S1 – S74

WILSON SPARKS
(8)
DB 1554 PG 259

DETAIL
FALSE SUMP
(Not to Scale)





TYPICAL O
BASE DITCH

LINER = CLASS 'I' RIPRAP

TYPICAL N
BASE DITCH

LINER = CLASS 'I' RIPRAP

TYPICAL U
BASE DITCH
(Not to Scale)

TYPICAL F
BASE DITCH

LINER = CLASS 'B' STONE

SKETCH SHOWING EBL & WBL BRIDGES AND APPROACHES ON I-40 OVER MUDDY CREEK

ROADWAY DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM
S. A. Drum 2/14/94
SIGNATURE DATE

HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HENEGAR
Randall C. Henegar 2/14/94
SIGNATURE DATE

NOTE: SEE PLAN SHEET 20 FOR EBL AND WBL PROFILE

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, Pauline J. Zenger, a Notary Public, do hereby certify that this is a true and correct copy of Plan Sheet 11 of the above final plans for Project 8.1610402 identified as Addendum 1 to the contract dated the 14 day of February 19 94, Board of Transportation item number 94 FEB 22 A11:50, and that I have hereunto set my hand this the 14 day of February, 19 94.

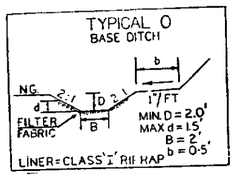
Pauline J. Zenger
Notary Public
My Commission Expires: 10-1-97

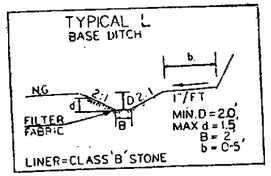
DEPARTMENT OF TRANSPORTATION
PRESENTED FOR REGISTRATION
COPY CERTIFIED TO BE A TRUE COPY
Pauline J. Zenger
Custodian of Minutes of Board of Transportation

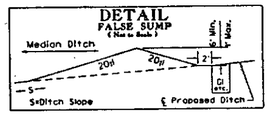
L.E. SPEAS
REGISTER OF DEEDS #5
Kathy Daniels
DEPUTY/ASST.

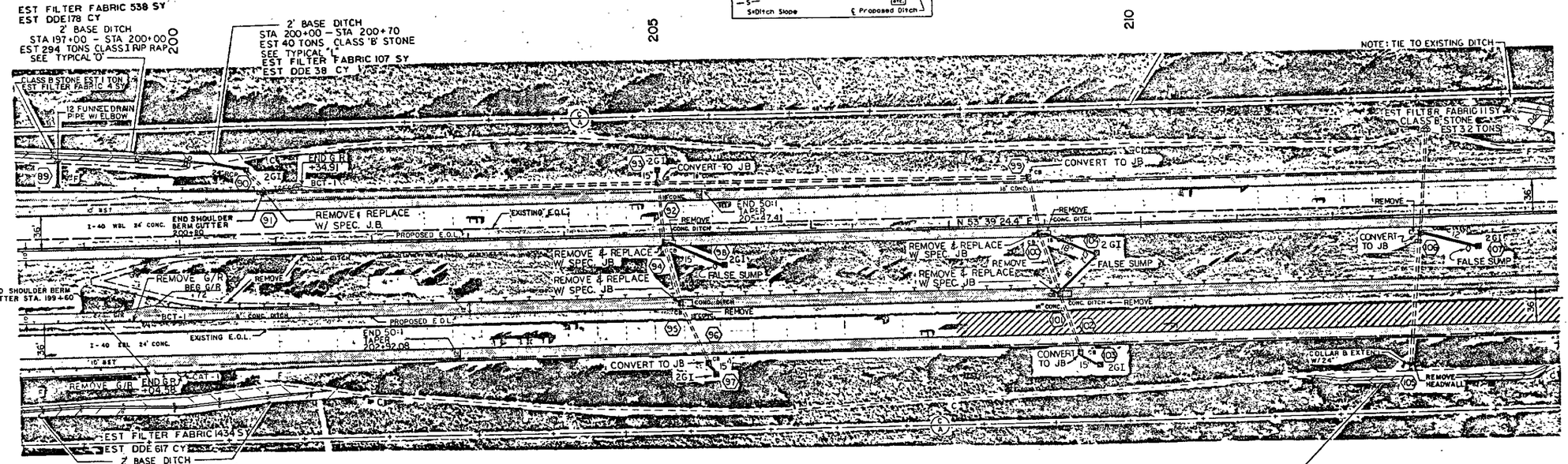
U
2
3

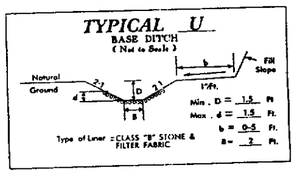
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	10	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

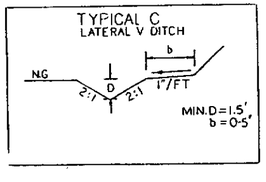












PAVEMENT REMOVAL

PAVED SHOULDER

ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DUNN	NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HINKSON
S.A. Dunn 1-6-98 SIGNATURE DATE	Randall C. Hinkson 10-28-98 SIGNATURE DATE

NOTE: SEE PLAN SHEET 21 FOR EBL AND WBL PROFILE

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, Pauline Lynch, a Notary Public, do hereby certify that this is a true and correct copy of Plan Sheet 10 of the final plans for Project 8.1610402, identified as Addendum 1, Board of Transportation Minutes, Vol. 1 thru 4 of February 1998 my hand this the 14 day of February, 1994.

PRESENTED FOR REGISTRATION:
FEB 22 AM 11:58
L.E. SPEAS
REGISTER OF DEEDS
FORSYTH CO. N.C.

DEPARTMENT OF TRANSPORTATION
Custodian of Minutes of Board of Transportation

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	11	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

525

NOTE : SR 1137 ROADWAY & BRIDGE NOT A PART OF THIS PROJECT

215

EST FILTER FABRIC 174 SY
EST DDE 593 CY
4' BASE DITCH
STA 214+00 – STA 215+00
SEE TYPICAL 'V'
EST 66 TONS CLASS B STONE

TIE TO EXISTING DITCH

2' BASE DITCH
STA 215+00 – STA 216+00
SEE TYPICAL 'U'
EST 56 TONS CLASS 'B' STONE
EST FILTER FABRIC 152 SY
EST DDE 53 CY

220

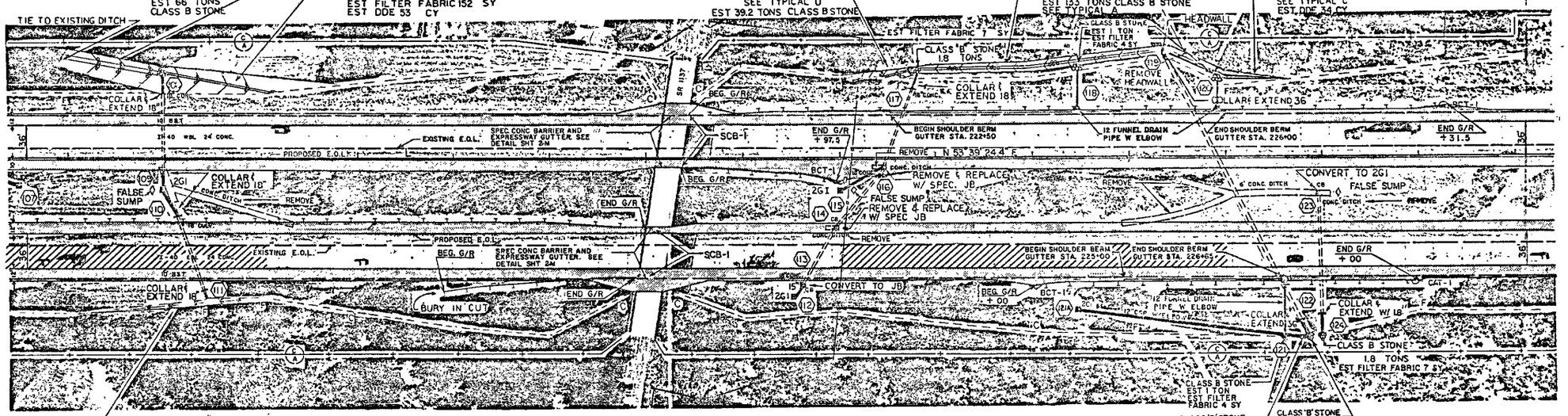
EST FILTER FABRIC 107 SY
EST DDE 16 CY
2' BASE DITCH
STA 222+00 – 222+70
SEE TYPICAL 'U'
EST 39.2 TONS CLASS B STONE

225

EST FILTER FABRIC 370 SY
EST DDE 54 CY
2' BASE DITCH
STA 222+70 – 225+40
EST 133 TONS CLASS 'B' STONE
SEE TYPICAL 'A'

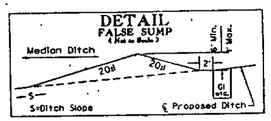
2' BASE DITCH
STA 225+40 – STA 226+00
SEE TYPICAL 'U'
EST 34 TONS CLASS 'B' STONE
EST FILTER FABRIC 91 SY
EST DDE 56 CY

LATERAL 'V' DITCH
STA 226+00 – 227+00
SEE TYPICAL 'C'
EST DDE 34 CY



LATERAL "V" DITCH
STA 214+50 – STA 216+00
SEE TYPICAL "T"
EST 69 TONS CLASS 'B' STONE
EST FILTER FABRIC 195 SY
EST DDE 25 CY

DETAIL
FALSE SUMP
(Not to Scale)



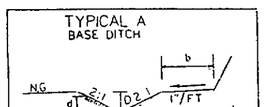
PAVEMENT REMOVAL

ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY BRUM	NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RAWLS C. HAYES
SIGNATURE 10/26/93 DATE	SIGNATURE 10-26-93 DATE

PAVED SHOULDER

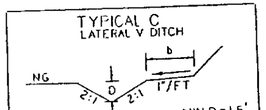
NOTE: SEE PLAN SHEET 22 FOR EBL AND WBL PROFILE

TYPICAL A
BASE DITCH



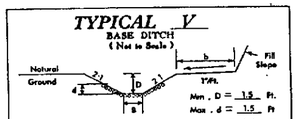
MIN. D = 1.5'
MAX d = 1.2'
B = 2'
b = 0.5'

TYPICAL C
LATERAL V DITCH



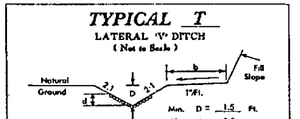
MIN D = 1.5'
b = 0.5'

TYPICAL V
BASE DITCH
(Not to Scale)



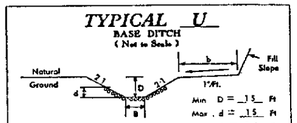
Min. D = 1.5 Ft.
Max. d = 1.5 Ft
b = 0-5 Ft
Type of Liner = CLASS "B" STONE & FILTER FABRIC B = 4 Ft.

TYPICAL T
LATERAL 'V' DITCH
(Not to Scale)



Min. D = 1.5 Ft.
Max d = 1.5 Ft
Type of Liner = CLASS "B" STONE & FILTER FABRIC b = 0-5 Ft

TYPICAL U
BASE DITCH
(Not to Scale)



Min D = 1.5 Ft
Max. d = 1.5 Ft
b = 0-5 Ft
Type of Liner = CLASS "B" STONE & FILTER FABRIC B = 2 Ft

PRESENTED FOR REGISTRATION AND RECORDATION
DEPARTMENT OF TRANSPORTATION
Division of Highways
Gordon Zeiss
Chief Engineer

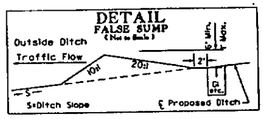
I, L. T. SPEAS, REGISTER OF DEEDS FOR FORSYTH COUNTY, NORTH CAROLINA, DO HEREBY CERTIFY THAT THIS IS A TRUE AND CORRECT COPY OF PLAN SHEET 11 AS IDENTIFIED AS ADDENDUM 1 TO THE MINUTES OF THE BOARD OF TRANSPORTATION, DATED FEB 22 AD 1994, AS RECORDED IN BOOK OF MINUTES NO. 50, PAGE 525, IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND THIS THE 14 DAY OF FEBRUARY, 1994.

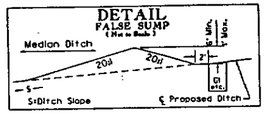
L.T. SPEAS
REGISTER OF DEEDS
FORSYTH CO. N.C.
#50 Kearney Franklin

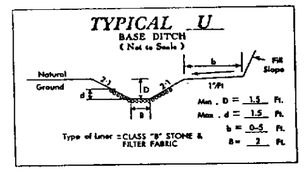
"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, Gordon Zeiss, do hereby certify that this is a true and correct copy of Plan Sheet 11 as identified as Addendum 1 to the Minutes of the Board of Transportation, dated FEB 22 AD 1994, Board of Transportation Minutes, Book 50, Page 525, IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 1994.

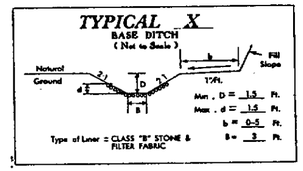
PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-1610402	12	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

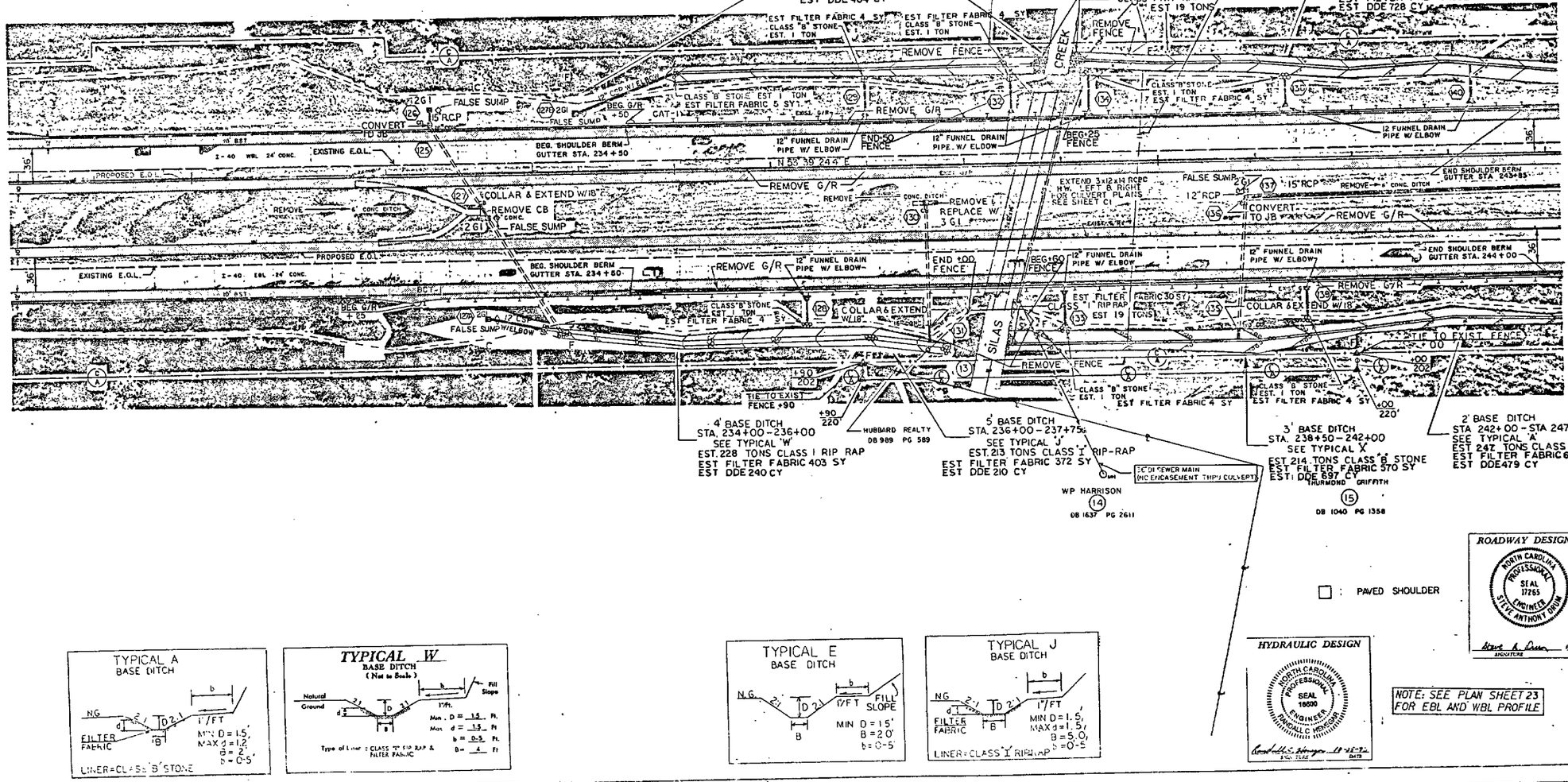
526











PRESENTED FOR REGISTRATION AND RECORDED
94 FEB 22 AM 11:
DEPARTMENT OF TRANSPORTATION
Custodian of Minutes of Board of Transportation
#5

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, ____, do hereby certify that this is a true and correct copy of Plan Sheet 12 of the final plans for Project 8.1610402 identified as Addendum ____ to the minutes on file in my office of the 4 day of 1994, Board of Transportation meeting. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 1994.

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	13	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

527

245 250 255

EST FILTER FABRIC 1062 SY
EST DDE 728 CY
2' BASE DITCH
STA 241+00 - 248+00
CLASS 'B' STONE
EST. 392 TONS
SEE TYPICAL "U"

TIE TO EXIST FENCE +00

TIE TO EXIST FENCE +00

REMOVE FENCE

SR 1251 60' R/W

CLASS B STONE 2.8 TONS

EST FILTER FABRIC 11 SY

BCT-1 END G/R

I-40 WBL 24' CONC.

EXISTING E.O.L.

PROPOSED E.O.L.

END SHOULDER BERM GUTTER STA 243+85

END SHOULDER BERM GUTTER STA 244+00

REMOVE G/R

6' CONC. DITCH

FALSE SUMP

2GT

REMOVE & REPLACE W/ SPEC. JB

CONVERT TO JB

15" CONC.

18" CONC.

I-40 EBL 24' CONC

END G/R STA 247+00

CAT-1

2' BASE DITCH
STA 242+00 - 247+00
EST 247 TONS CLASS 'B' STONE
SEE TYPICAL 'A'
EST FILTER FABRIC 684 SY
EST DDE 479 CY

LATERAL 'V' DITCH
STA 247+00 - 249+00
SEE TYPICAL 'T'
CLASS 'B' STONE
EST. 92 TONS
EST FILTER FABRIC 259 SY
EST DDE 290 CY

DETAIL FALSE SUMP (Not to Scale)

Outside Ditch
Traffic Flow
10H 20H 2' 6' min. 4' Min. 6' Max.
S=Ditch Slope ℄ Proposed Ditch

DETAIL FALSE SUMP (Not to Scale)

Median Ditch
20H 20H 2' 6' min. 4' Min. 6' Max.
S=Ditch Slope ℄ Proposed Ditch

DETAIL FALSE SUMP (Not to Scale)

Outside Ditch
Traffic Flow
10H 20H 2' 6' min. 4' Max.
S=Ditch Slope ℄ Proposed Ditch

☐ : PAVED SHOULDER

TYPICAL A
BASE DITCH

NG, 2:1, D, 2:1, 1'/FT, b, d, FILTER FABRIC, B
MIN D = 1.5'
MAX d = 1.2'
B = 2'
b = 0.5'
LINER = CLASS 'B' STONE

TYPICAL T
LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 2:1, D, 2:1, 1'/Ft., b, d, Fill Slope
Min. D = 1.5 Ft.
Max. d = 1.5 Ft.
b = 0.5 Ft.
Type of Liner = CLASS "B" STONE & FILTER FABRIC

TYPICAL U
BASE DITCH
(Not to Scale)

Natural Ground, 2:1, D, 2:1, 1'/Ft., b, d, Fill Slope, B
Min. D = 1.5 Ft.
Max d = 1.5 Ft.
b = 0.5 Ft.
B = 2 Ft.
Type of Liner = CLASS "B" STONE & FILTER FABRIC

ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY DRUM	NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HENEGAR
10/14/93 DATE	10-25-93 DATE

NOTE: SEE PLAN SHEET 24 FOR EBL AND WBL PROFILE

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, Gaudencio Quiazon, do hereby certify that this is a true and correct copy of Plan Sheet 13 of the final plans for Project 8.1610402 identified as Addendum II to the minutes of the meeting of the Board of Transportation on record in my office on the 14 day of February 19 94. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 19 94.

DEPARTMENT OF TRANSPORTATION
Gaudencio Quiazon
ASSISTANT SECRETARY
Board of Transportation

'94 FEB 22 A11:58

L.E. SPEAS
REGISTER OF DEEDS

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
8.1610402	14	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

-L-
PI = 265+07.20
Δ = 05° 22' 48.2" RT.
D = 01° 15' 45.6"
T = 213.20
L = 426.09
R = 4537.679

-WBL-

PI Sta 268+94.83
Δ = 1° 15' 08.74" (RT)
D = 0° 15' 00.00"
L = 500.97'
T = 250.50'
R = 22,918.3120'
PC Sta 266+44.34
PCC Sta 271+45.31

PI Sta 75+88.27
Δ = 0° 26' 31.66" (RT)
D = 0° 15' 00.00"
L = 176.85'
T = 88.43'
R = 22,918.3120'
PCC Sta 74+99.84
PRC Sta 76+76.69

PI Sta 80+15.11
Δ = 1° 41' 31.10" (LT)
D = 0° 15' 00.00"
L = 676.79'
T = 338.42'
R = 22,918.3120'
PRC Sta 76+76.69
PT Sta 83+53.48

-L-
PI = 269+33.46
Δ = 05° 22' 38.6" LT.
D = 01° 15' 39.7"
T = 213.37
L = 426.43
R = 4543.596

-L- PC STA. 262+94.00
-WBL- POT Sta 262+94.00 (22' LT)

-L- PC Sta 266+44.34

-L- PRC STA 267+20.09

-WBL- PCC Sta 271+45.31 LB
-WBL- PCC Sta 74+99.84 LA

-L- PT STA. 271+46.52 LB
-L- PT STA. 75+00 LA

PRC Sta 76+76.69

260 265 270

LATERAL 'V' DITCH
STA. 260+50 – 261+50
SEE TYPICAL 'C'
EST DDE 17 CY
EST FILTER FABRIC 19 SY

CLASS B STONE EST 61 TONS

SR 1251 60' R/W

15" CSP

FALSE SUMP

I-40 WBL 24" CONC

EXISTING E.O.L.

PROPOSED E.O.L.

N 53° 39' 24.4" E

-WBL-

BEG. G/R + 96.52

CLASS "B" STONE EST 1 TON
EST FILTER FABRIC 4 SY

TIE TO EXIST FENCE LT

CONVERT TO 2 GI

REMOVE G/R

LATERAL 'V' DITCH
STA 267+00 – STA 269+50
SEE TYPICAL "C"
EST DDE 42 CY

REMOVE FENCE

TIE TO EXIST FENCE +55

CLASS "B" STONE EST. 1 TON

EST FILTER FABRIC 4 SY

-L- I-40 STA. 75+00 END STATE PROJ. 8.1610402
-L- I-40 STA. 75+00 END F. A. PROJ. IMF-40-3(60)184
N 643504.7400 E 1602385.2000

END SHOULDER BERM GUTTER STA. 77+50

EST FILTER FABRIC

CLASS "B" STONE EST. 1 TON

PROPOSED E.O.L.

EXISTING E.O.L.

REMOVE AND RESET G/R

N 68° 39' 33.7" E

COLLAR & EXTEND 24"

2 GI

REMOVE

FALSE SUMP

END CRACK & SEAT WBL & EBL STA 268+00

CONVERT TO 2 GI

12" FUNNEL DRAIN PIPE W/ ELBOW

BEG. SHOULDER BERM GUTTER STA 267+00

12" FUNNEL DRAIN PIPE W/ ELBOW

-EBL-

PROPOSED E.O.L.

I-40 EBL 24" CONC.

EXISTING E.O.L.

N 53° 39' 24.4" E

COLLAR & EXTEND 24"

REMOVE G/R

BEG. G/R + 50

BEG. SHOULDER BERM GUTTER STA. 270+00

CLASS "B" STONE EST. 1 TON EST FILTER FABRIC 4 SY

END SHOULDER BERM GUTTER STA. 77+00

'V' DITCH
STA 260+50 – STA 266+00
SEE TYPICAL 'C'
EST DDE 612 CY

-L- PC Sta 262+94.00
-EBL- POT Sta 262+94.00 (22' RT)

PC Sta 266+45.35

-EBL- PCC Sta 271+45.30 LB
-EBL- PCC Sta 74+99.83 LA

PRC Sta 76+76.16

DETAIL
FALSE SUMP
(Not to Scale)

Median Ditch — 5' min. — Var. — 20ft — 20ft — 2 — 2 — 10 w/c. — 5" — Ditch Slope — ℄ Proposed Ditch

-EBL-

PI Sta 268+95.33	PI Sta 75+88.00	PI Sta 80+14.84
Δ = 1° 14' 59.56" (LT)	Δ = 0° 26' 26.97" (LT)	Δ = 1° 41' 35.83" (RT)
D = 0° 15' 00.00"	D = 0° 15' 00.00"	D = 0° 15' 00.00"
L = 499.95'	L = 176.33'	L = 677.3'
T = 249.99'	T = 88.17'	T = 338.68'
R = 22,918.3120'	R = 22,918.3120'	R = 22,918.3120'
PC Sta 266+45.35	PCC Sta 74+99.83	PRC Sta 76+76.16
PCC Sta 271+45.30	PRC Sta 76+76.16	PT Sta 83+53.48

TYPICAL C
LATERAL V DITCH

N.G. — b — D — 2:1 — 2:1 — 1'/FT

MIN. D = 1.5'
b = 0-5'

ROADWAY DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVE ANTHONY GRUM
Steve A. Grum 10/24/94
SIGNATURE DATE

HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HINSON
Randall C. Hinson 10/24/94
SIGNATURE DATE

☐ PAVED SHOULDER

NOTE: SEE PLAN SHEET 25 FOR EBL AND WBL PROFILE

528

PRESENTED FOR REGISTRATION AND RECORDED
DEPARTMENT OF TRANSPORTATION
FEB 22 1995
Custodian of Minutes of Board of Transportation

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"
I, L.E. Speas, Register of Deeds for Forsyth Co. N.C., do hereby certify that this is a true and correct copy of Plan Sheet 14, this final plans for Project 8.1610402, identified as Addendum 1 to the minutes file in my office of the 4th day of February 19 94 Board of Transportation meeting. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 19 94.

L.E. SPEAS
REGISTER OF DEEDS
FORSYTH CO. N.C.
#85 Rachel Franklin

PROJ. REFERENCE NO.	SHEET NO.	TOTAL SHEETS
B-1610402	15	
STATE PROJ. NO.	F. A. PROJ. NO.	DESCRIPTION

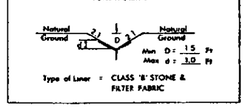
529

TYPICAL P
TOE PROTECTION
(Not to Scale)

Type of Liner = CLASS 'B' STONE & FILTER FABRIC

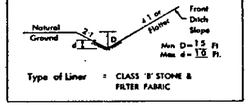
TYPICAL R
SPECIAL DITCH
(Not to Scale)

TYPICAL Q
'V' DITCH
(Not to Scale)

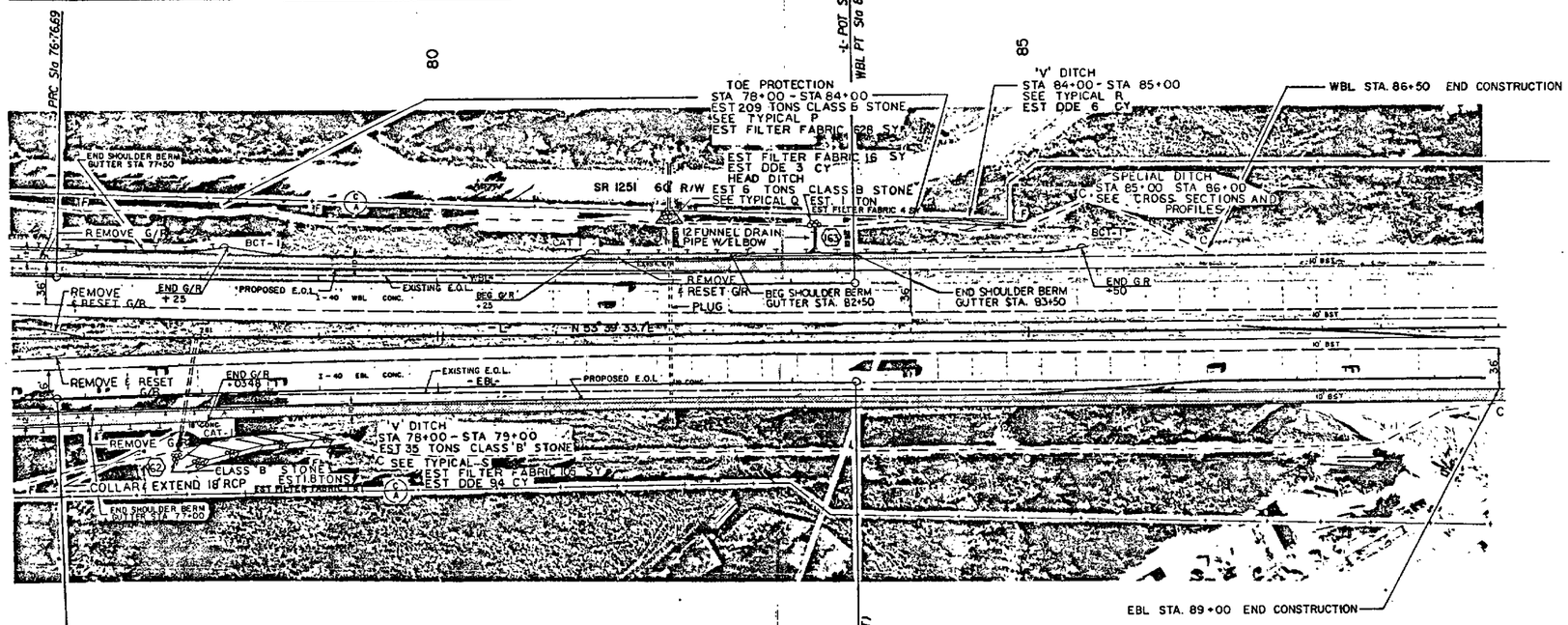


Type of Liner = CLASS 'B' STONE & FILTER FABRIC

TYPICAL S
SPECIAL DITCH
(Not to Scale)



Type of Liner = CLASS 'B' STONE & FILTER FABRIC



-WBL-

PI Sta 268+94.83	PI Sta 75+88.27	PI Sta 80+15.11
Δ = 1° 15' 06.7" (RT)	Δ = 0° 26' 31.66" (RT)	Δ = 1° 41' 31.10" (LT)
D = 0° 15' 00.00"	D = 0° 15' 00.00"	D = 0° 15' 00.00"
L = 500.97'	L = 176.85'	L = 676.79'
T = 250.50'	T = 88.43'	T = 338.42'
R = 22,918.31'	R = 22,918.31'	R = 22,918.31'
PC Sta 266+44.34	PCC Sta 74+99.84	PRC Sta 76+76.69
PCC Sta 271+45.31	PRC Sta 76+76.69	PT Sta 83+53.48

-EBL-

PI Sta 268+95.33	PI Sta 75+88.00	PI Sta 80+14.84
Δ = 1° 14' 59.56" (LT)	Δ = 0° 26' 26.97" (LT)	Δ = 1° 41' 35.83" (RT)
D = 0° 15' 00.00"	D = 0° 15' 00.00"	D = 0° 15' 00.00"
L = 499.95'	L = 176.33'	L = 677.31'
T = 249.99'	T = 88.17'	T = 338.68'
R = 22,918.31'	R = 22,918.31'	R = 22,918.31'
PC Sta 266+45.35	PCC Sta 74+99.83	PRC Sta 76+76.16
PCC Sta 271+45.30	PRC Sta 76+76.16	PT Sta 83+53.48

☐ PAVED SHOULDER

NOTE: SEE PLAN SHEET 26 FOR EBL AND WBL PROFILE

ROADWAY DESIGN	HYDRAULIC DESIGN
NORTH CAROLINA PROFESSIONAL SEAL 17265 ENGINEER STEVEN ANTHONY ORDIN	NORTH CAROLINA PROFESSIONAL SEAL 18800 ENGINEER RANDALL C. HINSON
SIGNATURE 11/4/93 DATE	SIGNATURE 11-15-93 DATE

PRESENTED FOR REGISTRATION AND RECORDED

"STATE OF NORTH CAROLINA - COUNTY OF WAKE"

I, Sandra Gray, a Notary Public, do hereby certify that this is a true and correct copy of Plan Sheet 15 of the final plans for Project B-1610402, Addendum 11, as filed in the office of the Board of Transportation on file in the office of the Board of Transportation meeting. IN TESTIMONY WHEREOF, I have hereunto set my hand this the 14 day of February, 1994.

Sandra Gray
Notary Public

My Commission Expires 8-5-98

DEPARTMENT OF TRANSPORTATION
Sandra Gray
Custodian of Minutes of Board

REGISTER OF DEEDS
FORSYTH CO N.C.
Cathy Brower