

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	<b>B-4188</b>	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33535.1.1	BRZ-1523(5)	P.E.	
33535.2.1	BRZ-1523(5)	RW, UTIL	
33535.3.1	BRZ-1523(5)	CONST	

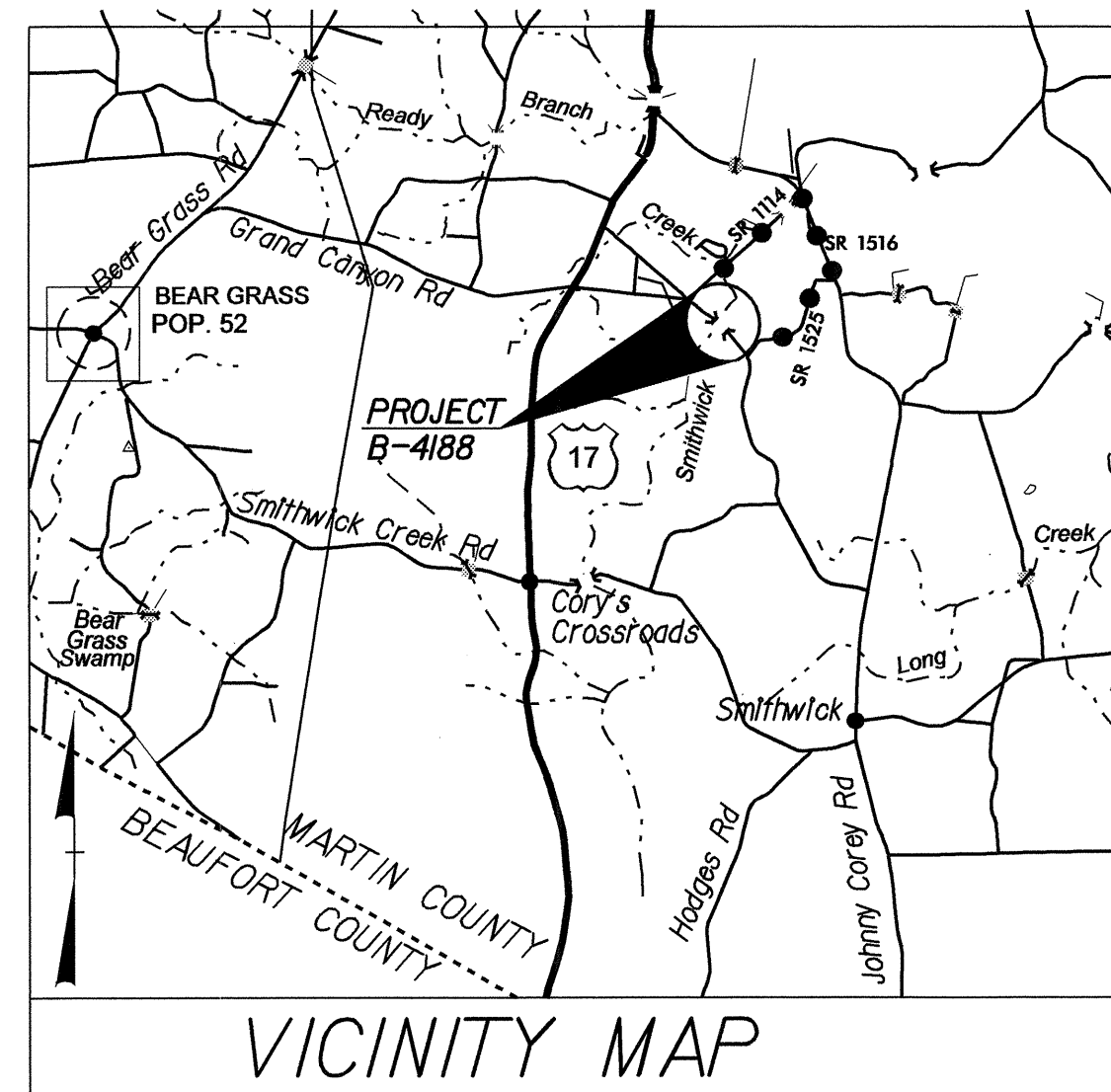
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**MARTIN COUNTY**

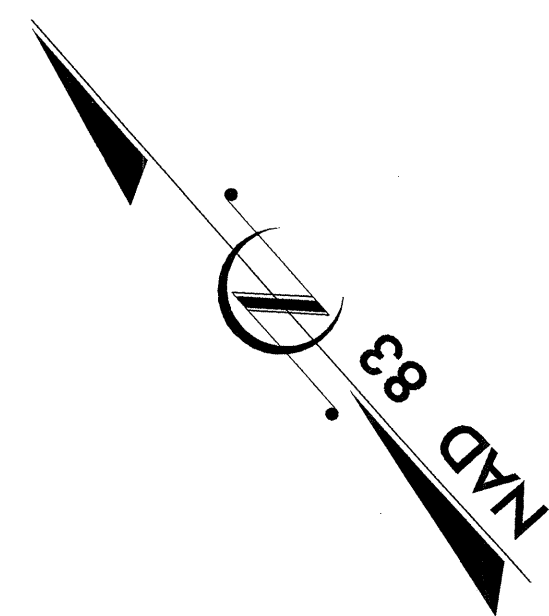
LOCATION: BRIDGE NO. 36 OVER SMITHWICK CREEK ON SR 1523

TYPE OF WORK: GRADING, DRAINAGE, STRUCTURE AND PAVING

See Sheet 1-A For Index of Sheets

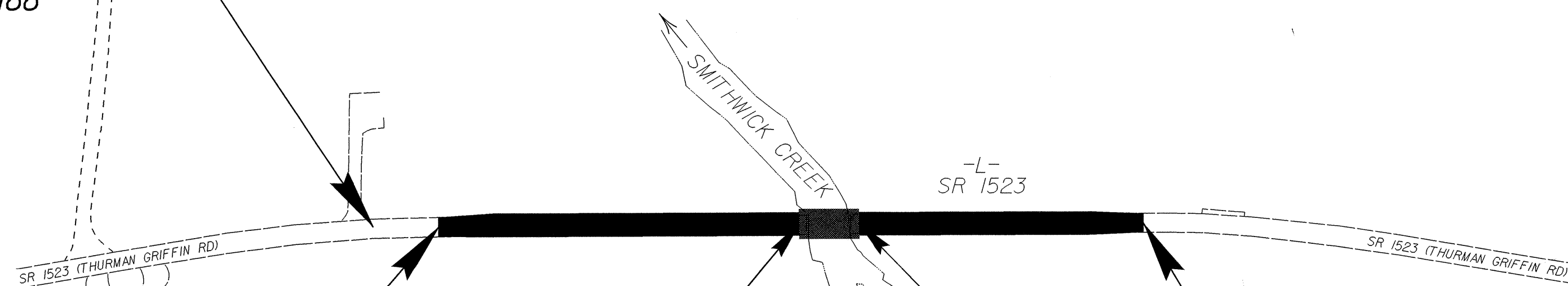


--- OFFSITE DETOUR



TO WILLIAMSTON

-L- STA.13+75.00 BEGIN  
CONSTRUCTION STATE  
PROJECT B-4188



BEGIN BRIDGE  
-L- STA 17+54.88

-L-  
SR 1523

END BRIDGE  
-L- STA 18+45.13

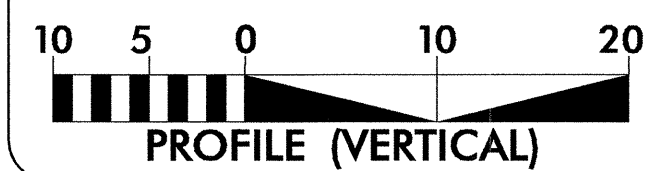
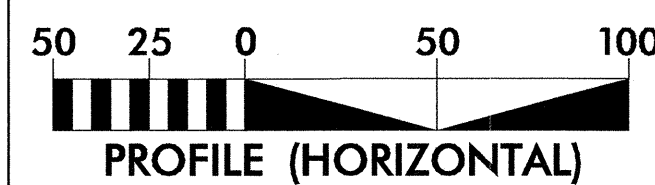
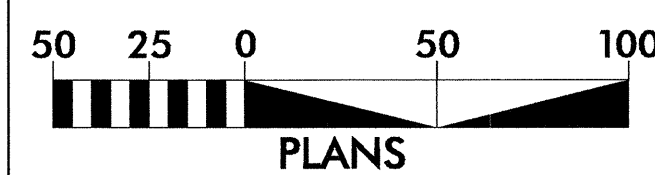
TO SMITHWICK

-L- STA.14+35.91 BEGIN STATE PROJECT B-4188

-L- STA.20+87.08 END STATE PROJECT B-4188

THERE IS NO CONTROL OF ACCESS ON THIS PROJECT  
DESIGN EXCEPTION REQUIRED FOR VERTICAL CURVE

GRAPHIC SCALES



DESIGN DATA

ADT 2005 = 552  
ADT 2025 = 900  
DHV = 10 %  
D = 60 %  
T = 4 % \*  
V = 60 MPH  
\* TTST 2 DUAL 2  
FUNC. CLASS = LOCAL

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4188 = 0.106 mi.  
LENGTH STRUCTURE TIP PROJECT B-4188 = 0.017 mi.  
TOTAL LENGTH OF TIP PROJECT B-4188 = 0.123 mi.

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:  
MARCH 18, 2005

LETTING DATE:  
AUGUST 15, 2006

JIMMY GOODNIGHT  
PROJECT ENGINEER

MARK HUSSEY  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER



ROADWAY DESIGN  
ENGINEER  
SIGNATURE: [Signature] P.E. 4-19-06

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

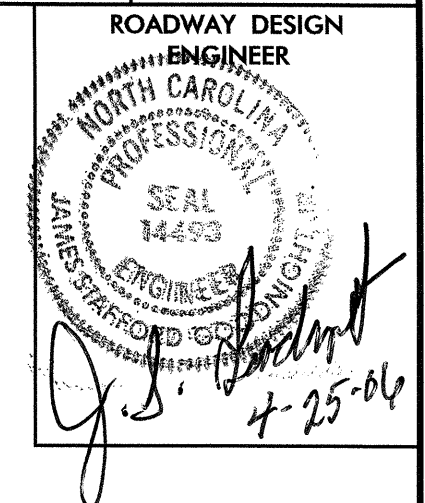
[Signature] P.E.  
STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION

APPROVED  
DIVISION ADMINISTRATOR DATE

TIP PROJECT: B-4188

CONTRACT: C201501



### INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
1-C	SURVEY CONTROL DATA SHEET
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
3-A	SUMMARY OF DRAINAGE QUANTITIES SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, ASPHALT PAVEMENT REMOVAL SUMMARY AND ASPHALT PAVEMENT BREAK-UP SUMMARY
4	PLAN SHEET
5	PROFILE SHEET
TCP-1 THRU TCP-3	TRAFFIC CONTROL PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
UC-1 thru UC-2	UTILITY CONSTRUCTION PLANS
X-1	CROSS SECTION SUMMARY SHEET
X-2 THRU X- 5	CROSS-SECTIONS
S-1 THRU S-	STRUCTURE PLANS

### GENERAL NOTES:

GRADE LINE:	
GRADING AND SURFACING:	THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED 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 III.
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.
UNDERDRAINS:	UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.
GUARDRAIL:	THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.
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.
END BENTS:	THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.
UTILITIES:	UTILITY OWNERS ON THIS PROJECT ARE  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 OTHERS.

### 2006 SPECIFICATIONS

REVISED:  
EFFECTIVE: 07-18-06

### 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	EFF.
<b>DIVISION 2 - EARTHWORK</b>		
200.03	Method of Clearing - Method III	EFF. 07-18-06
225.02	Guide for Grading Subgrade - Secondary and Local	
225.04	Method of Obtaining Superelevation - Two Lane Pavement	
<b>DIVISION 3 - PIPE CULVERTS</b>		
300.01	Method of Pipe Installation - Method 'A'	
<b>DIVISION 4 - MAJOR STRUCTURES</b>		
422.10	Reinforced Bridge Approach Fills	
<b>DIVISION 5 - SUBGRADE, BASES AND SHOULDERS</b>		
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I	
<b>DIVISION 8 - INCIDENTALS</b>		
815.03	Pipe Underdrain and Blind Drain	
816.04	Markers for Drainage Structure and Concrete Pad	
840.00	Concrete Base Pad for Drainage Structures	
840.14	Concrete Drop Inlet - 12" thru 30" Pipe	
840.15	Brick Drop Inlet - 12" thru 30" Pipe	
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15	
840.29	Frames and Narrow Slot Flat Grates	
840.35	Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates	
840.45	Precast Drainage Structure	
840.46	Traffic Bearing Precast Drainage Structure	
840.66	Drainage Structure Steps	
840.72	Pipe Collar	
846.01	Concrete Curb, Gutter and Curb & Gutter	
846.04	Drop Inlet Installation in Shoulder Berm Gutter	
862.01	Guardrail Placement	
862.02	Guardrail Installation	
862.03	Structure Anchor Units	
876.02	Guide for Rip Rap at Pipe Outlets	

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	○ EIP
Property Corner	-----
Property Monument	□ EDM
Parcel/Sequence Number	⑫③
Existing Fence Line	-----
Proposed Woven Wire Fence	-----
Proposed Chain Link Fence	-----
Proposed Barbed Wire Fence	-----
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing High Quality Wetland Boundary	----- HO WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB

## 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	-----
River Basin Buffer	----- RBB
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Swamp Marsh	⊕
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

## RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ CSX TRANSPORTATION MILEPOST 35
Switch	□ 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	----- E
Proposed Temporary Construction Easement	----- E
Proposed Temporary Drainage Easement	----- TDE
Proposed Permanent Drainage Easement	----- PDE
Proposed Permanent Utility Easement	----- PUE

## ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Wheel Chair Ramp	○ WCR
Curb Cut for Future Wheel Chair Ramp	○ CCFR
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	----- Vineyard

## EXISTING STRUCTURES:

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

## 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	----- P
Designated U/G Power Line (S.U.E.*)	----- P

## 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	----- T
Designated U/G Telephone Cable (S.U.E.*)	----- T
Recorded U/G Telephone Conduit	----- TC
Designated U/G Telephone Conduit (S.U.E.*)	----- TC
Recorded U/G Fiber Optics Cable	----- T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	----- T FO

## WATER:

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

## TV:

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

## GAS:

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

## SANITARY SEWER:

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

## MISCELLANEOUS:

Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	----- RUTL
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.

# SURVEY CONTROL SHEET B-4188

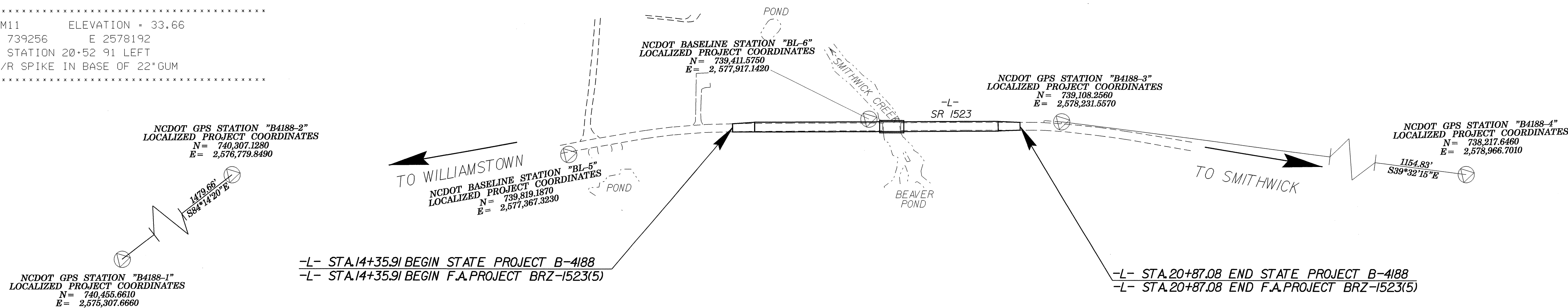
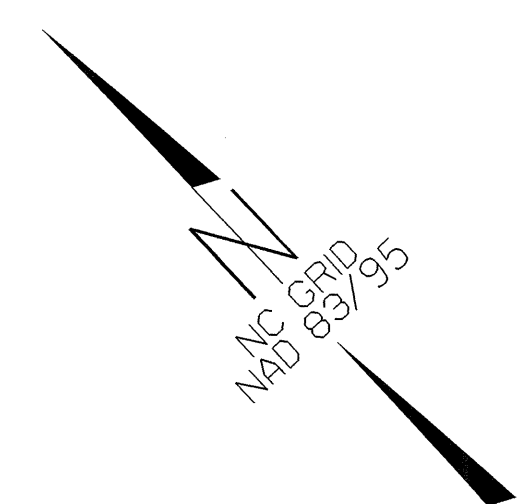
### CONTROL DATA

BL	POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
BL1		(GPS B4188-1)	740455.6610	2575307.6660	51.78	OUTSIDE PROJECT LIMITS	
BL2		(GPS B4188-2)	740307.1280	2576779.8490	49.32	OUTSIDE PROJECT LIMITS	
BL5		(BL-5)	739819.1870	2577367.3230	39.93	10+58.61	14.65 RT
BL6		(BL-6)	739411.5750	2577917.1420	22.01	17+44.52	17.28 LT
BL3		(GPS B4188-3)	739108.2560	2578231.5570	32.08	21+80.50	12.89 LT
BL4		(GPS B4188-4)	738217.6460	2578966.7010	40.16	OUTSIDE PROJECT LIMITS	

### BENCHMARK DATA

\*\*\*\*\*  
 BM10 ELEVATION = 37.46  
 N 739771 E 2577557  
 L STATION 12+42 49 LEFT  
 R/R SPIKE IN BASE OF 16" GUM  
 \*\*\*\*\*

\*\*\*\*\*  
 BM11 ELEVATION = 33.66  
 N 739256 E 2578192  
 L STATION 20+52 91 LEFT  
 R/R SPIKE IN BASE OF 22" GUM  
 \*\*\*\*\*



### DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B4188-2" WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 740,307.128(ft) EASTING: 2,576,779.849(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99991625 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B4188-2" TO -L- STATION 14+35.91 IS S 52°11'58" E 1,138.62 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88

### NOTES:

THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING [HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project)

FILE: b4188\_ls\_control\_041026.txt

SITE CALIBRATION PARAMETERS HAVE NOT BEEN DETERMINED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

⊕ INDICATES GEODETIC CONTROL MONUMENTS USED OR SET FOR HORIZONTAL PROJECT CONTROL BY THE NCDOT LOCATION AND SURVEYS UNIT.

PROJECT CONTROL ESTABLISHED UTILIZING GLOBAL POSITIONING SYSTEM.

NETWORK FOR GPS "B4027-1" ESTABLISHED FROM NGS ONLINE POSITIONING USER SERVICE (OPUS)

**NOTE: DRAWING NOT TO SCALE**

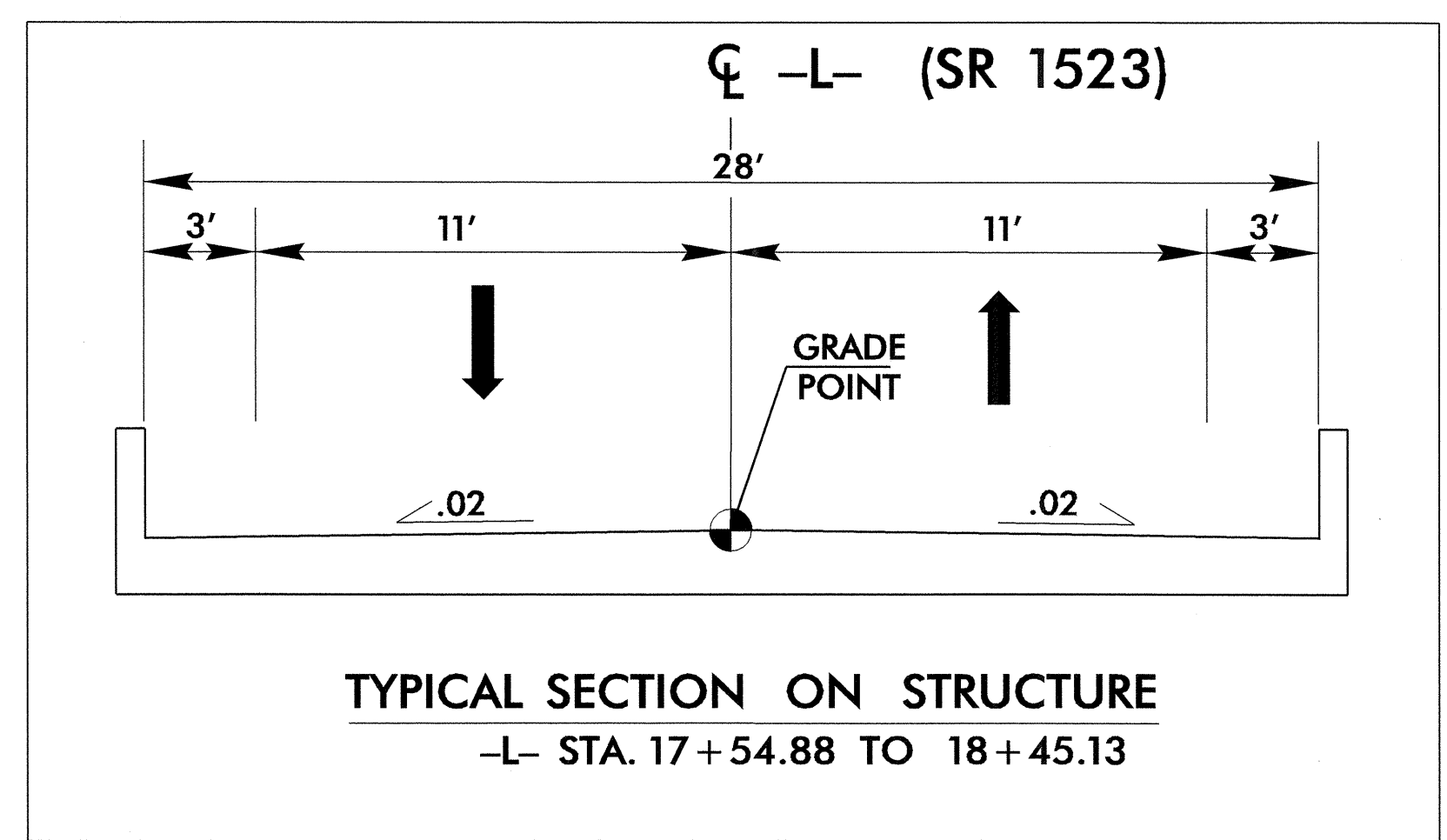
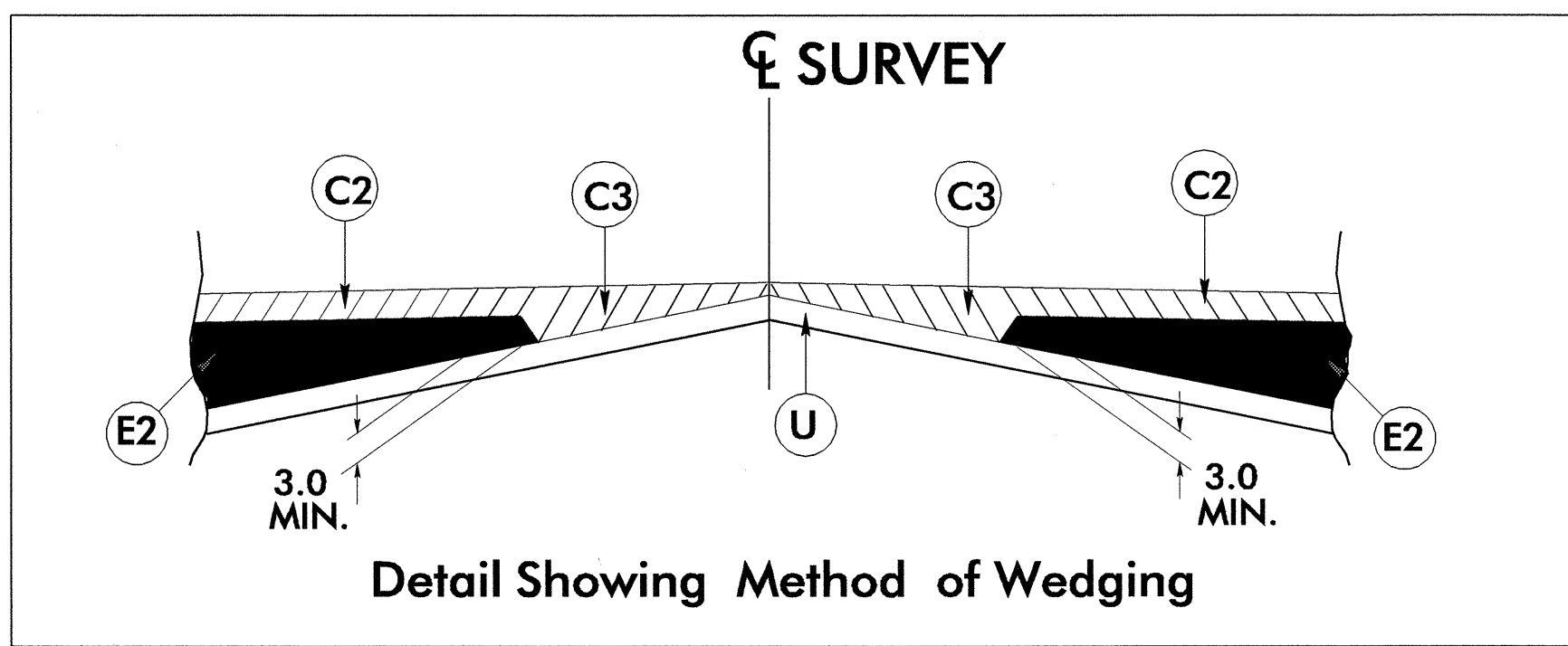
8/17/99

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 Reason AT RD223244

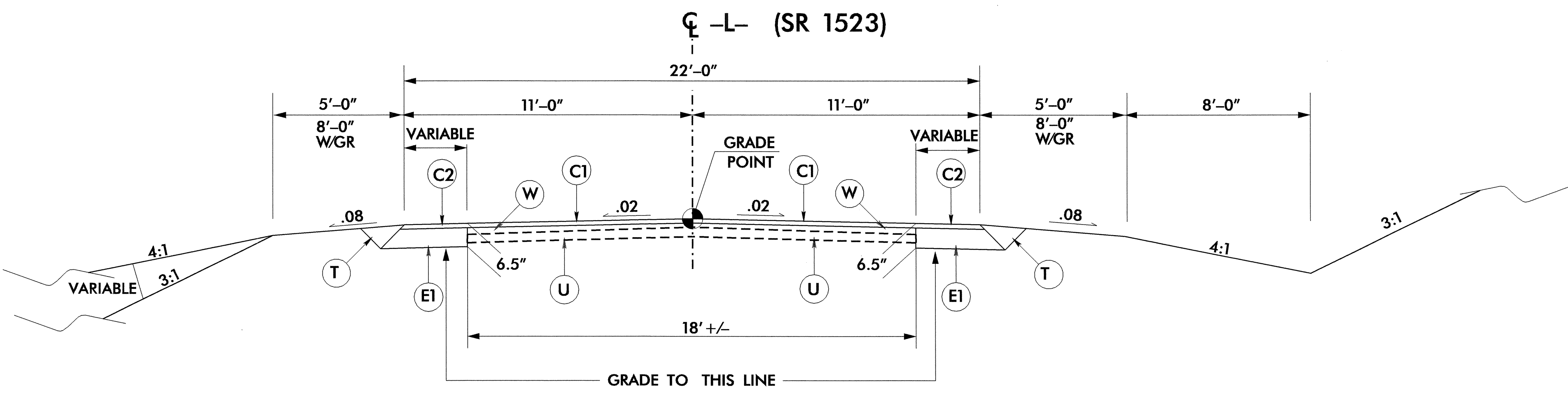
PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD.
C2	PROP. APPROX. 2 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" 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 5 1/2" IN DEPTH.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL)

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

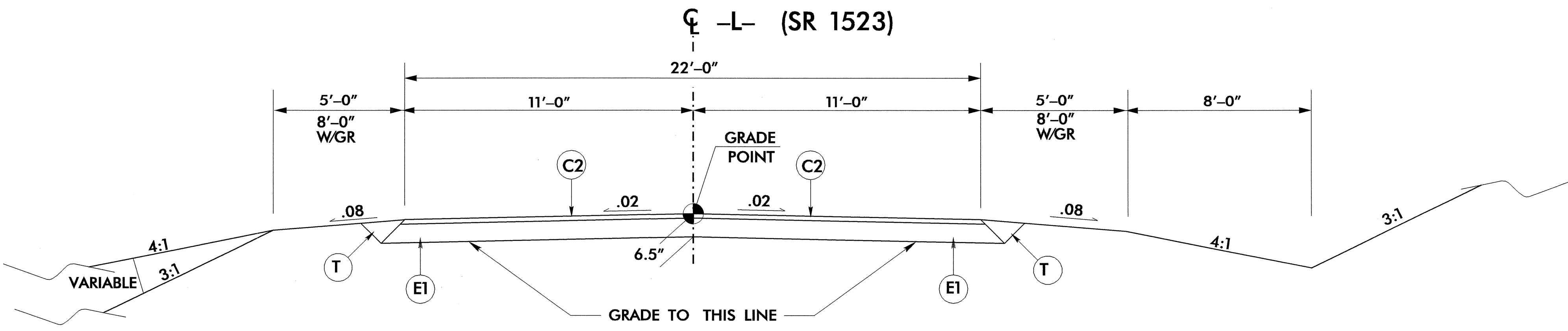
PROJECT REFERENCE NO. B-4188	SHEET NO. 2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER SEAL 14493 JAMES STAFFORD	PAVEMENT DESIGN ENGINEER SEAL 13368 JIM CHEN



USE TYPICAL SECTION NO. 1  
 -L- STA. 14+35.91 TO -L- STA. 16+50.00  
 -L- STA. 19+50.00 TO -L- STA. 20+87.08



TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2  
 -L- STA. 16+50.00 TO BEG. BRIDGE 17+54.88  
 -L- END BRIDGE 18+45.13 TO -L- STA. 19+50.00

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201501

Table with 5 columns: ItemNumber, Sec #, Quantity, Unit, Description. Lists various construction items like mobilization, bridge approach fill, grading, excavation, drainage, etc.

Table with 5 columns: ItemNumber, Sec #, Quantity, Unit, Description. Lists various construction items like shoulder berm gutter, steel guardrail, additional guardrail posts, etc.

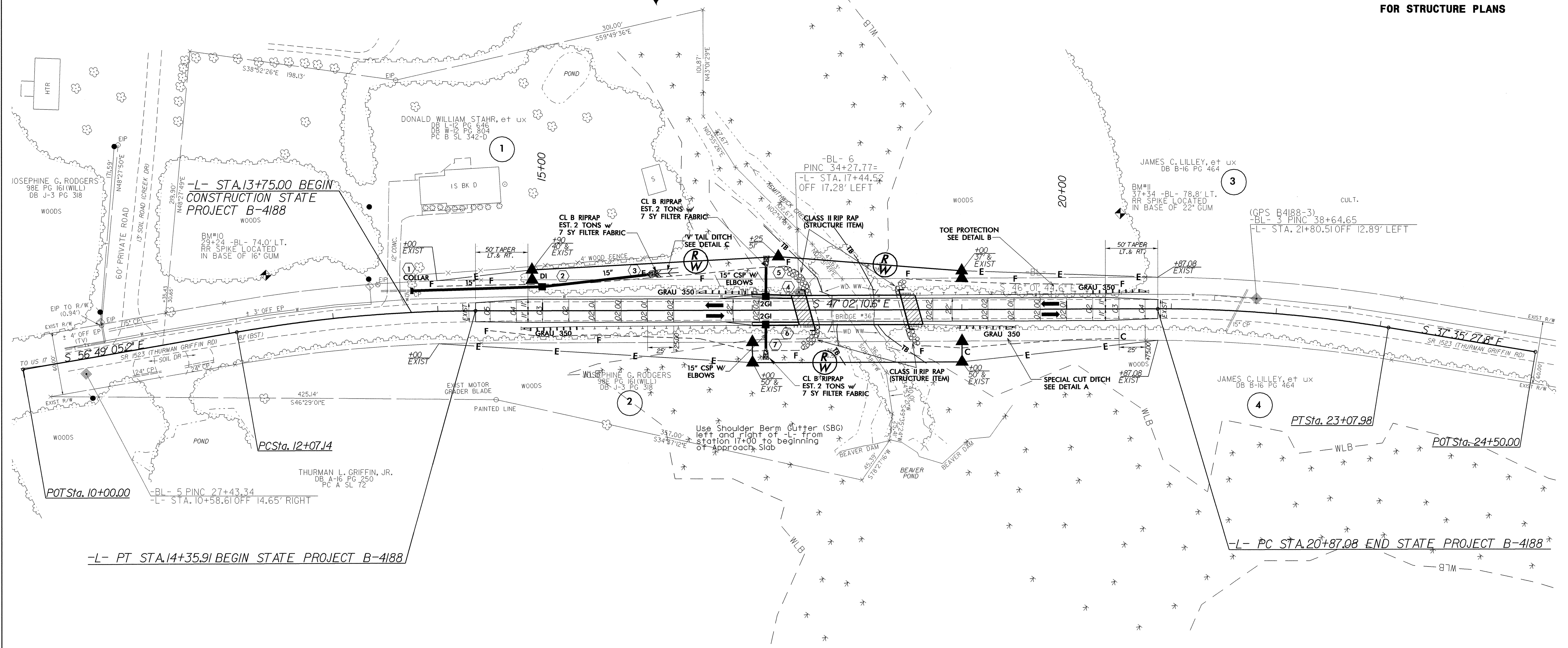
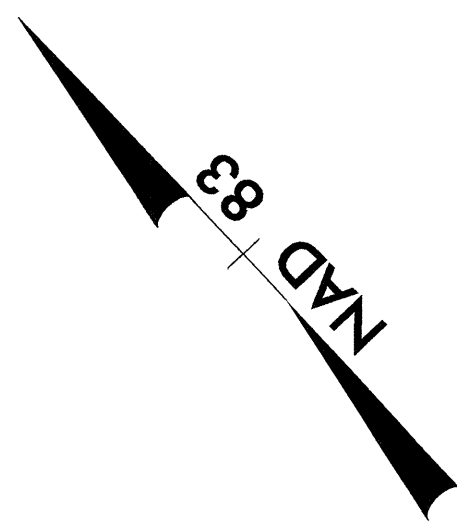
Table with 5 columns: ItemNumber, Sec #, Quantity, Unit, Description. Lists various construction items like seed for repair seeding, fertilizer for repair seeding, etc.

Table with 5 columns: ItemNumber, Sec #, Quantity, Unit, Description. Contains schedule alternates for RC pipe culverts, HDPE pipe culverts, and aluminumized corrugated steel pipe culverts.

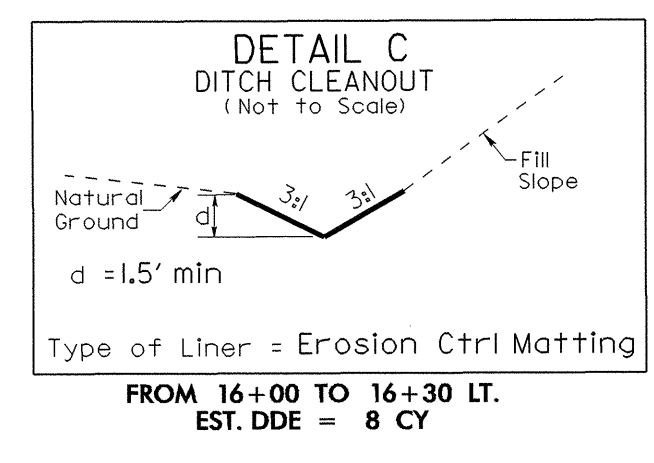
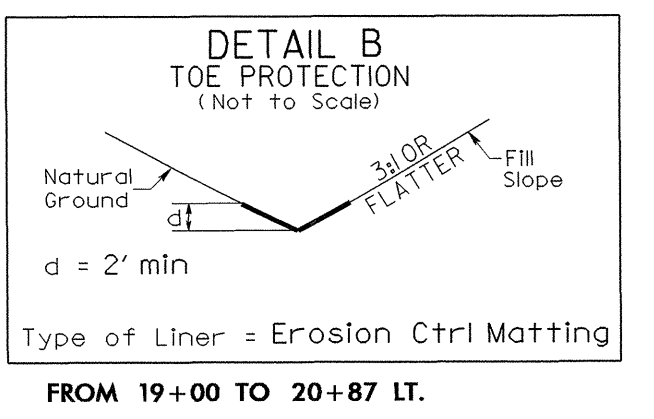
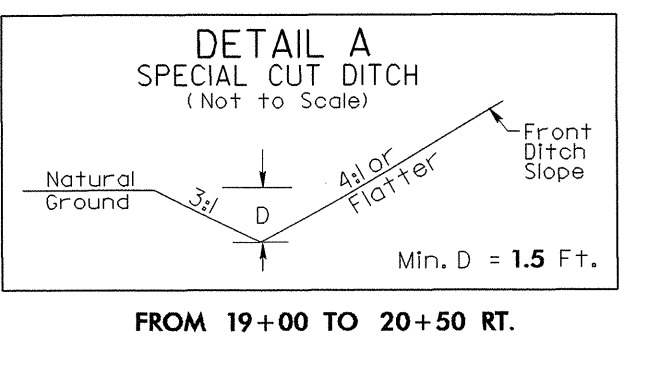
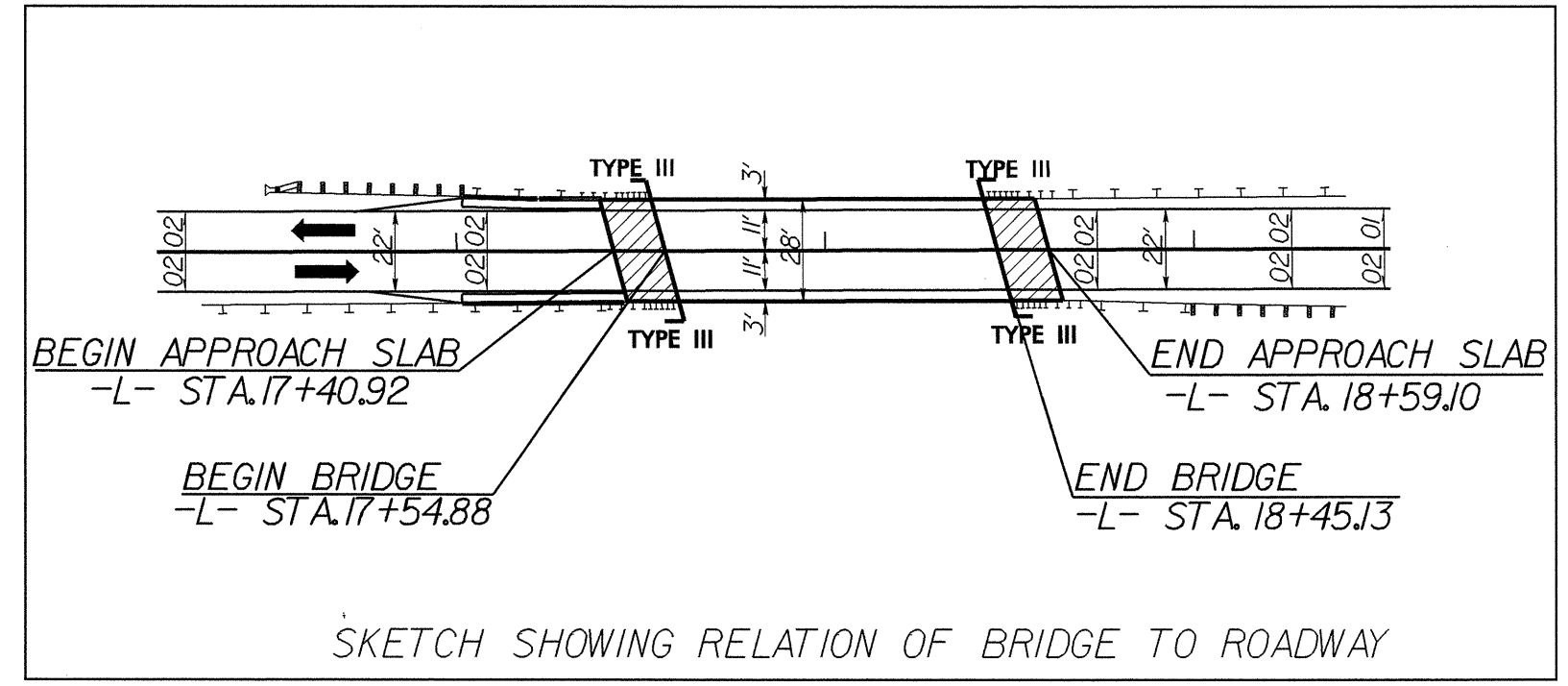


SEE SHEET 5 FOR PROFILE  
SEE SHEET S-1 THRU S-  
FOR STRUCTURE PLANS

-L-	
PI Sta 13+21.81	PI Sta 21+97.78
$\Delta = 9^{\circ} 46' 54.5" (RT)$	$\Delta = 9^{\circ} 26' 42.8" (RT)$
$D = 4' 16' 32.9"$	$D = 4' 16' 32.9"$
$L = 228.77'$	$L = 220.90'$
$T = 114.66'$	$T = 110.70'$
$R = 1,340.00'$	$R = 1,340.00'$



REVISIONS





5/14/99

10-APR-2006 11:17 10-4188-rdy-pl.dgn

PROJECT REFERENCE NO. B-4188	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NOTE: SEE PLAN SHEET 4 FOR PLANS

-L-

BEGIN GRADE  
-L- STA. 14+35.91  
EL. 30.05'  
INCLUDES 1.25"  
RESURFACING

\*DESIGN EXCEPTION REQUIRED FOR VERTICAL  
CURVE K FACTOR  
V=50MPH

END GRADE  
-L- STA. 20+87.08  
EL. 29.31'  
INCLUDES 1.25"  
RESURFACING

PI = 16+00.00  
EL = 25.13'  
VC = 280'  
\*K = 85

PI = 19+80.00  
EL = 26.32'  
VC = 210'  
\*K = 85

BEGIN BRIDGE  
STA. 17+54.88

END BRIDGE  
STA. 18+45.13

(-)2.9984%

(+)0.3129%

(+)2.7933%

BEG DITCH GRADE RT  
STA 19+00  
EL = 21.50

PI STA 19+50  
EL 23.5

END DITCH GRADE RT  
STA 20+50 EL = 25.50

BM#10  
29+24 -BL- 74.0' LT.  
RR SPIKE LOCATED  
IN BASE OF 16" GUM

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 1200 CFS
DESIGN FREQUENCY	= 25 YRS
DESIGN HW ELEVATION	= 22.3 FT
BASE DISCHARGE	= 1900 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 24.6 FT
OVERTOPPING DISCHARGE	= 2300 CFS
OVERTOPPING FREQUENCY	= 100+ YRS
OVERTOPPING ELEVATION	= 25.2 FT

BM#11  
37+34 -BL- 78.8' LT.  
RR SPIKE LOCATED  
IN BASE OF 22" GUM