

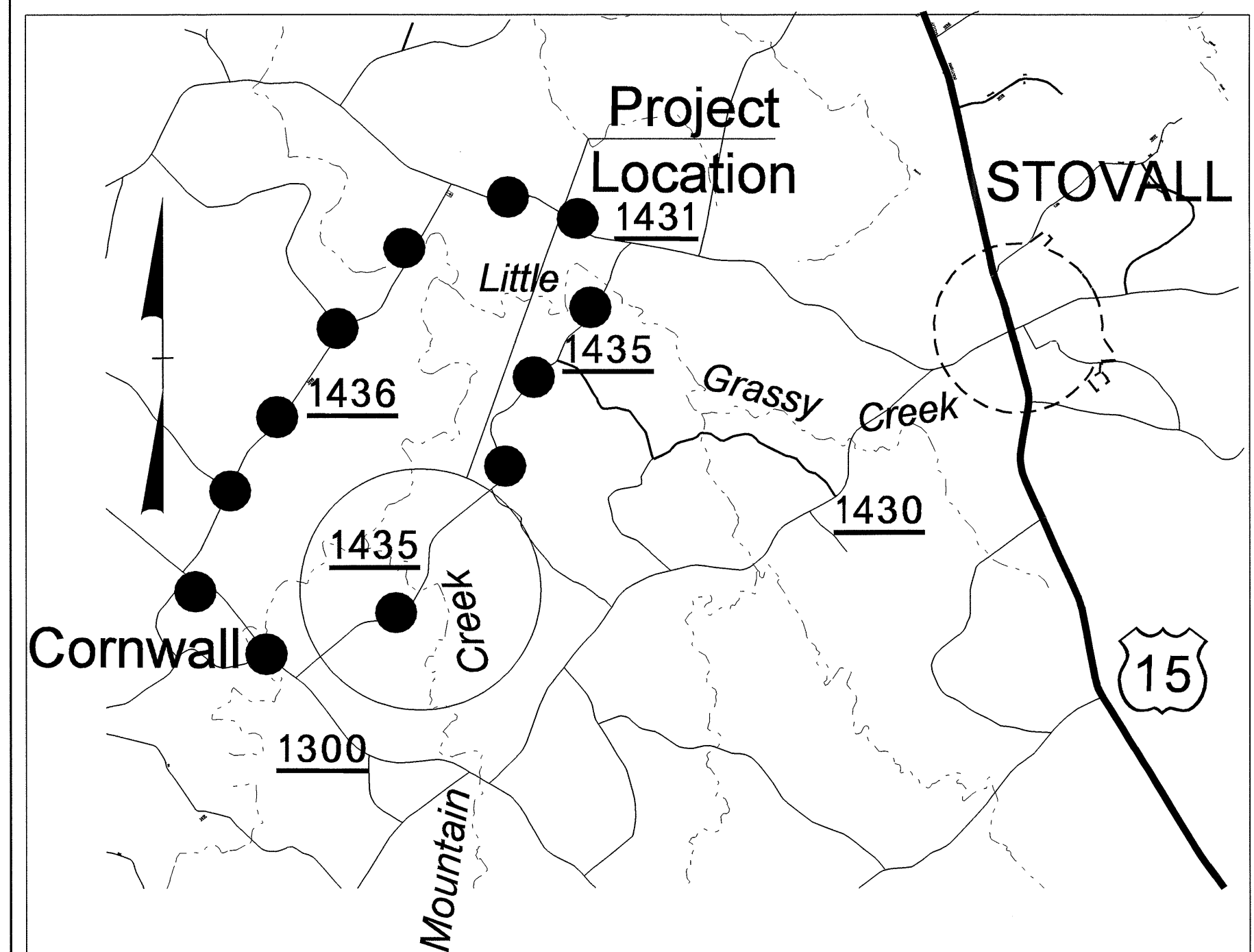
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4526	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33750.1.1	BRZ-1435(4)	PE	
33750.2.1	BRZ-1435(4)	R/W & Utilities	
33750.3.1	BRZ-1435(4)	Construction	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

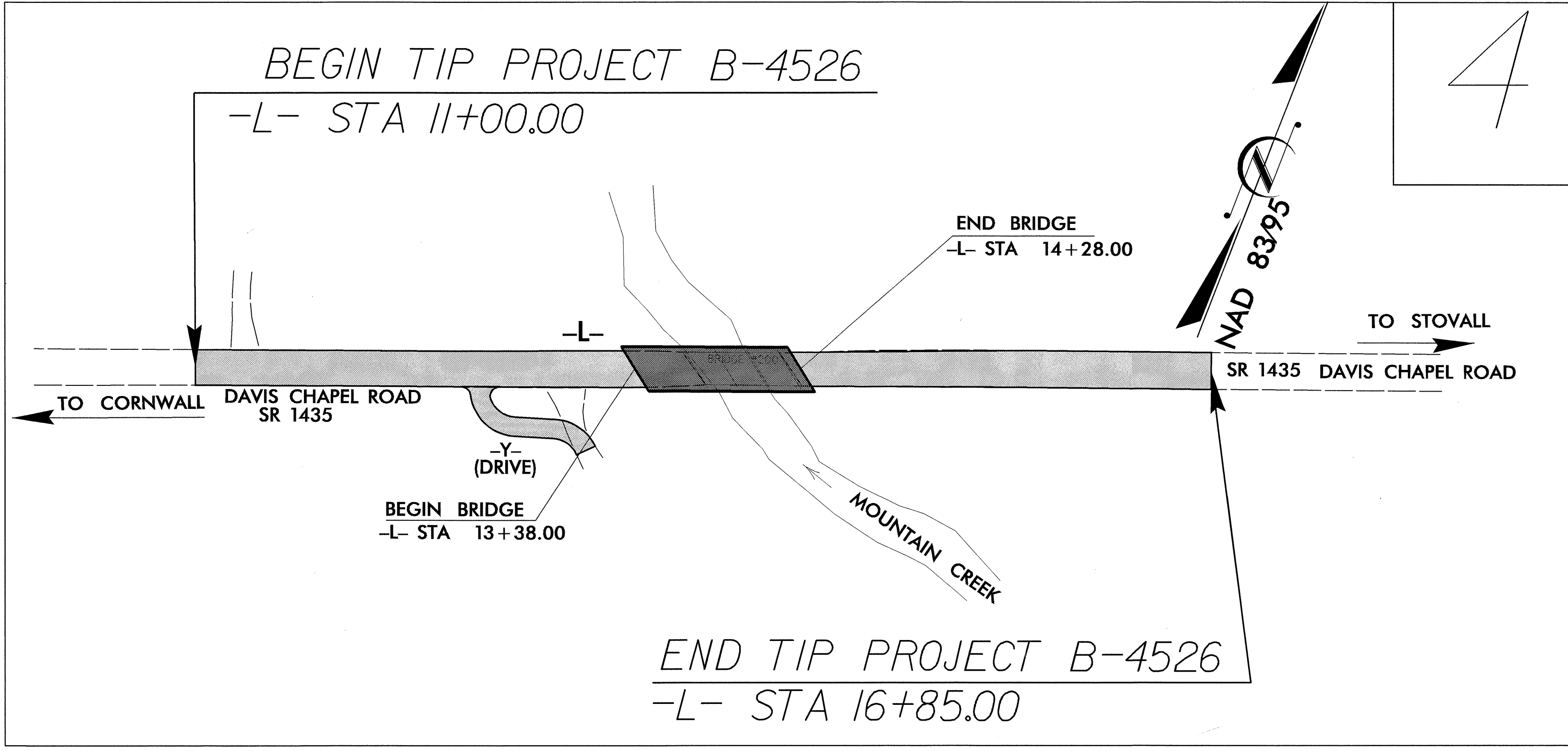
GRANVILLE COUNTY

LOCATION: Bridge #200 over Mountain Creek on SR 1435, Davis Chapel Road

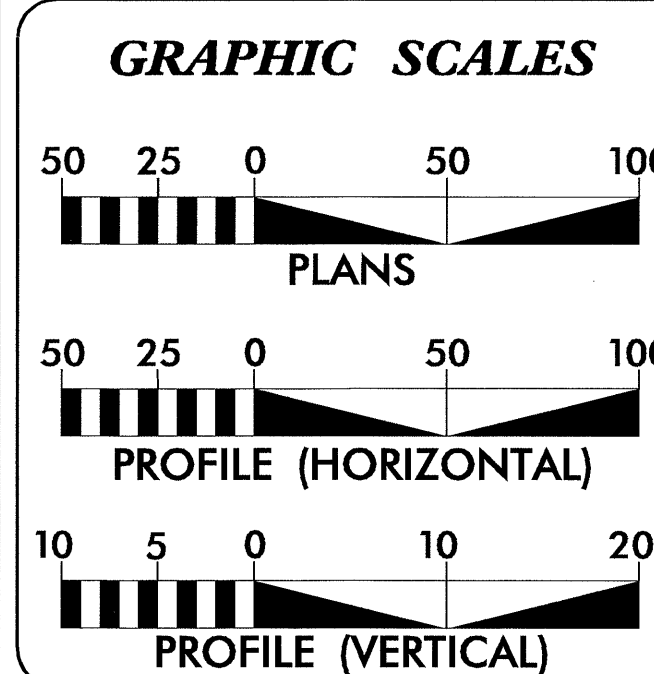
TYPE OF WORK: Grading, Paving, Drainage and Structure



Offsite Detour Route ●—●—●



DESIGN EXCEPTION REQUIRED FOR SAG VERTICAL CURVE K FACTOR AND STOPPING SIGHT DISTANCE



DESIGN DATA

ADT 2007 =	60 vpd
ADT 2030 =	110 vpd
DHV =	13 %
D =	60 %
T =	3 % *
V =	55 MPH
* TTST 1%	* DUAL 2%

PROJECT LENGTH

Length Roadway TIP Project B-4526 =	0.094 Miles
Length Structure TIP Project B-4526 =	0.017 Miles
Total Length TIP Project B-4526 =	0.111 Miles

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
November 1, 2007

LETTING DATE:
November 18, 2008

James Speer, PE
PROJECT ENGINEER

John Lansford, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SEAL 25472

ENGINEER

JOHN C. LANSFORD

SIGNATURE: *John C. Lansford* P.E. 8/19/08

ROADWAY DESIGN ENGINEER

SEAL 25472

ENGINEER

JOHN C. LANSFORD

SIGNATURE: *John C. Lansford* P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

John C. Lansford P.E.
STATE HIGHWAY DESIGN ENGINEER

CONTRACT: C201975
 TIP PROJECT: B-4526
 05-AUG-2008 13:58
 R:\ROADWAY\PROJECTS\B4526_rdy_tsh.dgn
 \$\$\$USERNAME\$\$\$

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	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	-----
Disappearing Stream	-----
Spring	○
Wetland	-----
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	-----
Proposed Wheel Chair Ramp Curb Cut	-----
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:

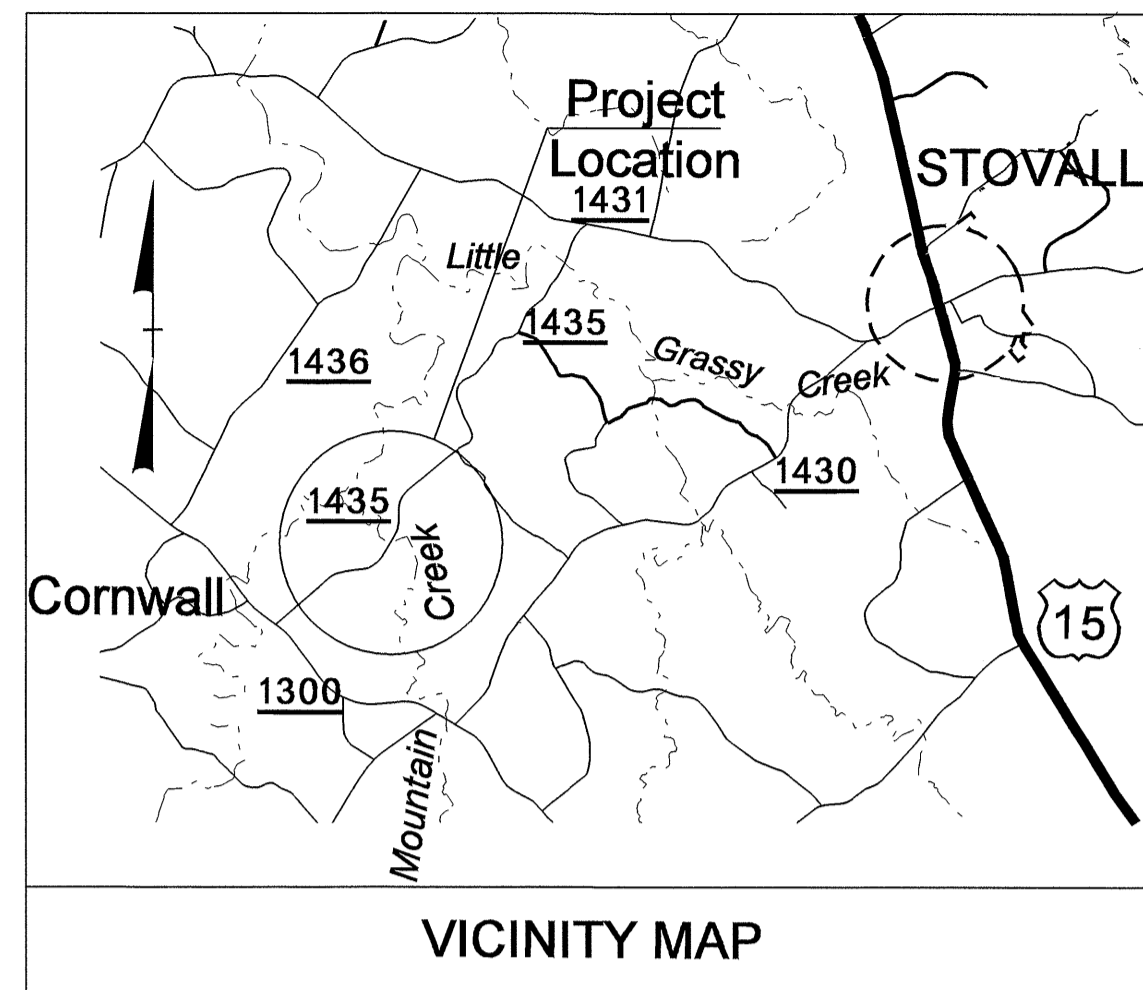
Utility Pole	●
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
A/G Tank; Water, Gas, Oil	□
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

SURVEY CONTROL SHEET B-4526

GRANVILLE COUNTY

**LOCATION: BRIDGE NO. 200 OVER MOUNTAIN CREEK
AND APPROACHES ON SR 1435 (DAVIS CHAPEL RD.)**

B-4526

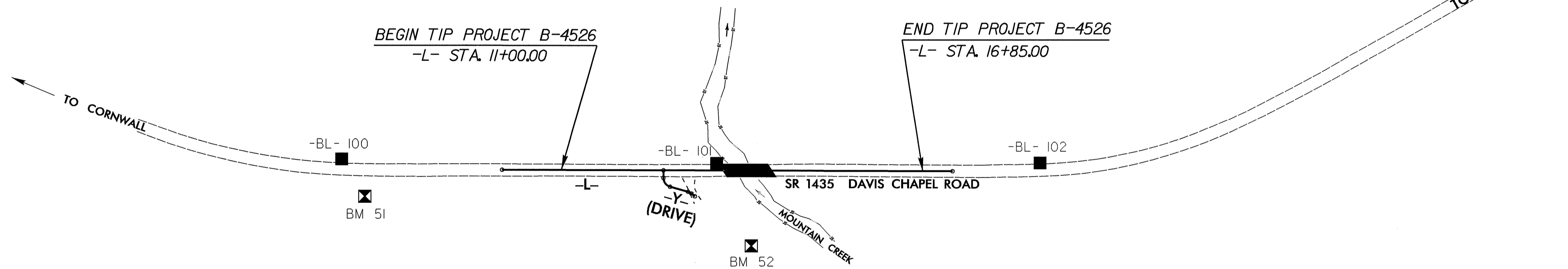


NCDOT GPS STATION B4526-2
LOCALIZED PROJECT COORDINATES

NCDOT GPS STATION B4526-1
LOCALIZED PROJECT COORDINATES

N=989458.8902
E=2106813.3873

N=989399.1334
E=2105840.1420



BASELINE POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
100	BL-100	988061.7720	2103734.0690	392.78	OUTSIDE PROJECT LIMITS	
101	BL-101	988273.5830	2104299.4150	364.37	13+45.45	11.45 LT
102	BL-102	988462.6790	2104784.3910	363.47	OUTSIDE PROJECT LIMITS	

.....
 BM51 ELEVATION = 391.83
 N 988019 E 2103791
 L STATION 10+00
 S 57° 46' 10.9" W DIST 225.10
 RR SPIKE IN 13" PINE

 BM52 ELEVATION = 359.52
 N 988170 E 2104400
 L STATION 14+02 121 RIGHT
 RR SPIKE IN 15" SWEET GUM

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B4526-1"
 WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF
 NORTHING: 989399.1334(ft) EASTING: 2105840.1420(ft)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 1.00008342
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B4526-1" TO -L- STATION 10+00.00 IS
 S 55°51'56.3" W 2245.95'
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:
[HTTP://WWW.DOH.DOT.STATE.NC.US/PRECONSTRUCT/HIGHWAY/LOCATION/PROJECT/B4526_ls_control_060410.txt](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project/B4526_ls_control_060410.txt)

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED 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 USING GLOBAL POSITIONING SYSTEM.
 NETWORK ESTABLISHED FROM NGS ONLINE POSITIONING SERVICE (OPUS)

NOTE: DRAWING NOT TO SCALE

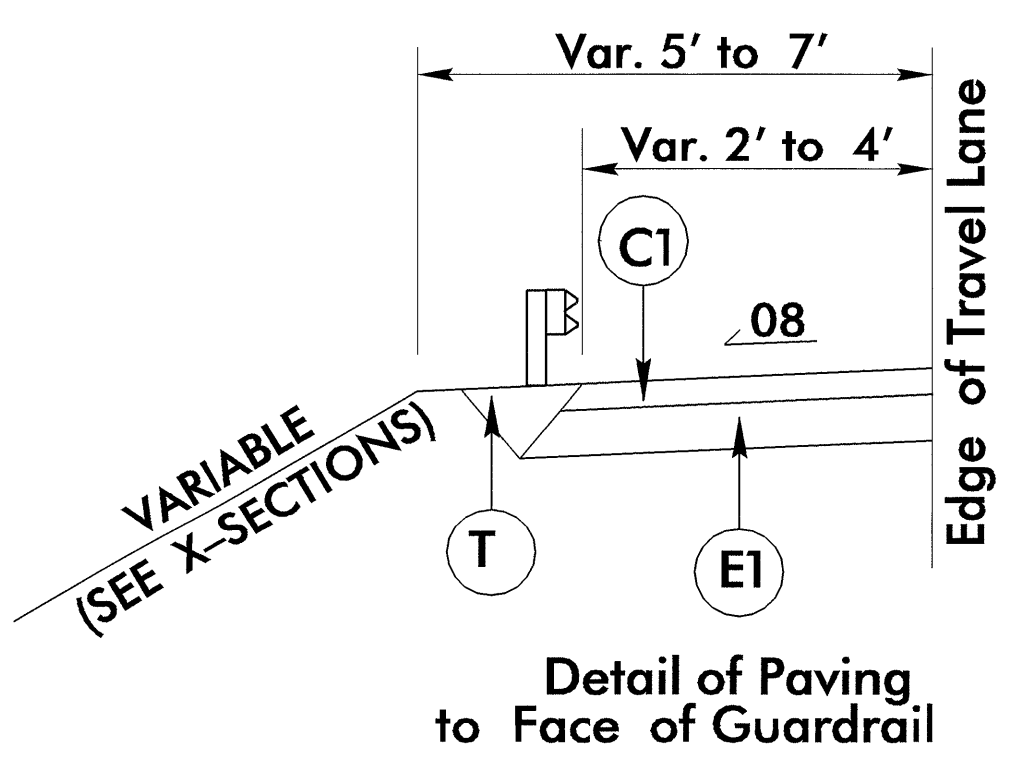
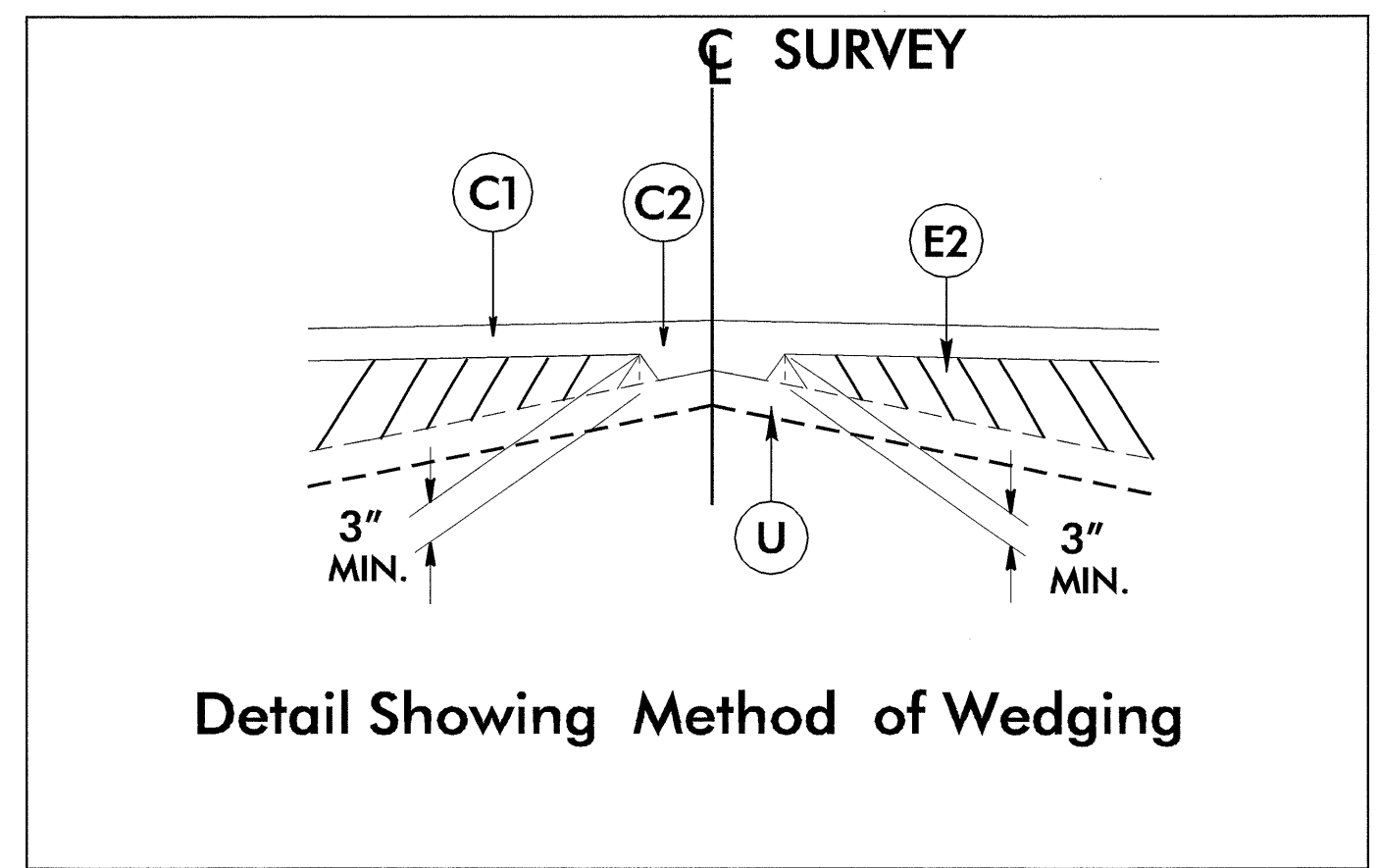
8/17/99

05-AUG-2008 14:36
 5:58 PM C:\PROJECTS\B4526-RDY-TYP\jldnsf\RD-Oce34.dgn

PAVEMENT SCHEDULE

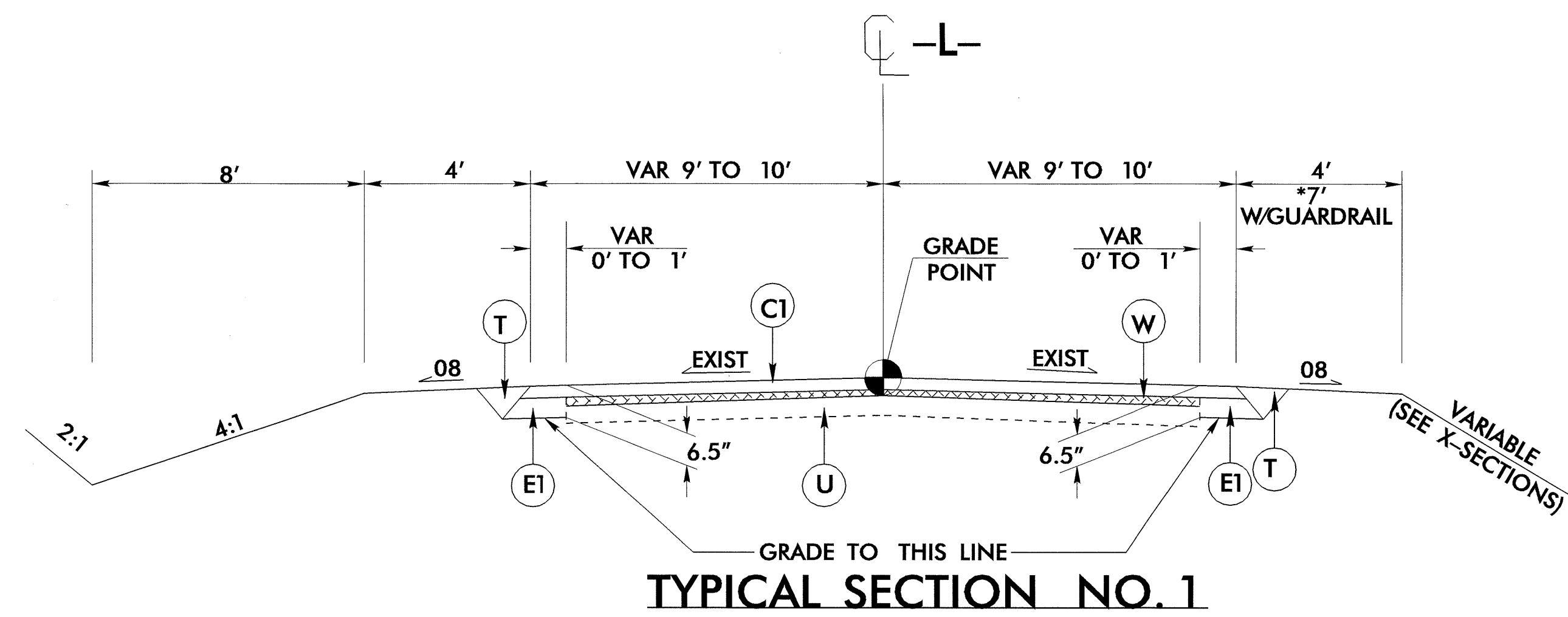
C1	PROP. APPROX. 2½" ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 137.5 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF9.5A, AT AN AVERAGE RATE OF 110 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
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 5½" IN DEPTH.
J	6" AGGREGATE BASE COURSE
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.
W	ASPHALT WEDGING (SEE DETAIL)

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

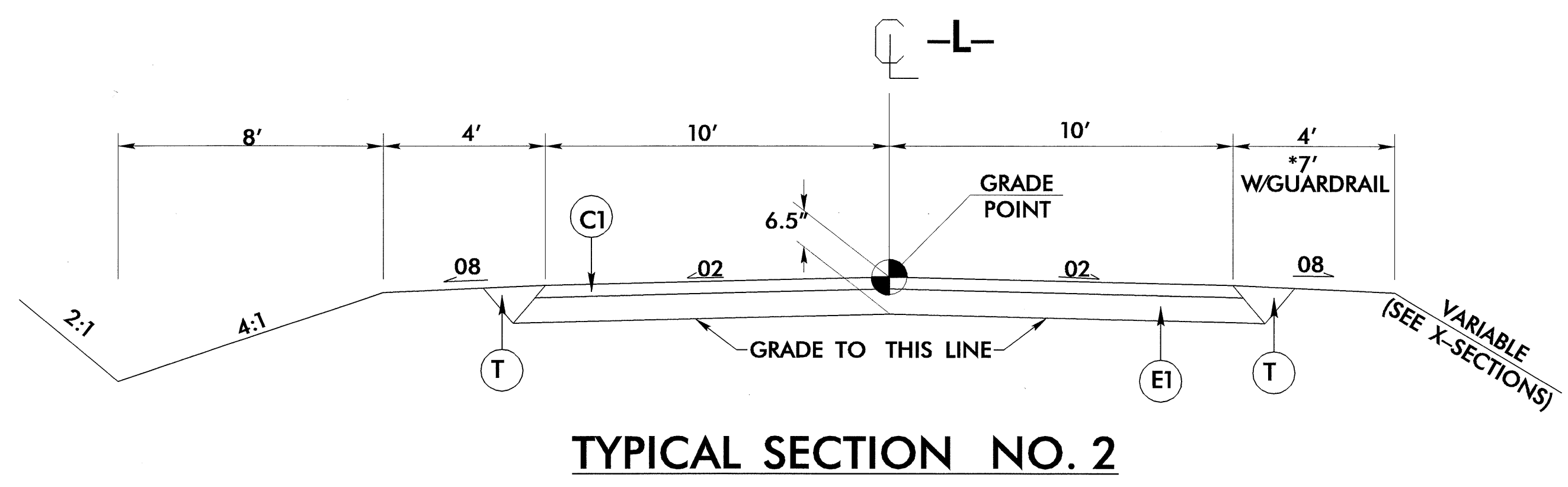


USE WITH TYPICAL SECTION #2

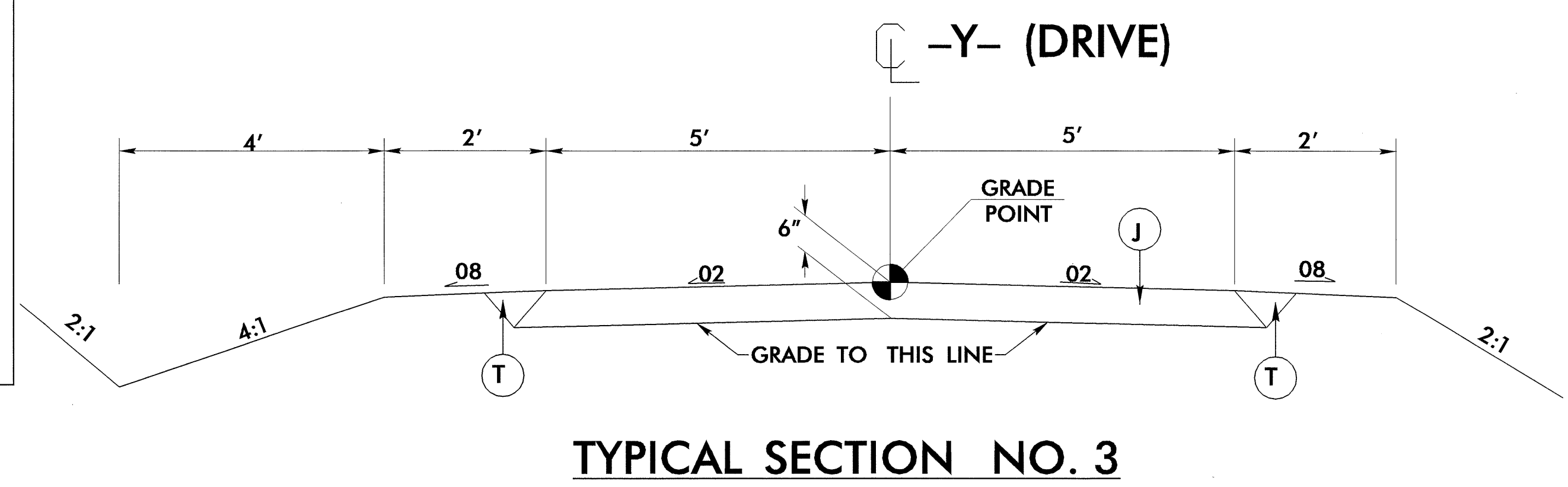
PROJECT REFERENCE NO. B-4526	SHEET NO. 2
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL JOHN C. LANSFORD 8/25/08	PAVEMENT DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL CLARK S. MORRISON 8/25/08



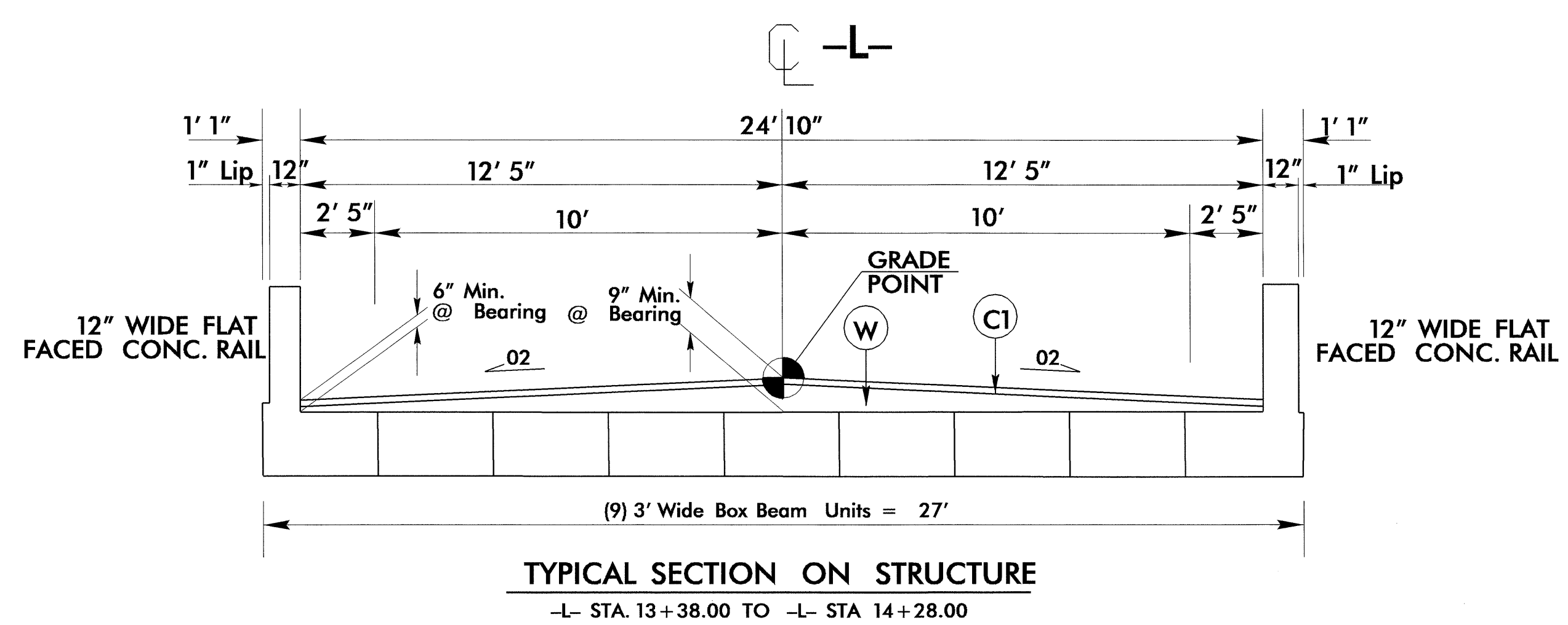
USE TYPICAL SECTION NO. 1:
 -L- STA 11+00.00 TO 12+00.00
 -L- STA 15+50.00 TO 16+85.00



USE TYPICAL SECTION NO. 2:
 -L- STA 12+00.00 TO -L- STA 13+38.00 BEGIN BRIDGE
 -L- STA 14+28.00 END BRIDGE TO -L- STA 15+50.00



USE TYPICAL SECTION NO. 3:
 -Y- STA 10+10.00 to -Y- STA. 10+85.00

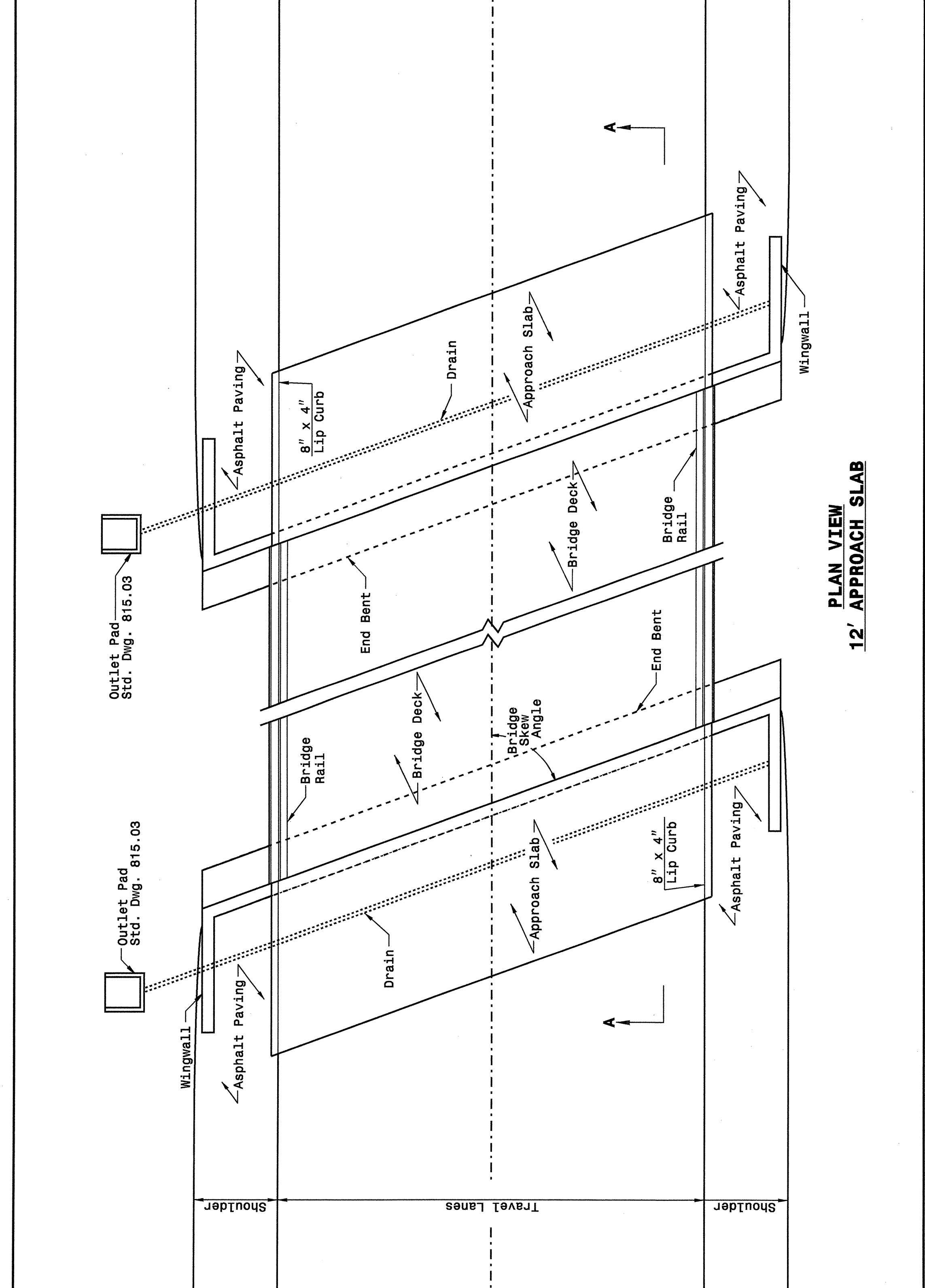


-L- STA. 13+38.00 TO -L- STA 14+28.00

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER

SHEET 1 OF 2
422D11



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

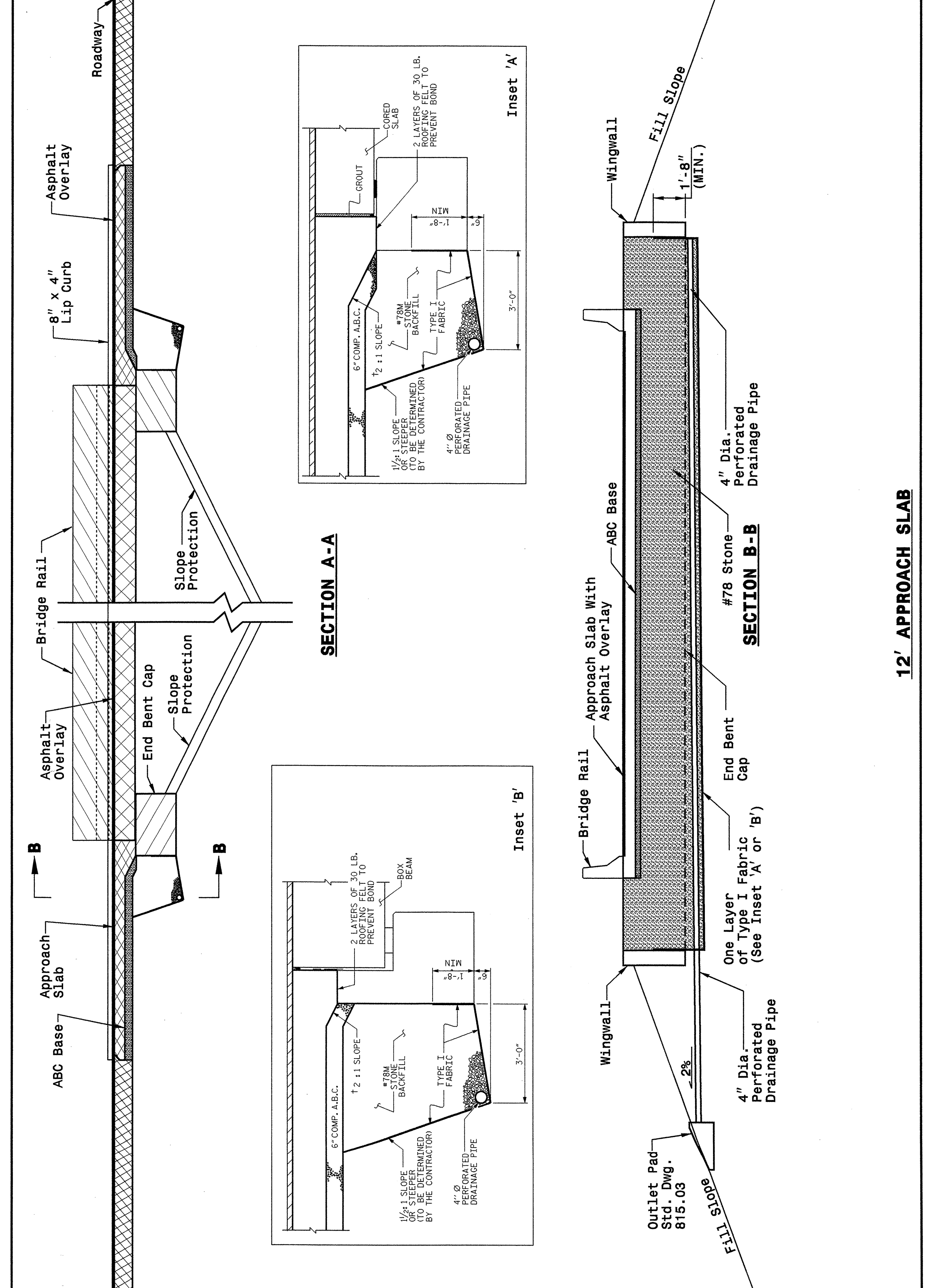
ENGLISH DETAIL DRAWING FOR
BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER

SHEET 1 OF 2
422D11

STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER

SHEET 2 OF 2
422D11



STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER

SHEET 2 OF 2
422D11

26-JUN-2008 15:32
s:\projects\con\projects\special details\kempf\english\bridge approach fill.dgn
kempf AT PS237489



**PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN**
Office 919-250-4128 FAX 919-250-4119

BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER

ORIGINAL BY: K. A. Kempf DATE: 6-10-08
MODIFIED BY: *Joe S. Kempf* DATE: *4/27/08*
CHECKED BY: *Joe S. Kempf* DATE: *4/27/08*
FILE SPEC.: kempf\english\bridge approach fills.dgn

5/14/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201975

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0030000000-N	SP	Lump Sum		BRIDGE APPROACH FILL - SUB REGIONAL TIER, STATION ***** (13+83.00)
0043000000-N	226	Lump Sum		GRADING
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING
0057000000-E	226	200	CY	UNDERCUT EXCAVATION
0195000000-E	265	200	CY	SELECT GRANULAR MATERIAL
0196000000-E	270	200	SY	FABRIC FOR SOIL STABILIZATION
0318000000-E	300	12	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
0366000000-E	310	24	LF	15" RC PIPE CULVERTS, CLASS III
0708000000-E	310	24	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK
0995000000-E	340	20	LF	PIPE REMOVAL
1121000000-E	520	35	TON	AGGREGATE BASE COURSE
1220000000-E	545	100	TON	INCIDENTAL STONE BASE
1489000000-E	610	180	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
1525000000-E	610	350	TON	ASPHALT CONC SURFACE COURSE, TYPE SP9.5A
1560000000-E	620	31	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
2000000000-N	806	4	EA	RIGHT OF WAY MARKERS
2286000000-N	840	3	EA	MASONRY DRAINAGE STRUCTURES
2308000000-E	840	7	LF	MASONRY DRAINAGE STRUCTURES
2367000000-N	840	2	EA	FRAME WITH TWO GRATES, STD 840.29
2396000000-N	840	1	EA	FRAME WITH COVER, STD 840.54
2556000000-E	846	65	LF	SHOULDER BERM GUTTER
3030000000-E	862	325	LF	STEEL BM GUARDRAIL
3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS
3215000000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III

ItemNumber	Sec #	Quantity	Unit	Description
3270000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
3649000000-E	876	5	TON	RIP RAP, CLASS B
3656000000-E	876	1,110	SY	FILTER FABRIC FOR DRAINAGE
4400000000-E	1110	312	SF	WORK ZONE SIGNS (STATIONARY)
4410000000-E	1110	94	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)
4445000000-E	1145	64	LF	BARRICADES (TYPE III)
4810000000-E	1205	4,680	LF	PAINT PAVEMENT MARKING LINES (4")
4900000000-N	1251	67	EA	PERMANENT RAISED PAVEMENT MARKERS
6000000000-E	1605	2,900	LF	TEMPORARY SILT FENCE
6006000000-E	1610	225	TON	STONE FOR EROSION CONTROL, CLASS A
6009000000-E	1610	215	TON	STONE FOR EROSION CONTROL, CLASS B
6012000000-E	1610	75	TON	SEDIMENT CONTROL STONE
6015000000-E	1615	2.5	ACR	TEMPORARY MULCHING
6018000000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
6021000000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
6029000000-E	SP	500	LF	SAFETY FENCE
6030000000-E	1630	350	CY	SILT EXCAVATION
6036000000-E	1631	5,100	SY	MATting FOR EROSION CONTROL
6042000000-E	1632	50	LF	1/4" HARDWARE CLOTH
6071030000-E	SP	100	LF	COIR FIBER BAFFLES
6084000000-E	1660	3.5	ACR	SEEDING & MULCHING
6087000000-E	1660	1	ACR	MOWING
6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
6096000000-E	1662	50	LB	SEED FOR SUPPLEMENTAL SEEDING
6108000000-E	1665	1.25	TON	FERTILIZER TOPDRESSING

ItemNumber	Sec #	Quantity	Unit	Description
6114000000-N	SP	5	HR	SPECIALIZED HAND MOWING
6117000000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL
***** BEGIN SCHEDULE AA ***** (3 ALTERNATES) *****				
0378000000-E AA1	310	48	LF	24" RC PIPE CULVERTS, CLASS III
*** OR ***				
0540000000-E AA2	SP	48	LF	*** ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, **** THICK (24", 0.064")
*** OR ***				
0536000000-E AA3	SP	48	LF	*** HDPE PIPE CULVERTS (24")
***** END SCHEDULE AA *****				

05-AUG-2008 13:59 b4526_rdy_sum.dgn

SUMMARY OF EARTHWORK IN CUBIC YARDS

STATION TO STATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
-L- Sta. 11+00 to 13+38	0		248	248	
-Y- Sta. 10+10 to 10+85	1		204	203	
Subtotal	1		452	451	
-L- Sta. 14+28 to 16+85	0		160	160	
Subtotal	0		160	160	
Total	1		612	611	
5% for Borrow Pit				31	
Grand Total	1		612	642	
SAY	1			650	
Contingency Undercut		200			

SUMMARY OF PAVEMENT REMOVAL IN SQUARE YARDS

STATION TO STATION	LOCATION	ASPHALT PAVEMENT BREAKUP	ASPHALT PAVEMENT REMOVAL	CONCRETE PAVEMENT BREAKUP	CONCRETE PAVEMENT REMOVAL
-L- Sta. 12+00 to 13+70	CL		364		
-L- Sta. 14+23 to 15+50	CL		276		
Total			640		
Say			650		

Note: Approximate quantities only. Unclassified Excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, and Removal of Existing Pavement will be paid for at the contract lump sum price for "Grading."

NOTE: Earthwork quantities are calculated by the Roadway Design Unit. These earthwork quantities are based in part on subsurface data provided by the Geotechnical Engineering Unit.

5/9/06

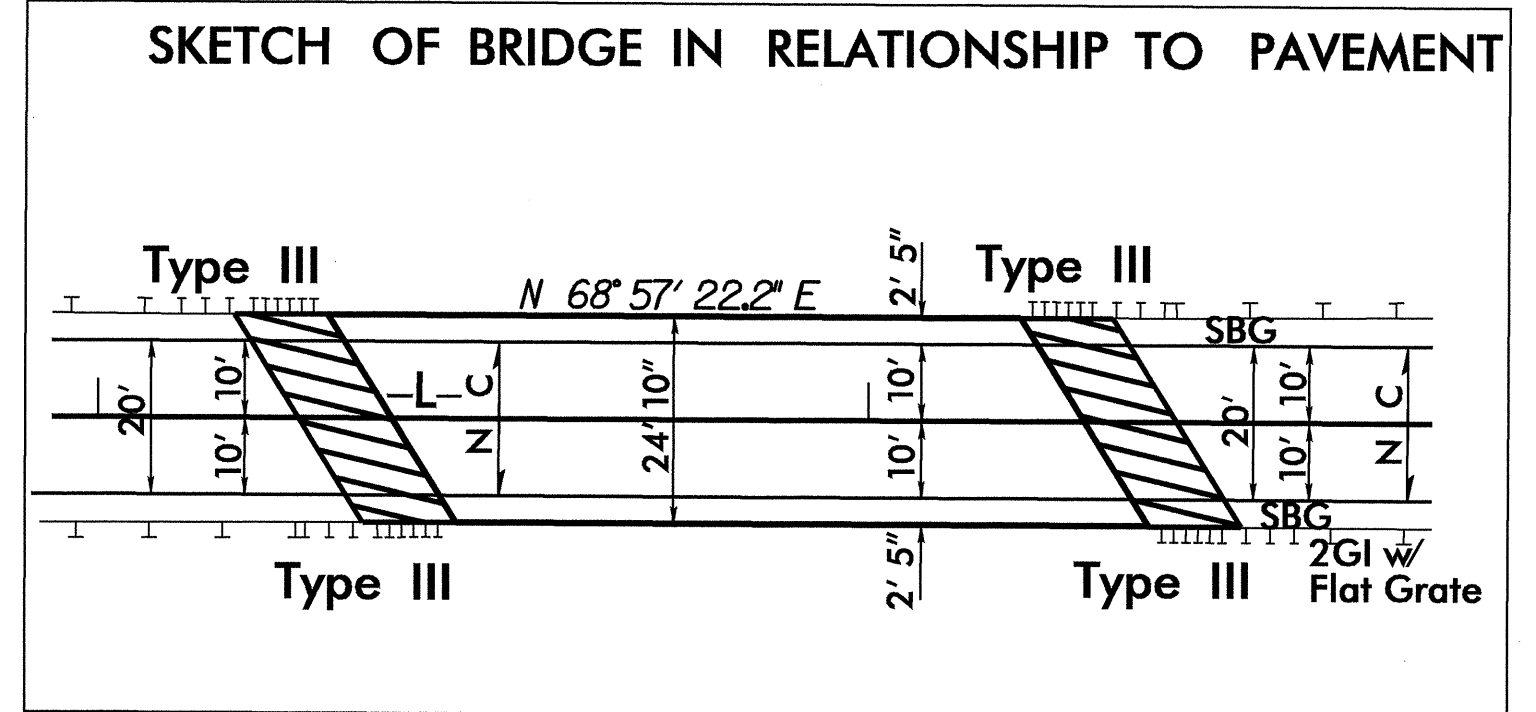
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8/17/99

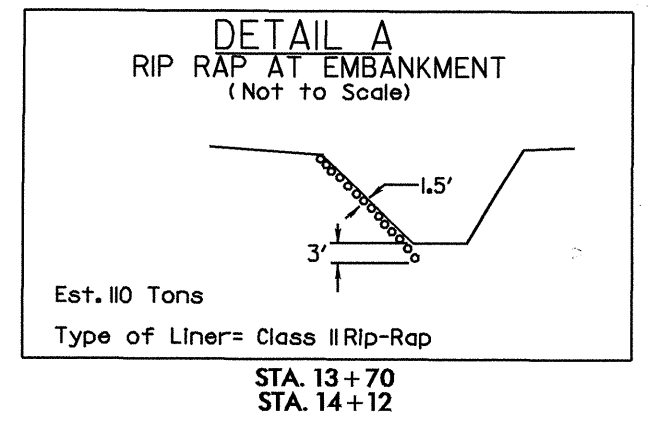
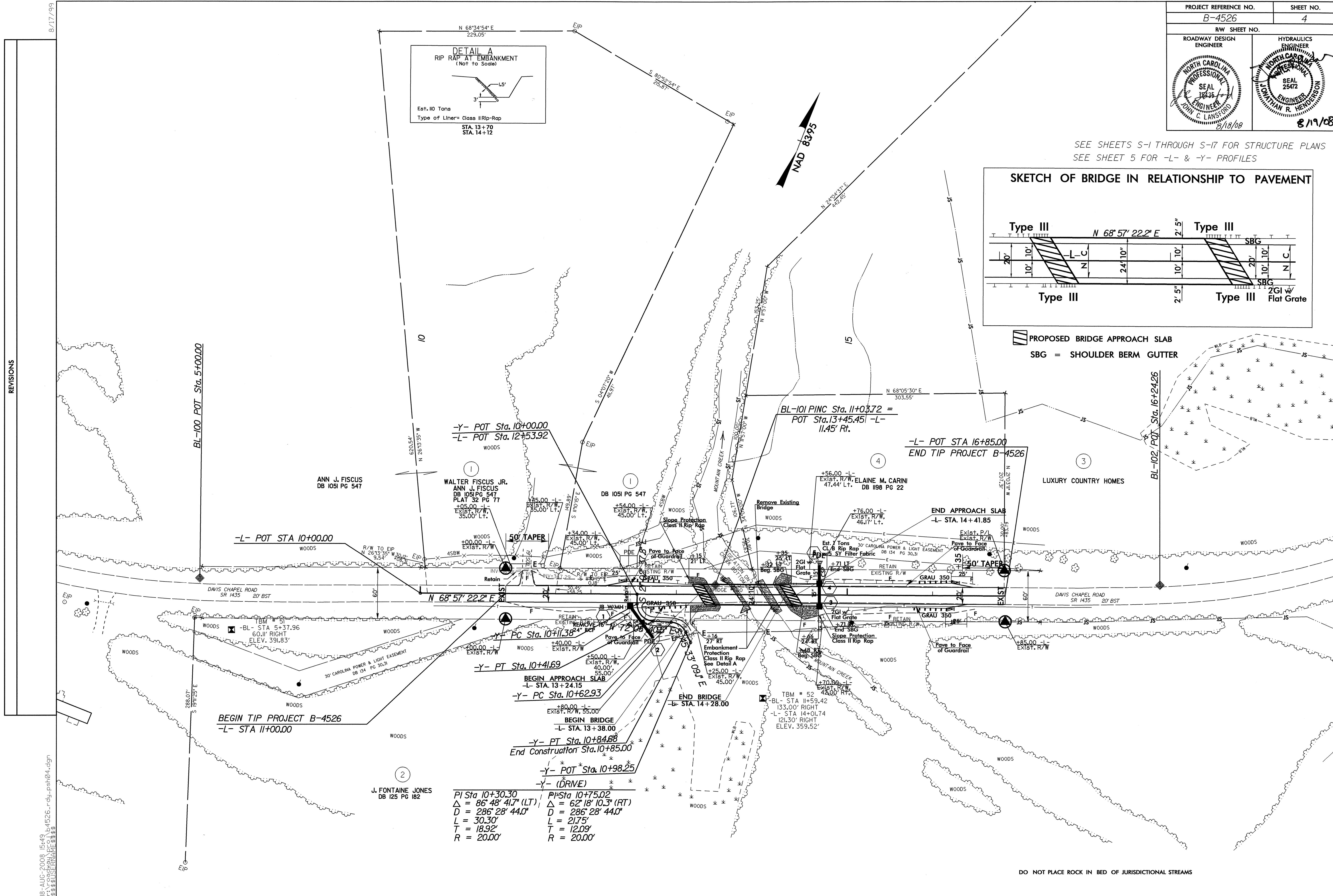
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PROJECT REFERENCE NO. B-4526	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER

SEE SHEETS S-1 THROUGH S-7 FOR STRUCTURE PLANS
SEE SHEET 5 FOR -L- & -Y- PROFILES



PROPOSED BRIDGE APPROACH SLAB
SBG = SHOULDER BERM GUTTER



-Y- POT Sta. 10+00.00
-L- POT Sta. 12+53.92

BL-101 PINC Sta. 11+03.72 =
POT Sta. 13+45.45 -L-
11.45' Rt.

-L- POT STA 16+85.00
END TIP PROJECT B-4526

-L- POT STA 10+00.00

BEGIN TIP PROJECT B-4526
-L- STA 11+00.00

-Y- PT Sta. 10+41.69

BEGIN APPROACH SLAB
-L- STA. 13+24.15

-Y- PC Sta. 10+62.93

END BRIDGE
-L- STA. 14+28.00

-Y- PT Sta. 10+84.68

End Construction Sta. 10+85.00

-Y- POT Sta. 10+98.25

-Y- (DRIVE)

PI Sta 10+30.30
 $\Delta = 86^\circ 48' 41.7''$ (LT)
 $D = 286' 28' 44.0''$
 $L = 30.30'$
 $T = 18.92'$
 $R = 20.00'$

PI Sta 10+75.02
 $\Delta = 62^\circ 18' 10.3''$ (RT)
 $D = 286' 28' 44.0''$
 $L = 21.75'$
 $T = 12.09'$
 $R = 20.00'$

DO NOT PLACE ROCK IN BED OF JURISDICTIONAL STREAMS

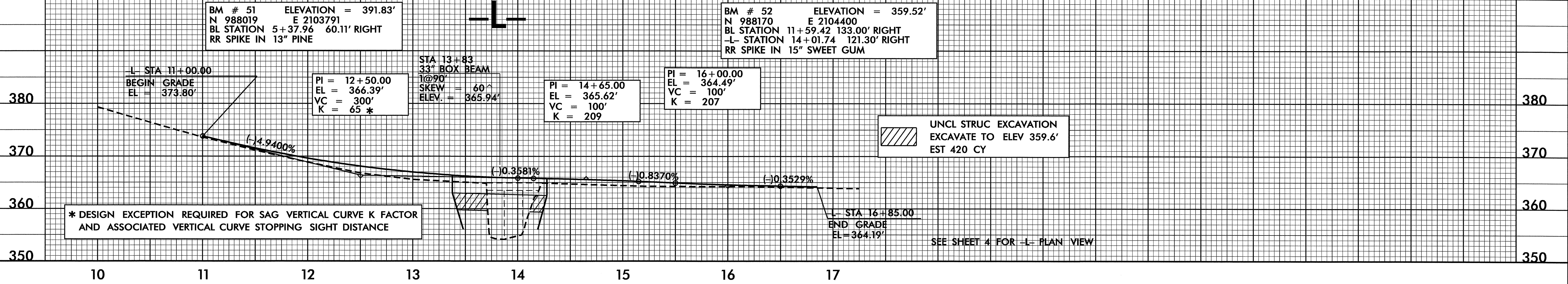
5/28/09

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PROJECT REFERENCE NO. B-4526	SHEET NO. 5
ROADWAY DESIGN ENGINEER JOHN C. LANSFORD 8/25/08	HYDRAULICS ENGINEER J. WATKINS R. HENDERSON 8/19/08

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 2200	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 3627	FT
BASE DISCHARGE	= 3400	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 3643	FT
OVERTOPPING DISCHARGE	= 3000	CFS
OVERTOPPING FREQUENCY	= 50	YRS
OVERTOPPING ELEVATION	= 3637	FT



-Y- (DRIVE)

