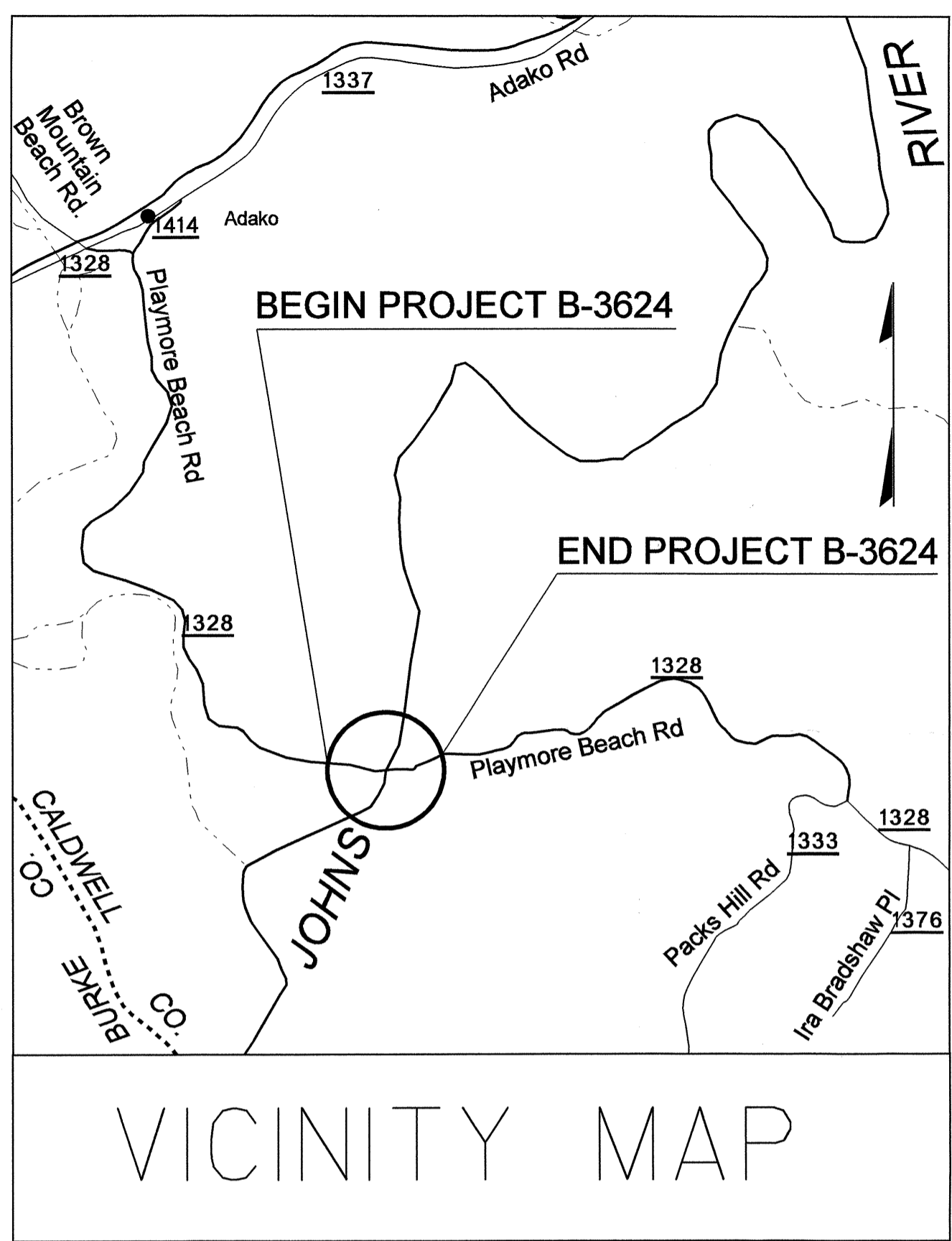


09/28/09

TIP PROJECT: B-3624

CONTRACT: C201920

See Sheet 1-A For Index of Sheets



VICINITY MAP

← TO ADAKO RD. (SR 1337)

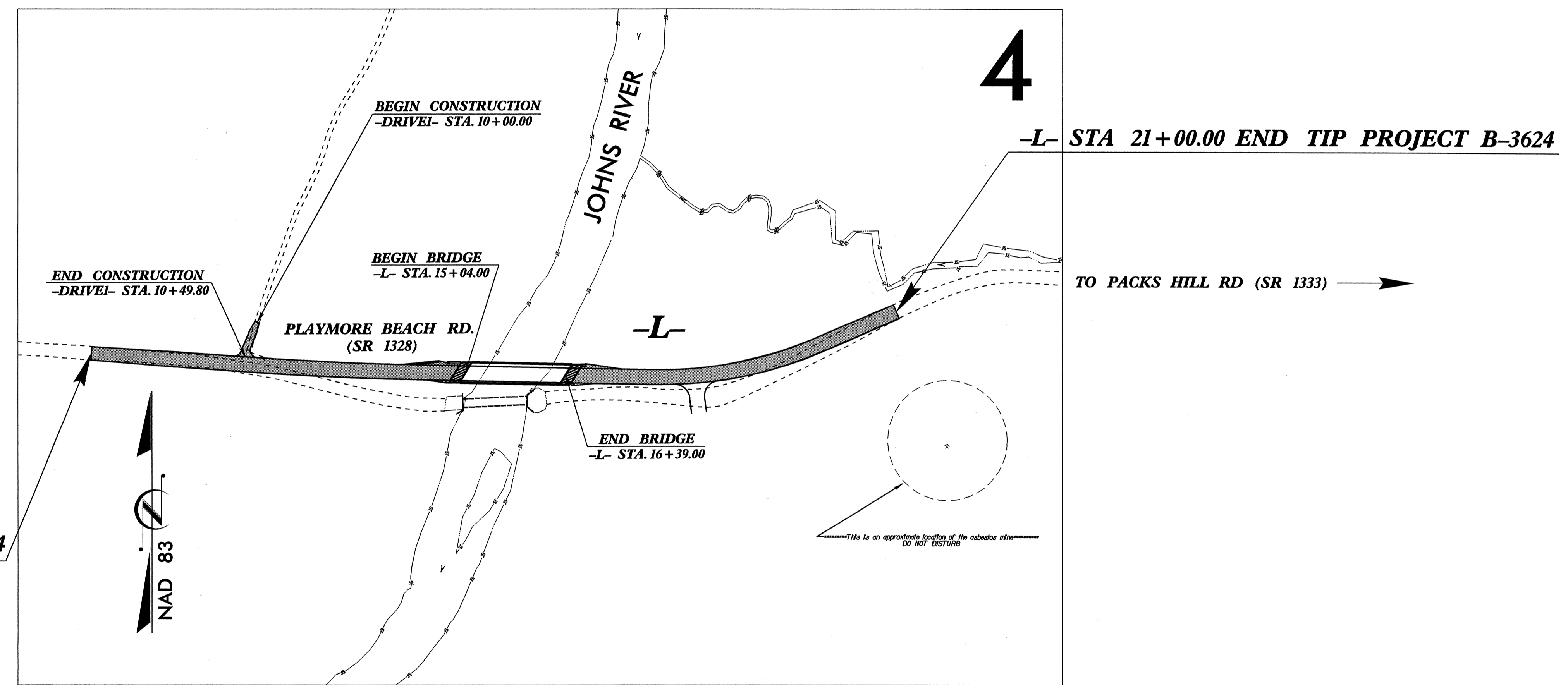
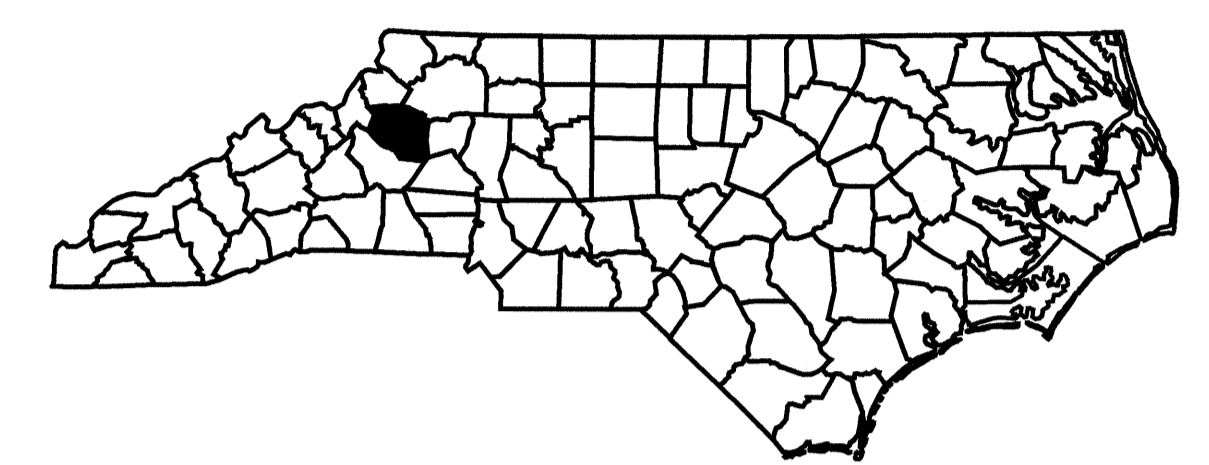
←L- STA 10+00.00 BEGIN TIP PROJECT B-3624

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
CALDWELL COUNTY

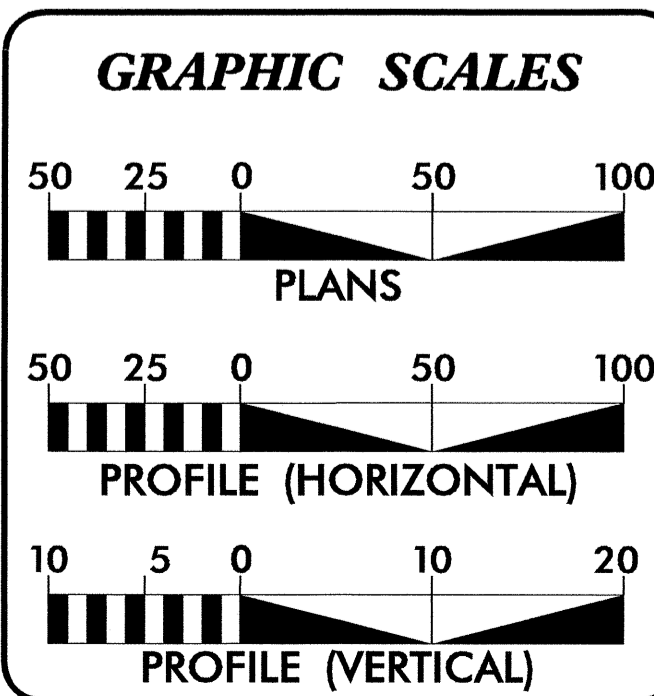
LOCATION: BRIDGE No. 190 OVER JOHNS RIVER ON SR 1328

TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND STRUCTURE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-3624	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33172.1.1	BRZ-1328(4)	P.E.	
33172.2.1	BRZ-1328(4)	RW, UTIL	
33172.3.1	BRZ-1328(4)	CONST.	



THERE IS NO CONTROL OF ACCESS ON THIS PROJECT.



DESIGN DATA

ADT 2008 = 277
ADT 2028 = 662

DHV = 12 %
D = 60 %
T = 3 % *
V = 40 MPH
FUNC CLASS = LOCAL
* TTST 1 DUAL 2

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT B-3624 = 0.182 MILES
LENGTH OF STRUCTURE TIP PROJECT B-3624 = 0.026 MILES
TOTAL LENGTH OF TIP PROJECT B-3624 = 0.208 MILES

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

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
SEPTEMBER 21, 2007

LETTING DATE:
December 16, 2008.

TONY HOUSER, PE
PROJECT ENGINEER

JASON TALLEY, PE
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

W. Herbert Turner, Jr. 6-24-08

ROADWAY DESIGN ENGINEER

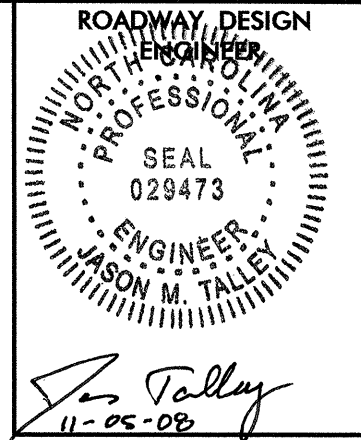
Jason Talley 6-20-08

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

cat miller

STATE HIGHWAY DESIGN ENGINEER

16-JUN-2008 15:30
r:\p04\way\proj\B3624_rdy_l_1+sh.dgn
\$\$\$\$USERNAME\$\$\$\$



8/17/99

05-NOV-2008 08:47
 t:\projects\2008\B-3624\rdj_1.tsh.dgn

SHEET NUMBER	SHEET	2006 ROADWAY ENGLISH STANDARD DRAWINGS
1	TITLE SHEET	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:
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS	STD.NO. TITLE
1-B	CONVENTIONAL SYMBOLS	DIVISION 2 - EARTHWORK
1-C	SURVEY CONTROL SHEET	200.03 Method of Clearing - Method III
2	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND DETAIL SHOWING RELATIONSHIP OF PAVED SHOULDER AND SHOULDER BERM GUTTER TO GUARDRAIL	225.02 Guide for Grading Subgrade - Secondary and Local
2-A	DETAIL SHOWING ANCHORAGE FOR FRAMES	225.04 Method of Obtaining Superelevation - Two Lane Pavement
2-B	DETAIL SHOWING BRIDGE APPROACH FILLS	DIVISION 3 - PIPE CULVERTS
3	SUMMARY OF QUANTITIES	300.01 Method of Pipe Installation - Method 'A'
3A	SUMMARY OF DRAINAGE QUANTITIES GUARDRAIL SUMMARY, SUMMARY OF EARTHWORK, AND PARCEL INDEX	310.10 Driveway Pipe Construction
4	PLAN SHEET, DITCH DETAILS, AND BRIDGE TO PAVEMENT RELATIONSHIP SKETCH	DIVISION 5 - SUBGRADE, BASES AND SHOULDERS
5	PROFILE SHEET	560.01 Method of Shoulder Construction - High Side of Superelevated Curve - Method I
TCP-1 THRU TCP-4	TRAFFIC CONTROL PLANS	DIVISION 8 - INCIDENTALS
EC-1 THRU EC-5	EROSION CONTROL PLANS	806.01 Concrete Right-of-Way Marker
RF-1	REFORESTATION DETAIL SHEET	806.02 Granite Right-of-Way Marker
X-0	CROSS SECTION SUMMARY	815.03 Pipe Underdrain and Blind Drain
X-1 THRU X-15	CROSS SECTIONS	816.04 Markers for Drainage Structure and Concrete Pad
S-1 THRU S-28	STRUCTURE PLANS	840.00 Concrete Base Pad for Drainage Structures
		840.29 Frames and Narrow Slot Flat Grates
		840.35 Traffic Bearing Grated Drop Inlet - for Cast Iron Double Frame and Grates
		840.46 Traffic Bearing Precast Drainage Structure
		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
		866.04 Barbed Wire Fence with Wood Posts (2 - 7 Strands)

EFF. 07-18-06
 REV. 01-02-07

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

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.

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

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.

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.
 ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

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

3/15/06

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	○ EP
Property Corner	-----
Property Monument	□ EPM
Parcel/Sequence Number	①23
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	----- WLB
Proposed Wetland Boundary	----- WLB
Existing Endangered Animal Boundary	----- EAB
Existing Endangered Plant Boundary	----- EPB

BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	○
Sign	○ S
Well	○ W
Small Mine	✕
Foundation	□
Area Outline	□
Cemetery	□ †
Building	□
School	□
Church	□
Dam	□

HYDROLOGY:

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

RAILROADS:

Standard Gauge	----- CSX TRANSPORTATION
RR Signal Milepost	○ 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
Proposed Wheel Chair Ramp Curb Cut	○ WCC
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	----- UTL
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.

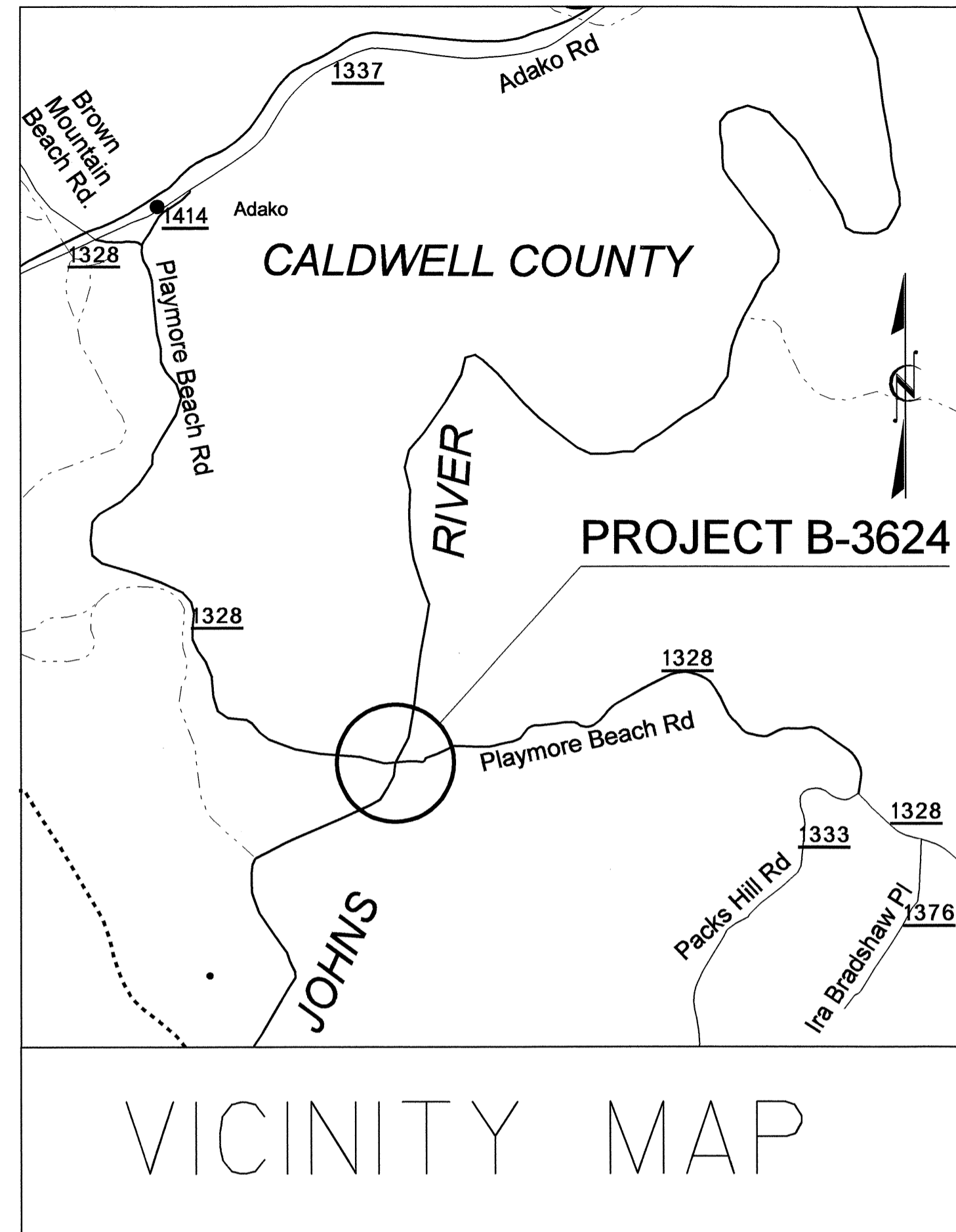
SURVEY CONTROL SHEET B-3624

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
GPS2	(GPS B3624-2)	787828.9510	1198017.9130	1059.92		OUTSIDE PROJECT LIMITS
BL3	(BL-3)	787828.5583	1198316.6784	1078.89		OUTSIDE PROJECT LIMITS
BL4	(BL-4)	787740.7188	1199031.4244	1041.88	14+75.02	33.45 RT
BL5	(BL-5)	787732.8316	1199423.1291	1049.50	18+59.24	43.52 RT
BL6	(BL-6)	787910.7798	1199767.1885	1051.87		OUTSIDE PROJECT LIMITS
BL7	(BL-7)	787876.8190	1200070.5869	1056.77		OUTSIDE PROJECT LIMITS
BL8	(BL-8)	787977.5786	1200415.2309	1068.75		OUTSIDE PROJECT LIMITS

 BM * 1 ELEVATION = 1105.42'
 N 787887 E 1198254
 OUTSIDE PROJECT LIMITS
 8" SPIKE SET IN ROOT OF 30" SWEET GUM TREE.

 BM * 2 ELEVATION = 1050.54'
 N 787654 E 1198985
 L STATION 14+31 121' RIGHT
 8" SPIKE SET IN ROOT OF 10" ASH TREE.

 BM * 3 ELEVATION = 1061.83'
 N 787844 E 1200305
 OUTSIDE PROJECT LIMITS
 8" SPIKE SET IN ROOT OF 12" SWEET GUM TREE.



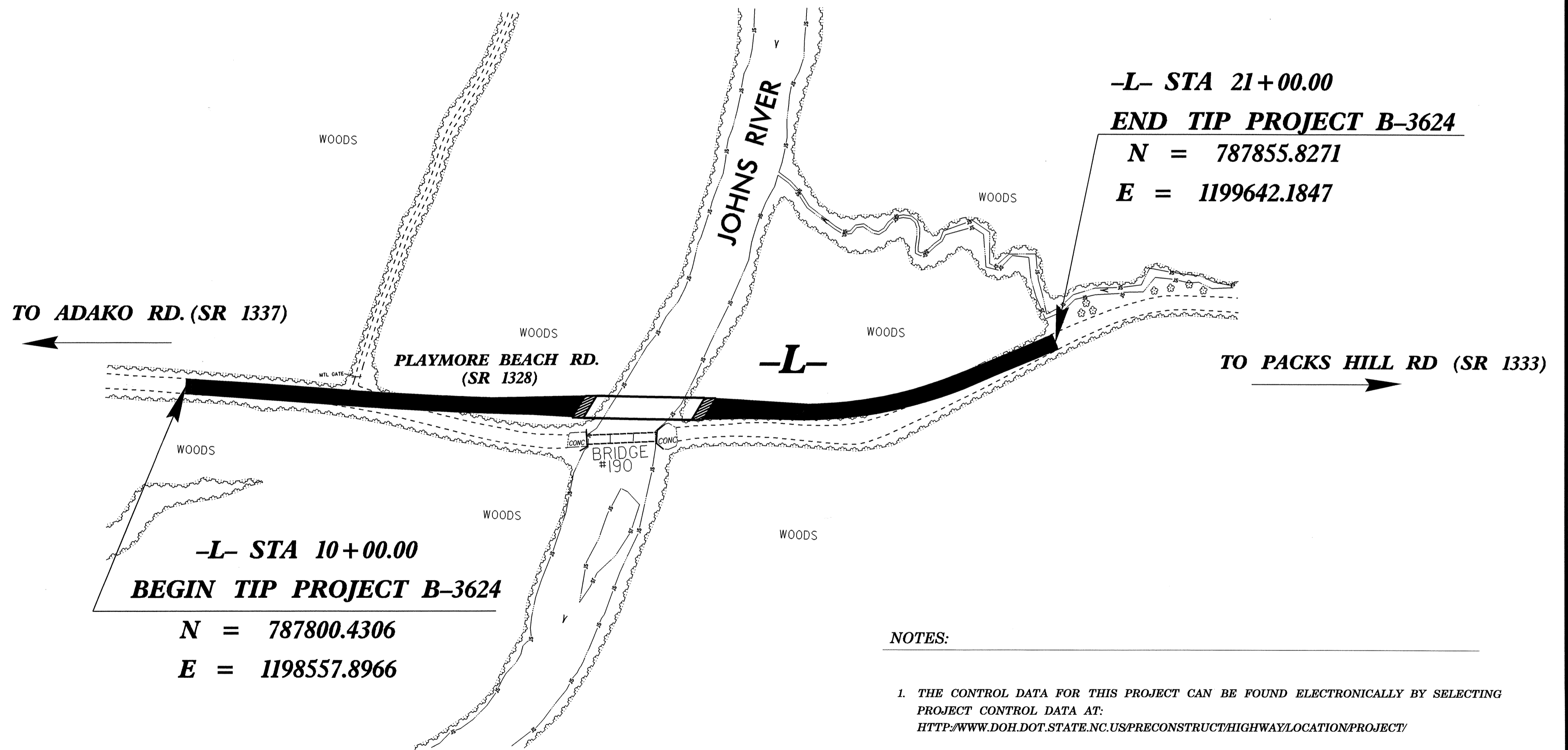
VICINITY MAP

NCDOT GPS STATION B3624-2
 N = 787828.951
 E = 1198017.913

NCDOT GPS STATION B3624-1
 N = 787563.090
 E = 1197625.313

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B3624-2"
 WITH NAD 1983 STATE PLANE GRID COORDINATES OF
 NORTHING: 787828.951(±) EASTING: 1198017.913(±)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99988793
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B3624-2" TO -L- STATION 10+00.00 IS
 S 86°58'36" E 540.74
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88



**-L- STA 10+00.00
 BEGIN TIP PROJECT B-3624**
 N = 787800.4306
 E = 1198557.8966

**-L- STA 21+00.00
 END TIP PROJECT B-3624**
 N = 787855.8271
 E = 1199642.1847

NOTES:

- 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/](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project/)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
 B3624_LS_CONTROL_060911.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)

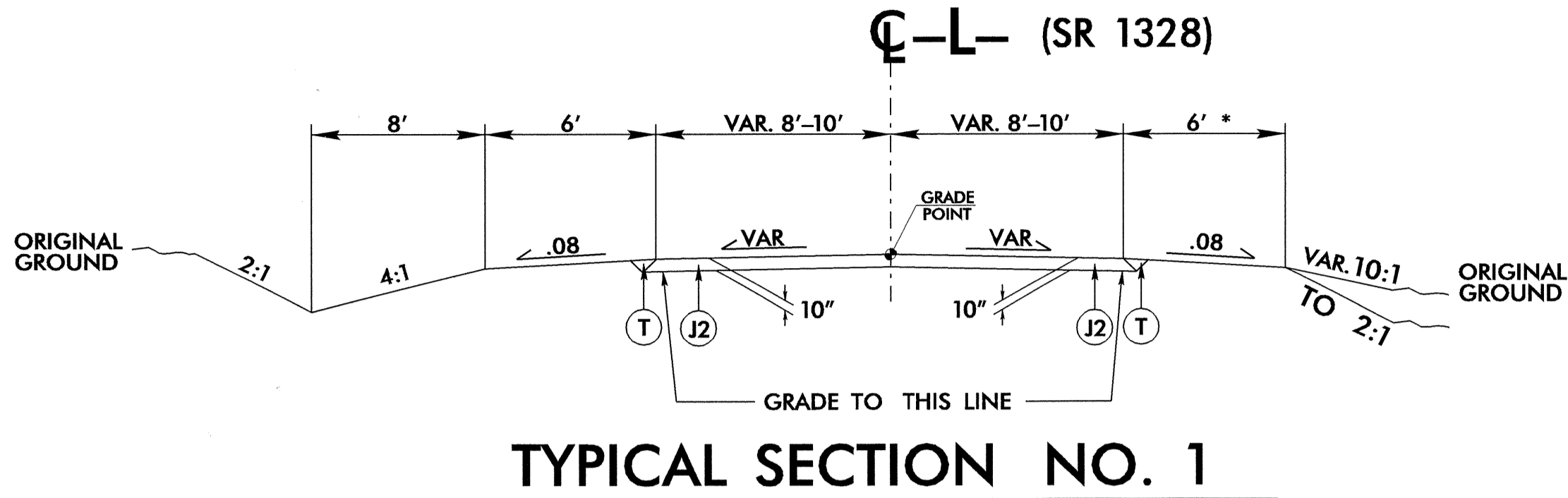
NOTE: DRAWING NOT TO SCALE

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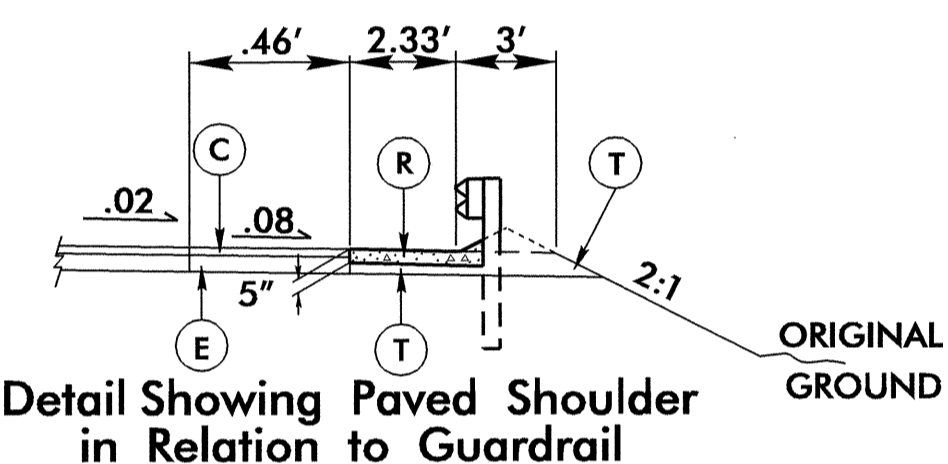
6/2/09

PAVEMENT SCHEDULE	
A	PROP. APPROX. 3" PORTLAND CEMENT CONCRETE PAVEMENT NOTE: STRUCTURE PAY ITEM
C	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
E	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
J1	PROP. 8" AGGREGATE BASE COURSE
J2	PROP. 10" AGGREGATE BASE COURSE
R	SHOULDER BERM GUTTER.
T	EARTH MATERIAL

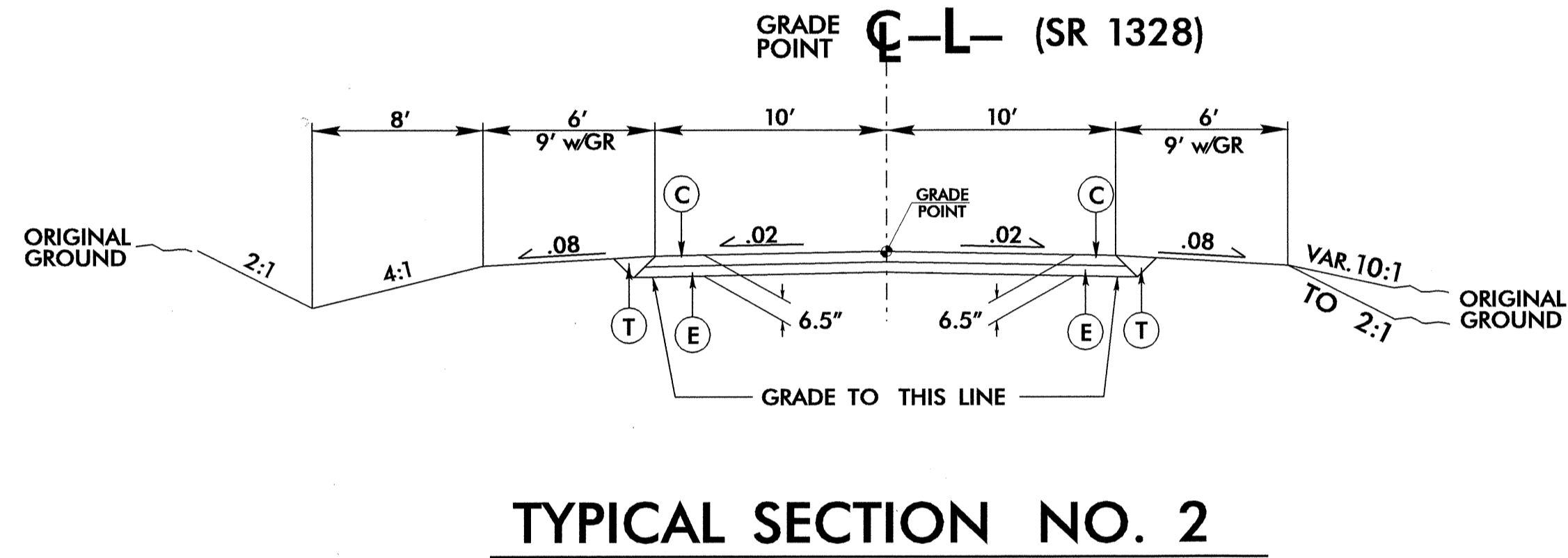
PROJECT REFERENCE NO. B-3624	SHEET NO. 2
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 029473 JASON M. TALLEY 6-20-08	PAVEMENT DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 22886 CLARK S. MORRISON 6/23/08



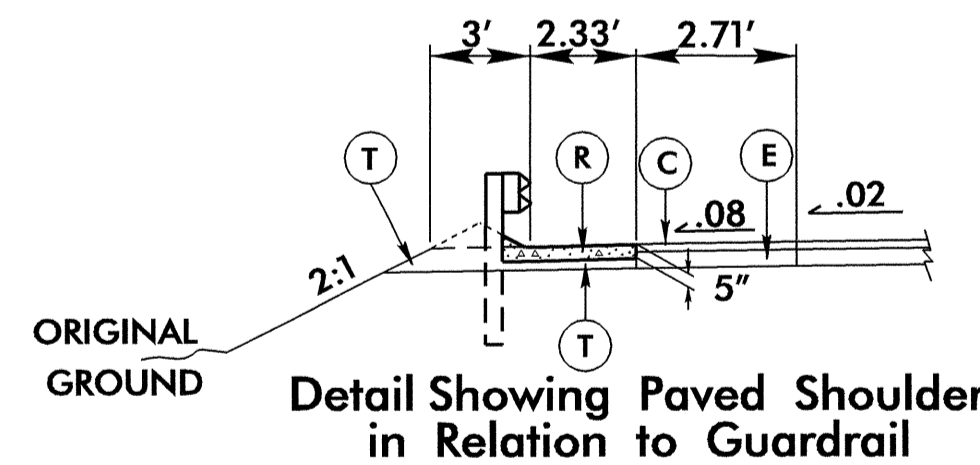
USE TYPICAL SECTION NO. 1 FOR THE FOLLOWING:
 -L- STA. 10+00.00 TO -L- STA. 11+00.00
 -L- STA. 20+00.00 TO -L- STA. 21+00.00
 * NOTE: 4.5' SHOULDER AT -L- STA. 20+50.00



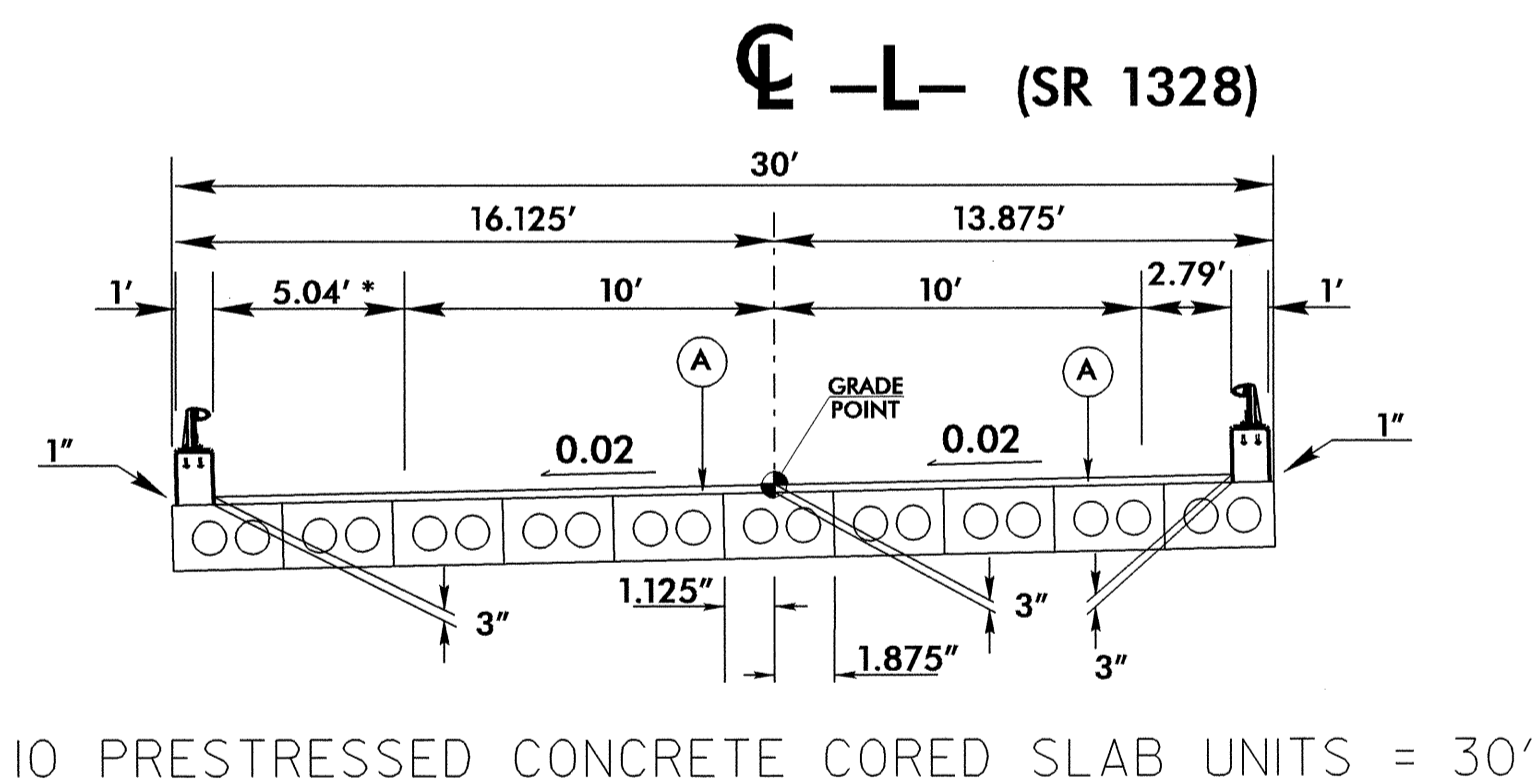
USE SHOULDER BERM GUTTER FOR THE FOLLOWING:
 -L- STA. 14+77.89 TO -L- STA. 14+84.14 RT
 -L- STA. 16+44.14 TO -L- STA. 16+50.39 RT



USE TYPICAL SECTION NO. 2 FOR THE FOLLOWING:
 -L- STA. 11+00.00 TO -L- STA. 15+04.00 (BEGIN BRIDGE)
 -L- STA. 16+39.00 (END BRIDGE) TO -L- STA. 20+00.00

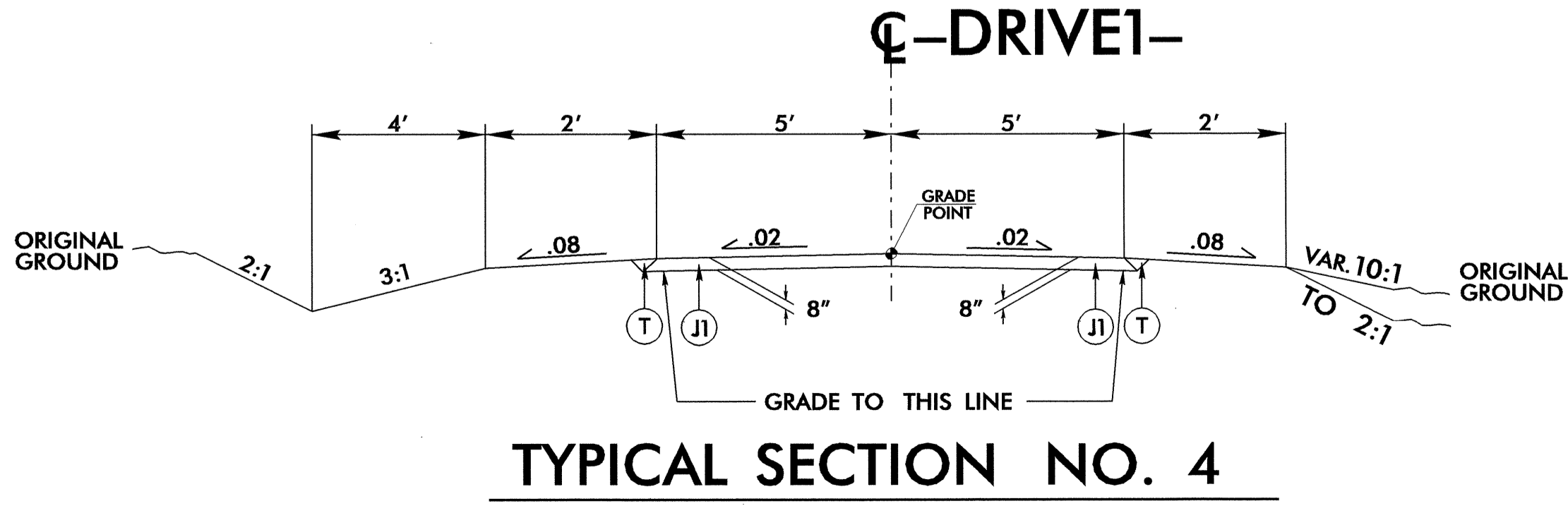


USE SHOULDER BERM GUTTER FOR THE FOLLOWING:
 -L- STA. 14+78.13 TO -L- STA. 15+00.16 LT
 -L- STA. 16+60.16 TO -L- STA. 16+66.41 LT



USE TYPICAL SECTION NO. 3 FOR THE FOLLOWING:
 -L- STA. 15+04.00 TO -L- STA. 16+39.00
 * REQUIRED 5' OFFSET ON LEFT DUE TO HYDRAULIC SPREAD

SEE STRUCTURE PLANS FOR DETAIL OF BRIDGE RAIL FOR LOW-WATER BRIDGE



USE TYPICAL SECTION NO. 4 FOR THE FOLLOWING:
 -DRIVE1- STA. 10+00.00 TO -DRIVE1- STA. 10+49.80

16-JUN-2008 11:24 AM B3624_rdy_1.tsp.dgn

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

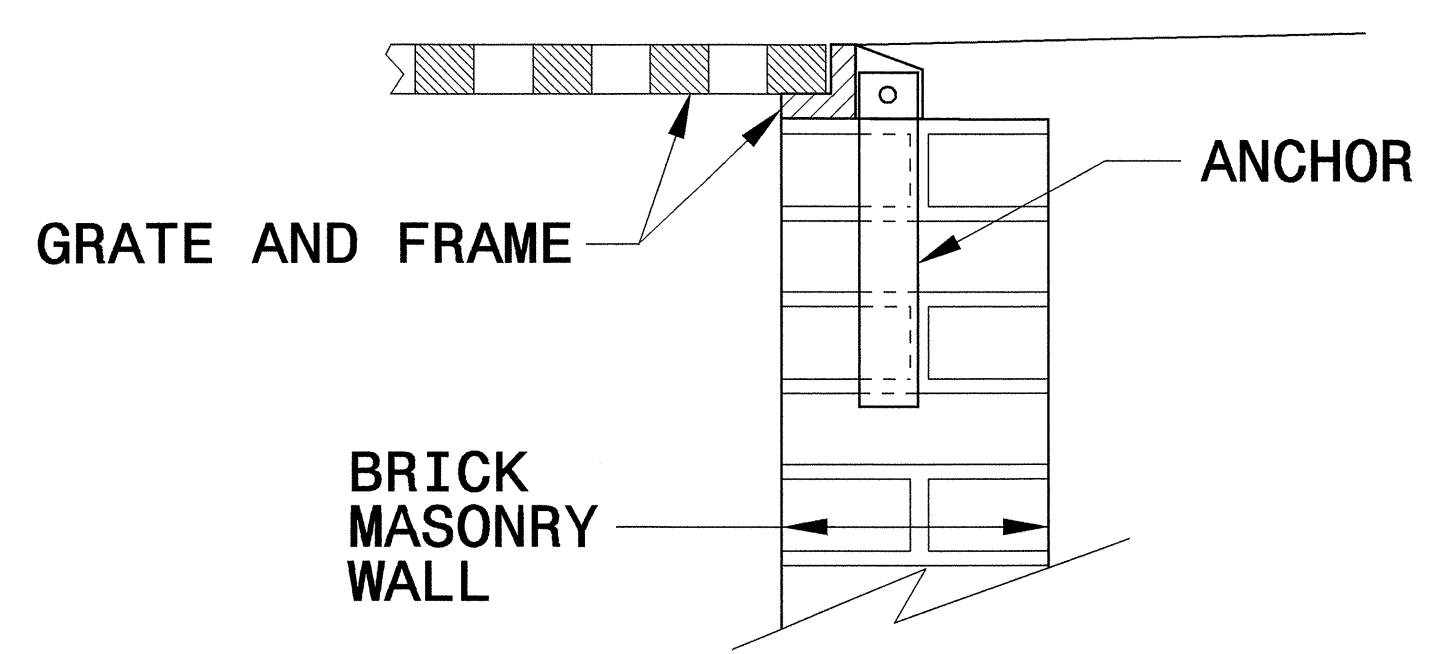
ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

SHEET 1 OF 1
840D25

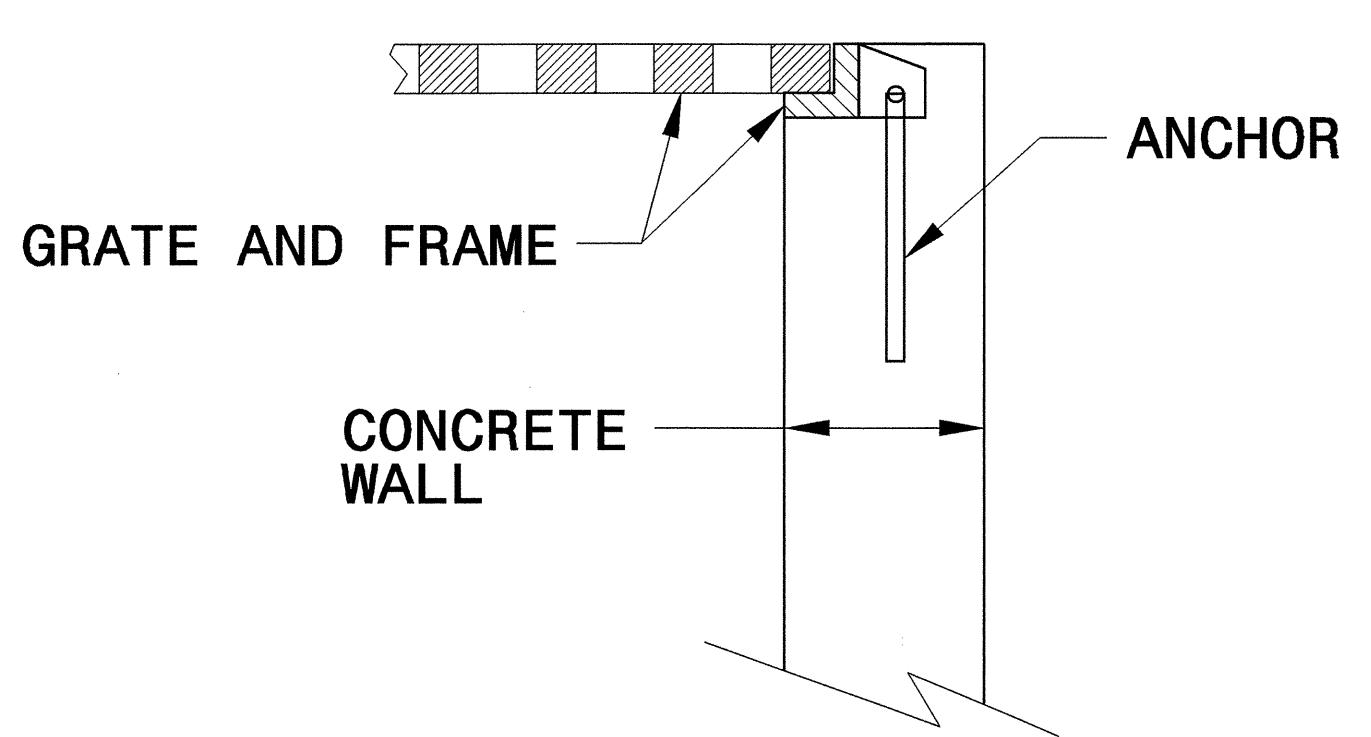
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
ANCHORAGE FOR FRAMES
BRICK/CONCRETE/PRECAST CONCRETE

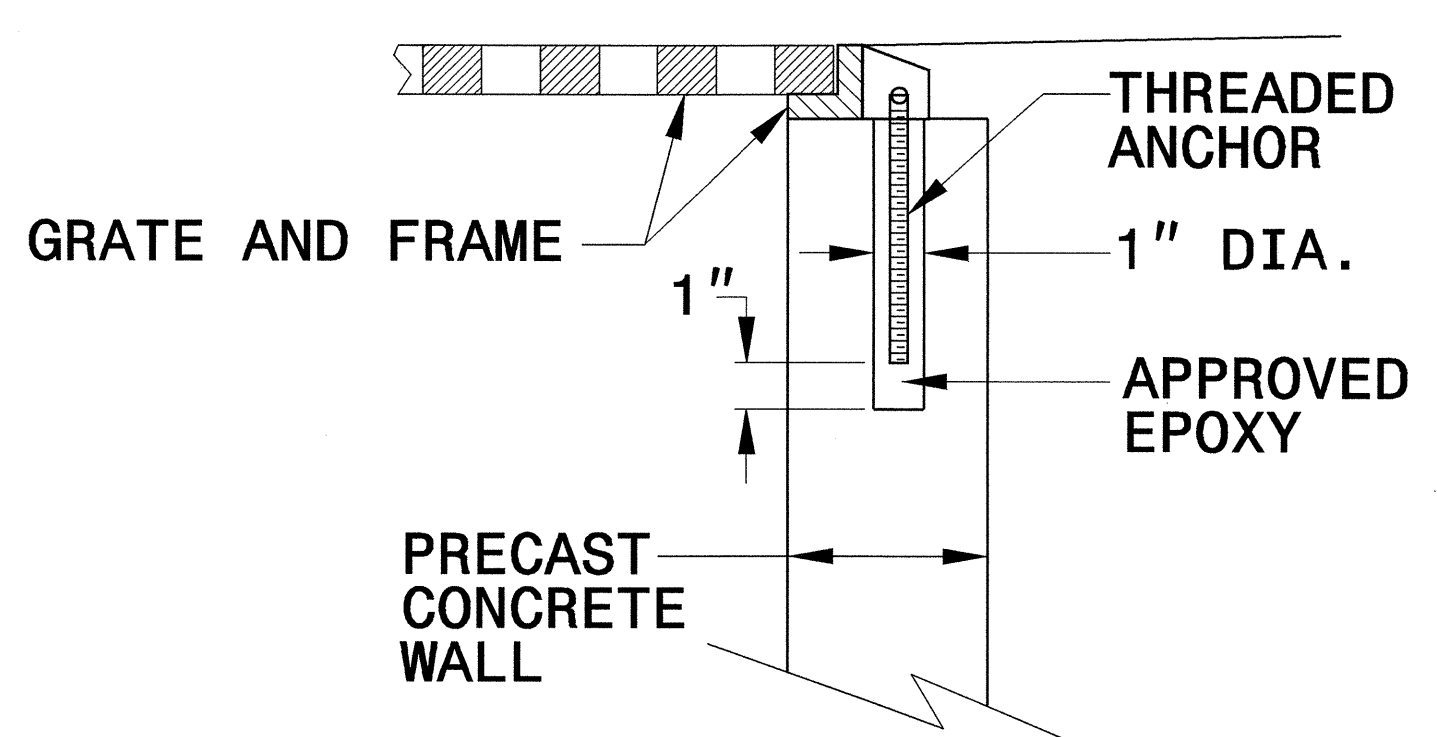
SHEET 1 OF 1
840D25



BRICK MASONRY CONSTRUCTION



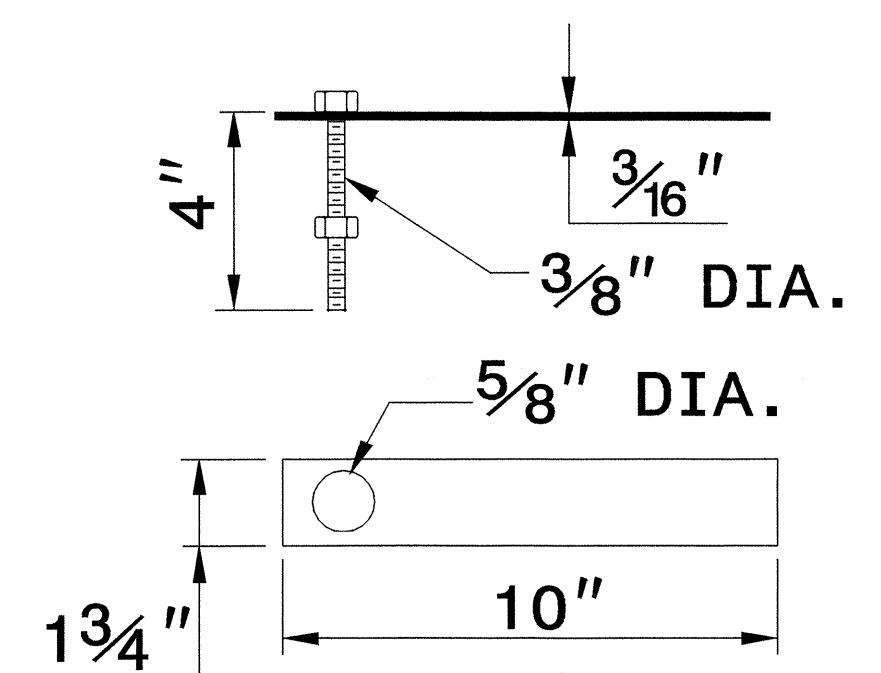
CONCRETE CONSTRUCTION



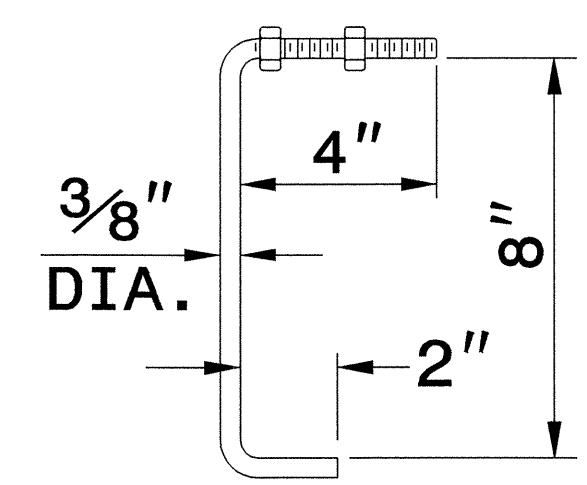
PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

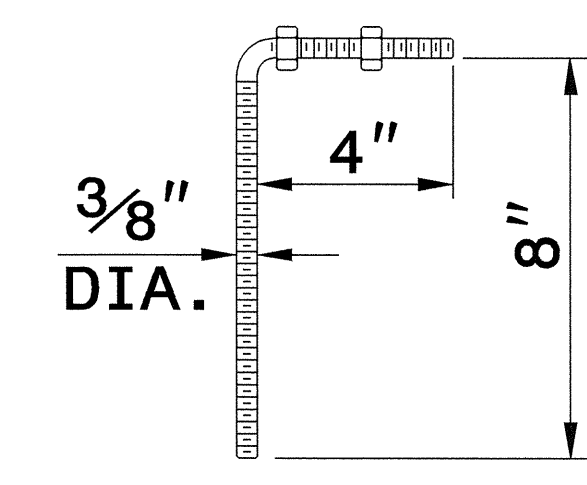
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



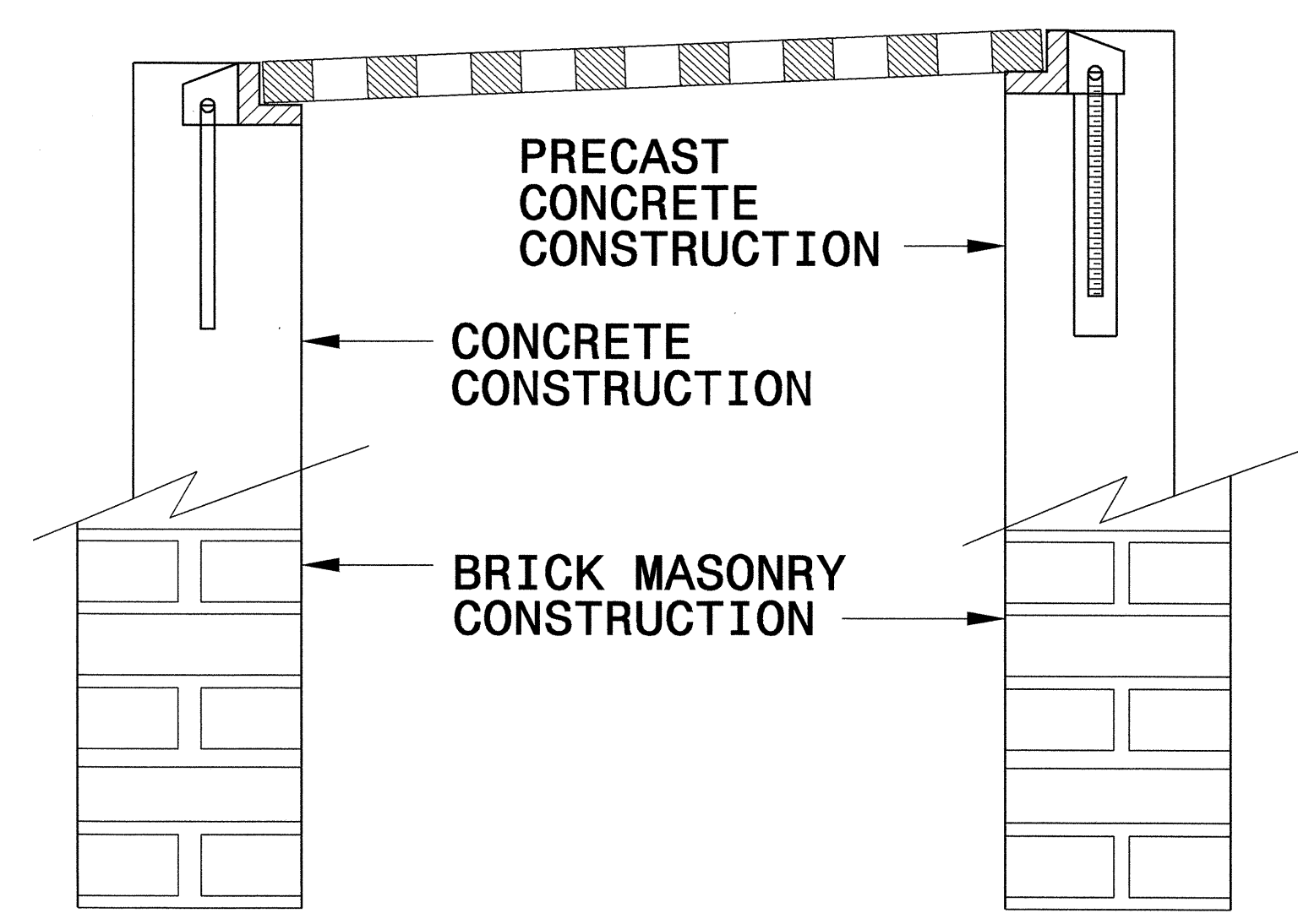
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



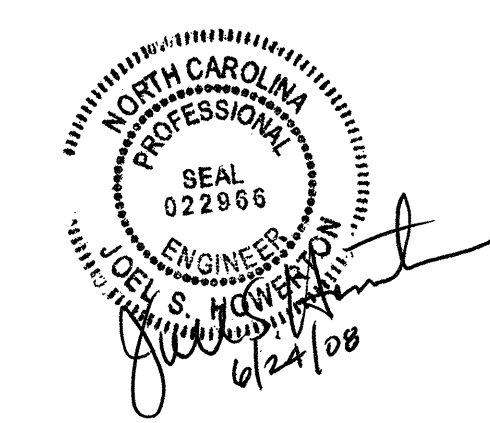
CONCRETE ANCHOR
3/8" DIA. BENT BAR



PRECAST CONCRETE ANCHOR
3/8" DIA. BENT BAR



FRAME AND GRATE INSTALLATION FOR NORMAL CROWN AND SUPERELEVATED SECTIONS



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

SEE PLATE FOR TITLE

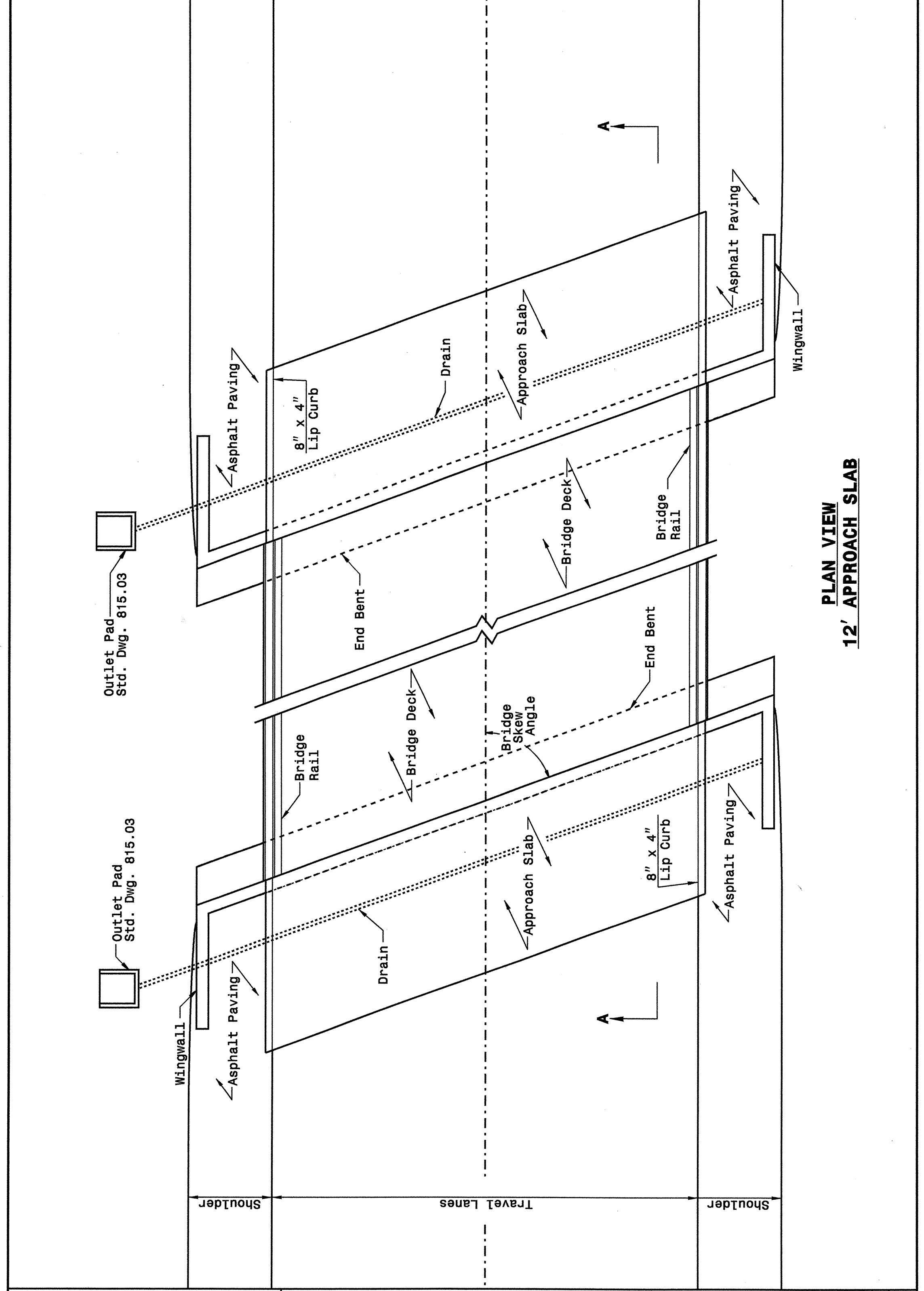
ORIGINAL BY: 2006 STD 840.25 DATE: 07/18/06
MODIFIED BY: E.E. WARD DATE: 9/25/06
CHECKED BY: DATE:
FILE SPEC.:

PLATE 840D25-1

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.

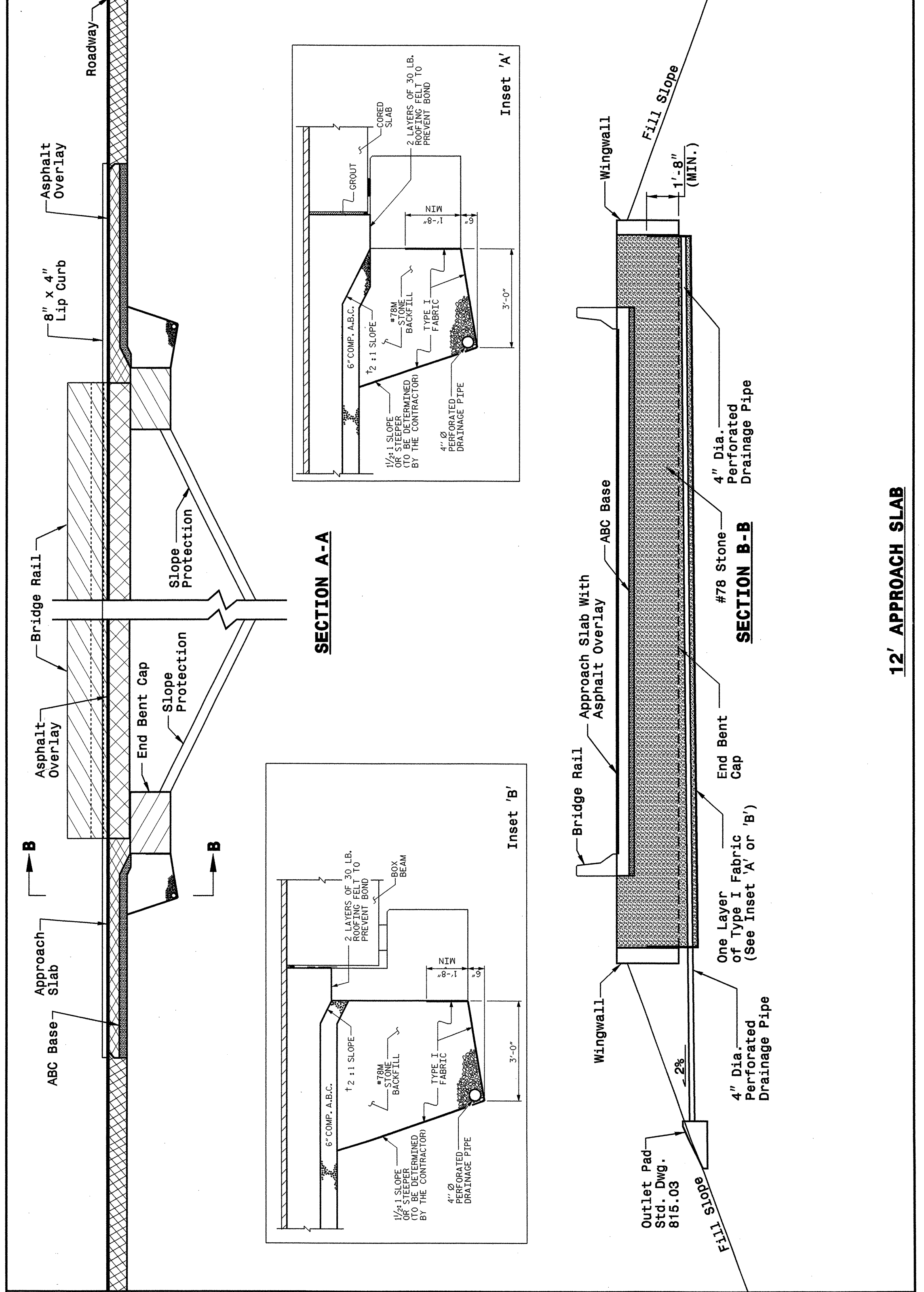
ENGLISH DETAIL DRAWING FOR
BRIDGE APPROACH FILLS
CORED SLAB & BOX BEAM BRIDGES
SUB REGIONAL TIER

SHEET 1 OF 2
422D11

STATE OF NORTH CAROLINA
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RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
BRIDGE APPROACH FILLS
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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

**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: DATE:
CHECKED BY: DATE: 4/27/09
FILE SPEC.: Kkempf/english/bridge approach fills.dgn

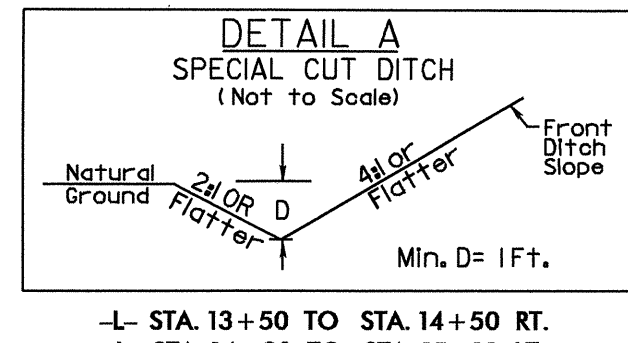
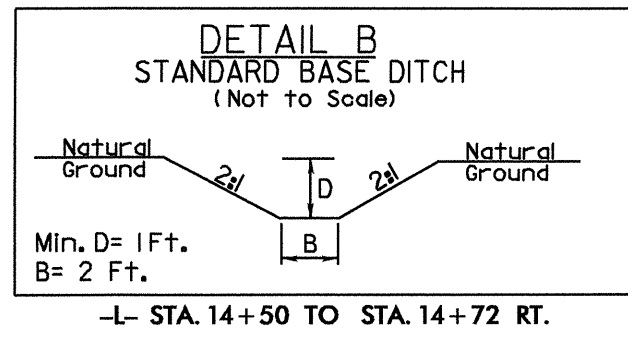
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Kempf A1 P3237405

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201920														
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	2556000000-E	846	45	LF	SHOULDER BERM GUTTER	6018000000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING
0000400000-N	801	Lump Sum		CONSTRUCTION SURVEYING	3030000000-E	862	150	LF	STEEL BM GUARDRAIL	6021000000-E	1620	0.5	TON	FERTILIZER FOR TEMPORARY SEEDING
0043000000-N	226	Lump Sum		GRADING	3150000000-N	862	5	EA	ADDITIONAL GUARDRAIL POSTS	6029000000-E	SP	300	LF	SAFETY FENCE
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING	3215000000-N	862	4	EA	GUARDRAIL ANCHOR UNITS, TYPE III	6030000000-E	1630	1,100	CY	SILT EXCAVATION
0057000000-E	226	840	CY	UNDERCUT EXCAVATION	3270000000-N	SP	4	EA	GUARDRAIL ANCHOR UNITS, TYPE 350	6036000000-E	1631	1,260	SY	MATTING FOR EROSION CONTROL
0080000000-E	SP	1,500	TON	CLASS IV SUBGRADE STABILIZATION	3559000000-E	866	210	LF	** STRAND BARBED WIRE FENCE WITH POSTS (2)	6038000000-E	SP	1,070	SY	PERMANENT SOIL REINFORCEMENT MAT
0134000000-E	240	5	CY	DRAINAGE DITCH EXCAVATION	3563000000-E	SP	200	LF	TEMP *** WOVEN WIRE FENCE, COMPLETE W/POSTS (48")	6042000000-E	1632	20	LF	1/4" HARDWARE CLOTH
0196000000-E	270	1,600	SY	FABRIC FOR SOIL STABILIZATION	3564000000-E	866	1	EA	SINGLE GATES, *** HIGH, *** WIDE, *** OPENING (36", 20", 20")	6070000000-N	SP	12	EA	SPECIAL STILLING BASINS
0318000000-E	300	8	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	3649000000-E	876	2	TON	RIP RAP, CLASS B	6071030000-E	SP	350	LF	COIR FIBER BAFFLES
0344000000-E	310	56	LF	18" SIDE DRAIN PIPE	3656000000-E	876	710	SY	FILTER FABRIC FOR DRAINAGE	6084000000-E	1660	3	ACR	SEEDING & MULCHING
0366000000-E	310	16	LF	15" RC PIPE CULVERTS, CLASS III	4400000000-E	1110	50	SF	WORK ZONE SIGNS (STATIONARY)	6087000000-E	1660	2	ACR	MOWING
1121000000-E	520	325	TON	AGGREGATE BASE COURSE	4405000000-E	1110	100	SF	WORK ZONE SIGNS (PORTABLE)	6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
1220000000-E	545	100	TON	INCIDENTAL STONE BASE	4410000000-E	1110	40	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
1489000000-E	610	405	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	4430000000-N	1130	35	EA	DRUMS	6096000000-E	1662	75	LB	SEED FOR SUPPLEMENTAL SEEDING
1525000000-E	610	250	TON	ASPHALT CONC SURFACE COURSE, TYPE SF9.5A	4435000000-N	1135	35	EA	CONES	6108000000-E	1665	2.25	TON	FERTILIZER TOPDRESSING
1560000000-E	620	34	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	4445000000-E	1145	35	LF	BARRICADES (TYPE III)	6114000000-N	SP	2	HR	SPECIALIZED HAND MOWING
2000000000-N	806	14	EA	RIGHT OF WAY MARKERS	4450000000-N	1150	180	MD	FLAGGER	6117000000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL
2022000000-E	815	117	CY	SUBDRAIN EXCAVATION	4507000000-E	SP	220	LF	WATER FILLED BARRIER	6123000000-E	1670	0.1	ACR	REFORESTATION
2033000000-E	815	88	CY	SUBDRAIN FINE AGGREGATE	4810000000-E	1205	11,000	LF	PAINT PAVEMENT MARKING LINES (4")					
2044000000-E	815	520	LF	6" PERFORATED SUBDRAIN PIPE	6000000000-E	1605	1,350	LF	TEMPORARY SILT FENCE					
2055000000-E	815	16	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS	6006000000-E	1610	75	TON	STONE FOR EROSION CONTROL, CLASS A					
2066000000-N	815	2	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	6009000000-E	1610	415	TON	STONE FOR EROSION CONTROL, CLASS B					
2077000000-E	815	12	LF	6" OUTLET PIPE (SUBDRAINS)	6012000000-E	1610	365	TON	SEDIMENT CONTROL STONE					
2286000000-N	840	1	EA	MASONRY DRAINAGE STRUCTURES	6015000000-E	1615	2.5	ACR	TEMPORARY MULCHING					
2367000000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.29										

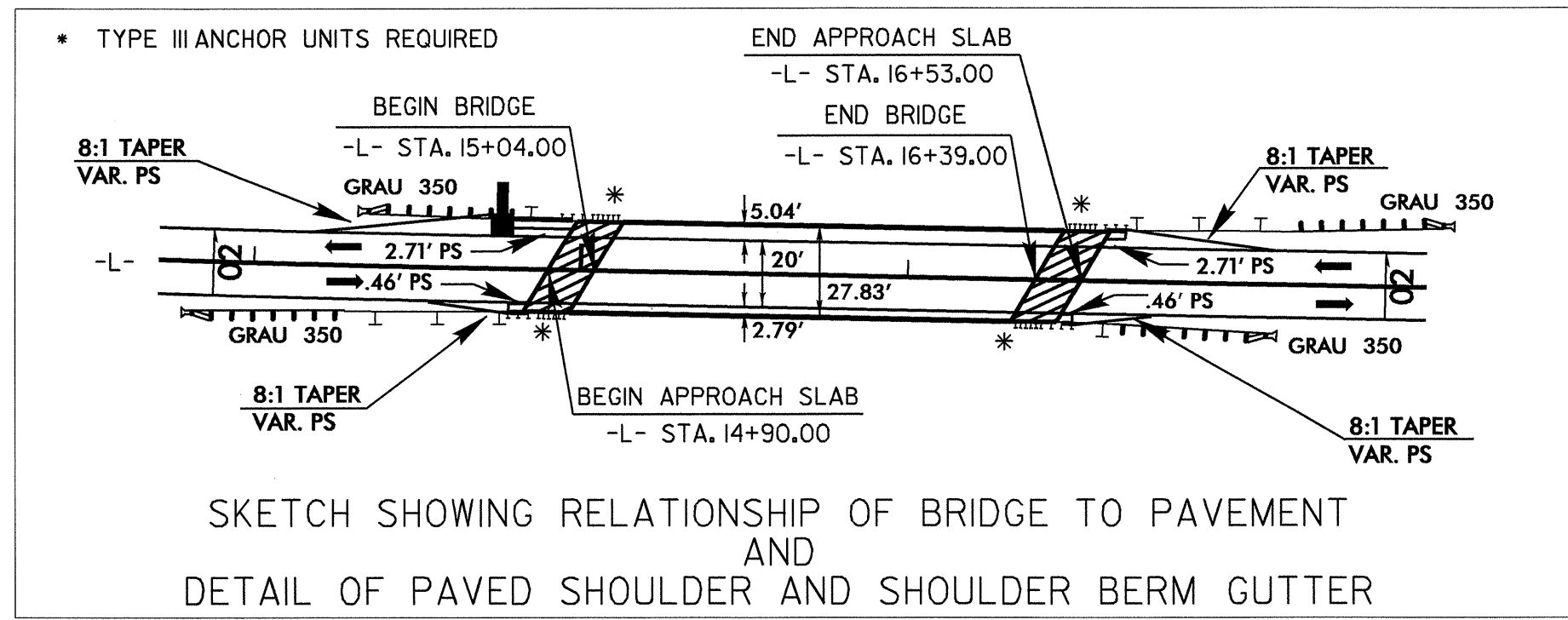
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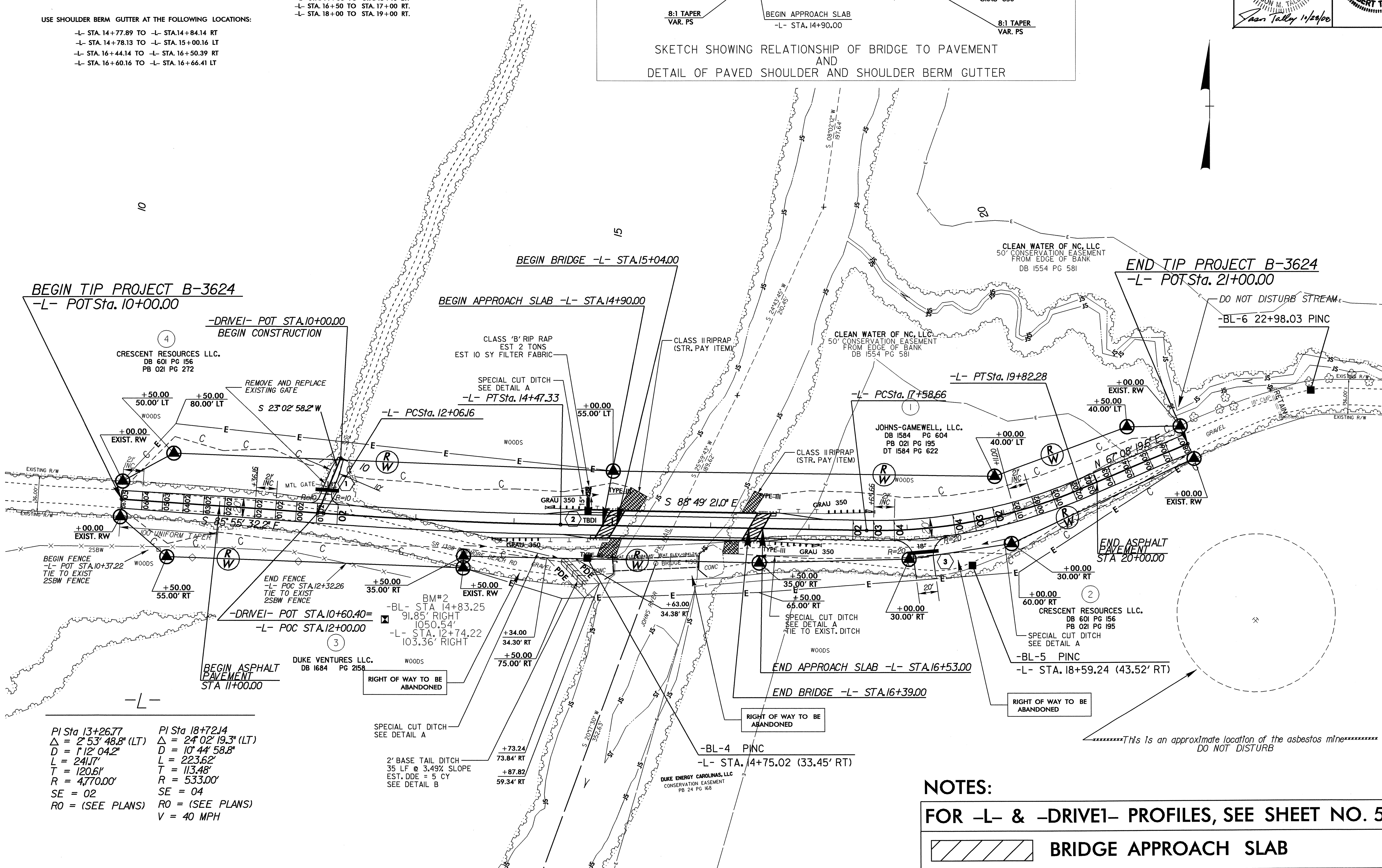


USE SHOULDER BERM GUTTER AT THE FOLLOWING LOCATIONS:

- L- STA. 14+77.89 TO -L- STA. 14+84.14 RT
- L- STA. 14+78.13 TO -L- STA. 15+00.16 LT
- L- STA. 16+44.14 TO -L- STA. 16+50.39 RT
- L- STA. 16+60.16 TO -L- STA. 16+66.41 LT



REVISIONS



PI Sta 13+26.77
 $\Delta = 2' 53'' 48.8''$ (LT)
 $D = 1' 12'' 04.2''$
 $L = 241.7'$
 $T = 120.61'$
 $R = 4,770.00'$
 $SE = 02$
 $RO =$ (SEE PLANS)

PI Sta 18+72.14
 $\Delta = 24' 02'' 19.3''$ (LT)
 $D = 10' 44'' 58.8''$
 $L = 223.62'$
 $T = 113.48'$
 $R = 533.00'$
 $SE = 04$
 $V = 40$ MPH

2' BASE TAIL DITCH
 35 LF @ 3.49% SLOPE
 EST. DDE = 5 CY
 SEE DETAIL B

NOTES:

FOR -L- & -DRIVE1- PROFILES, SEE SHEET NO. 5

BRIDGE APPROACH SLAB

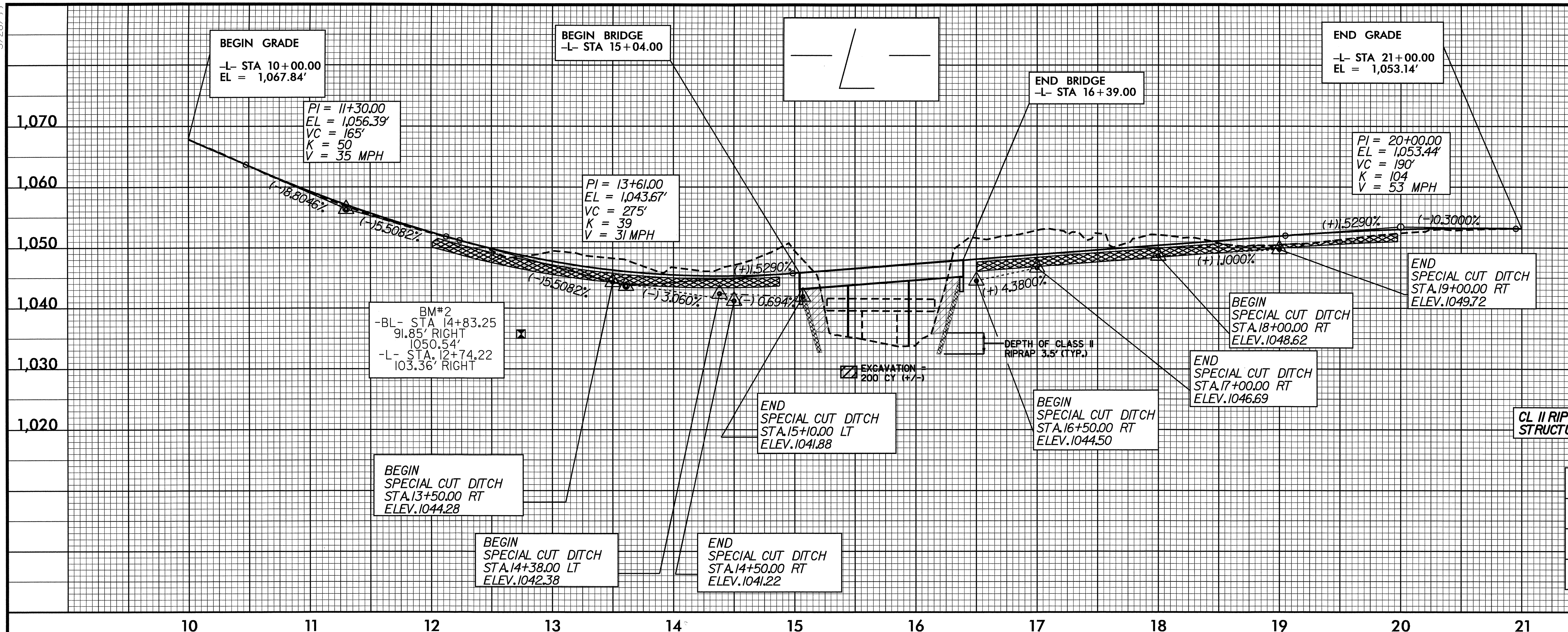
FOR STRUCTURE PLANS, SEE SHEET S-1 THRU S-28

*****This is an approximate location of the asbestos mine*****
 DO NOT DISTURB

28-OCT-2008 13:52 C:\roadwork\B3624\rdy_1_psh\04.dgn

5/28/99

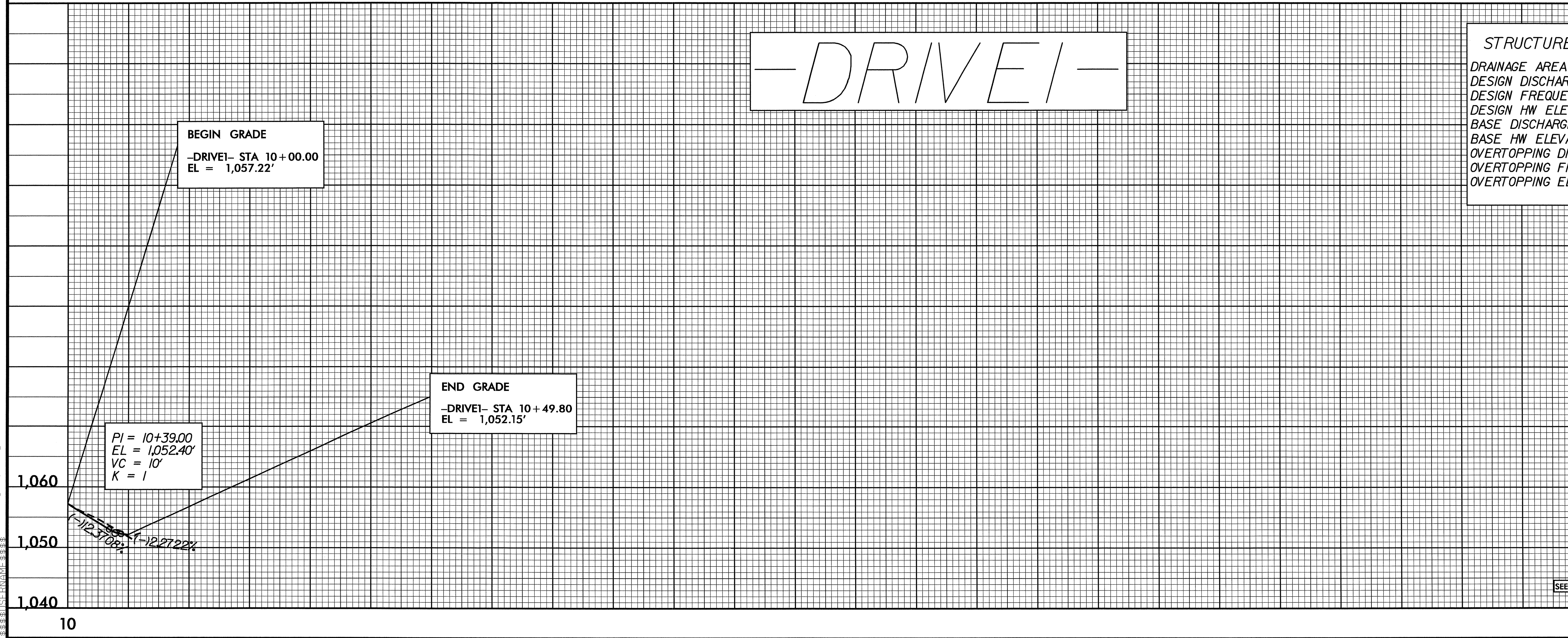
PROJECT REFERENCE NO. B-3624	SHEET NO. 5
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 028473 JASON M. TALLEY 6-20-08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 11162 ROBERT TURNER, JR. 6-24-08



DITCH LEGEND

LEFT DITCH	-----
RIGHT DITCH	-----
UNDERCUT	▨

-DRIVE1-



STRUCTURE HYDRAULIC DATA

DRAINAGE AREA	= 114	SQ MI
DESIGN DISCHARGE	= 3900	CFS
DESIGN FREQUENCY	= 2	YRS
DESIGN HW ELEVATION	= 1044.0	FT
BASE DISCHARGE	= 18000	CFS
BASE HW ELEVATION	= 1055.5	FT
OVERTOPPING DISCHARGE	= 6721	CFS
OVERTOPPING FREQUENCY	= 5+	YRS
OVERTOPPING ELEVATION	= 1046.0	FT

SEE SHEET 4 FOR -L- & -DRIVE1- ALIGNMENTS

16 JUN 2008 15:29 16j3624_rdy_1.plt.dgn