

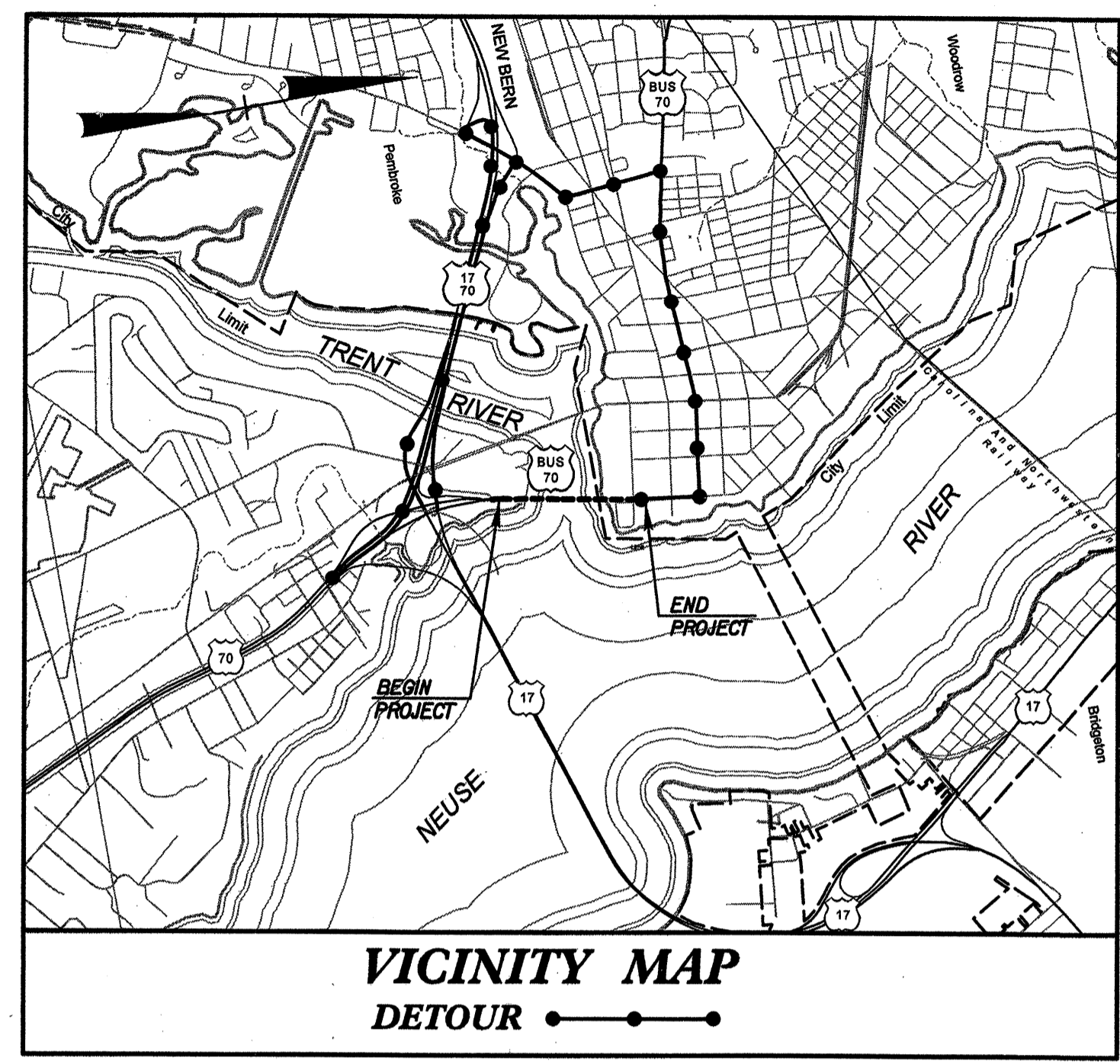
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-2532	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
32649.1.1	BRSTP-070B(4)	PE	
32649.2.2	BRSTP-070B(4)	UTIL.	
32649.3.1	BRSTP-070B(4)	CONST.	

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
CRAVEN COUNTY

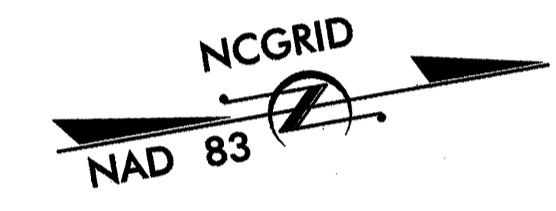
LOCATION: Bridge No. 60 Over Trent River on US 70 BUSINESS

TYPE OF WORK: Grading, Drainage, Paving, Structures & Signals.

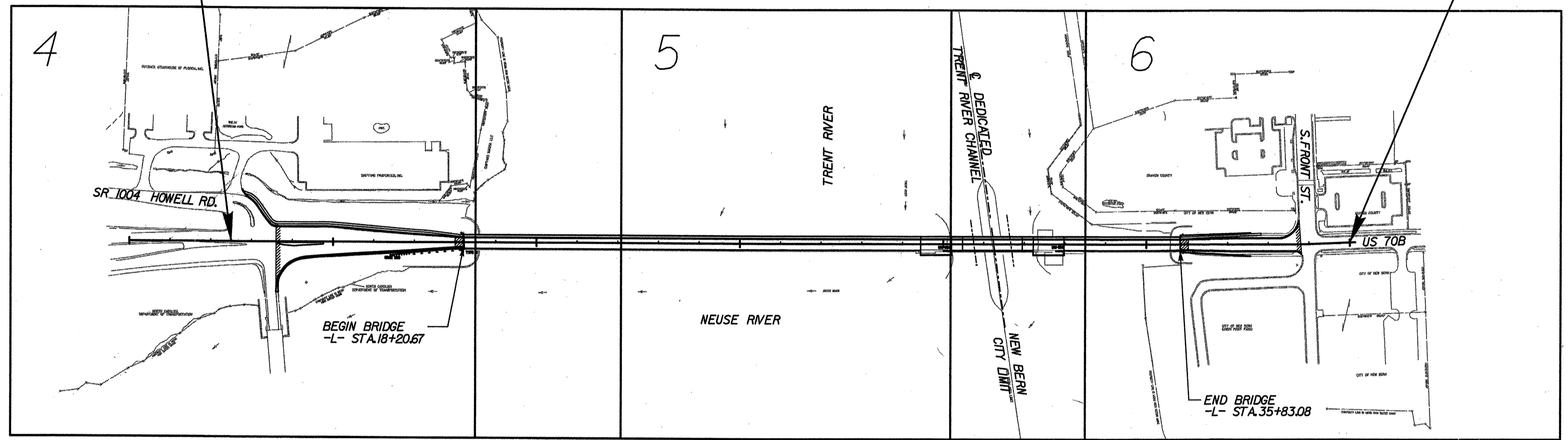
See Sheet 1-A For Index of Sheets



BEGIN TIP PROJECT B-2532
 BEGIN CONSTRUCTION
 -L- STA. 12+50.00

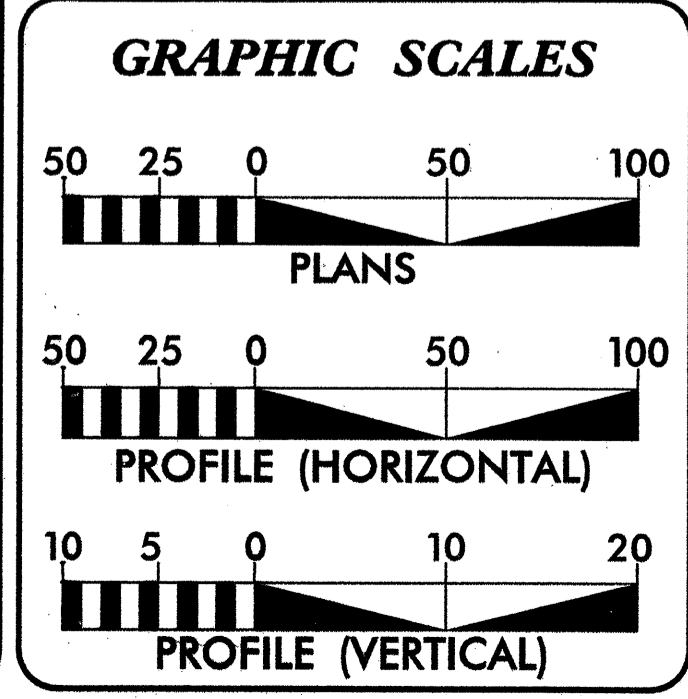


END TIP PROJECT B-2532
 END CONSTRUCTION
 -L- STA. 40+00.00



TIP PROJECT: B-2532

CONTRACT: C201581



DESIGN DATA

ADT 2004 =	16,200
ADT 2030 =	30,600
DHV =	10 %
D =	65 %
T =	3 % *
V =	40 MPH
FUNCTIONAL CLASS:	
LOCAL URBAN	
* TTST 1%	DUAL 2%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-2532 =	.19 MI.
LENGTH STRUCTURE TIP PROJECT B-2532 =	.33 MI.
TOTAL LENGTH TIP PROJECT B-2532 =	.52 MI.

Prepared In the Office of:

HNTB
 2006 STANDARD SPECIFICATIONS
 HNTB NORTH CAROLINA, P.C.
 343 E. SIX FORKS ROAD, SUITE 200
 Raleigh, North Carolina 27609

RIGHT OF WAY DATE:
 MARCH 31, 2006

LETTING DATE:
 FEBRUARY 20, 2007

ENRICO A. ROQUE, P.E.
 PROJECT ENGINEER

SCOTT YARLEY, P.E.
 PROJECT DESIGN ENGINEER

NCDOT CONTACT
B. DOUG TAYLOR, P.E.
 PROJECT ENGINEER
 ROADWAY DESIGN

HYDRAULICS ENGINEER

[Signature]
 SIGNATURE: 10/25/06

ROADWAY DESIGN ENGINEER

[Signature]
 SIGNATURE: 10/25/06

Professional Engineer Seals for both roles.

DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA

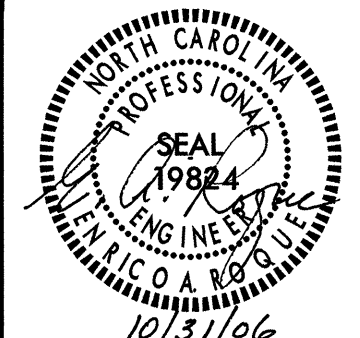
[Signature]
 STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION

APPROVED DIVISION ADMINISTRATOR

DATE

\$\$\$\$\$SYTIME\$\$\$\$\$DDGN\$\$\$\$\$USERNAME\$\$\$\$\$

PROJECT REFERENCE NO. B-2532	SHEET NO. 1-A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
	

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES & LIST OF STANDARDS
1-B	SYMBOLOLOGY SHEET
1-C	SURVEY CONTROL SHEET
2 & 2-A	TYPICAL SECTION SHEETS
2-B	BRIDGE PLAN DETAIL SHEET
2-C	LEVEL SPREADER DETAIL SHEET
2-D	DETAIL OF TRANSITION SECTION FROM 2'-6" CURB & GUTTER TO 6" x 8" APPROACH SLAB CURB
3	SUMMARY OF QUANTITIES SHEET
3-A	SUMMARY OF EARTHWORK, PAVEMENT REMOVAL, LIST OF PIPES & GUARDRAIL
4 THRU 6	PLAN SHEETS
7	PROFILE SHEET
TCP-1 THRU TCP-6	TRAFFIC CONTROL PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-7	EROSION CONTROL PLANS
RF-1	REFORESTATION PLANS
SIGN-1 THRU SIGN-12	SIGNING PLANS
SIG-1 THRU SIG-12	SIGNAL PLANS
UC-1 THRU UC-7	UTILITY CONSTRUCTION PLANS
UO-1	UTILITY PLANS BY OTHERS
X-0	CROSS SECTION SUMMARY SHEET
X-1 THRU X-5	-L- CROSS SECTION SHEETS
(VOL 1 OF 3) S-1 THRU S-118	BRIDGE APPROACH SPANS AND RETAINING WALLS
(VOL 2 OF 3) B-100 THRU B-198	BASCULE SPAN BRIDGE DRAWINGS
(VOL 3 OF 3) { B-200 THRU B-222	CONTROL HOUSE / ELECTRICAL ROOM
{ M-1 THRU M-18	MECHANICAL DRAWINGS
{ E-1 THRU E87	ELECTRICAL DRAWINGS

STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS APPEAR IN "ROADWAY STANDARD DRAWINGS" HIGHWAY DESIGN BRANCH - NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH, NC, DATED JULY 18 2006 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE ARE HEREBY CONSIDERED PART OF THESE PLANS:

<u>STD. NO.</u>	<u>TITLE</u>
200.03	METHOD OF CLEARING - METHOD III
225.02	GUIDE FOR GRADING SUBGRADE - SECONDARY AND LOCAL
300.01	METHOD OF PIPE INSTALLATION - METHOD 'A'
422.10	REINFORCED BRIDGE APPROACH FILLS
815.03	PIPE UNDERDRAIN AND BLIND DRAIN
816.04	MARKERS FOR DRAINAGE STRUCTURE AND CONCRETE PAD
840.00	CONCRETE BASE PAD FOR DRAINAGE STRUCTURES
840.01	BRICK CATCH BASIN - 12" THRU 54" PIPE
840.02	CONCRETE CATCH BASIN - 12" THRU 54" PIPE
840.03	FRAME, GRATES AND HOOD - FOR USE ON STANDARD CATCH BASIN
840.45	PRECAST DRAINAGE STRUCTURE
840.66	DRAINAGE STRUCTURE STEPS
846.01	CONCRETE CURB, GUTTER AND CURB & GUTTER
848.01	CONCRETE SIDEWALK
848.04	STREET TURNOUT
848.05	WHEELCHAIR RAMP - CURB CUT
848.06	WHEELCHAIR RAMP & EXISTING SIDEWALK - CURB CUT
852.01	CONCRETE ISLANDS
862.01	GUARDRAIL PLACEMENT
862.02	GUARDRAIL INSTALLATION
862.03	STRUCTURE ANCHOR UNITS
876.02	GUIDE FOR RIP RAP AT PIPE OUTLETS

GENERAL NOTES:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD III.

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 SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.

STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADII NOTED ON PLANS.

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.

SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

UTILITY OWNERS ON THIS PROJECT ARE THE CITY OF NEW BERN & SPRINT - TELEPHONE.

ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.

WHEELCHAIR RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. THE CONSTRUCTION OF ALL WHEELCHAIR RAMPS SHALL BE IN ACCORDANCE WITH STD. 848.05 and STD. 848.06.

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Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

HNTB HNTB NORTH CAROLINA, P. C.
343 E. SIX FORKS ROAD, SUITE 200
Raleigh, North Carolina 27609

PROJECT REFERENCE NO. B-2532 SHEET NO. 1-B

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	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 High Quality Wetland Boundary	—HQ 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	-----
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Swamp Marsh	-----
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	⊕
Baseline GPS Point	⊕
Benchmark	⊕
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	-----
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	-----

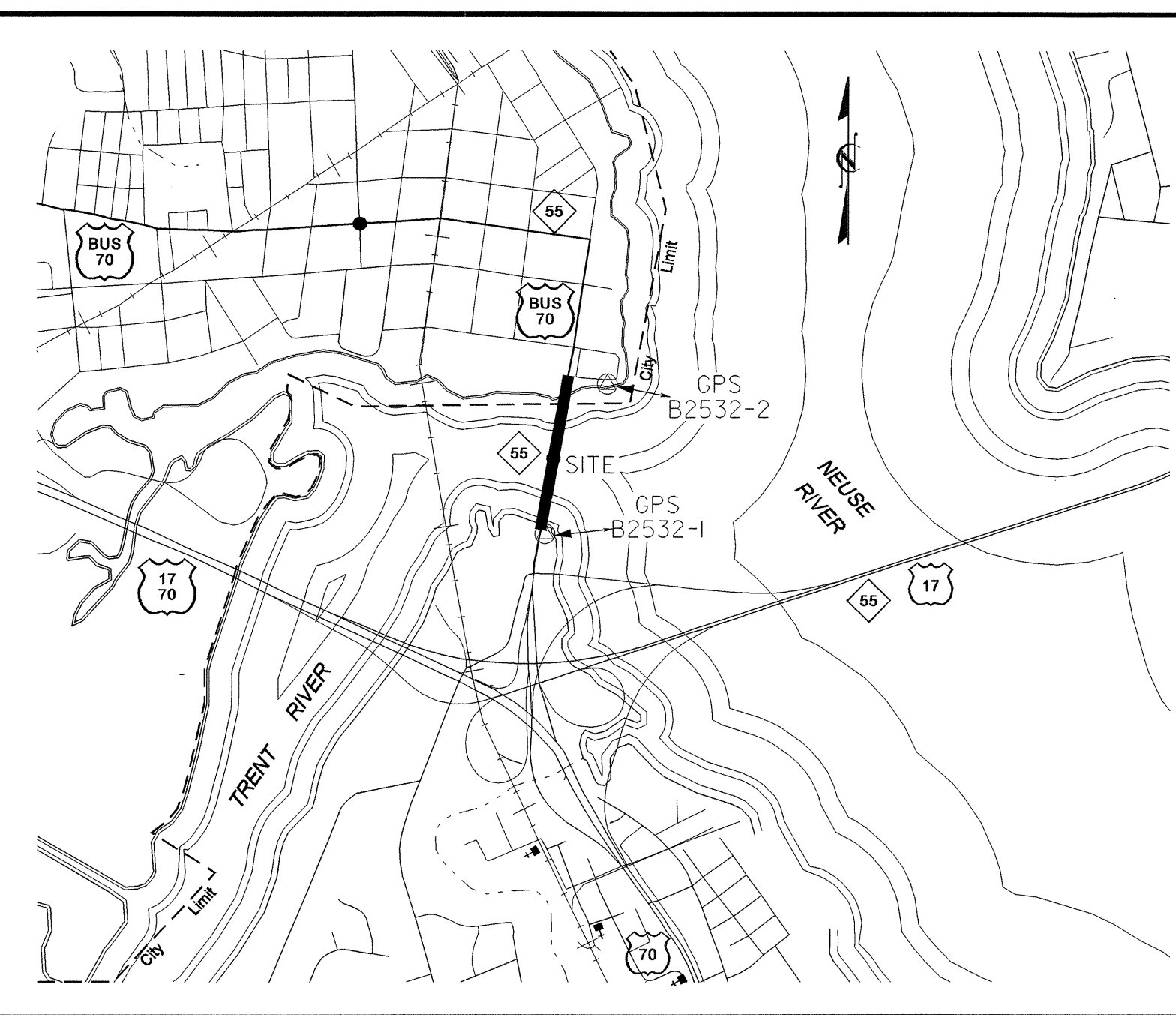
SANITARY SEWER:

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	-----
AG 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-2532

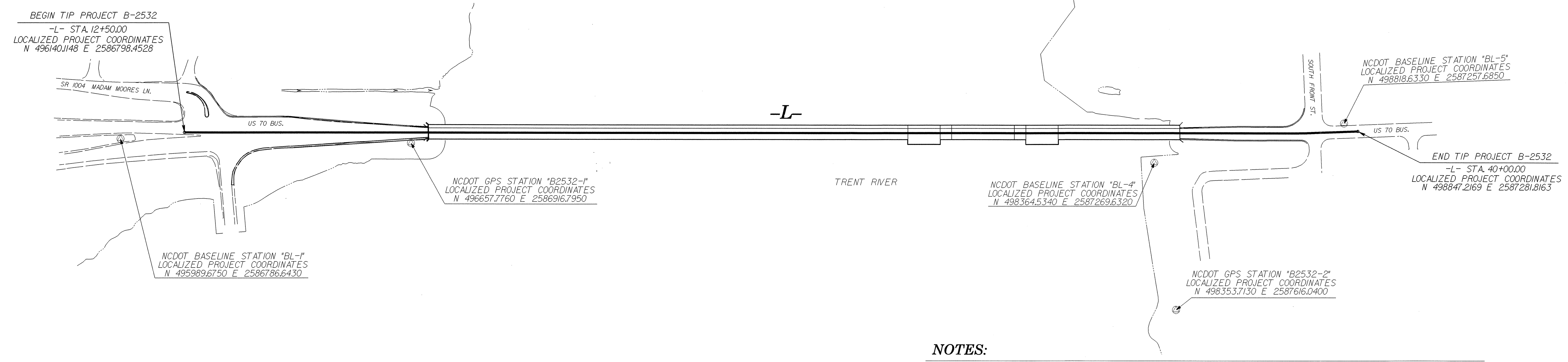
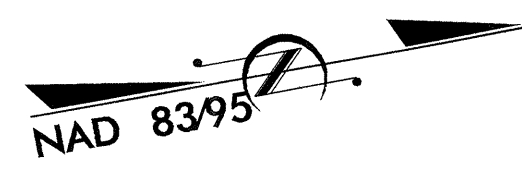


VICINITY MAP

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	BL-1	495989.6750	2586786.6430	9.75	10+99.85	15.08 RT
2	GPS B2532-1	496657.7760	2586916.7950	10.43	17+80.45	24.57 RT
3	GPS B2532-2	498353.7130	2587616.0400	3.17	35+73.58	411.66 RT
4	BL-4	498364.5340	2587269.6320	3.02	35+22.73	68.83 RT
5	BL-5	498818.6330	2587257.6850	4.05	39+68.32	19.89 LT

.....
 BM1 ELEVATION = 7.14
 N 496127 E 2586524
 L STATION 11+88 268 LEFT
 RR SPIKE IN NORTHEAST CORNER OF PAVED
 PARKING AREA OF OUTBACK RESTURANT

.....
 BM2 ELEVATION = 5.82
 N 498817 E 2587115
 L STATION 39+46 161 LEFT
 RR SPIKE IN SOUTHWEST CORNER OF PAVED
 PARKING AREA IN NORTHWEST QUADRANT OF
 FRONT STREET & TRYON PALACE DRIVE
 INTERSECTIONS.



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/B2532](http://www.doh.dot.state.nc.us/preconstruct/highway/location/project/B2532)
 THE FILES TO BE FOUND ARE AS FOLLOWS:
B2532_LS_CONTROL_060829.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)

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "GPS B2532-1"
 WITH NAD 1983/95 STATE PLANE GRID COORDINATES OF
 NORTHING: 496657.7760(FT) EASTING: 2586916.7950(FT)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.9998814730
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "GPS B2532-1" TO -L- STATION 12+50.00 IS
 S 12°52'37.5" W 531.016 (FT)
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88

NOTE: DRAWING NOT TO SCALE

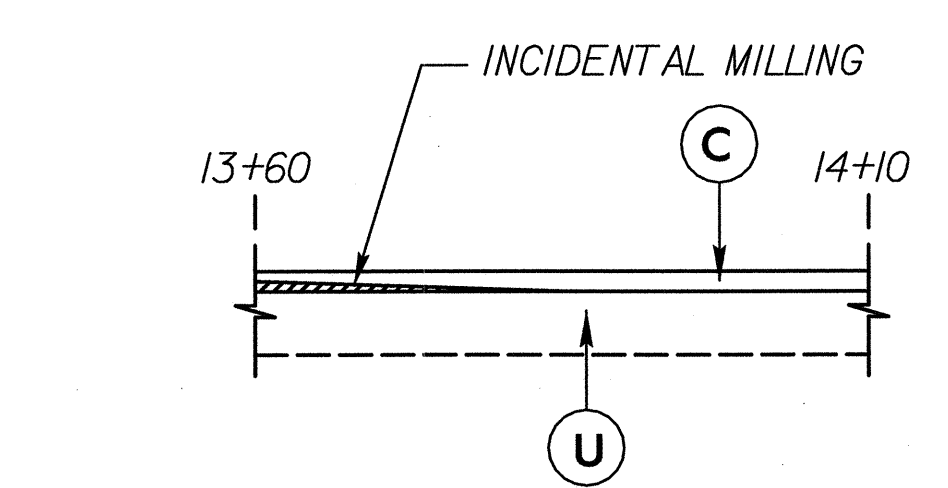
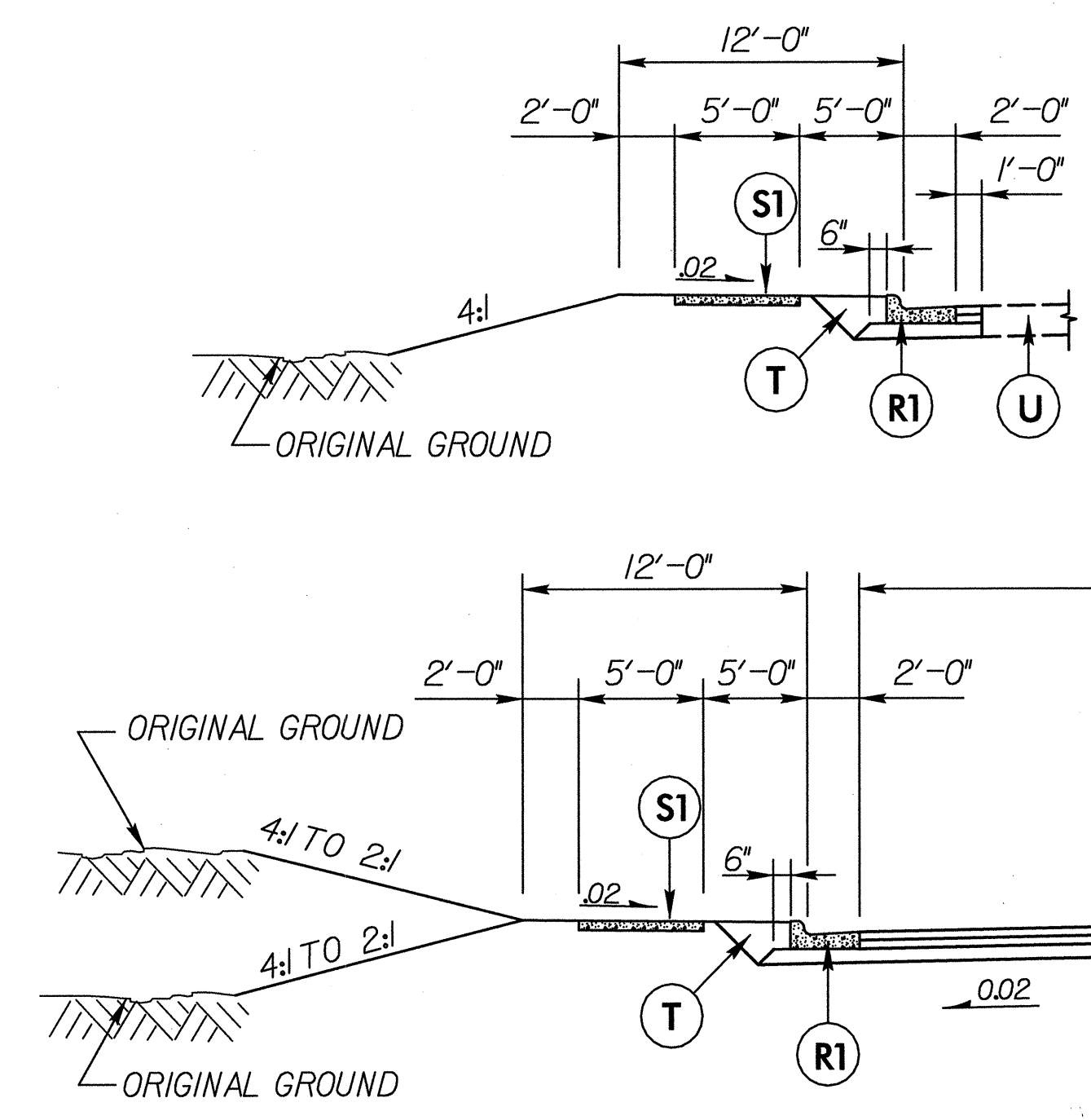
22-SEP-2006 08:50
 ee tttings \csm\therman\desk\top\sm\therman\b2532-1s-1c-060829.dgn
 8:54:05 PM DATE: 8/22/06

6/2/99

N.T.S.

PROJECT REFERENCE NO. B-2532	SHEET NO. 2
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	PAVEMENT DESIGN ENGINEER <i>[Signature]</i>
<i>[Professional Seal]</i>	<i>[Professional Seal]</i>

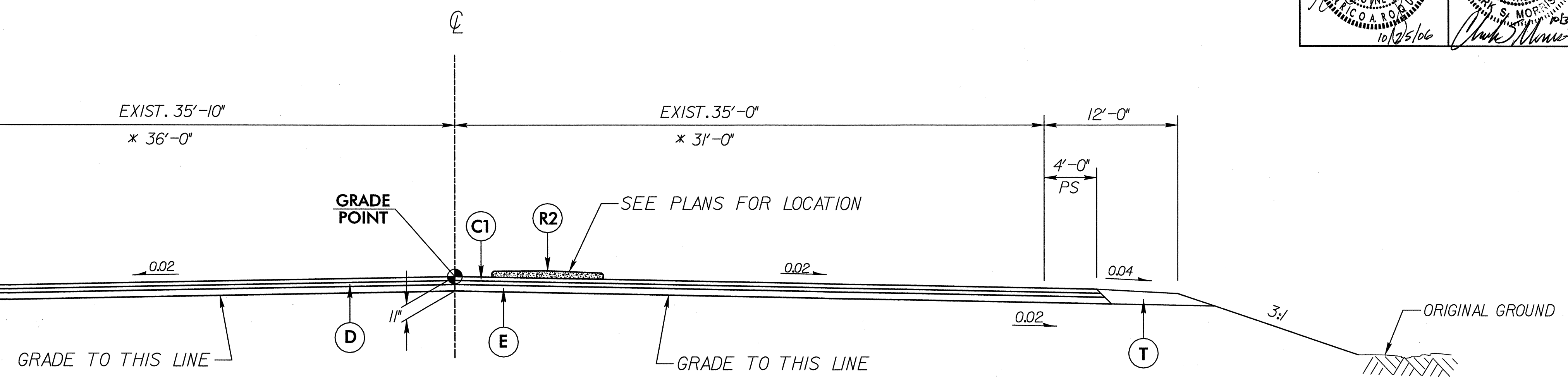
USE DETAIL NO. 1 :
CONST. 2'-6" C&G WITH SIDEWALK
-L- STA. 12+76 TO -L- STA. 13+60



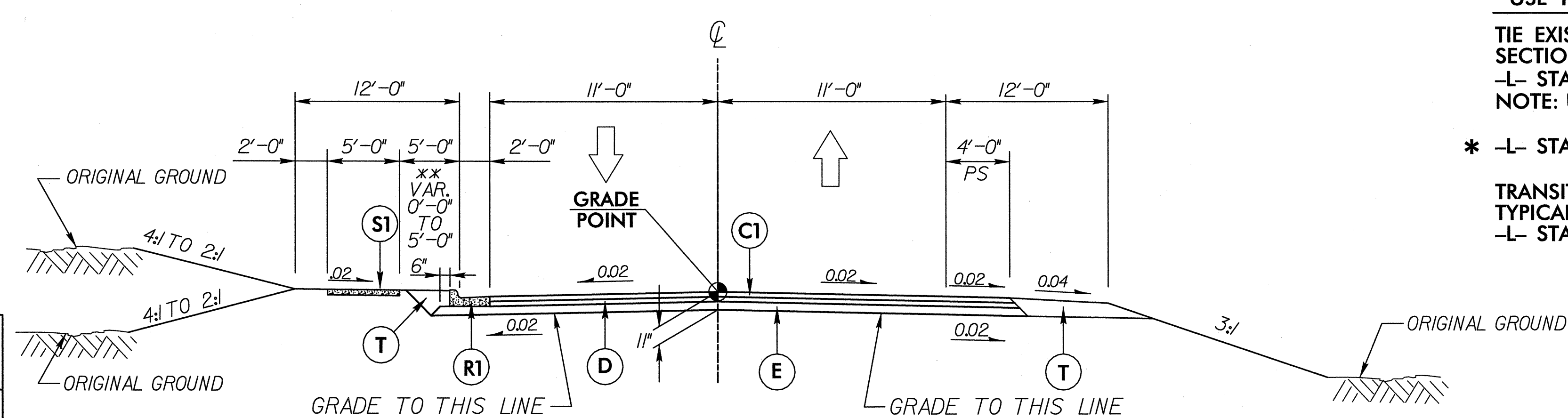
RESURFACING DETAIL NO. 2
-L- STA 13+60 TO -L- STA 14+50
NOTE: USE 1 1/2" TYPE S9.5B FOR RESURFACING

PAVEMENT SCHEDULE	
C	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
D	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R1	2'-6" CONCRETE CURB & GUTTER
R2	5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
S1	4" MONOLITHIC CONCRETE SIDEWALK
S2	6" MONOLITHIC CONCRETE SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT

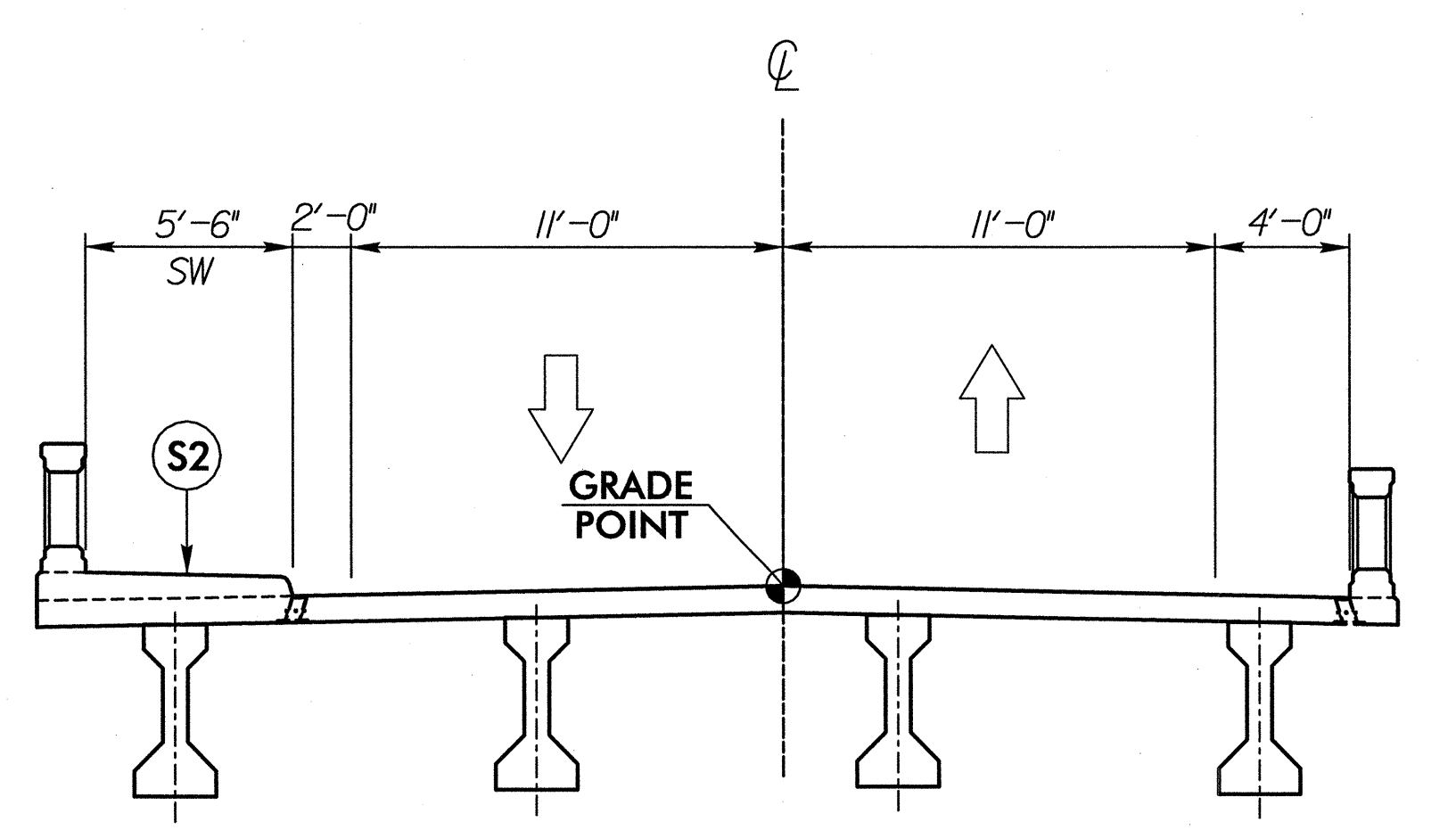
ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



TYPICAL SECTION NO. 1



TYPICAL SECTION NO. 2



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 1 :
TIE EXIST. PAVEMENT TO TYPICAL SECTION NO. 1
-L- STA. 13+60 TO -L- STA. 14+50
NOTE: USE 1.5" S9.5B OVERLAY
*** -L- STA. 14+50 TO -L- STA. 15+00**
TRANSITION TYPICAL SECTION NO. 1 TO TYPICAL SECTION NO. 2 FROM -L- STA. 15+00 TO -L- STA. 17+30 ±

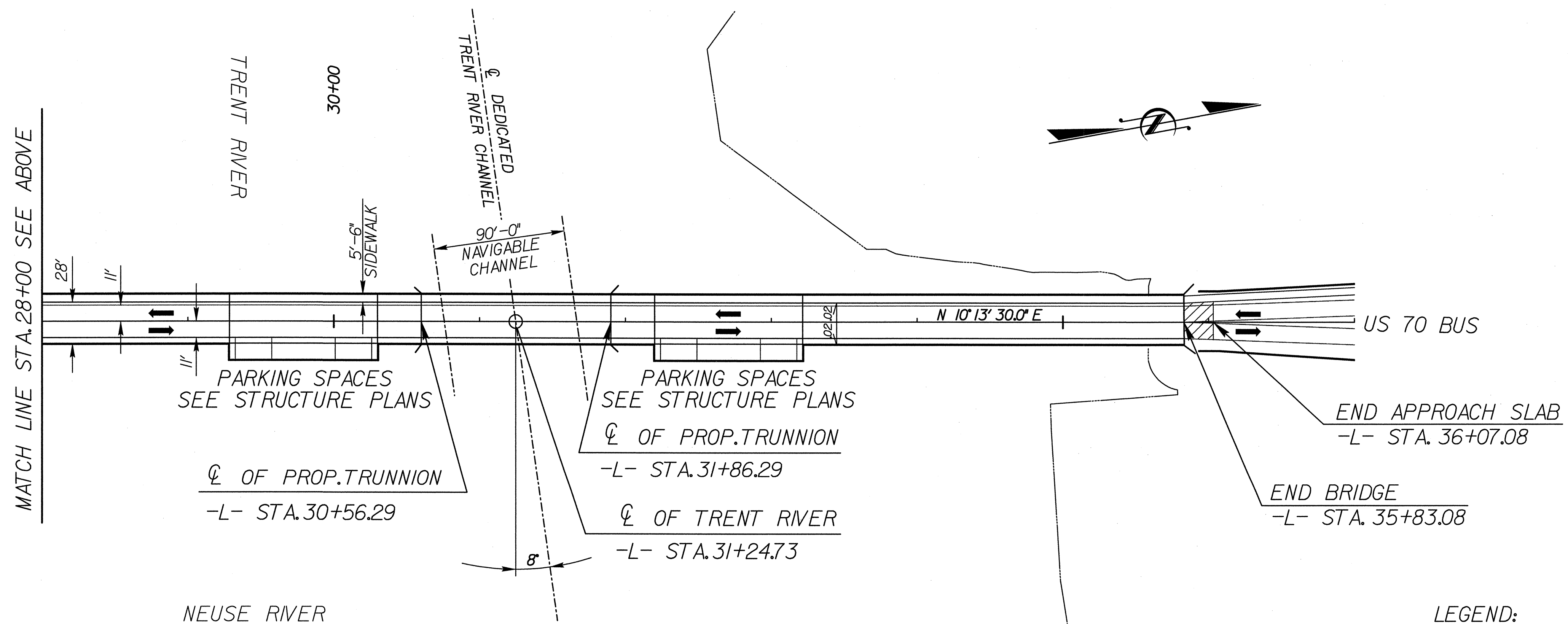
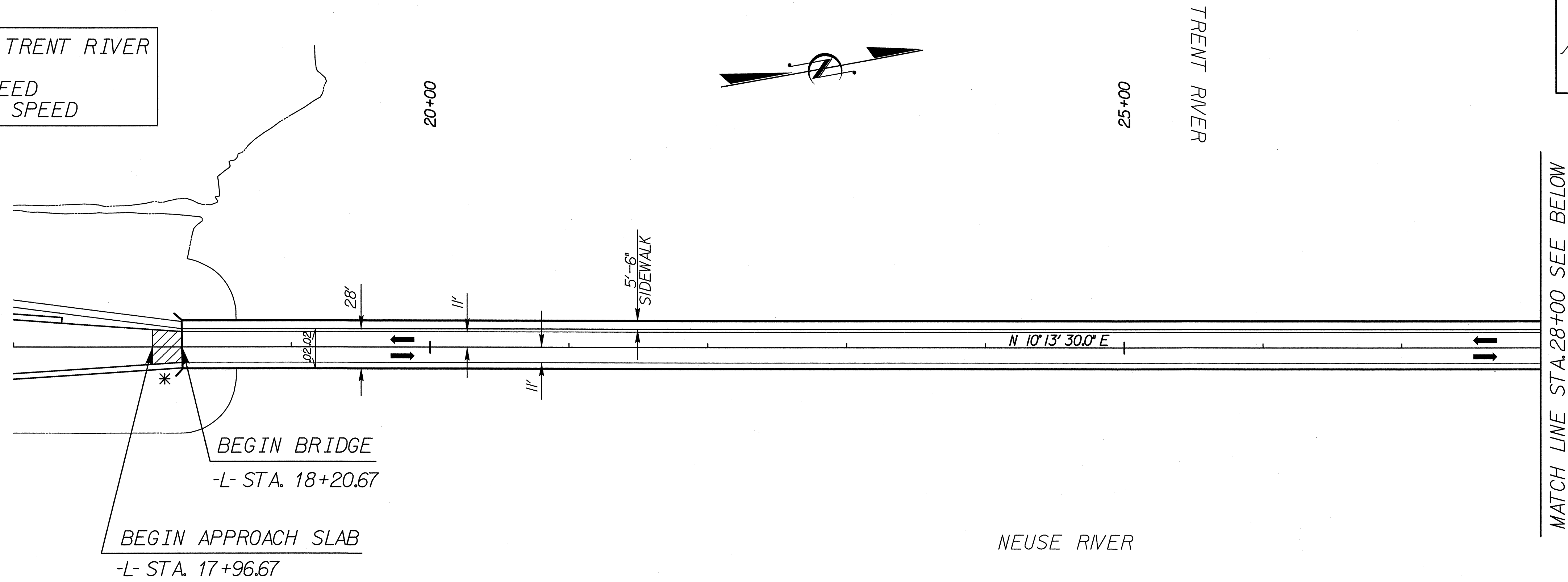
USE TYPICAL SECTION NO. 2 :
TRANSITION TYPICAL NO. 2 TO TYPICAL SECTION NO. 3
**** -L- STA. 17+30 ± TO -L- STA. 18+20.67 BEGIN BRIDGE**

USE TYPICAL SECTION NO. 3 :
-L- STA. 18+20.67 BEGIN BRIDGE TO -L- STA. 35+83.08 END BRIDGE

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SKETCHES SHOWING PAVEMENT-BRIDGE RELATIONSHIPS

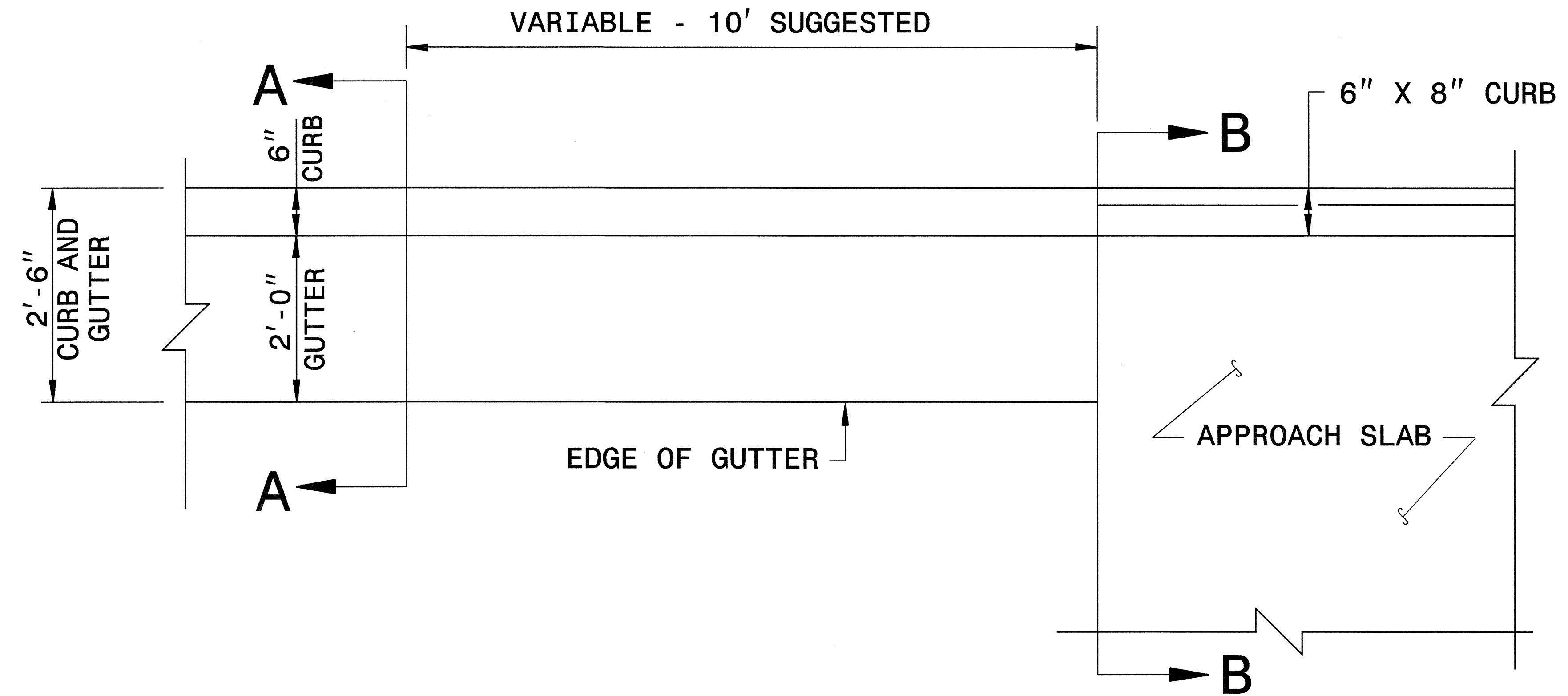
-L- US 70 BUS. OVER TRENT RIVER
 (LOCAL SYSTEM)
 40 MPH DESIGN SPEED
 35/25 MPH POSTED SPEED



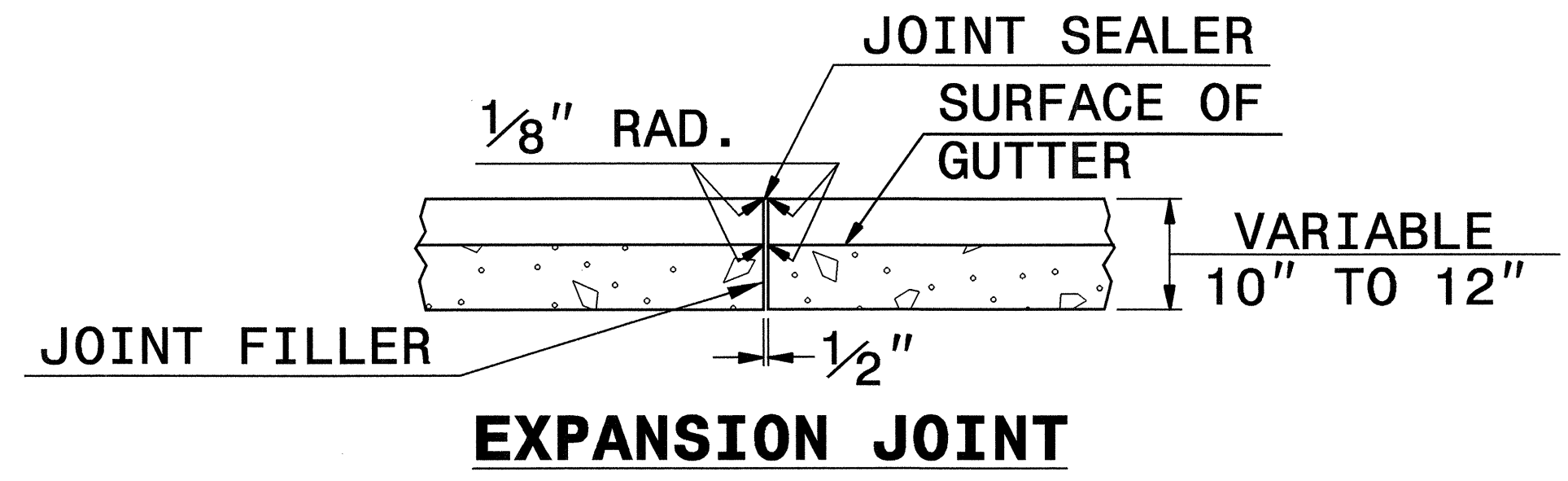
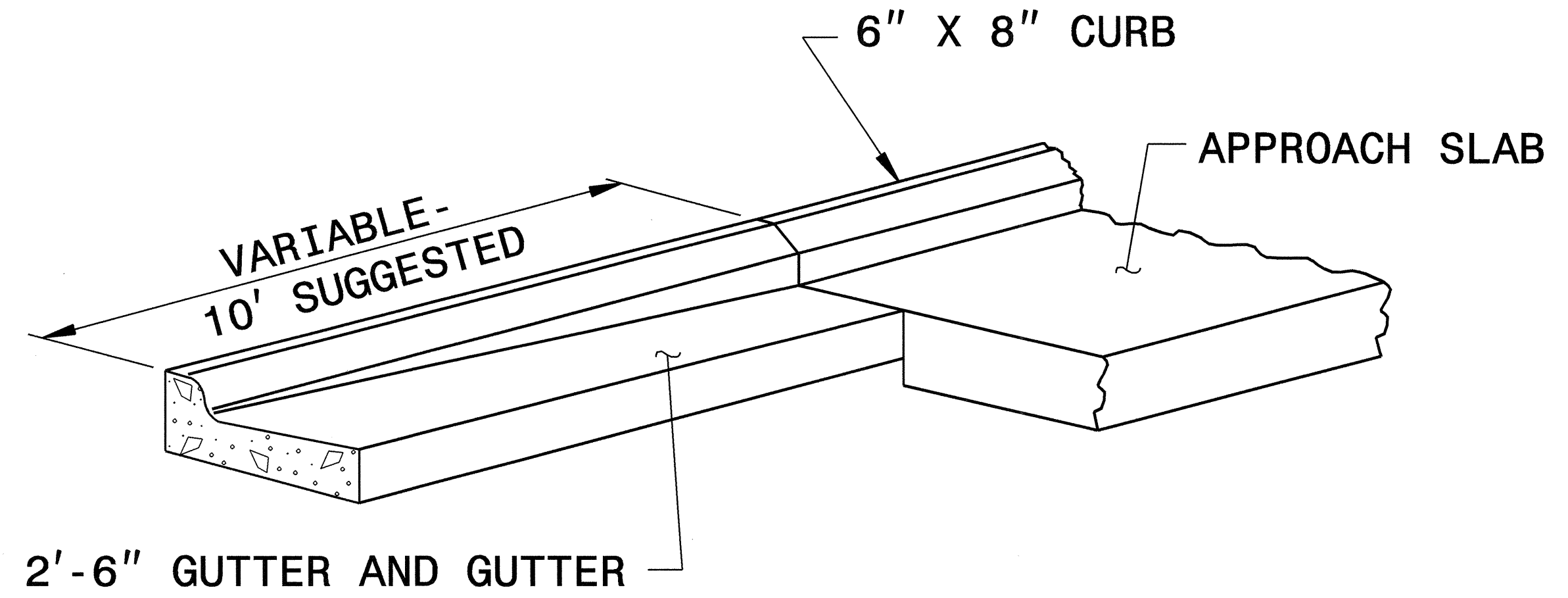
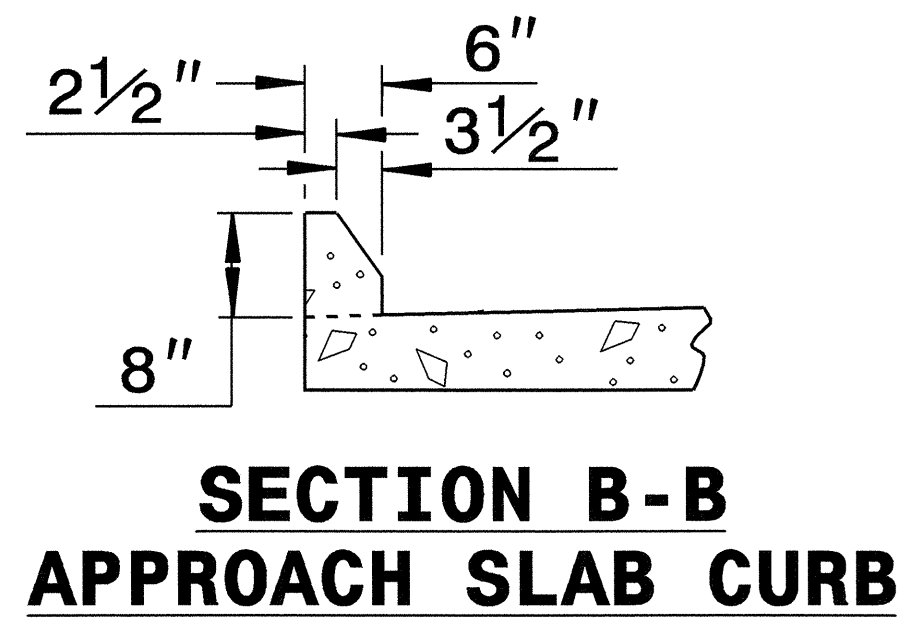
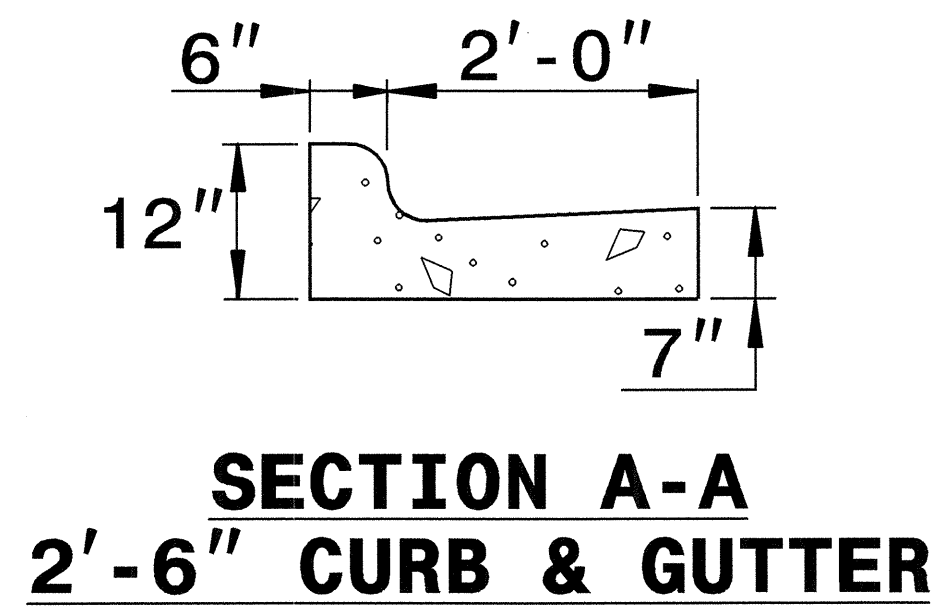
LEGEND:

- * - GUARDRAIL ANCHORS REQ'D.
- BRIDGE APPROACH SLAB REQUIRED

SYSTEM DESIGN
 10/25/06



**PLAN VIEW OF TRANSITION
SHOULDER BERM GUTTER TO APPROACH SLAB CURB**

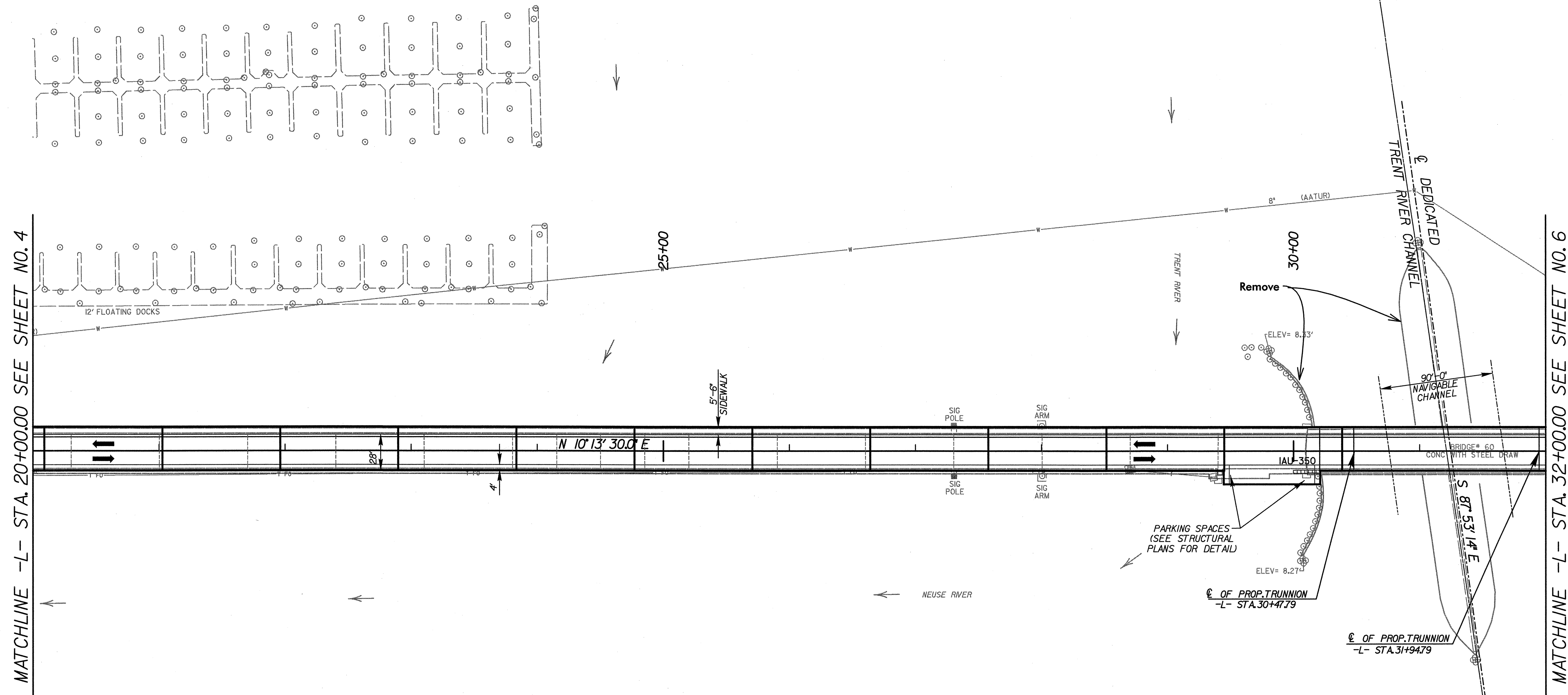
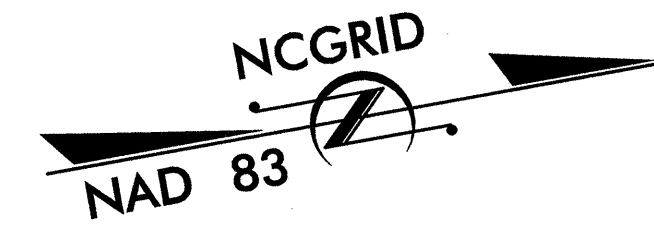


- NOTES:**
- PLACE EXPANSION JOINTS BETWEEN 2'-6" CURB & GUTTER AND TRANSITION AND APPROACH SLAB.
 - FILL AND SEAL THE EXPANSION JOINTS WITH APPROVED JOINT SEALING COMPOUND.



PROJECT SERVICES UNIT STANDARDS AND SPECIAL DESIGN	
Office 919-250-4128 FAX 919-250-4119	
TRANSITION FROM 2'-6" CURB AND GUTTER TO 6" X 8" APPROACH SLAB CURB	
ORIGINAL BY: I.S. Spell	DATE: 11-01
MODIFIED BY: E.E. Ward	DATE: 10-06
CHECKED BY: <i>[Signature]</i>	DATE: 10/29/06
FILE SPEC: <i>[Signature]</i>	

27-OCT-2006 09:43
 S:\Contractors\Special_Details\ventward\user\debauls\stand\cgtransit.dgn
 PLOT AT F:\2006\273

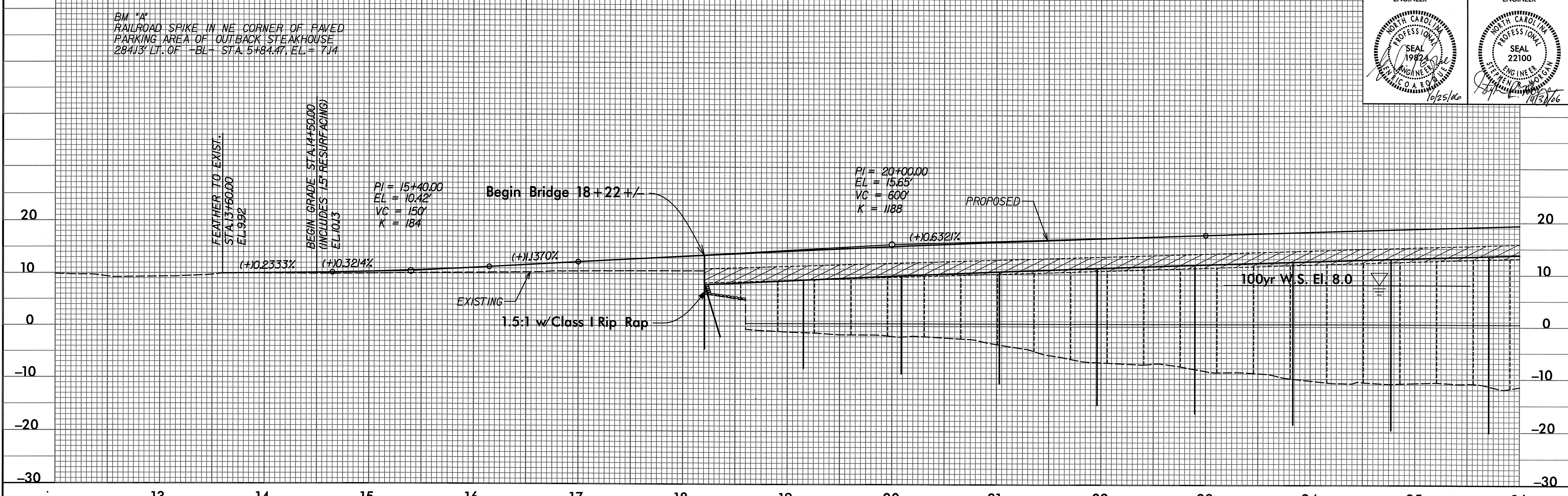


NOTE:
 FOR -L- PROFILE, SEE SHEET No. 7.
 FOR STRUCTURE PLANS, SEE SHEET NO. TO SHEET NO.

SYSTEMS DESIGN
 CONSULTANTS

5/28/99

PROJECT REFERENCE NO. B-2532	SHEET NO. 7
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

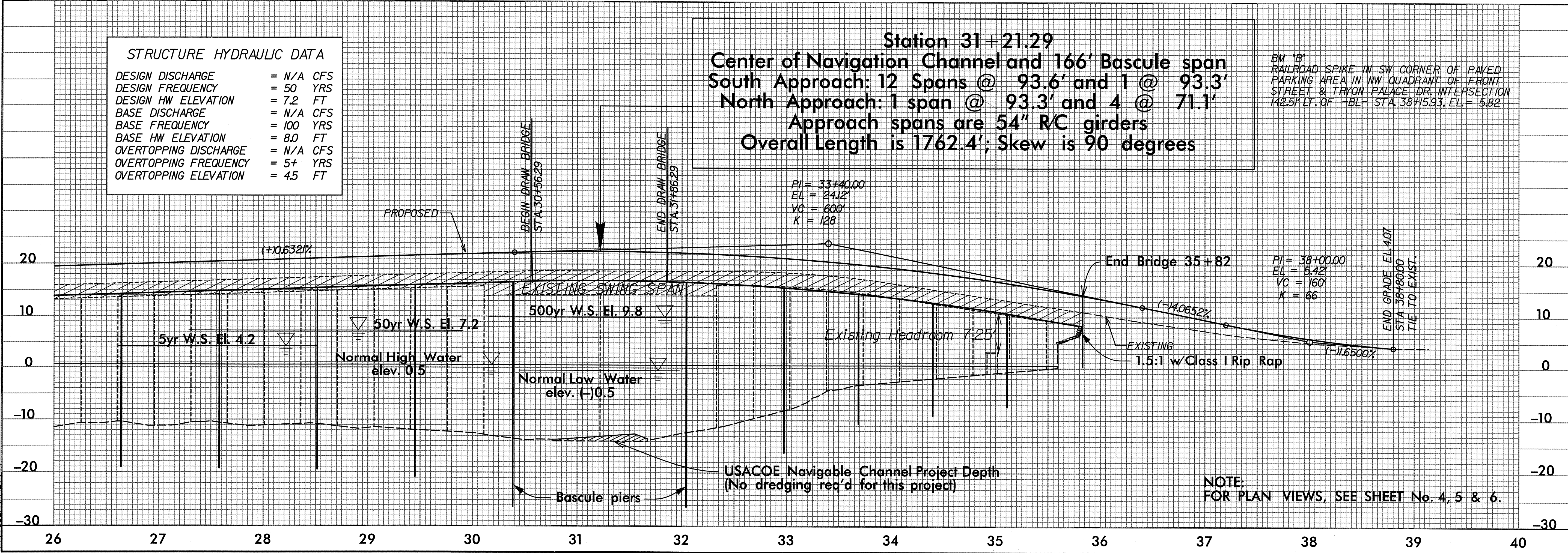


STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= N/A CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 7.2 FT
BASE DISCHARGE	= N/A CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 8.0 FT
OVERTOPPING DISCHARGE	= N/A CFS
OVERTOPPING FREQUENCY	= 5+ YRS
OVERTOPPING ELEVATION	= 4.5 FT

Station 31+21.29
Center of Navigation Channel and 166' Bascule span
 South Approach: 12 Spans @ 93.6' and 1 @ 93.3'
 North Approach: 1 span @ 93.3' and 4 @ 71.1'
 Approach spans are 54" R/C girders
 Overall Length is 1762.4'; Skew is 90 degrees

BM "B"
 RAILROAD SPIKE IN SW CORNER OF PAVED
 PARKING AREA IN NW QUADRANT OF FRONT
 STREET & TRYON PALACE DR. INTERSECTION
 142.5' LT. OF -BL- STA. 38+5.93, EL. = 5.82



SYSTEMS DESIGN