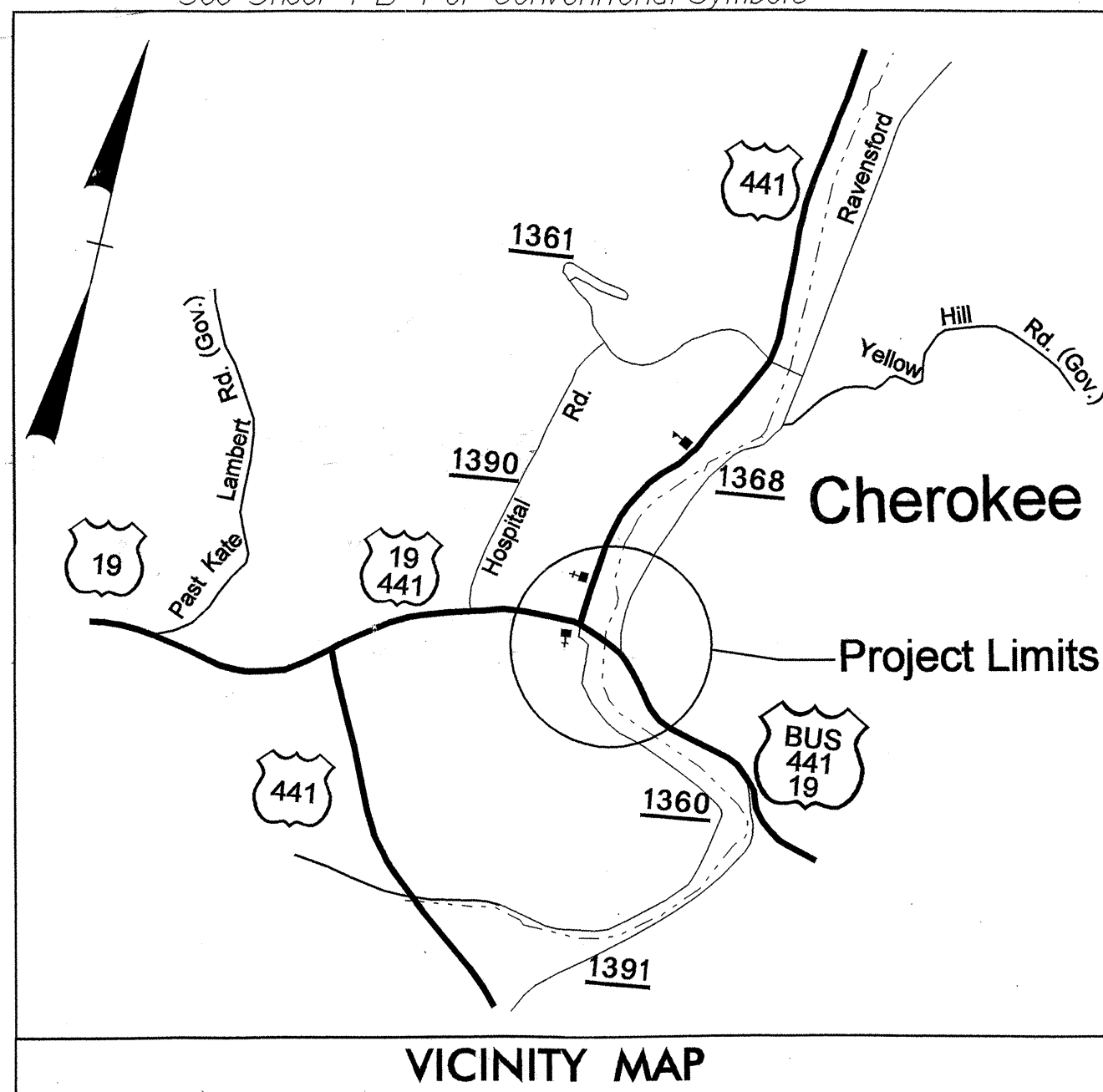


09/08/09
 CONTRACT: C200794 TIP PROJECT: B-4696
 29-MAR-2006 07:43
 L:\PROJECTS\4696\TSH
 \$\$\$USERNAME\$\$\$

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



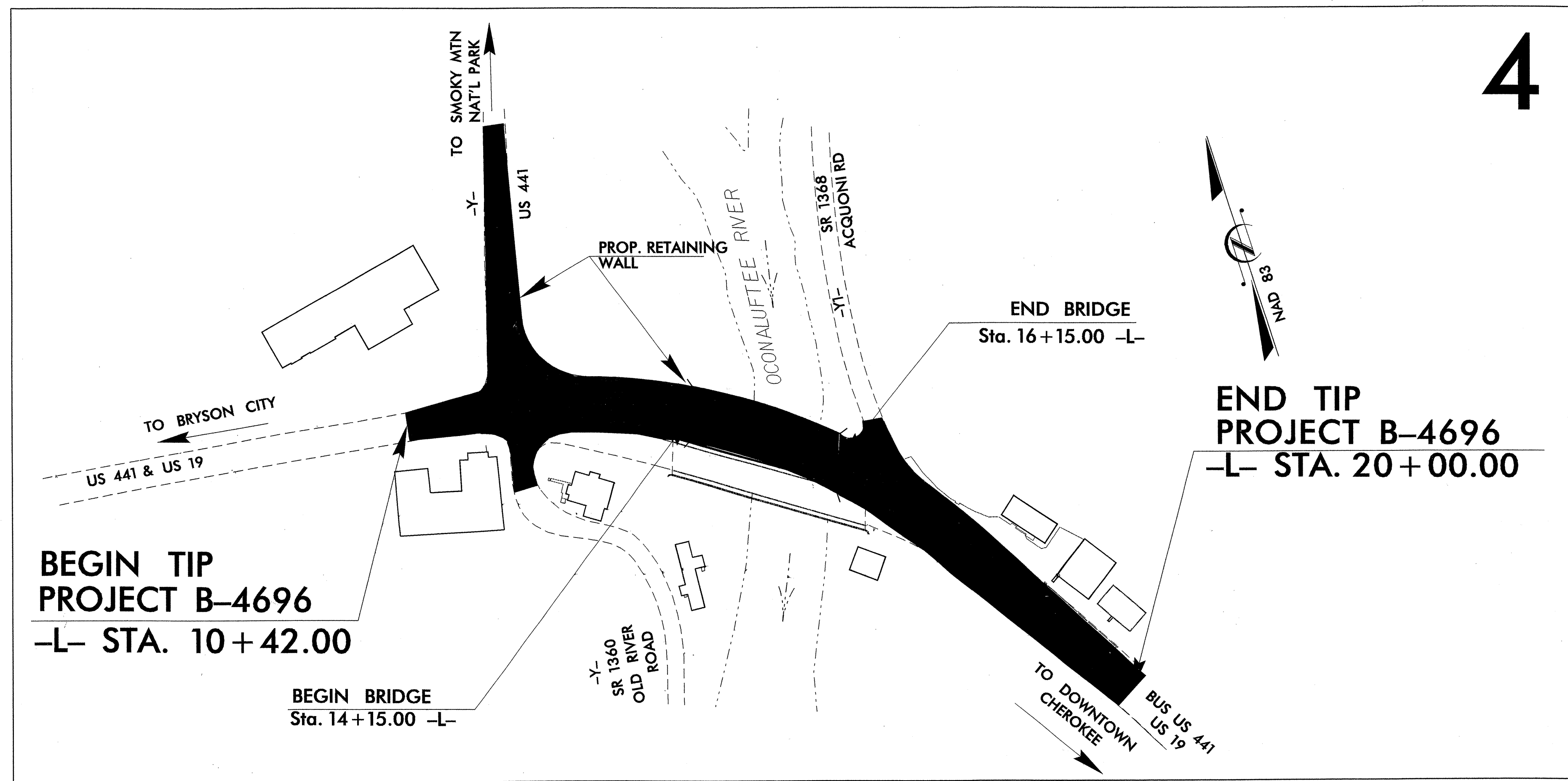
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SWAIN COUNTY

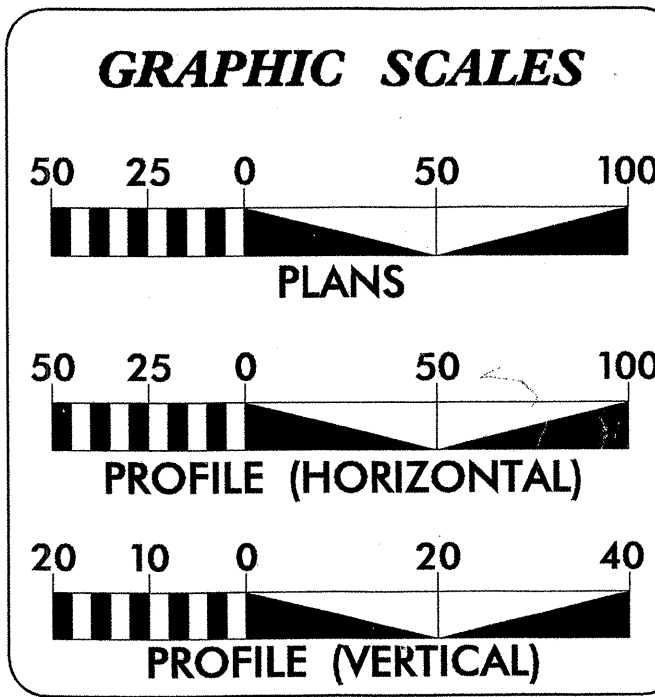
LOCATION: BRIDGE #24 ON US 19 OVER THE OCONALUFTEE RIVER IN CHEROKEE

TYPE OF WORK: GRADING, PAVING, DRAINAGE, STRUCTURE, RETAINING WALL, CURB AND GUTTER, SIDEWALK, LIGHTING AND SIGNAL UPGRADES

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-4696	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
33840.1.1	STP-19(11)	PE	
33840.2.2	STP-19(11)	RW & UTIL.	
33840.3.2	BRSTP-19(17)	CONSTRUCTION	



APPROVED FOR CONSTRUCTION	
CHEROKEE DEPARTMENT OF TRANSPORTATION APPROVED: <i>[Signature]</i> 6/25/07 <small>TRIBAL ROADS ENGINEER DATE</small>	EASTERN BAND OF CHEROKEE INDIANS APPROVED: <i>[Signature]</i> 6/25/07 <small>CHAIRPERSON, TRIBAL ROADS COMMISSION DATE</small>



DESIGN DATA

ADT 2004 =	18,280 vpd
ADT 2025 =	33,800 vpd
DHV =	25 %
D =	65 %
T =	10 % *
V =	20 MPH
* TTST 2%	DUAL 8%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT B-4696	= 0.143 Mi.
LENGTH STRUCTURE TIP PROJECT B-4696	= 0.038 Mi.
TOTAL LENGTH TIP PROJECT B-4696	= 0.181 Mi.

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

2006 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	August 13, 2002
LETTING DATE:	January 15, 2008
	JAMES SPEER, PE PROJECT ENGINEER
	JOHN C. LANSFORD, PE PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER
[Signature] 7/11/06
 SEAL 15435
 SIGNATURE: *[Signature]* 7/11/06 P.E.

NORTH CAROLINA ROADWAY DESIGN ENGINEER
 SEAL 15435
 SIGNATURE: *[Signature]* 7/11/06 P.E.

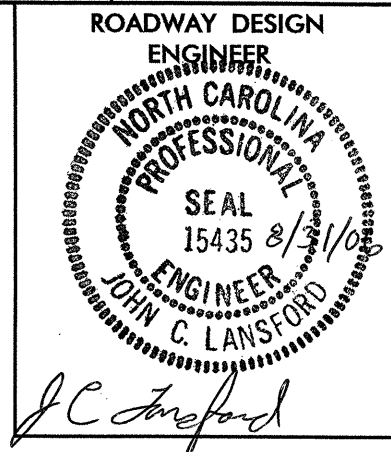
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

[Signature]
STATE DESIGN ENGINEER P.E.

BUREAU OF INDIAN AFFAIRS

APPROVED: <i>[Signature]</i> 7/25/07	DATE
APPROVED: <i>[Signature]</i> 7/25/07	DATE

ACTING REGIONAL DIRECTOR



SHEET NUMBER	SHEET	#REF: #REF:	#REF: #REF:
1	TITLE SHEET		
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS	GENERAL NOTES: 2006 SPECIFICATIONS EFFECTIVE: 07-18-06 REVISED:	2006 ROADWAY STANDARD DRAWINGS EFF. 07-18-06
1-B	CONVENTIONAL SYMBOLS	GRADING AND SURFACING OR RESURFACING AND WIDENING: 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.	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:
2	PAVEMENT SCHEDULE, TYPICAL SECTION, DETAIL OF WEDGING FOR RESURFACING, AND DETAIL OF PREFORMED SCOUR HOLE		STD. NO. TITLE
2-A THRU 2-C	TYPICAL SECTIONS	CLEARING: CLEARING ON THIS PROJECT SHALL BE PERFORMED TO THE LIMITS ESTABLISHED BY METHOD II.	200.02 Method of Clearing - Method II 225.02 Guide for Grading Subgrade - Secondary and Local 225.04 Method of Obtaining Super-elevation - Two Lane Pavement
2-D	INTERSECTION DETAIL	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.	300.01 Method of Pipe Installation - Method 'A' Reinforced Bridge Approach Fills 422.10 Reinforced Bridge Approach Fills
2-E	CONCRETE SIDEWALK DETAIL	SHOULDER CONSTRUCTION: ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.	560.01 Method of Shoulder Construction - High Side of Super-elevated Curve - Method I 654.01 Pavement Repairs
2-F	DETAIL TO CONVERT EXISTING DROP INLET OR CATCH BASIN TO JUNCTION BOX (MANHOLE OPTIONAL)	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.	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 840.25 Anchorage for Frames - Brick or Concrete 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 840.51 Brick Manhole - 12" thru 36" Pipe 840.53 Precast Manhole with Masonry Base - 12" thru 42" Pipe 840.54 Manhole Frame and Cover 840.66 Drainage Structure Steps 840.71 Concrete and Brick Pipe Plug 846.01 Concrete Curb, Gutter and Curb & Gutter 848.02 Driveway Turnout 848.04 Street Turnout 866.03 Woven Wire Fence - with Steel Post
2-G	DETAIL OF TREATED WOOD WALKWAY	UNDERDRAINS: UNDERDRAINS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 815.03 AT LOCATIONS DIRECTED BY THE ENGINEER.	
2-H	DETAIL OF METAL DOUBLE GATE	DRIVEWAYS: DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.	
3 (2 sheets)	SUMMARY OF QUANTITIES	STREET TURNOUT: STREET RETURNS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. NO. 848.04 USING THE RADIUS NOTED ON PLANS.	
3-A THRU 3-B	LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER), SUMMARY OF EARTHWORK, AND SUMMARY OF ASPHALT PAVEMENT REMOVAL	TEMPORARY SHORING: SHORING REQUIRED FOR THE MAINTENANCE OF TRAFFIC WILL BE PAID FOR AS "EXTRA WORK" IN ACCORDANCE WITH SECTION 104-7.	
4	PLAN SHEET	SUBSURFACE PLANS: NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.	
5	PROFILE SHEET	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.	
TCP-1 THRU TCP-7	TRAFFIC CONTROL PLANS	UTILITIES: UTILITY OWNERS ON THIS PROJECT ARE DUKE POWER, VERIZON TELEPHONE, CHEROKEE CABLEVISION, and EASTERN BAND OF CHEROKEE INDIANS WATER AND SANITARY SEWER. ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS, EXCEPT AS SHOWN ON THE PLANS.	
PM-1 THRU PM-2	PAVEMENT MARKING PLANS	RIGHT-OF-WAY MARKERS: ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.	
EC-1 THRU EC-4	EROSION CONTROL PLANS	WHEELCHAIR RAMP: WHEELCHAIR RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. THE CONSTRUCTION OF ALL WHEELCHAIR RAMPS SHALL BE IN ACCORDANCE WITH DETAILS IN PLANS.	
SIGN-1 THRU SIGN-7	SIGNING PLANS		
SIG-1 THRU SIG-24	SIGNAL PLANS		
UC-1 THRU UC-7	UTILITIES CONSTRUCTION PLANS		
UO-1	UTILITIES BY OTHERS PLANS		
X	CROSS-SECTIONS SUMMARY SHEET		
X-1 THRU X-16	CROSS-SECTIONS		
S-1 THRU S-	STRUCTURE PLANS		

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STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

*S.U.E = SUBSURFACE UTILITY ENGINEER

CONVENTIONAL SYMBOLS

ROADS & RELATED ITEMS

Edge of Pavement	-----
Curb	-----
Prop. Slope Stakes Cut	----- C
Prop. Slope Stakes Fill	----- F
Prop. Woven Wire Fence	○-----○
Prop. Chain Link Fence	□-----□
Prop. Barbed Wire Fence	◇-----◇
Prop. Wheelchair Ramp	○-----○ (WCR)
Curb Cut for Prop. Wheelchair Ramp	○-----○ (WCC)
Exist. Guardrail	-----
Prop. Guardrail	-----
Equality Symbol	⊕
Pavement Removal	⊗

RIGHT OF WAY

Baseline Control Point	◆
Existing Right of Way Marker	△
Exist. Right of Way Line w/Marker	-----△
Prop. Right of Way Line with Proposed	-----▲
R/W Marker (Iron Pin & Cap)	▲
Prop. Right of Way Line with Proposed	-----▲
(Concrete or Granite) R/W Marker	▲
Exist. Control of Access Line	○-----○ (C/A)
Prop. Control of Access Line	○-----○ (C/A)
Exist. Easement Line	-----E
Prop. Temp. Construction Easement Line	-----E
Prop. Temp. Drainage Easement Line	-----TDE
Prop. Perm. Drainage Easement Line	-----PDE

HYDROLOGY

Stream or Body of Water	-----
River Basin Buffer	-----RBB
Flow Arrow	----->
Disappearing Stream	-----
Spring	-----
Swamp Marsh	-----
Shoreline	-----
Falls, Rapids	-----
Prop Lateral, Tail, Head Ditches	-----

STRUCTURES

MAJOR	
Bridge, Tunnel, or Box Culvert	-----CONC
Bridge Wing Wall, Head Wall and End Wall	-----CONC WW

MINOR	
Head & End Wall	-----CONC HW
Pipe Culvert	-----
Footbridge	-----
Drainage Boxes	□-----CB
Paved Ditch Gutter	-----

UTILITIES

Exist. Pole	•
Exist. Power Pole	•
Prop. Power Pole	○
Exist. Telephone Pole	•
Prop. Telephone Pole	○
Exist. Joint Use Pole	•
Prop. Joint Use Pole	○
Telephone Pedestal	⊕
U/G Telephone Cable Hand Hold	⊕
Cable TV Pedestal	⊕
U/G TV Cable Hand Hold	⊕
U/G Power Cable Hand Hold	⊕
Hydrant	⊕
Satellite Dish	⊕
Exist. Water Valve	⊕
Sewer Clean Out	⊕
Power Manhole	⊕
Telephone Booth	⊕
Cellular Telephone Tower	⊕
Water Manhole	⊕
Light Pole	⊕
H-Frame Pole	⊕
Power Line Tower	⊕
Pole with Base	⊕
Gas Valve	⊕
Gas Meter	⊕
Telephone Manhole	⊕
Power Transformer	⊕
Sanitary Sewer Manhole	⊕
Storm Sewer Manhole	⊕
Tank; Water, Gas, Oil	⊕
Water Tank With Legs	⊕
Traffic Signal Junction Box	⊕
Fiber Optic Splice Box	⊕
Television or Radio Tower	⊕
Utility Power Line Connects to Traffic Signal Lines Cut Into the Pavement	-----TS-----

Recorded Water Line	-----W-----
Designated Water Line (S.U.E.*)	-----W-----
Sanitary Sewer	-----SS-----
Recorded Sanitary Sewer Force Main	-----FSS-----
Designated Sanitary Sewer Force Main(S.U.E.*)	-----FSS-----
Recorded Gas Line	-----G-----
Designated Gas Line (S.U.E.*)	-----G-----
Storm Sewer	-----S-----
Recorded Power Line	-----P-----
Designated Power Line (S.U.E.*)	-----P-----
Recorded Telephone Cable	-----T-----
Designated Telephone Cable (S.U.E.*)	-----T-----
Recorded U/G Telephone Conduit	-----TC-----
Designated U/G Telephone Conduit (S.U.E.*)	-----TC-----
Unknown Utility (S.U.E.*)	-----?UTL-----
Recorded Television Cable	-----TV-----
Designated Television Cable (S.U.E.*)	-----TV-----
Recorded Fiber Optics Cable	-----FO-----
Designated Fiber Optics Cable (S.U.E.*)	-----FO-----
Exist. Water Meter	○
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to U/G Record	ATTUR
End of Information	E.O.I.

BOUNDARIES & PROPERTIES

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Property Line Symbol	⊕
Exist. Iron Pin	⊕
Property Corner	⊕
Property Monument	⊕
Property Number	⊕
Parcel Number	⊕
Fence Line	-----X-----
Existing Wetland Boundaries	-----WLB-----
High Quality Wetland Boundary	-----HQ WLB-----
Medium Quality Wetland Boundaries	-----MQ WLB-----
Low Quality Wetland Boundaries	-----LQ WLB-----
Proposed Wetland Boundaries	-----WLB-----
Existing Endangered Animal Boundaries	-----EAB-----
Existing Endangered Plant Boundaries	-----EPB-----

BUILDINGS & OTHER CULTURE

Buildings	-----
Foundations	-----
Area Outline	-----
Gate	-----
Gas Pump Vent or U/G Tank Cap	-----
Church	-----
School	-----
Park	-----
Cemetery	-----
Dam	-----
Sign	-----
Well	-----
Small Mine	-----
Swimming Pool	-----

TOPOGRAPHY

Loose Surface	-----
Hard Surface	-----
Change in Road Surface	-----
Curb	-----
Right of Way Symbol	R/W
Guard Post	○ GP
Paved Walk	-----
Bridge	-----
Box Culvert or Tunnel	-----
Ferry	-----
Culvert	-----
Footbridge	-----
Trail, Footpath	-----
Light House	-----

VEGETATION

Single Tree	-----
Single Shrub	-----
Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

RAILROADS

Standard Gauge	-----
RR Signal Milepost	-----
Switch	-----

5/28/99

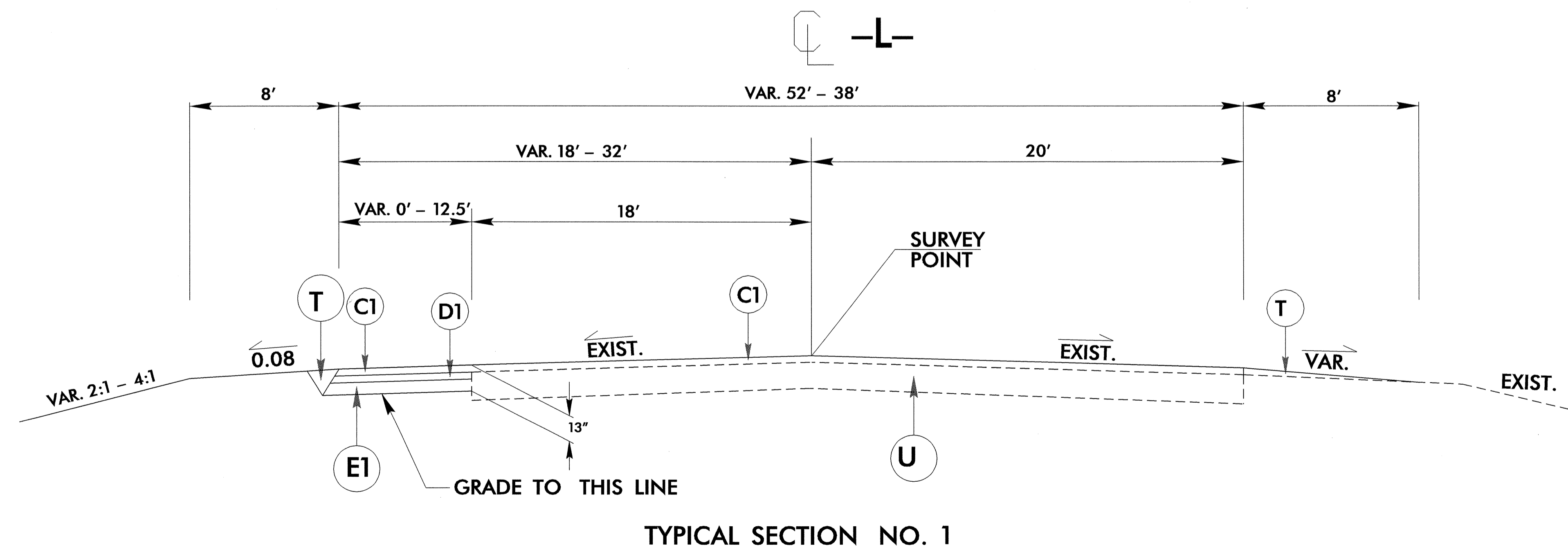
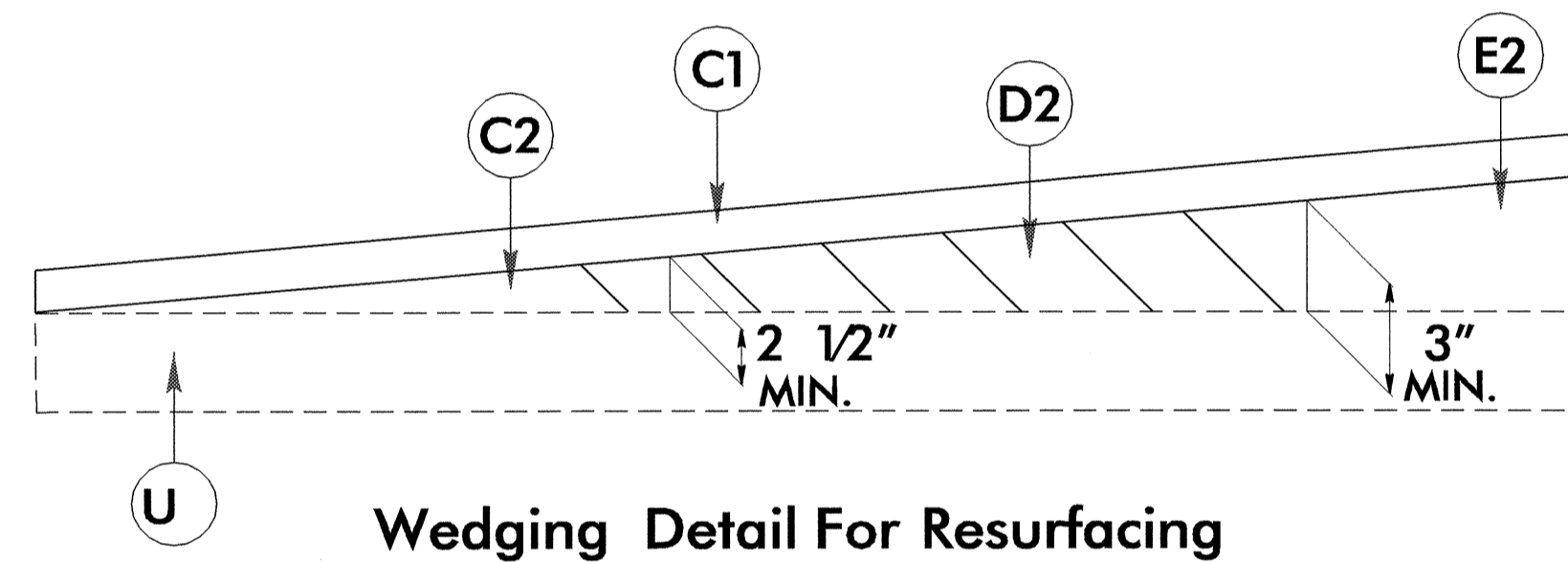
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JDGraham rd-07oce34

revised 02/02/00

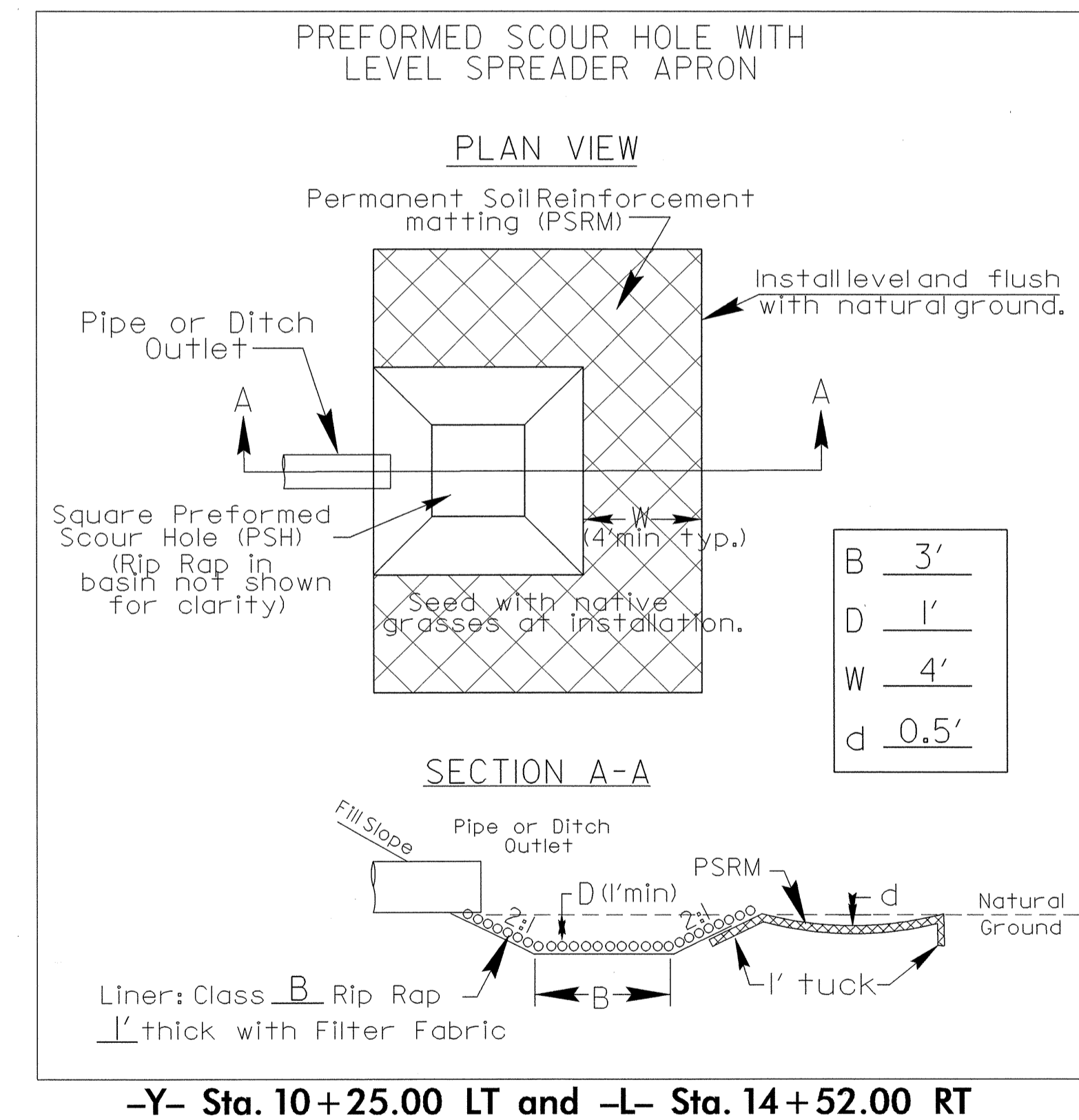
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.	(R)	PROP. 2'-6" CONC. CURB AND GUTTER.
(C2)	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD., PER 1.0" DEPTH, TO BE PLACED IN LAYERS NOT TO EXCEED 2" DEPTH.	(S1)	6' STAMPED SIDEWALK
(D1)	PROP. APPROX. 4.0" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.	(S2)	PROP. RETAINING WALL.
(D2)	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD., PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 2 1/2" OR GREATER THAN 4.0" IN DEPTH.	(T)	EARTH MATERIAL.
(E1)	PROP. APPROX. 6.0" ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD. IN EACH OF TWO LAYERS	(U)	EXISTING PAVEMENT.
(E2)	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD., PER 1" DEPTH, TO BE PLACED IN LAYERS NOT LESS THAN 3.0"	(W)	WEDGING (SEE DETAIL).

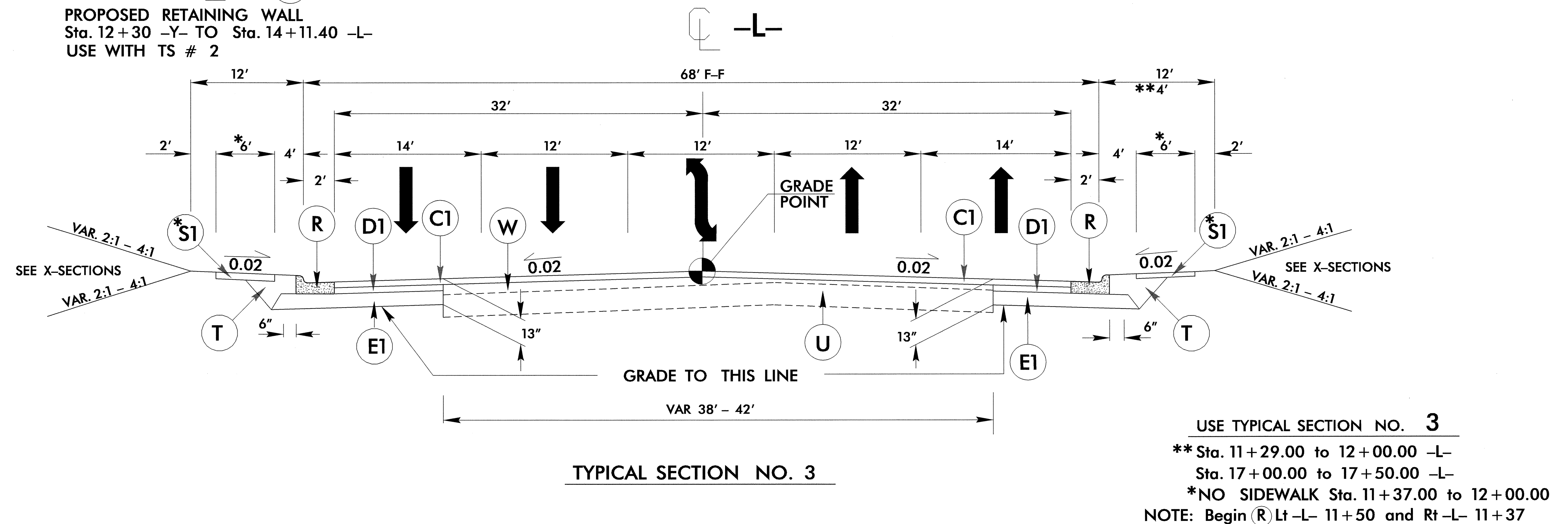
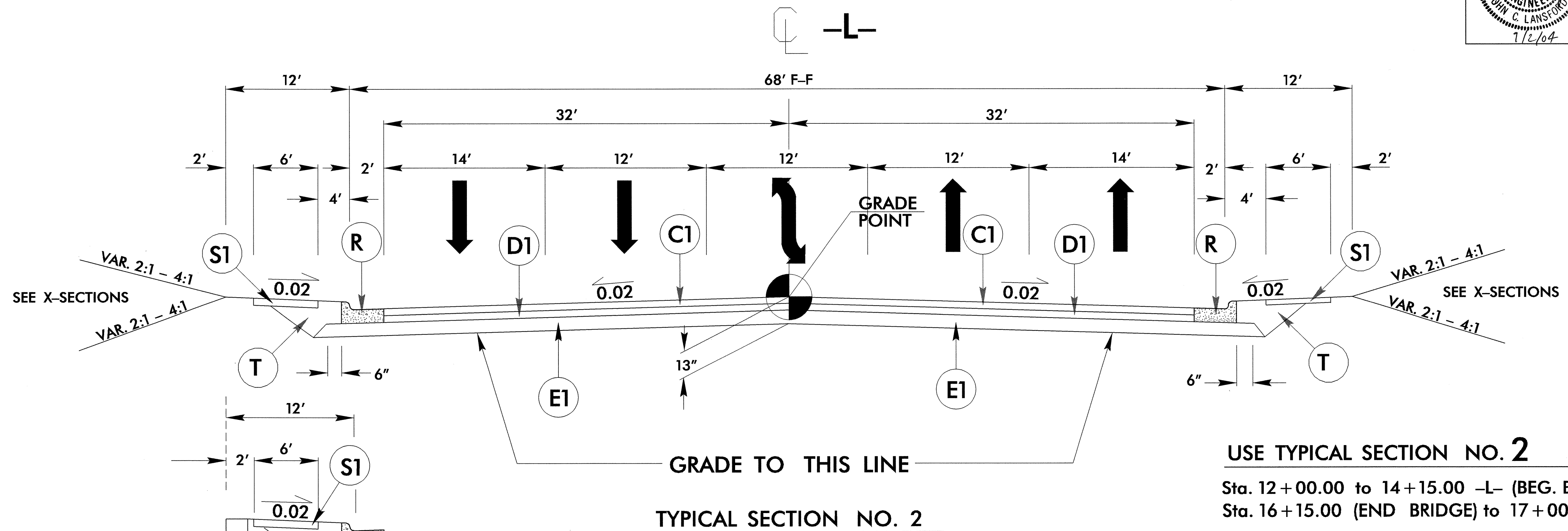
NOTE: ALL SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



PROJECT REFERENCE NO. B-4696	SHEET NO. 2
ROADWAY DESIGN ENGINEER 	PAVEMENT DESIGN ENGINEER



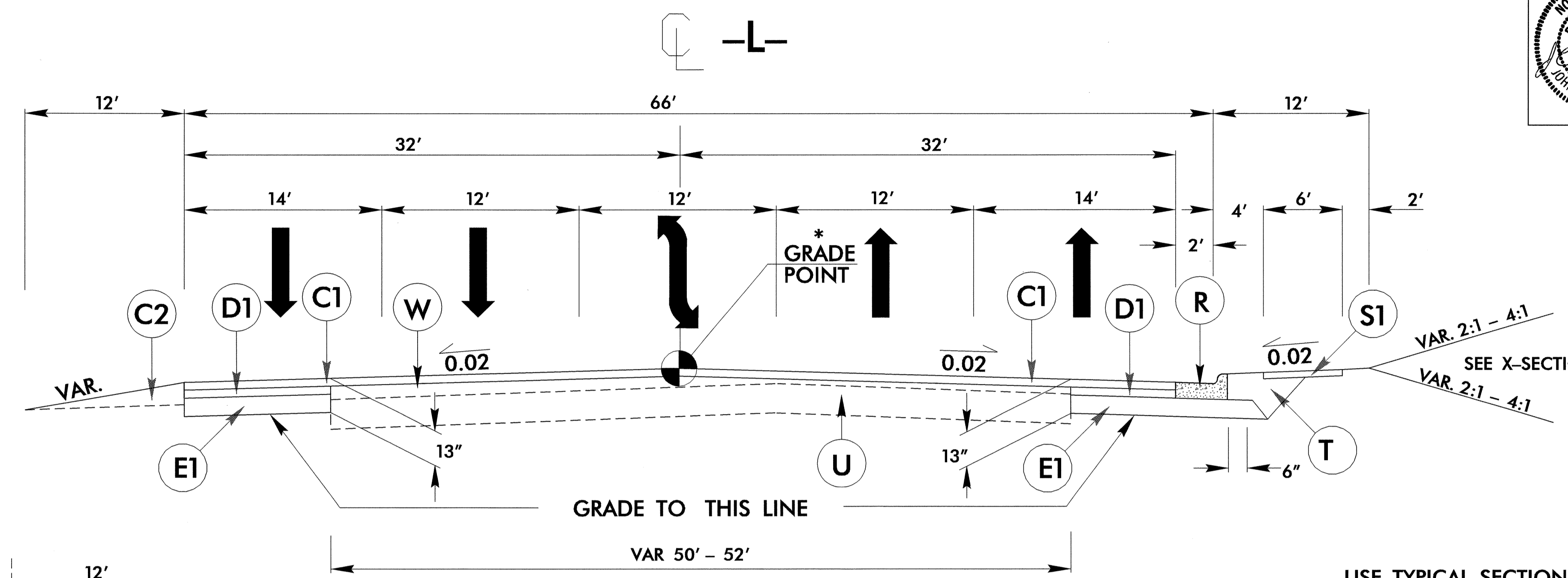
(C1)	3.0" TYPE S9.5C
(C2)	VARIABLE DEPTH S9.5C
(D1)	4.0" TYPE I19.0C
(D2)	VARIABLE DEPTH I19.0C
(E1)	6.0" TYPE B25.0C
(E2)	VARIABLE DEPTH B25.0C
(R)	2'-6" CONC. CURB AND GUTTER
(S1)	6' CONC. STAMPED SIDEWALK
(S2)	PROP. RETAINING WALL
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(W)	WEDGING (SEE DETAIL)



10/26/98

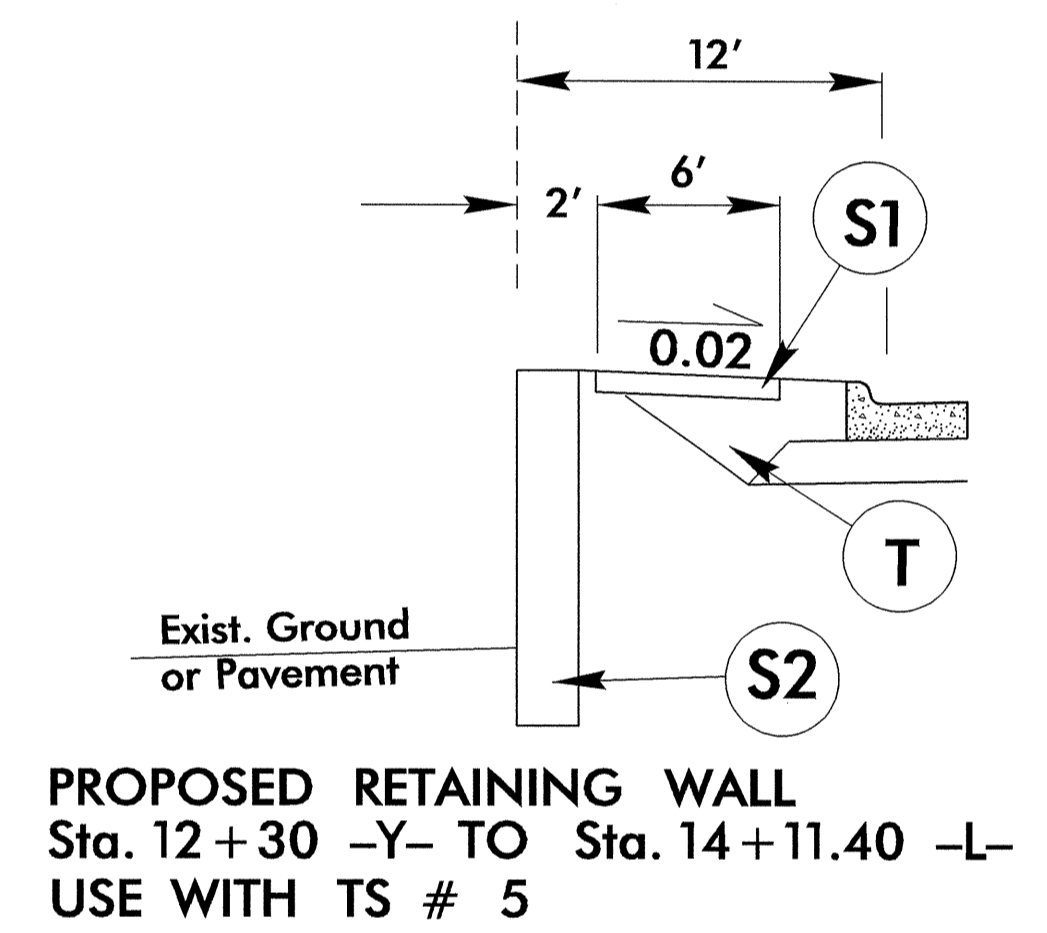
PROJECT REFERENCE NO. B-4696	SHEET NO. 2-B
ROADWAY DESIGN ENGINEER JOHN C. LANSFORD 9/2/04	PAVEMENT DESIGN ENGINEER 9/12/06

(C1)	3.0" TYPE S9.5C
(C2)	VARIABLE DEPTH S9.5C
(D1)	4.0" TYPE I19.0C
(D2)	VARIABLE DEPTH I19.0C
(E1)	6.0" TYPE B25.0C
(E2)	VARIABLE DEPTH B25.0C
(R)	2'-6" CONC. CURB AND GUTTER
(S1)	6' CONC. STAMPED SIDEWALK
(S2)	PROP. RETAINING WALL
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(W)	WEDGING (SEE DETAIL)

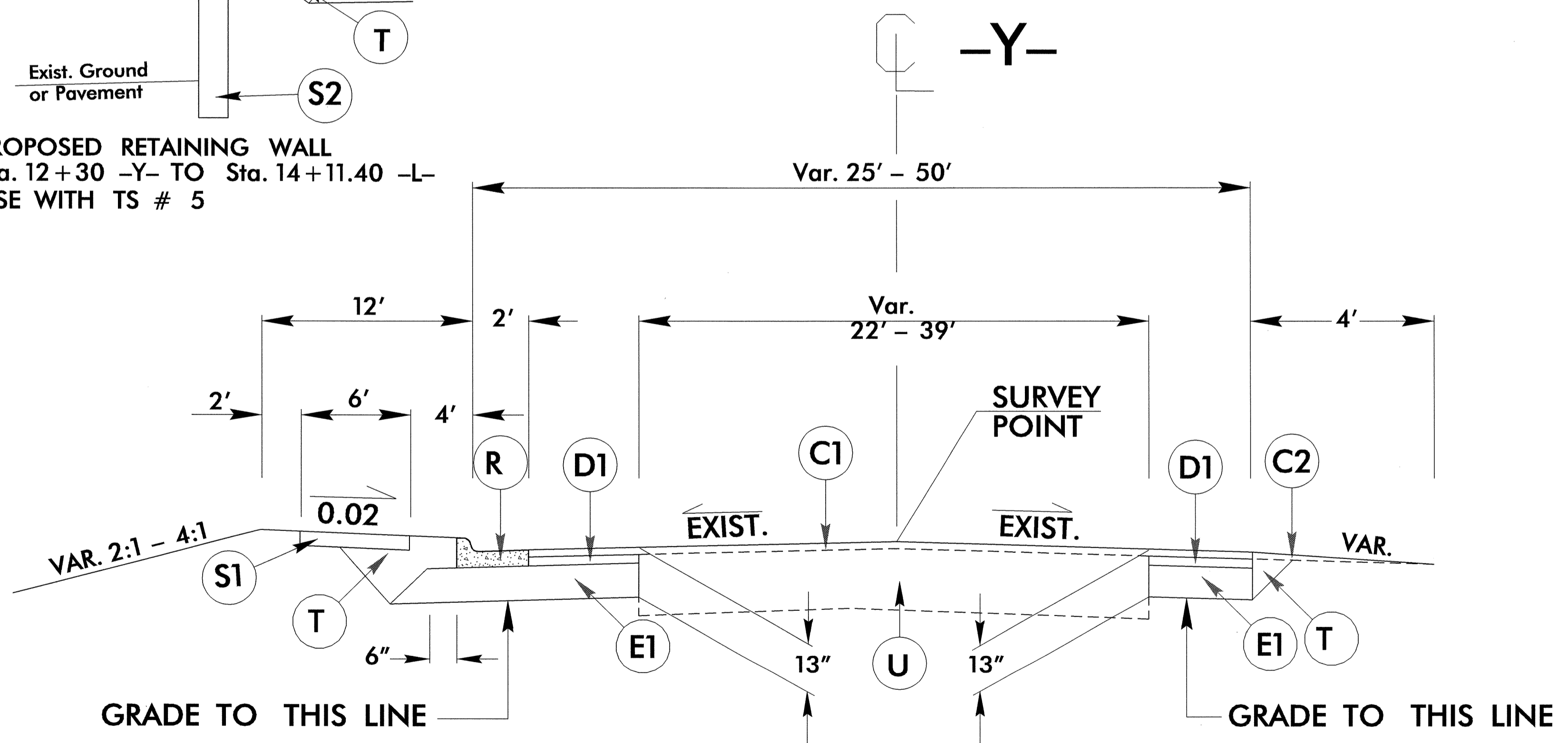


TYPICAL SECTION NO. 4

USE TYPICAL SECTION NO. 4
 Sta. 17+50.00 to 20+00.00 -L-
 *NO GRADE POINT FROM
 Sta. 18+00.00 to 20+00.00



PROPOSED RETAINING WALL
 Sta. 12+30 -Y- TO Sta. 14+11.40 -L-
 USE WITH TS # 5



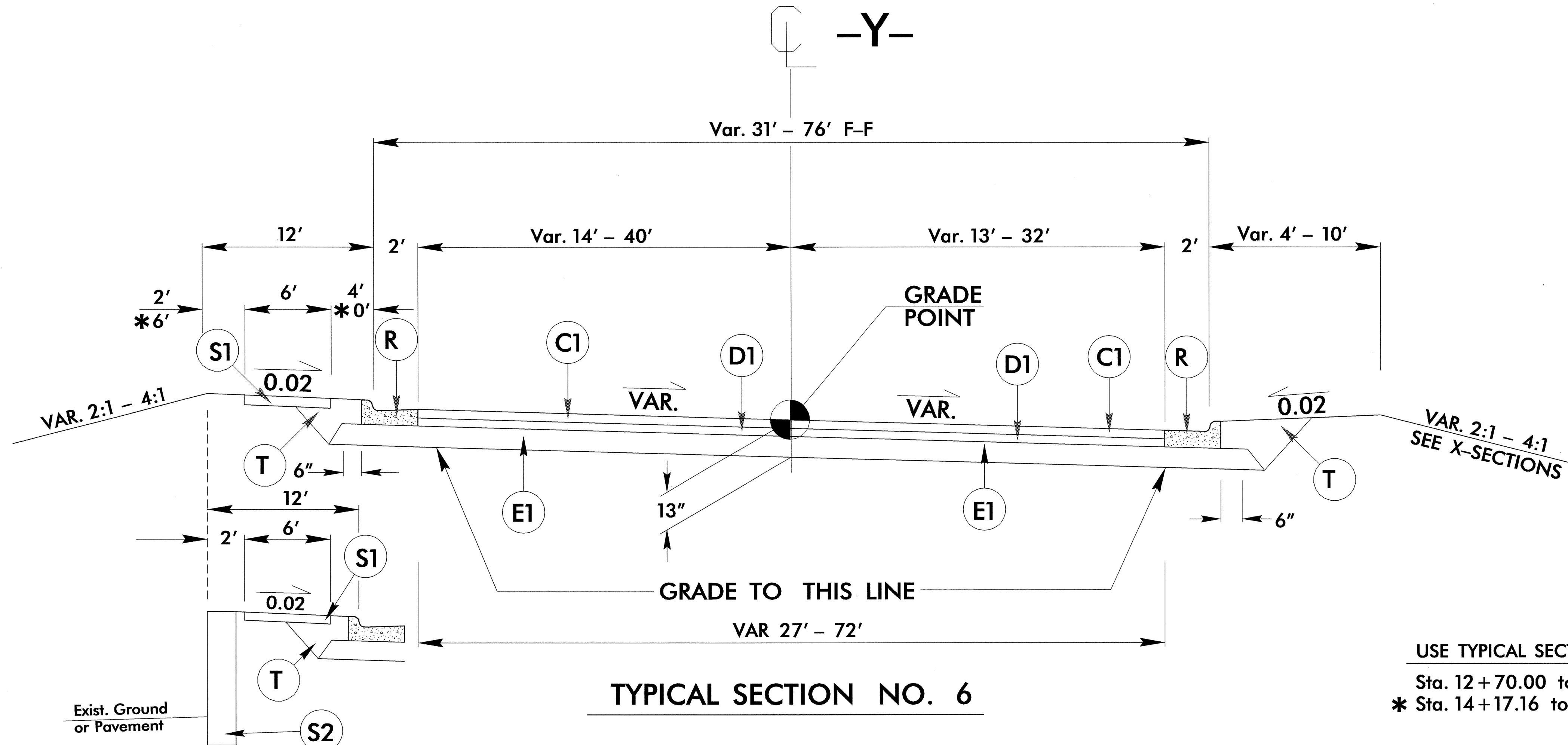
TYPICAL SECTION NO. 5

USE TYPICAL SECTION NO. 5
 Sta. 10+00.00 to 12+70.00 -Y-

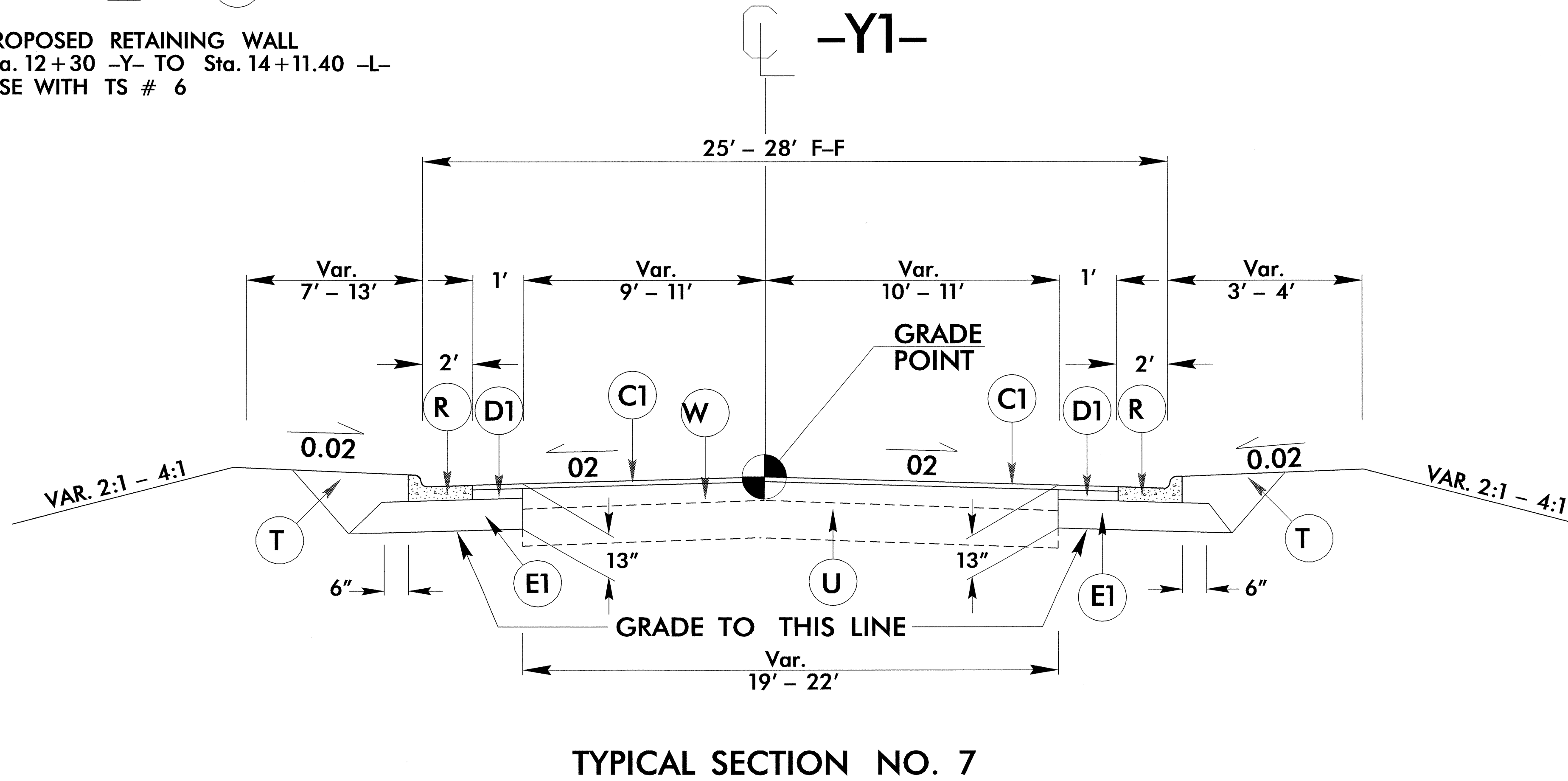
NOTE: SEE TYPICAL SECTION NO. 6 AND
 PLAN SHEET FOR S2 LOCATION.

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 lawhipple

(C1)	3.0" TYPE S9.5C
(C2)	VARIABLE DEPTH S9.5C
(D1)	4.0" TYPE I19.0C
(D2)	VARIABLE DEPTH I19.0C
(E1)	6.0" TYPE B25.0C
(E2)	VARIABLE DEPTH B25.0C
(R)	2'-6" CONC. CURB AND GUTTER
(S1)	6' CONC. STAMPED SIDEWALK
(S2)	PROP. RETAINING WALL
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(W)	WEDGING (SEE DETAIL)



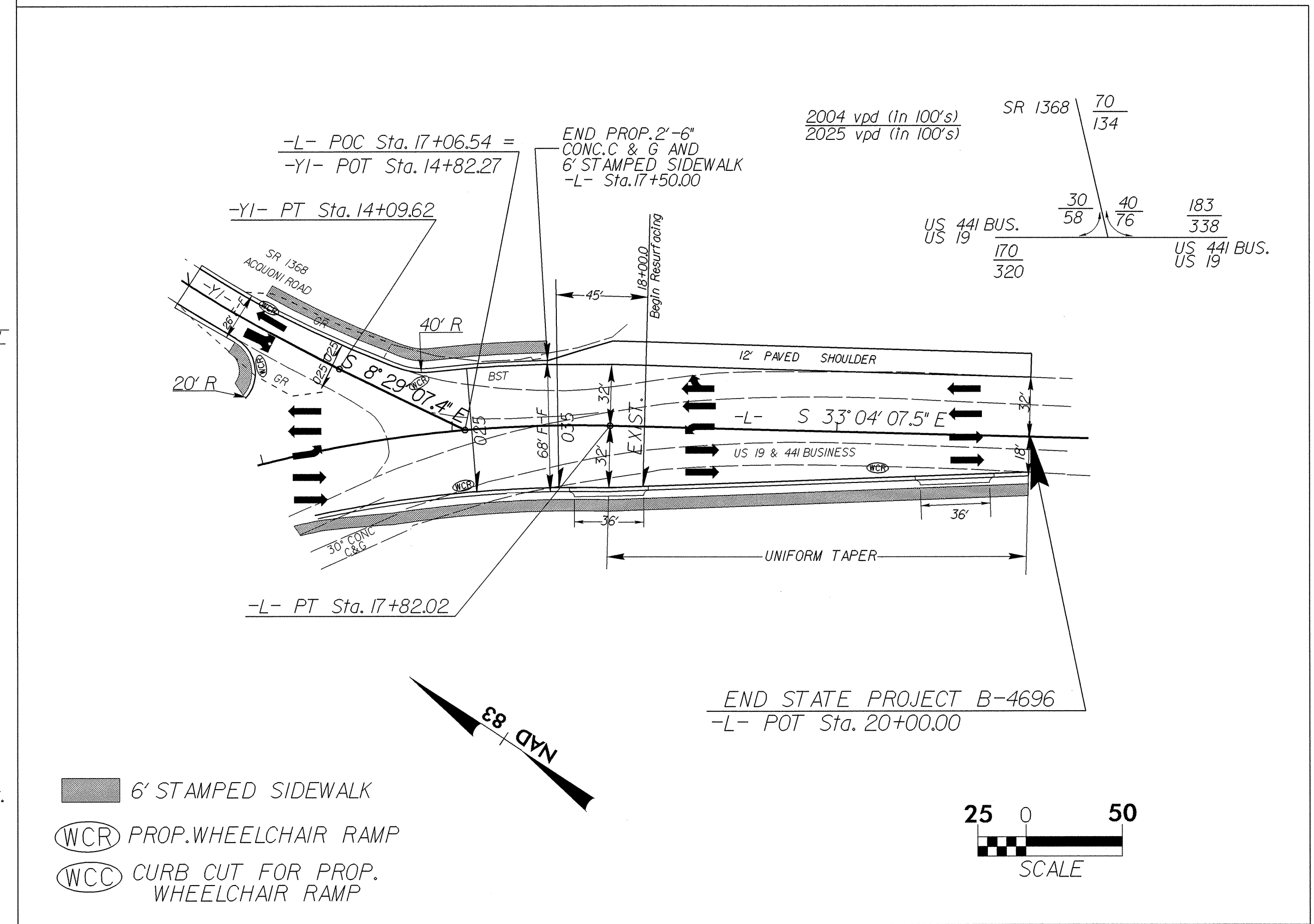
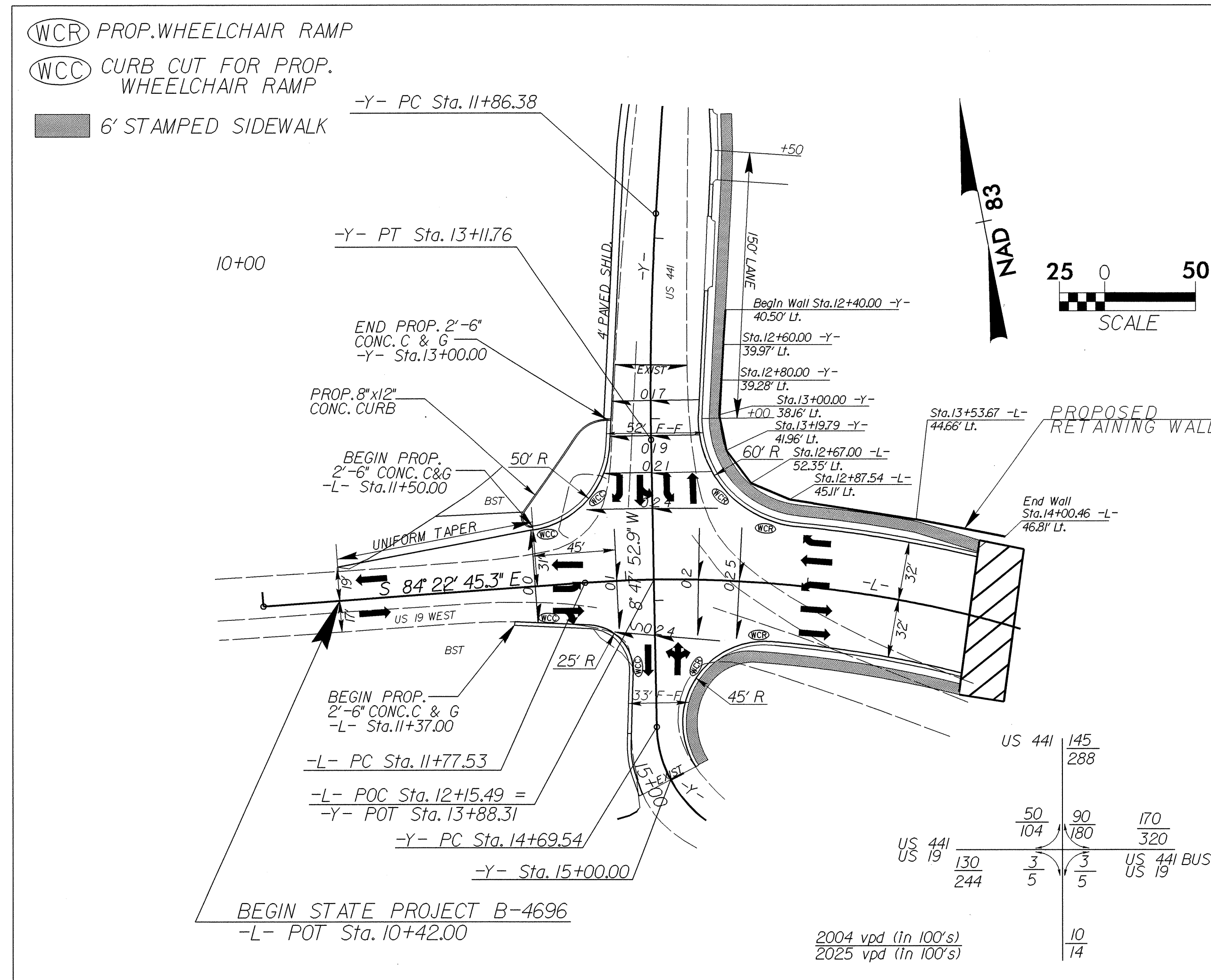
PROPOSED RETAINING WALL
Sta. 12+30 -Y- TO Sta. 14+11.40 -L-
USE WITH TS # 6



INTERSECTION DETAILS

PROJECT REFERENCE NO. B-4696	SHEET NO. 2-D
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

NOTE: SEE SHEET 4 FOR DESIGN



-L-	-Y-	-Y -
PI Sta 15+01.74	PI Sta 12+49.11	PI Sta 15+14.55
$\Delta = 51' 18" 37.7" (RT)$	$\Delta = 4' 47" 21.2" (LT)$	$\Delta = 69' 23' 50.5" (LT)$
D = 8' 29' 17.7"	D = 3' 49' 11.0"	D = 88' 08' 50.5"
L = 604.49'	L = 125.38'	L = 78.73'
T = 324.21'	T = 62.73'	T = 45.01'
R = 675.00'	R = 1,500.00'	R = 65.00'
SE = 0.025	SE = VAR. SEE PLANS	SE = VAR. SEE PLANS
RO = 112'		

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

1-02
 ENGLISH STANDARD DRAWING FOR
CONCRETE SIDEWALK

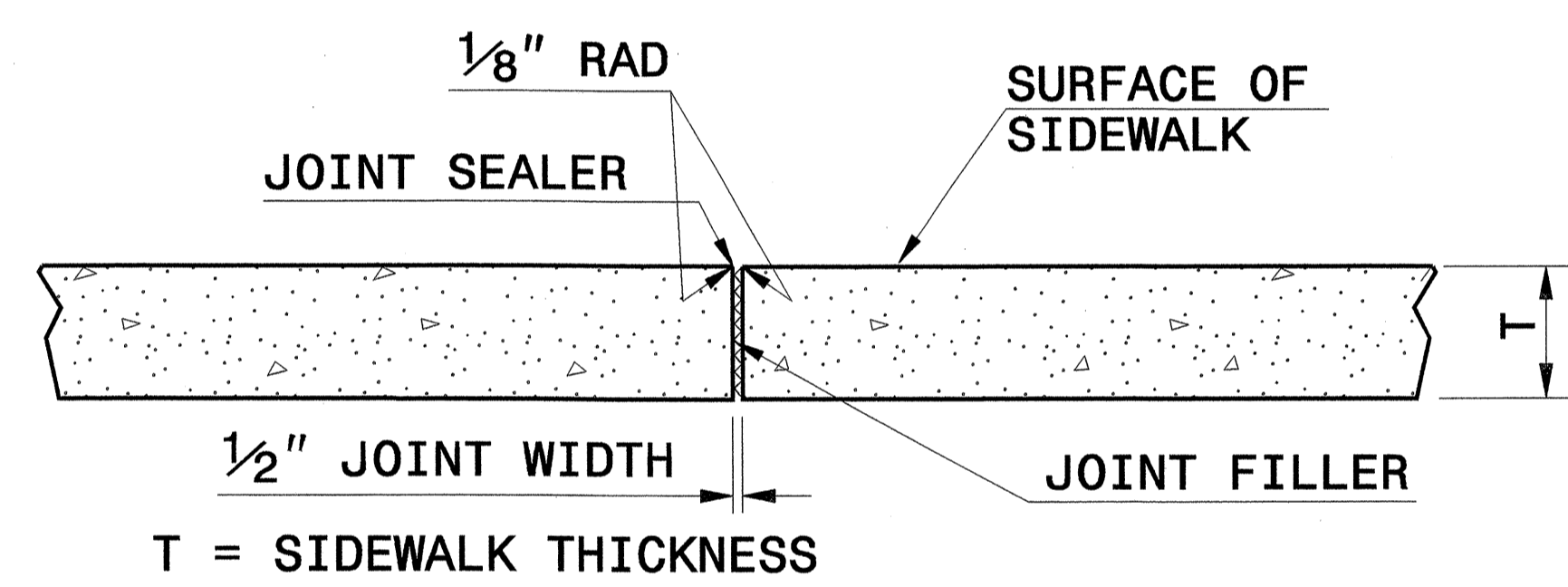
SHEET 1 OF 1
848D01

NOTES:

CONSTRUCT STANDARD SIDEWALK 6' WIDE AND 4" THICK UNLESS OTHERWISE DENOTED ON PLANS.

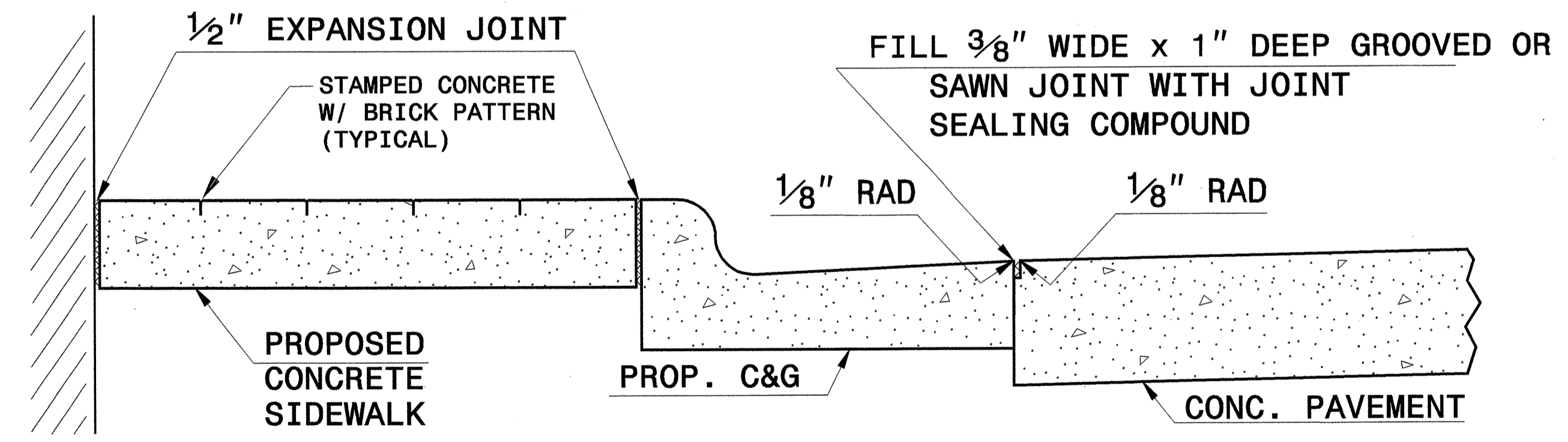
PLACE A GROOVE JOINT 1" DEEP WITH 1/8" RADIUS IN THE CONCRETE SIDEWALK AT 5' INTERVALS. ONE 1/2" EXPANSION JOINT WILL BE REQUIRED AT 50' INTERVALS. A 1/2" EXPANSION JOINT WILL BE REQUIRED WHERE THE SIDEWALK JOINS ANY RIGID STRUCTURE.

SEE DETAIL FOR WHEELCHAIR RAMP LOCATION REQUIREMENTS AND CONSTRUCTION GUIDELINES.

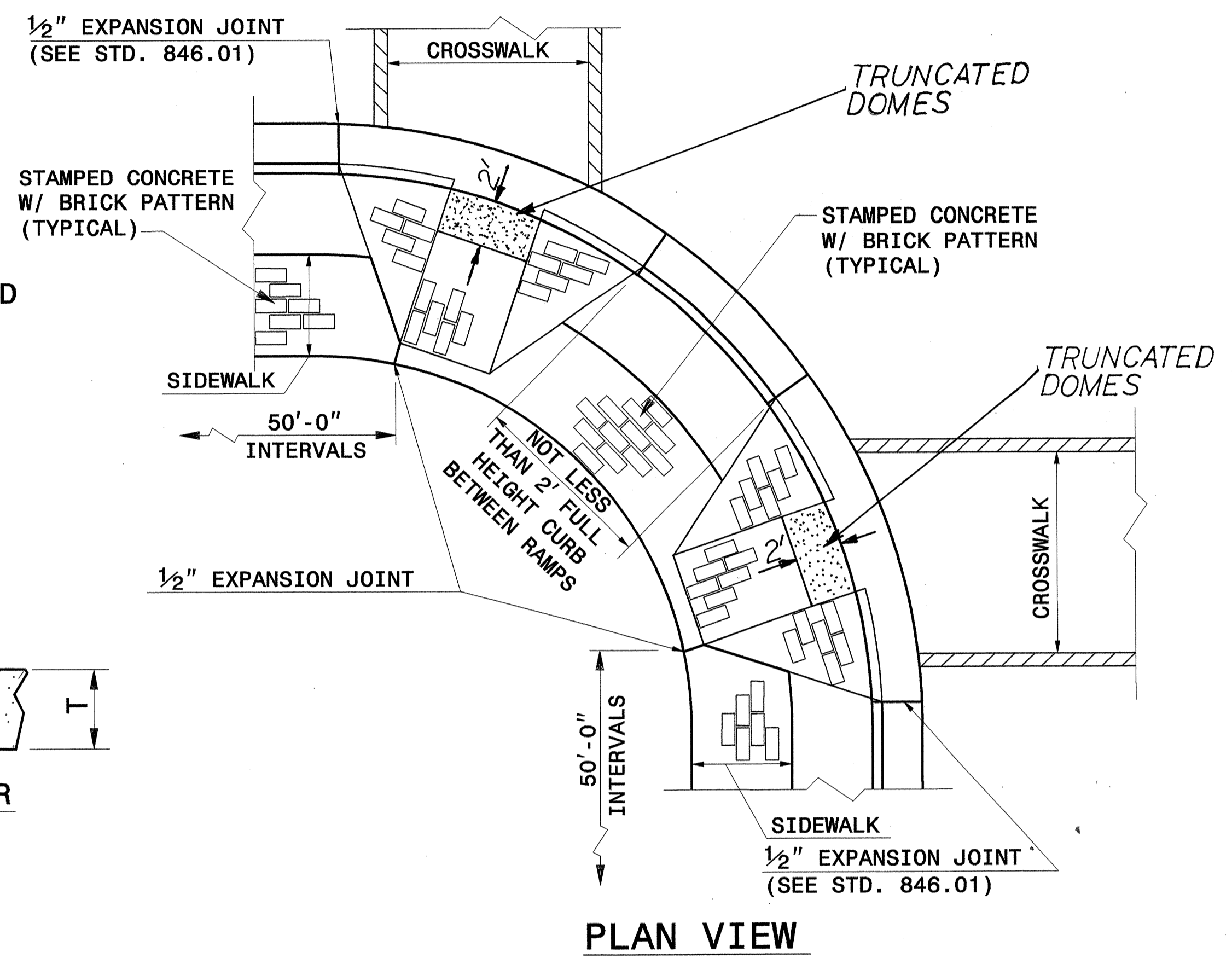


T = SIDEWALK THICKNESS

TRANSVERSE EXPANSION JOINT IN SIDEWALK



DETAILS SHOWING JOINTS IN CONCRETE SIDEWALK

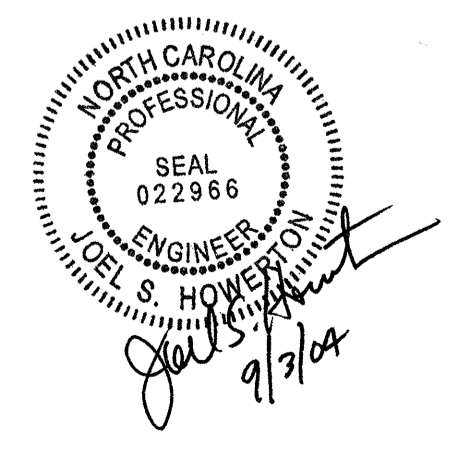


PLAN VIEW

1-02
 STATE OF NORTH CAROLINA
 DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR
CONCRETE SIDEWALK

SHEET 1 OF 1
848D01



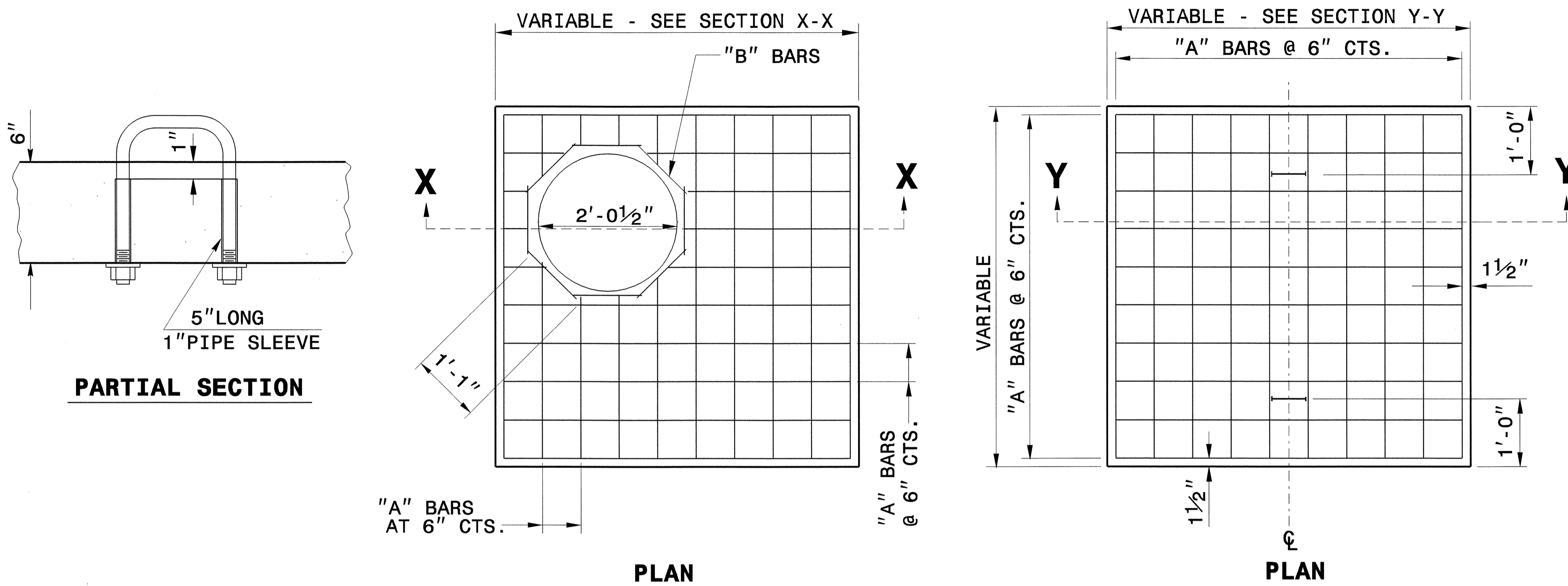
DESIGN SERVICES UNIT
STANDARDS AND SPECIAL DESIGN
 Office 919-250-4128 FAX 919-250-4119

CONCRETE SIDEWALK

ORIGINAL BY: rnbritt	DATE: 02-26-2003
MODIFIED BY: rnbritt	DATE: 12-03
CHECKED BY: [Signature]	DATE: 12-03
FILE SPEC.:	

03-DEC-2003 11:58
 M:\Special\848D01\english\b4696_rst_wall.dgn
 rnbritt

5/14/99



GENERAL NOTES:

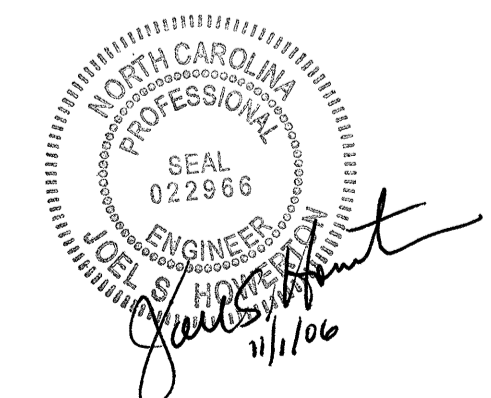
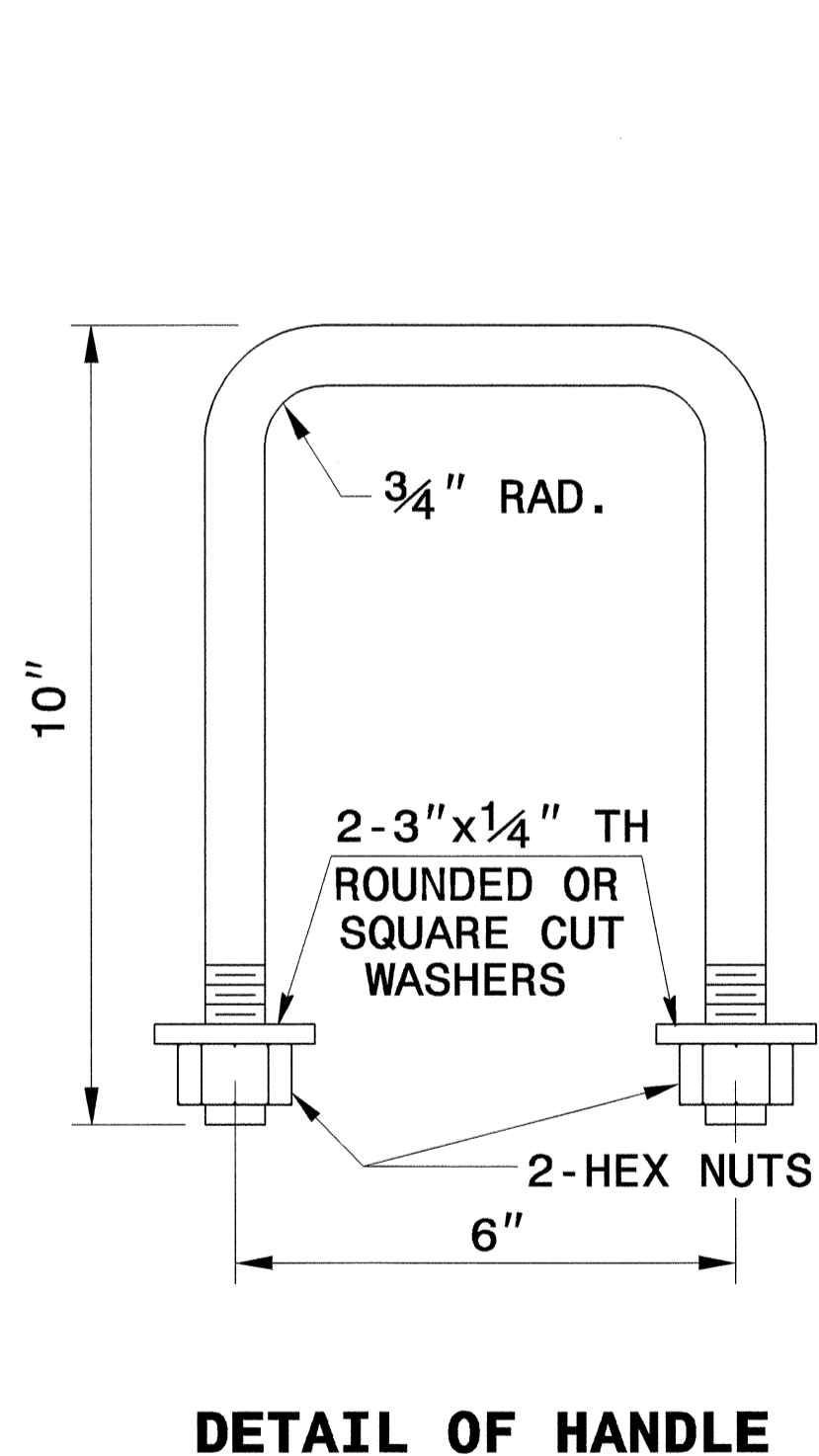
CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.

THE DIMENSIONS FOR THE EXISTING BOXES ARE APPROXIMATE AND MAY VARY SLIGHTLY.

DETAIL INTENDED FOR NON-TRAFFIC BEARING DRAINAGE STRUCTURES.

BILL OF MATERIALS				
REINFORCING STEEL				
CODE	SIZE	QTY.	LENGTH	REINF. STEEL LBS.
A	#4	20	4'-6"	60.12
B	#4	8	1'-1"	5.79
TOTAL				65.91 *
MASONRY				CU YDS
TOP SLAB CONCRETE CLASS "B"				.4326 *
BRICK MASONRY PER FT HT (MIN)				.4111

*** NOTE:**
QUANTITIES BASED ON 3'-6" X 3'-6" DRAINAGE STRUCTURE. ADJUST QUANTITIES FOR LARGER STRUCTURES AND MANHOLE CONSTRUCTION.

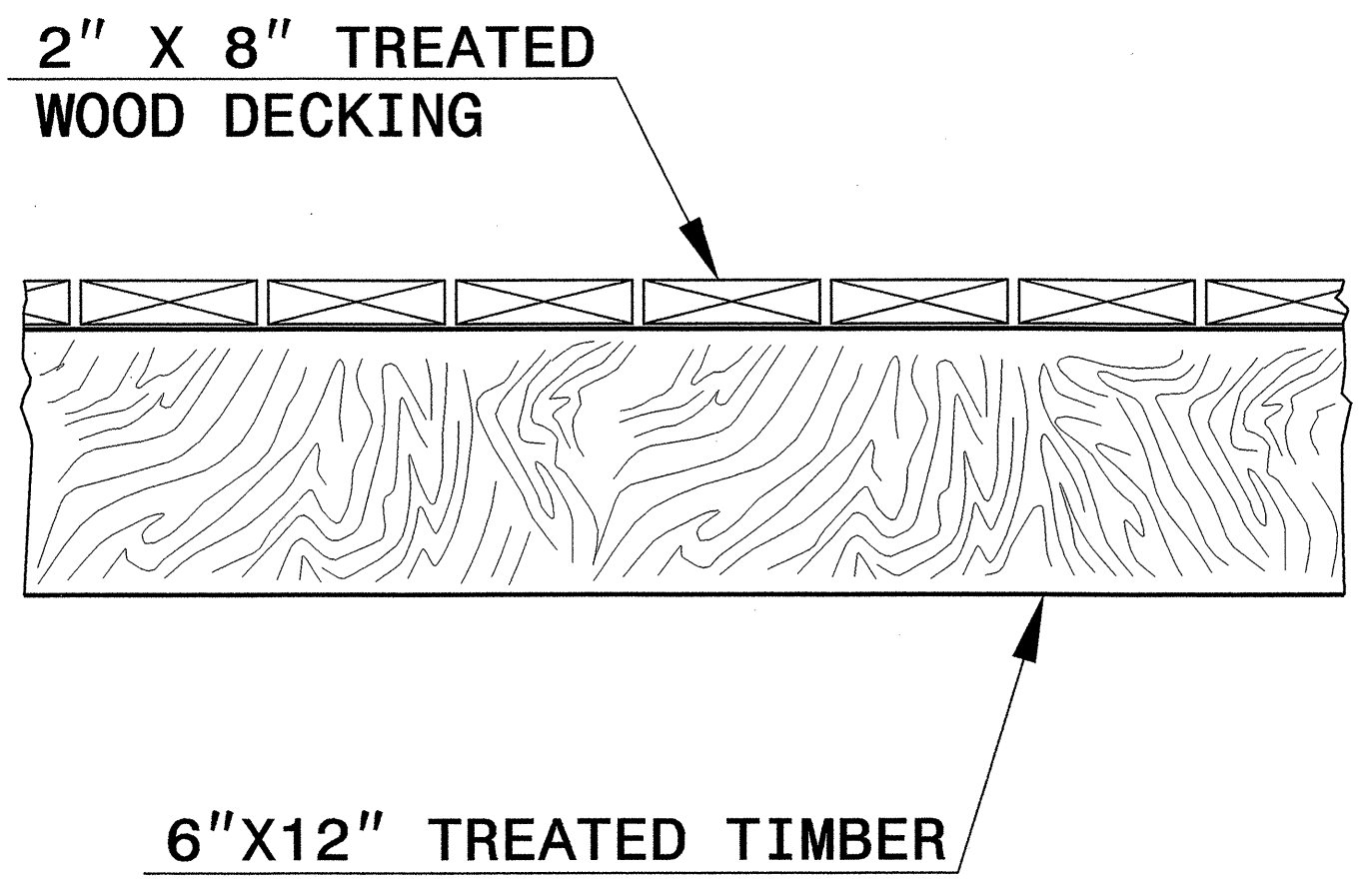


**PROJECT SERVICES UNIT
STANDARDS AND SPECIAL DESIGN**
Office 919-250-4128 FAX 919-250-4119

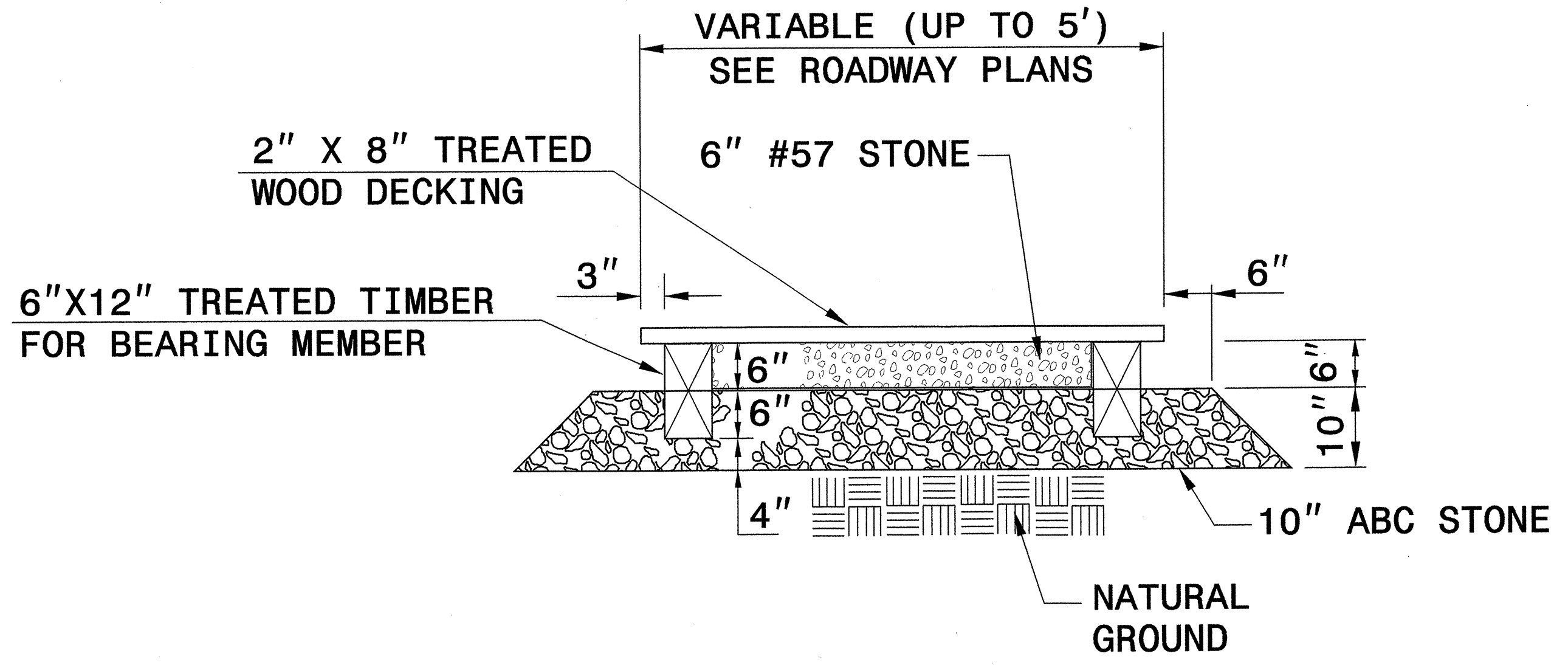
**DETAIL TO CONVERT EXISTING
DROP INLET OR CATCH BASIN
TO JUNCTION BOX
(MANHOLE OPTIONAL)**

ORIGINAL BY: mbritt DATE: 03/18/06
 MODIFIED BY: *[Signature]* DATE: 3/21/06
 CHECKED BY: *[Signature]* DATE: 3/21/06
 FILE SPEC.: g:\pails\mbritt/english\hydro\boxconversion

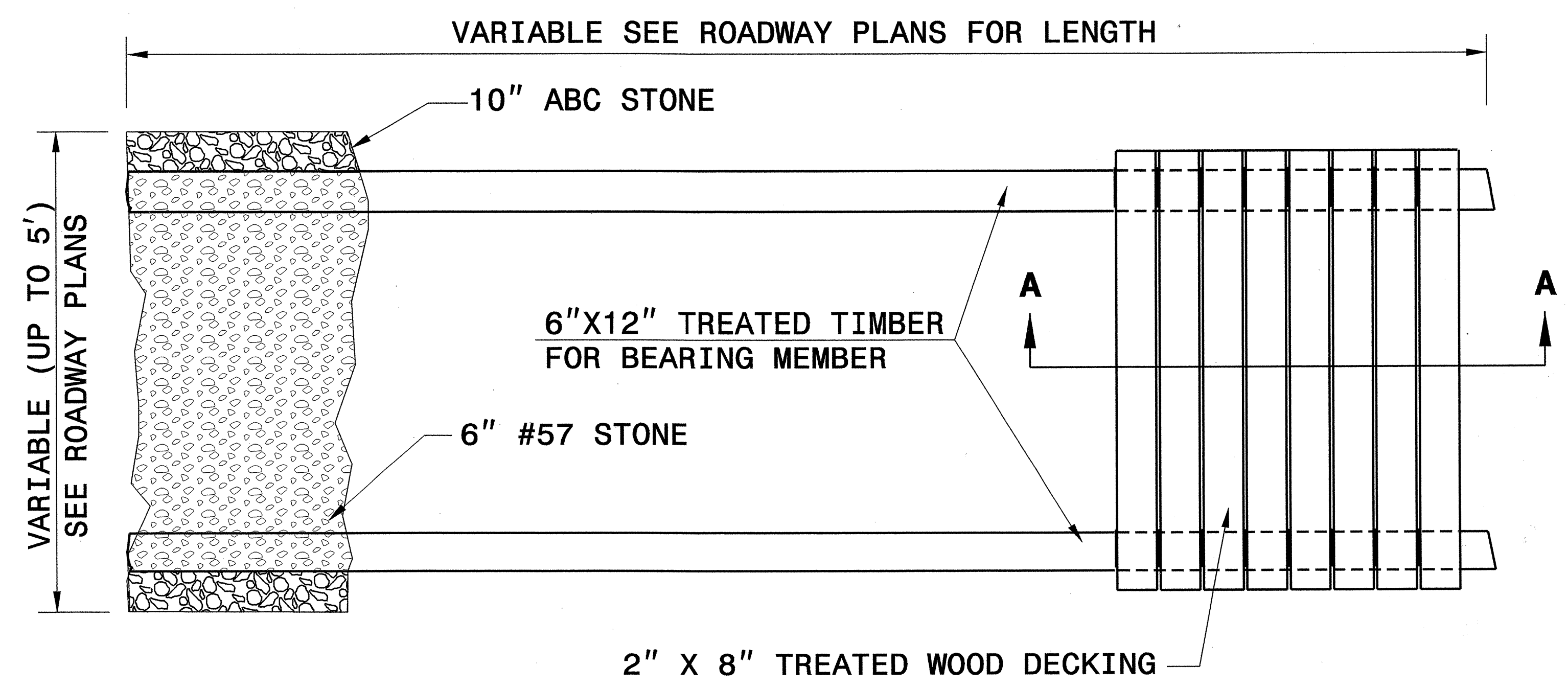
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 st:\contracts\95022966
 mbritt - 01 P022966.dgn
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SECTION A-A



CROSS-SECTION THRU TREATED WOOD WALKWAY



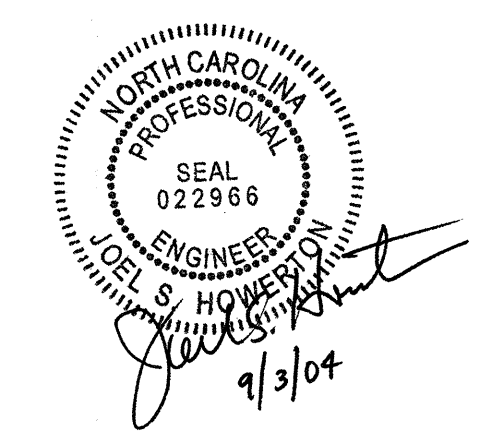
PLAN OF TREATED WOOD WALKWAY

NOTES:

- INSTALL TREATED WOOD DECKING ACCORDING TO MANUFACTURE
- ALL WORK SHALL BE AS DIRECTED BY THE ENGINEER
- SEE NCDOT STANDARD SPECIFICATIONS FOR THE FOLLOWING:
 - * ABC AND 57 STONE, SECTION 1005
 - * TREATED TIMBER, SECTION 1082.
 - * TIMBER STRUCTURE, SECTION 445

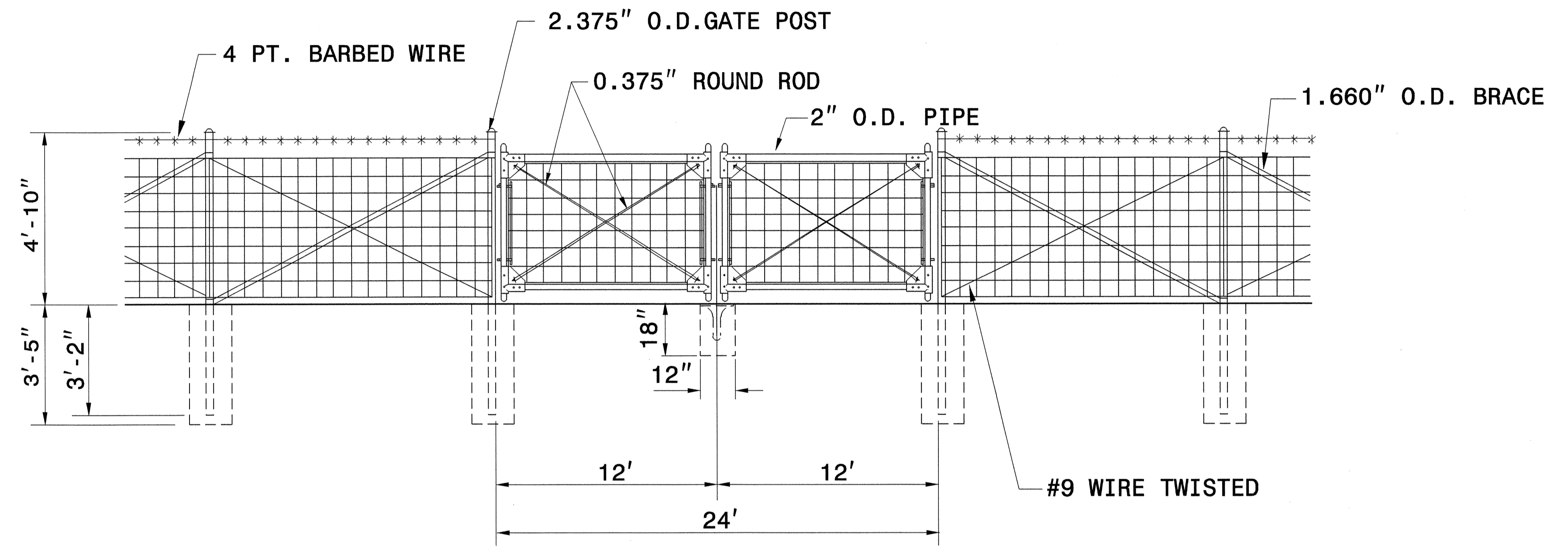
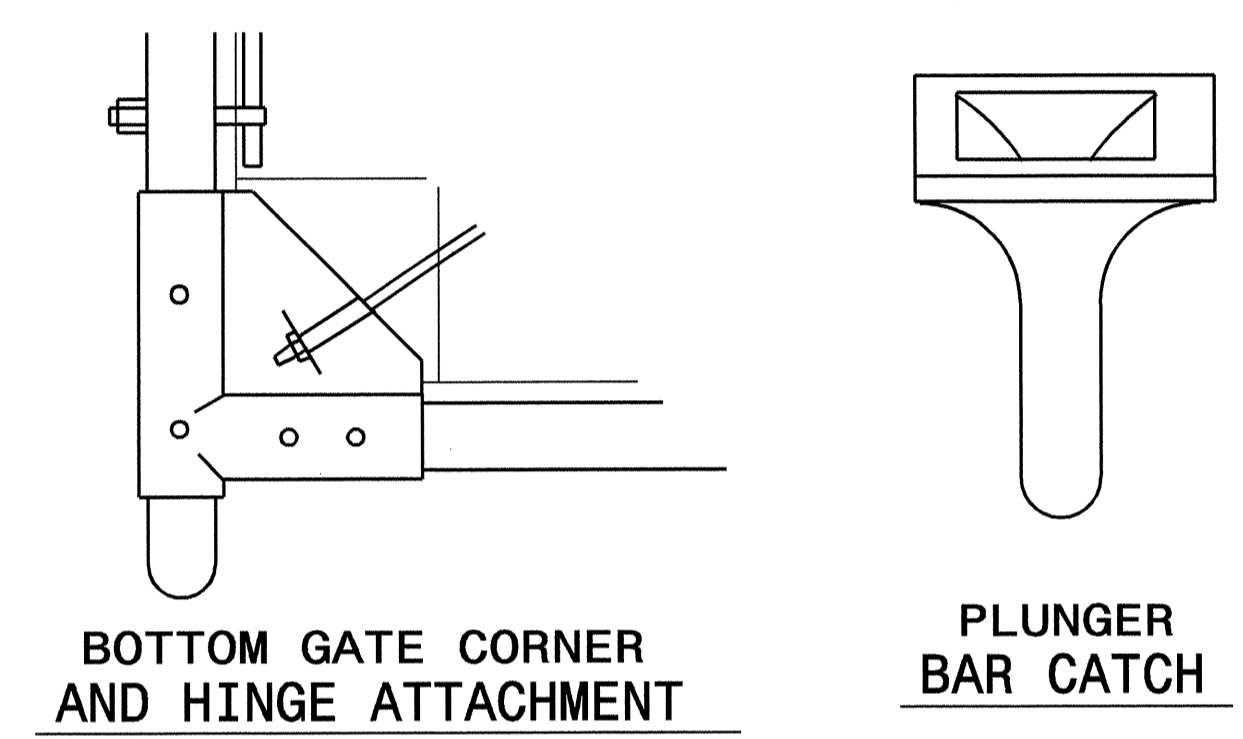
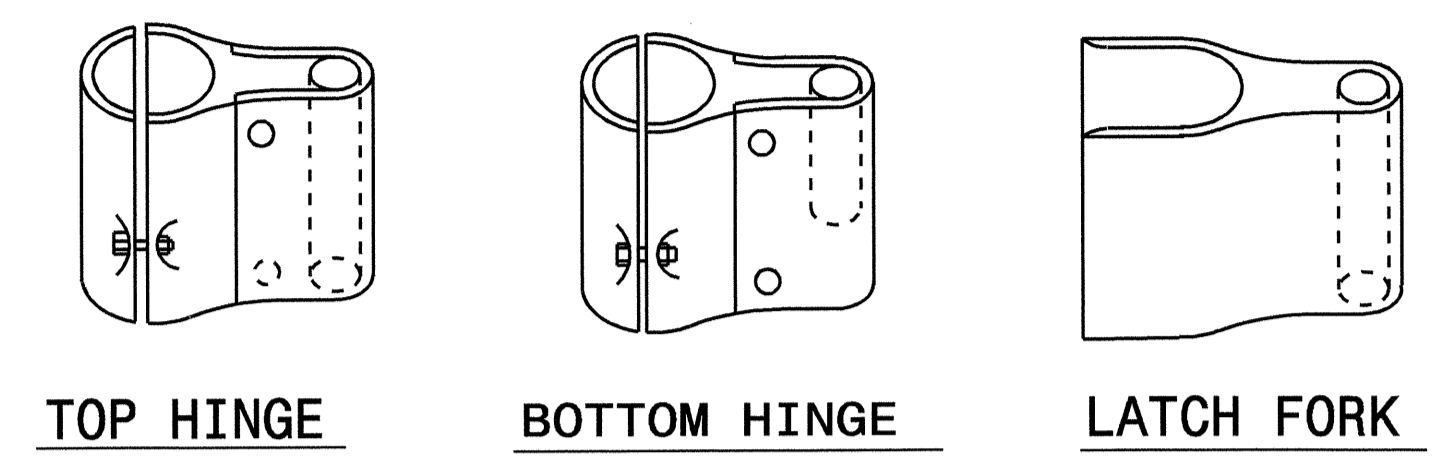
THIS DETAIL IS USED TO TIE THE EXISTING CONCRETE RAMP TO THE PROPOSED SIDEWALK;
LT. -Y- STA 14+80 ± (PARCEL 2)

PAY ITEM IS "WOODEN PEDESTRIAN RAMP" (LUMP SUM)



DESIGN SERVICES UNIT STANDARDS AND SPECIAL DESIGN	
Office 919-250-4128 FAX 919-250-4119	
DETAIL OF TREATED WOOD WALKWAY	
ORIGINAL BY: E. E. WARD	DATE: 12-14-01
MODIFIED BY: E. E. WARD	DATE: 12-03-03
CHECKED BY: <i>[Signature]</i>	DATE: 12-03
FILE SPEC: :	

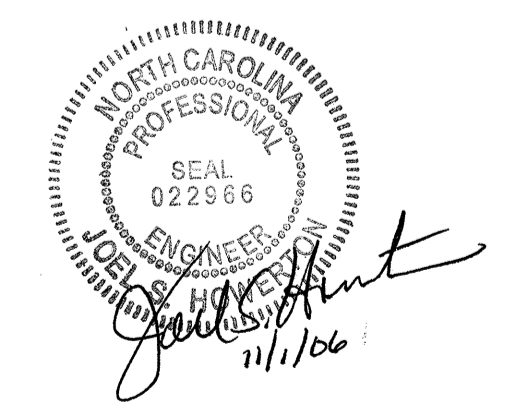
5/14/99
03-DEC-2003 11:56
C:\Users\ward\Documents\stand\sidewalk2.dgn
enclosed AT 05212260



GATE

USE LATCH DEVICE APPROVED BY THE ENGINEER. HINGE ASSEMBLY, AS DETAILED, IS SUGGESTED. SUBSTITUTION MAY BE MADE SUBJECT TO THE APPROVAL OF THE ENGINEER.

SEE STD. NO.866.03 FOR WOVEN WIRE FENCE INSTALLATION DETAILS



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

DETAIL OF
DOUBLE 12' WOVEN WIRE GATE

ORIGINAL BY: _____ DATE: _____
 MODIFIED BY: *rnbritt* DATE: 03-21-06
 CHECKED BY: *Jules Hunt* DATE: 3/24/06
 FILE SPEC.: *details/nbritt/english/bridge/b4696wovenwiregate.dgn*

22-MAR-2006 07:59
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 nbritt 11/1/06

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C200794

ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	4102000000-N	904	11	EA	SIGN ERECTION, TYPE E	5326200000-E	1510	1,340	LF	12" WATER LINE
0000400000-N	801	Lump Sum		CONSTRUCTION SURVEYING	4108000000-N	904	8	EA	SIGN ERECTION, TYPE F	5540000000-E	1515	1	EA	6" VALVE
0029000000-N	SP	Lump Sum		REINFORCED BRIDGE APPROACH FILL, STATION ***** (15+15.00)	4141000000-N	907	1	EA	DISPOSAL OF SUPPORT, WOOD	5546000000-E	1515	1	EA	8" VALVE
0036000000-E	225	1,000	CY	UNDERCUT EXCAVATION	4152000000-N	907	1	EA	DISPOSAL OF SIGN SYSTEM, STEEL BEAM	5558000000-E	1515	7	EA	12" VALVE
0043000000-N	226	Lump Sum		GRADING	4155000000-N	907	19	EA	DISPOSAL OF SIGN SYSTEM, U-CHANNEL	5648000000-N	1515	3	EA	RELOCATE WATER METER
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUBBING	4238000000-N	907	1	EA	DISPOSAL OF SIGN, D, E OR F	5649000000-N	1515	3	EA	RECONNECT WATER METER
0318000000-E	300	184	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	4400000000-E	1110	527	SF	WORK ZONE SIGNS (STATIONARY)	5672000000-N	1515	1	EA	RELOCATE FIRE HYDRANT
0372000000-E	310	168	LF	18" RC PIPE CULVERTS, CLASS III	4405000000-E	1110	512	SF	WORK ZONE SIGNS (PORTABLE)	5798000000-E	1530	292	LF	ABANDON *** UTILITY PIPE (8")
0708000000-E	310	96	LF	15" BIT COAT CS PIPE CULVERTS, TYPE B 0.064" THICK	4410000000-E	1110	108	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	5882000000-N	SP	1	EA	GENERIC UTILITY ITEM RELOCATE 2" WATER METER
0995000000-E	340	318	LF	PIPE REMOVAL	4415000000-N	1115	2	EA	FLASHING ARROW PANELS, TYPE C	5912000000-N	SP	Lump Sum		GENERIC UTILITY ITEM RELOCATE 2" WATER MAIN ATTACHMENT
1220000000-E	545	500	TON	INCIDENTAL STONE BASE	4420000000-N	1120	2	EA	CHANGEABLE MESSAGE SIGN	6000000000-E	1605	530	LF	TEMPORARY SILT FENCE
1491000000-E	610	1,460	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C	4430000000-N	1130	50	EA	DRUMS	6006000000-E	1610	580	TON	STONE FOR EROSION CONTROL, CLASS A
1503000000-E	610	885	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0C	4435000000-N	1135	50	EA	CONES	6009000000-E	1610	185	TON	STONE FOR EROSION CONTROL, CLASS B
1523000000-E	610	1,270	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	4445000000-E	1145	104	LF	BARRICADES (TYPE III)	6012000000-E	1610	1,100	TON	SEDIMENT CONTROL STONE
1560000000-E	620	105	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	4455000000-N	1150	240	MD	FLAGGER	6015000000-E	1615	3	ACR	TEMPORARY MULCHING
1565000000-E	620	83	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	4480000000-N	1165	2	EA	TEMPORARY CRASH CUSHIONS	6018000000-E	1620	100	LB	SEED FOR TEMPORARY SEEDING
1693000000-E	654	266	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	4485000000-E	1170	206	LF	PORTABLE CONCRETE BARRIER	6019000000-E	1620	0.5	TON	FERTILIZER FOR TEMPORARY SEEDING
2022000000-E	815	70	CY	SUBDRAIN EXCAVATION	4495000000-E	1170	206	LF	PORTABLE CONCRETE BARRIER (DRAINAGE)	6029000000-E	SP	350	LF	SAFETY FENCE
2033000000-E	815	55	CY	SUBDRAIN FINE AGGREGATE	4507000000-E	SP	290	LF	WATER FILLED BARRIER	6030000000-E	1630	685	CY	SILT EXCAVATION
2044000000-E	815	300	LF	6" PERFORATED SUBDRAIN PIPE	4510000000-N	SP	150	HR	POLICE	6036000000-E	1631	600	SY	MATTING FOR EROSION CONTROL
2055000000-E	815	9	EA	6" SUBDRAIN PIPE WYES, TEES, & ELBOWS	4650000000-N	1251	203	EA	TEMPORARY RAISED PAVEMENT MARKERS	6070000000-N	SP	20	EA	SPECIAL STILLING BASINS
2066000000-N	815	1	EA	CONCRETE PAD FOR SUBDRAIN PIPE OUTLET	4770000000-E	1205	917	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (4") (TYPE 4)	6071030000-E	SP	45	LF	COIR FIBER BAFFLES
2077000000-E	815	12	LF	6" OUTLET PIPE (SUBDRAINS)	4795000000-E	1205	22	LF	COLD APPLIED PLASTIC PAVEMENT MARKING LINES, TYPE ** (24") (TYPE 4)	6084000000-E	1660	3	ACR	SEEDING & MULCHING
2264000000-E	840	1	CY	PIPE PLUGS	4805000000-N	1205	2	EA	COLD APPLIED PLASTIC PAVEMENT MARKING SYMBOL, TYPE ** (TYPE 4)	6087000000-E	1660	2	ACR	MOWING
2286000000-N	840	21	EA	MASONRY DRAINAGE STRUCTURES	4810000000-E	1205	28,138	LF	PAINT PAVEMENT MARKING LINES (4")	6090000000-E	1661	50	LB	SEED FOR REPAIR SEEDING
2308000000-E	840	10	LF	MASONRY DRAINAGE STRUCTURES	4815000000-E	1205	536	LF	PAINT PAVEMENT MARKING LINES (24")	6093000000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
2367000000-N	840	9	EA	FRAME WITH TWO GRATES, STD 840.29	4820000000-E	1205	1,472	LF	PAINT PAVEMENT MARKING LINES (8")	6096000000-E	1662	75	LB	SEED FOR SUPPLEMENTAL SEEDING
2374000000-N	840	3	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	4835000000-E	1205	536	LF	PAINT PAVEMENT MARKING LINES (24")	6108000000-E	1665	2.25	TON	FERTILIZER TOPDRESSING
2374000000-N	840	6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	4840000000-N	1205	32	EA	PAINT PAVEMENT MARKING CHARACTER	6114000000-N	SP	2	HR	SPECIALIZED HAND MOWING
2374000000-N	840	2	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	4845000000-N	1205	82	EA	PAINT PAVEMENT MARKING SYMBOL	6117000000-N	SP	8	EA	RESPONSE FOR EROSION CONTROL
2396000000-N	840	1	EA	FRAME WITH COVER, STD 840.54	4847000000-E	1205	5,915	LF	POLYUREA PAVEMENT MARKING LINES (4", *****) (HIGHLY REFLECTIVE ELEMENT)	7000000000-E	1705	8	EA	PEDESTRIAN SIGNAL HEAD (***, ** SECTION) (16", 1 SECTION WITH COUNTDOWN)
2535000000-E	846	85	LF	***X*** CONCRETE CURB (8" X 12")	4847100000-E	1205	640	LF	POLYUREA PAVEMENT MARKING LINES (8", *****) (HIGHLY REFLECTIVE ELEMENT)	7060000000-E	1705	3,053	LF	SIGNAL CABLE
2549000000-E	846	1,460	LF	2'-6" CONCRETE CURB & GUTTER	4847140000-E	1205	216	LF	POLYUREA PAVEMENT MARKING LINES (24", *****) (HIGHLY REFLECTIVE ELEMENT)	7120000000-E	1705	18	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
2612000000-E	848	87	SY	6" CONCRETE DRIVEWAY	4847200000-N	1205	8	EA	POLYUREA PAVEMENT MARKING CHARACTER (*****) (HIGHLY REFLECTIVE ELEMENT)	7132000000-E	1705	4	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)
2738000000-E	SP	845	SY	GENERIC PAVING ITEM 6" STAMPED CONCRETE SIDEWALK	4847220000-N	1205	28	EA	POLYUREA PAVEMENT MARKING SYMBOL (*****) (HIGHLY REFLECTIVE ELEMENT)	7144000000-E	1705	7	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
2759000000-N	SP	9	EA	GENERIC PAVING ITEM STAMPED CONC WHEELCHAIR RAMPS	4847200000-N	1205	8	EA	POLYUREA PAVEMENT MARKING CHARACTER (*****) (HIGHLY REFLECTIVE ELEMENT)	7204000000-N	SP	14	EA	LOUVER
2766000000-N	SP	Lump Sum		GENERIC PAVING ITEM WOODEN PEDESTRIAN RAMP	4847200000-N	1205	8	EA	POLYUREA PAVEMENT MARKING CHARACTER (*****) (HIGHLY REFLECTIVE ELEMENT)	7264000000-E	1710	483	LF	MESSENGER CABLE (3/8")
2830000000-N	858	10	EA	ADJUSTMENT OF MANHOLES	4847220000-N	1205	28	EA	POLYUREA PAVEMENT MARKING SYMBOL (*****) (HIGHLY REFLECTIVE ELEMENT)	7288000000-E	1715	25	LF	PAVED TRENCHING (*****) (1, 2')
2845000000-N	858	11	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	4850000000-E	1205	2,976	LF	REMOVAL OF PAVEMENT MARKING LINES (4")	7300000000-E	1715	416	LF	UNPAVED TRENCHING (*****) (1, 2')
2905000000-N	859	1	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX	4870000000-E	1205	78	LF	REMOVAL OF PAVEMENT MARKING LINES (24")	7301000000-E	1715	250	LF	DIRECTIONAL DRILL (*****) (2, 1-1/4')
3360000000-E	863	110	LF	REMOVE EXISTING GUARDRAIL	4875000000-N	1205	8	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	7324000000-N	1716	10	EA	JUNCTION BOX (STANDARD SIZE)
3563000000-E	SP	510	LF	TEMP *** WOVEN WIRE FENCE, COMPLETE W/POSTS (48")	4880000000-E	1205	1,200	LF	CURING COMPOUND REMOVAL, LINES	7360000000-N	1720	3	EA	WOOD POLE
3656000000-E	876	1,400	SY	FILTER FABRIC FOR DRAINAGE	4885000000-N	1205	9	EA	CURING COMPOUND REMOVAL, SYMBOLS & CHARACTERS	7372000000-N	1721	6	EA	GUY ASSEMBLY
3659000000-N	SP	2	EA	PREFORMED SCOUR HOLES WITH LEVEL SPREADER APRON	4900000000-N	1251	19	EA	PERMANENT RAISED PAVEMENT MARKERS	7408000000-E	1722	2	EA	1" RISER WITH WEATHERHEAD
4072000000-E	903	518	LF	SUPPORTS, 3-LB STEEL U-CHANNEL	4905000000-N	1253	98	EA	SNOWPLOWABLE PAVEMENT MARKERS	7420000000-E	1722	4	EA	2" RISER WITH WEATHERHEAD
4096000000-N	904	12	EA	SIGN ERECTION, TYPE D	5255000000-N	1413	Lump Sum		PORTABLE LIGHTING	7444000000-E	1725	1,865	LF	INDUCTIVE LOOP SAWCUT
					5325600000-E	1510	87	LF	6" WATER LINE	7456000000-E	1726	2,349	LF	LEAD-IN CABLE (*****) (14-2)
					5325800000-E	1510	58	LF	8" WATER LINE	7481000000-N	SP	1	EA	SITE SURVEY
										7481280000-N	SP	1	EA	RELOCATE CAMERA SENSOR UNIT

5/14/99
04-AUG-2004 07:21
JDG:abam

STATE OF NORTH CAROLINA SUMMARY OF QUANTITIES

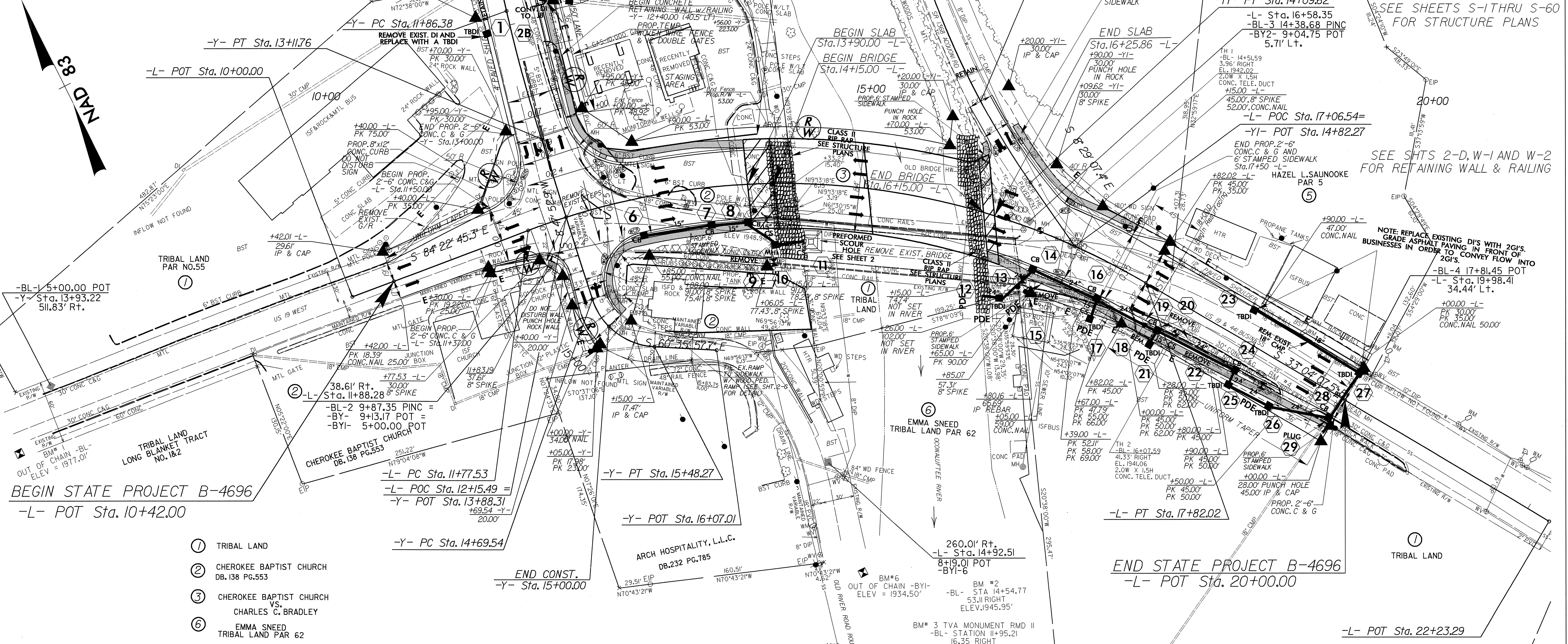
ItemNumber	Sec #	Quantity	Unit	Description
7613000000-N	SP	5	EA	SOIL TEST
7614100000-E	SP	40	CY	DRILLED PIER FOUNDATION
7631000000-N	SP	5	EA	MAST ARM WITH METAL POLE DE-SIGN
7636000000-N	1745	4	EA	SIGN FOR SIGNALS
7684000000-N	1750	3	EA	SIGNAL CABINET FOUNDATION
7756000000-N	1751	2	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
7780000000-N	1751	7	EA	DETECTOR CARD (TYPE 2070L)
7901000000-N	1753	2	EA	CABINET BASE EXTENDER
7980000000-N	SP	1	EA	GENERIC SIGNAL ITEM DECORATIVE METAL POLE WITH DUAL MAST ARM
7980000000-N	SP	4	EA	GENERIC SIGNAL ITEM DECORATIVE METAL POLE WITH SINGLE MAST ARM
7980000000-N	SP	3	EA	GENERIC SIGNAL ITEM DECORATIVE SIGNAL PEDESTAL W/ FOUNDATION

***** BEGIN SCHEDULE AA ***** (3 ALTERNATES)				
0366000000-E	310	288	LF	15" RC PIPE CULVERTS, CLASS III
0378000000-E	310	380	LF	24" RC PIPE CULVERTS, CLASS III
*** OR ***				
0366000000-E	310	248	LF	15" RC PIPE CULVERTS, CLASS III
0378000000-E	310	268	LF	24" RC PIPE CULVERTS, CLASS III
0536000000-E	SP	40	LF	**** HDPE PIPE CULVERTS (15")
0536000000-E	SP	112	LF	**** HDPE PIPE CULVERTS (24")
*** OR ***				
0366000000-E	310	248	LF	15" RC PIPE CULVERTS, CLASS III
0378000000-E	310	268	LF	24" RC PIPE CULVERTS, CLASS III

ItemNumber	Sec #	Quantity	Unit	Description
0540000000-E	SP	40	LF	**** ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, **** THICK (15", 0.064")
0540000000-E	SP	112	LF	**** ALUMINIZED CORRUGATED STEEL PIPE CULVERTS, **** THICK (24", 0.064")
***** END SCHEDULE AA *****				
***** BEGIN SCHEDULE AB ***** (2 ALTERNATES)				
7481220000-N	SP	1	EA	CAMERA WITH INTERNAL LOOP EMULATOR PROCESSING UNIT
*** OR ***				
7481240000-N	SP	1	EA	CAMERA WITHOUT INTERNAL LOOP EMULATOR PROCESSING UNIT
7481260000-N	SP	1	EA	EXTERNAL LOOP EMULATOR PROCESSING UNIT
***** END SCHEDULE AB *****				

PROJECT REFERENCE NO. B-4696	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 4/9/07	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 4/9/07

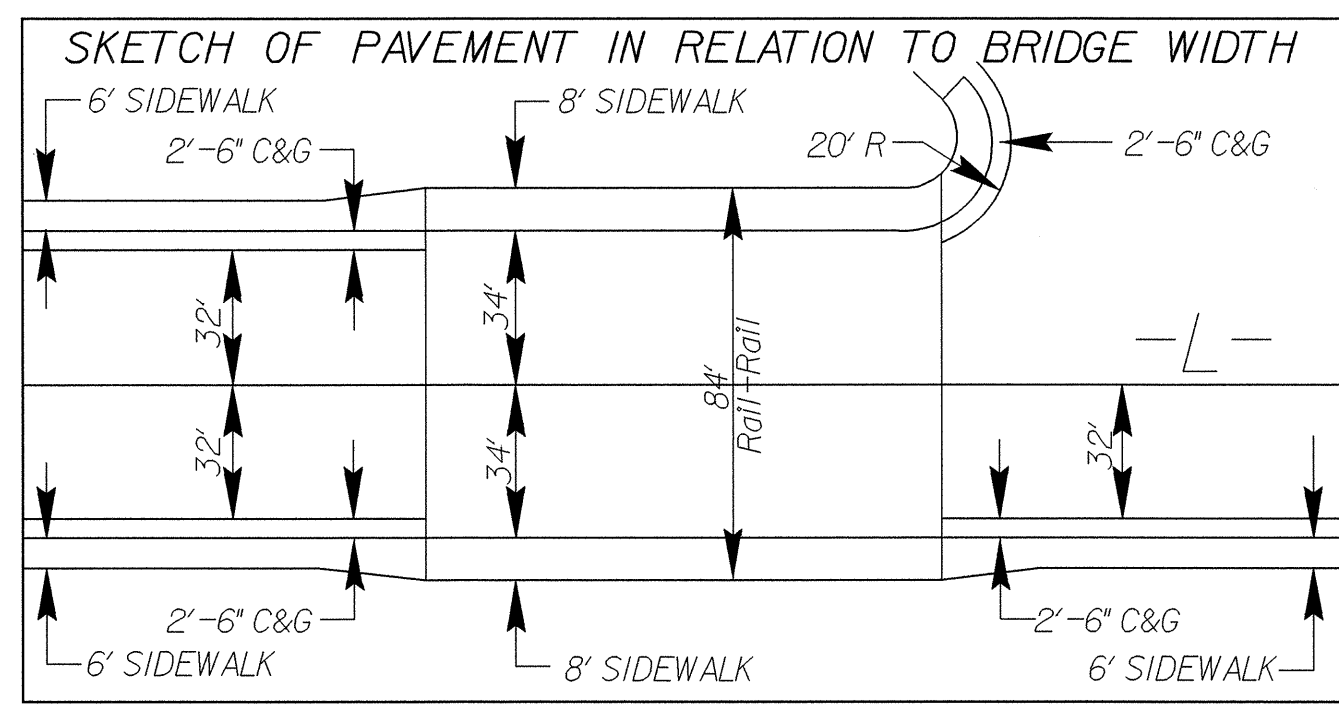
DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "B-24,6PS 101"
 WITH HARN - MAD 1983/95 STATE PLANE GRID COORDINATES OF NORTHING: 656744.388608(1) EASTING: 714159.096613(1)
 THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999792150
 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "B-24,6PS 101" TO L-STATION 10+42.00 IS
 S 50° 49' 09.52" W 307.126 FT
 ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES
 VERTICAL DATUM USED IS NAVD 88



BEGIN STATE PROJECT B-4696
 -L- POT Sta. 10+42.00

END STATE PROJECT B-4696
 -L- POT Sta. 20+00.00

- ① TRIBAL LAND
- ② CHEROKEE BAPTIST CHURCH DB. 138 PG. 553
- ③ CHEROKEE BAPTIST CHURCH CHARLES C. BRADLEY
- ⑥ EMMA SNEED TRIBAL LAND PAR 62



-L-	-Y-	-YI-
PI Sta 15+01.74 Δ = 5' 18" 37.7" (RT) D = 8' 29" 17.7" L = 604.49' T = 324.21' R = 675.00' SE = 0.025 RO = 112'	PI Sta 12+49.11 Δ = 4' 47" 21.2" (LT) D = 3' 49" 11.0" L = 125.38' T = 62.73' R = 1,500.00' SE = VAR. SEE PLANS	PI Sta 15+14.55 Δ = 69' 23' 50.5" (LT) D = 88' 08' 50.5" L = 787.3' T = 45.01' R = 65.00' SE = VAR. SEE PLANS
		PI Sta 10+79.24 Δ = 6' 16' 06.6" (LT) D = 4' 46' 28.7" L = 131.29' T = 45.01' R = 1,200.00'
		PI Sta 12+97.41 Δ = 16' 36' 05.4" (LT) D = 7' 20' 44.2" L = 226.01' T = 113.80' R = 780.00' SE = VAR. SEE PLANS

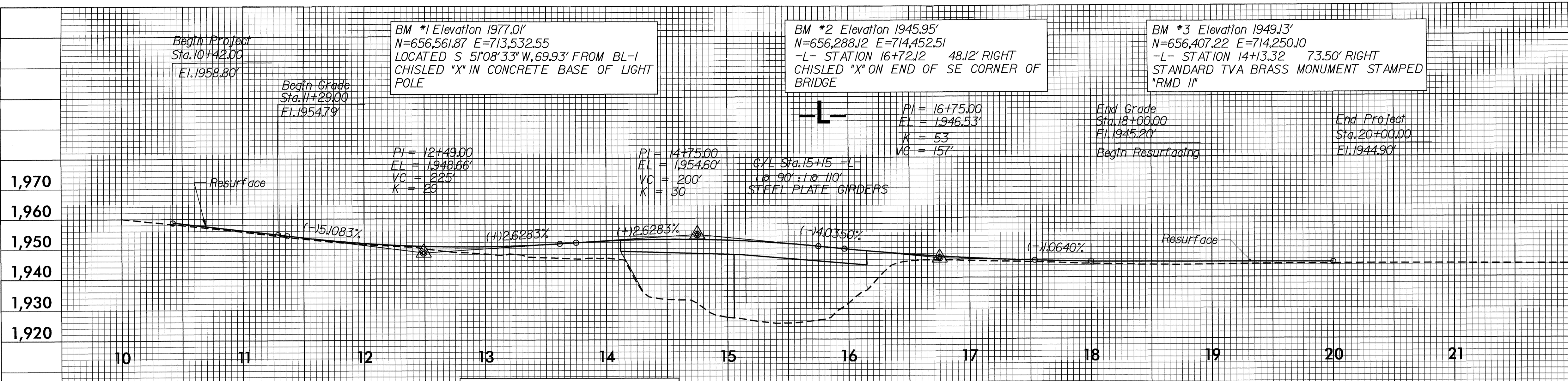
145 288	US 441	70 134	SR 1368
130 244	50 104	90 180	170 320
US 441 BUS./ US 19	3 5	3 5	US 441 BUS./ US 19
			183 338
			2004 vpd (in 100's) 2025 vpd (in 100's)

SEE SHEET 5 FOR PROFILES
 PAVEMENT REMOVAL
 BRIDGE APPROACH SLABS
 SEE SHEETS S-1 THRU S-60 FOR STRUCTURE PLANS
 SEE SHTS 2-D, W-1 AND W-2 FOR RETAINING WALL & RAILING

NOTE: REPLACE EXISTING DI'S WITH 2G'S. GRADE ASPHALT PAVING IN FRONT OF 2G'S. IN ORDER TO CONVEY FLOW INTO 2G'S.
 -BL-4 17+81.45 POT
 -L- Sta. 19+98.41
 34.44' Lt.
 +00.00 -L-
 PK 30.00
 CONC. NAIL 50.00'

5/14/99

PROJECT REFERENCE NO. B-4696	SHEET NO. 5
ROADWAY DESIGN ENGINEER SEAL 4435 C. LAWSON 8/18/06	HYDRAULICS ENGINEER SEAL 4433 C. LAWSON 8/18/06



BM *1 Elevation 1977.01'
N=656,561.87 E=713,532.55
LOCATED S 57°08'33" W, 69.93' FROM BL-1
CHISLED "X" IN CONCRETE BASE OF LIGHT
POLE

BM *2 Elevation 1945.95'
N=656,288.12 E=714,452.51
-L- STATION 16+72.12 48.12' RIGHT
CHISLED "X" ON END OF SE CORNER OF
BRIDGE

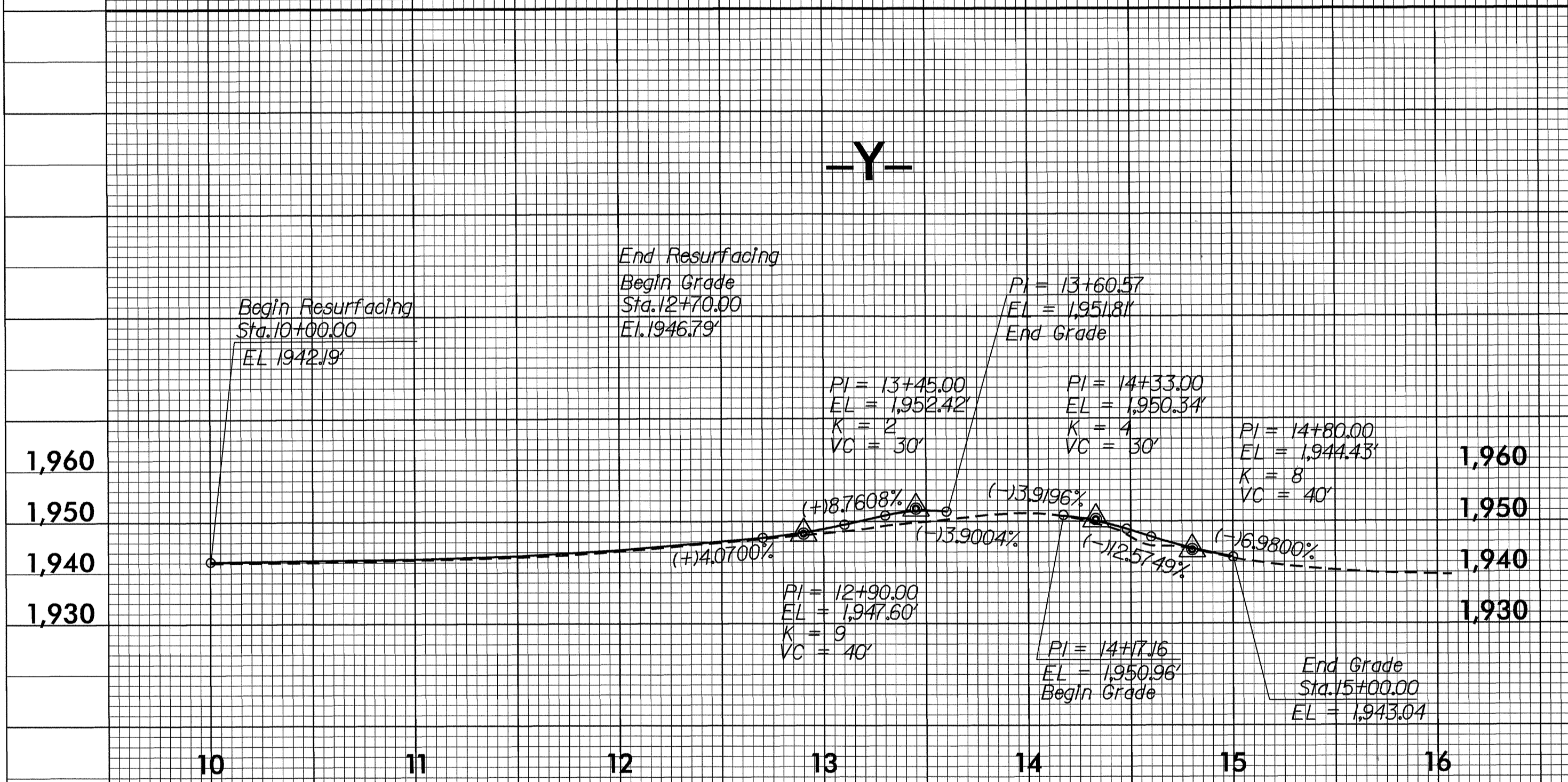
BM *3 Elevation 1949.13'
N=656,407.22 E=714,250.10
-L- STATION 14+13.32 73.50' RIGHT
STANDARD TVA BRASS MONUMENT STAMPED
"RMD II"

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	= 15000 CFS
DESIGN FREQUENCY	= 50 YRS
DESIGN HW ELEVATION	= 1940.38 FT
BASE DISCHARGE	= 17200 CFS
BASE FREQUENCY	= 100 YRS
BASE HW ELEVATION	= 1941.52 FT
OVERTOPPING DISCHARGE	= 22900 CFS
OVERTOPPING FREQUENCY	= 500 YRS
OVERTOPPING ELEVATION	= 1943.93 FT

BM *4 Elevation 1944.11'
N=656,098.02 E=714,610.28
-L- STATION 19+25.83 28.49' RIGHT
CHISLED "X" ON CONCRETE SLAB

SEE SHEET 4 FOR PLAN VIEW



BM *7 Elevation 1946.80'
N=656,659.43 E=714,490.40
-L- STATION 11+5.45 7.17' LEFT
8" SPIKE SET IN BASE OF 20" MAPLE TREE

BM *5 Elevation 1940.92'
N=657,010.99 E=714,165.39
-L- STATION 12+13.97 484.04' LEFT
8" SPIKE SET IN BASE OF 30" WHITE PINE
TREE

BM *6 Elevation 1934.50'
N=656,108.11 E=714,195.17
-L- STATION 15+85.25 357.00' RIGHT
8" SPIKE SET IN BASE OF 42" SYCAMORE
TREE

SEE SHEET 4 FOR PLAN VIEW

16-AUG-2006 07:45
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