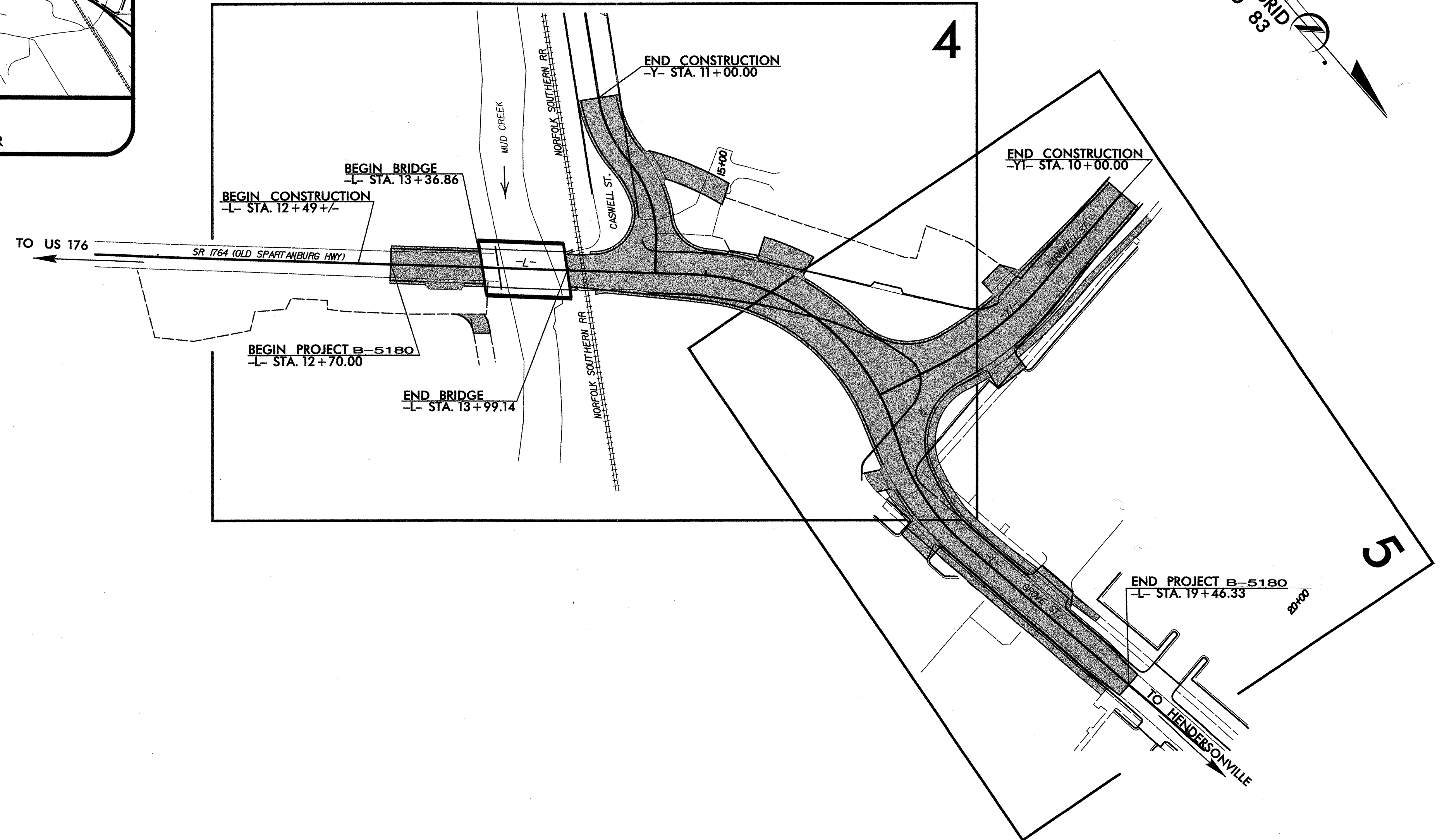
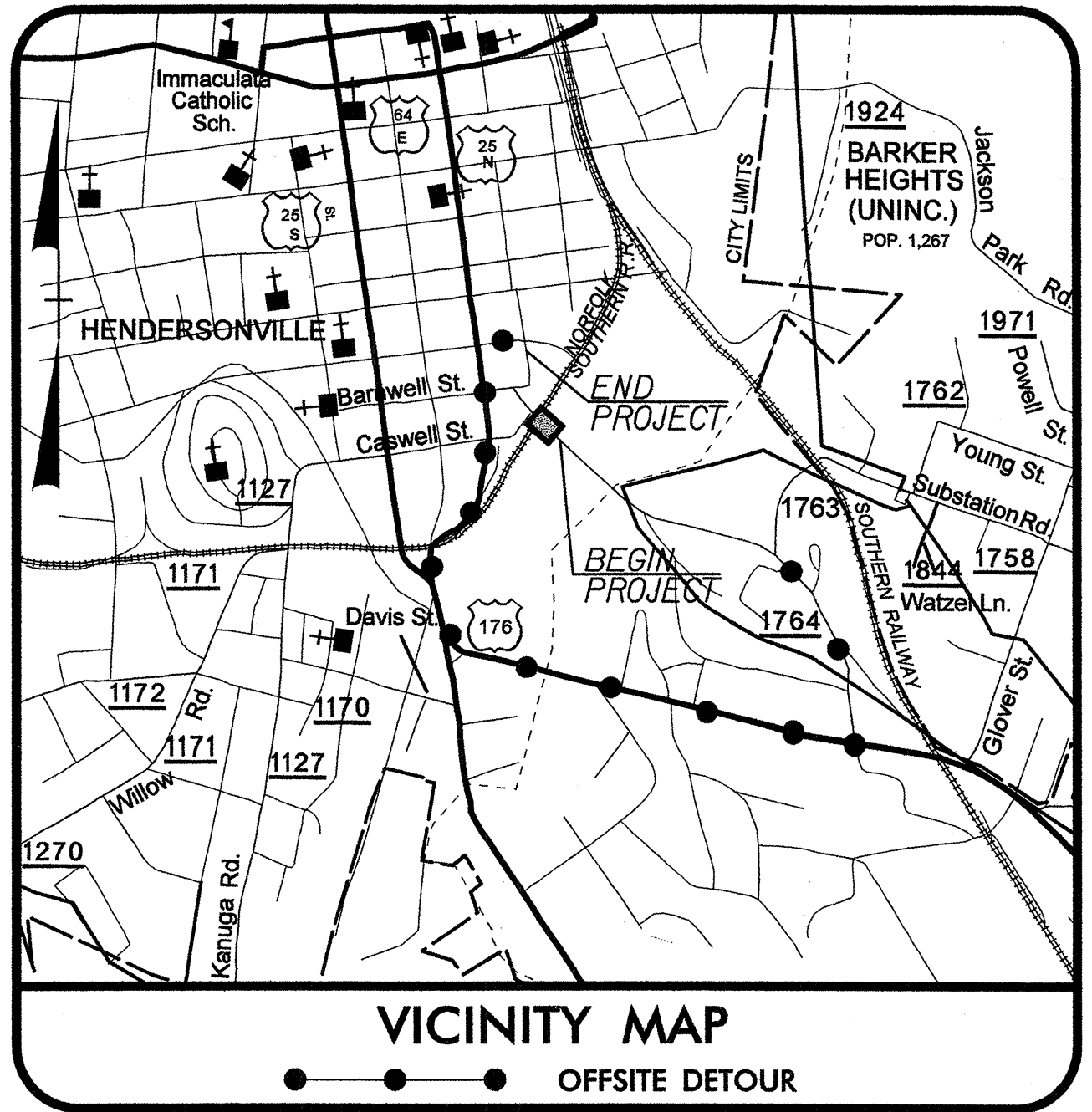


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	B-5180	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
47015.3.1		PE,RW,CONST.	

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
 HENDERSON COUNTY

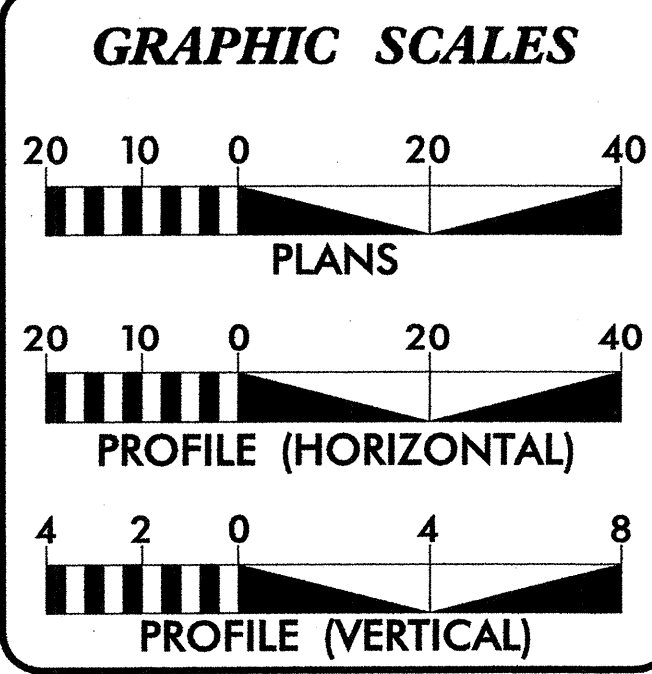
**LOCATION: BRIDGE NO. 205 ON SR 1764 (OLD SPARTANBURG HWY)
 OVER MUD CREEK**
TYPE OF WORK: GRADING, DRAINAGE, PAVING, & STRUCTURE



WBS ELEMENT: 47015

CONTRACT: C202141

See Sheet 1-A For Index of Sheets



DESIGN DATA

ADT(2008) =	7,525
ADT(2028) =	7,025
TTST =	20%
Vd =	40 MPH

PROJECT LENGTH B-5180

LENGTH ROADWAY PROJECT	=	.116 MI
LENGTH STRUCTURE PROJECT	=	.012 MI
TOTAL LENGTH PROJECT	=	.128 MI

Plans Prepared By:
TGS ENGINEERS
 SUITE 141
 975 WALNUT STREET
 GARY, NC 27511
 PH (919) 319-8850

2006 STANDARD SPECIFICATIONS

LETTING DATE:
 MAY 19, 2009

Plans Prepared for:
NC DOT DIVISION 14
 NCDOT Contact:
RALPH CANNADY
 DIVISION PROJECT MANAGER

CHARLES L. FLOWE, PE
 PROJECT ENGINEER

W. CRAIG PARKER, PE
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

William J. Deffen Jr.
 SIGNATURE: 11-7-08
 P.E.

ROADWAY DESIGN ENGINEER

W. Craig Parker
 SIGNATURE: 11-7-08
 P.E.

\$\$\$\$\$ SYSTEM \$\$\$\$\$
 \$\$\$ 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	○ EP
Property Corner	-----
Property Monument	□ ECM
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	○ S
Well	○ W
Small Mine	⋈
Foundation	□
Area Outline	□
Cemetery	□ †
Building	□
School	□
Church	□
Dam	▬

HYDROLOGY:

Stream or Body of Water	-----
Hydro, Pool or Reservoir	□
River Basin Buffer	RBB
Flow Arrow	←
Disappearing Stream	→
Spring	○
Swamp Marsh	⋈
Proposed Lateral, Tail, Head Ditch	▬
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○ MILEPOST 35
Switch	□ SWITCH
RR Abandoned	-----
RR Dismantled	-----

RIGHT OF WAY:

Baseline Control Point	◆
Existing Right of Way Marker	△
Existing Right of Way Line	-----
Proposed Right of Way Line	-----
Proposed Right of Way Line with Iron Pin and Cap Marker	-----
Proposed Right of Way Line with Concrete or Granite Marker	-----
Existing Control of Access	○
Proposed Control of Access	○
Existing Easement Line	E
Proposed Temporary Construction Easement	E
Proposed Temporary Drainage Easement	TDE
Proposed Permanent Drainage Easement	PDE
Proposed Permanent Utility Easement	PUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	C
Proposed Slope Stakes Fill	F
Proposed Wheel Chair Ramp	WCR
Curb Cut for Future Wheel Chair Ramp	CCFR
Existing Metal Guardrail	-----
Proposed Guardrail	-----
Existing Cable Guiderail	-----
Proposed Cable Guiderail	-----
Equality Symbol	⊕
Pavement Removal	▨

VEGETATION:

Single Tree	⊕
Single Shrub	⊙
Hedge	-----
Woods Line	-----
Orchard	⊕ ⊕ ⊕
Vineyard	▨ Vineyard

EXISTING STRUCTURES:

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

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	⊕
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	□
H-Frame Pole	●
Recorded U/G Power Line	P
Designated U/G Power Line (S.U.E.*)	P

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊕
Telephone Booth	□
Telephone Pedestal	⊕
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	□
Recorded U/G Telephone Cable	T
Designated U/G Telephone Cable (S.U.E.*)	T
Recorded U/G Telephone Conduit	TC
Designated U/G Telephone Conduit (S.U.E.*)	TC
Recorded U/G Fiber Optics Cable	T FO
Designated U/G Fiber Optics Cable (S.U.E.*)	T FO

WATER:

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

TV:

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

GAS:

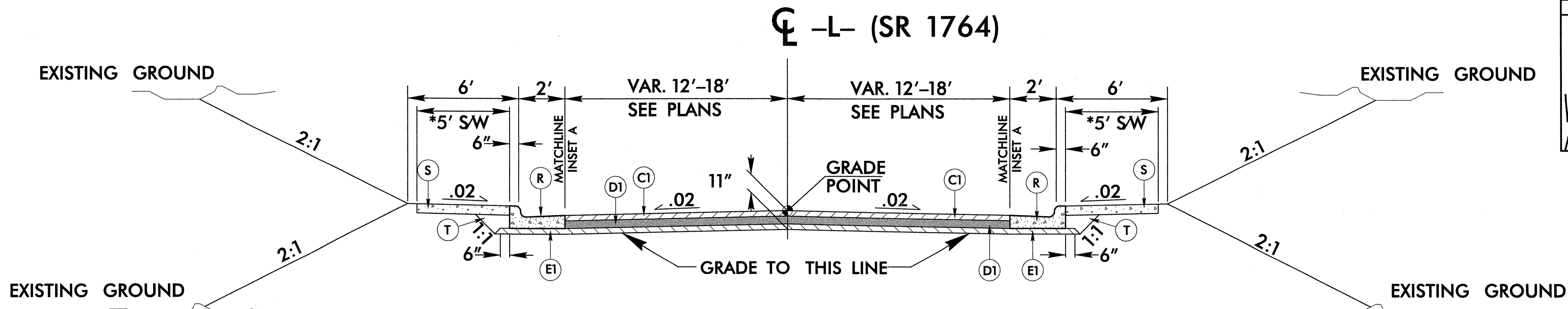
Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	G
Designated U/G Gas Line (S.U.E.*)	G
Above Ground Gas Line	A/G Gas

SANITARY SEWER:

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

MISCELLANEOUS:

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



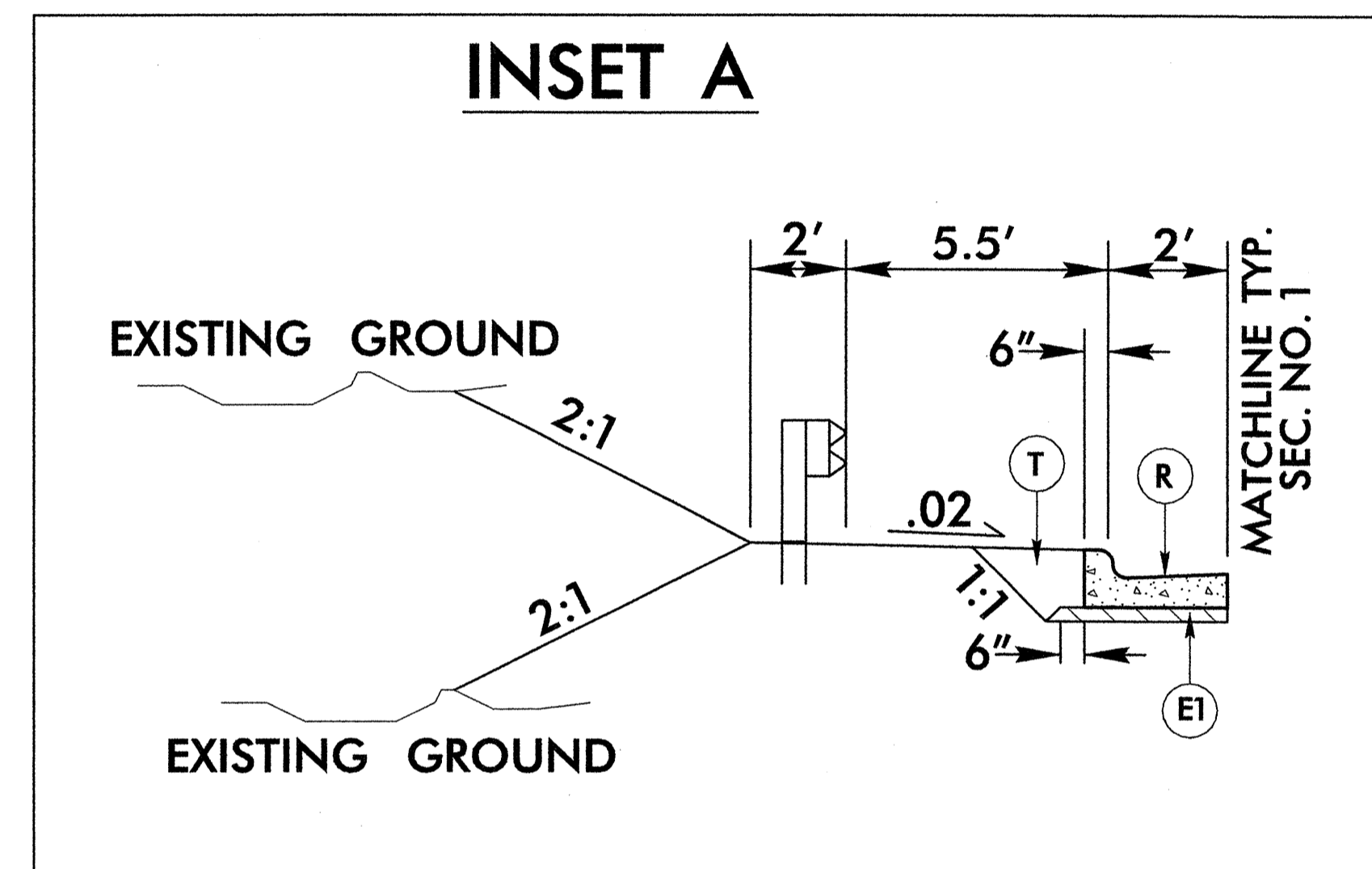
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1 AS FOLLOWS:

- L- 12+90.00 TO 13+36.86(BEGIN BRIDGE)
- L- 13+99.14(END BRIDGE) TO 19+16.33
- *CONSTRUCT SIDEWALK -L- 17+25+/- TO 18+98+/- LT
- L- 17+25+/- TO 19+36+/- RT

NOTE: TRANSITION FROM EXIST. TO TYPICAL SECTION NO.1 FROM:

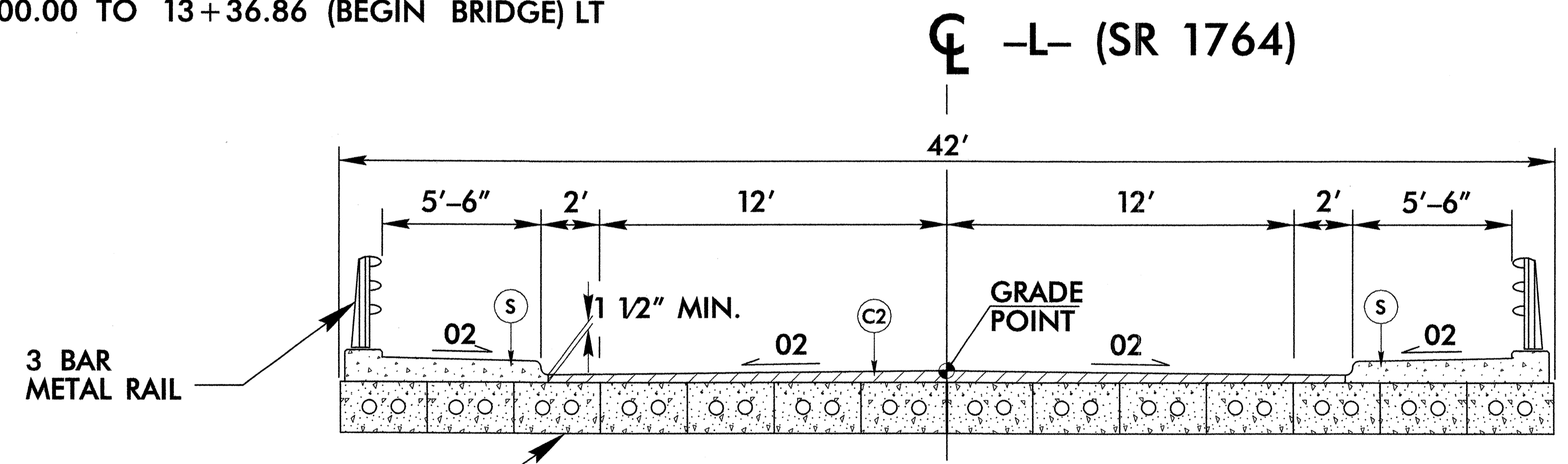
- L- 12+70.00 TO 12+90.00
- L- 19+16.33 TO 19+46.33



USE INSET 'A' AS FOLLOWS:
-L- STA. 13+00.00 TO 13+36.86 (BEGIN BRIDGE) LT

PAVEMENT SCHEDULE	
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.
C2	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R	2'-6" CURB AND GUTTER.
S	SIDEWALK
T	EARTH MATERIAL.

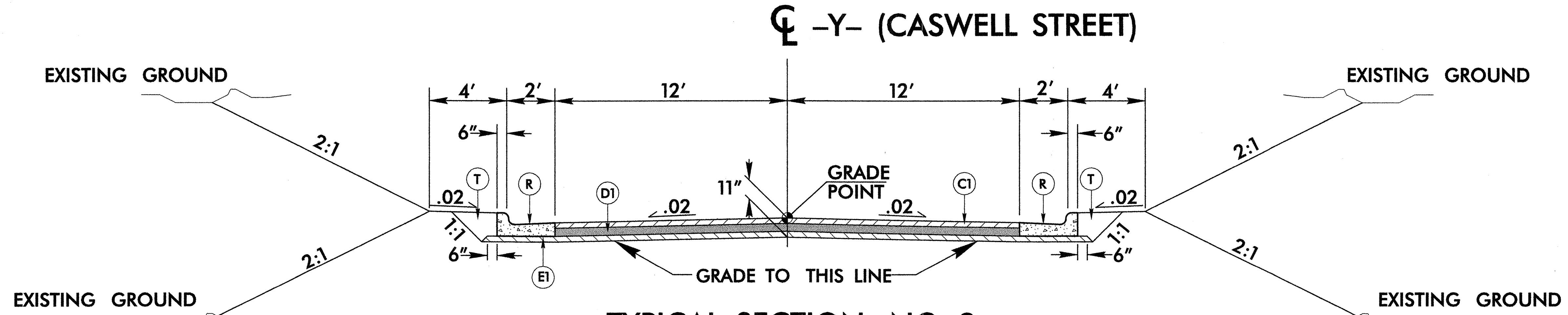
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



TYPICAL SECTION ON STRUCTURE

-L- 13+36.86(BEGIN BRIDGE) TO 13+99.14(END BRIDGE)

6/22/99
C:\TILE\CON\B-5180\B-5180-2.DWG
11/6/2008 1:02:25 PM



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2 AS FOLLOWS:

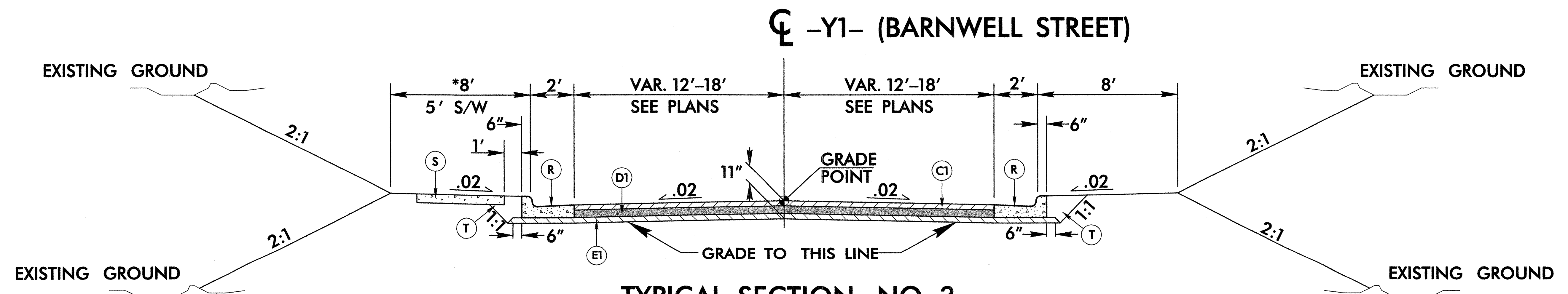
-Y- 11+20.00 TO 12+22.08

NOTE: TRANSITION FROM EXIST. TO TYPICAL SECTION NO.2 FROM:

-Y- 11+00.00 TO 11+20.00

PAVEMENT SCHEDULE	
C1	PROP. APPROX. 3" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B
R	2'-6" CURB AND GUTTER
S	SIDEWALK
T	EARTH MATERIAL

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



TYPICAL SECTION NO. 3

*TIE TO EXISTING WALL FROM:
-Y1- STA. 10+21.75 TO 11+35.08 LT

USE TYPICAL SECTION NO. 3 AS FOLLOWS:

-Y1- 10+30.00 TO 12+14.82

NOTE: TRANSITION FROM EXIST. TO TYPICAL SECTION NO.3 FROM:

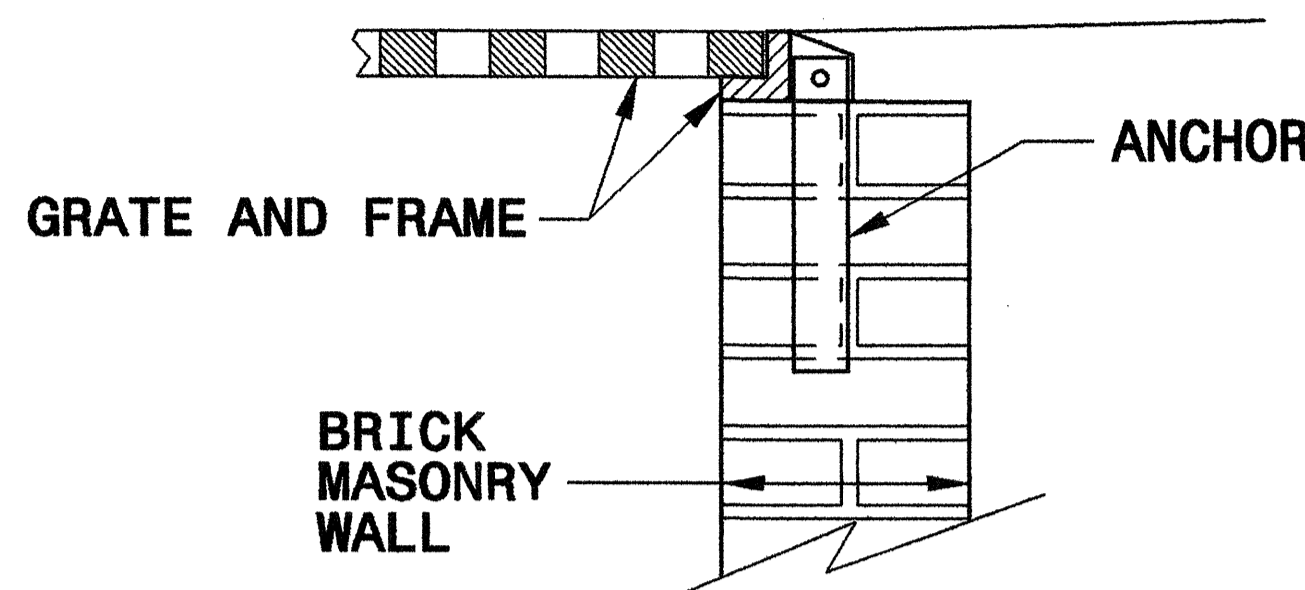
-Y1- 10+00.00 TO 10+30.00

6/2/99
10/13/2008 7:36:25 AM

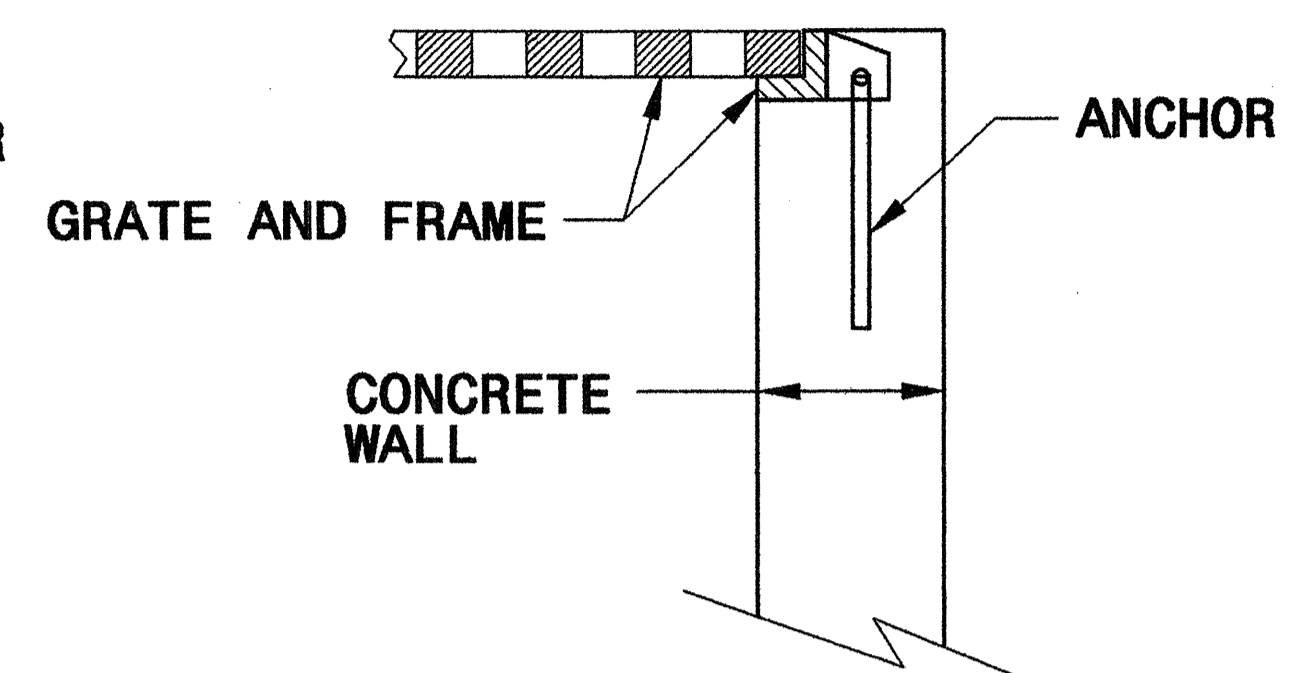
STATE OF NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

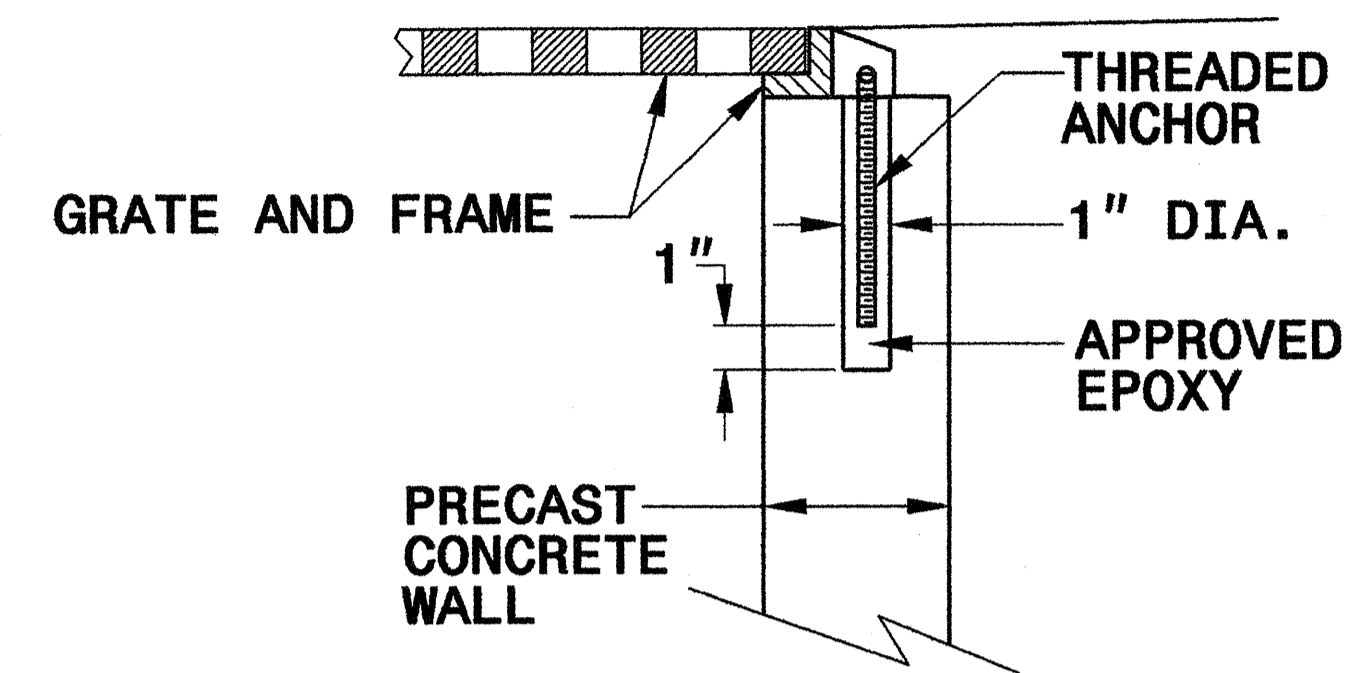
SHEET 1 OF 1
840D25



BRICK MASONRY CONSTRUCTION



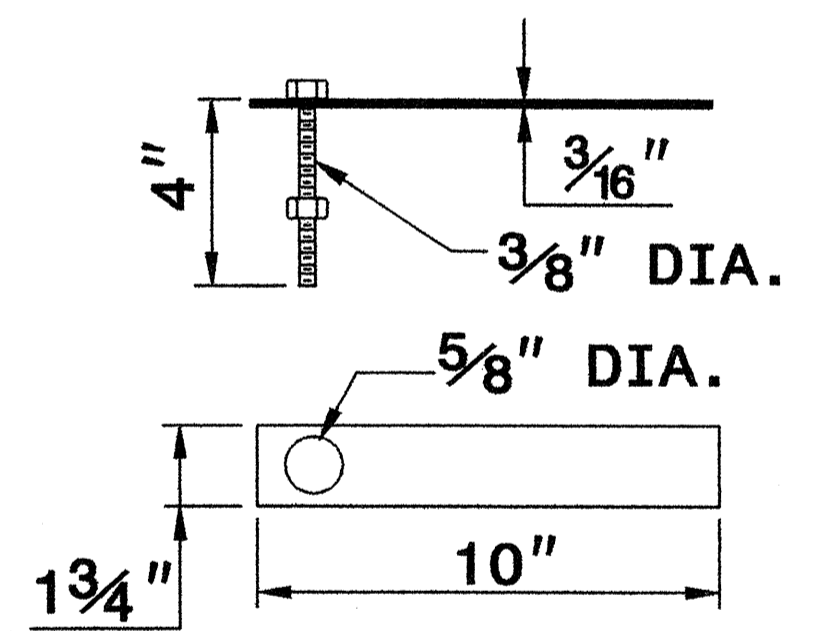
CONCRETE CONSTRUCTION



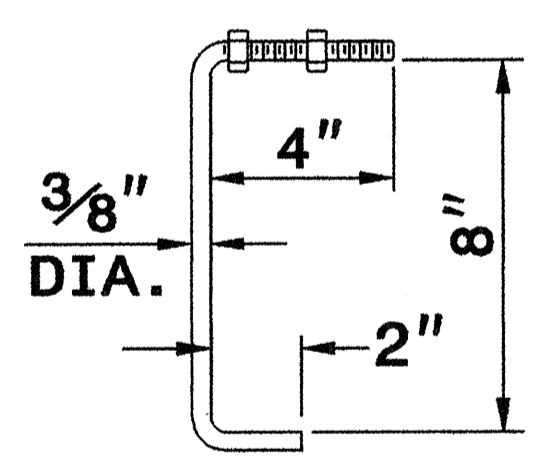
PRECAST CONCRETE CONSTRUCTION

DETAIL SHOWING ANCHORAGE OF FRAME FOR GRATED DROP INLET

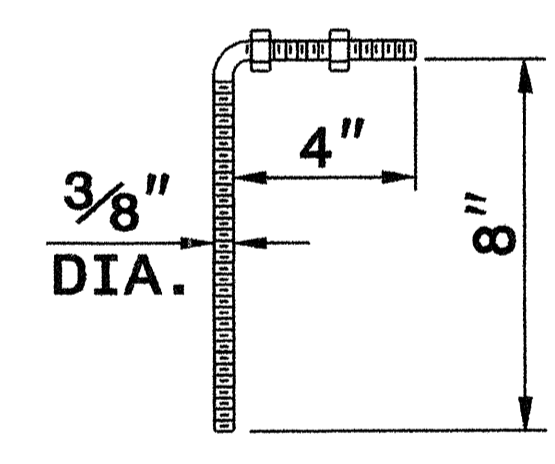
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



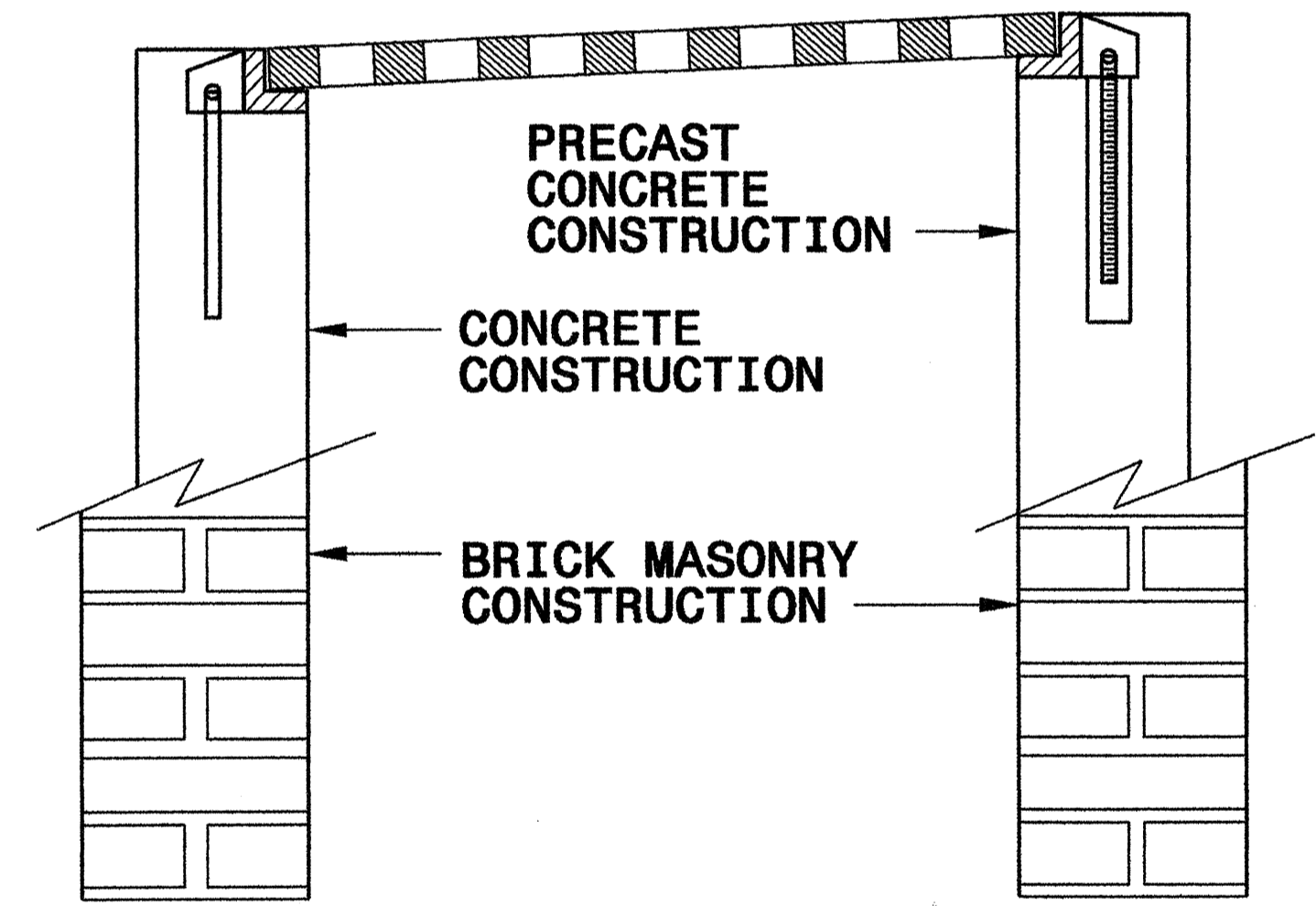
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



CONCRETE ANCHOR
3/8" DIA. BENT BAR



PRECAST CONCRETE ANCHOR
3/8" DIA. BENT BAR



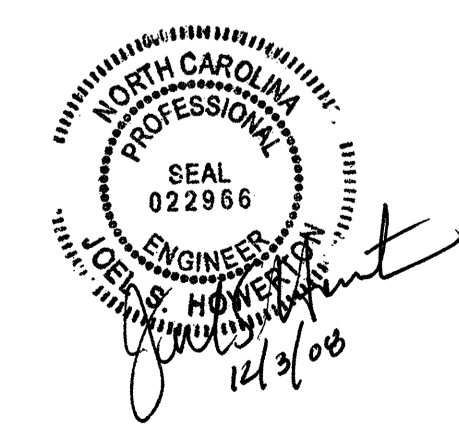
FRAME AND GRATE INSTALLATION FOR NORMAL CROWN AND SUPERELEVATED SECTIONS

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

27-SEP-2006 08:59 C:\projects\Special Details\ereward\stds\06' Std to Special Details\840D25 Anchorage for Frames\0840d25.dgn ereward AT P222293



**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.:

5/28/99

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202141

ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	2367000000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.29	4445000000-E	1145	112	LF	BARRICADES (TYPE III)
0000400000-N	801	Lump Sum		CONSTRUCTION SURVEYING	2374000000-N	840	7	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	4455000000-N	1150	180	MD	FLAGGER
0001010000-N	200	7	EA	SELECT TREE REMOVAL						4810000000-E	1205	10,014	LF	PAINT PAVEMENT MARKING LINES (4")
0043000000-N	226	Lump Sum		GRADING	2374000000-N	840	8	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	4820000000-E	1205	464	LF	PAINT PAVEMENT MARKING LINES (8")
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING	2396000000-N	840	3	EA	FRAME WITH COVER, STD 840.54	4830000000-E	1205	200	LF	PAINT PAVEMENT MARKING LINES (16")
0057000000-E	226	100	CY	UNDERCUT EXCAVATION	2549000000-E	846	1,580	LF	2-6" CONCRETE CURB & GUTTER	4835000000-E	1205	272	LF	PAINT PAVEMENT MARKING LINES (24")
0318000000-E	300	111	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	2591000000-E	848	320	SY	4" CONCRETE SIDEWALK	4840000000-N	1205	4	EA	PAINT PAVEMENT MARKING CHARACTER
0366000000-E	310	584	LF	15" RC PIPE CULVERTS, CLASS III	2605000000-N	848	8	EA	CONCRETE WHEELCHAIR RAMPS	4845000000-N	1205	20	EA	PAINT PAVEMENT MARKING SYMBOL
0378000000-E	310	144	LF	24" RC PIPE CULVERTS, CLASS III	2612000000-E	848	136	SY	6" CONCRETE DRIVEWAY	4905000000-N	1253	48	EA	SNOWPLOWABLE PAVEMENT MARKERS
0974000000-E	SP	32	LF	*** WELDED STEEL PIPE, ***** THICK, GRADE B, (UNDER RR) (36", 0.500")	2830000000-N	858	4	EA	ADJUSTMENT OF MANHOLES	5325600000-E	1510	50	LF	6" WATER LINE
0995000000-E	340	201.3	LF	PIPE REMOVAL	2845000000-N	858	2	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	5326000000-E	1510	40	LF	10" WATER LINE
1220000000-E	545	150	TON	INCIDENTAL STONE BASE	3045000000-E	862	50	LF	STEEL BM GUARDRAIL, SHOP CURVED	5326200000-E	1510	170	LF	12" WATER LINE
1297000000-E	607	270	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")	3195000000-N	862	1	EA	GUARDRAIL ANCHOR UNITS, TYPE AT-1	5522000000-E	1515	2	EA	10" VALVE
1489000000-E	610	1,040	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	3215000000-N	862	1	EA	GUARDRAIL ANCHOR UNITS, TYPE III	5800000000-E	1530	40	LF	ABANDON 6" UTILITY PIPE
1498000000-E	610	760	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B	3435000000-N	SP	1	EA	GENERIC GUARDRAIL ITEM IMPACT ATTENUATOR UNIT, TYPE 350, TL-2	5802000000-E	1530	200	LF	ABANDON 10" UTILITY PIPE
1519000000-E	610	530	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	3554000000-E	866	2	EA	METAL GATE POSTS FOR *** CHAIN LINK FENCE, DOUBLE GATE (72")	5836000000-E	1540	94	LF	24" ENCASEMENT PIPE
1560000000-E	620	113	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	3565000000-E	866	1	EA	DOUBLE GATES, *** HIGH, ** WIDE, ** OPENING (72", 8", 16")	5872200000-E	1550	94	LF	TRENCHLESS INSTALLATION OF 24" IN SOIL
1693000000-E	654	130	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	3628000000-E	876	12	TON	RIP RAP, CLASS 1	6000000000-E	1605	1,485	LF	TEMPORARY SILT FENCE
2264000000-E	840	0.686	CY	PIPE PLUGS	3656000000-E	876	794	SY	FILTER FABRIC FOR DRAINAGE	6006000000-E	1610	115	TON	STONE FOR EROSION CONTROL, CLASS A
2275000000-E	SP	8.8	CY	FLOWABLE FILL	4400000000-E	1110	353	SF	WORK ZONE SIGNS (STATIONARY)	6009000000-E	1610	75	TON	STONE FOR EROSION CONTROL, CLASS B
2286000000-N	840	21	EA	MASONRY DRAINAGE STRUCTURES	4405000000-E	1110	96	SF	WORK ZONE SIGNS (PORTABLE)	6012000000-E	1610	345	TON	SEDIMENT CONTROL STONE
2308000000-E	840	5.36	LF	MASONRY DRAINAGE STRUCTURES	4410000000-E	1110	165	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	6015000000-E	1615	1	ACR	TEMPORARY MULCHING
2364000000-N	840	2	EA	FRAME WITH TWO GRATES, STD 840.16	4430000000-N	1130	40	EA	DRUMS	6018000000-E	1620	50	LB	SEED FOR TEMPORARY SEEDING
										6021000000-E	1620	0.25	TON	FERTILIZER FOR TEMPORARY SEEDING
										6029000000-E	SP	200	LF	SAFETY FENCE
										6030000000-E	1630	115	CY	SILT EXCAVATION
										6036000000-E	1631	960	SY	MATTING FOR EROSION CONTROL
										6042000000-E	1632	480	LF	1/4" HARDWARE CLOTH
										6070000000-N	SP	8	EA	SPECIAL STILLING BASINS
										6084000000-E	1660	0.5	ACR	SEEDING & MULCHING
										6087000000-E	1660	0.5	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	0.5	TON	FERTILIZER TOPDRESSING
										6114000000-N	SP	0.5	HR	SPECIALIZED HAND MOWING
										6117000000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL

5/28/99

10/13/2009 9:26:24 AM

5/14/09

STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

RIGHT OF WAY AREA DATA SHEET

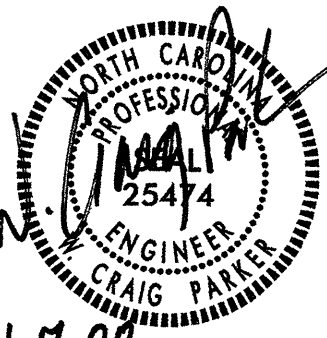

PARCEL NO.	PROPERTY OWNER NAME	RIGHT OF WAY		PERMANENT DRAINAGE EASEMENT		TEMPORARY CONTRUCTION EASEMENT		TEMPORARY DRAINAGE EASEMENT	
		AREA (sf)	AREA (Ac)	AREA (sf)	AREA (Ac)	AREA (sf)	AREA (Ac)	AREA (sf)	AREA (Ac)
1	CITY OF HENDERSONVILLE, NORTH CAROLINA	938.78	0.022	0.00	0.00	206.40	0.005	0.00	0.00
2	FLASHBACK FURNITURE, L.L.C.	3865.71	0.089	530.29	0.012	57.74	0.001	0.00	0.00
3	KING STREET PROFESSIONAL CENTER	128.64	0.003	0.00	0.00	0.00	0.000	0.00	0.00
4	RON P. MERKER AND MARYANN MERKER	2493.73	0.057	0.00	0.00	3411.83	0.078	0.00	0.00
5	PAULETTE R. GARIS	5104.31	0.117	0.00	0.00	2976.50	0.068	0.00	0.00
6	BARKER CONSTRUCTION, INC.	131.29	0.003	0.00	0.00	684.83	0.016	0.00	0.00
7	KENNINGTON SQUARE	677.18	0.016	0.00	0.00	559.49	0.013	0.00	0.00
8	GRIFFIN GATE PROPERTIES, LLC	147.79	0.003	0.00	0.00	627.87	0.014	0.00	0.00
9	BROOKSHIRE PROPERTIES, LLC	334.98	0.008	0.00	0.00	0.00	0.000	0.00	0.00

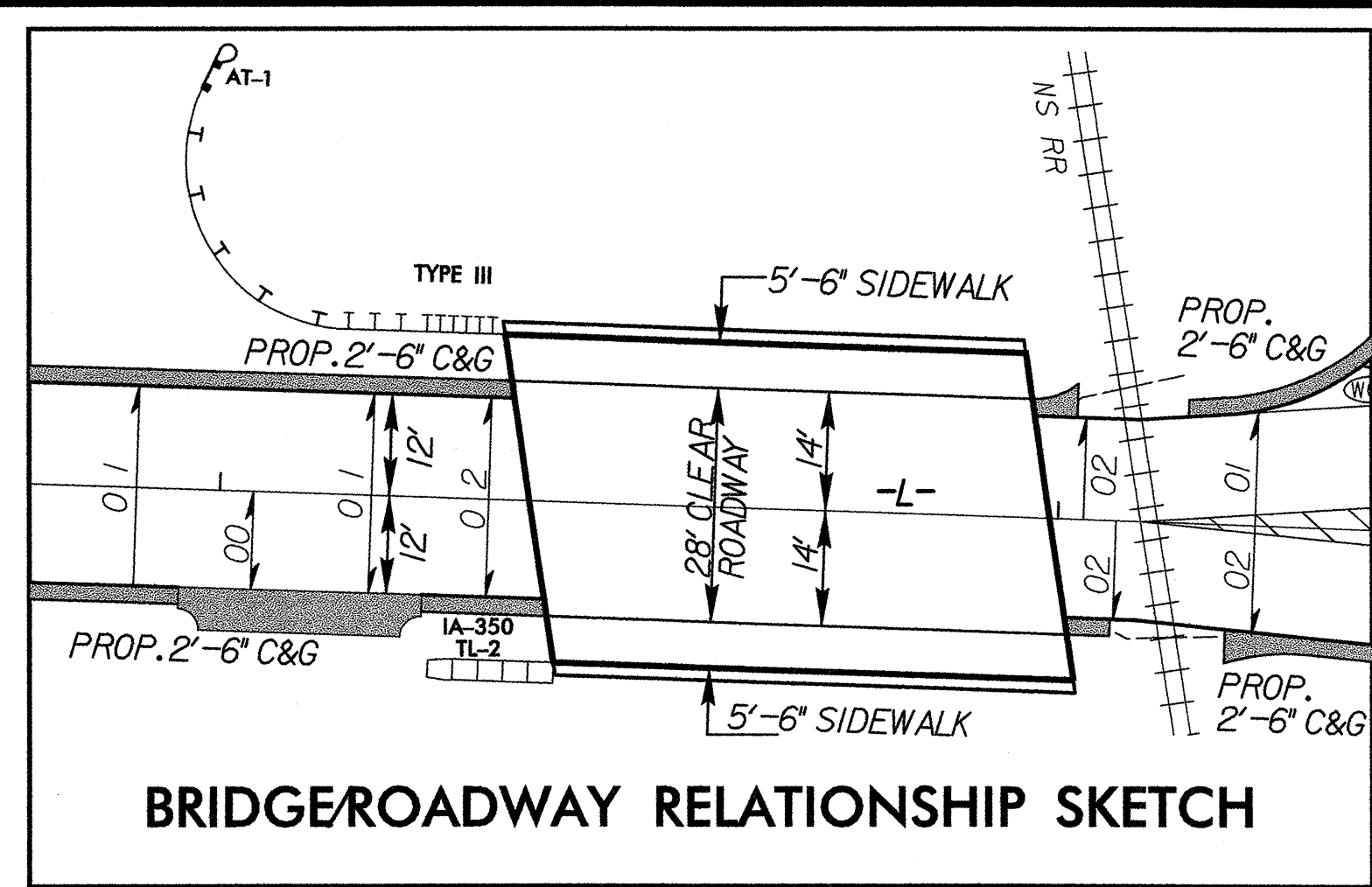
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10/13/2008 8:15:55 AM

8/17/99

K:\6\2008\Roadway\Proj\MA14013B_r_dj_psh4.dgn
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PROJECT REFERENCE NO. B-5180		SHEET NO. 4	
RW SHEET NO.		HYDRAULICS	
ROADWAY DESIGN ENGINEER		ENGINEER	
			
11-7-08		11-7-08	

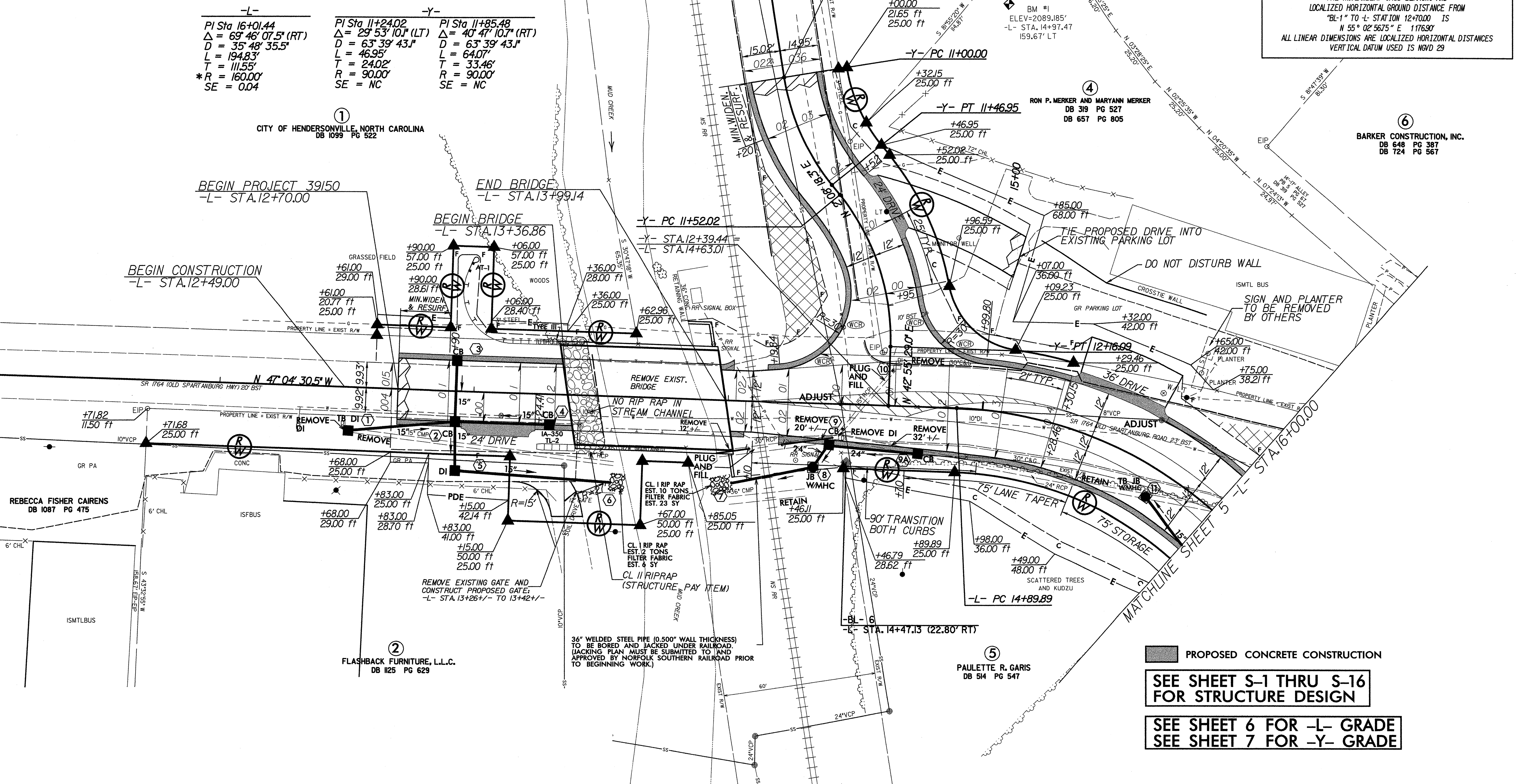


BRIDGE/ROADWAY RELATIONSHIP SKETCH

-L-	-Y-	-Y-
PI Sta 16+01.44	PI Sta 11+24.02	PI Sta 11+85.48
$\Delta = 63^\circ 46' 07.5''$ (RT)	$\Delta = 29^\circ 53' 10.1''$ (LT)	$\Delta = 40^\circ 47' 10.7''$ (RT)
$D = 35^\circ 48' 35.5''$	$D = 63^\circ 39' 43.1''$	$D = 63^\circ 39' 43.1''$
$L = 194.83'$	$L = 46.95'$	$L = 64.07'$
$T = 111.55'$	$T = 24.02'$	$T = 33.46'$
$R = 160.00'$	$R = 90.00'$	$R = 90.00'$
$SE = 0.04$	$SE = NC$	$SE = NC$

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY OTHERS FOR MONUMENT "BL-1" WITH NAD 83 STATE PLANE GRID COORDINATES OF NORTHING: 58565279(F1) EASTING: 97007560(F1) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99887305 THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL-1" TO -L- STATION 12+70.00 IS N 55° 02' 56.75" E 1176.90' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29



PROPOSED CONCRETE CONSTRUCTION

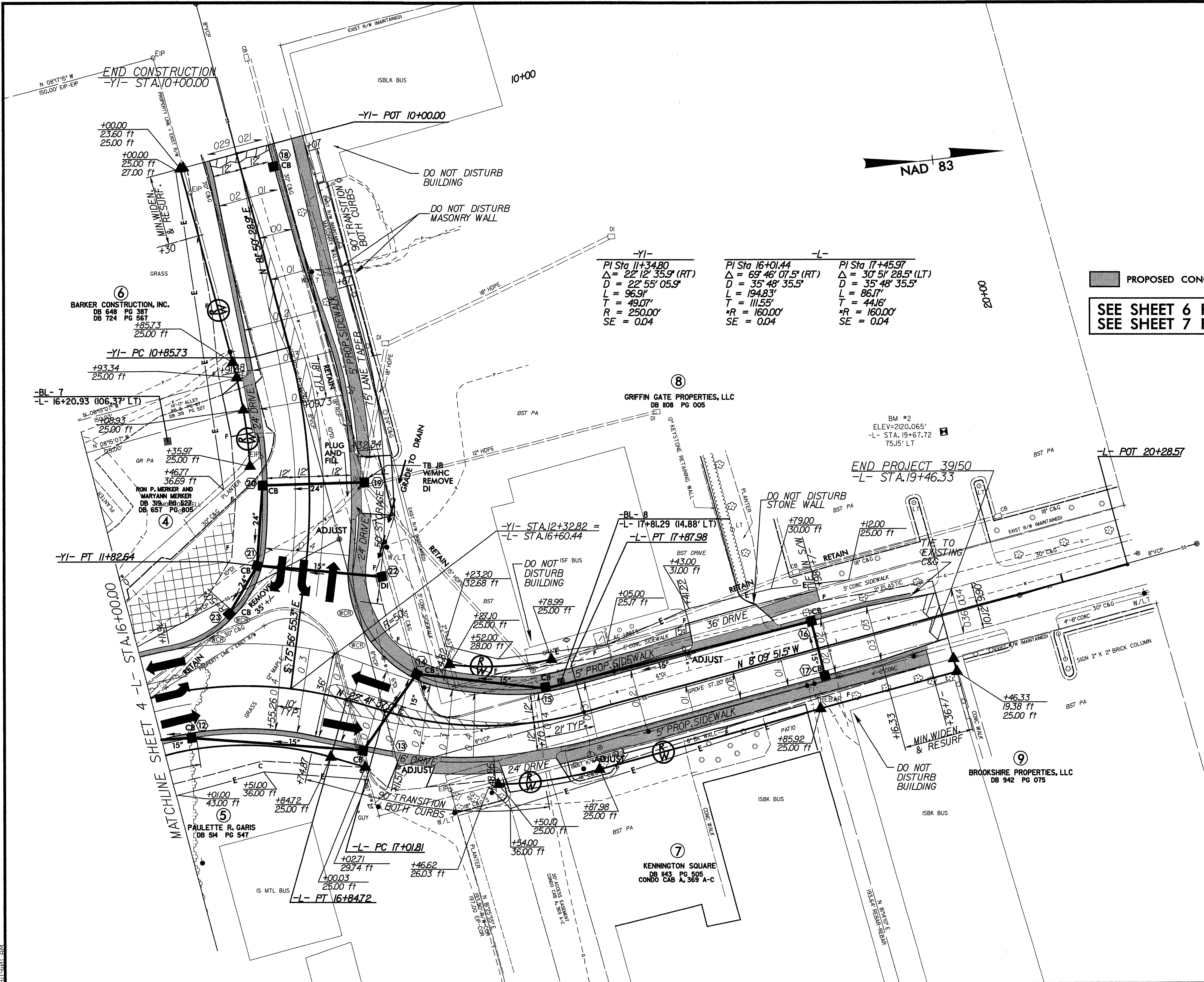
SEE SHEET S-1 THRU S-16 FOR STRUCTURE DESIGN

SEE SHEET 6 FOR -L- GRADE
SEE SHEET 7 FOR -Y- GRADE

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-YI-	-L-	-L-
PI Sta 11+34.80	PI Sta 16+01.44	PI Sta 17+45.97
$\Delta = 22' 12' 35.9''$ (RT)	$\Delta = 69' 46' 07.5''$ (RT)	$\Delta = 30' 51' 28.5''$ (LT)
$D = 22' 55' 05.9''$	$D = 35' 48' 35.5''$	$D = 35' 48' 35.5''$
$L = 96.91'$	$L = 194.83'$	$L = 86.17'$
$T = 49.07'$	$T = 111.55'$	$T = 44.16'$
$R = 250.00'$	$*R = 160.00'$	$*R = 160.00'$
$SE = 0.04$	$SE = 0.04$	$SE = 0.04$

PROPOSED CONCRETE CONSTRUCTION

SEE SHEET 6 FOR -L- GRADE
SEE SHEET 7 FOR -YI- GRADE

MATCHLINE SHEET 4 -L- STA. 16+00.00

N BRIDGE E
15.28' R/W EIP

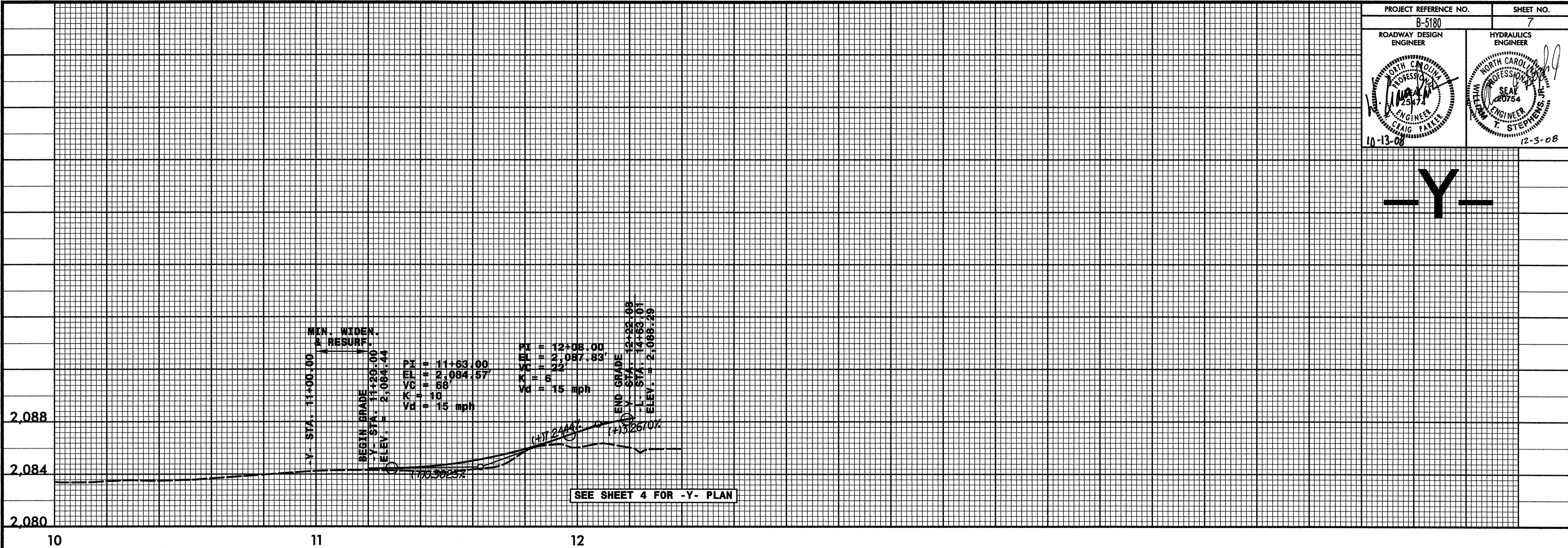
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5/28/99

SYSTEMS DESIGN GROUP

PROJECT REFERENCE NO. B-5180	SHEET NO. 7
ROADWAY DESIGN ENGINEER CLAUIG PATEL	HYDRAULICS ENGINEER F. STEPHENS
10-13-08	12-3-08

-Y-



-Y1-

