

09/28/99

See Sheet 1-A For Index of Sheets

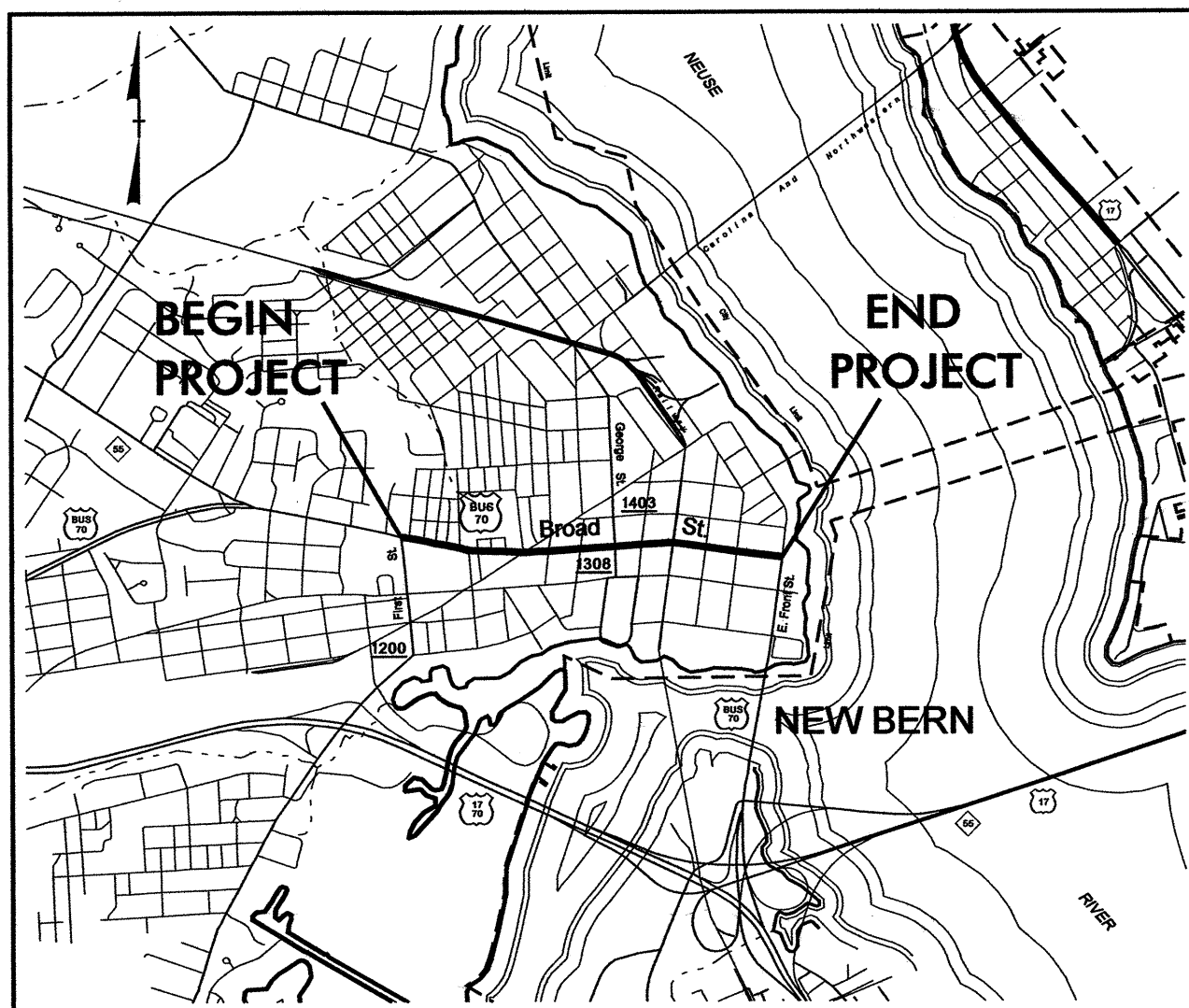
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CRAVEN COUNTY

**LOCATION: US 70 BUSINESS (BROAD STREET) FROM
SR 1200 (FIRST STREET) TO US 70 BUSINESS
(EAST FRONT STREET)**

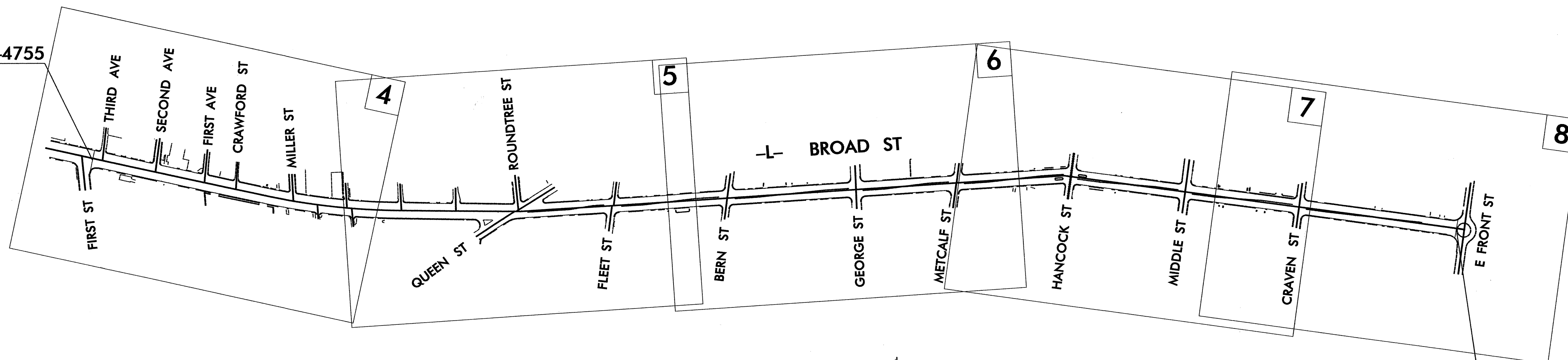
TYPE OF WORK: GRADING, DRAINAGE, PAVING, AND SIGNALS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-4755	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
39833.1.1	STP-070B(6)	P.E.	
39833.3.1	STP-070B(6)	CONST.	



VICINITY MAP

BEGIN TIP PROJECT U-4755
-L- STA 12+07.61



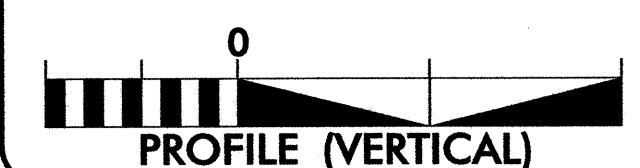
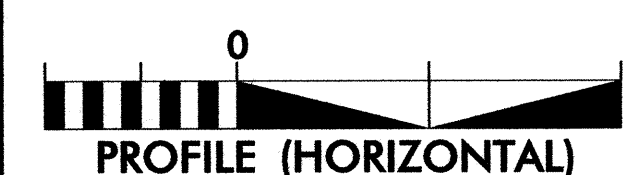
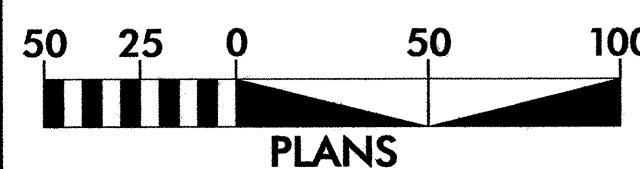
END TIP PROJECT U-4755
-L- STA 70+68.88



TIP PROJECT: U-4755

CONTRACT: C201846

GRAPHIC SCALES



DESIGN DATA

ADT 2006 = 8,075
 ADT 2026 = 9,400
 DHV = 10 %
 D = 50 %
 T = 1 % *
 V = 30 MPH
 * TTST 0 DUAL 1

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT U-4755 = 1.110 MILES
 TOTAL LENGTH TIP PROJECT U-4755 = 1.110 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
 1704 North Greene St., Greenville, NC 27834

2006 STANDARD SPECIFICATIONS

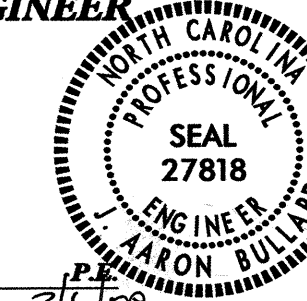
RIGHT OF WAY DATE:
 NA

LETTING DATE:
 JUNE 17, 2008

DWAYNE H. ALLIGOOD, PE
 PROJECT ENGINEER

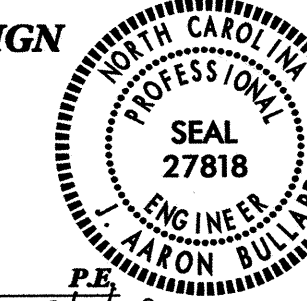
J. AARON BULLARD, PE
 PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER



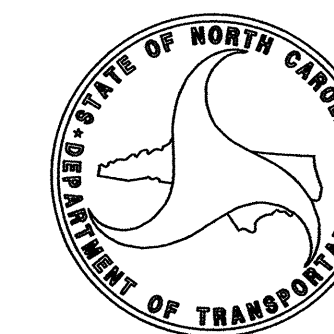
SIGNATURE: *J. Bullard*

ROADWAY DESIGN ENGINEER



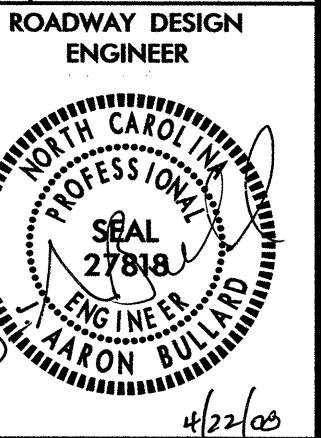
SIGNATURE: *J. Bullard*

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**



STATE HIGHWAY DESIGN ENGINEER

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 jaaronbullard At D2CAD21477



SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2 THRU 2A	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
3	SUMMARY OF QUANTITIES
3-A THRU 3-C	SUMMARY OF DRAINAGE QUANTITIES
3-D	EARTHWORK SUMMARY, REMOVAL OF EXISTING ASPHALT SUMMARY
4 THRU 8	PLAN SHEET
TCP-1 THRU TCP-5	TRAFFIC CONTROL PLANS
PM-1 THRU PM-6	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIG-1 THRU SIG-33	SIGNAL PLANS
X-0 THRU X-13	CROSS-SECTIONS

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

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.

DRIVEWAYS:
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

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

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

UTILITIES:
UTILITY OWNERS ON THIS PROJECT ARE CITY OF NEW BERN (WATER, SEWER, ELECTRIC), PIEDMONT NATURAL GAS, EMBARO, AND SUDDENLINK.
ANY RELOCATION OF EXISTING UTILITIES WILL BE ACCOMPLISHED BY OTHERS.

WHEELCHAIR RAMPS:
WHEELCHAIR RAMPS ARE SHOWN ON THE PLANS AT APPROXIMATE LOCATIONS. THE CONSTRUCTION OF ALL WHEELCHAIR RAMPS SHALL BE IN ACCORDANCE WITH DETAILS IN PLANS.

2006 ROADWAY ENGLISH STANDARD DRAWINGS

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:

STD. NO.	TITLE
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
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
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.15	Brick Drop Inlet - 12" thru 30" Pipe
840.16	Drop Inlet Frame and Grates - for use with Std. Dwg 840.14 and 840.15
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
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
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.71	Concrete and Brick Pipe Plug
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.03	Driveway Turnout - Drop Curb Type
848.04	Street Turnout
848.05	Wheelchair Ramp - Curb Cut
852.01	Concrete Islands

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

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	----- X
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 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	-----
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
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	-----
Designated U/G Water Line (S.U.E.*)	-----
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

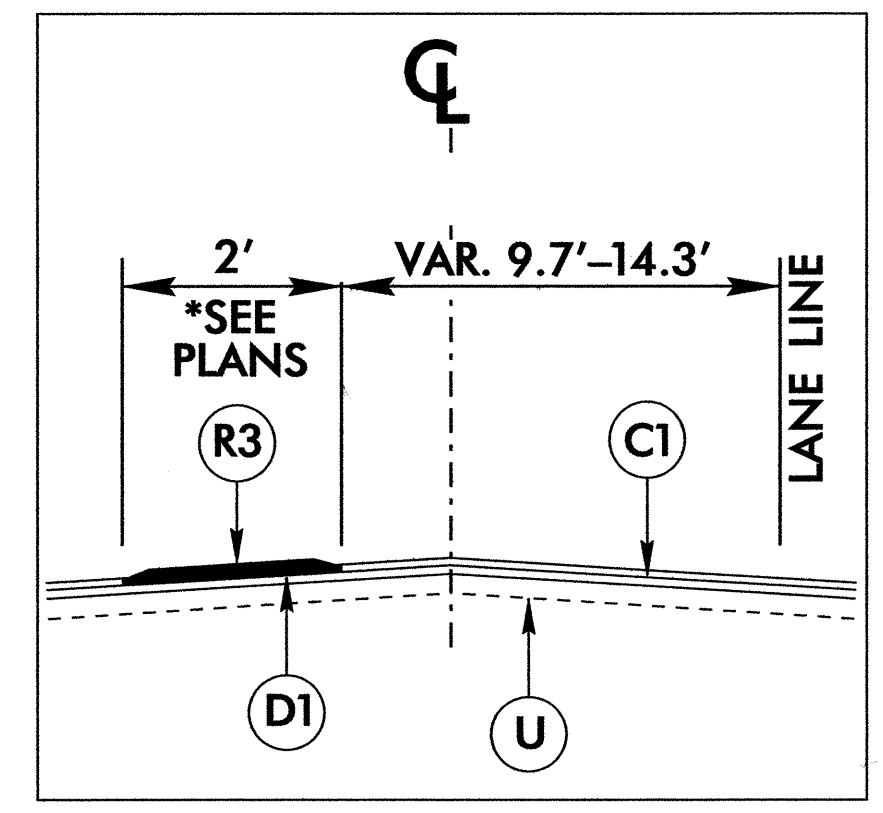
SANITARY SEWER:

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

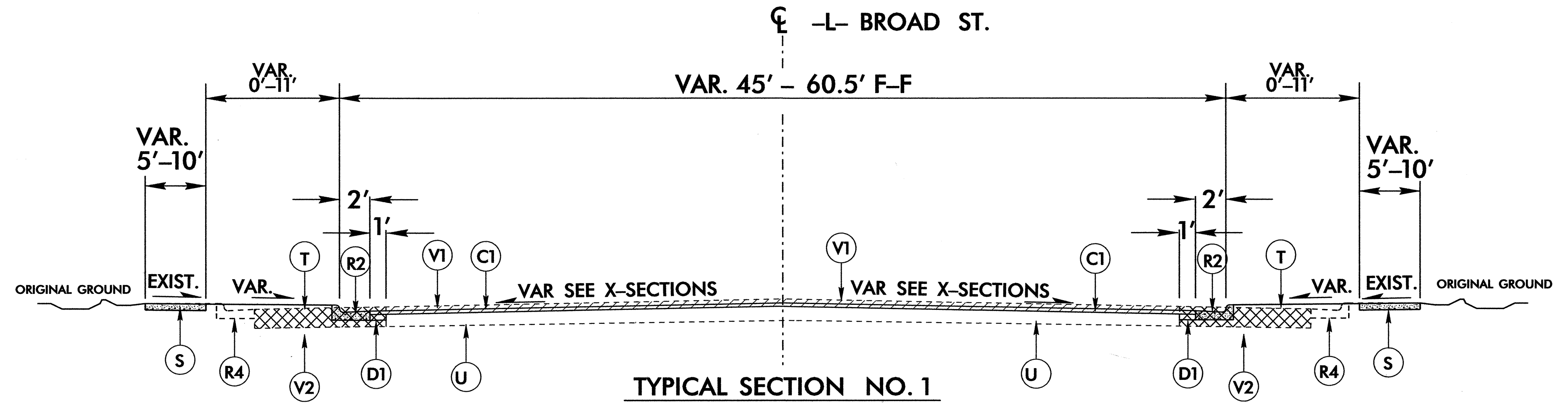
MISCELLANEOUS:

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.

PAVEMENT SCHEDULE			
C1	PROP. APPROX. 1 1/2" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.	S	4" CONCRETE SIDEWALK.
D1	PROP. APPROX. 4 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 504 LBS. PER SQ. YD.	T	EARTH MATERIAL.
R1	1'-6" CONCRETE CURB AND GUTTER.	U	EXISTING PAVEMENT.
R2	2'-6" CONCRETE CURB AND GUTTER.	V1	PROP. APPROX. 0" TO 6" MILLING ASPHALT PAVEMENT, RESULTING IN MILLED SURFACE BEING 1 1/2" BELOW FINAL GRADE
R3	5" CONCRETE MONOLITHIC ISLAND (KEYED-IN)	V2	REMOVAL OF EXISTING ASPHALT PAVEMENT
R4	EXISTING 2'-6" CONCRETE CURB AND GUTTER		

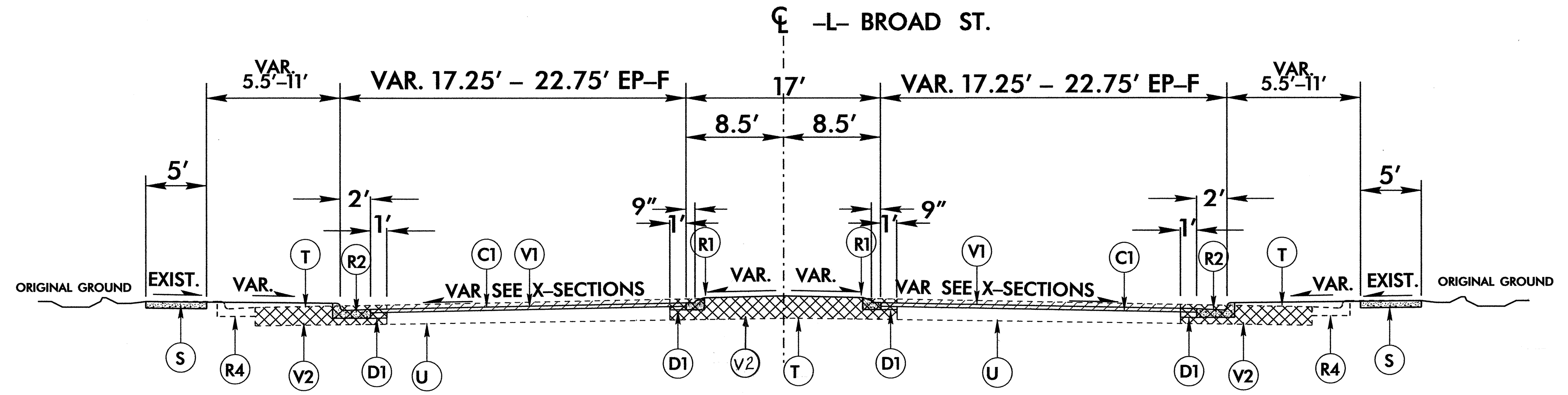


- USE WITH TYPICAL SECTION NO. 1
ISLAND DETAIL REVERSE FOR WESTBOUND TURN LANE
- L- STA. 12+80.86 TO 14+33.22
 - L- STA. 17+08.63 TO 17+87.13
 - L- STA. 19+50.58 TO 20+29.14
 - L- STA. 21+13.98 TO 21+92.14
 - L- STA. 28+72.01 TO 29+50.51
 - L- STA. 30+03.41 TO 31+61.91
 - L- STA. 33+30.61 TO 34+09.11
 - L- STA. 34+81.60 TO 35+60.10
 - L- STA. 38+20.90 TO 38+99.40
 - L- STA. 39+71.55 TO 40+50.05
 - L- STA. 43+56.51 TO 44+35.01
 - L- STA. 45+36.58 TO 46+15.08
 - L- STA. 47+79.92 TO 48+58.42
 - L- STA. 49+71.30 TO 50+49.80
 - L- STA. 52+91.51 TO 53+70.01
 - L- STA. 54+50.90 TO 55+29.40
 - L- STA. 57+70.94 TO 58+49.44
 - L- STA. 59+46.75 TO 60+25.25
 - L- STA. 62+63.23 TO 63+41.73
 - L- STA. 64+35.12 TO 65+13.62



TYPICAL SECTION NO. 1

- L- STA. 12+07.61 TO 15+19.10
- L- STA. 17+08.63 TO 18+62.11
- L- STA. 19+50.58 TO 21+92.14
- L- STA. 28+72.01 TO 31+61.91
- L- STA. 33+30.61 TO 35+60.10
- L- STA. 38+20.90 TO 40+50.05
- L- STA. 43+56.51 TO 46+15.08
- L- STA. 47+79.92 TO 50+49.80
- L- STA. 52+91.51 TO 55+29.40
- L- STA. 57+70.94 TO 60+25.25
- L- STA. 62+63.23 TO 65+13.62
- L- STA. 70+21.25 TO 70+68.88



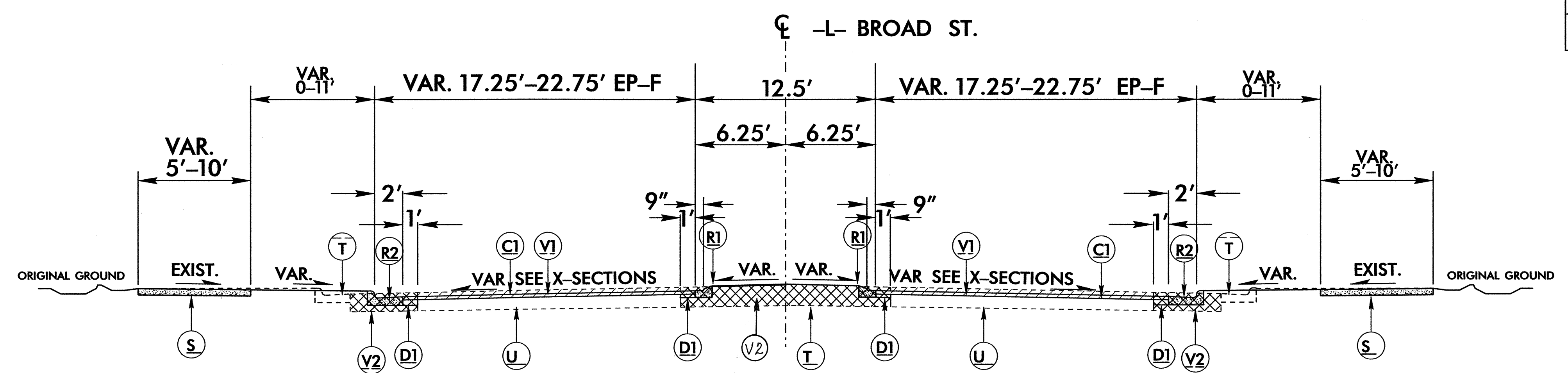
TYPICAL SECTION NO. 2

- L- STA. 15+19.16 TO 17+08.63
- L- STA. 18+62.11 TO 19+50.58
- L- STA. 21+92.14 TO 28+72.01

8/17/99

PROJECT REFERENCE NO. U-4755	SHEET NO. 2-A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

C1	1 1/2" S9.5B
D1	4 1/2" I19.0B
R1	1'-6" CONC. CURB & GUTTER
R2	2'-6" CONC. CURB & GUTTER
R3	5" CONC. MONOLITHIC ISLAND (KEYED-IN)
S	CONC. SIDEWALK
T	EARTH MATERIAL
U	EXISTING PAVEMENT
V1	0" TO 6" EXISTING PAVEMENT MILLING
V2	EXISTING PAVEMENT REMOVAL



TYPICAL SECTION NO. 3

- L- STA. 31+61.91 TO 33+30.61
- L- STA. 35+60.10 TO 38+20.90
- L- STA. 40+50.05 TO 43+56.51
- L- STA. 46+15.08 TO 47+79.92
- L- STA. 50+49.80 TO 52+91.51
- L- STA. 55+29.40 TO 57+70.94
- L- STA. 60+25.25 TO 62+63.23
- L- STA. 65+13.62 TO 70+21.25

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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 - C201846														
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	2396000000-N	840	2	EA	FRAME WITH COVER, STD 840.54	7144000000-E	1705	3	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
0000400000-N	801	Lump Sum		CONSTRUCTION SURVEYING	2535000000-E	846	690	LF	***X*** CONCRETE CURB (8" X 12")	7204000000-N	SP	8	EA	LOUVER
0043000000-N	226	Lump Sum		GRADING	2542000000-E	846	6,200	LF	1'-6" CONCRETE CURB & GUTTER	7288000000-E	1715	160	LF	PAVED TRENCHING (*****) (1, 2")
0318000000-E	300	30	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	2549000000-E	846	9,220	LF	2'-6" CONCRETE CURB & GUTTER	7300000000-E	1715	300	LF	UNPAVED TRENCHING (*****) (1, 2")
0366000000-E	310	824	LF	15" RC PIPE CULVERTS, CLASS III	2591000000-E	848	7,650	SY	4" CONCRETE SIDEWALK	7301000000-E	1715	985	LF	DIRECTIONAL DRILL (*****) (2, 2")
0372000000-E	310	60	LF	18" RC PIPE CULVERTS, CLASS III	2605000000-N	848	90	EA	CONCRETE WHEELCHAIR RAMPS	7324000000-N	1716	26	EA	JUNCTION BOX (STANDARD SIZE)
0384000000-E	310	456	LF	30" RC PIPE CULVERTS, CLASS III	2612000000-E	848	900	SY	6" CONCRETE DRIVEWAY	7444000000-E	1725	1,060	LF	INDUCTIVE LOOP SAWCUT
0528000000-E	310	1	EA	*** RC PIPE ELBOWS, CLASS III (30")	2655000000-E	852	530	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	7456000000-E	1726	930	LF	LEAD-IN CABLE (*****) (14-2)
0995000000-E	340	577	LF	PIPE REMOVAL	2800000000-N	858	2	EA	ADJUSTMENT OF CATCH BASINS	7588000000-N	SP	10	EA	METAL POLE WITH SINGLE MAST ARM
1220000000-E	545	500	TON	INCIDENTAL STONE BASE	2815000000-N	858	1	EA	ADJUSTMENT OF DROP INLETS	7590000000-N	SP	6	EA	METAL POLE WITH DUAL MAST ARM
1308000000-E	607	28,850	SY	MILLING ASPHALT PAVEMENT, **** TO ***** DEPTH (0" TO 6")	2830000000-N	858	95	EA	ADJUSTMENT OF MANHOLES	7613000000-N	SP	16	EA	SOIL TEST
1498000000-E	610	500	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B	2845000000-N	858	49	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	7614100000-E	SP	108	CY	DRILLED PIER FOUNDATION
1519000000-E	610	2,610	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	4400000000-E	1110	744	SP	WORK ZONE SIGNS (STATIONARY)	7624000000-N	1743	2	EA	SIGNAL PEDESTAL WITH FOUNDATION
1560000000-E	620	181	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	4430000000-N	1130	175	EA	DRUMS	7631000000-N	SP	16	EA	MAST ARM WITH METAL POLE DESIGN
2253000000-E	840	0.4	CY	PIPE COLLARS	4810000000-E	1205	26,755	LF	PAINT PAVEMENT MARKING LINES (4")	7636000000-N	1745	9	EA	SIGN FOR SIGNALS
2264000000-E	840	0.4	CY	PIPE PLUGS	4820000000-E	1205	5,406	LF	PAINT PAVEMENT MARKING LINES (8")	7675000000-N	SP	2	EA	LED BLANKOUT SIGN
2286000000-N	840	79	EA	MASONRY DRAINAGE STRUCTURES	4835000000-E	1205	626	LF	PAINT PAVEMENT MARKING LINES (24")	7980000000-N	SP	4	EA	GENERIC SIGNAL ITEM RELOCATE EXISTING CONTROLLERS WITH CABINETS
2308000000-E	840	9	LF	MASONRY DRAINAGE STRUCTURES	4845000000-N	1205	46	EA	PAINT PAVEMENT MARKING SYMBOL					
2352000000-N	840	1	EA	FRAME WITH GRATE, STD 840.**** (840.16)	6012000000-E	1610	200	TON	SEDIMENT CONTROL STONE					
2374000000-N	840	10	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	6042000000-E	1632	2,240	LF	1/4" HARDWARE CLOTH					
2374000000-N	840	23	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	6084000000-E	1660	0.7	ACR	SEEDING & MULCHING					
2374000000-N	840	29	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	7060000000-E	1705	4,550	LF	SIGNAL CABLE					
					7096000000-E	1705	36	EA	VEHICLE SIGNAL HEAD (8", 3 SECTION)					
					7120000000-E	1705	11	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)					
					7132000000-E	1705	2	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)					

5/28/99

COMPUTED BY: MRJ DATE: 3/6/2008
CHECKED BY: JAB DATE: 3/6/2008

PROJECT NO. U-4755 SHEET NO. 3-A

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

Table with columns for Station, Structure No., Pipe Type, Invert Elevation, Percent Grade, Class III R.C. Pipe, Bituminous Coated C.S. Pipe Type B, Endwalls, Quantities for Drainage Structures, Frame, Grates, and Hood Standard, Type of Grate, and Remarks. Includes a SHEET TOTALS row at the bottom.

D2CAD228384

COMPUTED BY: MRJ DATE: 3/6/2008
CHECKED BY: JAB DATE: 3/6/2008

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

PROJECT NO. U-4755 SHEET NO. 3-B

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

Table with columns for Station, Structure No., Pipe Type, Pipe Size, Invert Elevation, Percent Grade, and various material/quantity columns. Includes a summary row at the bottom labeled 'SHEET TOTALS'.

D2CAD228384

COMPUTED BY: MRJ DATE: 3/28/08
 CHECKED BY: JAB DATE: 3/28/08

PROJECT NO. U-4755 SHEET NO. 3-D

D:\CAD\21477

**STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS**

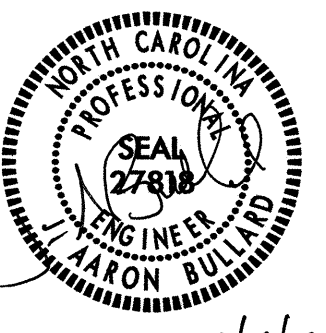
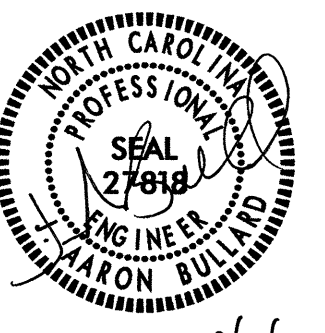
**SUMMARY OF EXISTING ASPHALT
 PAVEMENT REMOVAL**

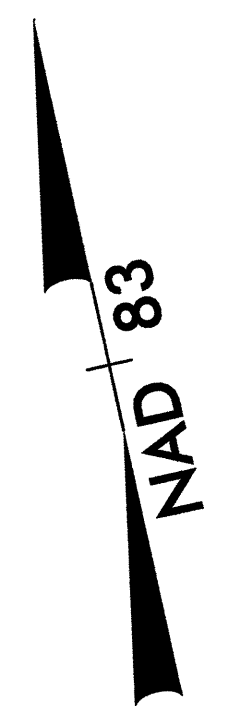
SUMMARY OF EARTHWORK

Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
	-L-				
12+50	70+00	981	4222	3241	
SUBTOTALS:		981	4222	3241	
PROJECT TOTALS:		981	4222	3241	
SAY:		1000		3250	

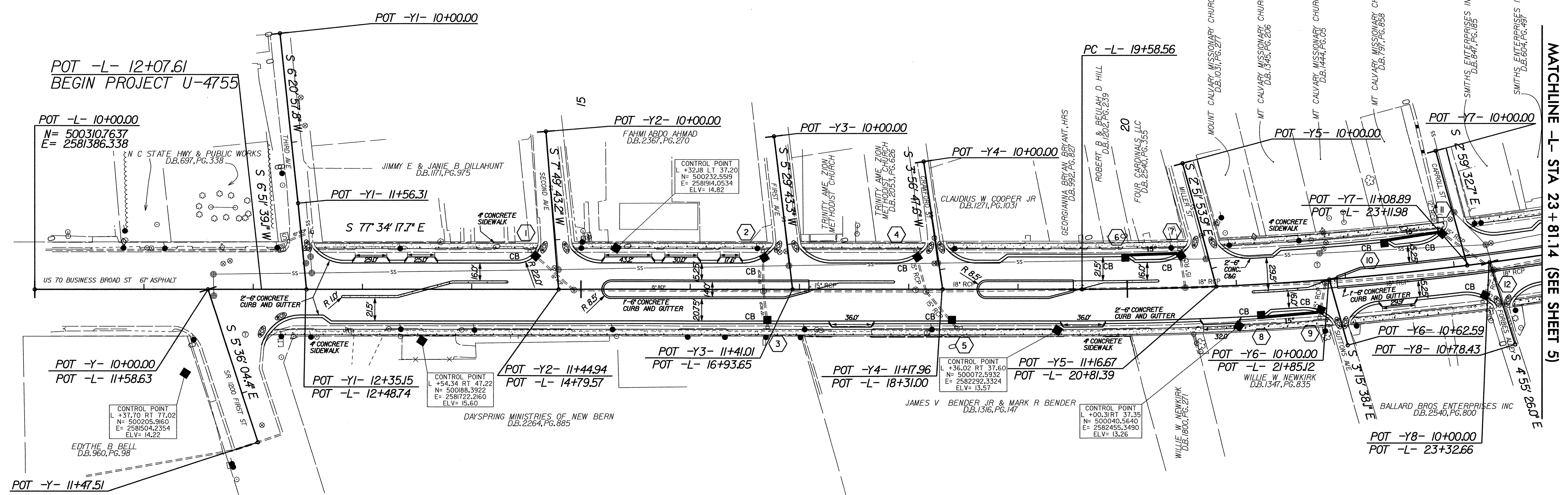
LINE	STATION	STATION	LOCATION	AREA (SF)	SQUARE YARDS
L	12+53.94	14+65.05	Lt	2049.89	227.77
L	14+89.94	16+77.69	Lt	1787.10	198.57
L	16+99.18	18+16.85	Lt	1011.20	112.36
L	18+32.67	20+59.18	Lt	1469.53	163.28
L	20+83.68	22+97.74	Lt	1513.53	168.17
L	23+12.99	25+30.95	Lt	1714.35	190.48
L	34+71.70	39+33.00	Lt	2276.82	252.98
L	39+59.58	44+69.47	Lt	3676.90	408.54
L	45+07.03	49+12.51	Lt	2119.43	235.49
L	49+40.23	53+91.26	Lt	3438.23	382.03
L	54+30.43	58+78.01	Lt	1505.22	167.25
L	59+14.44	63+73.74	Lt	2608.73	289.86
L	64+01.53	70+70.15	Lt	3472.37	385.82
L	15+17.16	17+08.63	CL	3512.66	390.30
L	18+60.40	19+50.58	CL	1587.89	176.43
L	21+92.14	28+72.01	CL	12781.96	1420.22
L	31+61.91	33+30.61	CL	2355.87	261.76
L	35+60.10	38+20.90	CL	3691.40	410.16
L	40+50.05	43+56.51	CL	4353.39	483.71
L	46+15.08	47+79.92	CL	2262.49	251.39
L	50+49.80	52+91.51	CL	3412.82	379.20
L	55+29.40	57+70.94	CL	3428.94	380.99
L	60+25.25	62+63.23	CL	3360.47	373.39
L	65+13.62	70+23.25	CL	7307.14	811.90
L	12+05.67	21+87.14	Rt	5738.03	637.56
L	21+99.32	23+33.97	Rt	1204.04	133.78
L	23+46.57	28+80.93	Rt	3205.19	356.13
L	29+94.57	34+17.40	Rt	2122.19	235.80
L	34+50.89	39+11.11	Rt	2643.10	293.68
L	39+42.43	44+66.22	Rt	1956.72	217.41
L	45+04.49	48+91.05	Rt	1839.19	204.35
L	49+22.13	52+94.33	Rt	1620.10	180.01
L	54+23.69	58+77.82	Rt	1895.62	210.62
L	59+18.03	63+68.70	Rt	952.55	105.84
L	64+00.67	70+69.92	Rt	3419.37	379.93
				TOTAL	11,477.16
				SAY	11,950

*** APPROXIMATE QUANTITIES ONLY. UNCLASSIFIES EXCAVATION, BORROW EXCAVATION, FINE GRADING, CLEARING AND GRUBBING, REMOVAL OF EXISTING PAVEMENT AND BREAKING OF PAVEMENT WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING" ***

PROJECT REFERENCE NO. U-4755		SHEET NO. 4
RW SHEET NO.		
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER	
		
3/28/08	3/28/08	



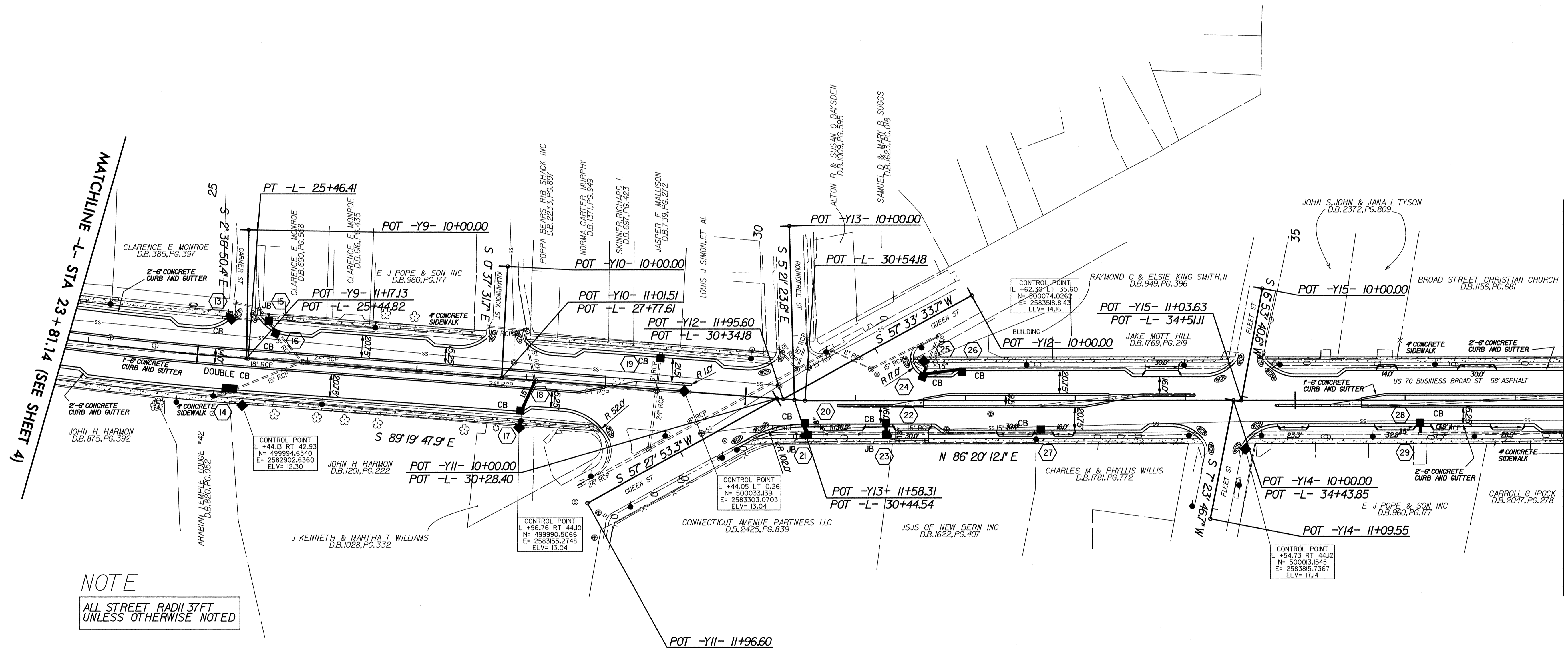
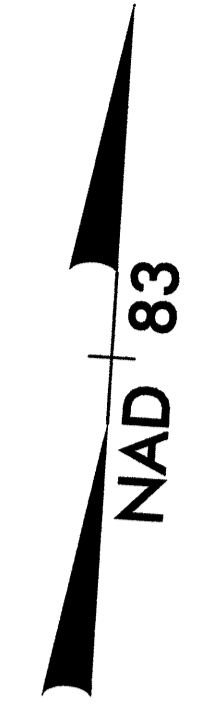
PI Sta 22+53.53
 $\Delta = 1' 45' 30.2''$ (LT)
 $D = 2' 00' 00.8''$
 $L = 587.86'$
 $T = 294.98'$
 $R = 2,864.62'$



NOTE
 ALL STREET RADII 37FT
 UNLESS OTHERWISE NOTED

DATUM DESCRIPTION
 THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "E 146" WITH NAD 1983/86 STATE PLANE GRID COORDINATES OF NORTHING: 498937.6918(11) EASTING: 258575.2685(11) THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "NCGS E 146" TO -L- STATION 10+00.00 IS N 71° 50' 43" W 4408.395' ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NGVD 29

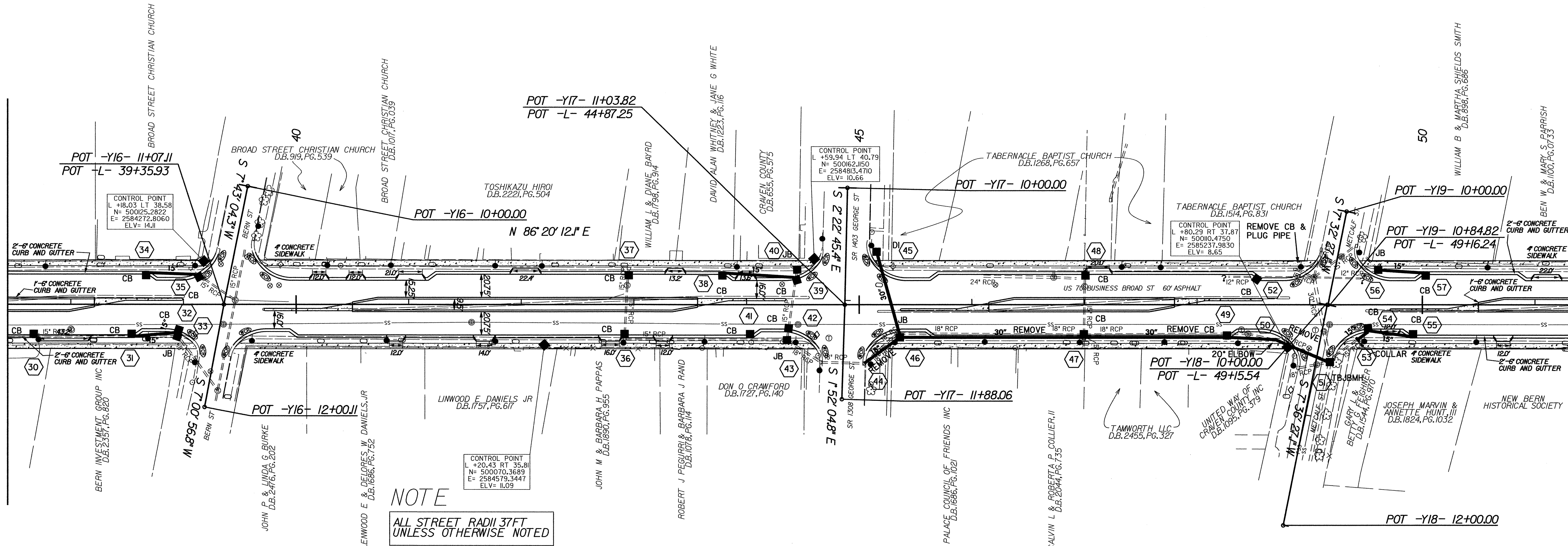
PROJECT REFERENCE NO.		SHEET NO.	
U-4755		5	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	



NOTE
ALL STREET RADII 37FT
UNLESS OTHERWISE NOTED

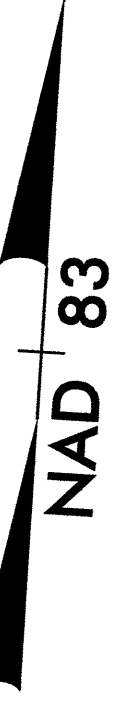
PROJECT REFERENCE NO.		SHEET NO.	
U-4755		6	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

MATCHLINE -L- STA 34+43.84 (SEE SHEET 5)

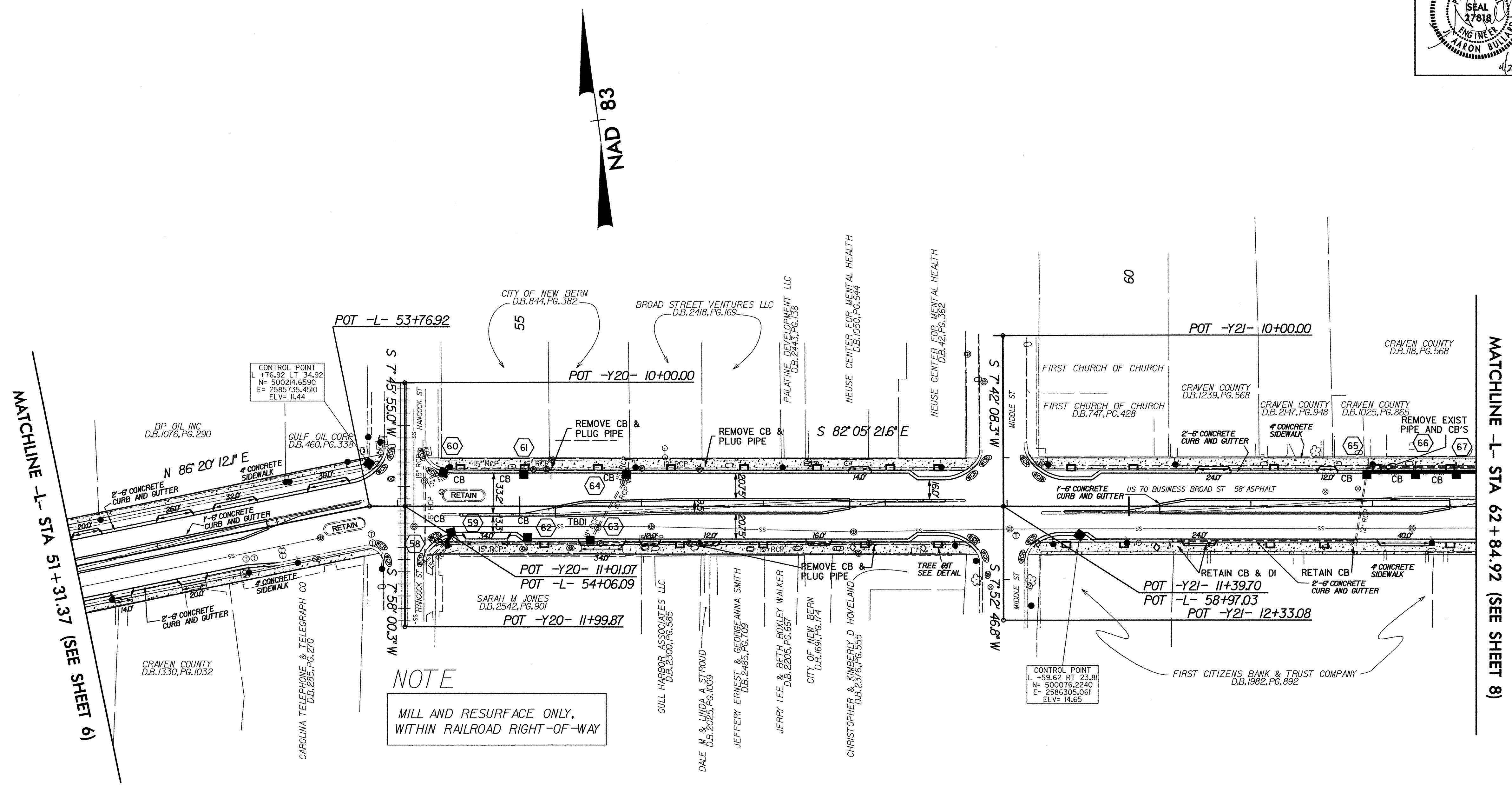


MATCHLINE -L- STA 51+31.37 (SEE SHEET 7)

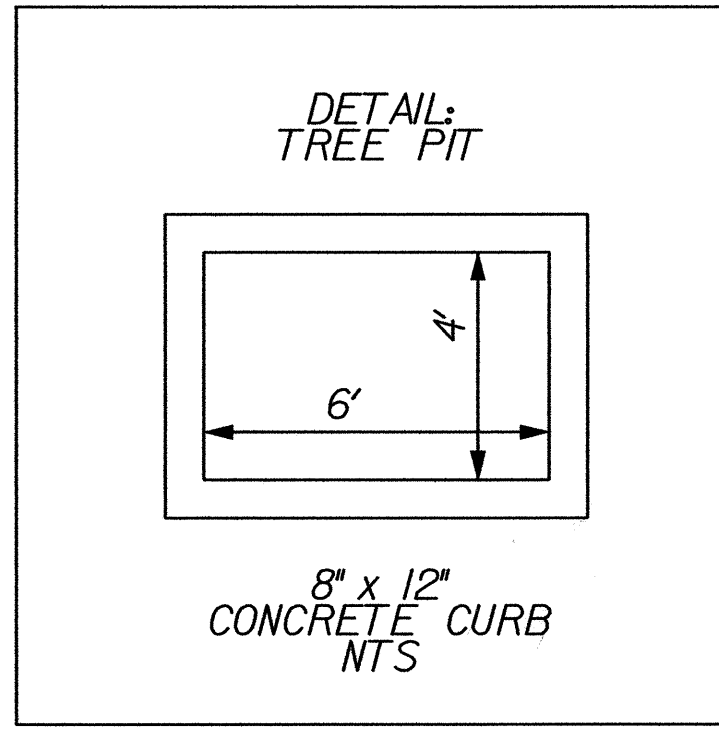
NOTE
ALL STREET RADII 37FT
UNLESS OTHERWISE NOTED



PROJECT REFERENCE NO. U-4755	SHEET NO. 7
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

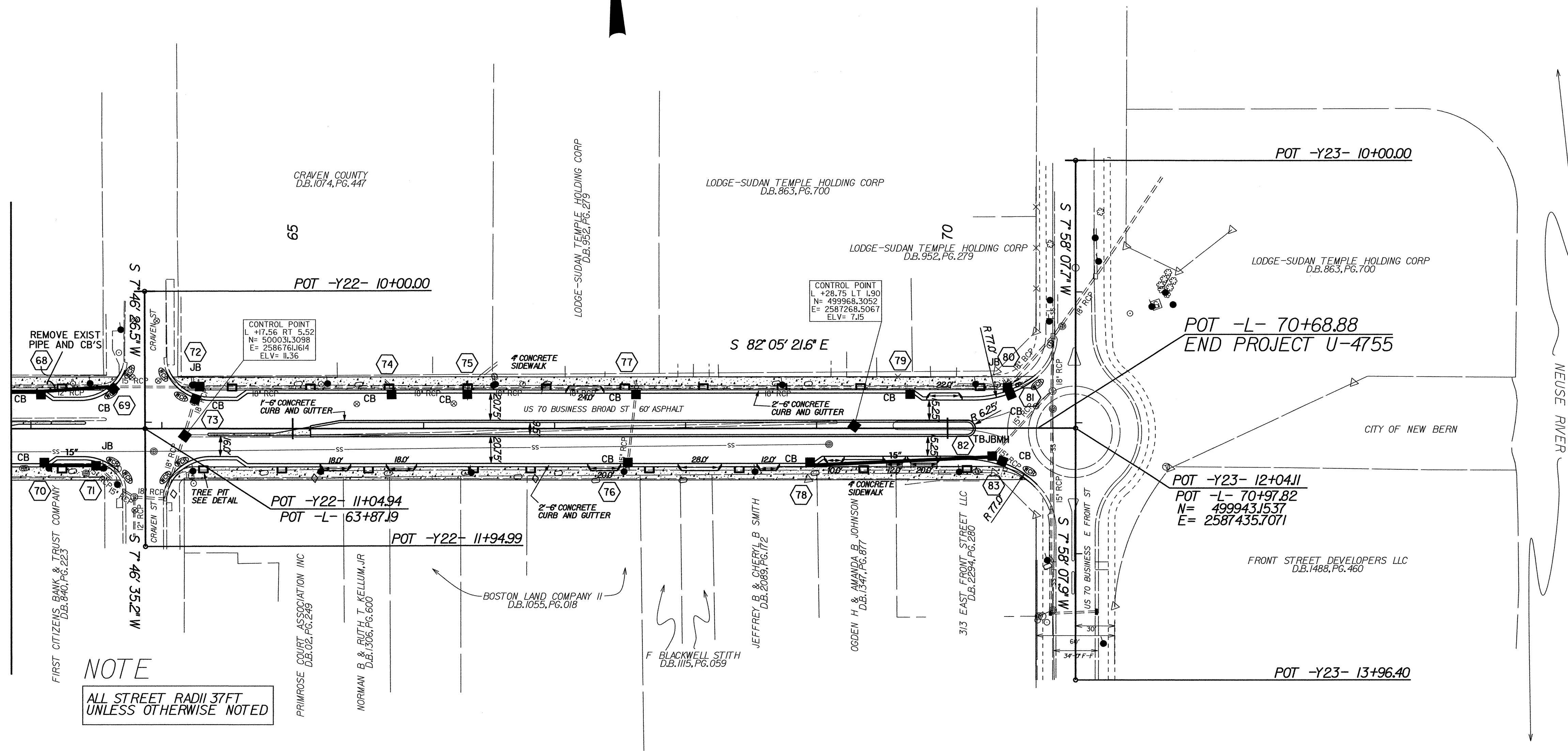
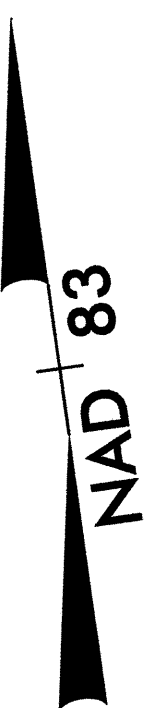


NOTE
MILL AND RESURFACE ONLY,
WITHIN RAILROAD RIGHT-OF-WAY



PROJECT REFERENCE NO. U-4755	SHEET NO. 8
RW SHEET NO.	
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER

MATCHLINE -L- STA 62 + 84.92 (SEE SHEET 7)



NOTE
ALL STREET RADII 37FT
UNLESS OTHERWISE NOTED

