

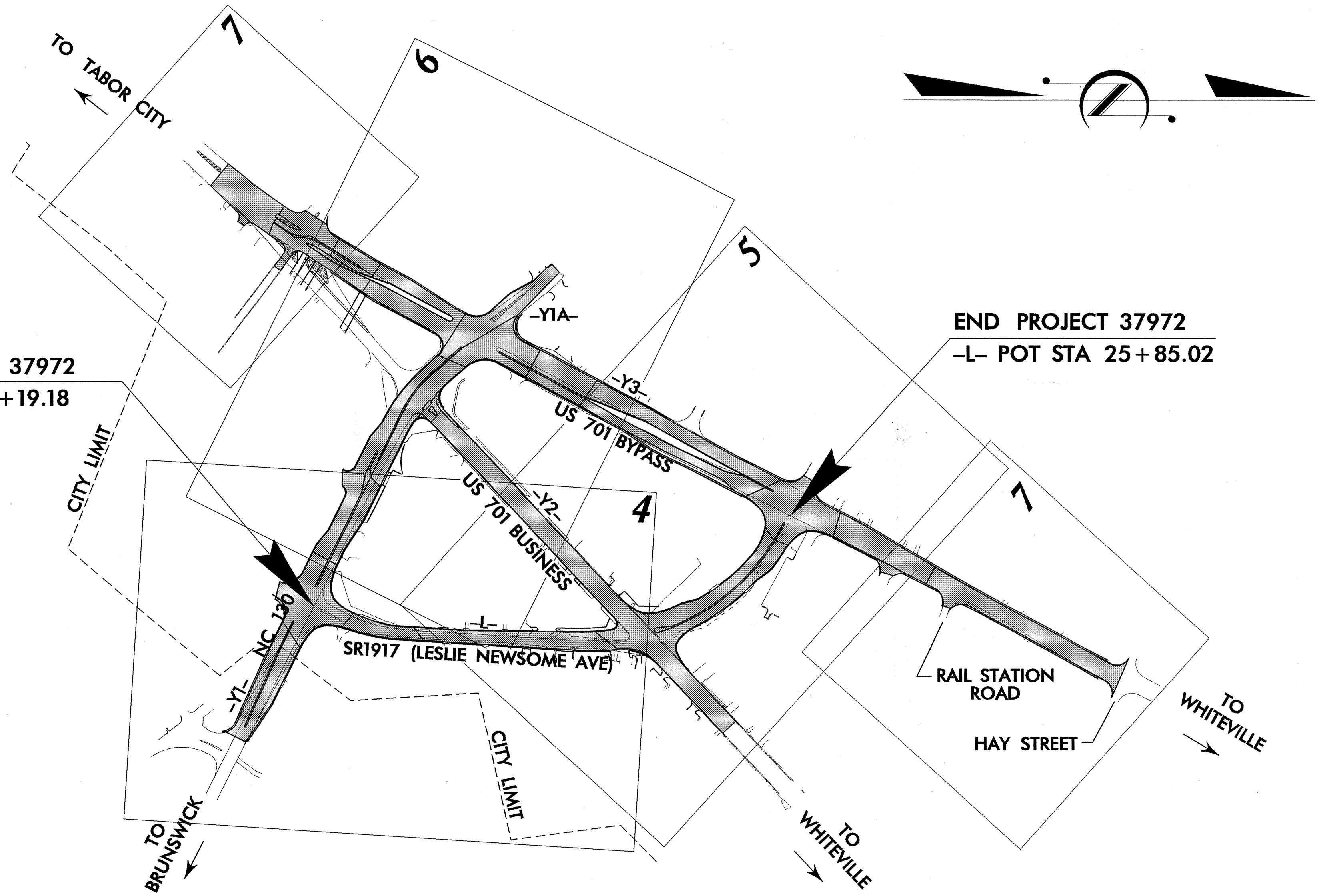
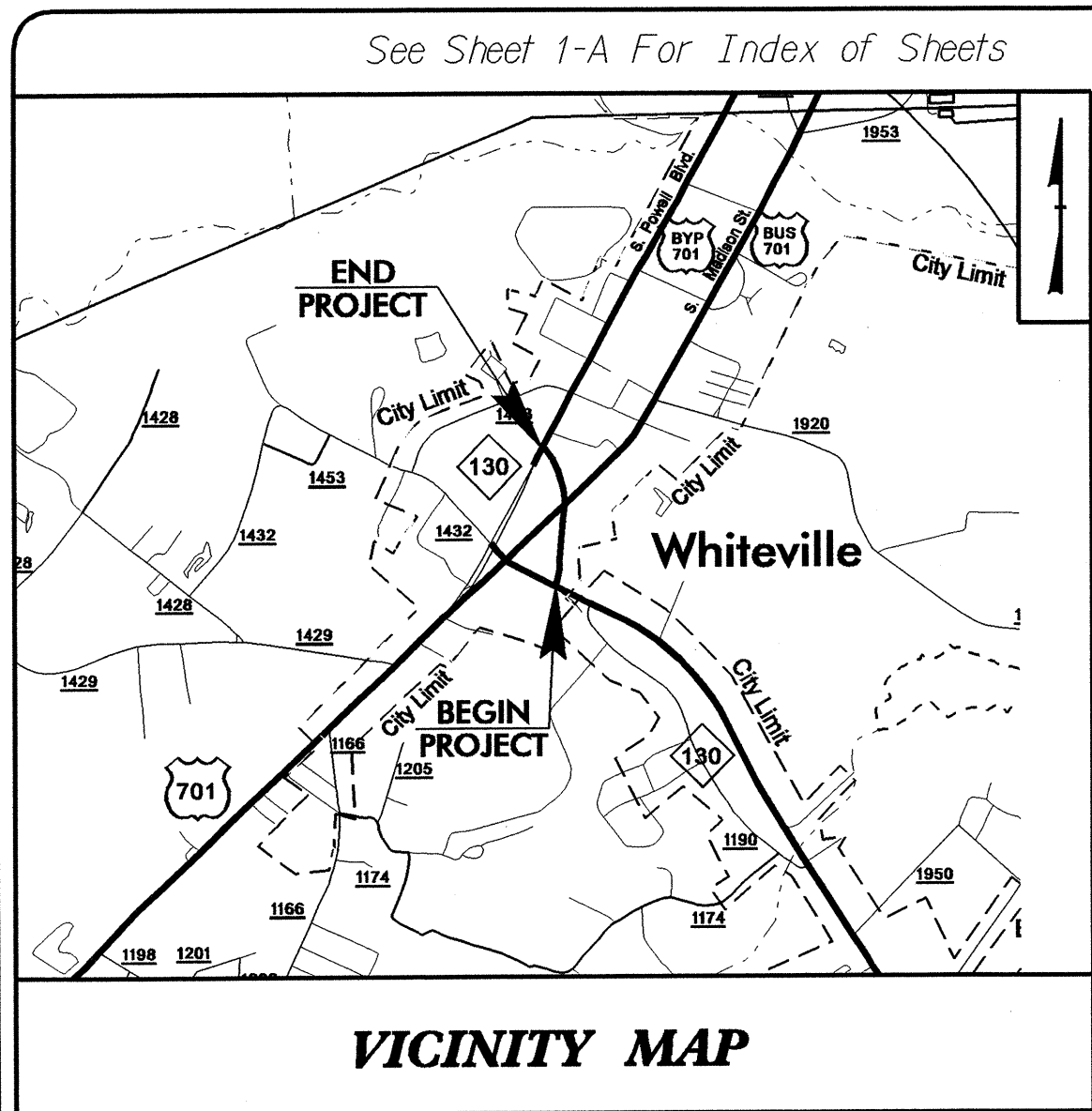
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	37972	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
37972		PE, RW, UTIL, & CONST	

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

COLUMBUS COUNTY

LOCATION: SR 1917 FROM NC HIGHWAY 130 TO US 701 BYPASS, NC 130 FROM JUST EAST OF SR 1917 TO US 701 BYPASS, AND US 701 BYPASS FROM SOUTH OF NC 130 TO JUST NORTH OF SR 1917 EXTENSION.

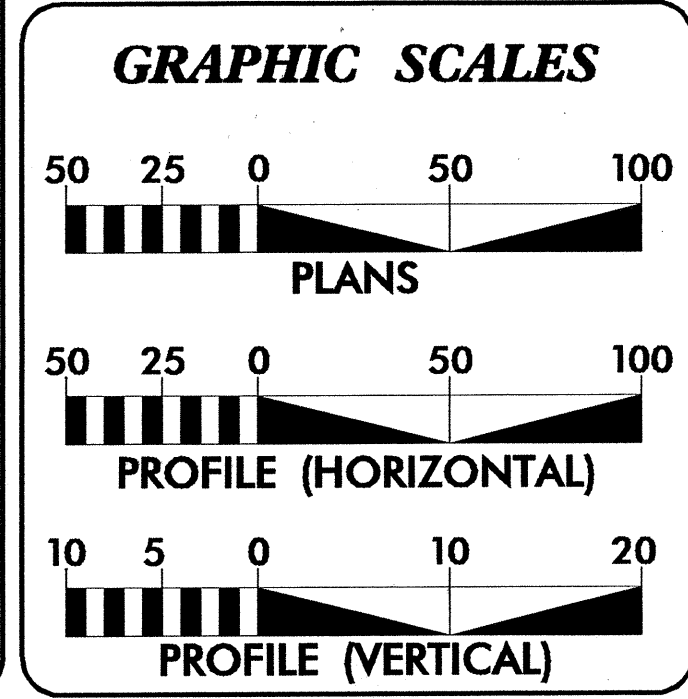
TYPE OF WORK: GRADING, PAVING, RESURFACING, DRAINAGE, WIDENING, AND SIGNALS



NCDOT CONTACT: G. SCOTT PRIDGEN
DIVISION 6 DDC

CONTRACT: MA PROJECT: 37972

CONTRACT:



DESIGN DATA

ADT 2006 =	4,500
ADT 2030 =	11,600
DHV =	60 %
D =	11 %
T =	5 % *
V =	40 MPH
* TTST	2% DUAL 3%

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT 37972 =	0.297 MILES
TOTAL LENGTH TIP PROJECT 37972 =	0.297 MILES

PLANS PREPARED BY:

PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
PHONE: (919) 876-6888

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:
March 2006

LETTING DATE:
November 18, 2008

David W. Bass, P.E.
PROJECT ENGINEER

Calista Hall, P.E.
PROJECT DESIGN ENGINEER

HYDRAULIC ENGINEER

SEAL 29185

9/15/08 P.E.

ROADWAY DESIGN ENGINEER

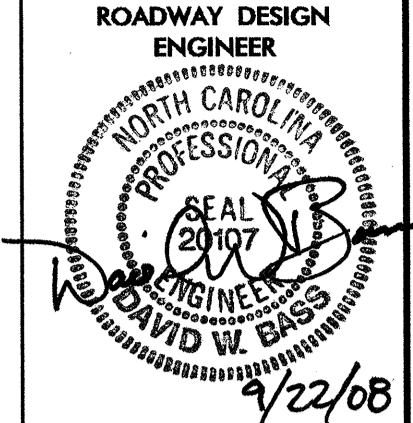
SEAL 20107

9/4/08 P.E.

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

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8/17/99

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2 THRU 2-B	PAVEMENT SCHEDULE AND TYPICAL SECTIONS
2-C THRU 2-F	INTERSECTION AND ISLAND DETAIL
2-G	DETAIL FOR ANCHORAGE FOR FRAMES
2-H	DETAIL FOR CONVERT EXIST. DROP INLET TO MANHOLE
3	SUMMARY OF QUANTITIES
3-A THRU 3-C	SUMMARY OF DRAINAGE QUANTITIES
3-D	SUMMARY OF EARTHWORK AND ASPHALT PAVEMENT REMOVAL SUMMARY
3-E	PARCEL INDEX SHEET
4 THRU 7	PLAN SHEET
8 THRU 11	PROFILE SHEET
TCP-1 THRU TCP-10	TRAFFIC CONTROL PLANS
SIG-1 THRU SIG-14	SIGNAL PLANS
PM-1 THRU PM-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-11	EROSION CONTROL PLANS
UC-1 THRU UC-5	UTILITIES CONSTRUCTION PLANS
UO-1 THRU UO-4	UTILITIES BY OTHERS PLANS
X-0 THRU X-00	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-37	CROSS-SECTIONS

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 2 - EARTHWORK	
200.02	Method of Clearing - Method II
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
225.05	Method of Obtaining Superelevation - Divided Highways
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 8 - INCIDENTALS	
838.05	Concrete "L" Endwall for Single Pipe Culverts - 15" thru 48" Pipe
838.11	Brick Endwall for Single and Double Pipe Culverts - 15" thru 48" Pipe 90 Skew
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
840.36	Traffic Bearing Grated Drop Inlet - for Steel (840.37) Double Frame and Grates
840.37	Steel Grate and Frame
840.45	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
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
852.01	Concrete Islands
852.05	Median Curb for Catch Basin - for Use with 1'-6" Curb and Gutter
852.06	Method for Placement of Drop Inlets in Concrete Islands

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

GENERAL NOTES:

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

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.

CLEARING:

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

SUPERELEVATION:

ALL CURVES ON THIS PROJECT SHALL BE SUPERELEVATED IN ACCORDANCE WITH STD. NO. 225.04 USING THE RATE OF SUPERELEVATION AND RUNOFF SHOWN ON THE PLANS. SUPERELEVATION IS TO BE REVOLVED ABOUT THE GRADE POINTS SHOWN ON THE TYPICAL SECTIONS.

SHOULDER CONSTRUCTION:

ASPHALT, EARTH, AND CONCRETE SHOULDER CONSTRUCTION ON THE HIGH SIDE OF SUPERELEVATED CURVES SHALL BE IN ACCORDANCE WITH STD. NO. 560.01.

SIDE ROADS:

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

DRIVEWAYS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.02 USING 3' RADII OR RADII AS SHOWN ON THE PLANS. LOCATIONS OF DRIVES WILL BE AS SHOWN ON THE 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 PROGRESS ENERGY, EMBARO, & TIME WARNER CABLE.

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3/15/06

Note: Not to Scale

***S.U.E. = Subsurface Utility Engineering**

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	○ EIP
Property Corner	✕
Property Monument	□ EDM
Parcel/Sequence Number	⑫③
Existing Fence Line	✕-✕-✕-✕
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	○ S
Storm Sewer	----- S

UTILITIES:

POWER:	
Existing Power Pole	●
Proposed Power Pole	○
Existing Joint Use Pole	●
Proposed Joint Use Pole	○
Power Manhole	○ P
Power Line Tower	⊗
Power Transformer	⊠
U/G Power Cable Hand Hole	□ PH
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	○ T
Telephone Booth	□
Telephone Pedestal	□
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	□ PH
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	○ W
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	□ PH
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:

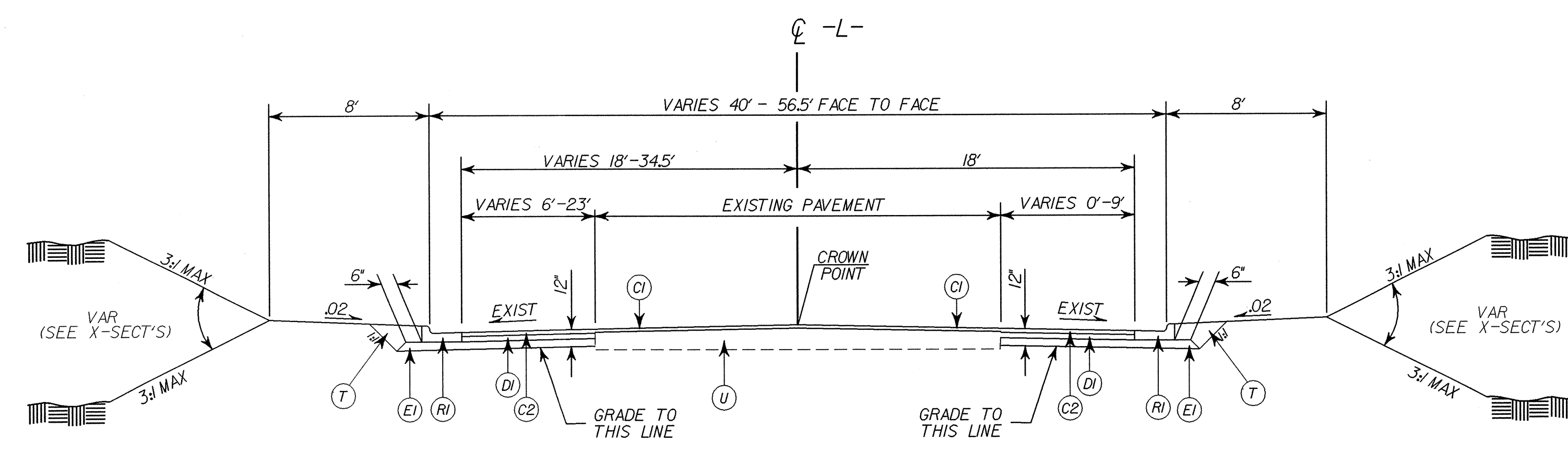
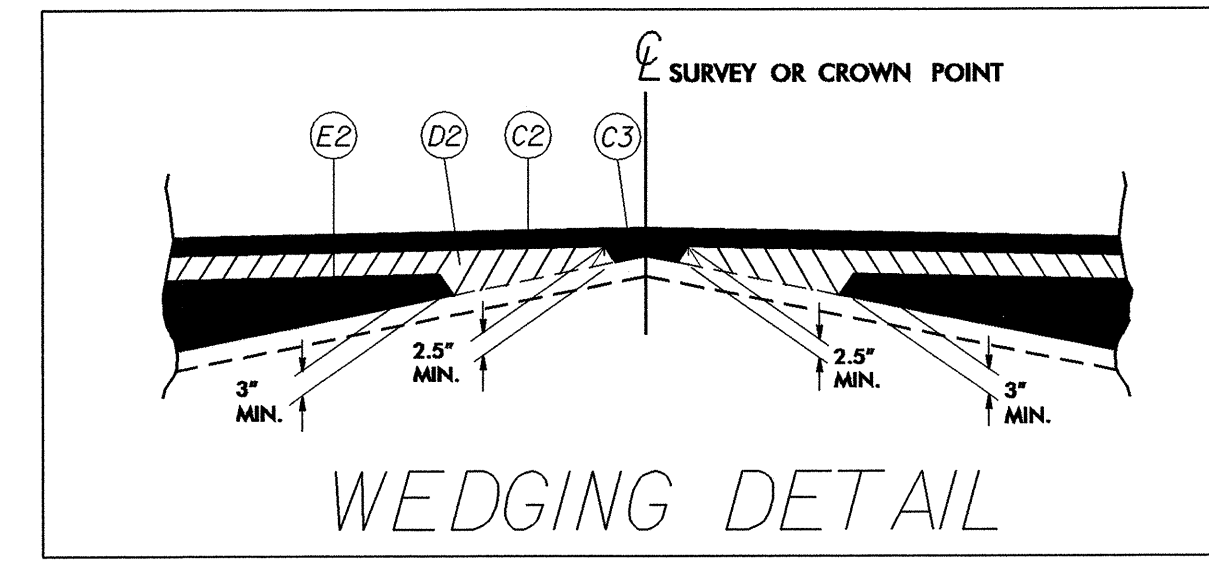
Gas Valve	◇
Gas Meter	⊕
Recorded U/G Gas Line	----- G
Designated U/G Gas Line (S.U.E.*)	----- G
Above Ground Gas Line	----- A/G Gas

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

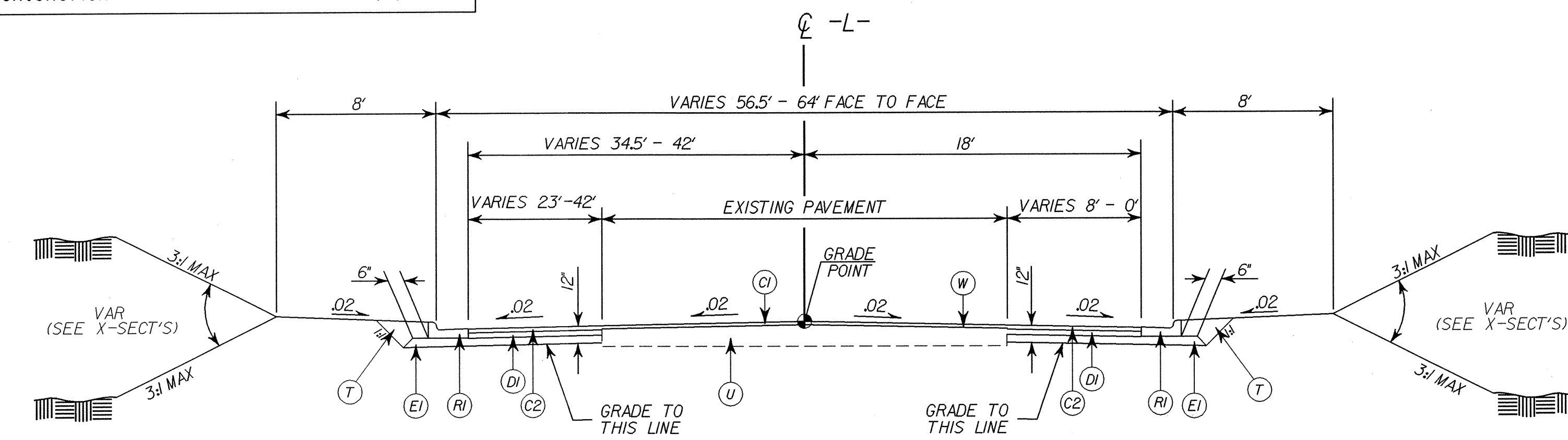
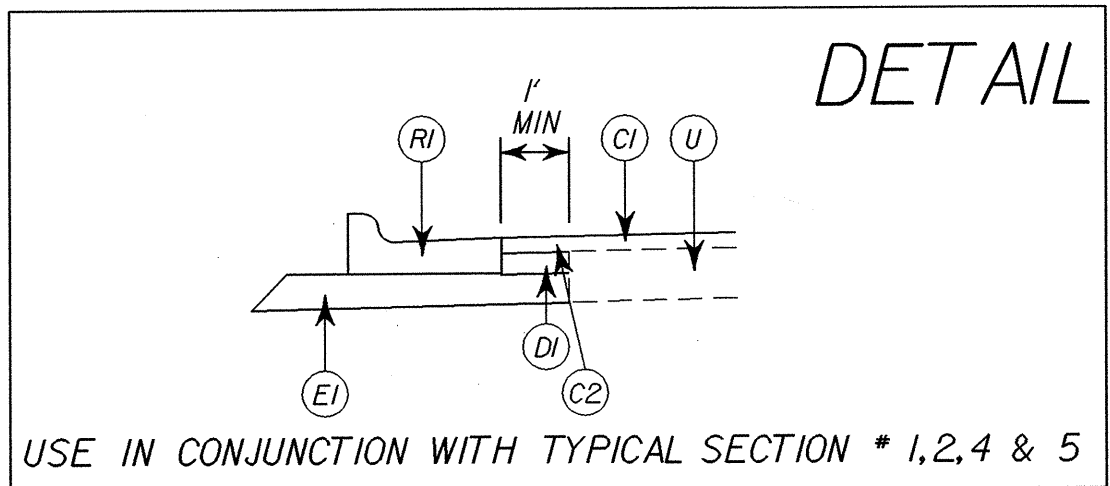
MISCELLANEOUS:

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



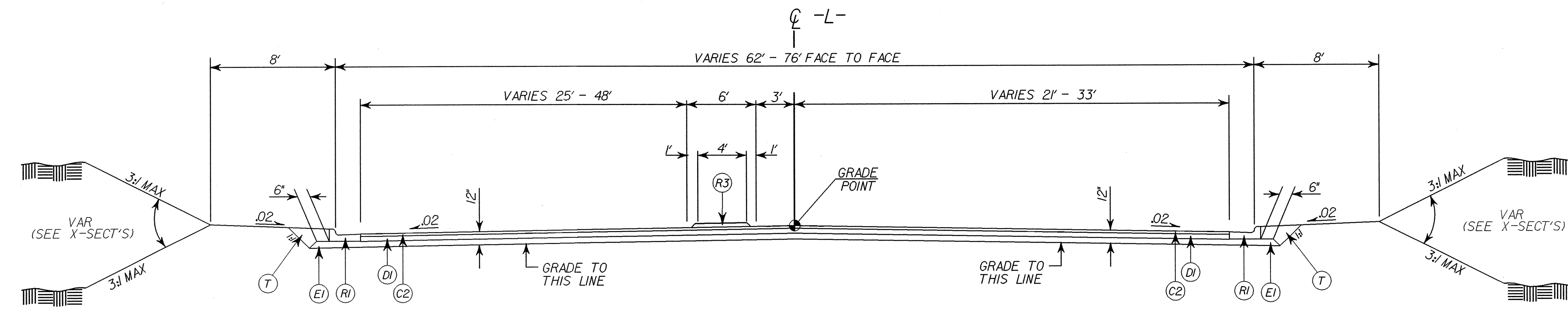
TYPICAL SECTION NO. 1

USE TYPICAL SECTION NO. 1:
-L- STA 10+24.00 TO STA 18+12.00



TYPICAL SECTION NO. 2

USE TYPICAL SECTION NO. 2:
-L- STA 18+12.00 TO STA 19+76.52



TYPICAL SECTION NO. 3

USE TYPICAL SECTION NO. 3:
-L- STA 20+38.26 TO STA 25+85.02

C1	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQ. YD.
C2	PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YARD PER 1" DEPTH TO BE PLACED IN LAYERS NOT TO EXCEED 2" IN DEPTH.
D1	PROP. APPROX. 4.0" ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS PER SQ. YD.
D2	PROP. VAR DEPTH ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0B, 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" IN DEPTH.
E1	PROP. APPROX. 5.0" ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 570 LBS PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS PER SQ. YD. PER 1" DEPTH, TO BE PLACED IN LAYERS NOT GREATER THAN 5.5" IN DEPTH OR LESS THAN 3" IN DEPTH
R1	2' 6" CONCRETE CURB AND GUTTER
R2	1' 6" CONCRETE CURB AND GUTTER
R3	5" MONOLITHIC CONCRETE ISLAND (SURFACE MOUNTED)
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE STANDARD WEDGING DETAIL SHEET NO. 2)

NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS OTHERWISE NOTED

MILLING AT PAVEMENT TIE-INS

NOTES TO CONTRACTOR

For surface mixes over 1" in thickness, mill the existing pavement in accordance with the following sketch as directed by the Engineer.

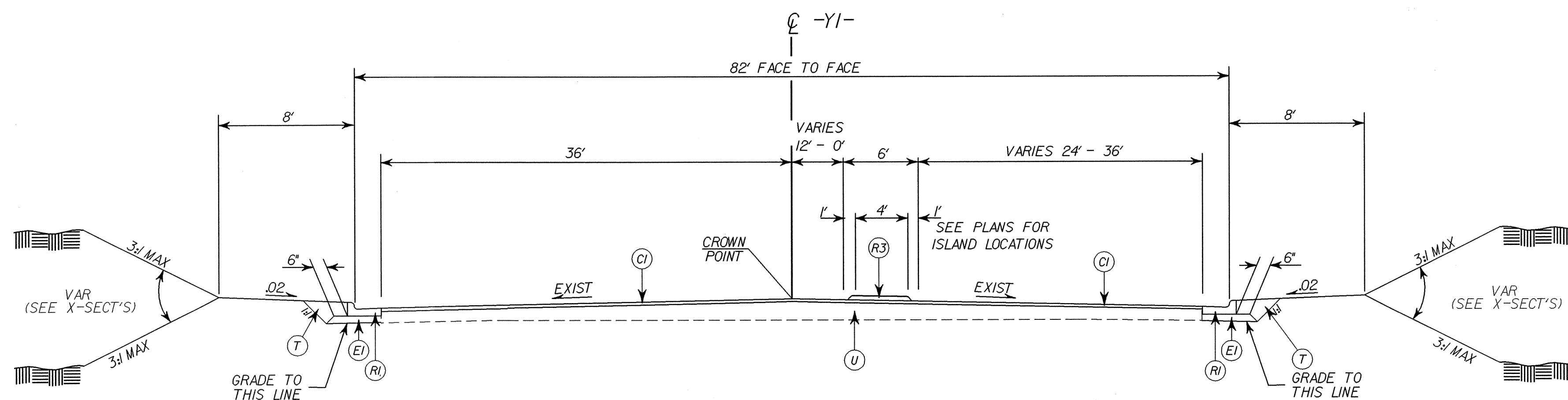
Locations shall include ties into existing concrete pavement, at bridge approaches where the bridge will not be resurfaced, and at the beginning and ending point of each resurfacing map.

Perform the work in accordance with Section 607 of the January 2006 North Carolina Department of Transportation Standard Specifications for Roads and Structures. Resurfacing will be accomplished at the same time as the milling operation.

Payment for this item will be made under: Incidental Milling (SY)

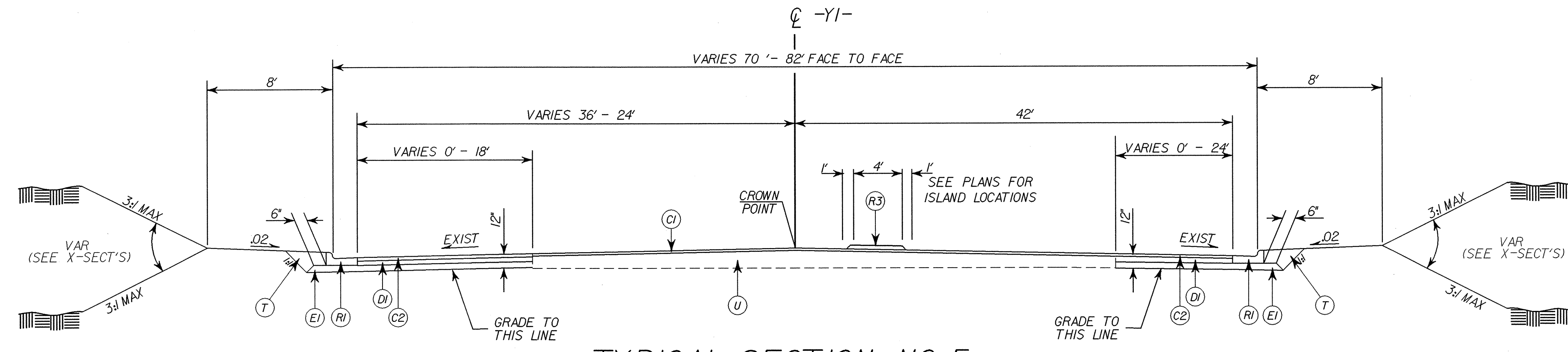
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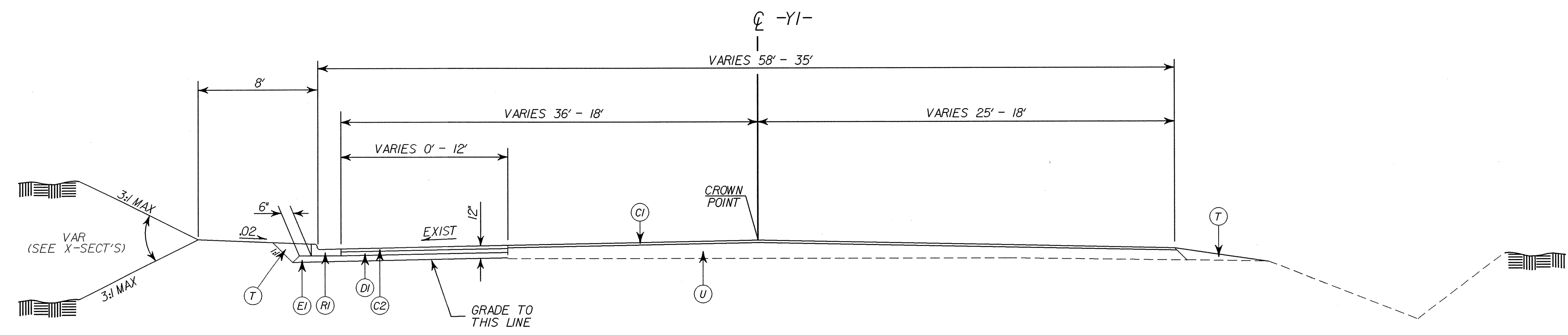
TYPICAL SECTION NO.4

USE TYPICAL SECTION NO. 4:
 -Y1- STA 10+54.47 TO STA 12+85.00



TYPICAL SECTION NO.5

USE TYPICAL SECTION NO. 5:
 -Y1- STA 12+85.00 TO STA 24+00.00



TYPICAL SECTION NO.6

USE TYPICAL SECTION NO. 6:
 -Y1A- STA 10+39.00 TO STA 16+08.06

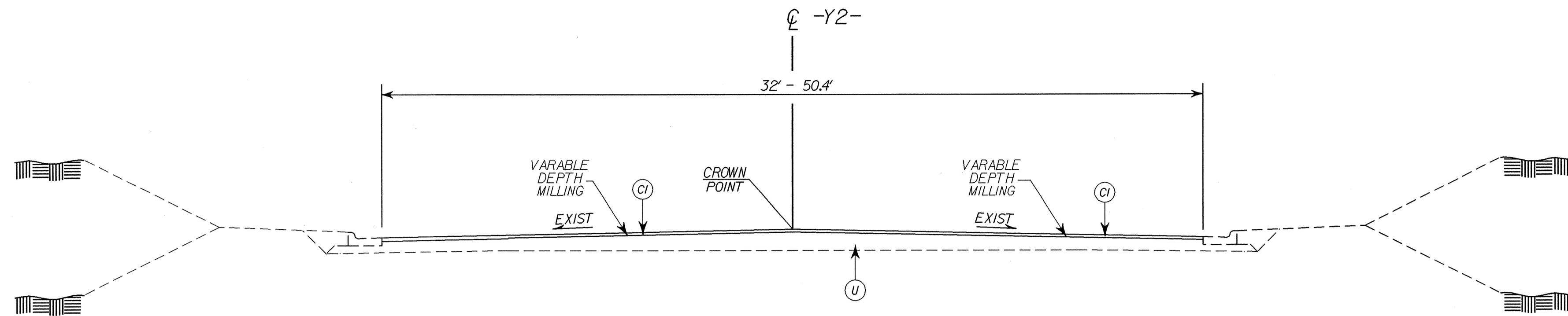
PAVEMENT SCHEDULE	
C1	1.5" S9.5B
C2	3.0" S9.5B
D1	4.0" I19.0B
E1	5.0" B25.0B
R1	2' 6" C & G
R2	1' 6" C & G
R3	5" MONOLITHIC CONCRETE ISLAND
T	EARTH MATERIAL
U	EXISTING PAVEMENT

NOTE: PAVEMENT EDGE SLOPES ARE 3:1 UNLESS OTHERWISE NOTED

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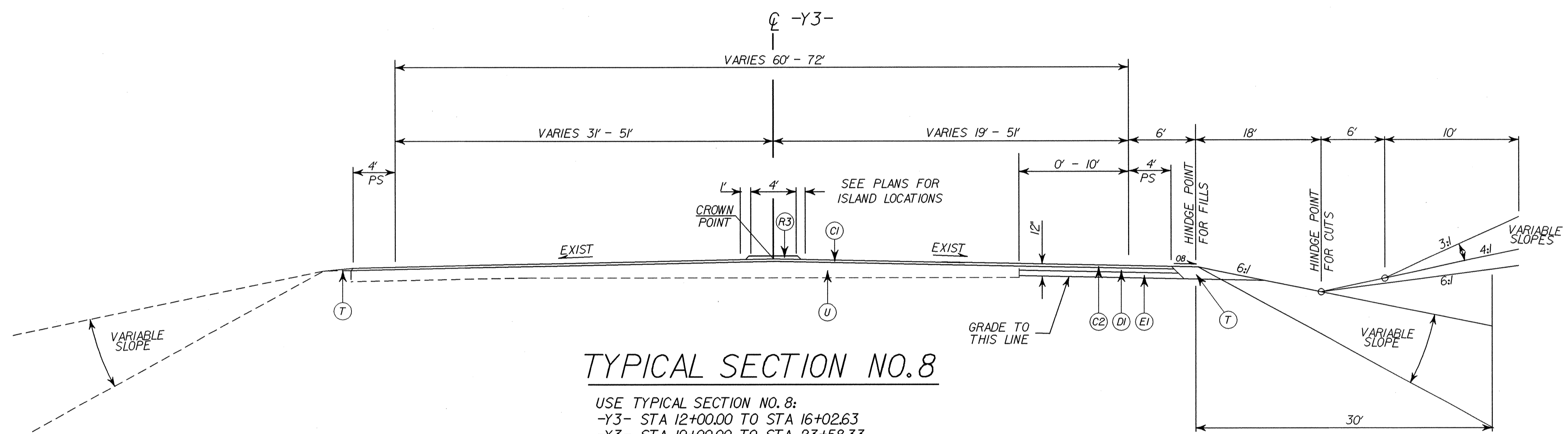
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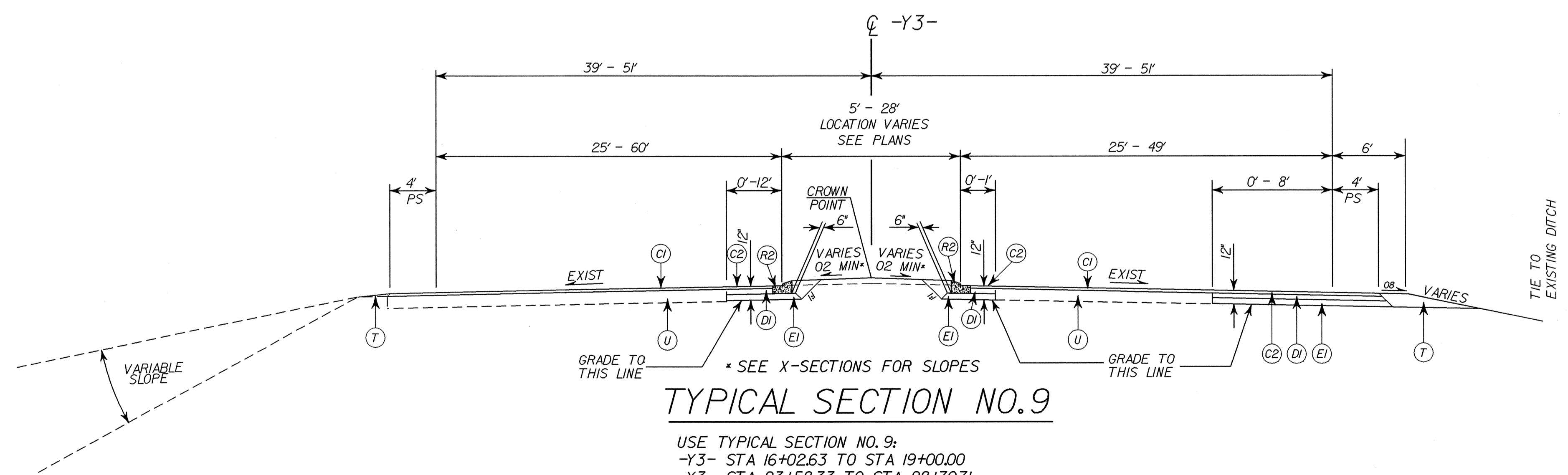
TYPICAL SECTION NO.7

USE TYPICAL SECTION NO. 7:
 -Y2- STA 12+21.00 TO STA 16+78.16
 -Y2- STA 18+77.86 TO STA 31+46±



TYPICAL SECTION NO.8

USE TYPICAL SECTION NO. 8:
 -Y3- STA 12+00.00 TO STA 16+02.63
 -Y3- STA 19+00.00 TO STA 23+58.33
 -Y3- STA 28+70.71 TO STA 40+75.00
 *SEE PLANS FOR MEDIAN CROSSOVER MONOLITHIC ISLAND
 PLACEMENT STA 13+03.45 TO STA 16+02.63



TYPICAL SECTION NO.9

USE TYPICAL SECTION NO. 9:
 -Y3- STA 16+02.63 TO STA 19+00.00
 -Y3- STA 23+58.33 TO STA 28+70.71

C1	1.5" S9.5B
C2	3.0" S9.5B
D1	4.0" 119.0B
E1	5.0" B25.0B
R3	5" MONOLITHIC CONCRETE ISLAND
T	EARTH MATERIAL
U	EXISTING PAVEMENT
NOTE: PAVEMENT EDGE SLOPES ARE UNLESS OTHERWISE NOTED	

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REVISIONS

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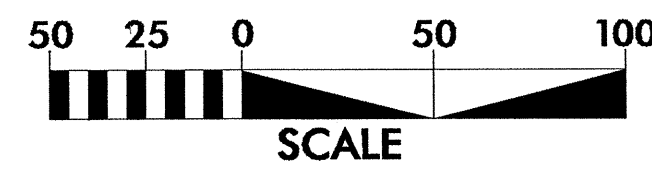
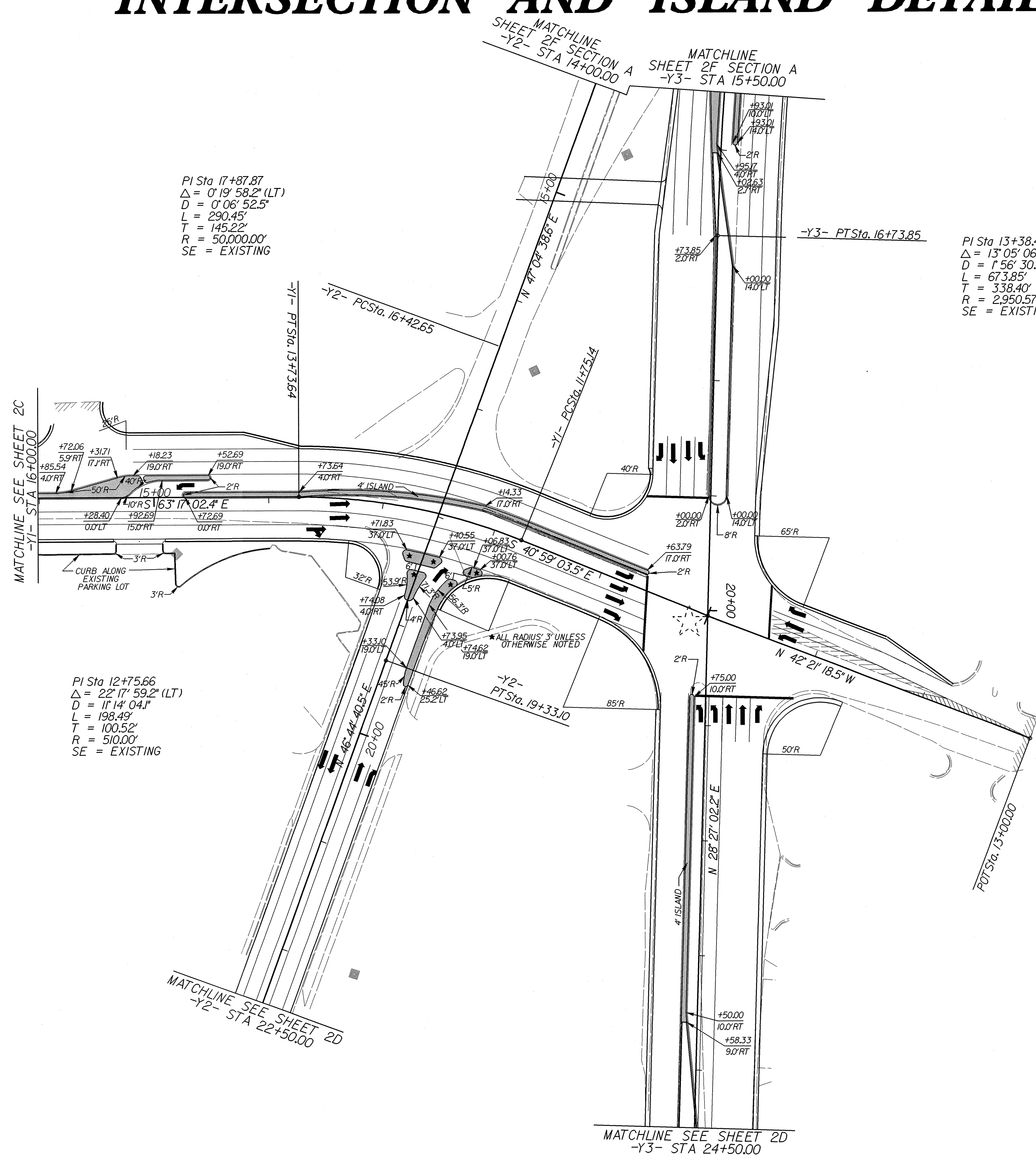
INTERSECTION AND ISLAND DETAIL

PROJECT REFERENCE NO. 37972	SHEET NO. 2E
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL DAVID W. BASS 9/4/08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL RICHARD L. HINER 9/5/08
PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 PHONE: (919) 876-6888	

PI Sta 17+87.87
 $\Delta = 0^\circ 19' 58.2''$ (LT)
 $D = 0' 06' 52.5''$
 $L = 290.45'$
 $T = 145.22'$
 $R = 50,000.00'$
 SE = EXISTING

PI Sta 13+38.40
 $\Delta = 13^\circ 05' 06.8''$ (LT)
 $D = 1' 56' 30.7''$
 $L = 673.85'$
 $T = 338.40'$
 $R = 2,950.57'$
 SE = EXISTING

PI Sta 12+75.66
 $\Delta = 22^\circ 17' 59.2''$ (LT)
 $D = 1' 14' 04.1''$
 $L = 198.49'$
 $T = 100.52'$
 $R = 510.00'$
 SE = EXISTING



★ EXISTING SIGNAL

NOTE: FOR PLAN VIEW SEE SHEET 6

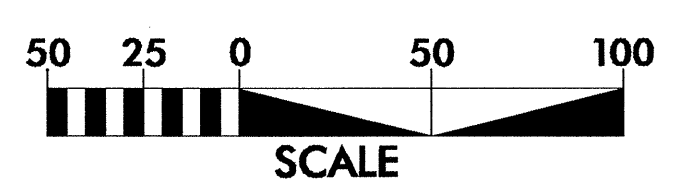
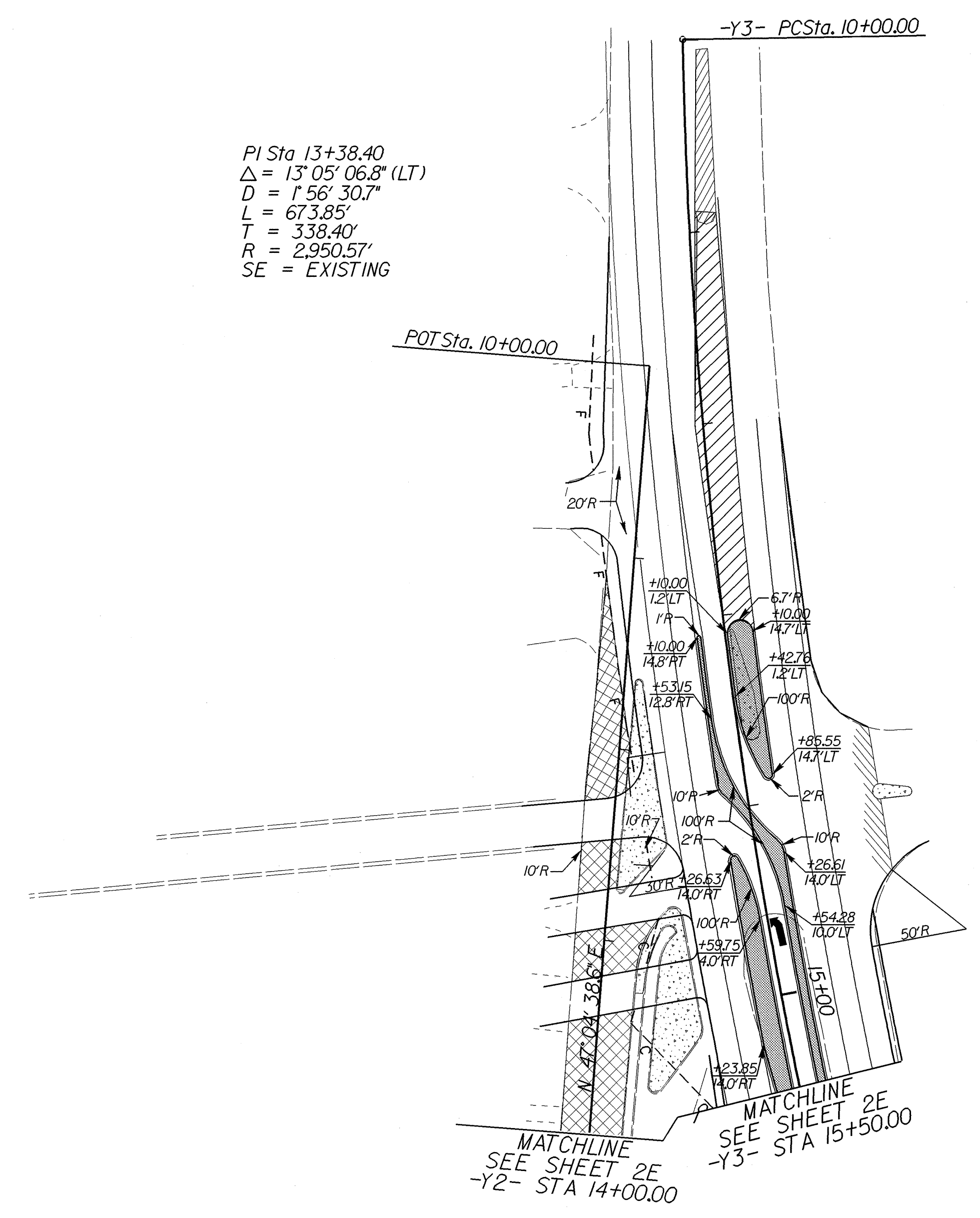
REVISIONS
 1/15/08 - CHANGED RIGHT OF WAY LABELS ON PARCEL 30.(DWB)

8/17/99
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 \$\$\$USERNAME\$\$\$

PROJECT REFERENCE NO.	SHEET NO.
37972	2F
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310 RALPHIGH, NORTH CAROLINA 27609 PHONE: (919) 876-6888	

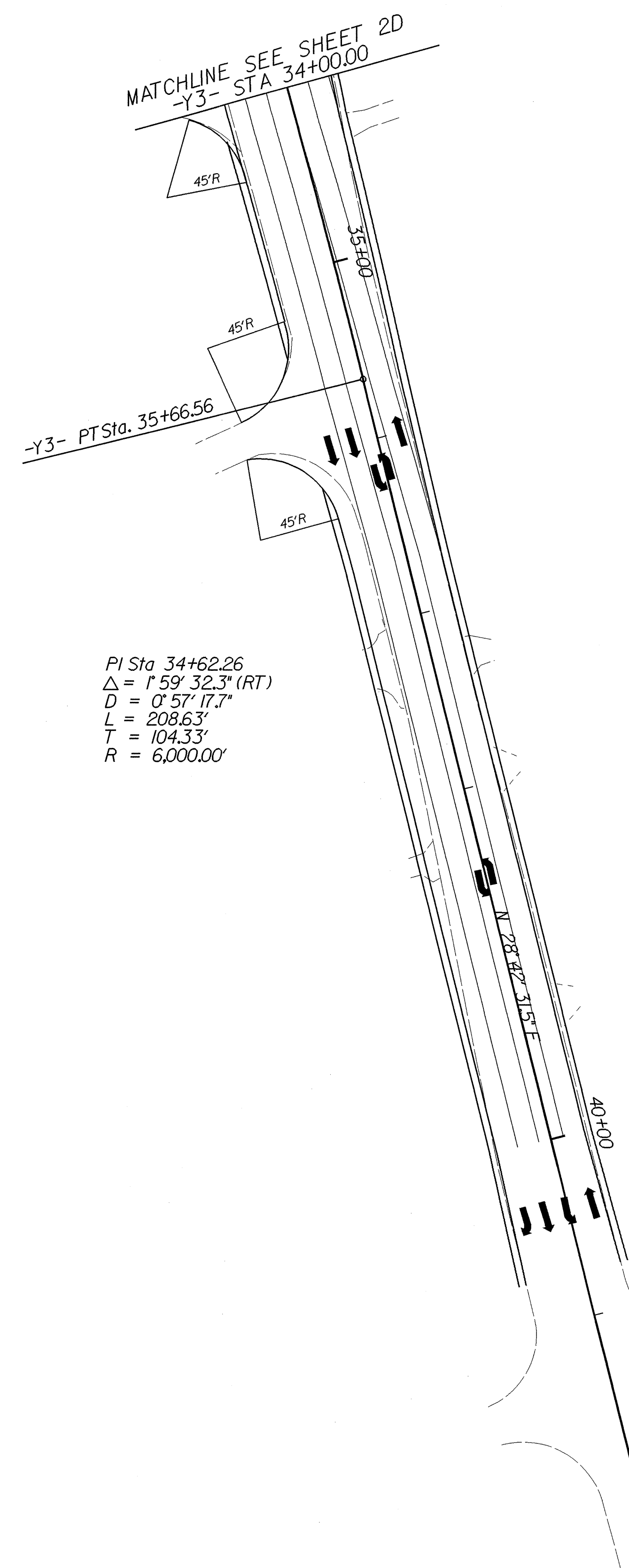
SECTION A

PI Sta 13+38.40
 $\Delta = 13^{\circ} 05' 06.8''$ (LT)
 $D = 1^{\circ} 56' 30.7''$
 $L = 673.85'$
 $T = 338.40'$
 $R = 2,950.57'$
 SE = EXISTING

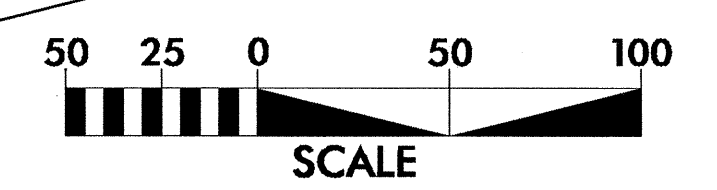


NOTE: FOR PLAN VIEW SEE SHEET 7

SECTION B



PI Sta 34+62.26
 $\Delta = 1^{\circ} 59' 32.3''$ (RT)
 $D = 0^{\circ} 57' 17.7''$
 $L = 208.63'$
 $T = 104.33'$
 $R = 6,000.00'$

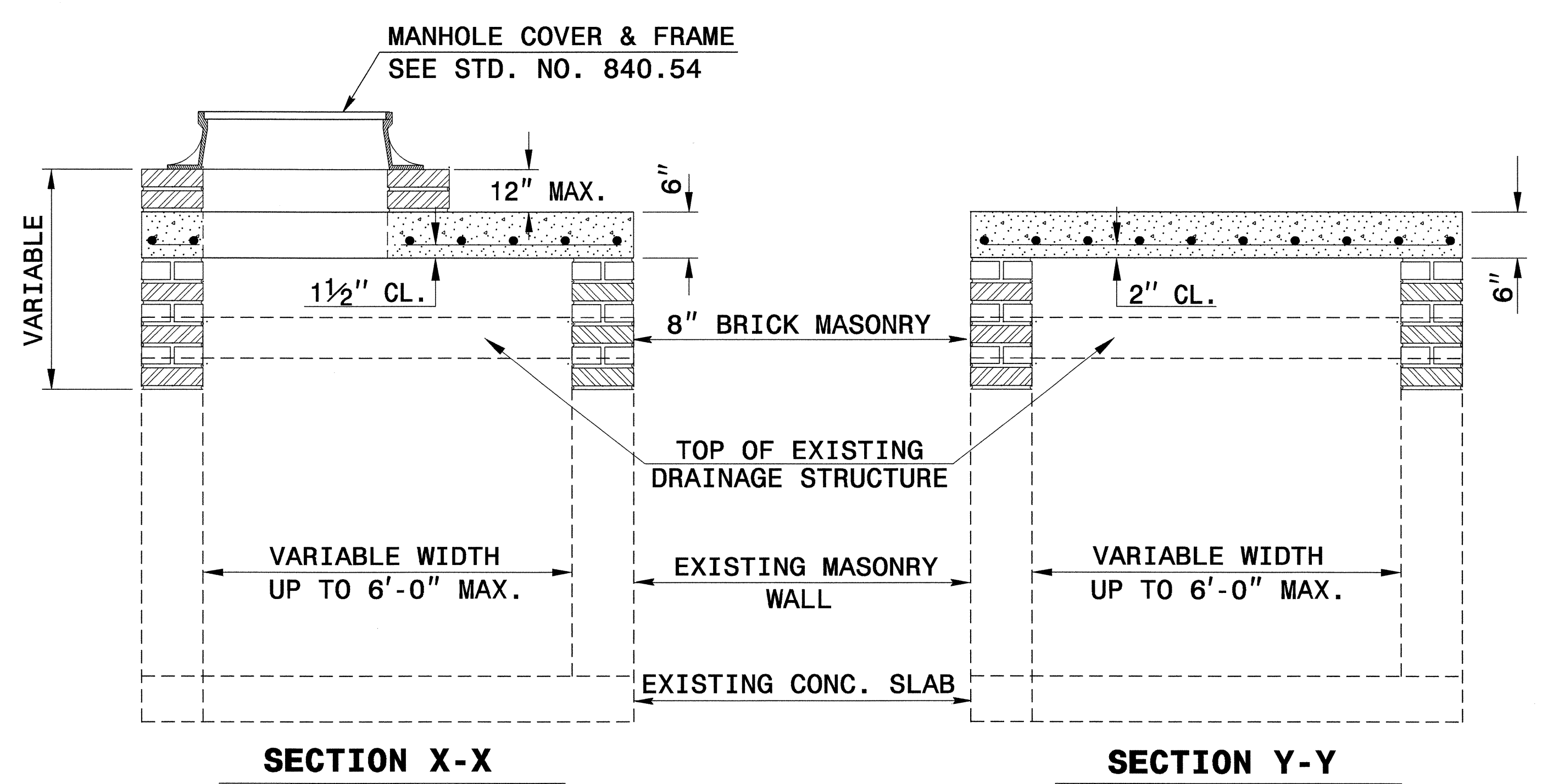
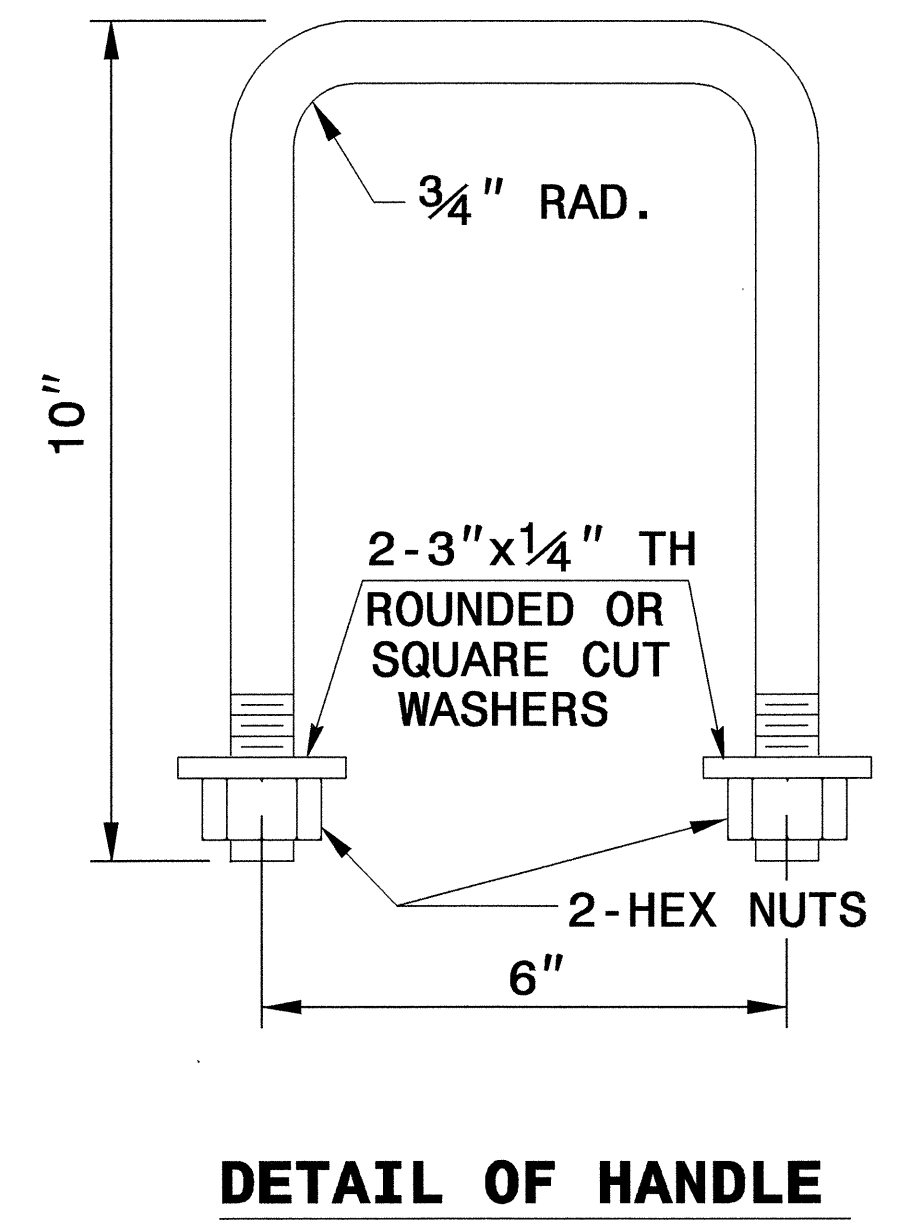
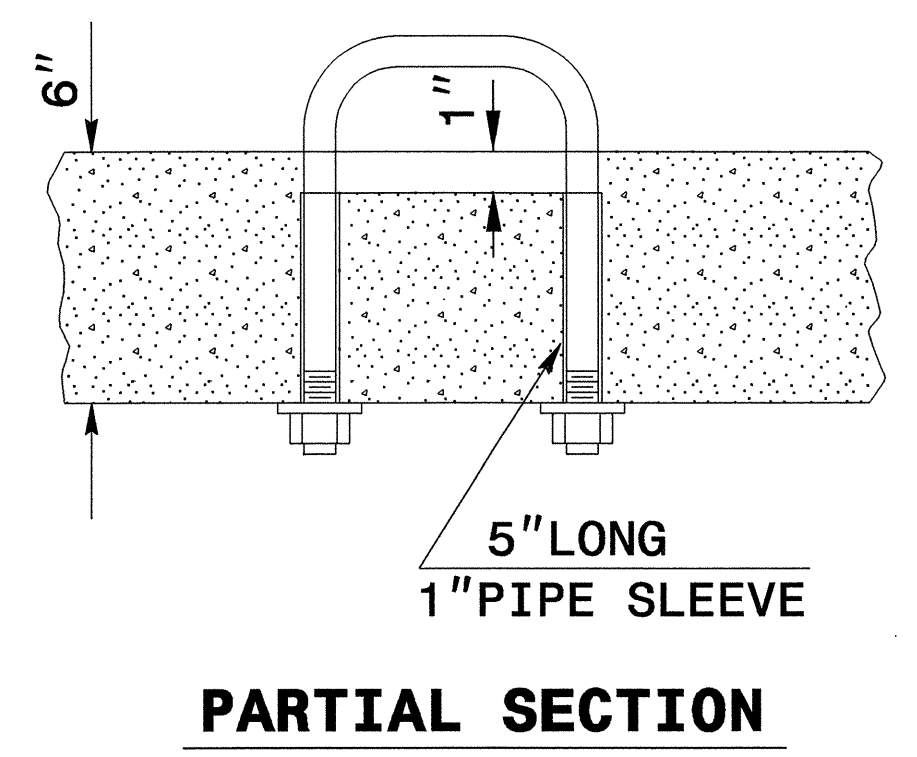
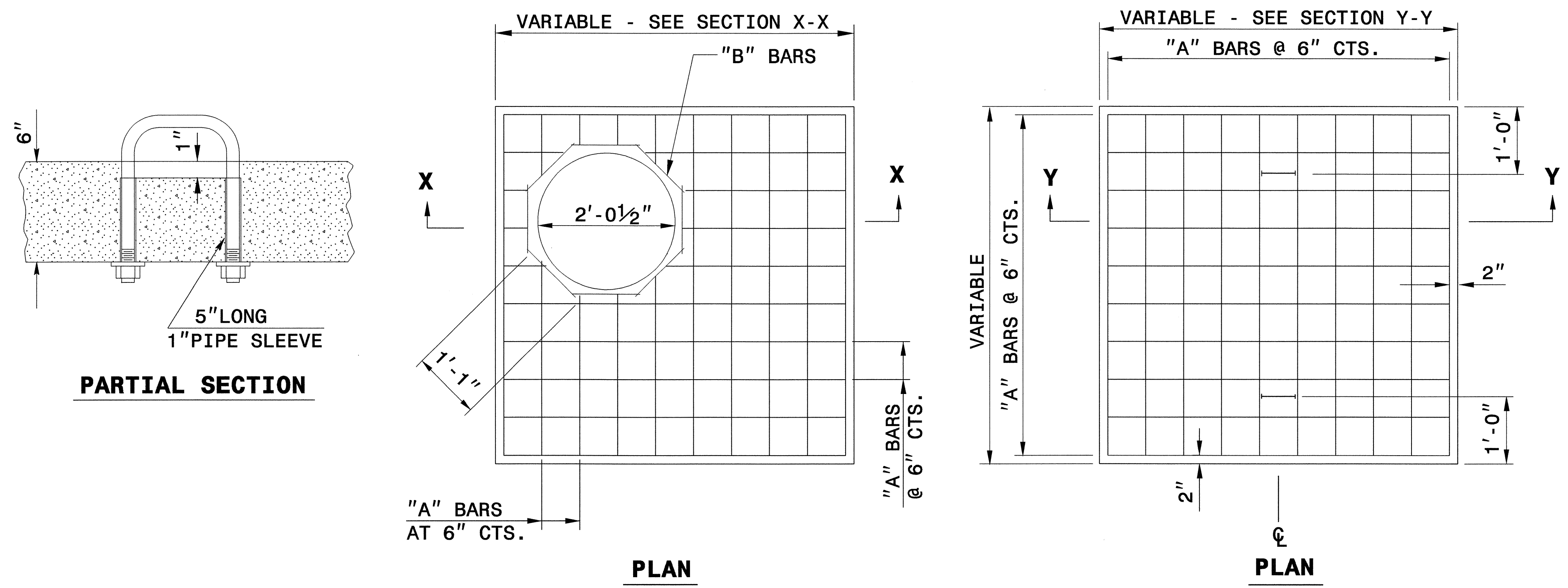


NOTE: FOR PLAN VIEW SEE SHEET 7

REVISIONS

8/17/99

04-SEP-2008 06:50
 r:\sr1917\whitelville\roadway\proj\sr1917_rdy.s2.dgn
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GENERAL NOTES:

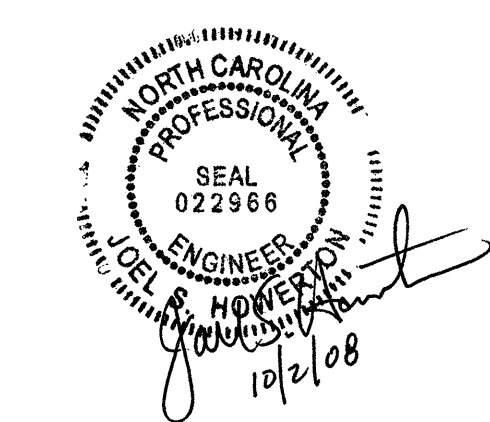
CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.

FIELD VERIFY THE DIMENSIONS FOR THE EXISTING BOXES

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"				.433 *
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: T.S.S. DATE: NOV. 1997
 MODIFIED BY: E.E.W. DATE: 8-28-02
 CHECKED BY: *[Signature]* DATE: 10/2/08
 FILE SPEC.: *[Signature]* /usr/details/stand/boxtoibe.dgn

11/2/08
 10/2/08
 8/28/02
 NOV. 1997
 T.S.S.
 E.E.W.
 Joe R. Howerton
 SEAL 022966
 NORTH CAROLINA
 PROFESSIONAL
 ENGINEER

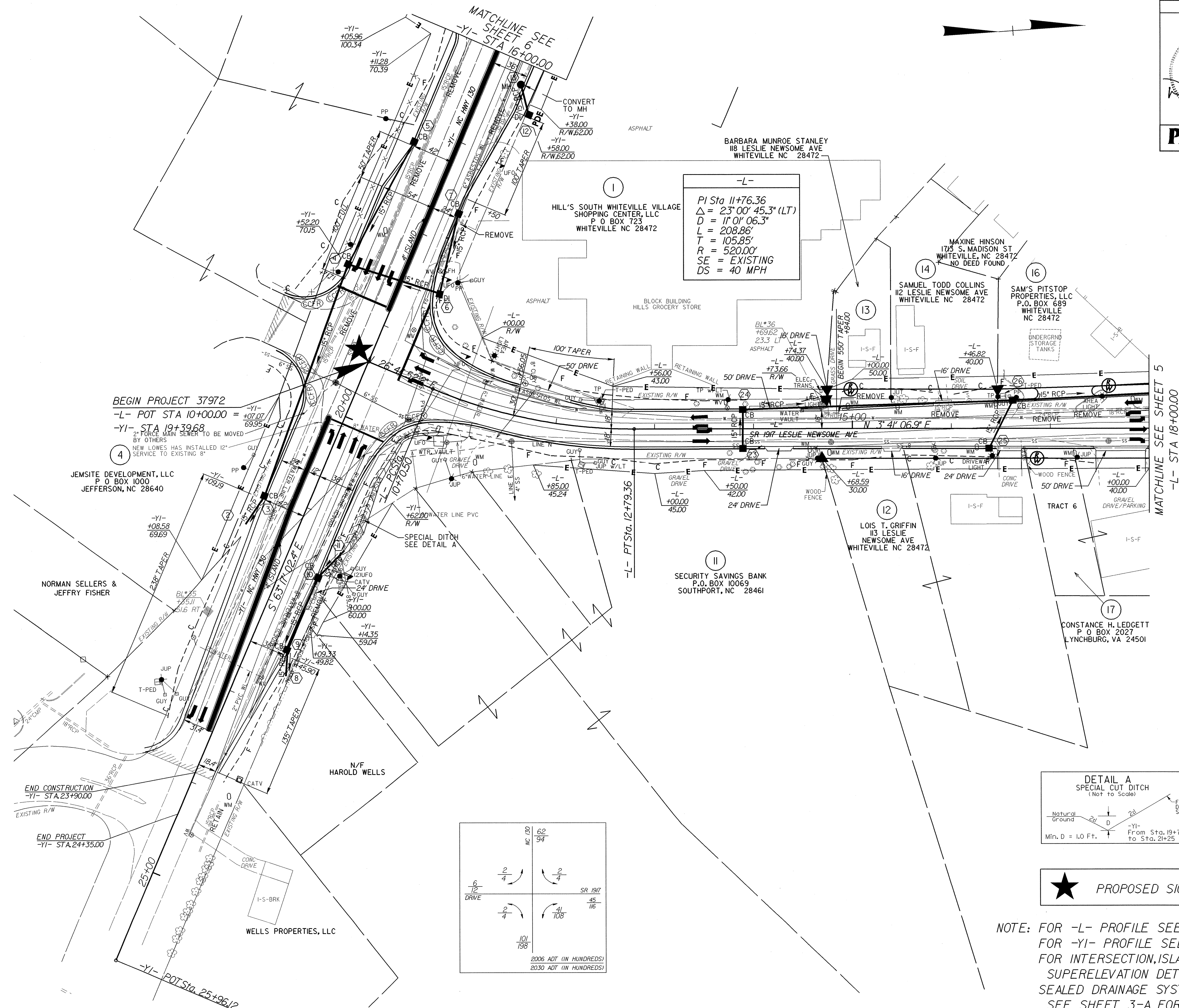
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C202137

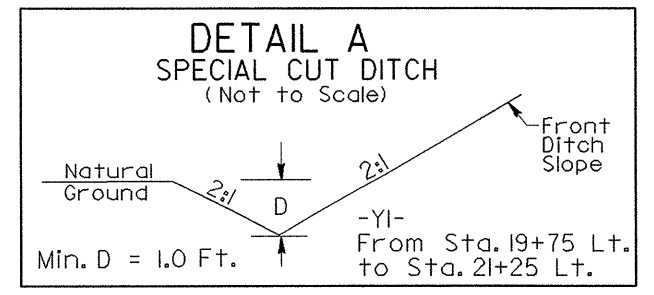
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
000010000-N	800	Lump Sum		MOBILIZATION	468500000-E	1205	12,305	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	608400000-E	1660	16.5	ACR	SEEDING & MULCHING
004300000-N	226	Lump Sum		GRADING	468600000-E	1205	19,160	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)	608700000-E	1660	6.5	ACR	MOWING
031800000-E	300	310	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	469500000-E	1205	528	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)	609000000-E	1661	150	LB	SEED FOR REPAIR SEEDING
036600000-E	310	2,148	LF	15" RC PIPE CULVERTS, CLASS III	471000000-E	1205	1,110	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)	609300000-E	1661	0.25	TON	FERTILIZER FOR REPAIR SEEDING
037200000-E	310	352	LF	18" RC PIPE CULVERTS, CLASS III	472100000-E	1205	56	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)	610800000-E	1665	7.75	TON	FERTILIZER TOPDRESSING
037800000-E	310	4	LF	24" RC PIPE CULVERTS, CLASS III	472500000-E	1205	155	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	611400000-N	SP	5	HR	SPECIALIZED HAND MOWING
038400000-E	310	56	LF	30" RC PIPE CULVERTS, CLASS III	481000000-E	1205	63,000	LF	PAINT PAVEMENT MARKING LINES (4")	611700000-N	SP	12	EA	RESPONSE FOR EROSION CONTROL
039000000-E	310	348	LF	36" RC PIPE CULVERTS, CLASS III	482000000-E	1205	1,060	LF	PAINT PAVEMENT MARKING LINES (8")	706000000-E	1705	4,250	LF	SIGNAL CABLE
045300000-E	310	3	EA	*** PIPE END SECTION (15")	483500000-E	1205	2,220	LF	PAINT PAVEMENT MARKING LINES (24")	712000000-E	1705	21	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
045300000-E	310	1	EA	*** PIPE END SECTION (24")	484000000-N	1205	112	EA	PAINT PAVEMENT MARKING CHARACTER	713200000-E	1705	2	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)
099500000-E	340	1,136	LF	PIPE REMOVAL	484500000-N	1205	320	EA	PAINT PAVEMENT MARKING SYMBOL	714400000-E	1705	12	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
122000000-E	545	100	TON	INCIDENTAL STONE BASE	490000000-N	1251	391	EA	PERMANENT RAISED PAVEMENT MARKERS	725200000-E	1710	20	LF	MESSENGER CABLE (1/4")
133000000-E	607	1,940	SY	INCIDENTAL MILLING	532560000-E	1510	619	LF	6" WATER LINE	726400000-E	1710	1,195	LF	MESSENGER CABLE (3/8")
148900000-E	610	4,410	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B	532580000-E	1510	73	LF	8" WATER LINE	727900000-E	1715	1,865	LF	TRACER WIRE
149800000-E	610	3,280	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0B	532620000-E	1510	879	LF	12" WATER LINE	728800000-E	1715	80	LF	PAVED TRENCHING (*****)
151900000-E	610	5,470	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	554000000-E	1515	4	EA	6" VALVE	730000000-E	1715	3,135	LF	UNPAVED TRENCHING (*****)
156000000-E	620	672	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	554600000-E	1515	3	EA	8" VALVE	730100000-E	1715	1,660	LF	DIRECTIONAL DRILL (*****)
169300000-E	654	110	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR	555800000-E	1515	3	EA	12" VALVE	732400000-N	1716	32	EA	JUNCTION BOX (STANDARD SIZE)
220900000-E	838	1,666	CY	ENDWALLS	564800000-N	1515	3	EA	RELOCATE WATER METER	734800000-N	1716	5	EA	JUNCTION BOX (OVER-SIZED, HEAVY DUTY)
222000000-E	838	7.2	CY	REINFORCED ENDWALLS	564900000-N	1515	2	EA	RECONNECT WATER METER	737200000-N	1721	5	EA	GUY ASSEMBLY
225300000-E	840	2.3	CY	PIPE COLLARS	566600000-E	1515	1	EA	FIRE HYDRANT	742000000-E	1722	1	EA	2" RISER WITH WEATHERHEAD
228600000-N	840	37	EA	MASONRY DRAINAGE STRUCTURES	567200000-N	1515	1	EA	RELOCATE FIRE HYDRANT	743200000-E	1722	1	EA	2" RISER WITH HEAT SHRINK TUBING
237400000-N	840	6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE **	568900000-E	1515	1	EA	GENERIC UTILITY ITEM RELOCATE 2" WATER METER	744400000-E	1725	6,620	LF	INDUCTIVE LOOP SAWCUT
237400000-N	840	11	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE **	576800000-N	1520	2	EA	SANITARY SEWER CLEAN-OUT	745600000-E	1726	16,130	LF	LEAD-IN CABLE (*****)
237400000-N	840	16	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE **	580100000-E	1530	226	LF	ABANDON 8" UTILITY PIPE	751600000-E	1730	2,500	LF	COMMUNICATIONS CABLE (**FIBER)
239600000-N	840	2	EA	FRAME WITH COVER, STD 840.54	588200000-N	SP	3	EA	GENERIC UTILITY ITEM RECONNECT 3/4" WATER METER (COPPER TUBING)	754000000-N	1731	1	EA	SPLICE ENCLOSURE
240700000-N	840	3	EA	STEEL FRAME WITH TWO GRATES, STD 840.37	588200000-N	SP	5	EA	GENERIC UTILITY ITEM RELOCATE 3/4" WATER METER (COPPER TUBING)	755200000-N	1731	2	EA	INTERCONNECT CENTER
253500000-E	846	670	LF	***X*** CONCRETE CURB (8" X 18")	588200000-N	SP	1	EA	GENERIC UTILITY ITEM REMOVE WATER METER	756400000-N	1732	2	EA	FIBER-OPTIC TRANSCEIVER, DROP & REPEAT
254200000-E	846	1,650	LF	1'-6" CONCRETE CURB & GUTTER	588800000-E	SP	870	LF	GENERIC UTILITY ITEM 12" DI WATER PIPE W/NEOPRENE GASKETS	756600000-N	1733	5	EA	DELINEATOR MARKER
254900000-E	846	5,230	LF	2'-6" CONCRETE CURB & GUTTER	600000000-E	1605	6,120	LF	GENERIC UTILITY ITEM 8" DI WATER PIPE W/NEOPRENE GASKETS	757600000-N	SP	8	EA	METAL STRAIN SIGNAL POLE
261200000-E	848	230	SY	6" CONCRETE DRIVEWAY	600600000-E	1610	450	TON	TEMPORARY SILT FENCE	761300000-N	SP	8	EA	SOIL TEST
264700000-E	852	1,540	SY	5" MONOLITHIC CONCRETE ISLANDS (SURFACE MOUNTED)	600900000-E	1610	700	TON	STONE FOR EROSION CONTROL, CLASS A	768400000-N	1750	2	EA	SIGNAL CABINET FOUNDATION
283000000-N	858	11	EA	ADJUSTMENT OF MANHOLES	601200000-E	1610	570	TON	STONE FOR EROSION CONTROL, CLASS B	768600000-N	SP	1	EA	CONDUIT ENTRANCE INTO EXISTING FOUNDATION
284500000-N	858	30	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	601500000-E	1615	16	ACR	SEDIMENT CONTROL STONE	775600000-N	1751	2	EA	CONTROLLER WITH CABINET (TYPE 2070L, BASE MOUNTED)
293800000-N	SP	2	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX WITH MANHOLE COVER	601800000-E	1620	400	LB	TEMPORARY MULCHING	778000000-N	1751	22	EA	DETECTOR CARD (TYPE 2070L)
365600000-E	876	615	SY	FILTER FABRIC FOR DRAINAGE	602100000-E	1620	2.5	TON	SEED FOR TEMPORARY SEEDING	790100000-N	1753	3	EA	CABINET BASE EXTENDER
440000000-E	1110	150	SF	WORK ZONE SIGNS (STATIONARY)	602400000-E	1622	50	LF	FERTILIZER FOR TEMPORARY SEEDING	794800000-N	SP	1	EA	TRAFFIC SIGNAL REMOVAL
440500000-E	1110	240	SF	WORK ZONE SIGNS (PORTABLE)	602700000-N	1622	2	EA	TEMPORARY SLOPE DRAINS	798000000-N	SP	2	EA	GENERIC SIGNAL ITEM MODIFY EXISTING 2070L CONTROLLER & CABINET
441000000-E	1110	40	SF	WORK ZONE SIGNS (BARRICADE MOUNTED)	603000000-E	1630	1,265	CY	INLET PROTECTION AT TEMPORARY SLOPE DRAINS					
441500000-N	1115	2	EA	FLASHING ARROW PANELS, TYPE C	603600000-E	1631	4,050	SY	SILT EXCAVATION					
442000000-N	1120	3	EA	CHANGEABLE MESSAGE SIGN	603700000-E	SP	45	SY	MATting FOR EROSION CONTROL					
443000000-N	1130	300	EA	DRUMS	604200000-E	1632	880	LF	COIR FIBER MAT					
443500000-N	1135	300	EA	CONES	607101000-E	SP	205	LF	1/4" HARDWARE CLOTH					
444500000-E	1145	32	LF	BARRICADES (TYPE III)	607102000-E	SP	77	LB	WATTLE					
445000000-N	1150	160	HR	FLAGGER	607103000-E	SP	470	LF	POLYACRYLAMIDE (PAM)					
448000000-N	1165	1	EA	TMA	607105000-E	SP	7	EA	COIR FIBER BAFFLES					
451000000-N	SP	100	HR	POLICE					*** SKIMMER (1-1/2")					

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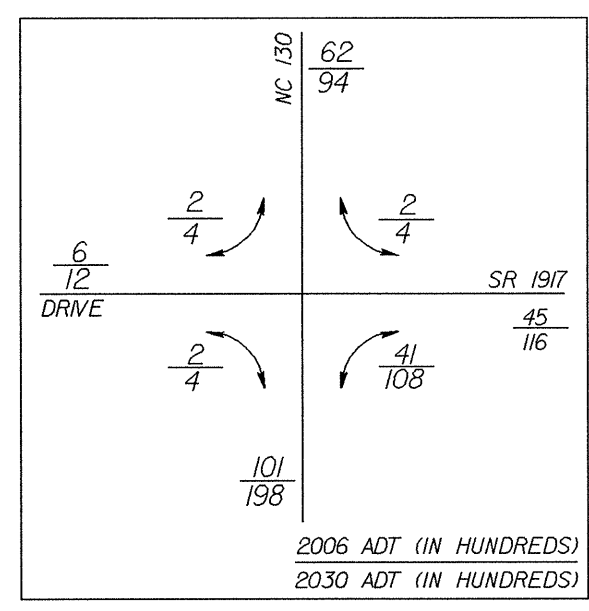
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 -L- POT STA 10+00.00 = +07.07
 -YI- STA 19+39.68 = +69.95

-L-
 PI Sta 11+76.36
 $\Delta = 23^{\circ} 00' 45.3" (LT)$
 $D = 11^{\circ} 01' 06.3"$
 $L = 208.86'$
 $T = 105.85'$
 $R = 520.00'$
 $SE = EXISTING$
 $DS = 40 MPH$



★ PROPOSED SIGNAL

NOTE: FOR -L- PROFILE SEE SHEET 8
 FOR -YI- PROFILE SEE SHEET 9
 FOR INTERSECTION, ISLAND AND
 SUPERELEVATION DETAIL SEE SHEET 2C
 SEALED DRAINAGE SYSTEM ON PARCEL 16
 SEE SHEET 3-A FOR DETAILS



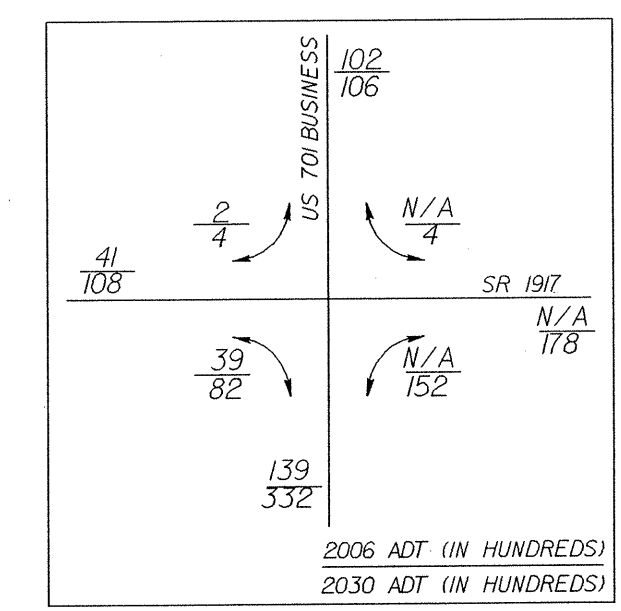
REVISIONS

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8/17/99

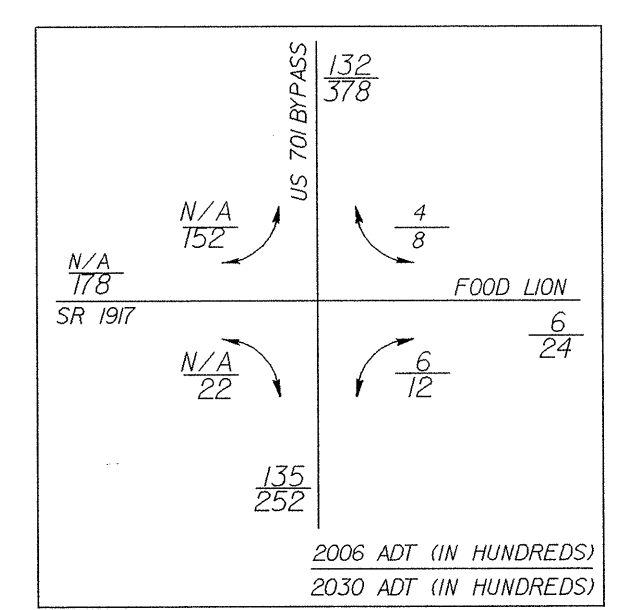
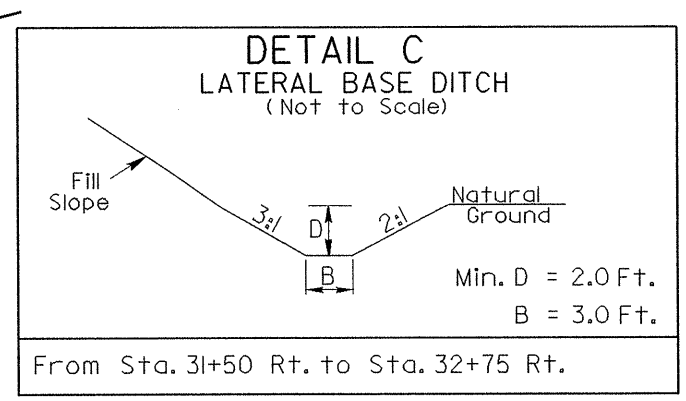
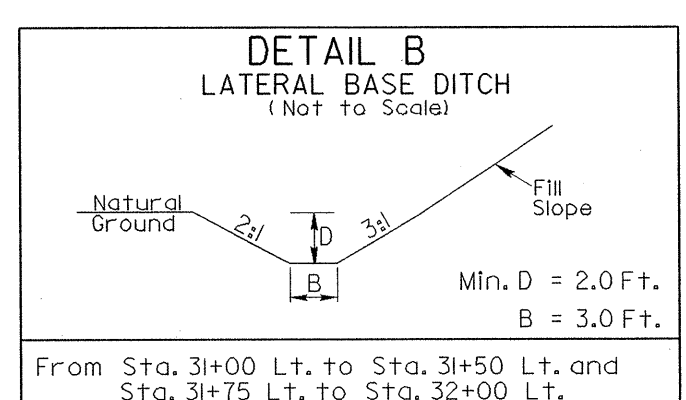
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PROJECT REFERENCE NO. 37972	SHEET NO. 5
RW SHEET NO.	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL DAVID W. BISHOP 9/12/08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL RICHARD L. HINLEY 9/11/08
PBS 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 PHONE: (919) 876-6888	



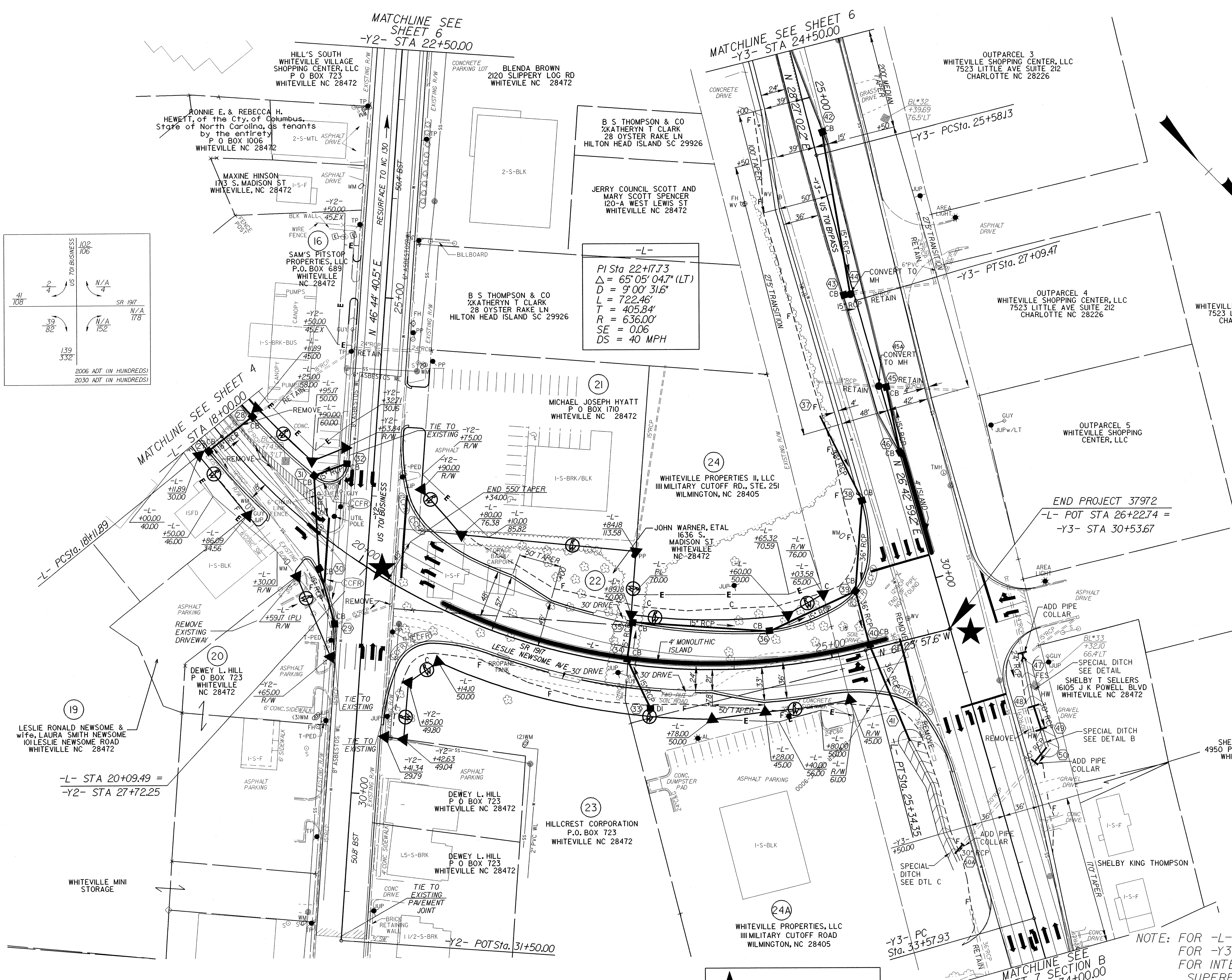
-L-
 PI Sta 22+17.73
 $\Delta = 65^{\circ} 05' 04.7''$ (LT)
 $D = 9^{\circ} 00' 31.6''$
 $L = 722.46'$
 $T = 405.84'$
 $R = 636.00'$
 $SE = 0.06$
 $DS = 40$ MPH

-Y3-
 PI Sta 26+33.80
 $\Delta = 1^{\circ} 44' 03.0''$ (LT)
 $D = 1^{\circ} 08' 45.3''$
 $L = 151.34'$
 $T = 75.67'$
 $R = 5,000.00'$
 $SE =$ EXISTING



★ PROPOSED SIGNAL

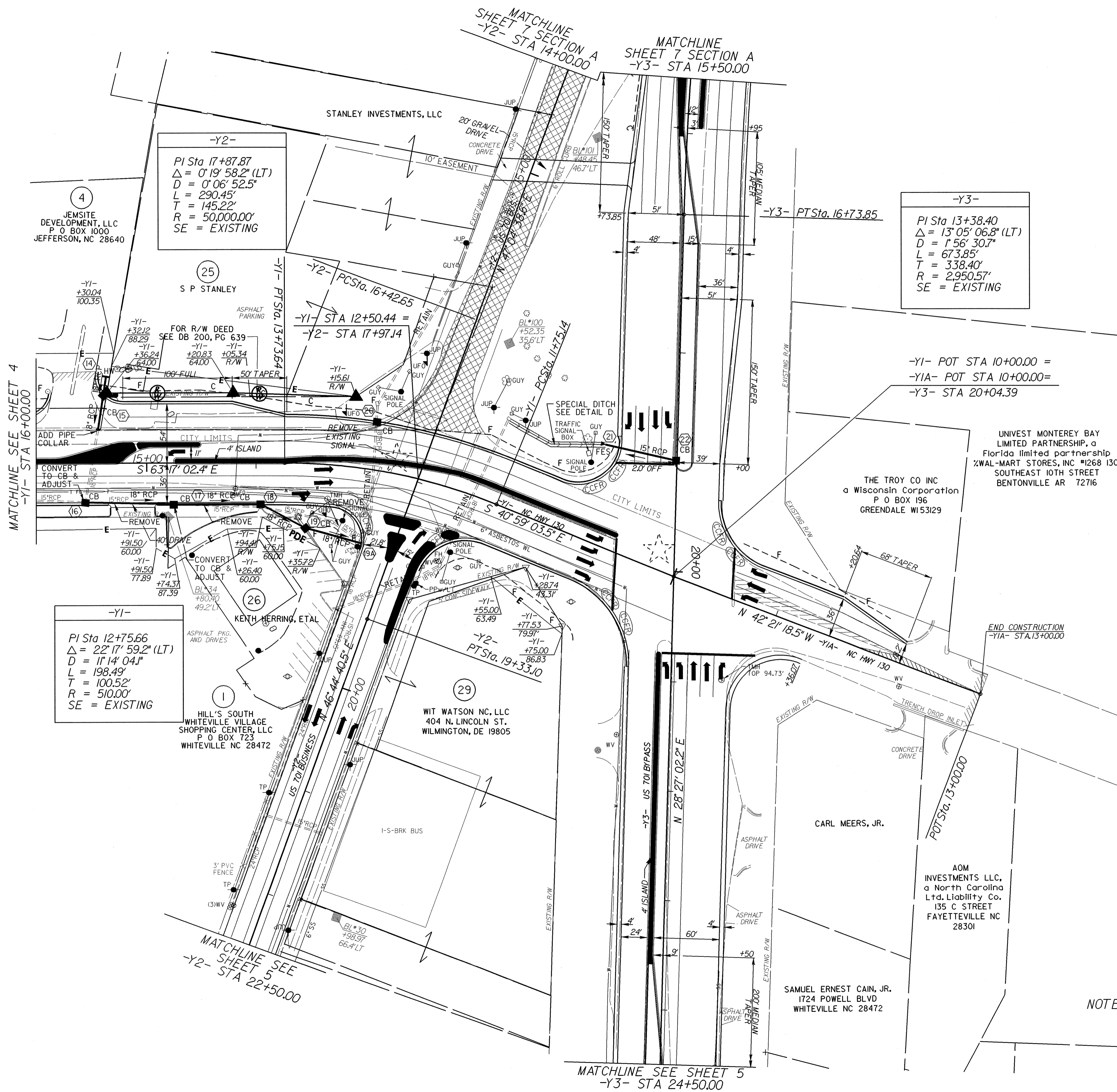
NOTE: FOR -L- PROFILE SEE SHEET 8
 FOR -Y3- PROFILE SEE SHEET 10
 FOR INTERSECTION, ISLAND AND SUPERELEVATION DETAIL SEE SHEET 2D
 SEALED DRAINAGE SYSTEM ON PARCEL 16 SEE SHEET 3-A FOR DETAILS



REVISIONS

8/17/99

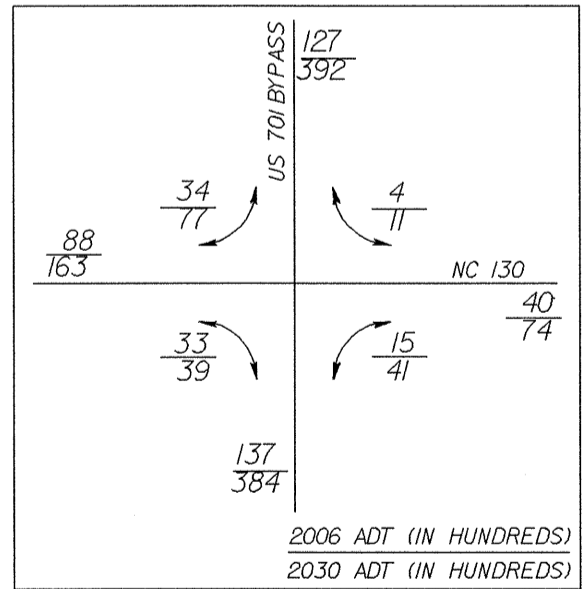
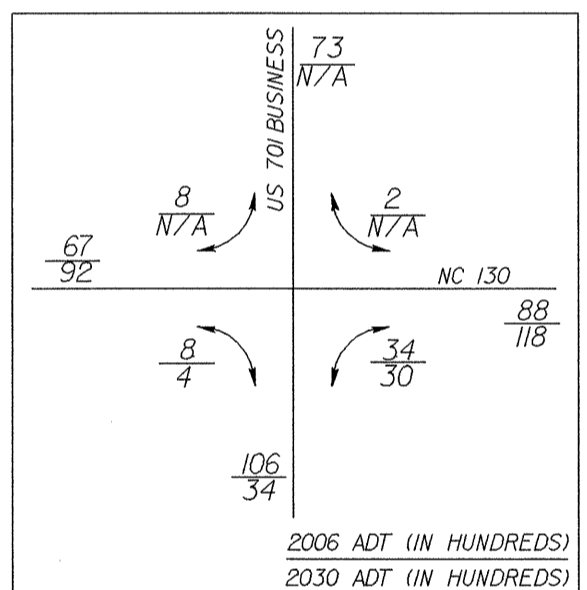
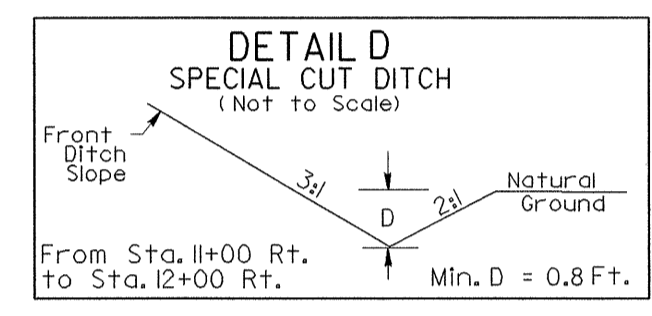
REVISIONS



-Y2-
PI Sta 17+87.87
 $\Delta = 0' 19' 58.2''$ (LT)
 $D = 0' 06' 52.5''$
 $L = 290.45'$
 $T = 145.22'$
 $R = 50,000.00'$
SE = EXISTING

-Y3-
PI Sta 13+38.40
 $\Delta = 13' 05' 06.8''$ (LT)
 $D = 1' 56' 30.7''$
 $L = 673.85'$
 $T = 338.40'$
 $R = 2,950.57'$
SE = EXISTING

-Y1-
PI Sta 12+75.66
 $\Delta = 22' 17' 59.2''$ (LT)
 $D = 1' 14' 04.1''$
 $L = 198.49'$
 $T = 100.52'$
 $R = 510.00'$
SE = EXISTING



PAVEMENT REMOVAL

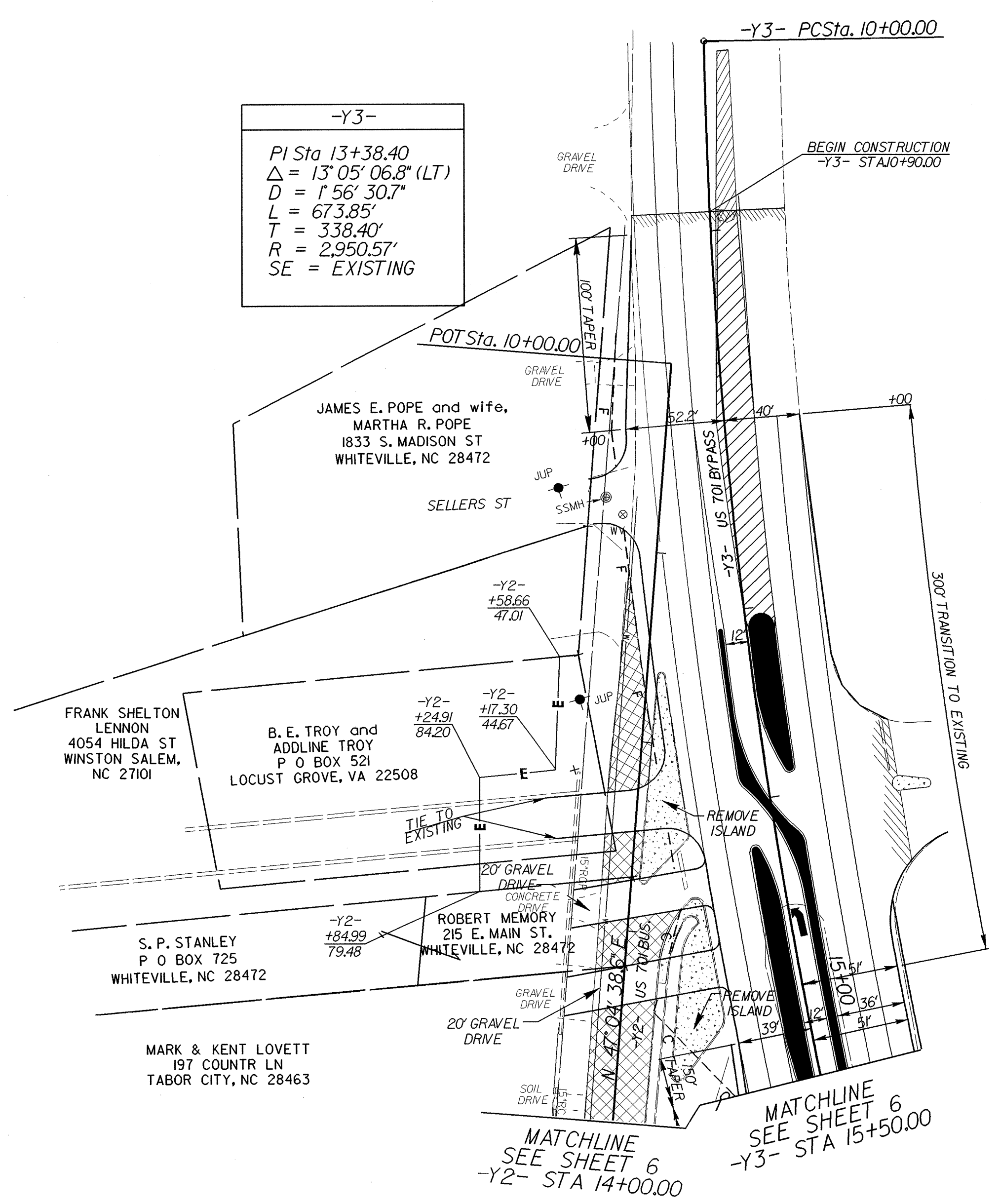
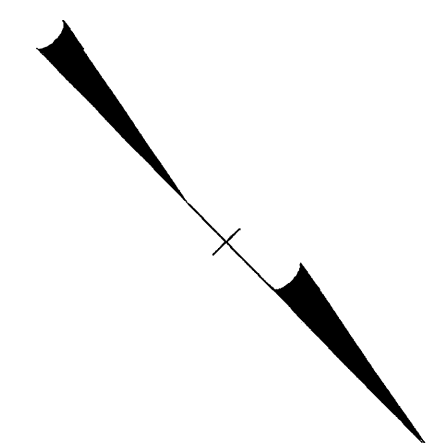
EXISTING SIGNAL

NOTE: FOR -Y1- PROFILE SEE SHEET 9
FOR -Y3- PROFILE SEE SHEET 10
FOR -Y1A- PROFILE SEE SHEET 11
FOR INTERSECTION AND ISLAND DETAIL SEE SHEET 2E

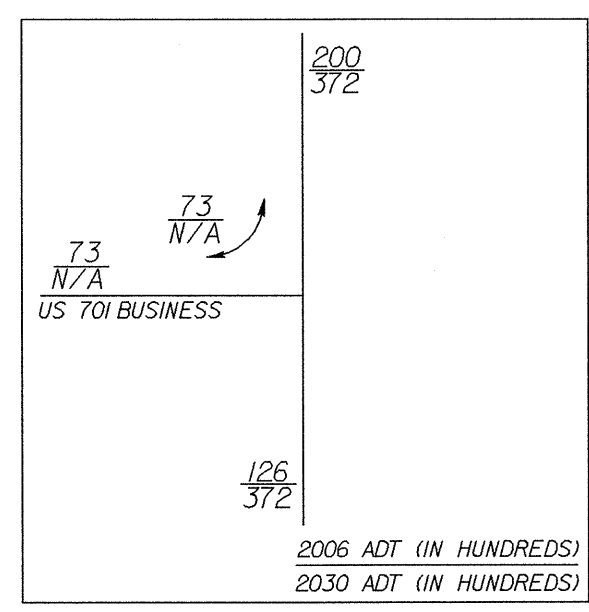
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8/17/99

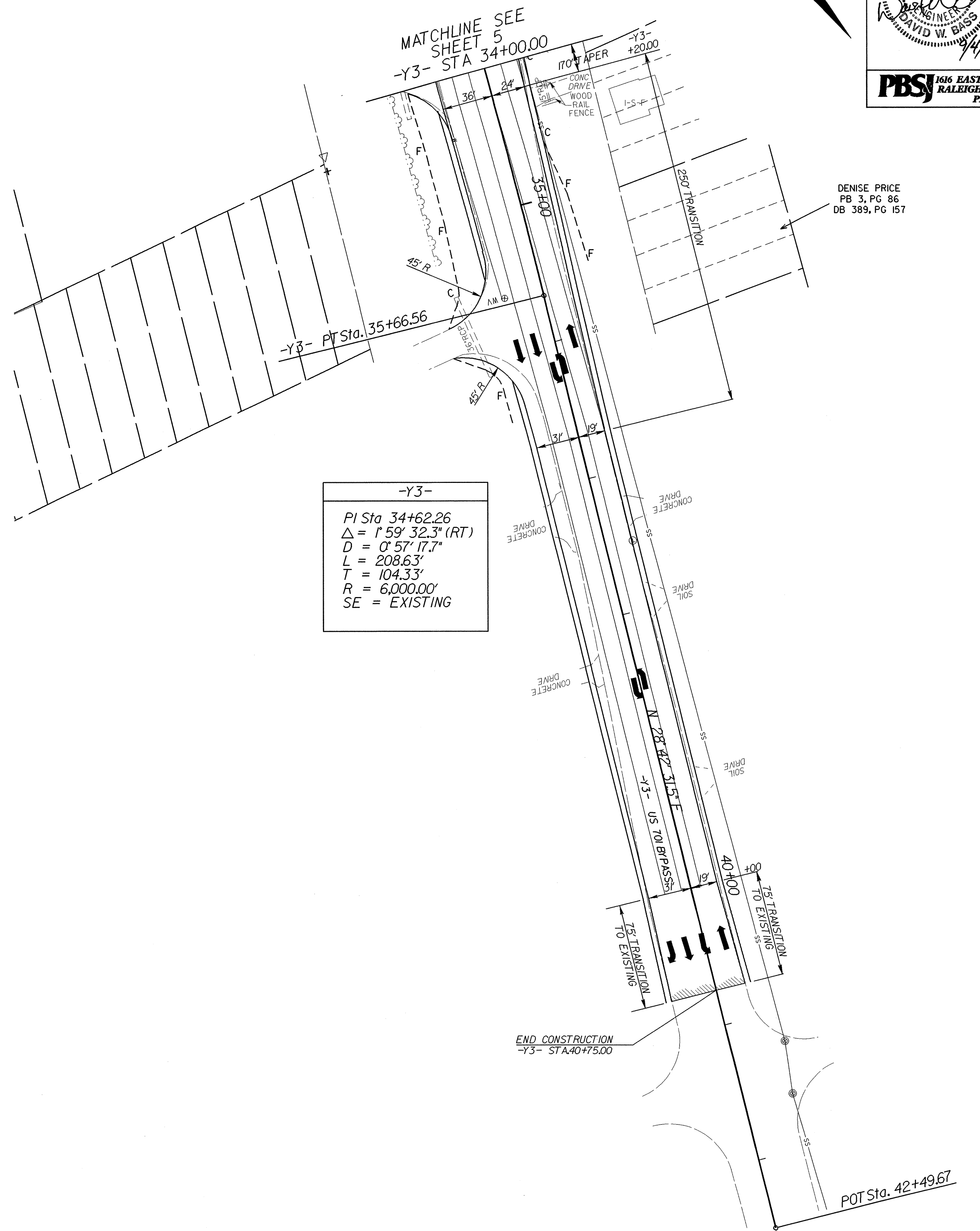
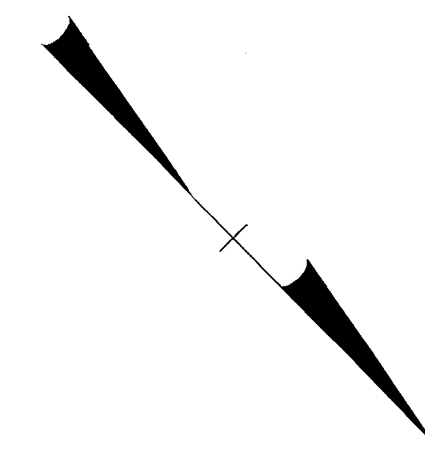
SECTION A



-Y3-
 PI Sta 34+62.26
 $\Delta = 1^\circ 59' 32.3''$ (RT)
 $D = 0^\circ 57' 17.7''$
 $L = 208.63'$
 $T = 104.33'$
 $R = 6,000.00'$
 SE = EXISTING



SECTION B



DENISE PRICE
 PB 3, PG 86
 DB 389, PG 157

PAVEMENT REMOVAL

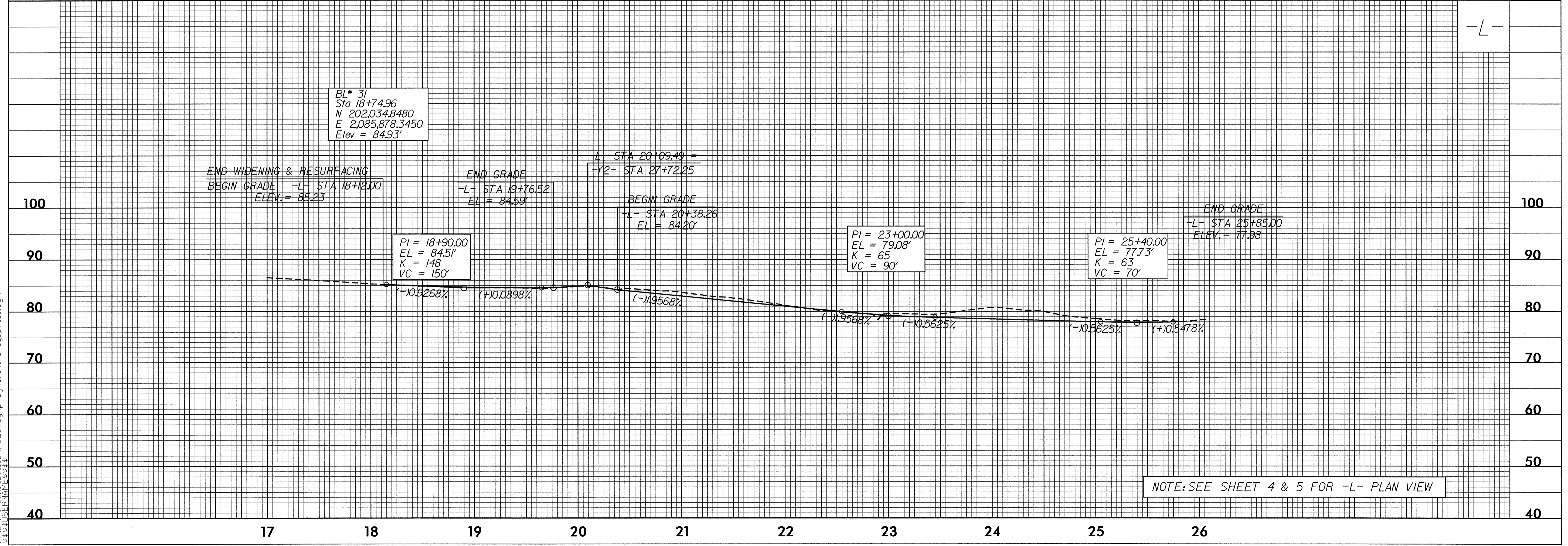
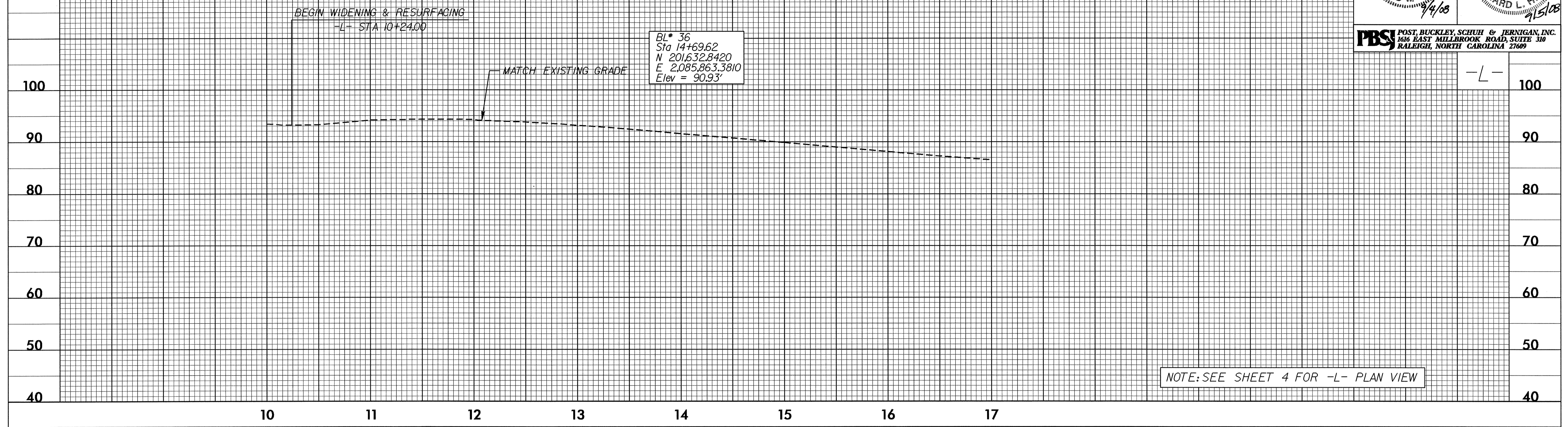
NOTE: FOR -Y3- PROFILE SEE SHEET 10 & 11
 FOR INTERSECTION AND ISLAND DETAIL
 SEE SHEET 2F

REVISIONS

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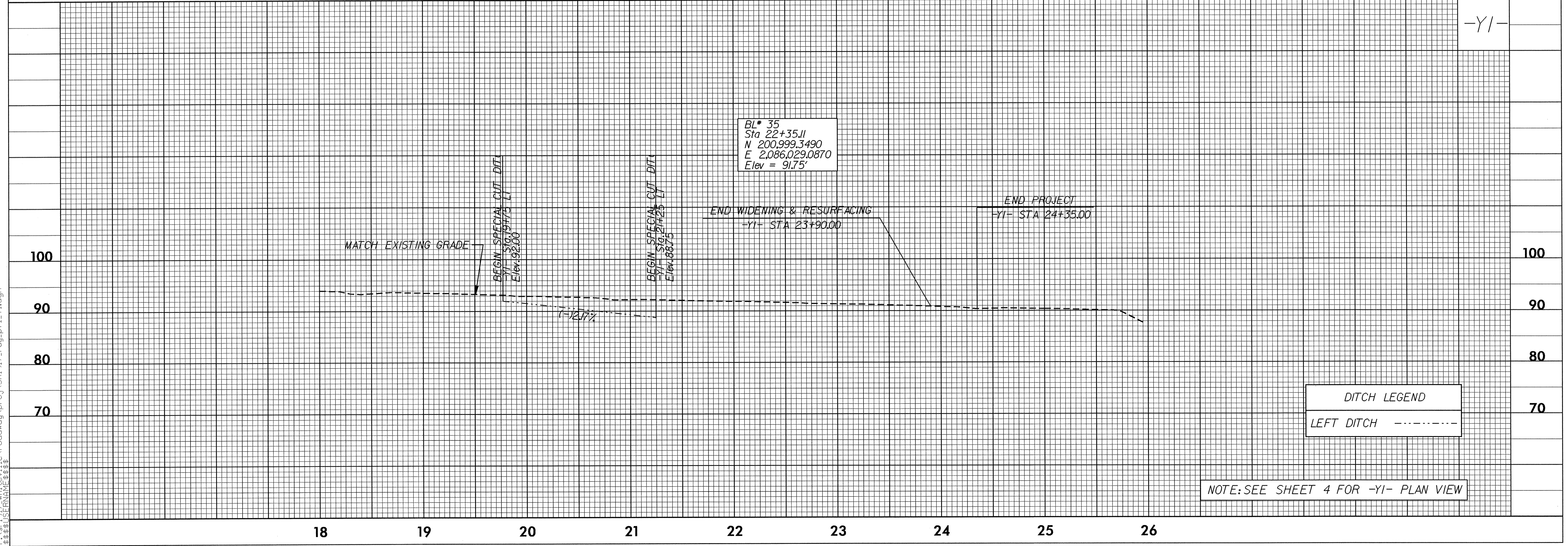
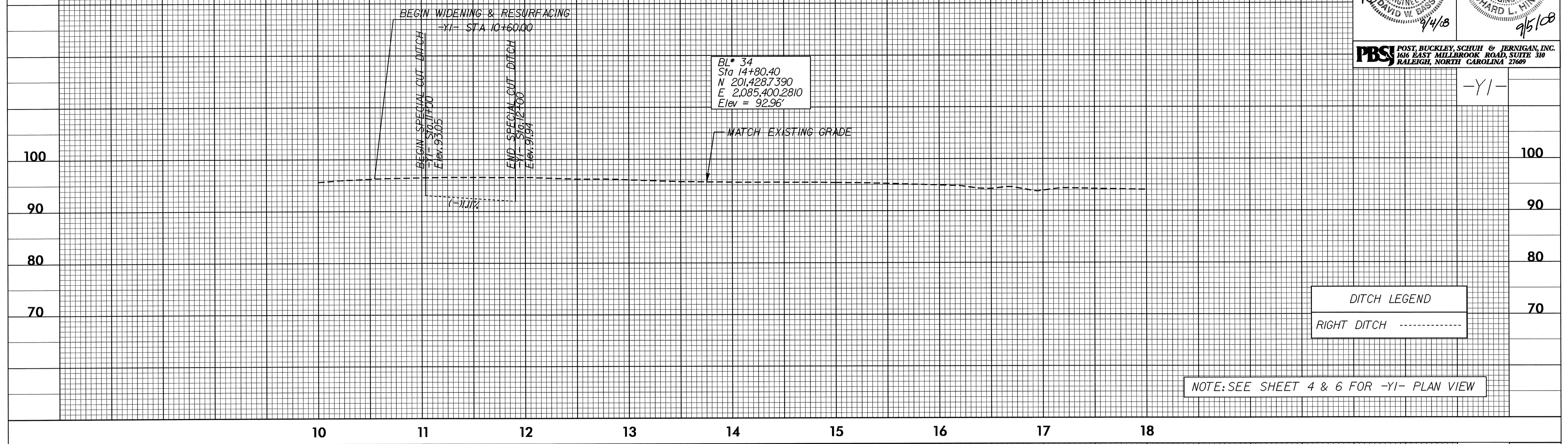
PROJECT REFERENCE NO. 37972	SHEET NO. 8
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL DAVID W. BASS 9/4/08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL RICHARD L. HINER 9/5/08
PBS POST, BUCKLEY, SCHUH & JERNIGAN, INC. 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609	



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5/28/99

PROJECT REFERENCE NO. 37972	SHEET NO. 9
ROADWAY DESIGN ENGINEER DAVID W. BASS NORTH CAROLINA PROFESSIONAL SEAL 4/4/08	HYDRAULICS ENGINEER RICHARD L. HINER NORTH CAROLINA PROFESSIONAL SEAL 9/5/08
PBS POST, BUCKLEY, SCHUH & JERNIGAN, INC. 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609	

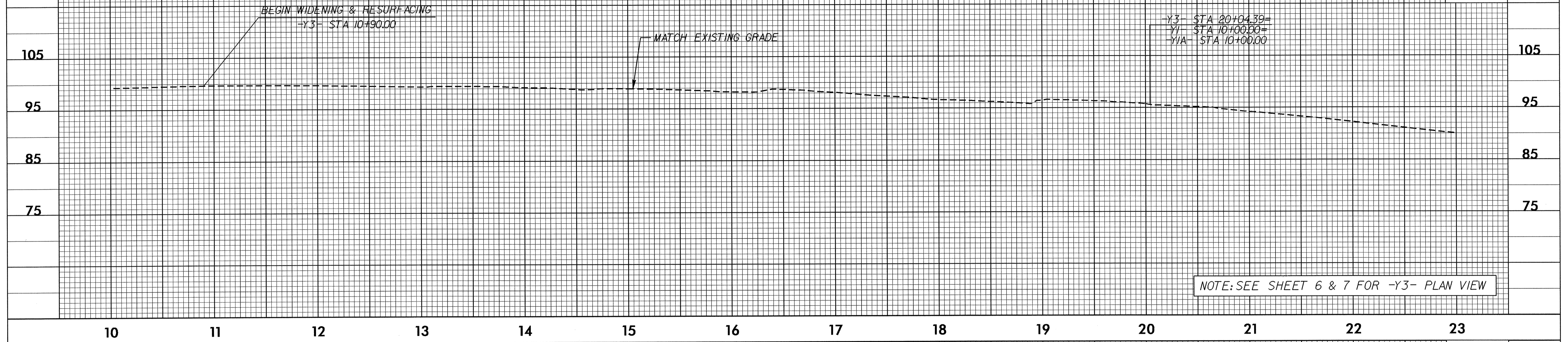


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5/28/99

PROJECT REFERENCE NO. 37972	SHEET NO. 10
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL DAVID W. BASS 9/4/08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL RICHARD L. FINER 9/5/08
PBS POST, BUCKLEY, SCHUH & JERNIGAN, INC. 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609	

-Y3-

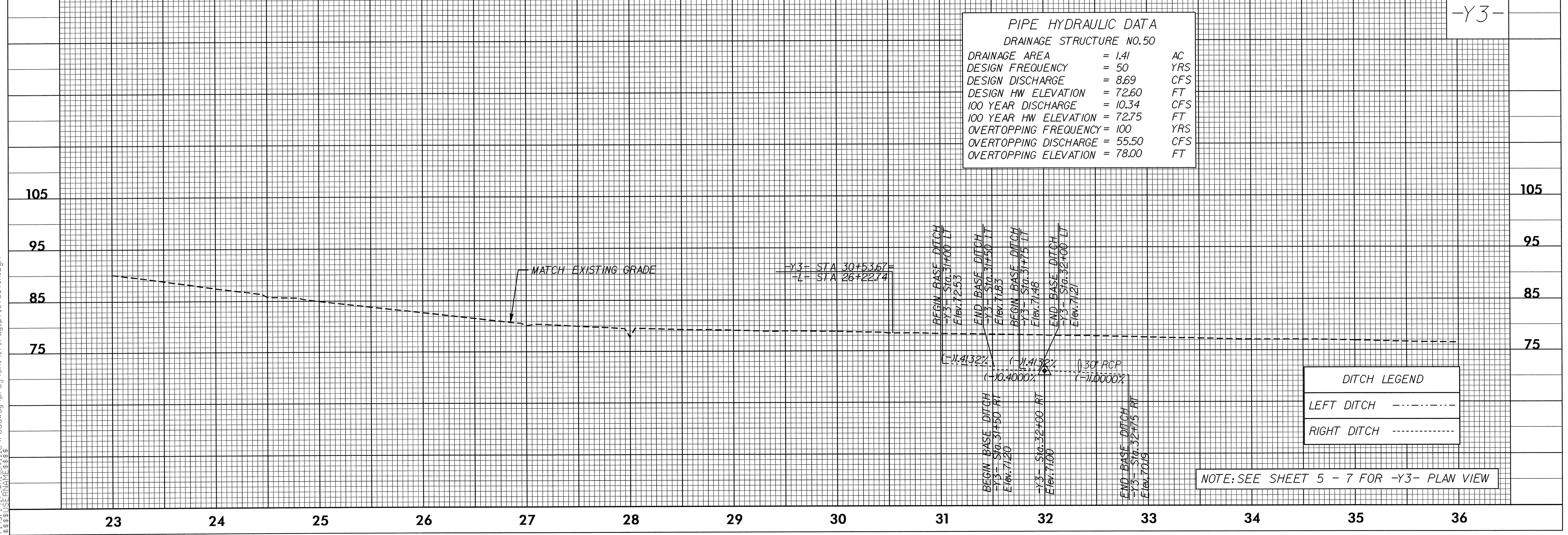


-Y3- STA 20+04.39=
 -Y1- STA 10+00.00=
 -Y1A- STA 10+00.00=

105
95
85
75

NOTE: SEE SHEET 6 & 7 FOR -Y3- PLAN VIEW

-Y3-



PIPE HYDRAULIC DATA		
DRAINAGE STRUCTURE NO.50		
DRAINAGE AREA	= 1.41	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 8.69	CFS
DESIGN HW ELEVATION	= 72.60	FT
100 YEAR DISCHARGE	= 10.34	CFS
100 YEAR HW ELEVATION	= 72.75	FT
OVERTOPPING FREQUENCY	= 100	YRS
OVERTOPPING DISCHARGE	= 55.50	CFS
OVERTOPPING ELEVATION	= 78.00	FT

BEGIN BASE DITCH
 -Y3- STA 31+00.00 LT
 Elev. 72.53

END BASE DITCH
 -Y3- STA 31+50.00 LT
 Elev. 71.85

BEGIN BASE DITCH
 -Y3- STA 31+75.00 LT
 Elev. 71.48

END BASE DITCH
 -Y3- STA 32+00.00 LT
 Elev. 71.21

BEGIN BASE DITCH
 -Y3- STA 31+50.00 RT
 Elev. 71.20

-Y3- STA 32+00.00 RT
 Elev. 71.00

END BASE DITCH
 -Y3- STA 32+75.00 RT
 Elev. 70.18

Grades: (-)1.4132%, (-)1.4132%, (-)0.4000%, (-)1.0000%

(30" RCP)

DITCH LEGEND	
LEFT DITCH	-----
RIGHT DITCH	-----

NOTE: SEE SHEET 5 - 7 FOR -Y3- PLAN VIEW

105
95
85
75

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5/28/09

PROJECT REFERENCE NO. 37972	SHEET NO. 11
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL DAVID W. BASS 4/4/08	HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL RICHARD L. HINER 4/15/08
PBS POST, BUCKLEY, SCHUH & JERNIGAN, INC. 1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609	

-Y3-

105

95

85

75

36

37

38

39

40

41

42

MATCH EXISTING GRADE

END WIDENING & RESURFACING
-Y3- STA. 40+75.00

NOTE: SEE SHEET 7 FOR -Y3- PLAN VIEW

-Y1A-

105

95

85

75

10

11

12

13

-Y1A- STA 10+00.00 =
-Y1- STA 10+00.00 =
-Y3- STA 20+04.39

MATCH EXISTING GRADE

END WIDENING & RESURFACING
STA. 13+00.00

NOTE: SEE SHEET 6 FOR -Y1A- PLAN VIEW

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\$\$\$\$\$USERNAME\$\$\$\$\$