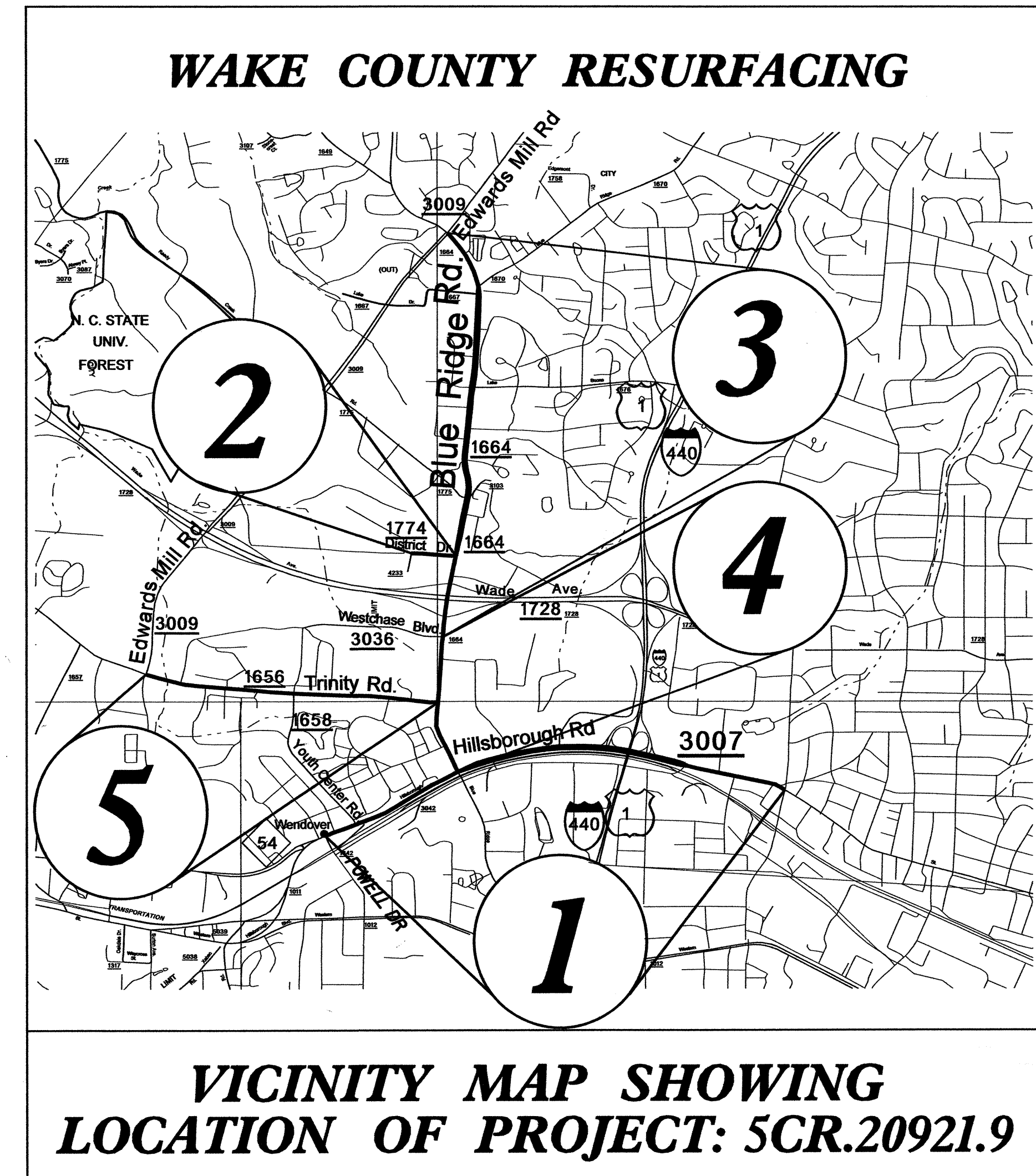
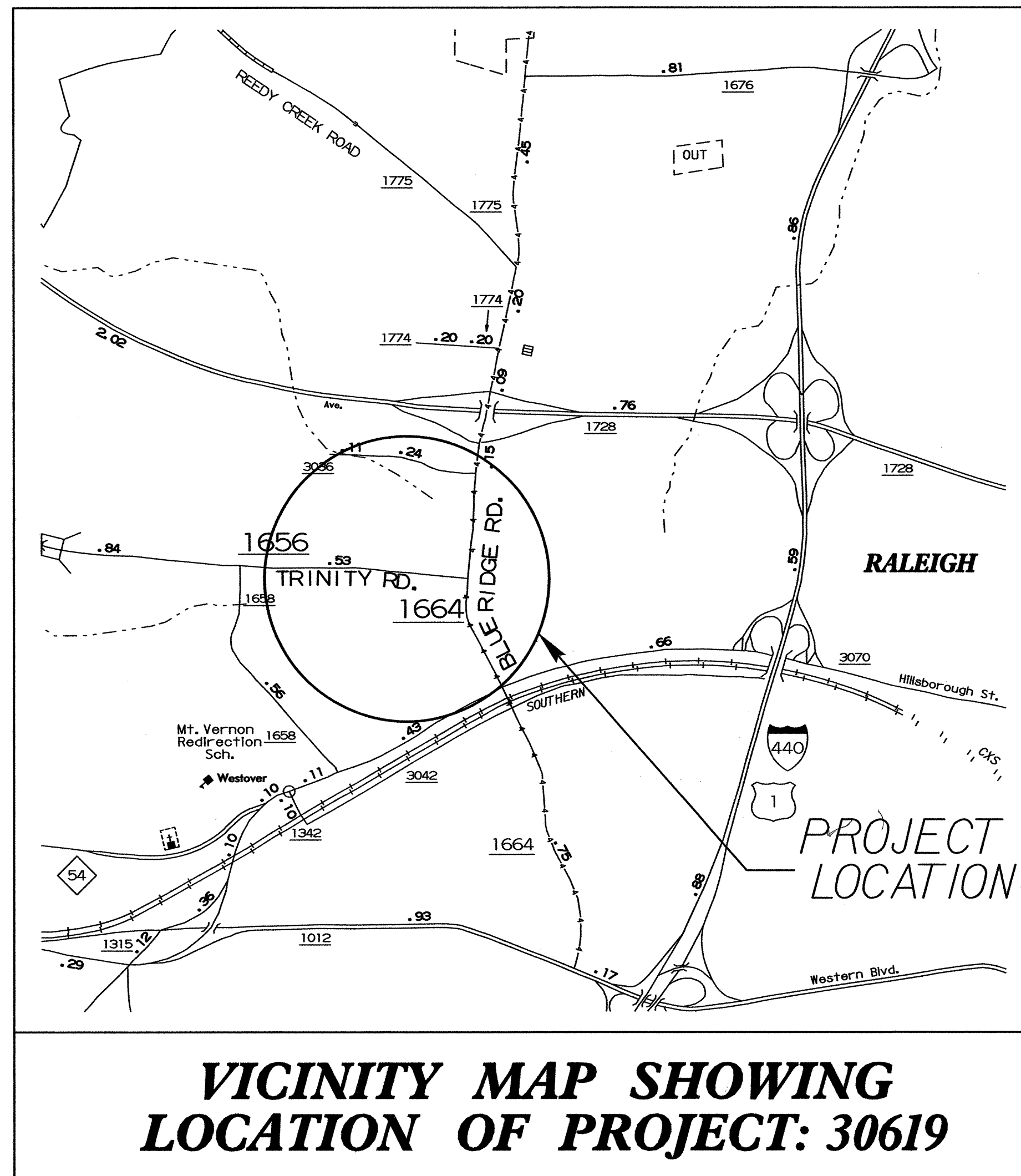


STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
WAKE COUNTY


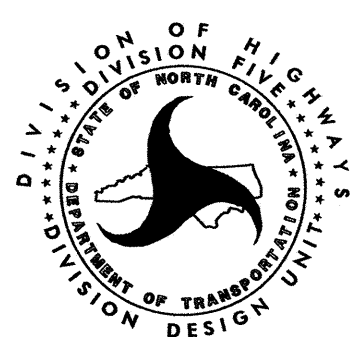
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	30619, etc.	1	7
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
30619			
31294			
5CR.20921.9			

**LOCATION: SR 1656 (TRINITY ROAD) AT SR 1664 (BLUE RIDGE RD), AND RESURFACING OF VARIOUS SECONDARY ROADS.
 TYPE OF WORK: DRAINAGE, GRADING, PAVING, EROSION CONTROL, SIGNALS, UTILITIES AND RESURFACING.**



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PROJECT: 30619, 31294, 5CR.20921.9

<p>GRAPHIC SCALES</p> <p>SEE PROJECT TITLE SHEETS</p>	<p>DESIGN DATA</p> <p>SEE PROJECT TITLE SHEETS</p>	<p>PROJECT LENGTH</p> <p>LENGTH ROADWAY PROJECT 30619 = 0.78 MILES</p> <p>LENGTH ROADWAY PROJECT 5CR.20921.9 = 5.24 MILES</p>	<p>Prepared In the Office of: DIVISION OF HIGHWAYS 2612 N. Duke St., Durham, NC 27704</p> <hr/> <p>2006 STANDARD SPECIFICATIONS</p> <p>SEE PROJECT TITLE SHEETS</p> <hr/> <p>BEN UPSHAW, P.E. PROJECT ENGINEER</p> <hr/> <p>MIKE BRANDON PROJECT DESIGN ENGINEER</p>	<p>DIVISION DESIGN ENGINEER</p>  <p>SIGNATURE: <i>Ben Upshaw</i> 10/19/06 P.E.</p>	<p>DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA</p> <p>FIFTH DIVISION J. G. Nance, P.E. DIVISION ENGINEER</p> 
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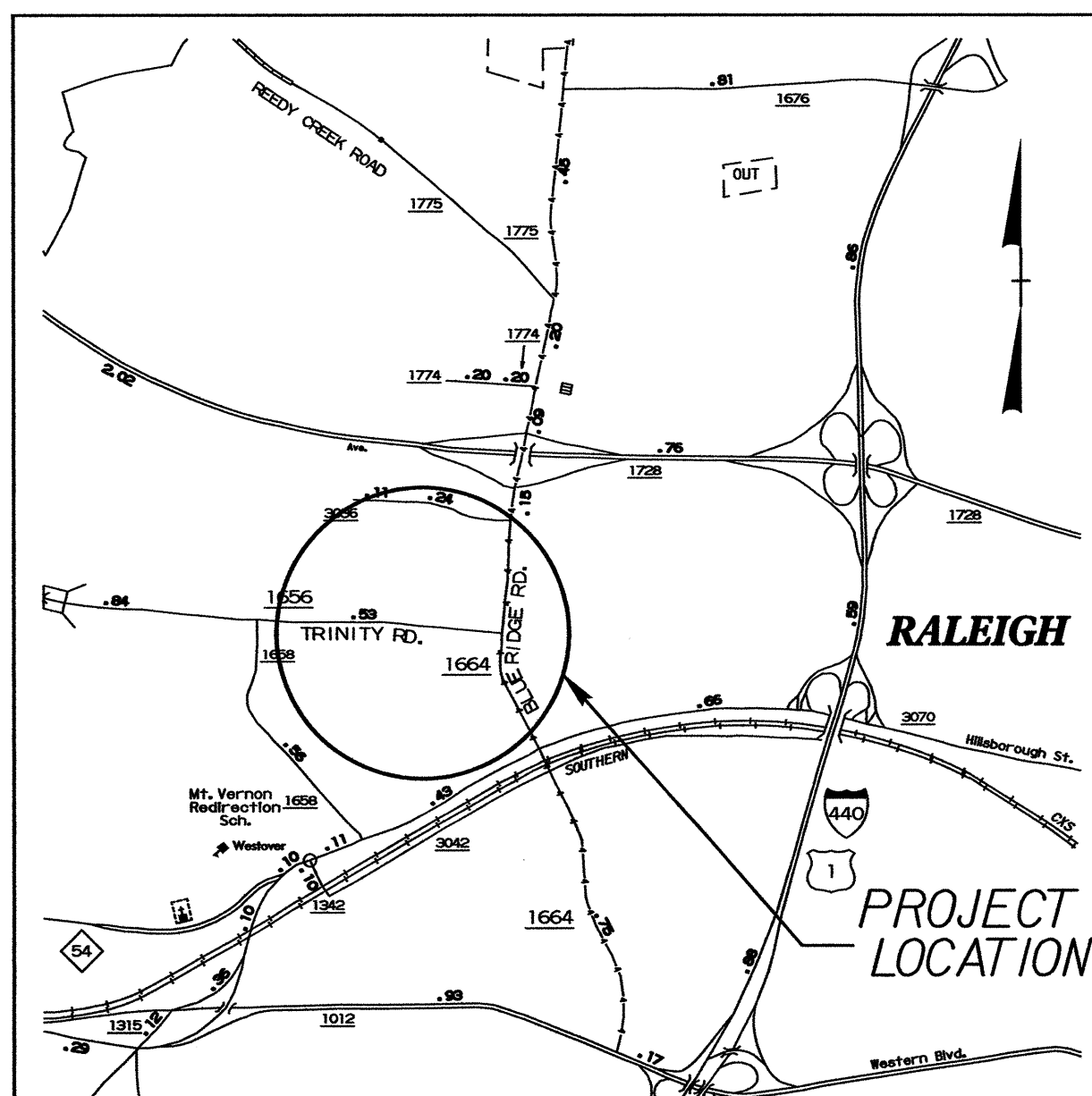
STATE OF NORTH CAROLINA

DIVISION OF HIGHWAYS

WAKE COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	30619, 31294	1	5
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
30619, 31294	N /A	PE, CONST.	

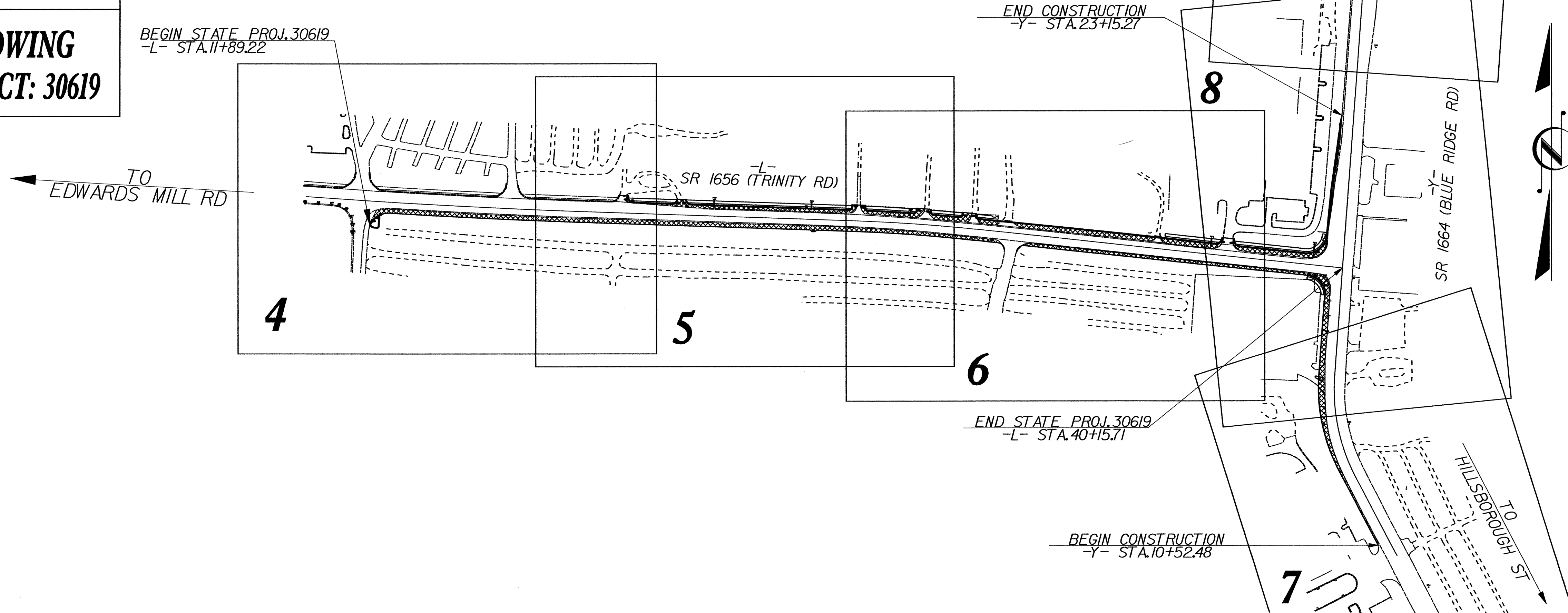
See Sheet 1-B For Conventional Symbols



**VICINITY MAP SHOWING
LOCATION OF PROJECT: 30619**

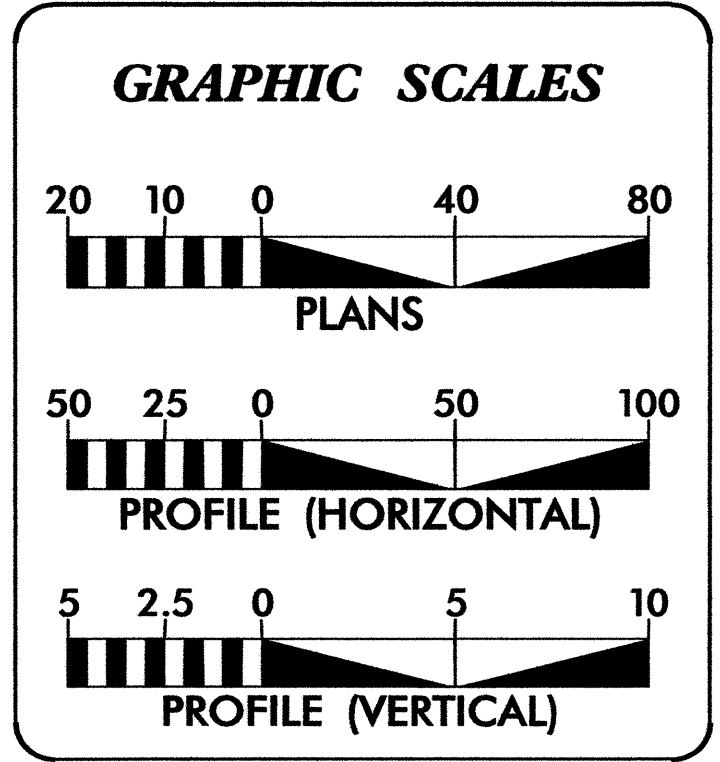
**LOCATION: SR 1656 (TRINITY RD) FROM SR 1658 (YOUTH CENTER RD)
TO SR 1664 (BLUE RIDGE RD) AND BOTH APPROACHES ON
SR 1664 (BLUE RIDGE RD)**

**TYPE OF WORK: DRAINAGE, GRADING, PAVING, EROSION CONTROL,
SIGNALS, AND UTILITIES.**



PROJECT: 30619, 31294

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jpa



DESIGN DATA

ADT 2006 =	10,750
ADT 2026 =	19,500
D =	2 %
T =	1 %
V =	45 MPH

PROJECT LENGTH

Length Roadway Project 30619 =	0.78 Miles
Total Length Project 30619 =	0.78 Miles

Prepared In the Office of:
DIVISION OF HIGHWAYS
2612 N. Duke St., Durham, NC 27704

2006 STANDARD SPECIFICATIONS

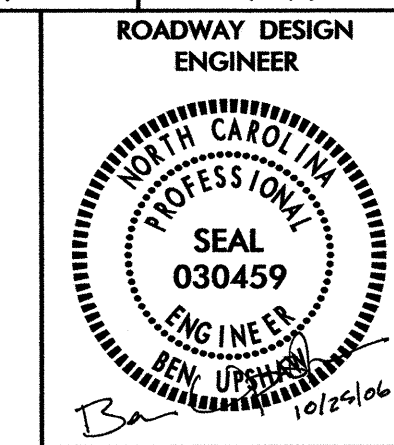
RIGHT OF WAY DATE: JANUARY 6, 2004	BEN UPSHAW, P.E. PROJECT ENGINEER
LETTING DATE: DECEMBER 19, 2006	MIKE BRANDON PROJECT DESIGN ENGINEER

DIVISION DESIGN ENGINEER

SIGNATURE: *Ben Upshaw* 10/19/06 P.E.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA**

FIFTH DIVISION
J. G. Nance, P.E.
DIVISION ENGINEER



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET - BOTH PARTS
1	PART I TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2A THRU 2F	PAVEMENT SCHEDULE, TYPICAL SECTIONS, WEDGING DETAILS, AND DRAINAGE STRUCTURE DETAILS
3	SUMMARY OF QUANTITIES
3A THRU 3B	DRAINAGE SUMMARY, SUMMARY OF RIGHT OF WAY, SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, AND CONTROL POINT DATA
4 THRU 9	PLAN SHEETS
10 THRU 11	PROFILE SHEETS
TCP-1 THRU TCP-3	TRAFFIC CONTROL PLANS
PM-1 THRU PM-5	PAVEMENT MARKING PLANS
EC-1 THRU EC-11	EROSION CONTROL PLANS
SIG-1 THRU SIG-2	SIGNAL PLANS
U-1 THRU U-7	UTILITIES PLANS
X-0 THRU X-20	CROSS-SECTIONS
PART II (SCR. 20921.9)	
1	COUNTY MAP
2 THRU 4	TYPICAL SECTIONS
5	SUMMARY OF QUANTITIES, THERMO. AND PAINT QUANTITIES

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

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

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.

GUARDRAIL:
THE GUARDRAIL LOCATIONS SHOWN ON THE PLANS MAY BE ADJUSTED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHOULD CONSULT WITH THE ENGINEER PRIOR TO ORDERING GUARDRAIL MATERIAL.

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, CITY OF RALEIGH, TIME WARNER CABLEVISION, BELLSOUTH TELECOMMUNICATIONS, ITC DELTACOM, AT&T, AND PUBLIC SERVICE COMPANY OF NORTH CAROLINA.

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

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

2006 ROADWAY STANDARD DRAWINGS EFF. 07-18-06

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
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
840.34	Traffic Bearing Junction Box - for Use with Pipes 42" and Under
840.45	Precast Drainage Structure
840.46	Traffic Bearing Precast Drainage Structure
840.54	Manhole Frame and Cover
840.66	Drainage Structure Steps
840.72	Pipe Collar
846.01	Concrete Curb, Gutter and Curb & Gutter
848.01	Concrete Sidewalk
848.02	Driveway Turnout - Radius Type
848.04	Street Turnout
848.05	Wheelchair Ramp - Curb Cut
848.06	Wheelchair Ramp - Retrofitting of Existing Curb
852.01	Concrete Islands
862.01	Guardrail Placement
862.02	Guardrail Installation

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 AT DISTRICT

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

*S.U.E = SUBSURFACE UTILITY ENGINEER

CONVENTIONAL SYMBOLS

ROADS & RELATED ITEMS

Table listing symbols for roads and related items: Edge of Pavement, Curb, Prop. Slope Stakes Cut, Prop. Slope Stakes Fill, Prop. Woven Wire Fence, Prop. Chain Link Fence, Prop. Barbed Wire Fence, Prop. Wheelchair Ramp, Exist. Guardrail, Prop. Guardrail, Equality Symbol, Pavement Removal.

RIGHT OF WAY

Table listing symbols for 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 RW Marker (Iron Pin & Cap), Prop. Right of Way Line with Proposed (Concrete or Granite) RW Marker, Exist. Control of Access Line, Prop. Control of Access Line, Exist. Easement Line, Prop. Temp. Construction Easement Line, Prop. Temp. Drainage Easement Line, Prop. Perm. Drainage Easement Line.

HYDROLOGY

Table listing symbols for hydrology: Stream or Body of Water, Flow Arrow, Disappearing Stream, Spring, Swamp Marsh, Shoreline, Falls, Rapids, Prop Lateral, Tail, Head Ditches.

STRUCTURES

Table listing symbols for structures: MAJOR Bridge, Tunnel, or Box Culvert, Bridge Wing Wall, Head Wall and End Wall.

Table listing symbols for minor structures: MINOR Head & End Wall, Pipe Culvert, Footbridge, Drainage Boxes, Paved Ditch Gutter.

UTILITIES

Table listing symbols for 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, Cable TV Pedestal, Hydrant, Satellite Dish, Exist. Water Valve, Sewer Clean Out, Power Manhole, Telephone Booth, 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.

Table listing symbols for utilities (continued): Recorded Water Line, Designated Water Line (S.U.E.*), Sanitary Sewer, Recorded Sanitary Sewer Force Main, Designated Sanitary Sewer Force Main(S.U.E.*), Recorded Gas Line, Designated Gas Line (S.U.E.*), Storm Sewer, Recorded Power Line, Designated Power Line (S.U.E.*), Recorded Telephone Cable, Designated Telephone Cable (S.U.E.*), Recorded U/G Telephone Conduit, Designated U/G Telephone Conduit (S.U.E.*), Unknown Utility (S.U.E.*), Recorded Television Cable, Designated Television Cable (S.U.E.*), Recorded Fiber Optics Cable, Designated Fiber Optics Cable (S.U.E.*), Exist. Water Meter, U/G Test Hole (S.U.E.*), Abandoned According to U/G Record, End of Information.

BOUNDARIES & PROPERTIES

Table listing symbols for boundaries and 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, Existing Wetland Boundaries, Proposed Wetland Boundaries, Existing Endangered Animal Boundaries, Existing Endangered Plant Boundaries.

BUILDINGS & OTHER CULTURE

Table listing symbols for buildings and 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

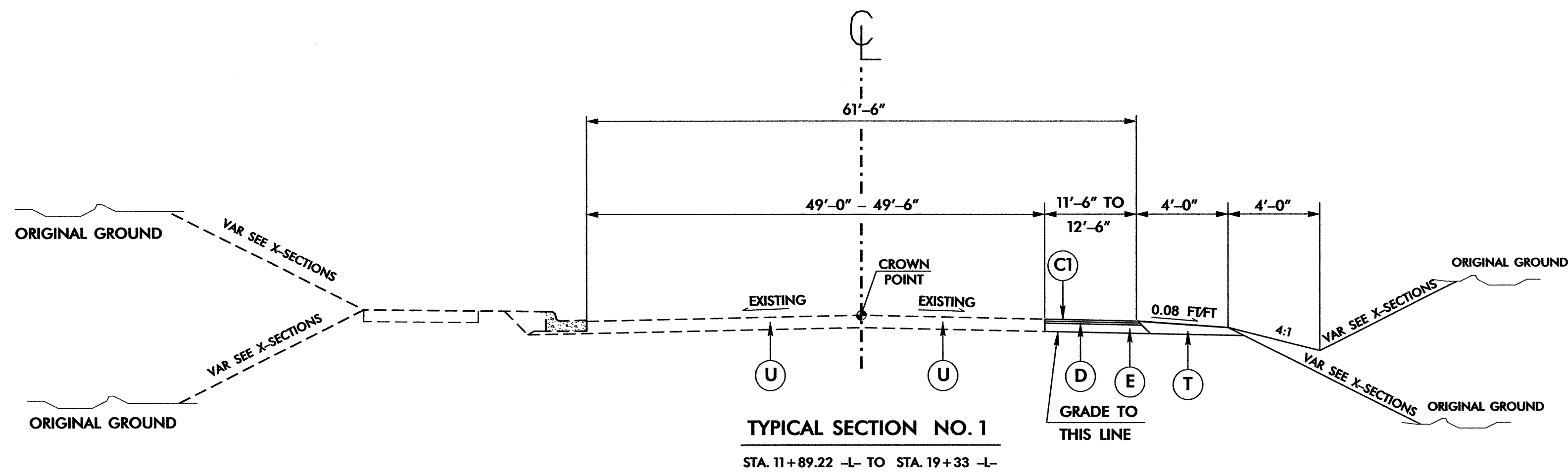
Table listing symbols for topography: Loose Surface, Hard Surface, Change in Road Surface, Curb, Right of Way Symbol, Guard Post, Paved Walk, Bridge, Box Culvert or Tunnel, Ferry, Culvert, Footbridge, Trail, Footpath, Light House.

VEGETATION

Table listing symbols for vegetation: Single Tree, Single Shrub, Hedge, Woods Line, Orchard, Vineyard.

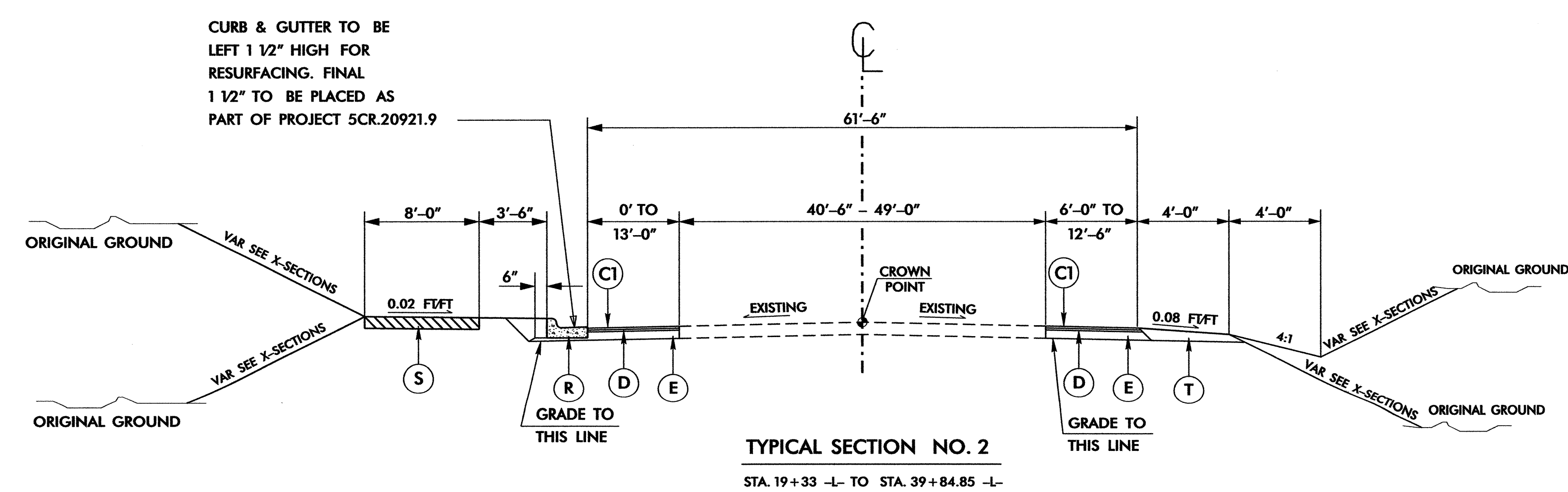
RAILROADS

Table listing symbols for railroads: Standard Gauge, RR Signal Milepost, Switch.



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1½" BIT. CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
D	PROP. APPROX. 4" BIT. CONC. BINDER COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
E	PROP. APPROX. 4" BIT. CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R	2'-6" CONCRETE CURB AND GUTTER.
S	4" CONCRETE SIDEWALK.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

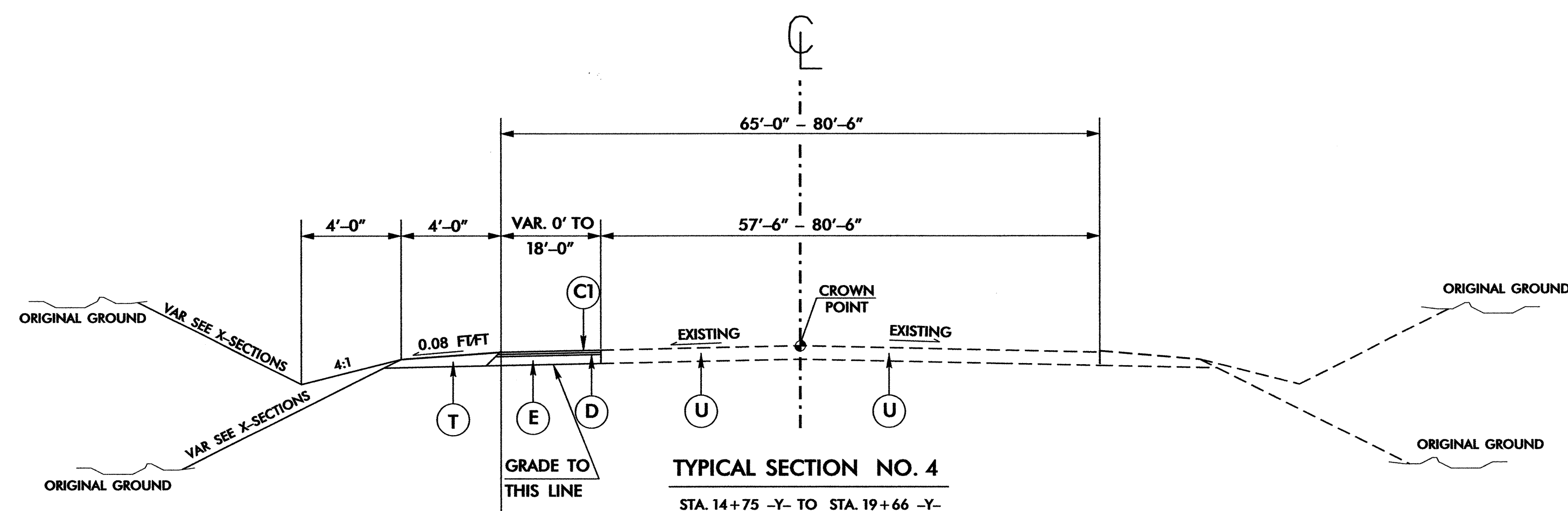
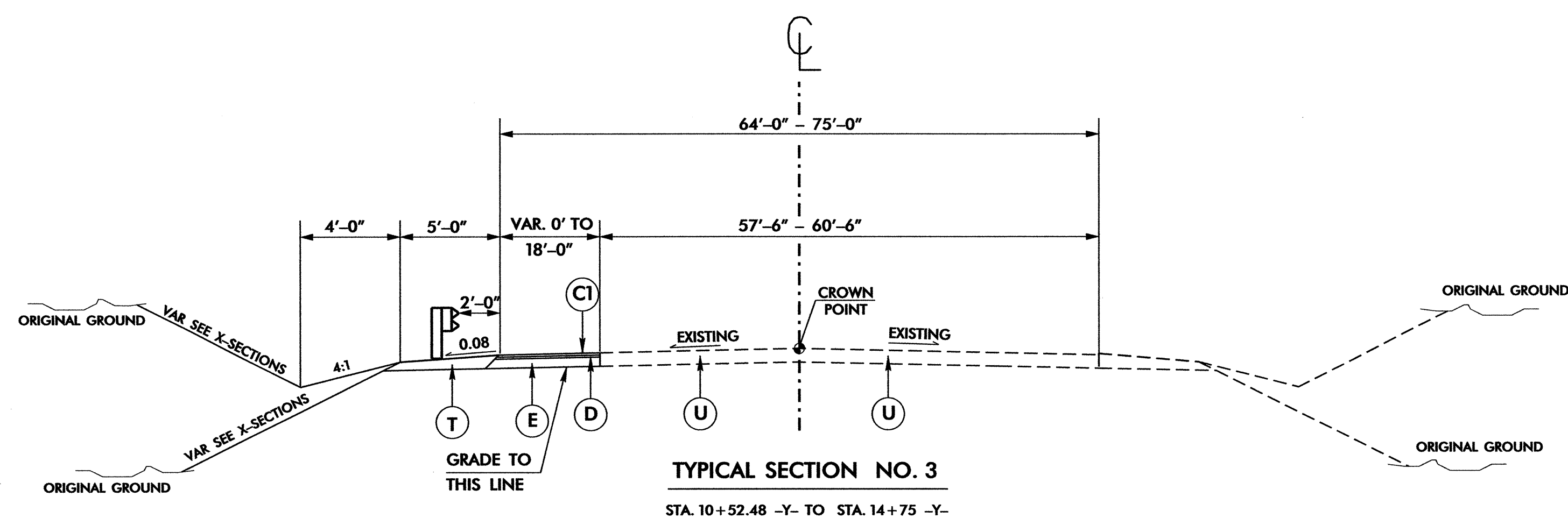
NOTE: PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE.



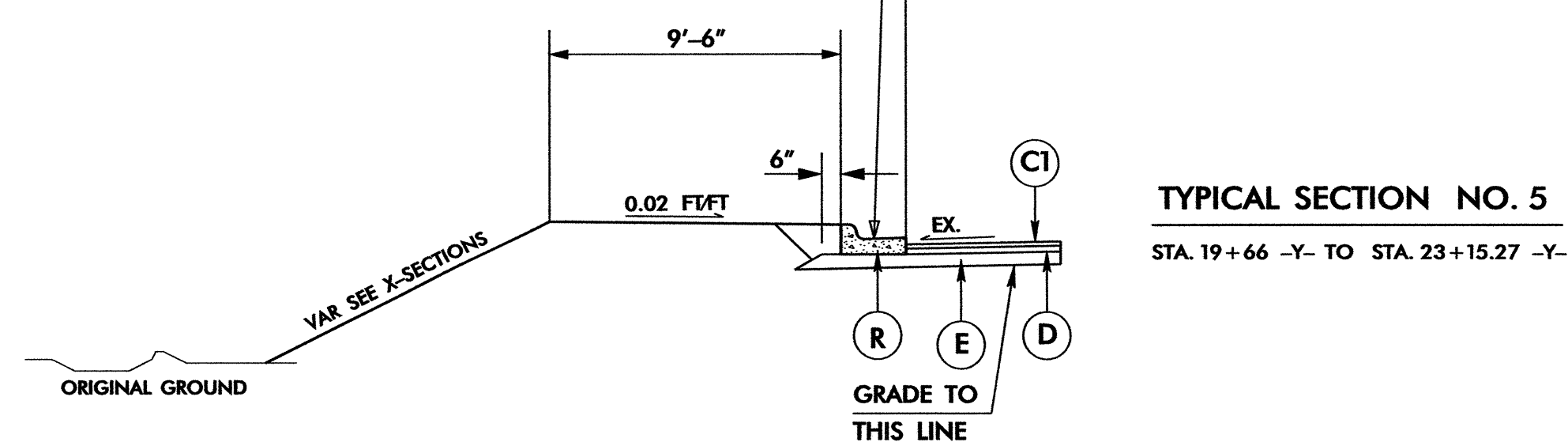
CURB & GUTTER TO BE LEFT 1 1/2" HIGH FOR RESURFACING. FINAL 1 1/2" TO BE PLACED AS PART OF PROJECT 5CR.20921.9

NOT TO SCALE

	WIDEN FOR TURN LANES AT SR 1656 (TRINITY ROAD) AND SR 1664 (BLUE RIDGE ROAD)		
	DIVISION 05 WAKE COUNTY RALEIGH	REVISIONS INT. DATE	
PREPARED BY: M. BRANDON REVIEWED BY: B. UPSHAW REVIEWED BY: B. JONES	N.C. DEPARTMENT of TRANSPORTATION DIVISION of HIGHWAYS DIVISION FIVE DESIGN UNIT		PREPARED BY: M. BRANDON REVIEWED BY: B. UPSHAW REVIEWED BY: B. JONES



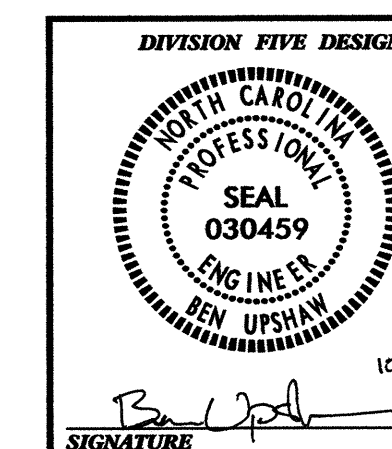
CURB & GUTTER TO BE LEFT 1 1/2" HIGH FOR RESURFACING. FINAL 1 1/2" TO BE PLACED AS PART OF PROJECT 5CR.20921.9



PAVEMENT SCHEDULE	
C1	PROP. APPROX. 1 1/2" BIT. CONC. SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
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E	PROP. APPROX. 4" BIT. CONC. BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
R	2'-6" CONCRETE CURB AND GUTTER.
S	4" CONCRETE SIDEWALK.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

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

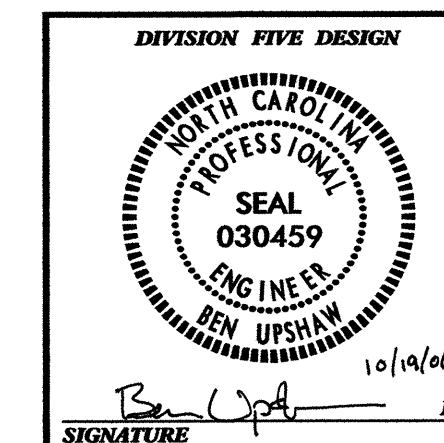
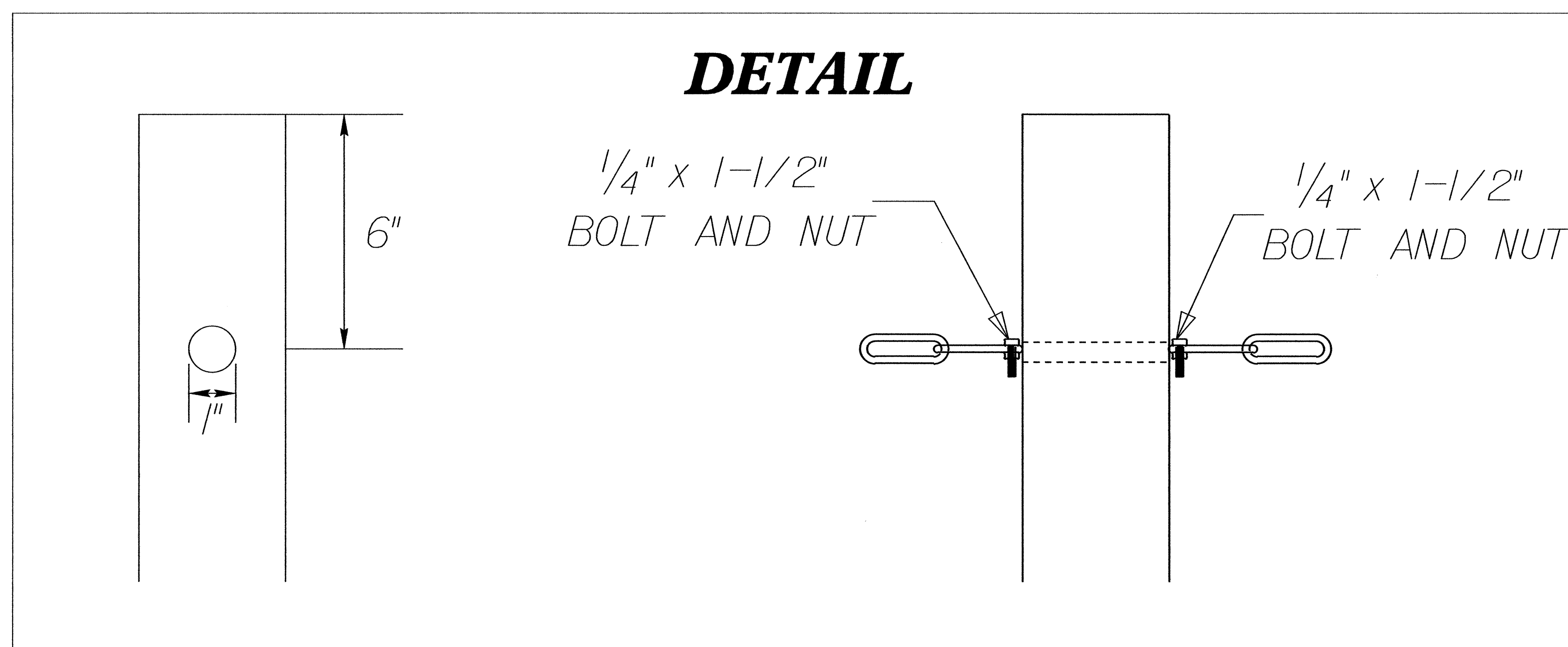
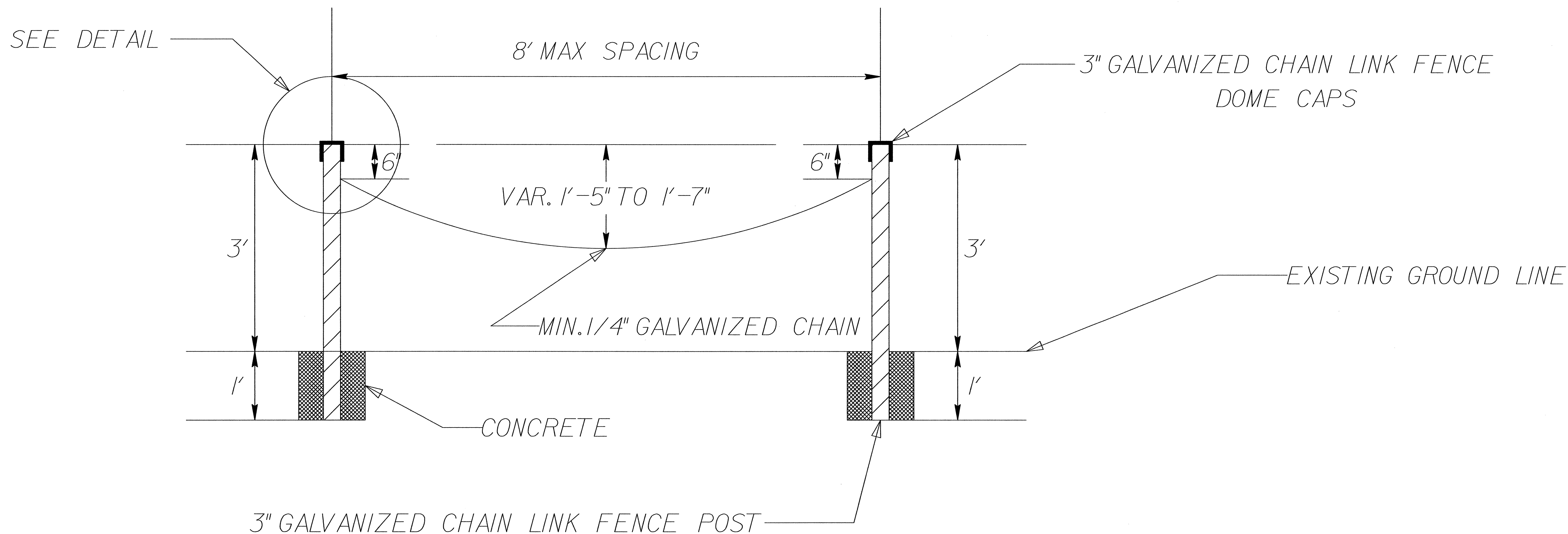
NOT TO SCALE



WIDEN FOR TURN LANES AT SR 1656 (TRINITY ROAD) AND SR 1664 (BLUE RIDGE ROAD)		
DIVISION 05	WAKE COUNTY	RALEIGH
REVISIONS	INIT.	DATE
N.C. DEPARTMENT of TRANSPORTATION DIVISION of HIGHWAYS DIVISION FIVE DESIGN UNIT		

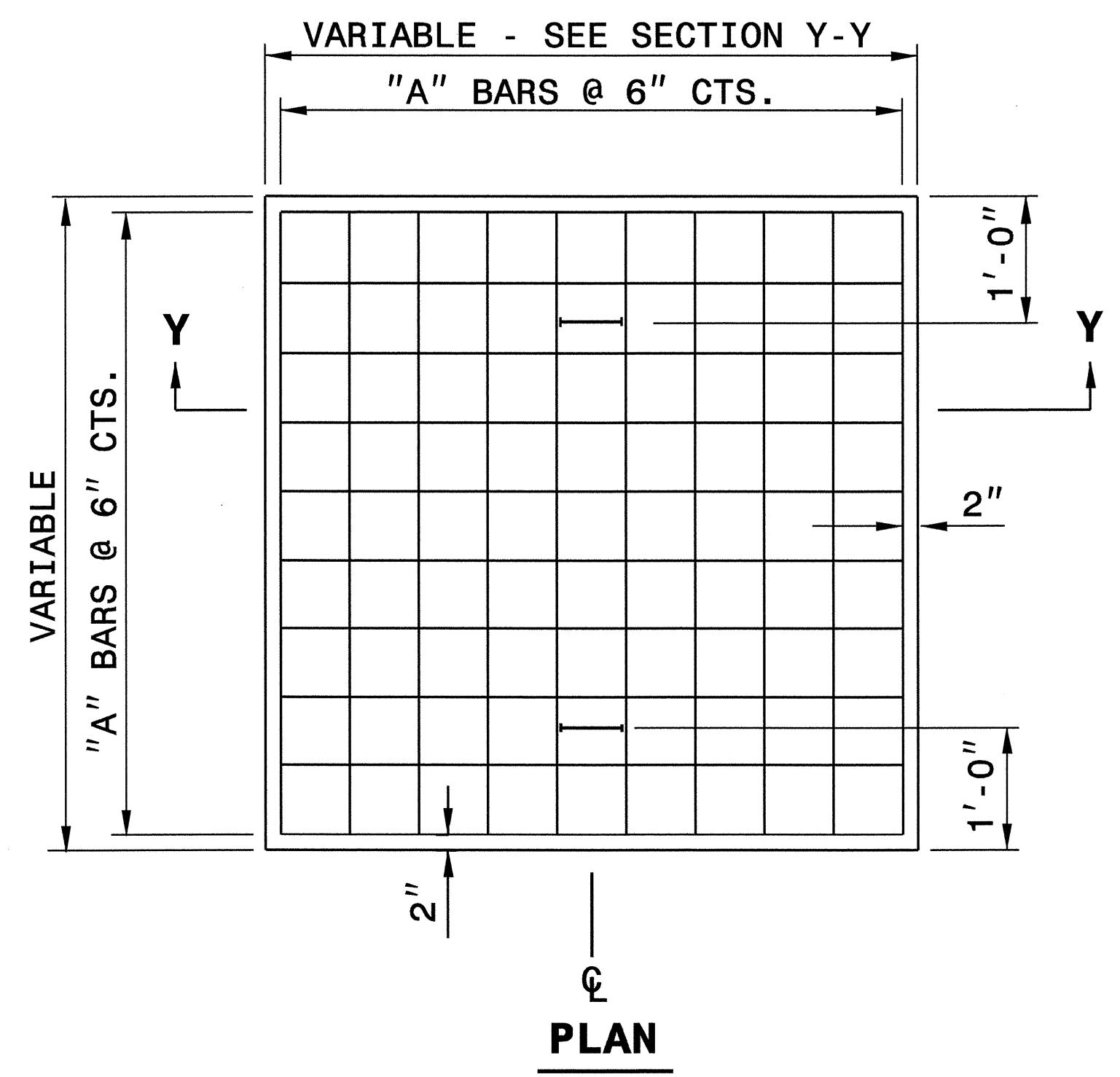
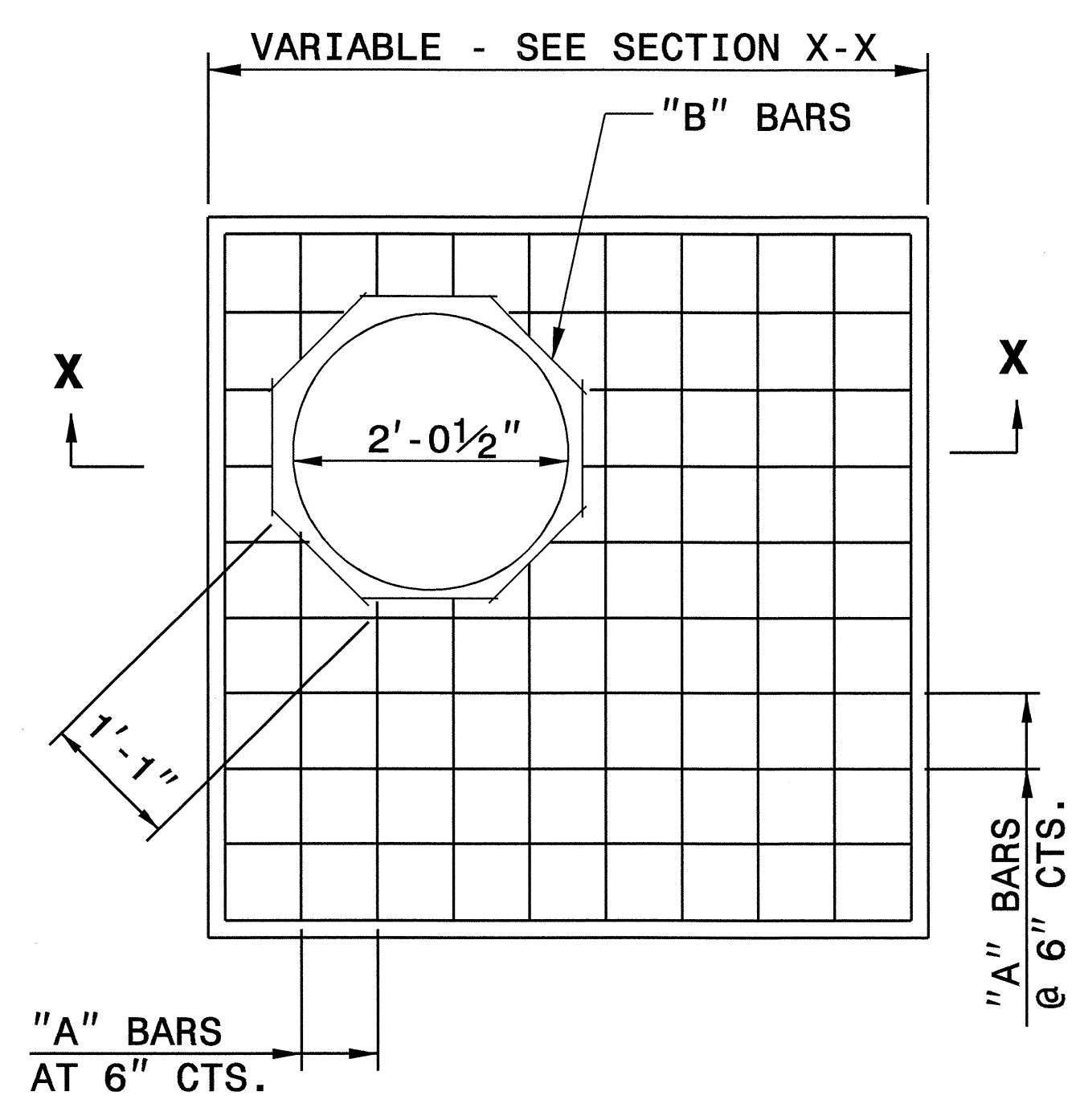
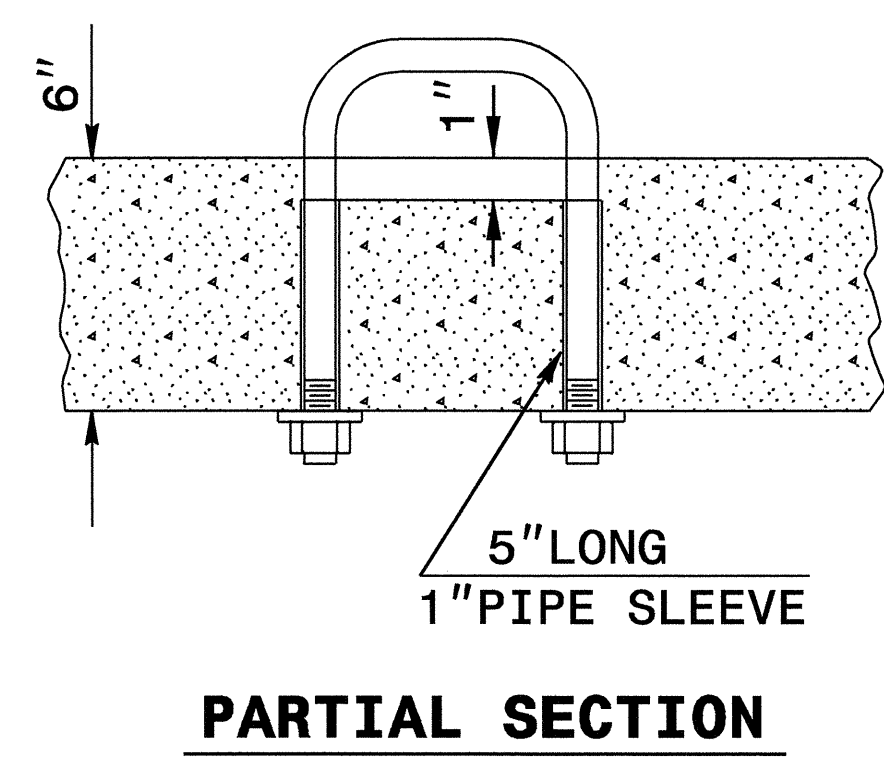
SCALE: NONE	DATE: 3/9/04
PREPARED BY: M. BRANDON	REVIEWED BY: B. UPSHAW
REVIEWED BY: B. JONES	

CHAIN & BOLLARD DETAIL



WIDEN FOR TURN LANES AT SR 1656 (TRINITY ROAD) AND SR 1664 (BLUE RIDGE ROAD)		
DIVISION 05	WAKE COUNTY	RALEIGH
REVISIONS	INT.	DATE
N.C. DEPARTMENT of TRANSPORTATION DIVISION of HIGHWAYS DIVISION FIVE DESIGN UNIT		

SCALE: NONE	DATE: 3/04
PREPARED BY: M. BRANDON	REVIEWED BY: B. UPSHAW
REVIEWED BY: B. JONES	



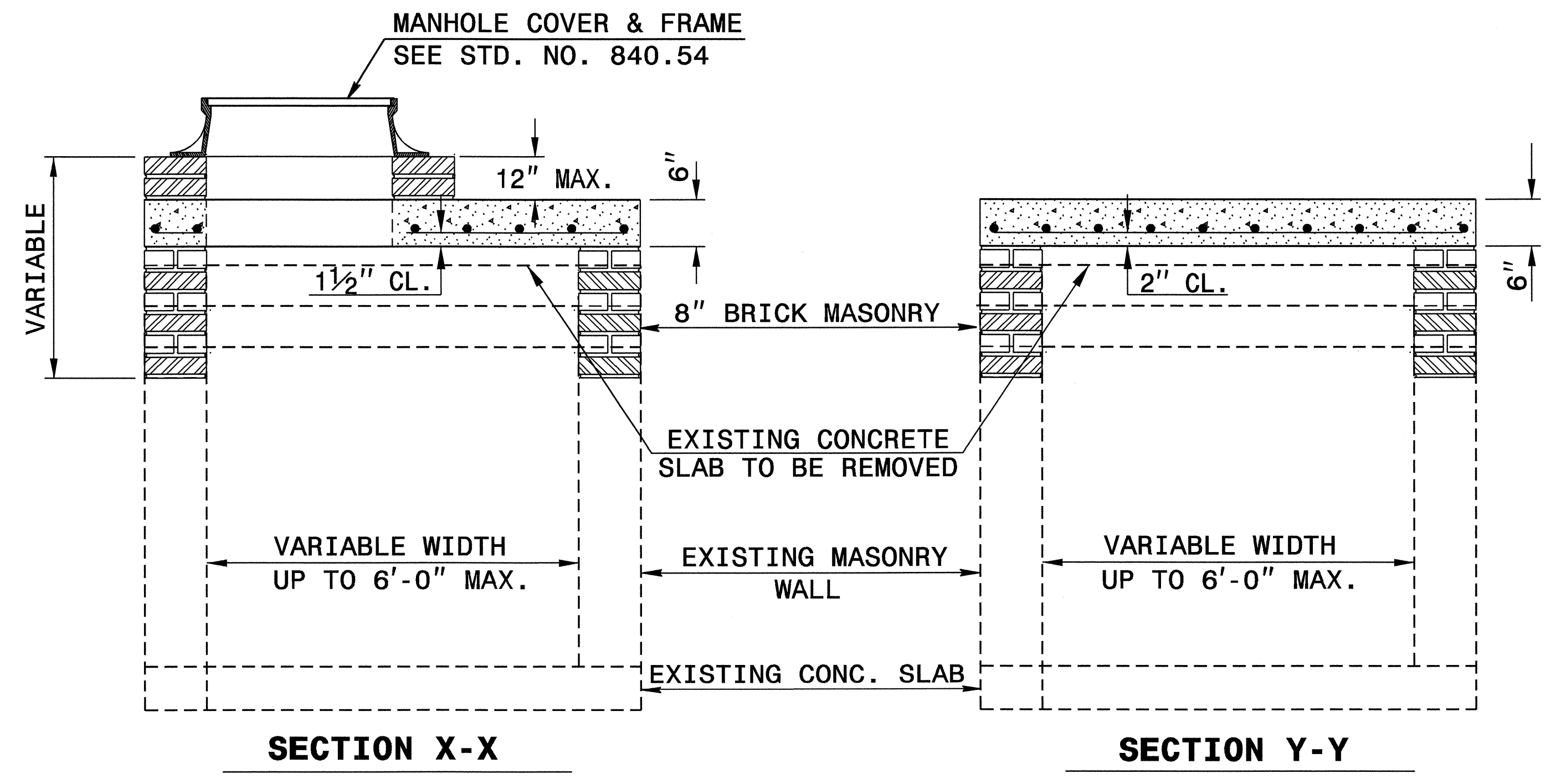
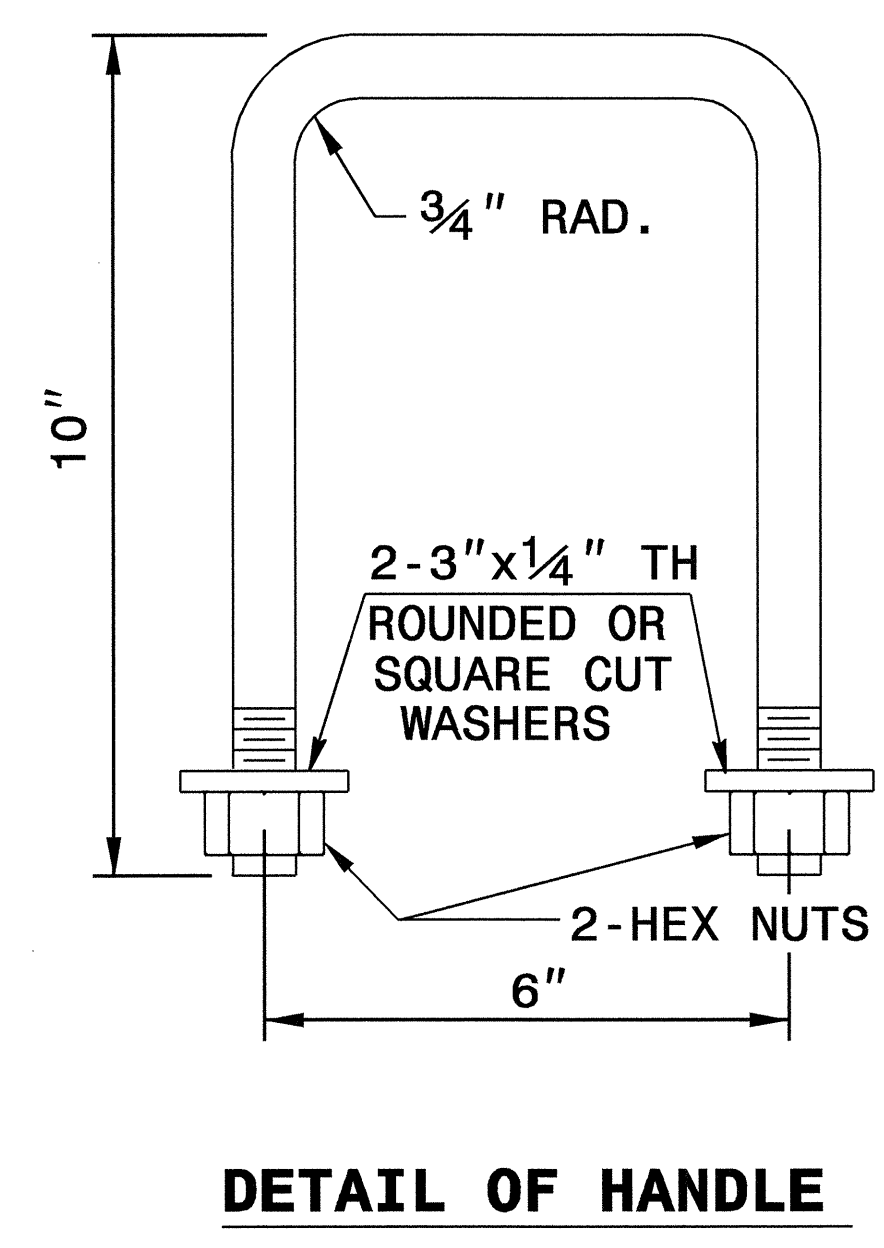
GENERAL NOTES:

CONSTRUCT IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.

FIELD VERIFY THE DIMENSIONS FOR THE EXISTING BOXES

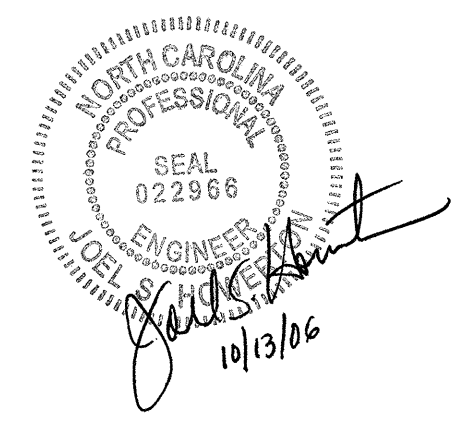
DETAIL INTENDED FOR NON-TRAFFIC BEARING DRAINAGE STRUCTURES.

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.

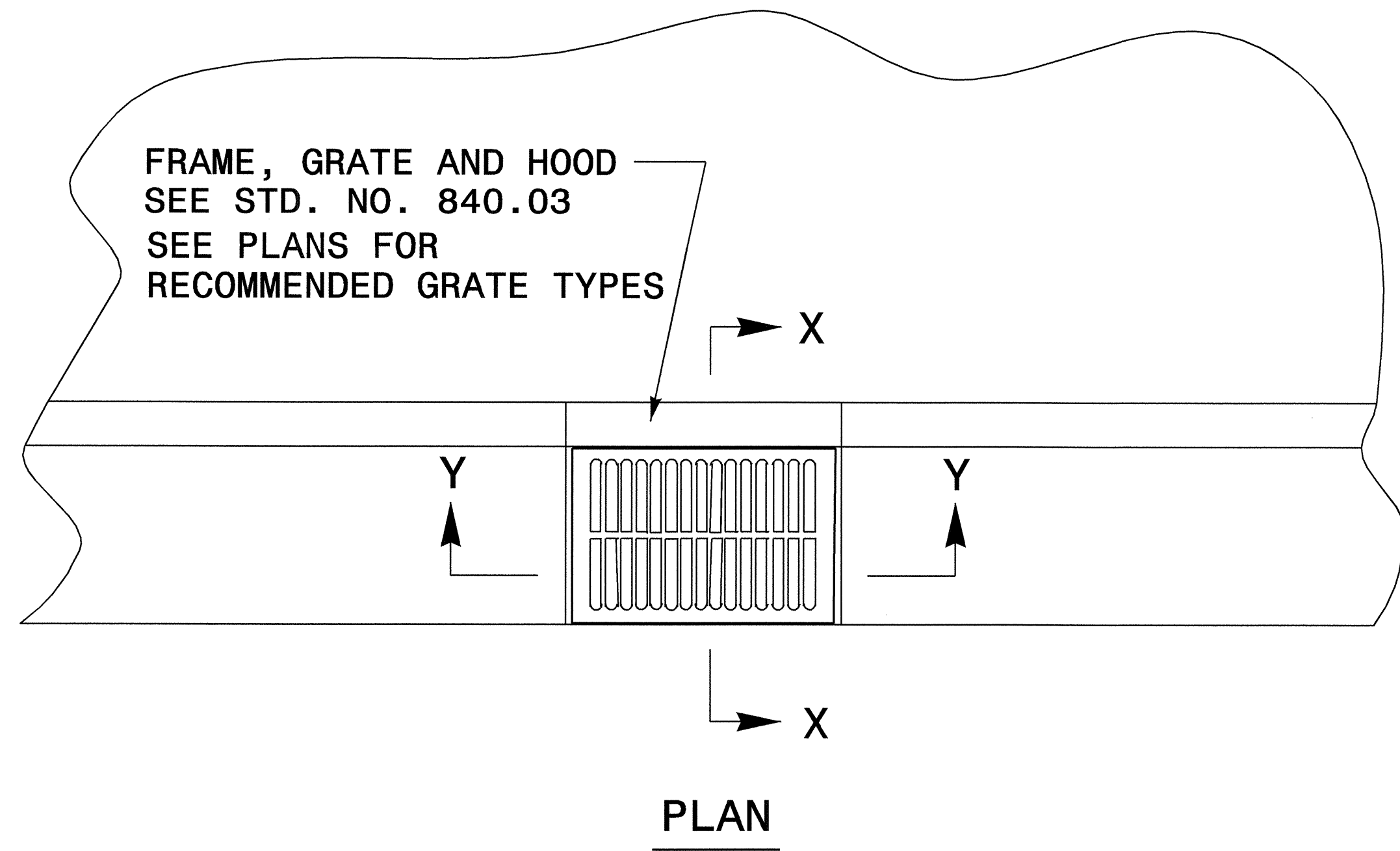
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**PROJECT SERVICES UNIT
 STANDARDS AND SPECIAL DESIGN**
 Office 919-250-4128 FAX 919-250-4119

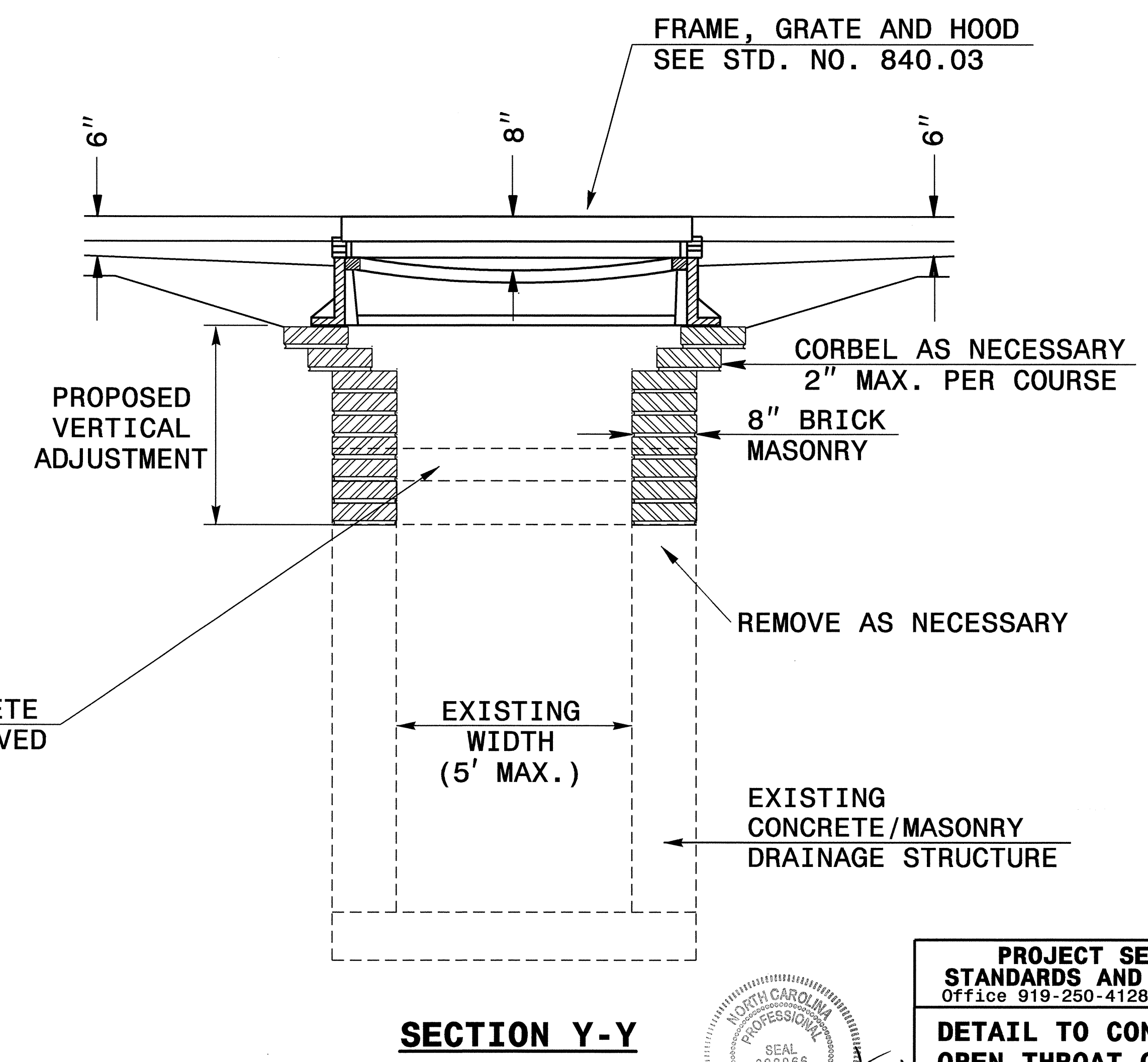
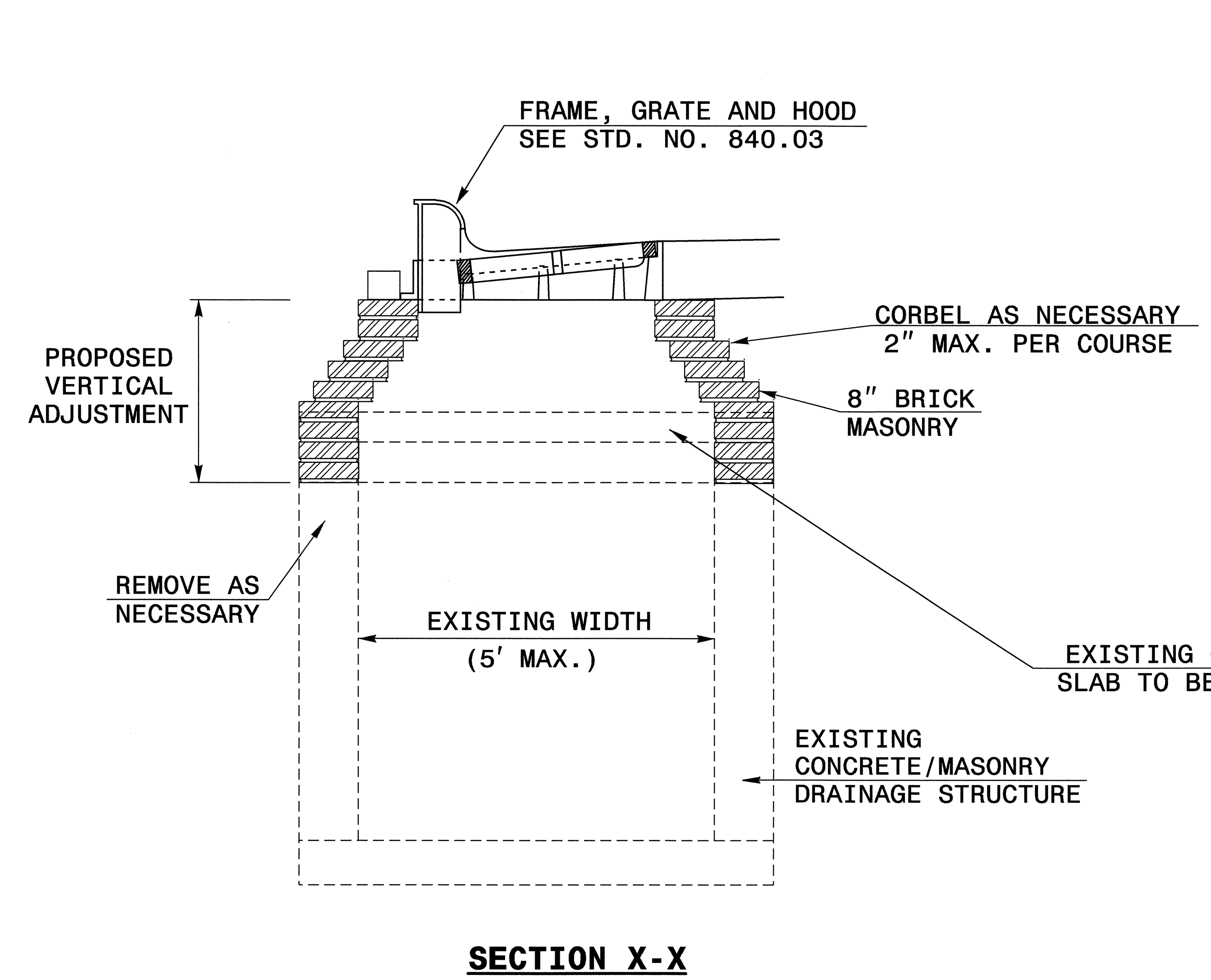
**DETAIL TO CONVERT EXISTING
 OPEN THROAT CATCH BASIN
 TO JUNCTION BOX
 (MANHOLE OPTIONAL)**

ORIGINAL BY: T.S.S. DATE: NOV. 1997
 MODIFIED BY: E.E.W. DATE: 8-28-02
 CHECKED BY: Eric Ward DATE: 10/13/06
 FILE SPEC.: /usr/details/stand/boxtoibe.dgn

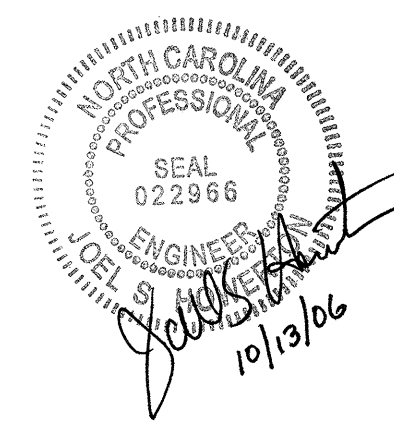


GENERAL NOTES:

- THE ROADWAY PLANS INDICATE STRUCTURES TO BE CONVERTED.
- 4" SOLID CLAY BRICK, JUMBO BRICK, CONCRETE, OR 4" SOLID CONCRETE BLOCK MAY BE USED FOR VERTICAL ADJUSTMENT OF THE STRUCTURE.
- ALL CONVERSIONS SHALL BE IN ACCORDANCE WITH SECTION 859 OF THE STANDARD SPECIFICATIONS.
- FIELD VERIFY THE DIMENSIONS FOR THE EXISTING BOX.
- DETAIL INTENDED FOR NON-TRAFFIC BEARING DRAINAGE STRUCTURES.



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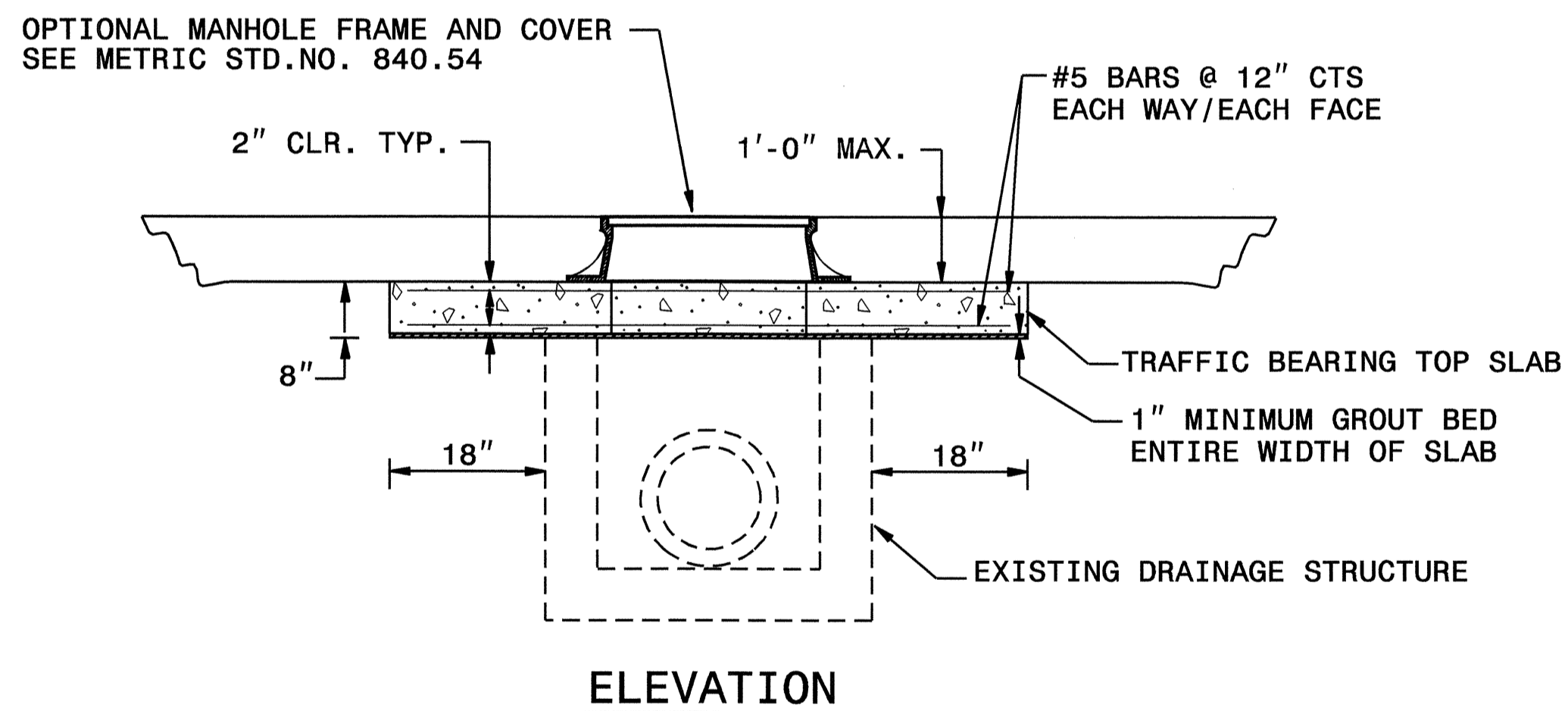
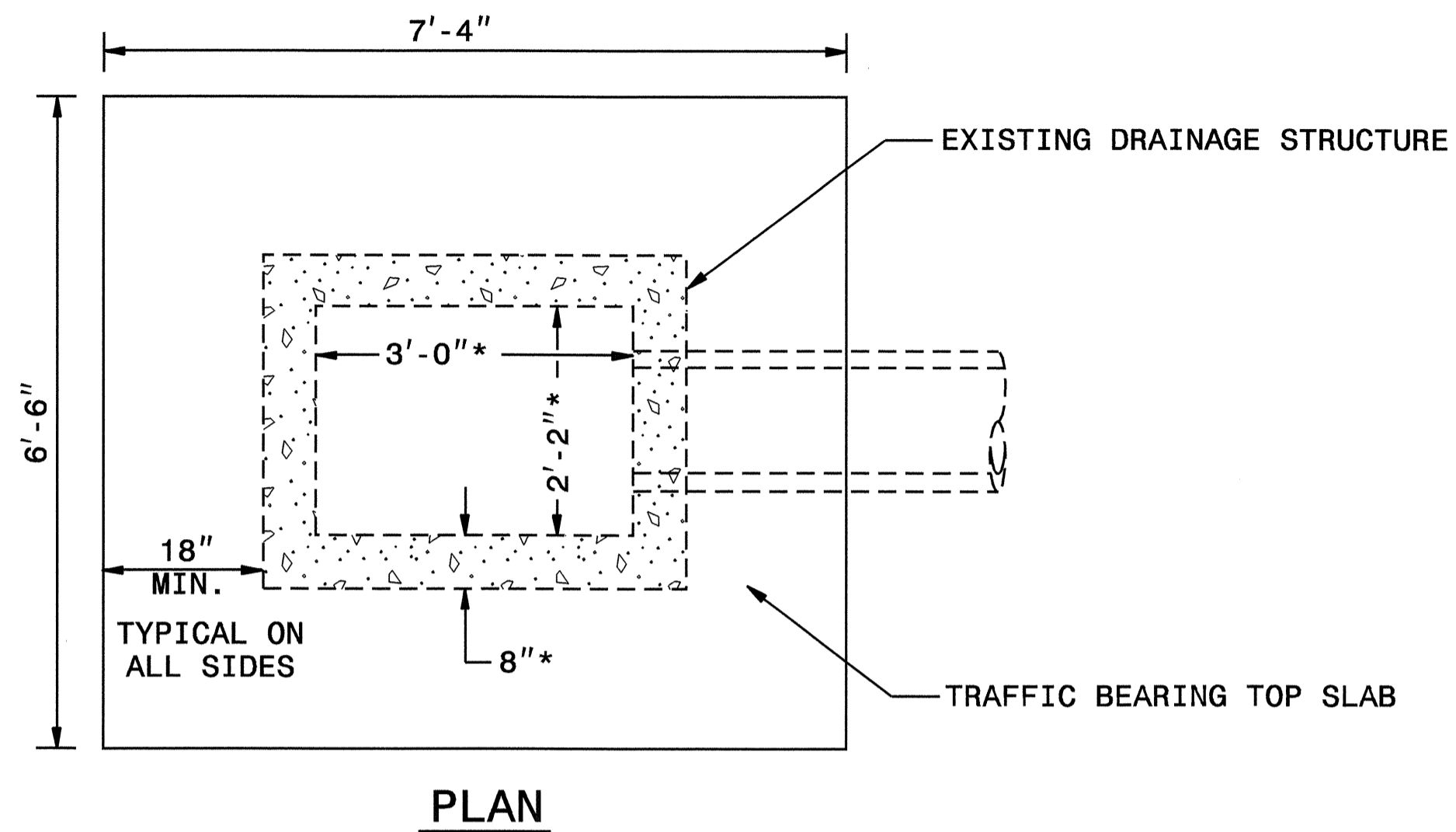


PROJECT SERVICES UNIT STANDARDS AND SPECIAL DESIGN	
Office 919-250-4128	FAX 919-250-4119
DETAIL TO CONVERT EXISTING OPEN THROAT CATCH BASIN TO FRAME & GRATE CATCH BASIN	
ORIGINAL BY: E.E. WARD	DATE: 02-04
MODIFIED BY:	DATE:
CHECKED BY: <i>Joel S. Ward</i>	DATE: 10/13/06
FILE SPEC.: \usr\details\stand\cbtojb.e.dgn	

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

ENGLISH DETAIL DRAWING FOR
**PRECAST TRAFFIC BEARING TOP
SLAB FOR EXISTING BOXES**

SHEET 1 OF 1
trficbearslab



BILL OF MATERIAL				
TRAFFIC BEARING TOP SLAB				
BAR	NO.	SIZE	LENGTH	WEIGHT
S1	8	#5	6'-6"	54.2
S2	7	#5	7'-4"	53.5
TOTAL REINF. STEEL (lbs.)				107.7
CLASS "B" CONC. (cu.yds.)				1.2

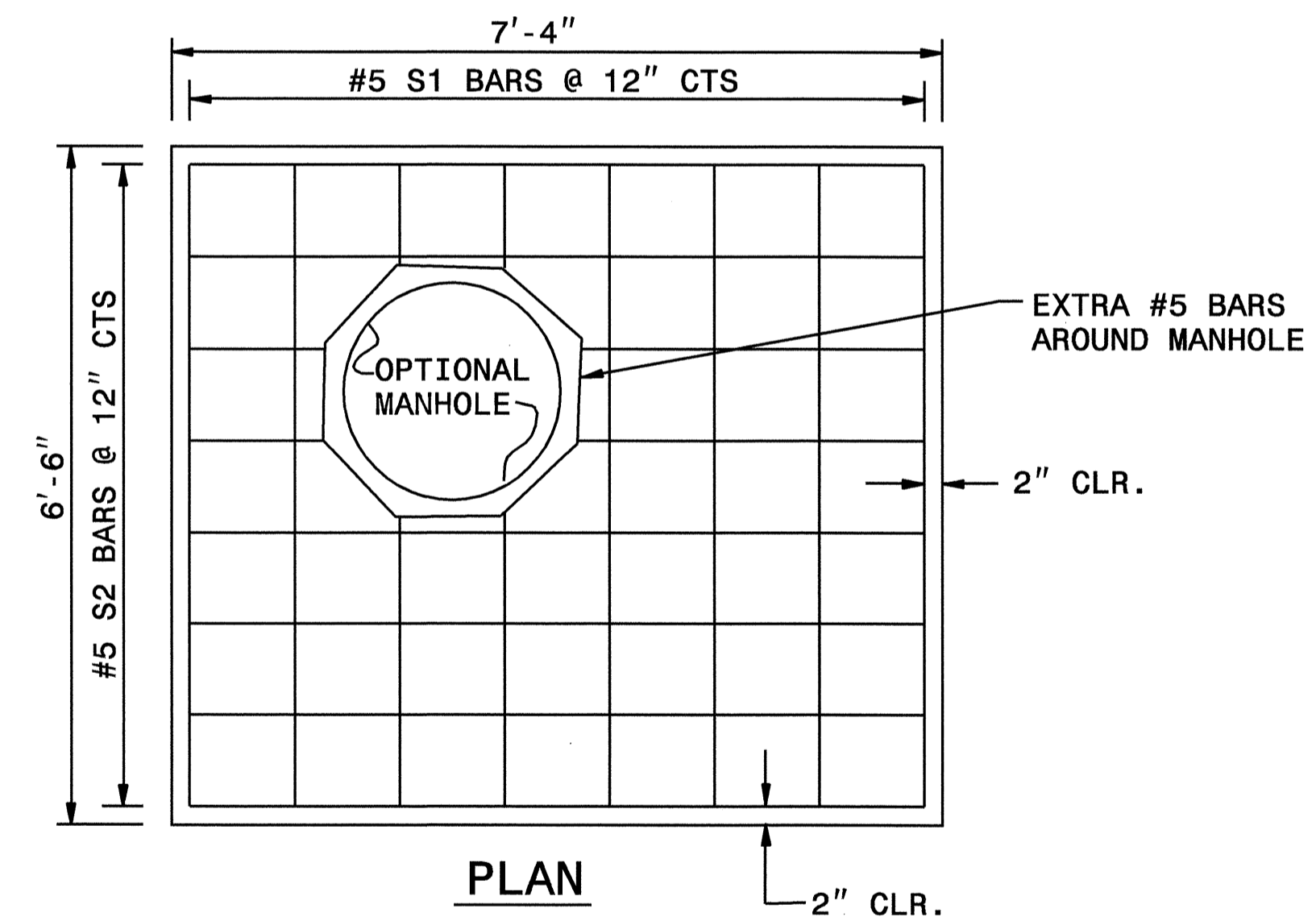
GENERAL NOTES:

QUANTITIES FOR TRAFFIC BEARING TOP SLAB ARE CALCULATED FOR A TYPICAL SIZE CATCH BASIN HOUSING 12" THROUGH 36" PIPES

USE 4000 PSI COMPRESSIVE STRENGTH CONCRETE.

ADJUST QUANTITIES FOR MANHOLE CONSTRUCTION

* DIMENSIONS MAY VARY AND SHOULD BE FIELD CONFIRMED

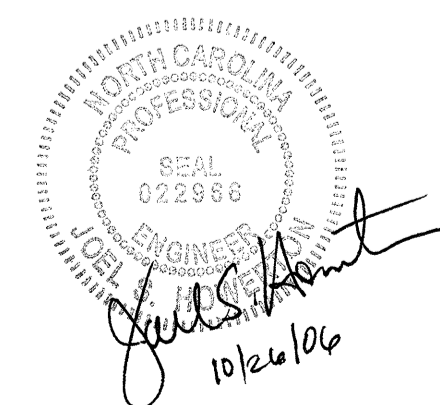


STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

ENGLISH DETAIL DRAWING FOR
**PRECAST TRAFFIC BEARING TOP
SLAB FOR EXISTING BOXES**

SHEET 1 OF 1
trficbearslab

26-OCT-2006 09:07
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 jpower tom AT P5212260



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

SEE PLATE FOR TITLE

ORIGINAL BY: E.E. WARD DATE: 11-98
 MODIFIED BY: [Signature] DATE: [Blank]
 CHECKED BY: [Signature] DATE: 10/26/06
 FILE SPEC.: ds172:\usr\detail\stand\trficbearslab.dgn

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS
ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201672

ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION
0043000000-N	226	Lump Sum		GRADING
0057000000-E	226	10	CY	UNDERCUT EXCAVATION
0318000000-E	300	75	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS
0360000000-E	310	12	LF	12" RC PIPE CULVERTS, CLASS III
0366000000-E	310	36	LF	15" RC PIPE CULVERTS, CLASS III
0372000000-E	310	468	LF	18" RC PIPE CULVERTS, CLASS III
0378000000-E	310	32	LF	24" RC PIPE CULVERTS, CLASS III
0995000000-E	340	318	LF	PIPE REMOVAL
1220000000-E	545	25	TON	INCIDENTAL STONE BASE
1245000000-E	SP	5.53	SMI	SHOULDER RECONSTRUCTION
1297000000-E	607	91,467	SY	MILLING ASPHALT PAVEMENT, **** DEPTH (1-1/2")
1308000000-E	607	530	SY	MILLING ASPHALT PAVEMENT, **** TO ***** DEPTH 0"-1.5"
1489000000-E	610	1,700	TON	ASPHALT CONC BASE COURSE, TYPE B25.0B
1498000000-E	610	1,650	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE 119.0B
1519000000-E	610	17,163	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5B
1560000000-E	620	1,185	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22
1693000000-E	654	5	TON	ASPHALT PLANT MIX, PAVEMENT REPAIR
1704000000-E	SP	288	TON	PATCHING EXISTING PAVEMENT
2253000000-E	840	0.8	CY	PIPE COLLARS
2286000000-N	840	9	EA	MASONRY DRAINAGE STRUCTURES
2364000000-N	840	1	EA	FRAME WITH TWO GRATES, STD 840.16

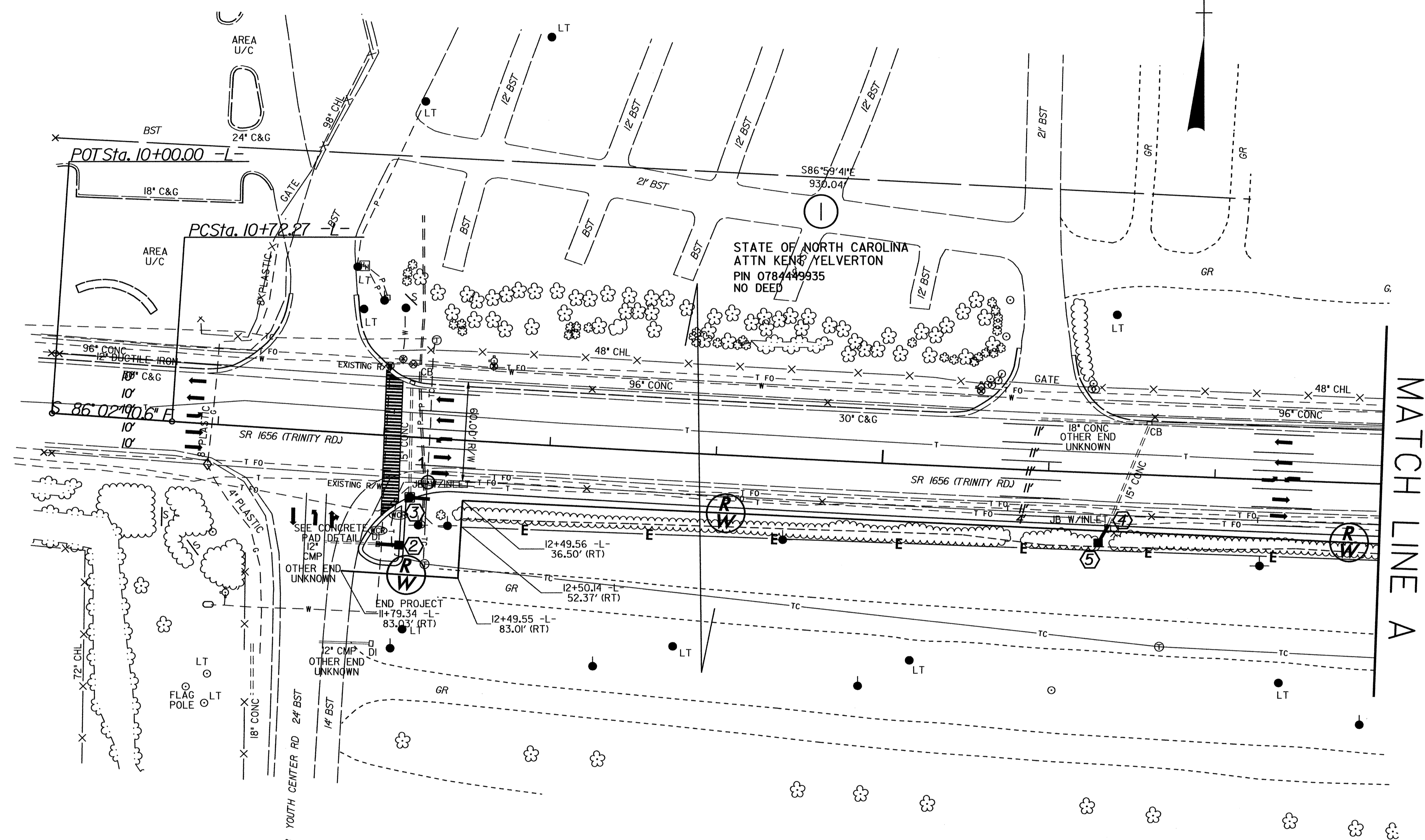
ItemNumber	Sec #	Quantity	Unit	Description
2374000000-N	840	10	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)
2374000000-N	840	1	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)
2396000000-N	840	5	EA	FRAME WITH COVER, STD 840.54
2549000000-E	846	2,390	LF	2'-6" CONCRETE CURB & GUTTER
2591000000-E	848	1,290	SY	4" CONCRETE SIDEWALK
2605000000-N	848	16	EA	CONCRETE WHEELCHAIR RAMPS
2739000000-E	852	54	SY	GENERIC PAVING ITEM 4" CONCRETE ISLAND COVERS
2830000000-N	858	21	EA	ADJUSTMENT OF MANHOLES
2845000000-N	858	56	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES
2995000000-N	SP	3	EA	GENERIC DRAINAGE ITEM CONVERT EXT OPEN THROAT CATCH BASIN TO CATCH BASIN
2995000000-N	SP	3	EA	GENERIC DRAINAGE ITEM CONVERT EXT OPEN THROAT CATCH BASIN TO JUNCTION BOX W/ MAN-HOLE COVER
2995000000-N	SP	2	EA	GENERIC DRAINAGE ITEM CONVERT EXT OPEN THROAT CATCH BASIN TO TRAFFIC BEARING JUNCTN BOX W/ MH COVER
3210000000-N	862	1	EA	GUARDRAIL ANCHOR UNITS, TYPE CAT-1
3270000000-N	SP	1	EA	GUARDRAIL ANCHOR UNITS, TYPE 350
3345000000-E	864	350	LF	REMOVE & RESET EXISTING GUARDRAIL
4589000000-N	SP	Lump Sum		GENERIC TRAFFIC CONTROL ITEM TRAFFIC CONTROL
4590000000-E	SP	350	LF	GENERIC TRAFFIC CONTROL ITEM CHAIN
4600000000-N	SP	40	EA	GENERIC TRAFFIC CONTROL ITEM BOLLARD
4685000000-E	1205	31,221	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)
4686000000-E	1205	69,420	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)

ItemNumber	Sec #	Quantity	Unit	Description
4695000000-E	1205	100	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)
4697000000-E	1205	1,402	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 120 MILS)
4710000000-E	1205	3,184	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)
4721000000-E	1205	8	EA	THERMOPLASTIC PAVEMENT MARKING CHARACTER (120 MILS)
4725000000-E	1205	336	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
4810000000-E	1205	45,069	LF	PAINT PAVEMENT MARKING LINES (4")
4900000000-N	1251	964	EA	PERMANENT RAISED PAVEMENT MARKERS
5325000000-E	1510	141	LF	6" WATER LINE
5326200000-E	1510	95	LF	12" WATER LINE
5571600000-E	1515	6	EA	6" TAPPING VALVE
5882000000-N	SP	6	EA	GENERIC UTILITY ITEM FIRE HYDRANT, 150# WP
5882000000-N	SP	6	EA	GENERIC UTILITY ITEM REMOVE & STOCKPILE EXISTING FIRE HYDRANT
6000000000-E	1605	1,900	LF	TEMPORARY SILT FENCE
6009000000-E	1610	20	TON	STONE FOR EROSION CONTROL, CLASS B
6012000000-E	1610	10	TON	SEDIMENT CONTROL STONE
6030000000-E	1630	655	CY	SILT EXCAVATION
6036000000-E	1631	2,000	SY	MATTING FOR EROSION CONTROL
6084000000-E	1660	6.6	ACR	SEEDING & MULCHING
7048000000-E	1705	3	EA	PEDESTRIAN SIGNAL HEAD (12", 2 SECTION)
7060000000-E	1705	1,300	LF	SIGNAL CABLE
7120000000-E	1705	8	EA	VEHICLE SIGNAL HEAD (12", 3 SECTION)
7132000000-E	1705	2	EA	VEHICLE SIGNAL HEAD (12", 4 SECTION)
7144000000-E	1705	1	EA	VEHICLE SIGNAL HEAD (12", 5 SECTION)
7252000000-E	1710	1,595	LF	MESSENGER CABLE (1/4")
7264000000-E	1710	500	LF	MESSENGER CABLE (3/8")
7288000000-E	1715	130	LF	PAVED TRENCHING (***** (2, 2"))
7300000000-E	1715	625	LF	UNPAVED TRENCHING (***** (2, 2"))
7324000000-N	1716	6	EA	JUNCTION BOX (STANDARD SIZE)
7360000000-N	1720	2	EA	WOOD POLE
7372000000-N	1721	10	EA	GUY ASSEMBLY
7420000000-E	1722	6	EA	2" RISER WITH WEATHERHEAD
7444000000-E	1725	2,276	LF	INDUCTIVE LOOP SAWCUT
7456000000-E	1726	2,100	LF	LEAD-IN CABLE (***** (18-4))
7504000000-E	SP	1,635	LF	COMMUNICATIONS CABLE (** TWISTED-PAIR) (12)
7684000000-N	1750	1	EA	SIGNAL CABINET FOUNDATION
7828000000-N	1751	1	EA	CONTROLLER WITH CABINET (NEMA TS-2, TYPE 2 CONTROLLER, TYPE I CABINET, BASE MOUNTED)
7852000000-N	1751	1	EA	DETECTOR CARD (NEMA TS-2)
7924000000-N	SP	1	EA	TWISTED-PAIR SPLICE CABINET
7948000000-N	SP	1	EA	TRAFFIC SIGNAL REMOVAL

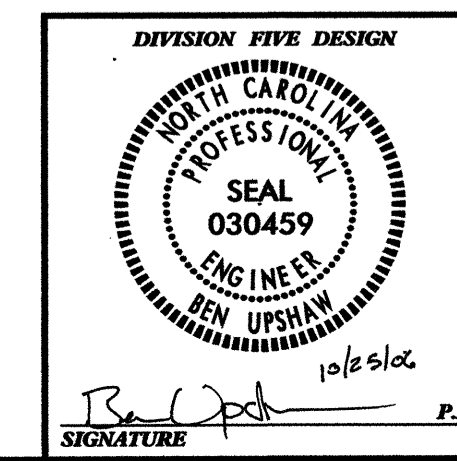
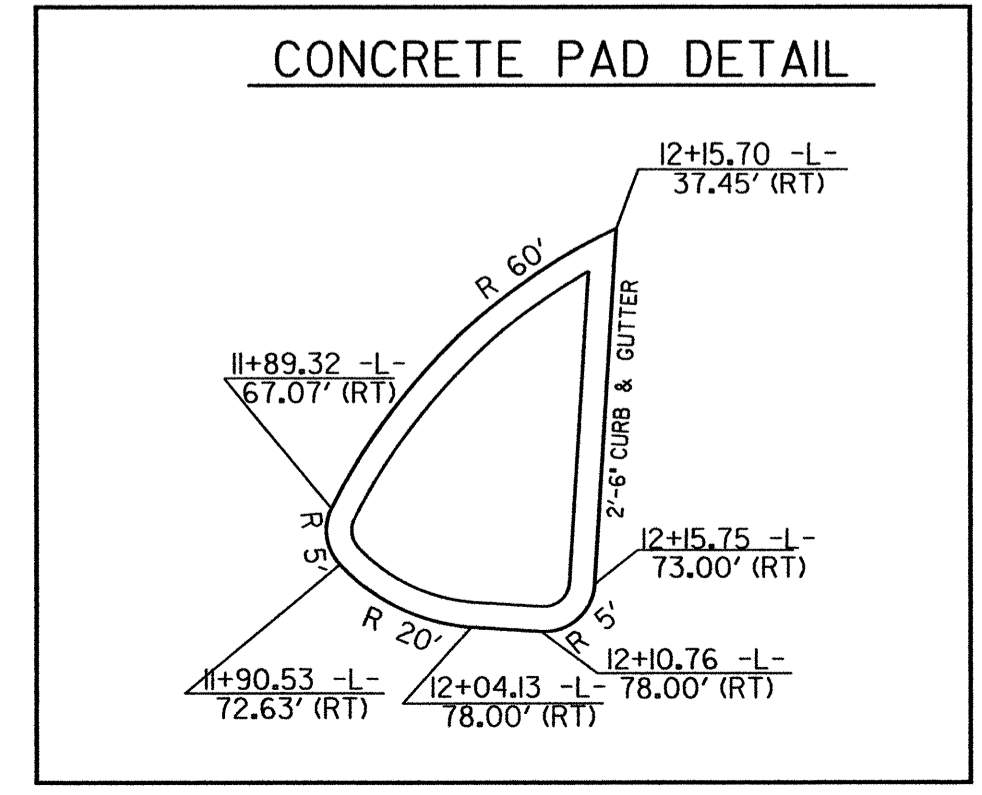
4/04/06

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MATCH LINE A



WIDEN FOR TURN LANES AT SR 1656 (TRINITY ROAD) AND SR 1664 (BLUE RIDGE ROAD)

DIVISION 05 WAKE COUNTY RALEIGH

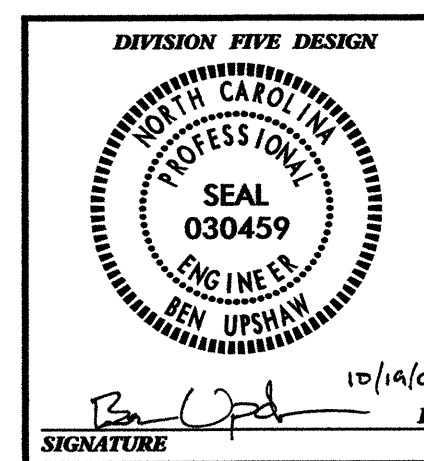
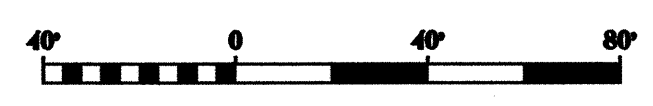
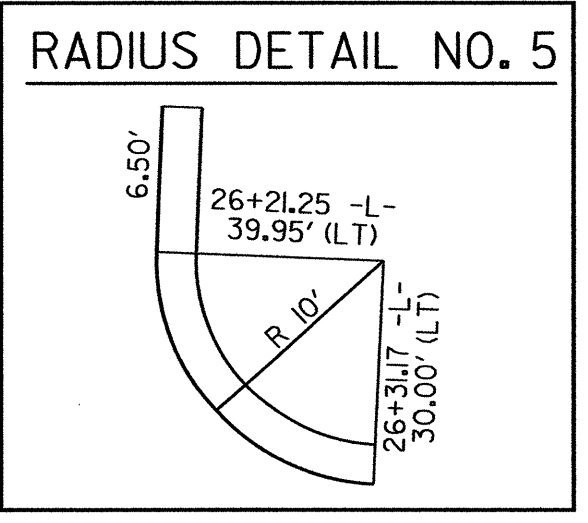
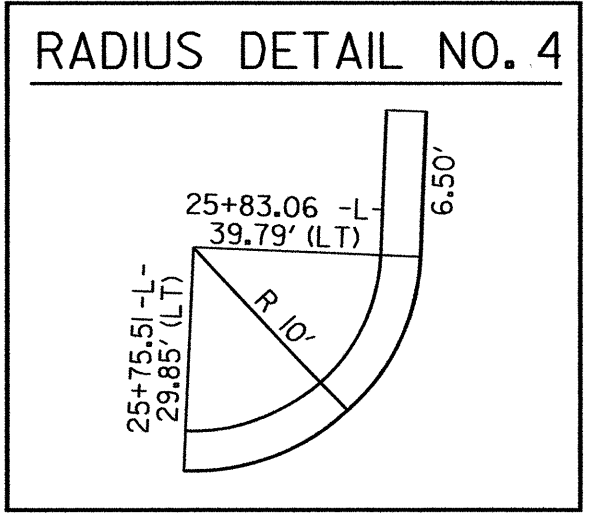
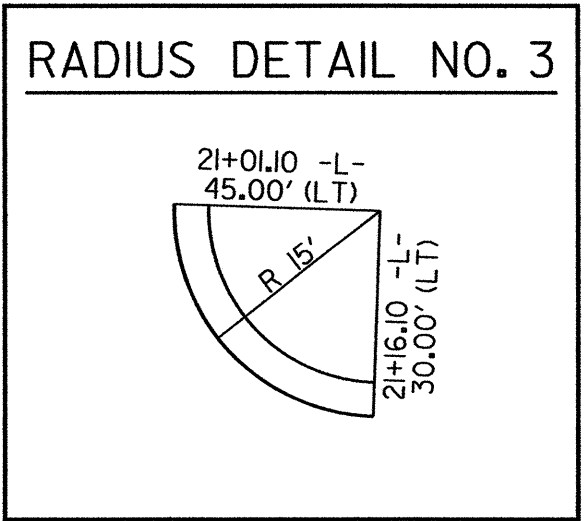
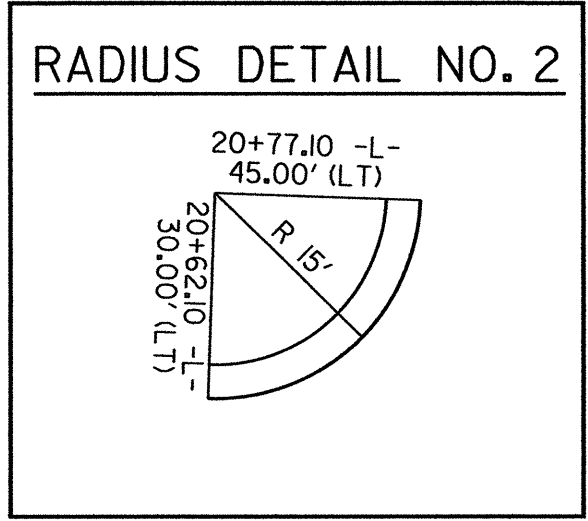
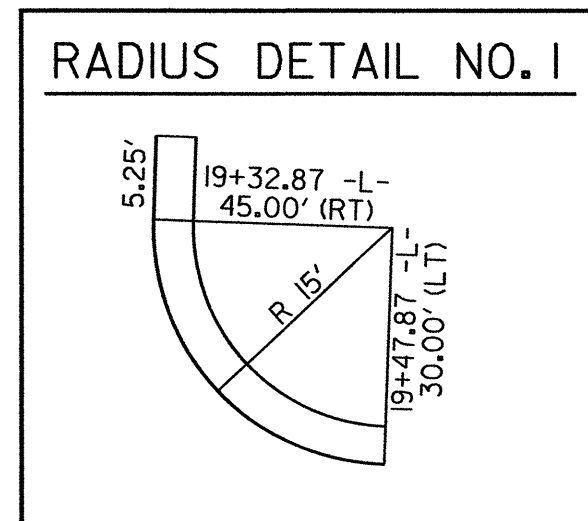
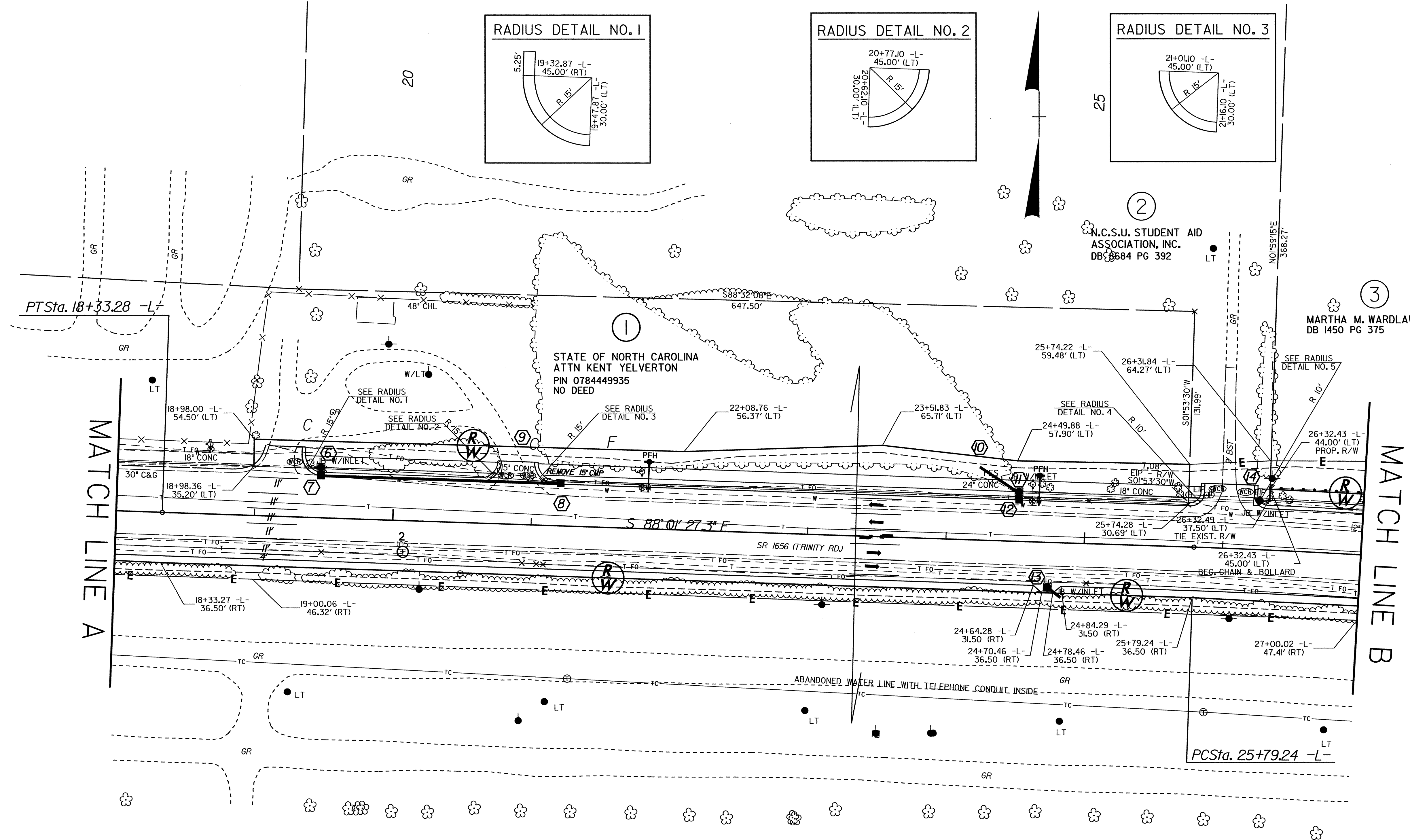
REVISIONS	INIT.	DATE

SCALE: DATE: 6/03

PREPARED BY: M. BRANDON
 REVIEWED BY: B. UPSHAW
 REVIEWED BY: B. JONES

N.C. DEPARTMENT of TRANSPORTATION
 DIVISION of HIGHWAYS
 DIVISION FIVE DESIGN UNIT





WIDEN FOR TURN LANES AT SR 1656 (TRINITY ROAD) AND SR 1664 (BLUE RIDGE ROAD)

DIVISION 05 WAKE COUNTY RALEIGH

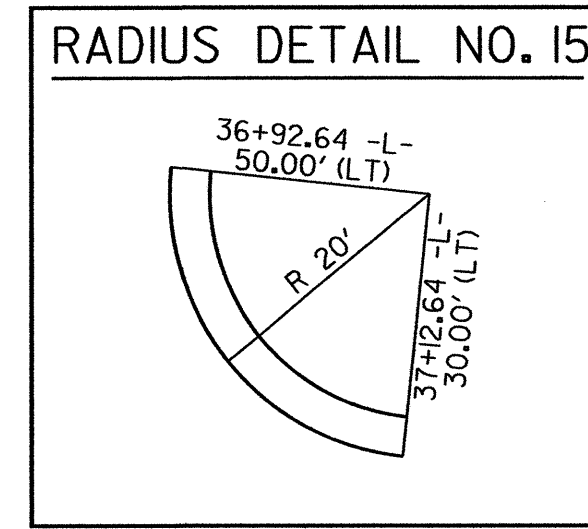
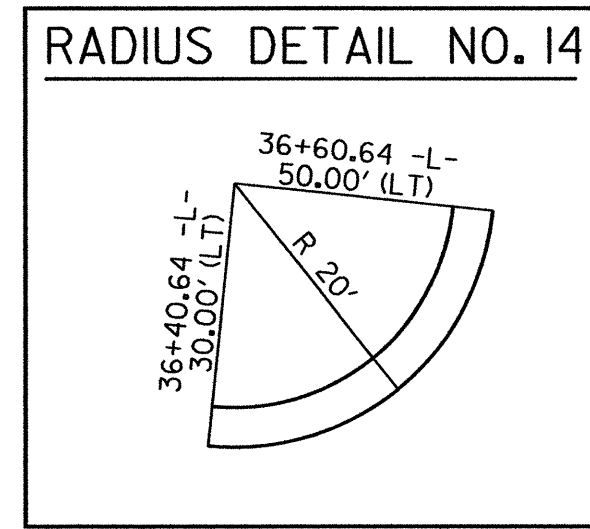
REVISIONS	INT.	DATE

SCALE: DATE: 6/03

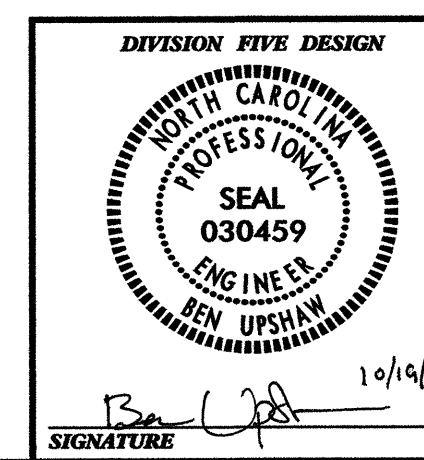
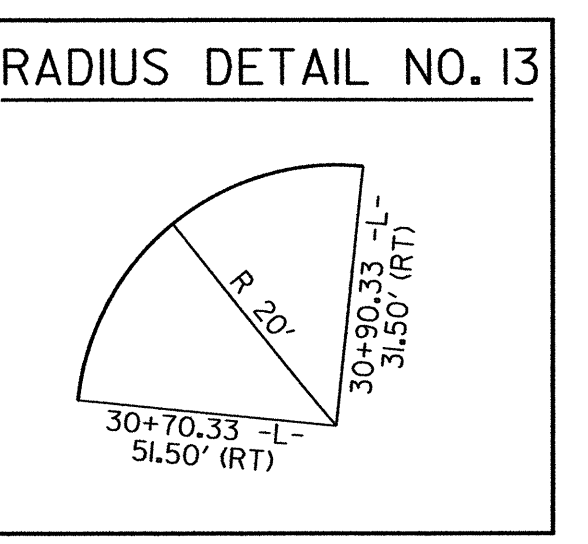
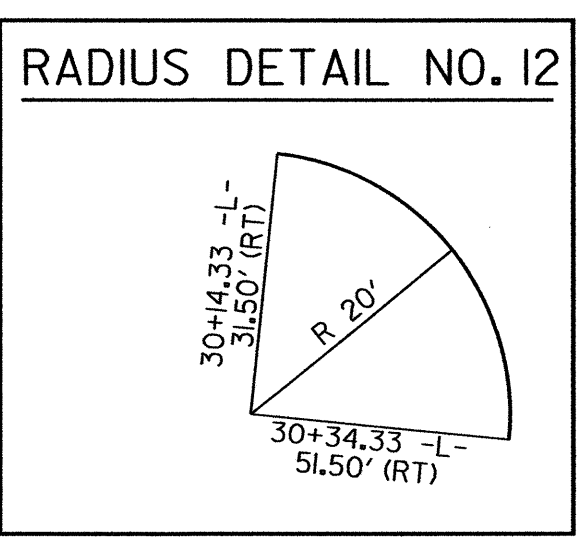
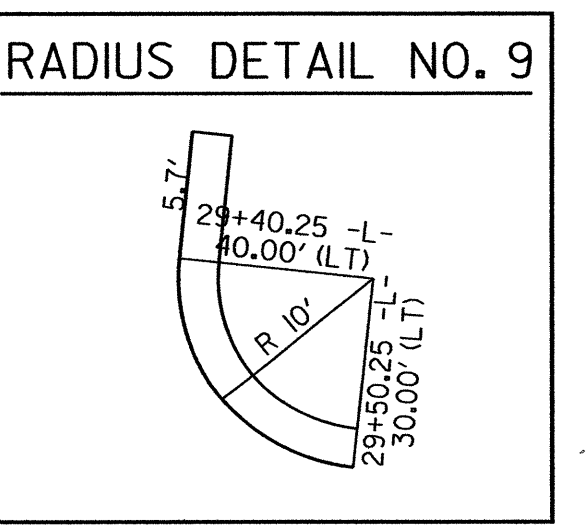
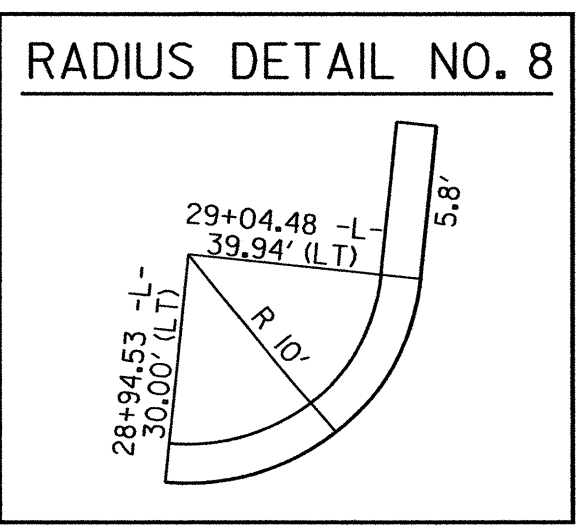
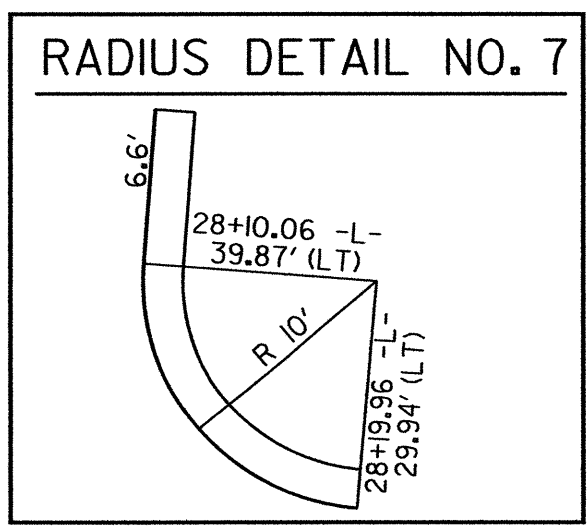
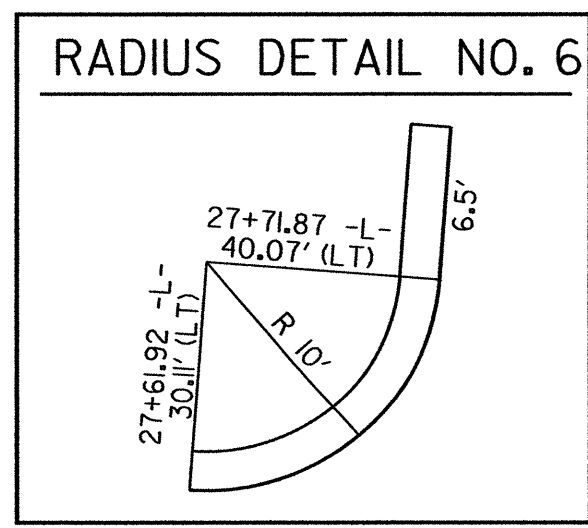
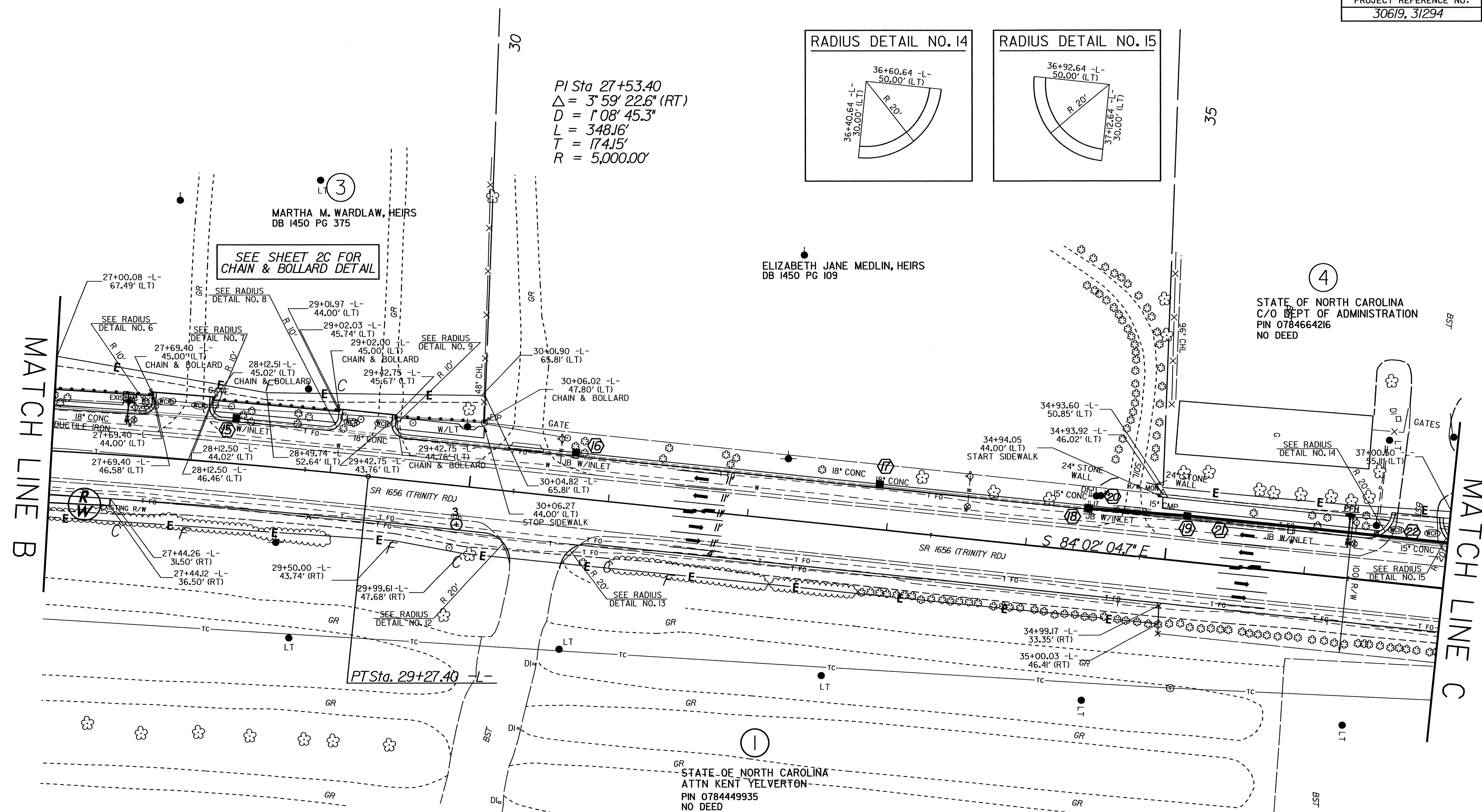
PREPARED BY: M. BRANDON
 REVIEWED BY: B. UPSHAW
 REVIEWED BY: B. JONES

N.C. DEPARTMENT of TRANSPORTATION
 DIVISION of HIGHWAYS
 DIVISION FIVE DESIGN UNIT

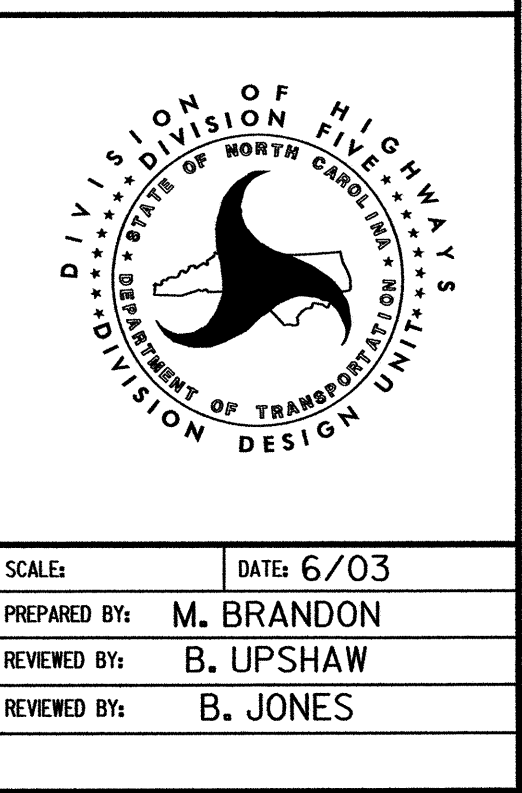


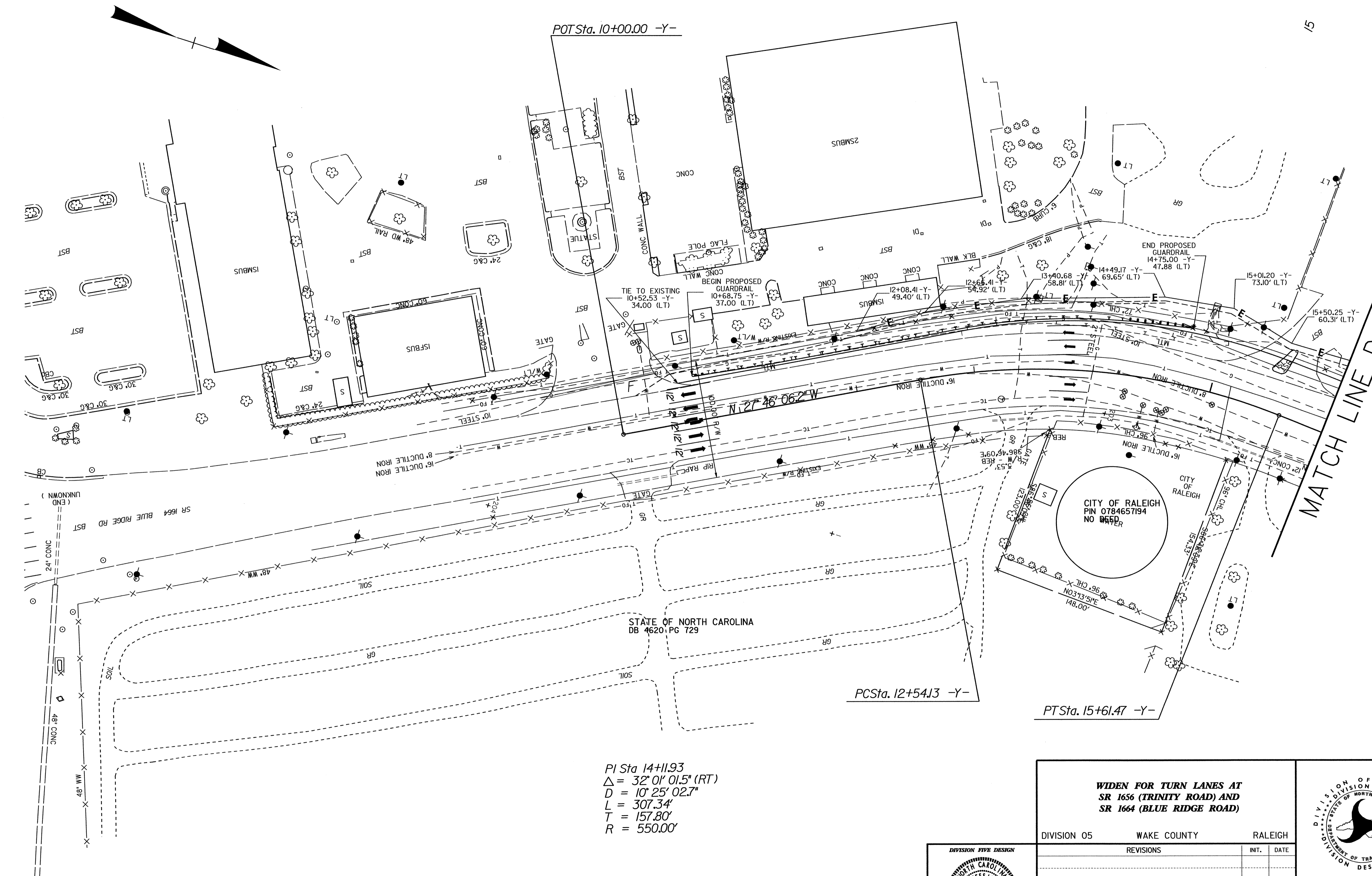


PI Sta 27+53.40
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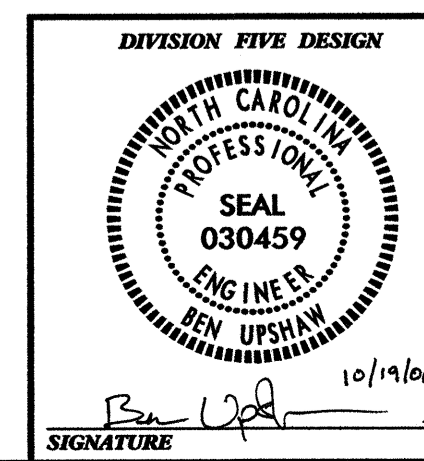


WIDEN FOR TURN LANES AT SR 1656 (TRINITY ROAD) AND SR 1664 (BLUE RIDGE ROAD)		
DIVISION 05 WAKE COUNTY RALEIGH		
REVISIONS	INT.	DATE
SCALE: DATE: 6/03		
PREPARED BY: M. BRANDON		
REVIEWED BY: B. UPSHAW		
REVIEWED BY: B. JONES		
N.C. DEPARTMENT of TRANSPORTATION DIVISION of HIGHWAYS DIVISION FIVE DESIGN UNIT		



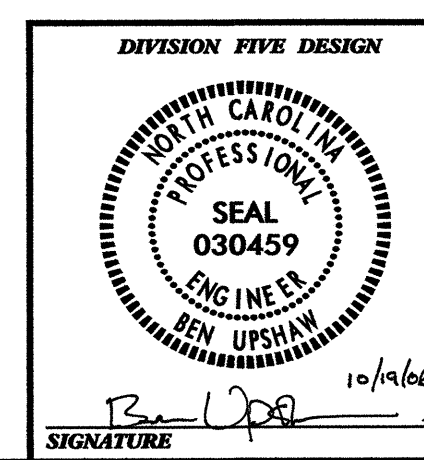
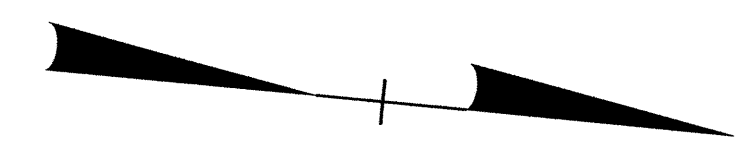
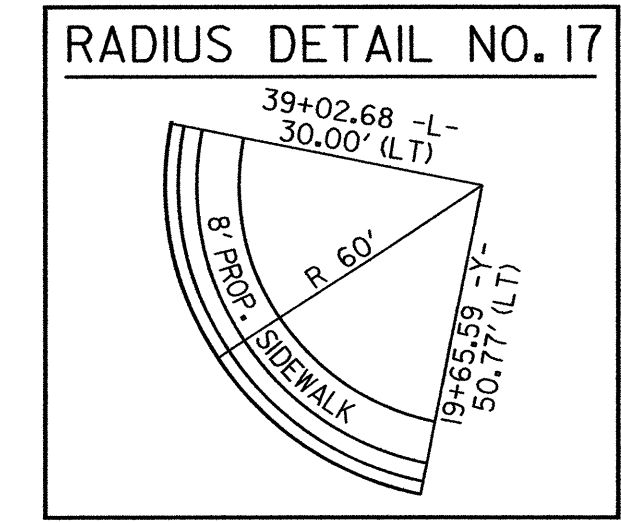
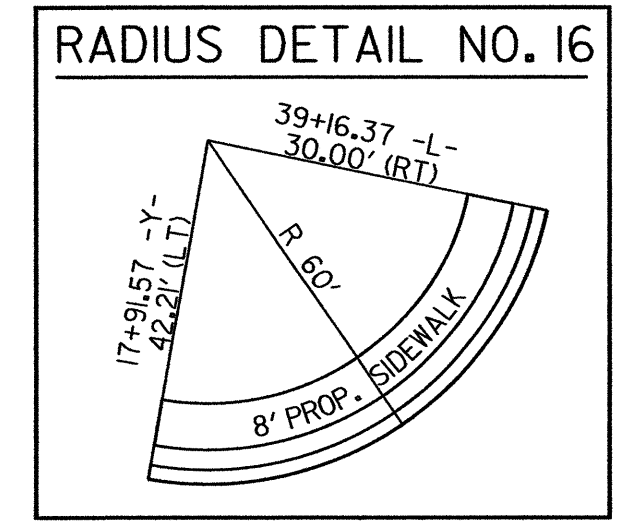
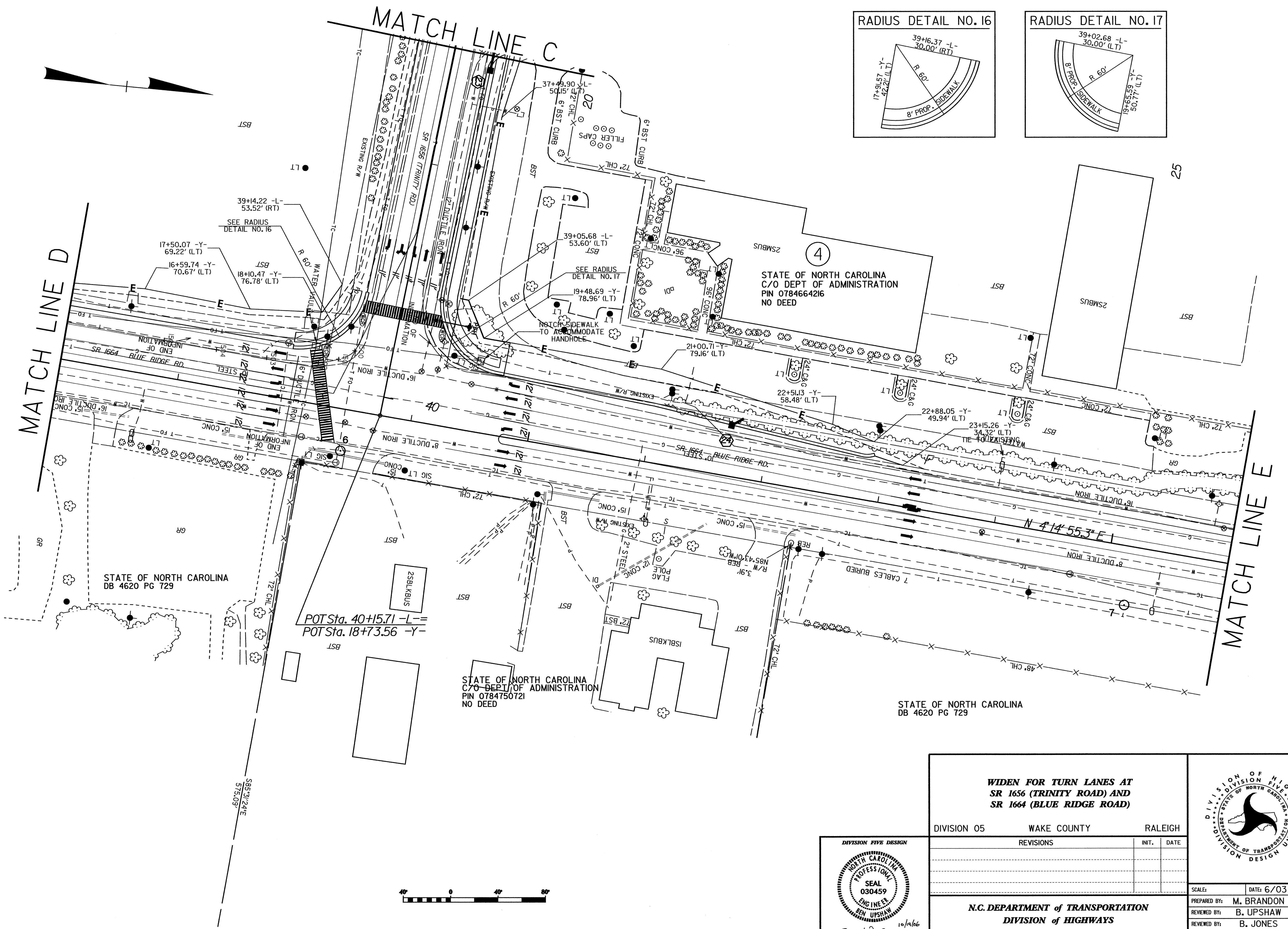


PI Sta 14+11.93
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 $R = 550.00'$



WIDEN FOR TURN LANES AT SR 1666 (TRINITY ROAD) AND SR 1664 (BLUE RIDGE ROAD)	
DIVISION 05	WAKE COUNTY RALEIGH
REVISIONS	INT. DATE
N.C. DEPARTMENT of TRANSPORTATION DIVISION of HIGHWAYS DIVISION FIVE DESIGN UNIT	

DATE: 6/03
 PREPARED BY: M. BRANDON
 REVIEWED BY: B. UPSHAW
 REVIEWED BY: B. JONES



**WIDEN FOR TURN LANES AT
SR 1656 (TRINITY ROAD) AND
SR 1664 (BLUE RIDGE ROAD)**

DIVISION 05 WAKE COUNTY RALEIGH

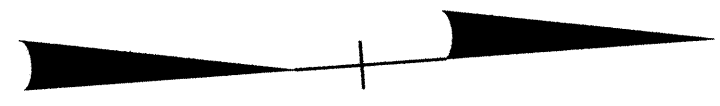
REVISIONS	INIT.	DATE

SCALE: DATE: 6/03

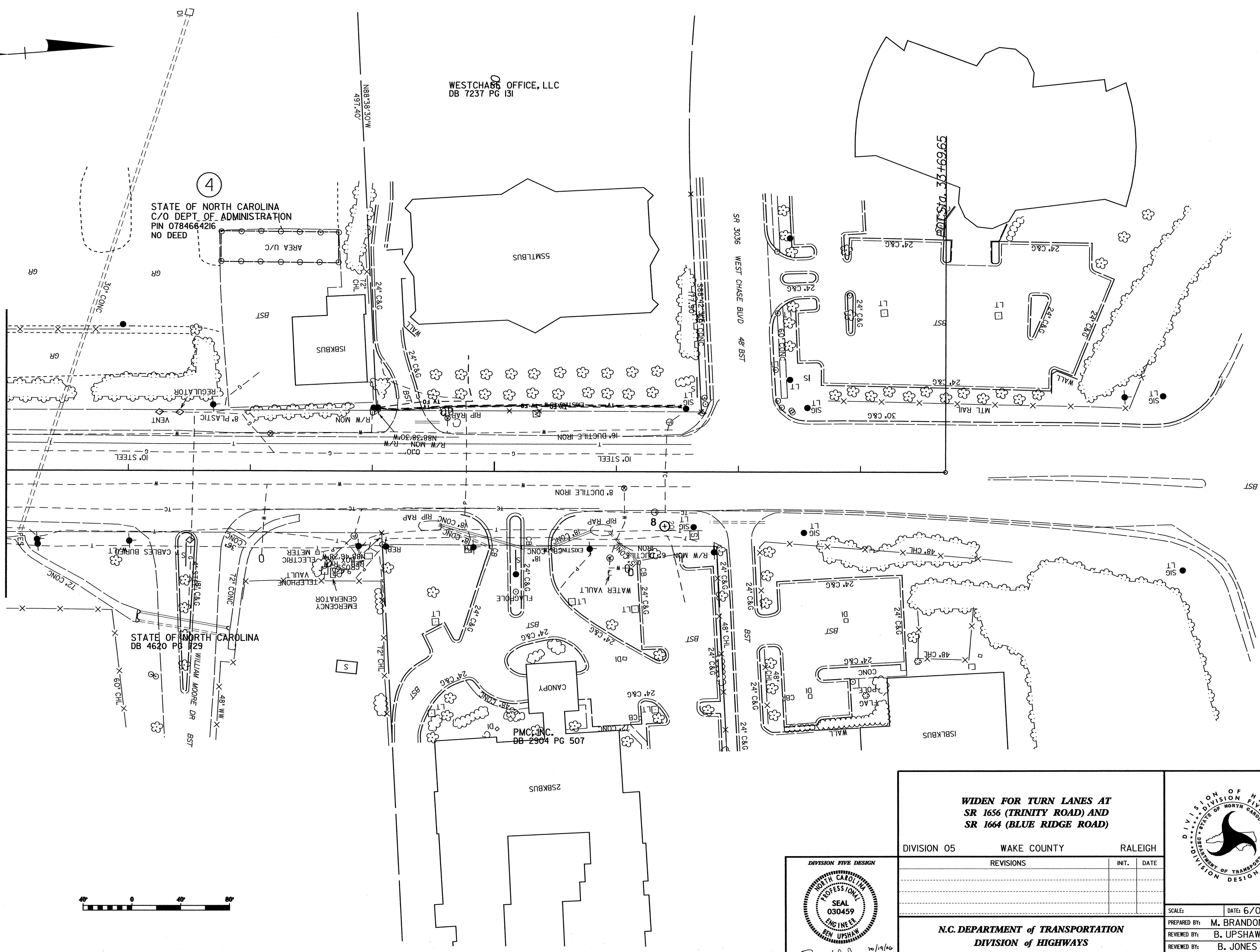
PREPARED BY: M. BRANDON
 REVIEWED BY: B. UPSHAW
 REVIEWED BY: B. JONES

**N.C. DEPARTMENT of TRANSPORTATION
 DIVISION of HIGHWAYS
 DIVISION FIVE DESIGN UNIT**





MATCH LINE E

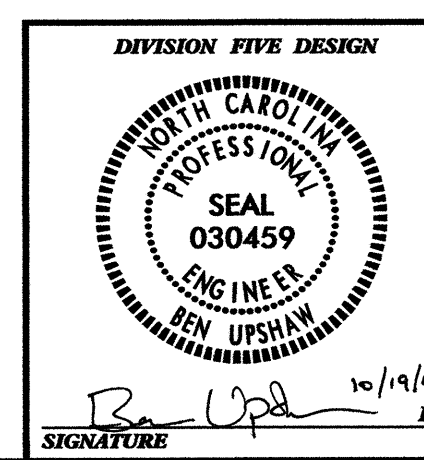


**WIDEN FOR TURN LANES AT
SR 1656 (TRINITY ROAD) AND
SR 1664 (BLUE RIDGE ROAD)**

DIVISION 05 WAKE COUNTY RALEIGH

REVISIONS	INIT.	DATE

**N.C. DEPARTMENT of TRANSPORTATION
DIVISION of HIGHWAYS
DIVISION FIVE DESIGN UNIT**



SCALE: DATE: 6/03

PREPARED BY: M. BRANDON

REVIEWED BY: B. UPSHAW

REVIEWED BY: B. JONES

PROJECT REFERENCE NO. 30619, 31294	SHEET NO. 10
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
FOR INFORMATION ONLY	

