

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

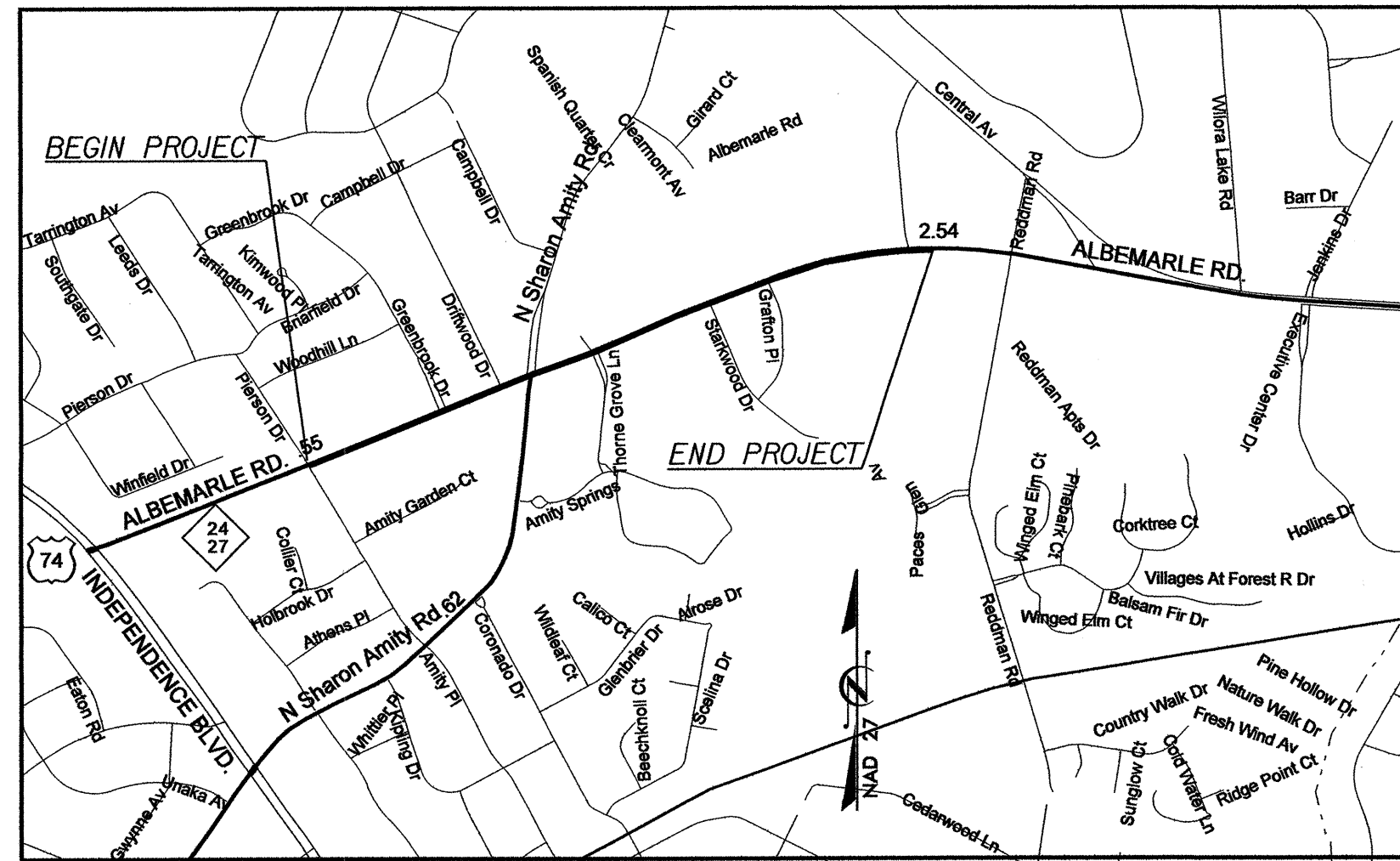
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

MECKLENBURG COUNTY

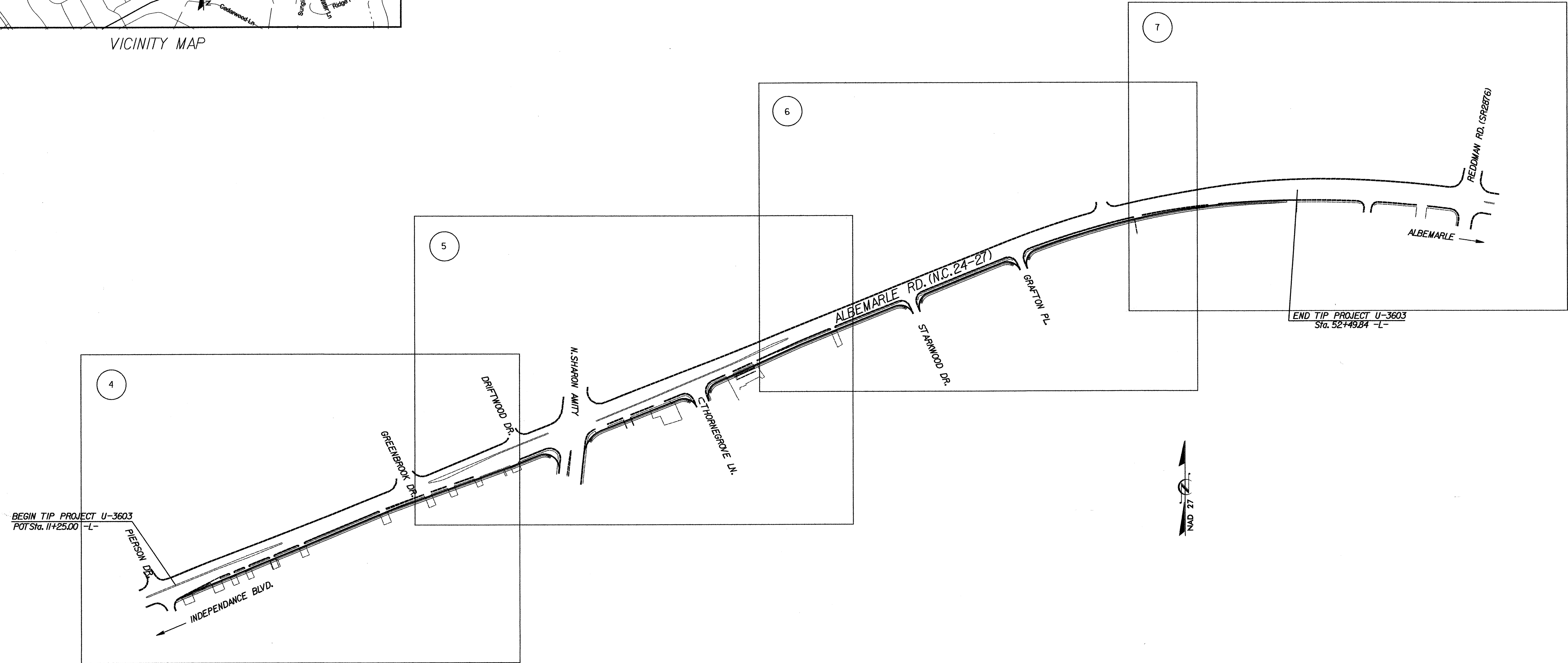
**LOCATION: NC 24-27 (ALBEMARLE RD.) FROM PIERSON DR
TO APPROXIMATELY 0.11 MILES WEST OF
REDDMAN RD. (SR 2876)**

TYPE OF WORK: GRADING, DRAINAGE, CURB & GUTTER AND PAVING

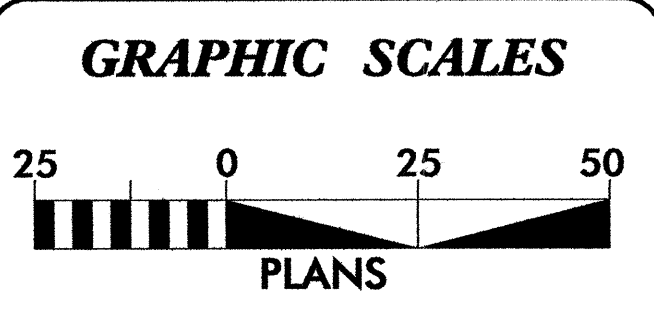
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3603	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
WBS 34959.3.2	STP-24(18)	CONST.	
WBS 34959.2.1	STP-24(18)	RW	
WBS 34959.1.1	STP-24(18)	PE	



VICINITY MAP



CONTRACT: C201462 **TIP: U-3603**



DESIGN DATA

ADT 2004 =	33,000
ADT 2014 =	42,900
DHV =	NA %
D i =	NA %
T =	NA % *
V =	50 MPH
* TTST NA	DUAL NA

PROJECT LENGTH

LENGTH OF ROADWAY TIP PROJECT U-3603 = 0.781 MILES
TOTAL LENGTH OF TIP PROJECT U-3603 = 0.781 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
DIVISION TEN
DIVISION DESIGN/CONSTRUCT UNIT

2006 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: 5/9/06	K. CRUMP PROJECT ENGINEER
LETTING DATE: 4/17/07	R. W. BOWERS PROJECT DESIGN ENGINEER

DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
REVIEWED BY

B.S.M.
DIVISION ENGINEER P.E.

13-FEB-2007 15:35
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Burleson AT DiCAD206456

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

EFF. 07-18-06

SHEET NUMBER	INDEX OF SHEETS SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2 THRU 2-A	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2-B	JB DETAIL SHEET
2-C	ANCHORAGE FOR FRAMES
3	SUMMARY OF QUANTITIES
3A THRU 3C	SUMMARY OF DRAINAGE QUANTITIES EARTHWORK SUMMARY, AND RIGHT OF WAY DATA
4 THRU 7	PLAN SHEET
TCP-1 THRU TCP-3	TRAFFIC CONTROL PLANS
PM-1 THRU PM-3	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
UC-1 THRU UC-7	UTILITY CONSTRUCTION
UO-1 THRU UO-5	UTILITIES BY OTHERS
X-0 THRU X-29	CROSS-SECTIONS

2006 ROADWAY 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
225.06	Method of Grading Sight Distance at Intersections
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation - Method 'A'
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
840.66	Drainage Structure Steps
840.72	Pipe Collar
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

GENERAL NOTES:

2006 SPECIFICATIONS
EFFECTIVE: 07-18-06
REVISED: 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. 848.03 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 PIEDMONT NATURAL GAS, BELLSOUTH,

TIME WARNER CABLE, DUKE ENERGY, AND CHARLOTTE DOT.

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

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

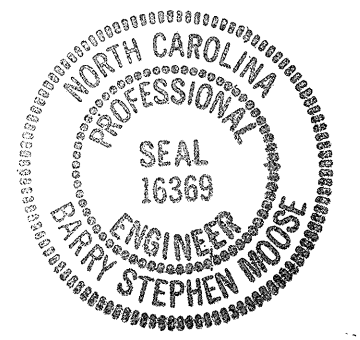
WHEELCHAIR RAMPS:

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

SUPERELEVATION :

MAINTAIN THE EXISTING SUPERELEVATIONS ON NC 24/27.
THE EXISTING SUPERELEVATIONS ON NC 24/27 WILL BE USED FOR THE WIDENING.

**DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
REVIEWED BY**



G. S. Moose
DIVISION ENGINEER P.E.

5/28/99
3-FEB-2007 15:59
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Burleson At 10:41:20:46

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

*S.U.E = SUBSURFACE UTILITY ENGINEER

CONVENTIONAL SYMBOLS

ROADS & RELATED ITEMS

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

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	-----C-----
Prop. Control of Access Line	-----C-----
Exist. Easement Line	-----E-----
Prop. Temp. Construction Easement Line	-----E-----
Prop. Temp. Drainage Easement Line	-----TDE-----
Prop. Perm. Drainage Easement Line	-----PDE-----

HYDROLOGY

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

STRUCTURES

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

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

UTILITIES

Exist. Pole	-----●-----
Exist. Power Pole	-----●-----
Prop. Power Pole	-----○-----
Exist. Telephone Pole	-----●-----
Prop. Telephone Pole	-----○-----
Exist. Joint Use Pole	-----●-----
Prop. Joint Use Pole	-----○-----
Telephone Pedestal	-----T-----
UG Telephone Cable Hand Hold	-----TH-----
Cable TV Pedestal	-----C-----
UG TV Cable Hand Hold	-----TH-----
UG Power Cable Hand Hold	-----TH-----
Hydrant	-----◇-----
Satellite Dish	-----◇-----
Exist. Water Valve	-----◇-----
Sewer Clean Out	-----◇-----
Power Manhole	-----P-----
Telephone Booth	-----T-----
Cellular Telephone Tower	-----C-----
Water Manhole	-----W-----
Light Pole	-----L-----
H-Frame Pole	-----H-----
Power Line Tower	-----P-----
Pole with Base	-----P-----
Gas Valve	-----◇-----
Gas Meter	-----◇-----
Telephone Manhole	-----T-----
Power Transformer	-----T-----
Sanitary Sewer Manhole	-----S-----
Storm Sewer Manhole	-----S-----
Tank; Water, Gas, Oil	-----T-----
Water Tank With Legs	-----T-----
Traffic Signal Junction Box	-----S-----
Fiber Optic Splice Box	-----F-----
Television or Radio Tower	-----T-----
Utility Power Line Connects to Traffic Signal Lines Cut Into the Pavement	-----TS-----

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

BOUNDARIES & PROPERTIES

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Property Line Symbol	-----P-----
Exist. Iron Pin	-----EIP-----
Property Corner	-----+-----
Property Monument	-----ECM-----
Property Number	-----123-----
Parcel Number	-----6-----
Fence Line	-----X-----
Existing Wetland Boundaries	-----WW & ISBW-----
High Quality Wetland Boundary	-----HO WLB-----
Medium Quality Wetland Boundaries	-----MO WLB-----
Low Quality Wetland Boundaries	-----LO WLB-----
Proposed Wetland Boundaries	-----WLB-----
Existing Endangered Animal Boundaries	-----EAB-----
Existing Endangered Plant Boundaries	-----EPB-----

BUILDINGS & OTHER CULTURE

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

TOPOGRAPHY

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

VEGETATION

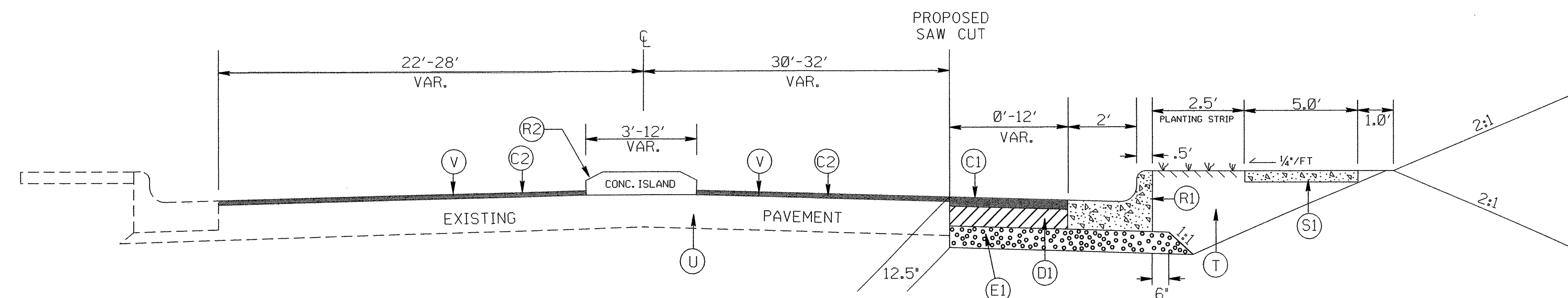
Single Tree	-----
Single Shrub	-----
Hedge	-----
Woods Line	-----
Orchard	-----
Vineyard	-----

RAILROADS

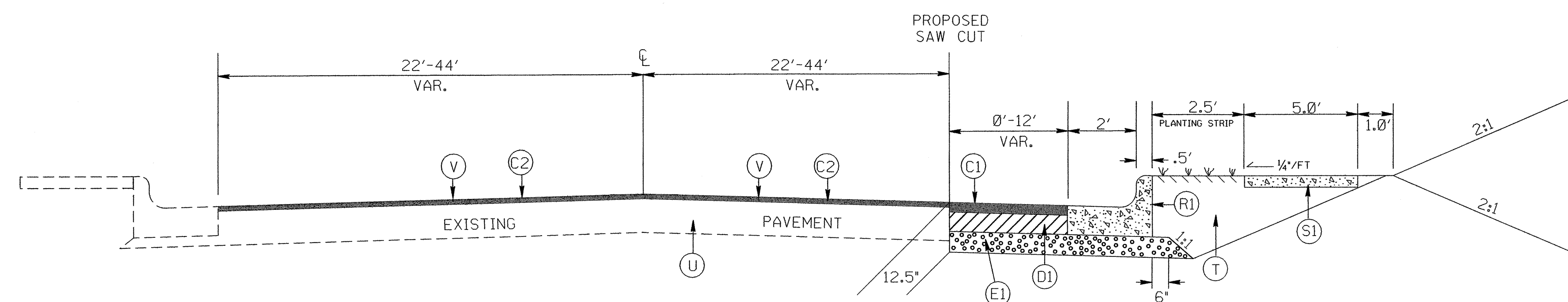
Standard Gauge	-----
RR Signal Milepost	-----
Switch	-----

5/28/99
03-JAN-2007 11:16
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BUR\ason AT D:\CAD\206456

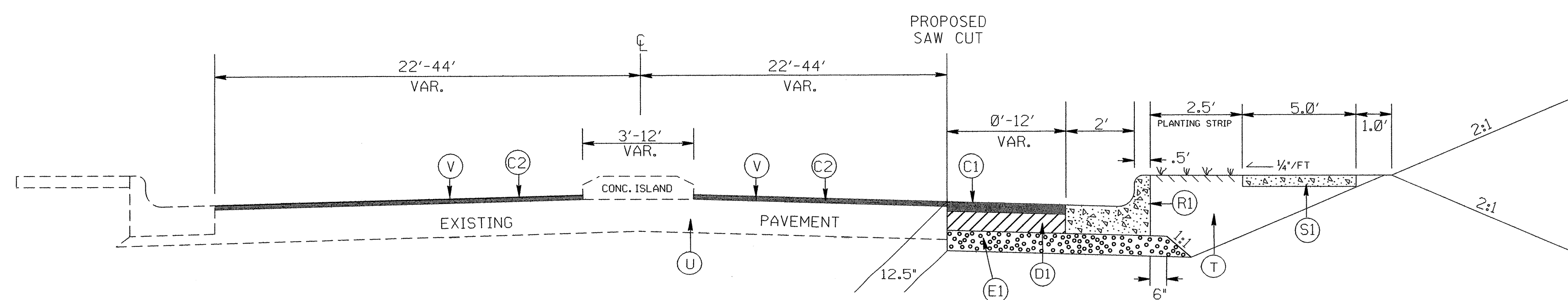
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3603	2	
F.A. PROJECT NO.			



TYPICAL SECTION 3
-L-
STA. 15+14 TO 21+06



TYPICAL SECTION 2
-L-
STA. 24+99 TO 26+66
STA. 33+80 TO 42+00

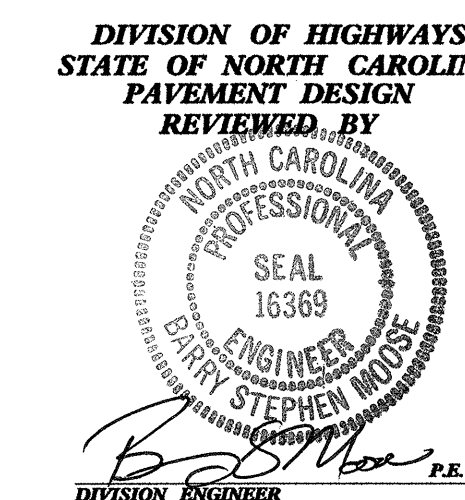


TYPICAL SECTION 1
-L-
STA. 11+25 TO 15+14
STA. 21+06 TO 24+99
STA. 26+66 TO 33+80

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 4.0" ASPHALT CONC. BINDER COURSE, I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(R1)	2'-6" CONC. CURB & GUTTER
(R2)	PROP. 5" MONOLITHIC ISLAND
(S1)	4" CONC. SIDEWALK
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(V)	MILLING EXISTING PAVEMENT 1.5" DEPTH

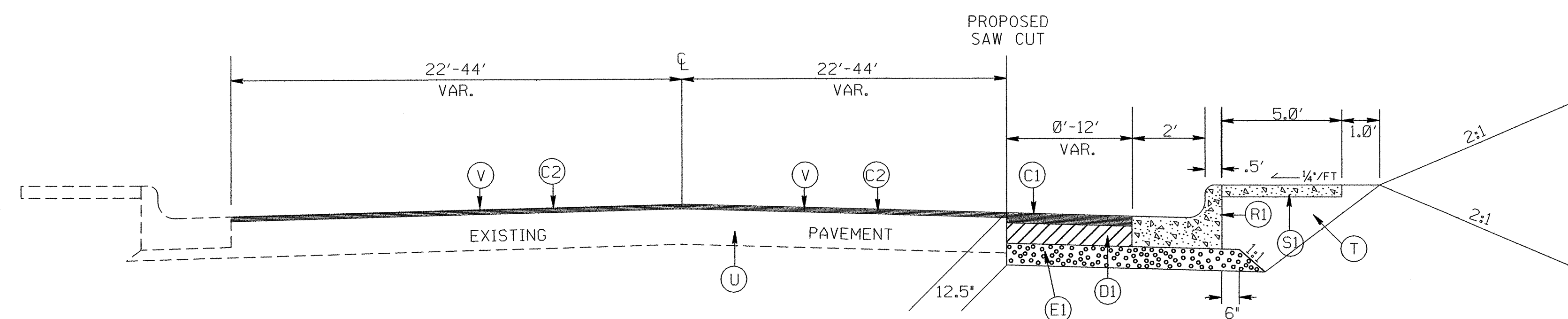
NOTE: EXTEND EXISTING SUPERELEVATIONS TO THE PROPOSED 2' 6" CURB & GUTTER
ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE



ALBEMARLE RD. WIDENING
(MECKLENBURG COUNTY)

SCALE	-NA-	REVISIONS
DATE	12-8-05	
DWG. BY	RWB	
DESIGN BY	RWB	
APPROVED	MPM	

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.		2A	
F.A. PROJECT NO.			

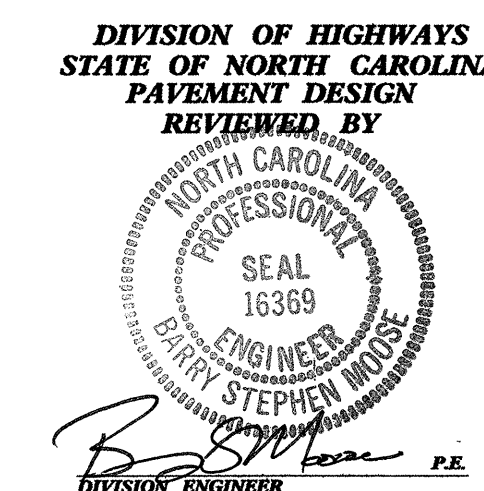


TYPICAL SECTION 4
-L-
STA. 42+00 TO 52+49.84

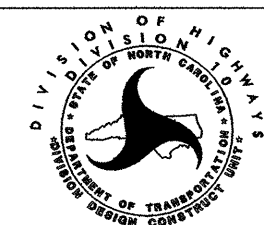
PAVEMENT SCHEDULE

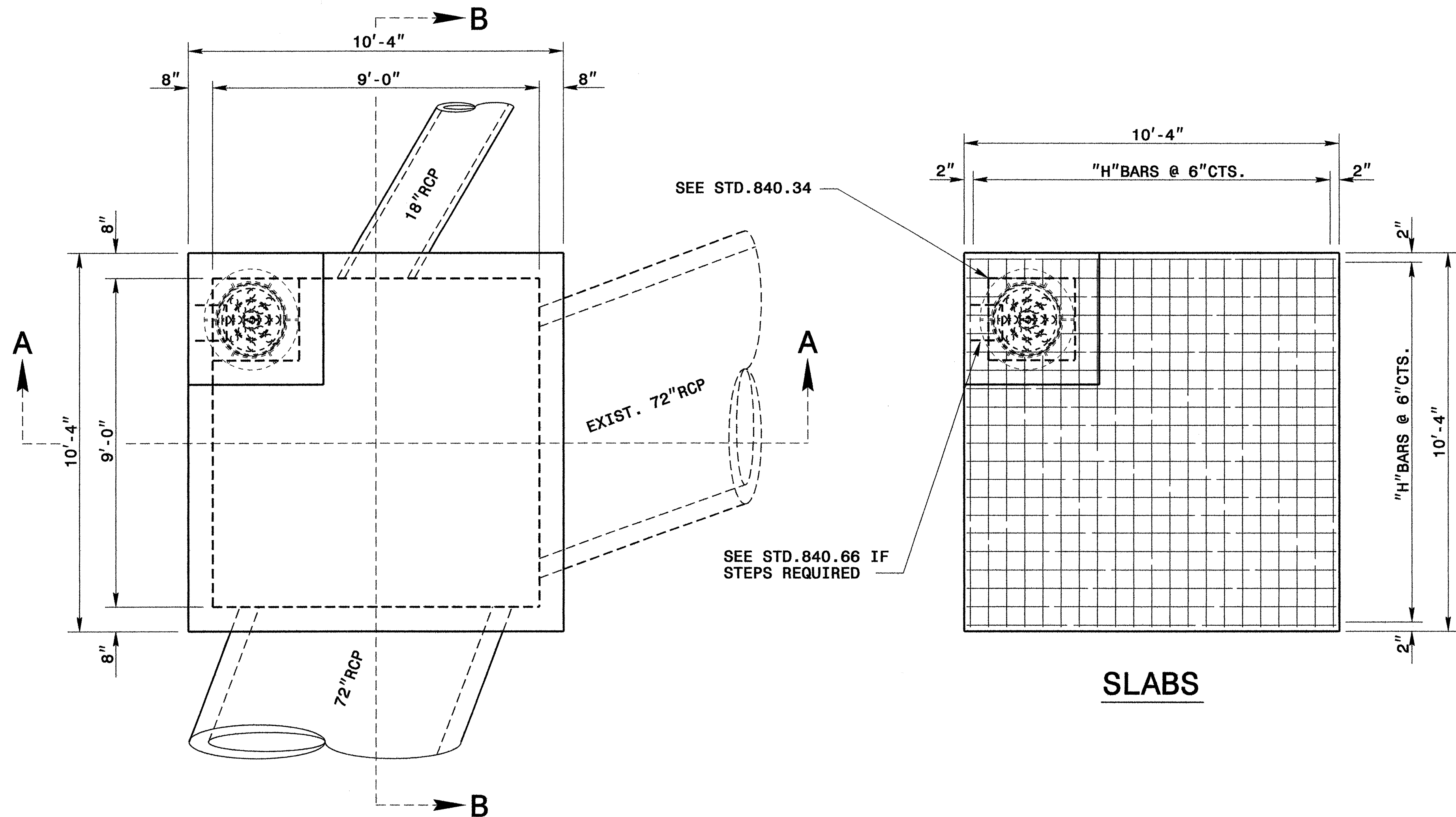
(C1)	PROP. APPROX. 3.0" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS
(C2)	PROP. APPROX. 1.5" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(D1)	PROP. APPROX. 4.0" ASPHALT CONC. BINDER COURSE, I19.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
(E1)	PROP. APPROX. 5.5" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 627 LBS. PER SQ. YD.
(R1)	2'-6" CONC. CURB & GUTTER
(R2)	PROP. 5" MONOLITHIC ISLAND
(S1)	4" CONC. SIDEWALK
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT
(V)	MILLING EXISTING PAVEMENT 1.5" DEPTH

NOTE: EXTEND EXISTING SUPERELEVATIONS TO THE PROPOSED 2' 6" CURB & GUTTER
ALL PAVEMENT EDGE SLOPES ARE 1:1 UNLESS SHOWN OTHERWISE

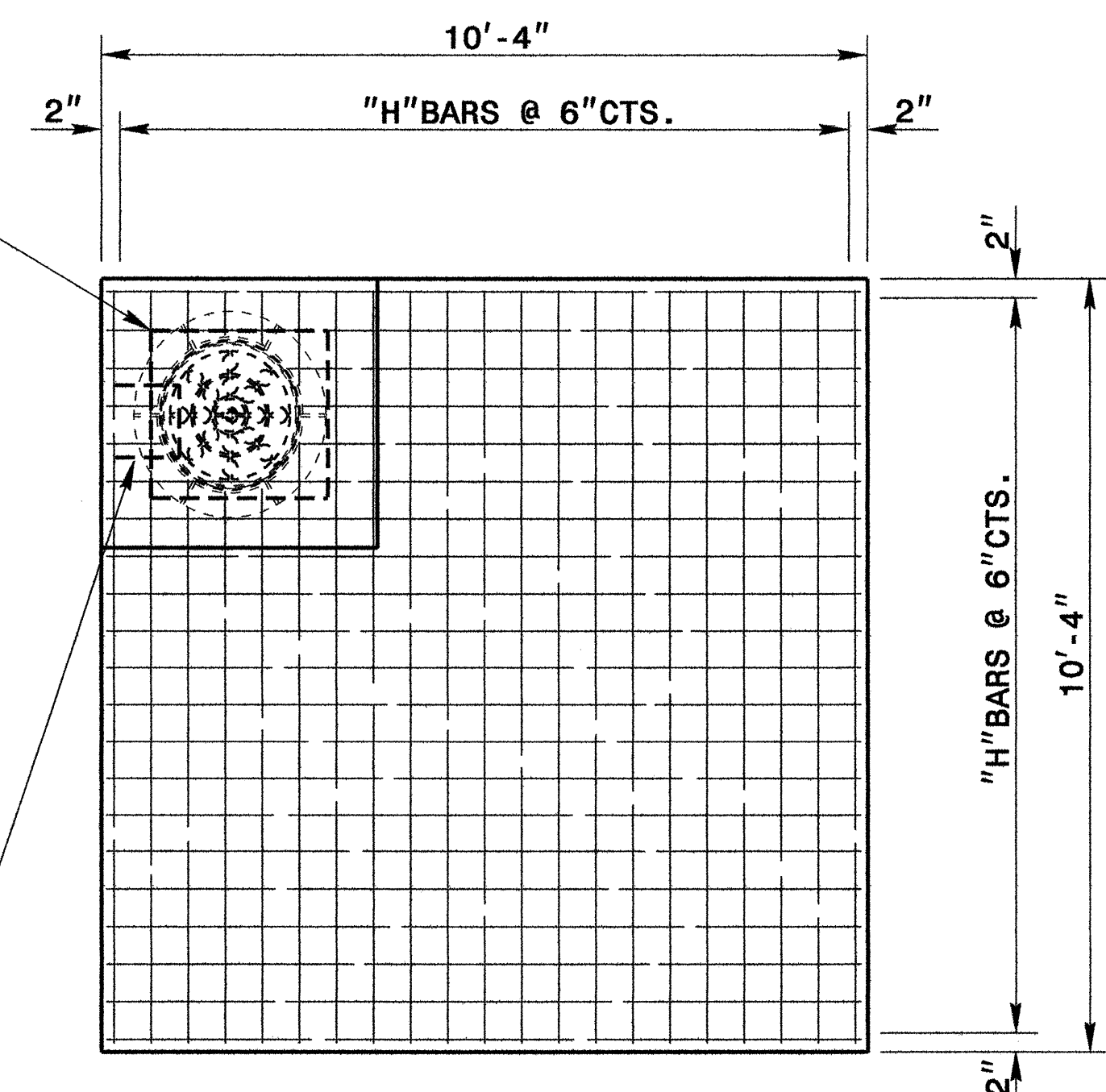


ALBEMARLE RD. WIDENING
(MECKLENBURG COUNTY)

SCALE	-NA-		REVISIONS	
DATE	12-8-05			
DWG. BY	RWB			
DESIGN BY	RWB			
APPROVED	MPM			



PLAN



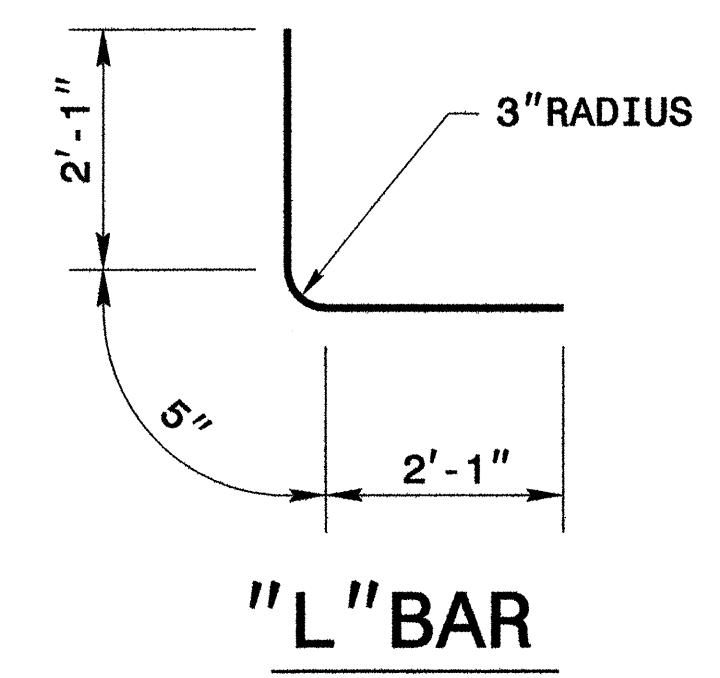
SLABS

GENERAL NOTES:

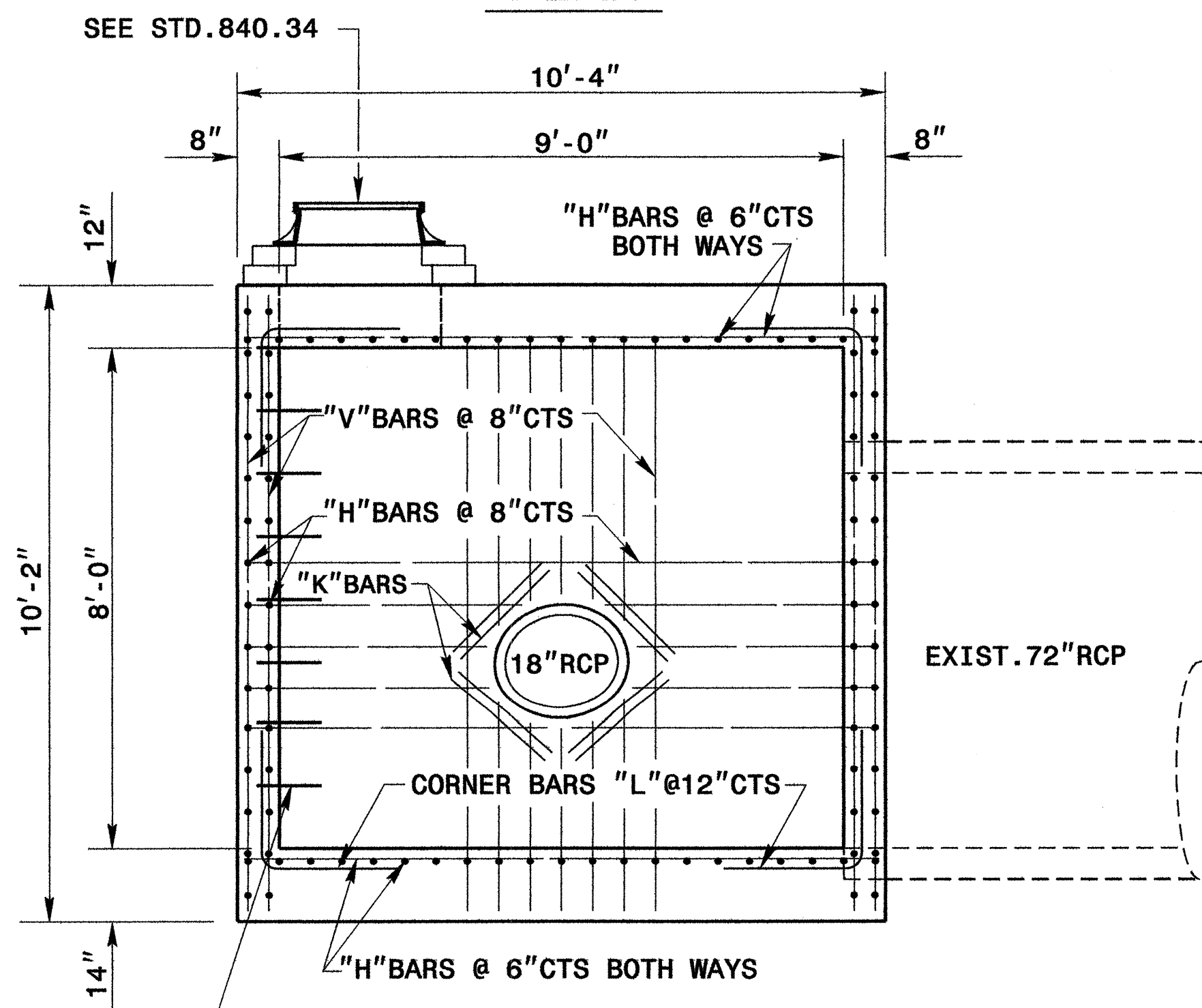
- THE BASE SLAB SHALL BE CONSTRUCTED BY FORMING.
- SEE STD. DWG. 840.00 FOR CONSTRUCTION OF BASE SLAB
- IF PIPE IS SET INTO BASE SLAB.
- CLASS 'B' CONCRETE SHALL BE USED THROUGHOUT.
- CONSTRUCTION OPTIONS: MONOLITHIC POUR; CONSTRUCTION JOINTS AT UNION OF WALLS WITH FLOOR AND/OR TOP SLAB.
- REINFORCING STEEL SHALL BE CUT, BENT OR RELOCATED TO POSITION PIPE AS DIRECTED BY THE ENGINEER.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 1".
- SEE STD. DRAWING 840.34 FOR CONSTRUCTION OF RISER AND MANHOLE.
- JUNCTION BOXES OVER 3'-6" IN DEPTH WITH MANHOLES SHALL REQUIRE STEPS TO BE PLACED ON 12" CTRS. REFERENCE STD. NO. 840.66.

BILL OF MATERIAL

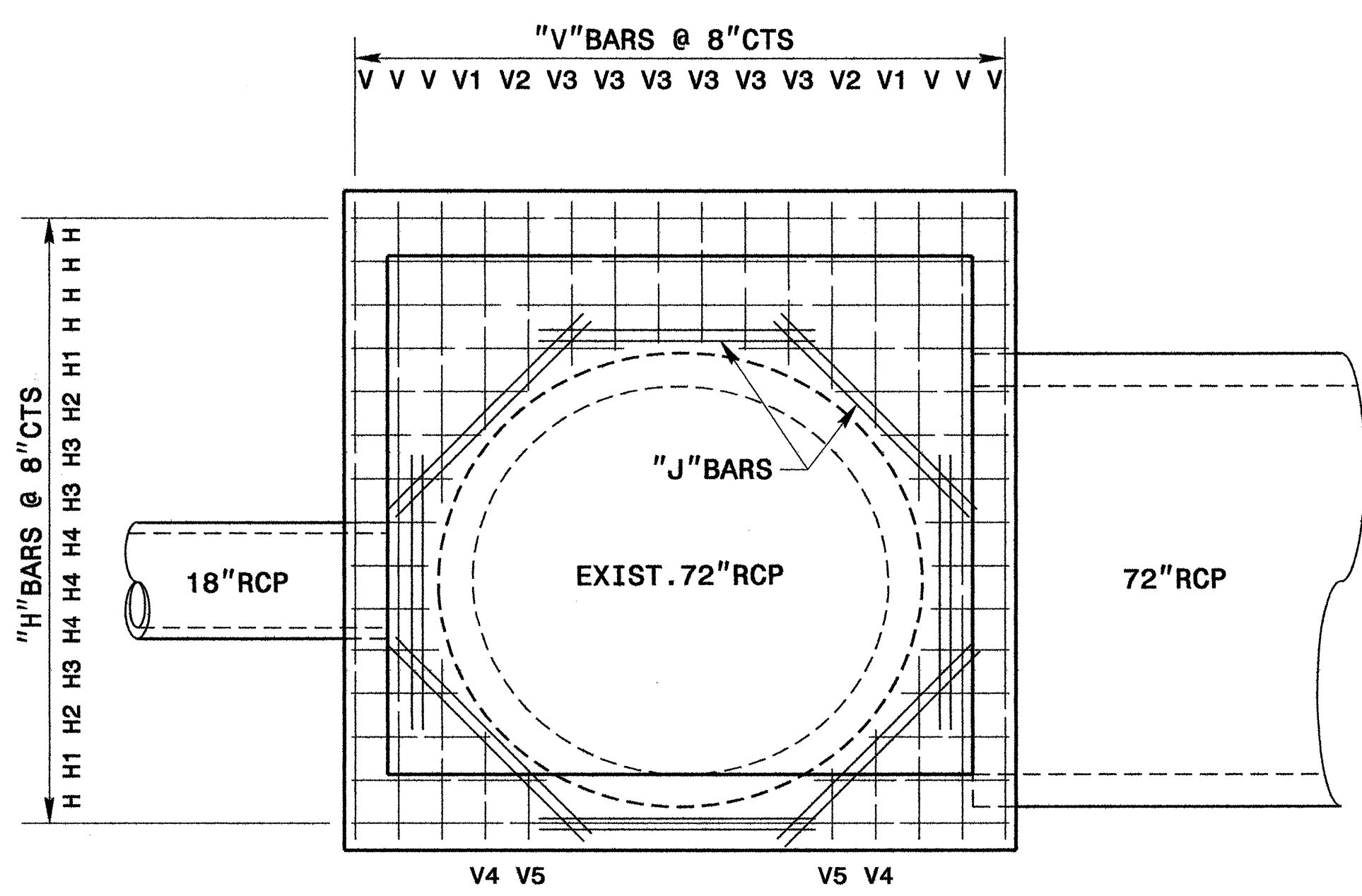
CODE	BAR#	LENGTH	LBS/FT.	QTY.	LBS/ST.
H	4	10'-0"	0.668	164	1095.9
H1	4	2'-6"	0.668	16	26.7
H2	4	2'-0"	0.668	16	21.4
H3	4	1'-6"	0.668	24	24.0
H4	4	1'-2"	0.668	24	18.7
V	4	9'-10"	0.668	108	709.4
V1	4	3'-6"	0.668	8	18.7
V2	4	2'-9"	0.668	8	14.7
V3	4	2'-2"	0.668	24	34.7
V4	4	1'-6"	0.668	8	8.0
V5	4	1'-2"	0.668	8	6.2
J	4	4'-3"	0.668	64	181.7
K	4	2'-0"	0.668	16	21.4
L	4	4'-7"	0.668	80	244.9
TOTAL WEIGHT STEEL					2426.4
MASONRY QUANTITIES					
CLASS "A" CONCRETE					16.2 CU.YDS.
PIPE DEDUCTIONS					
1-18" RCP					-0.1 CU.YD.
2-72" RCP					-2.0 CU.YDS.
TOTAL CLASS "A" CONCRETE					14.1 CU.YDS.



"L" BAR

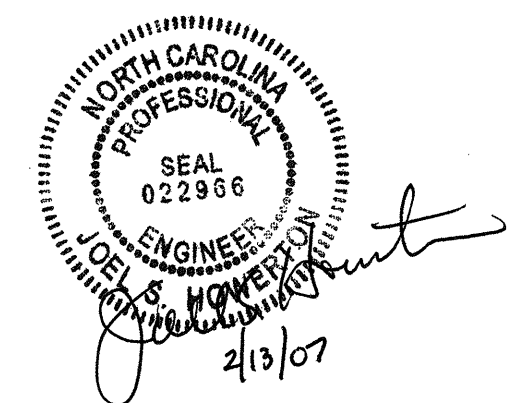


SECTION A-A



SECTION B-B

SEE STD.840.66 IF STEPS REQUIRED



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

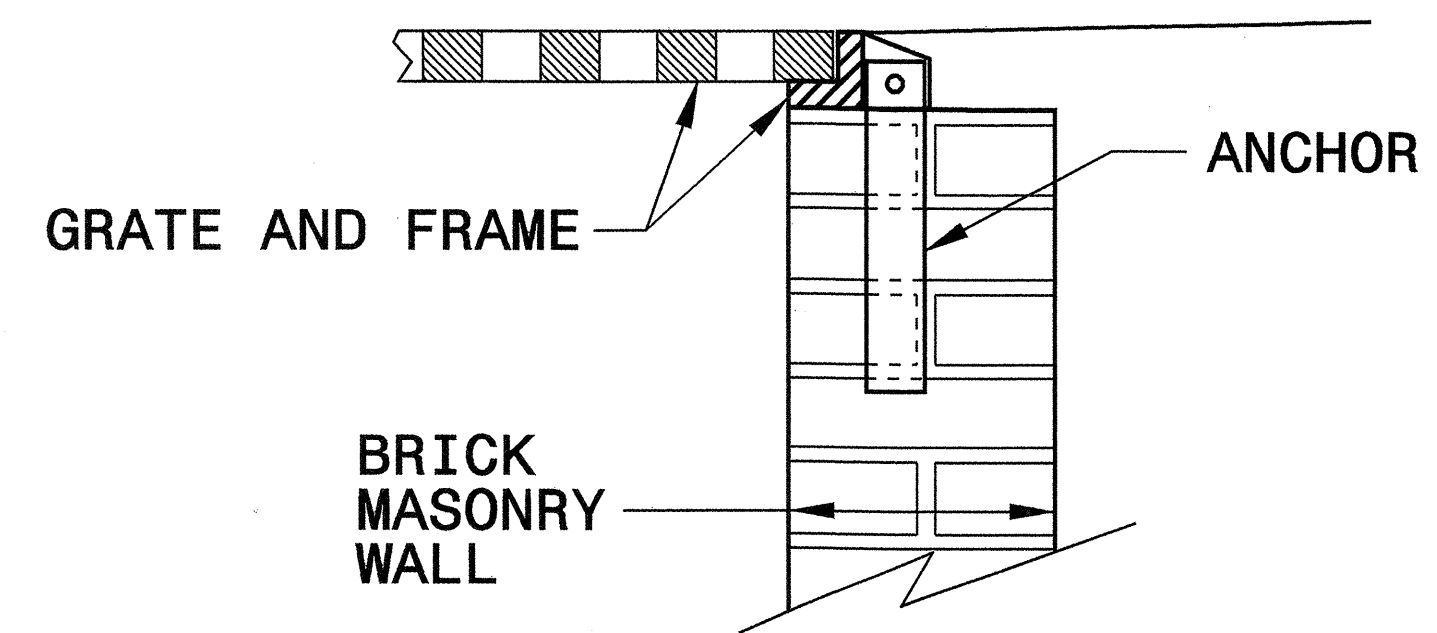
**DETAIL OF
SPECIAL JUNCTION BOX**

ORIGINAL BY: _____ DATE: _____
 MODIFIED BY: rnbritt DATE: 12-09-05
 CHECKED BY: *Paul S. Britt* DATE: _____
 FILE SPEC.: de@ails/nbritt/eng1ish/hydro/72jbvarsk.dgn

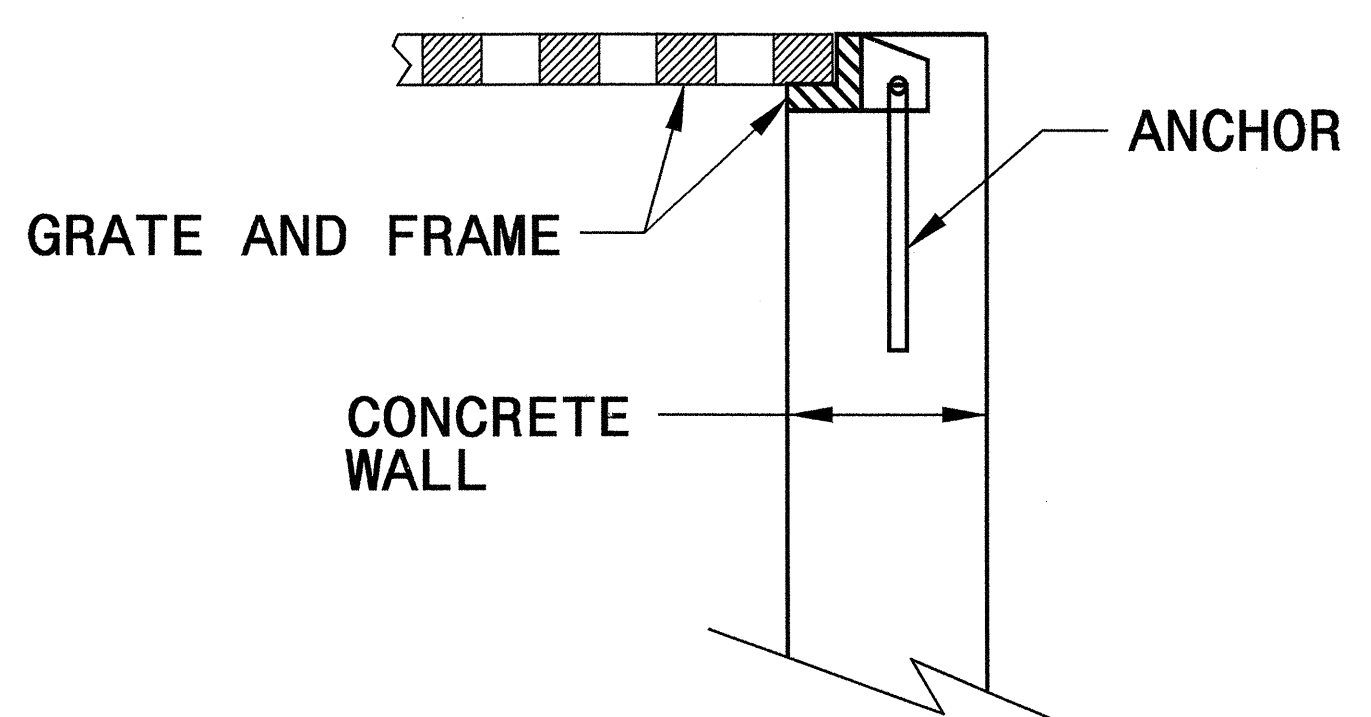
STATE OF
NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
RALEIGH, N.C.

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

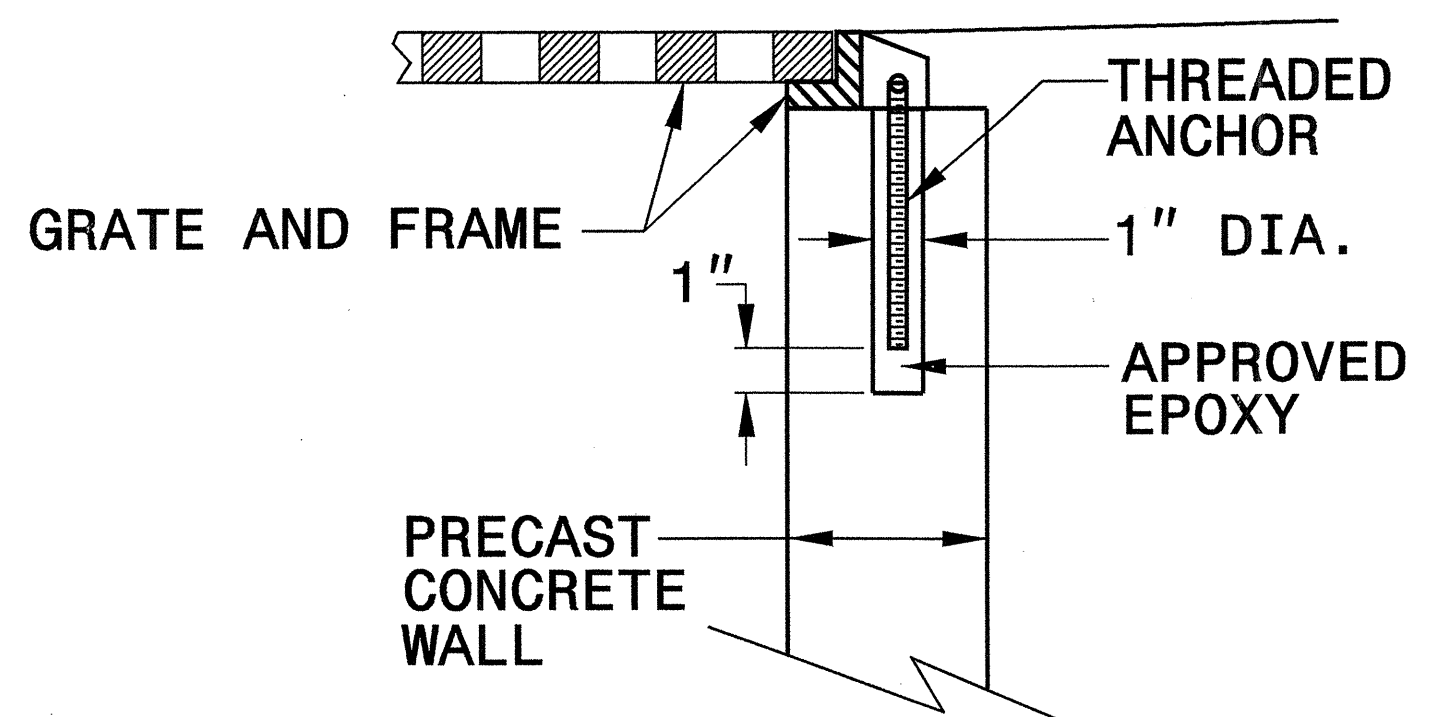
SHEET 1 OF 1
840D25



**BRICK MASONRY
CONSTRUCTION**



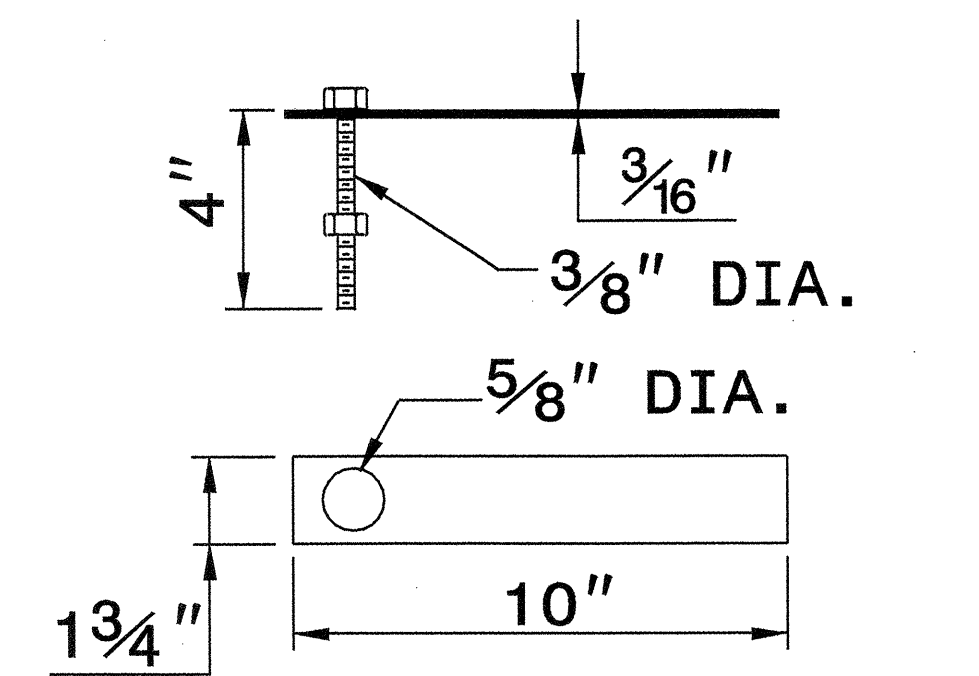
**CONCRETE
CONSTRUCTION**



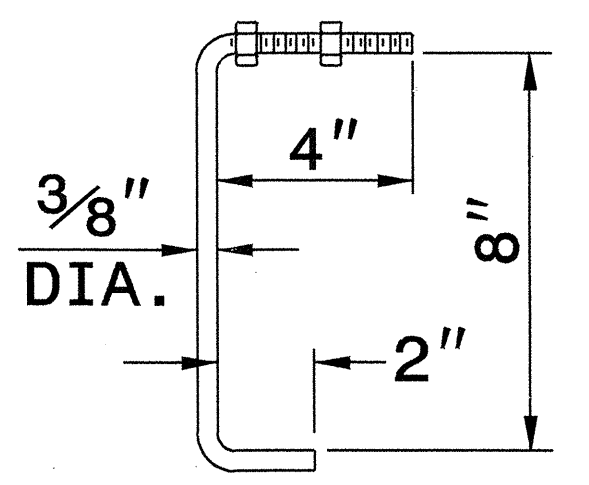
**PRECAST CONCRETE
CONSTRUCTION**

**DETAIL SHOWING ANCHORAGE OF
FRAME FOR GRATED DROP INLET**

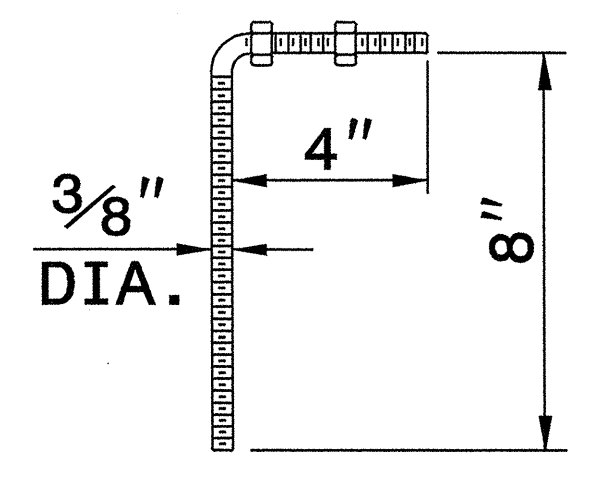
NOTE:
CONSTRUCT GRATED DROP INLET TO COINCIDE WITH NORMAL
OR SUPERELEVATED SHOULDER OR PAVEMENT SLOPE.



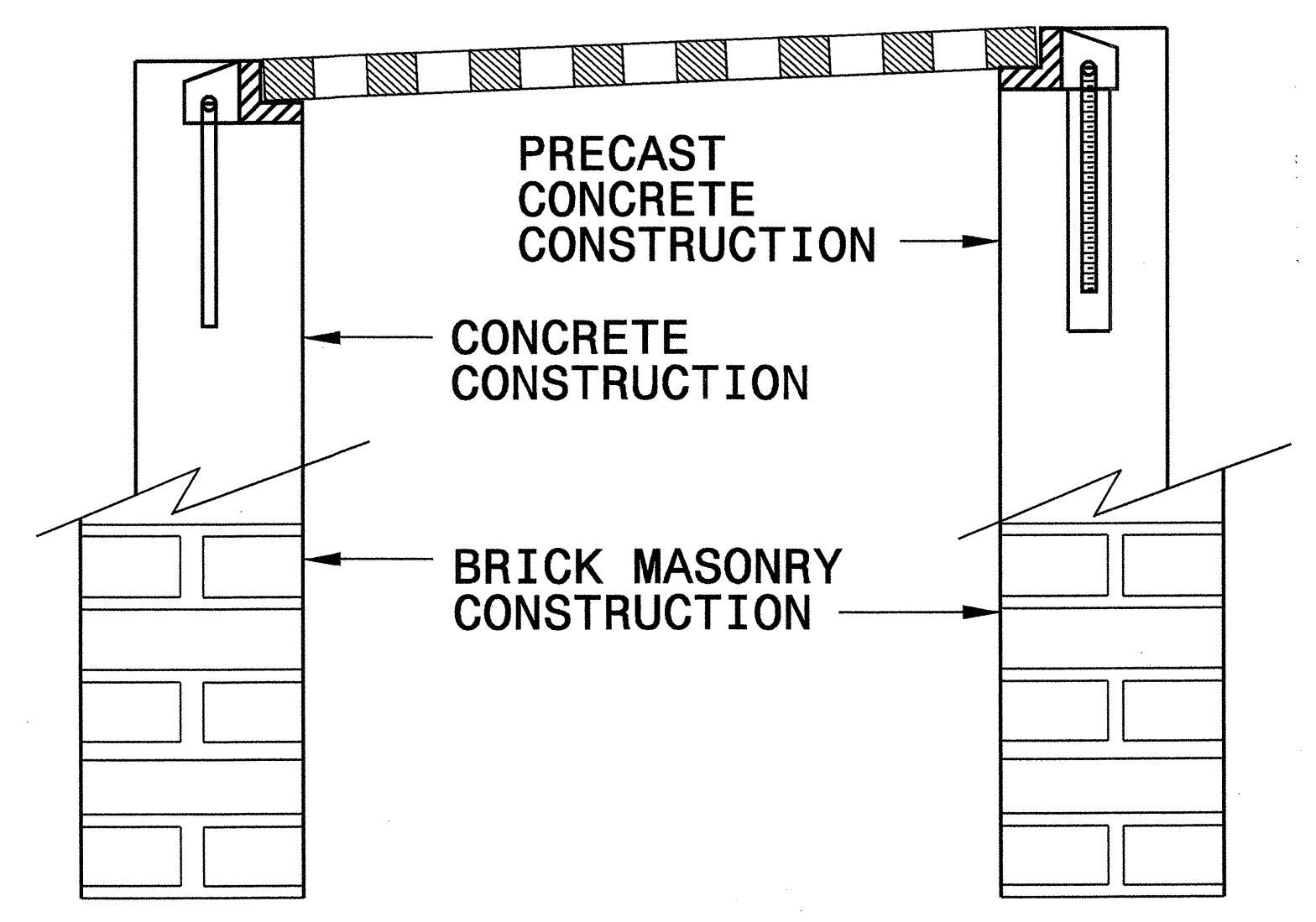
MASONRY ANCHOR
3/8" DIA. BOLT WITH PLATE



CONCRETE ANCHOR
3/8" DIA. BENT BAR



**PRECAST
CONCRETE ANCHOR**
3/8" DIA. BENT BAR



**FRAME AND GRATE INSTALLATION
FOR NORMAL CROWN AND
SUPERELEVATED SECTIONS**

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

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

SHEET 1 OF 1
840D25

27-SEP-2006 09:01 S:\Contracts\Conf\stds\Special_Details\ertward\stds\06_Std to Special_Details\840D25 Anchorage for Frames\0840d25.dgn ericward AT F522293



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

SEE PLATE FOR TITLE

ORIGINAL BY: 2006 STD 840.25 DATE: 07/18/06
MODIFIED BY: E.E. WARD DATE: 9/25/06
CHECKED BY: Paul S. Hunt DATE: 9/27/06
FILE SPEC.:

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

SUMMARY OF QUANTITIES

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS ROADWAY SUMMARY OF QUANTITIES FOR CONTRACT - C201462														
ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description	ItemNumber	Sec #	Quantity	Unit	Description
0000100000-N	800	Lump Sum		MOBILIZATION	2374000000-N	840	10	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (F)	4725000000-E	1205	84	EA	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)
0043000000-N	226	Lump Sum		GRADING	2374000000-N	840	6	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (G)	4810000000-E	1205	10,778	LF	PAINT PAVEMENT MARKING LINES (4")
0050000000-E	226	1	ACR	SUPPLEMENTARY CLEARING & GRUB-BING	2473000000-N	SP	20	EA	GENERIC DRAINAGE ITEM BREAKDOWN & REMOVE EXISTING DRAINAGE STRUCTURES	4820000000-E	1205	120	LF	PAINT PAVEMENT MARKING LINES (8")
0057000000-E	226	500	CY	UNDERCUT EXCAVATION	2549000000-E	846	3,750	LF	2'-6" CONCRETE CURB & GUTTER	4835000000-E	1205	1,223	LF	PAINT PAVEMENT MARKING LINES (24")
0318000000-E	300	58	TON	FOUNDATION CONDITIONING MATERIAL, MINOR STRS	2591000000-E	848	2,300	SY	4" CONCRETE SIDEWALK	4845000000-N	1205	84	EA	PAINT PAVEMENT MARKING SYMBOL
0366000000-E	310	304	LF	15" RC PIPE CULVERTS, CLASS III	2605000000-N	848	10	EA	CONCRETE WHEELCHAIR RAMPS	4850000000-E	1205	1,000	LF	REMOVAL OF PAVEMENT MARKING LINES (4")
0372000000-E	310	36	LF	18" RC PIPE CULVERTS, CLASS III	2612000000-E	848	760	SY	6" CONCRETE DRIVEWAY	4860000000-E	1205	250	LF	REMOVAL OF PAVEMENT MARKING LINES (8")
0390000000-E	310	8	LF	36" RC PIPE CULVERTS, CLASS III	2655000000-E	852	430	SY	5" MONOLITHIC CONCRETE ISLANDS (KEYED IN)	4870000000-E	1205	50	LF	REMOVAL OF PAVEMENT MARKING LINES (24")
0426000000-E	310	48	LF	72" RC PIPE CULVERTS, CLASS III	2830000000-N	858	5	EA	ADJUSTMENT OF MANHOLES	4875000000-N	1205	10	EA	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS
0995000000-E	340	183	LF	PIPE REMOVAL	2845000000-N	858	3	EA	ADJUSTMENT OF METER BOXES OR VALVE BOXES	4900000000-N	1251	307	EA	PERMANENT RAISED PAVEMENT MARKERS
1220000000-E	545	100	TON	INCIDENTAL STONE BASE	2905000000-N	859	1	EA	CONVERT EXISTING DROP INLET TO JUNCTION BOX	5648000000-N	1515	3	EA	RELOCATE WATER METER
1297000000-E	607	34,422	SY	MILLING ASPHALT PAVEMENT, *** DEPTH (1-1/2")	3628000000-E	876	50	TON	RIP RAP, CLASS 1	5672000000-N	1515	3	EA	RELOCATE FIRE HYDRANT
1491000000-E	610	2,422	TON	ASPHALT CONC BASE COURSE, TYPE B25.0C	3656000000-E	876	85	SY	FILTER FABRIC FOR DRAINAGE	5882000000-N	SP	2	EA	GENERIC UTILITY ITEM RELOCATE EXISTING WATER VAULT
1503000000-E	610	1,410	TON	ASPHALT CONC INTERMEDIATE COURSE, TYPE I19.0C	4400000000-E	1110	360	SF	WORK ZONE SIGNS (STATIONARY)	6000000000-E	1605	925	LF	TEMPORARY SILT FENCE
1523000000-E	610	3,700	TON	ASPHALT CONC SURFACE COURSE, TYPE S9.5C	4405000000-E	1110	96	SF	WORK ZONE SIGNS (PORTABLE)	6009000000-E	1610	100	TON	STONE FOR EROSION CONTROL, CLASS B
1560000000-E	620	171	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 64-22	4415000000-N	1115	2	EA	FLASHING ARROW PANELS, TYPE C	6012000000-E	1610	200	TON	SEDIMENT CONTROL STONE
1565000000-E	620	222	TON	ASPHALT BINDER FOR PLANT MIX, GRADE PG 70-22	4420000000-N	1120	1	EA	CHANGEABLE MESSAGE SIGN	6030000000-E	1630	10	CY	SILT EXCAVATION
2286000000-N	840	40	EA	MASONRY DRAINAGE STRUCTURES	4430000000-N	1130	188	EA	DRUMS	6042000000-E	1632	500	LF	1/4" HARDWARE CLOTH
2297000000-E	840	14.1	CY	MASONRY DRAINAGE STRUCTURES	4480000000-N	1165	2	EA	TMA	6084000000-E	1660	2.5	ACR	SEEDING & MULCHING
2308000000-E	840	3	LF	MASONRY DRAINAGE STRUCTURES	4510000000-N	SP	240	HR	POLICE					
2364000000-N	840	2	EA	FRAME WITH TWO GRATES, STD 840.16	4516000000-N	1180	132	EA	SKINNY DRUM					
2374000000-N	840	4	EA	FRAME WITH GRATE & HOOD, STD 840.03, TYPE ** (E)	4686000000-E	1205	10,778	LF	THERMOPLASTIC PAVEMENT MARKING LINES (4", 120 MILS)					
					4695000000-E	1205	120	LF	THERMOPLASTIC PAVEMENT MARKING LINES (8", 90 MILS)					
					4710000000-E	1205	1,223	LF	THERMOPLASTIC PAVEMENT MARKING LINES (24", 120 MILS)					

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 10/10/2007 10:00:00 AM

6/21/00

COMPUTED BY: TWB DATE: 403
 CHECKED BY: RWB DATE: 403

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS

PROJECT REFERENCE NO. U-3603
 SHEET NO. 3C

RIGHT OF WAY AREA DATA

PARCEL NO.	PROPERTY OWNERS NAMES	TOTAL ACREAGE	AREA TAKEN	AREA REMAINING RT.	AREA REMAINING LT.	CONST. EASE.	PERM. DRAIN. EASE.	TEMP. DRAIN. EASE.
1	L.P. CHRISTENSEN	1.26 AC	1415 S.F.	1.23 AC				
2	FIRETHORNE XII LLC.	12.47 AC	850 S.F.	12.45 AC				
3	LYNDELL D. THOMPSON	0.87 AC	0 S.F.	0.87 AC				6500 S.F.

SUMMARY OF EARTHWORK
 IN CUBIC YARDS

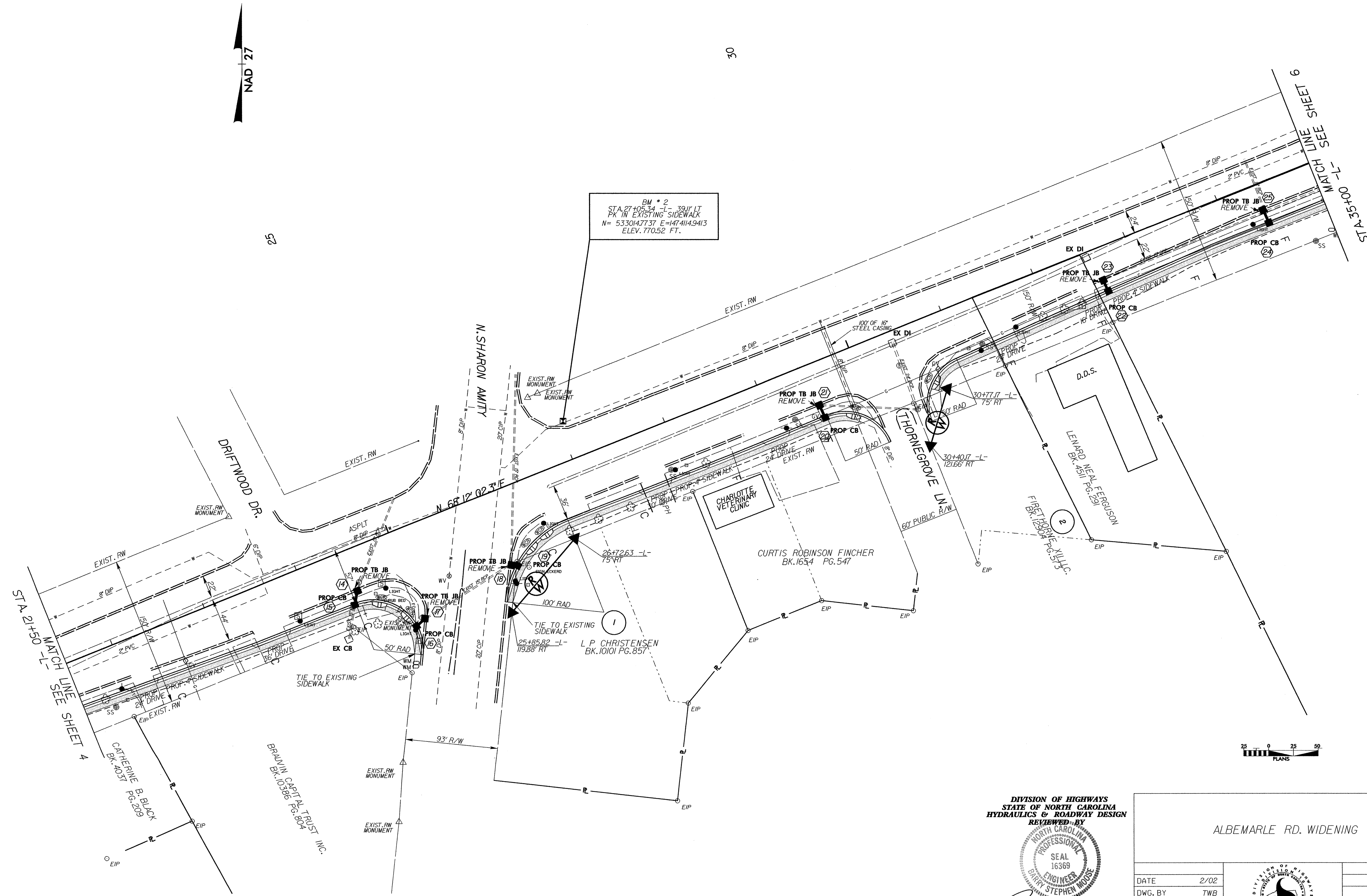
LOCATION	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBT + %	BORROW	WASTE
STA. 11+25 TO STA. 41+50	3,734		449		3,285
STA. 41+50 TO STA. 52+49.84	917		512		405
PROJECT TOTAL	4,651		961		3,690
SAY	4,700				3,700

UNDERCUT SAY 500CY

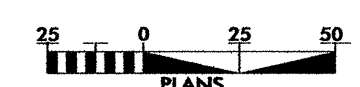
NOTE: UNCLASSIFIED EXCAVATION, BORROW, FINE GRADING, CLEARING & GRUBBING, BREAKING OF EXISTING PAVEMENT AND REMOVAL OF EXISTING PAVEMENT WILL BE PAID FOR AT THE LUMP SUM PRICE FOR GRADING.

05-FEB-2007 09:40
 By: jason
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STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3603	5	
F.A. PROJECT NO.			



BM * 2
 STA 27+05.34 -L- 39' LT
 PK IN EXISTING SIDEWALK
 N= 5330147737 E=14741149413
 ELEV. 770.52 FT.



DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 HYDRAULICS & ROADWAY DESIGN

REVIEWED BY

 B.S.M. P.E.
 DIVISION ENGINEER

ALBEMARLE RD. WIDENING

DATE	REVISIONS
2/02	
DWG. BY TWB	
DESIGN BY RWB	
APPROVED MPM	

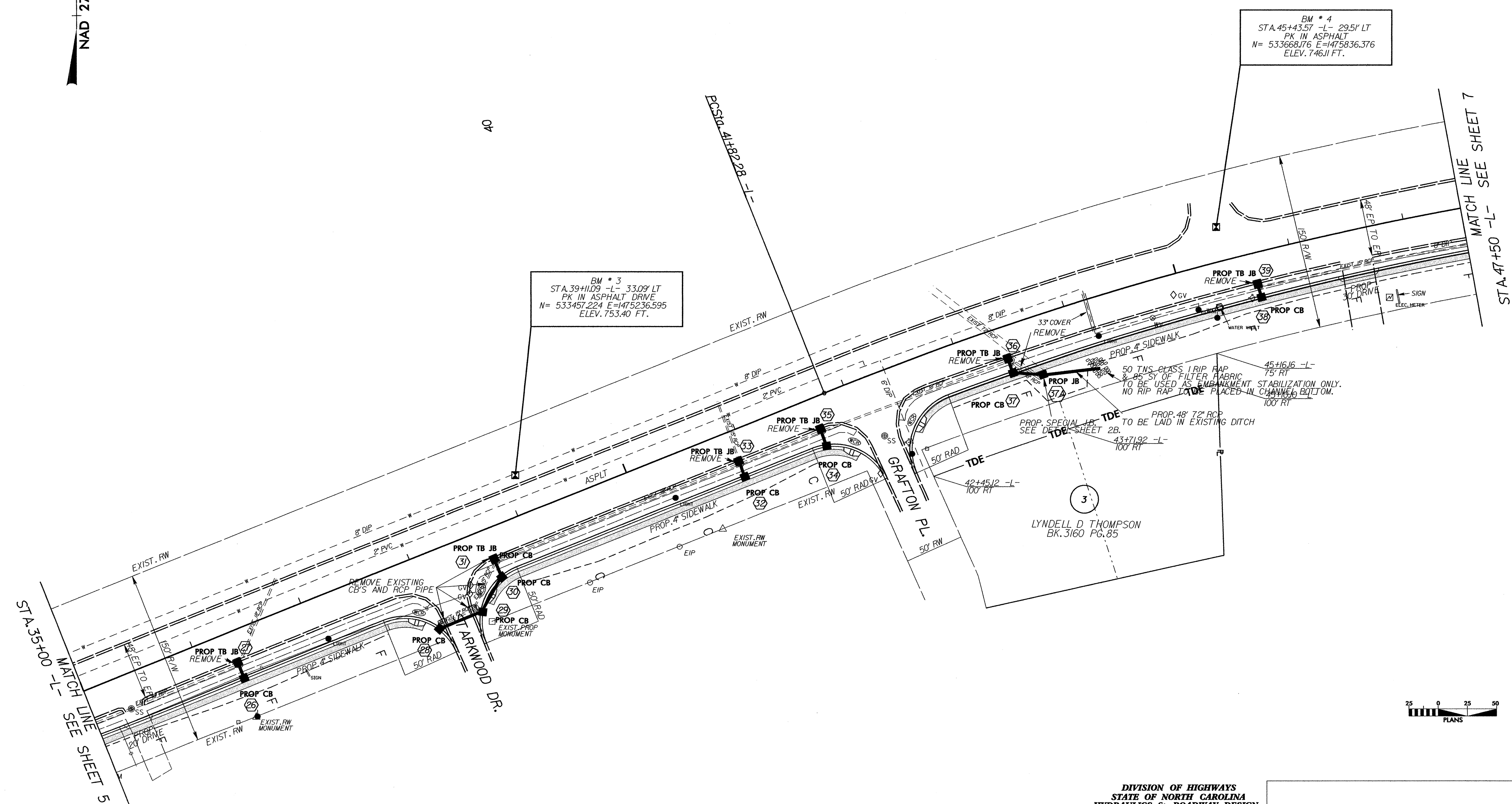
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N.C.	U-3603	6	
F.A. PROJECT NO.			



35

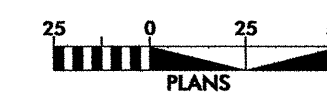
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BM * 3
STA 39+10.9 -L- 33.09' LT
PK IN ASPHALT DRIVE
N= 533457.224 E=1475236.595
ELEV. 753.40 FT.

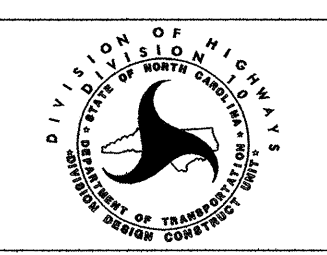
BM * 4
STA 45+43.57 -L- 29.51' LT
PK IN ASPHALT
N= 533668.176 E=1475836.376
ELEV. 746.11 FT.



DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA
HYDRAULICS & ROADWAY DESIGN
REVIEWED BY
NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 16369
BARRY STEPHEN MOORE
P.E.
DIVISION ENGINEER

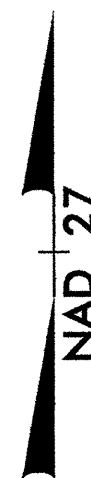
ALBEMARLE RD. WIDENING

DATE	12/05
DWG. BY	TWB
DESIGN BY	RWB
APPROVED	MPM



REVISIONS	

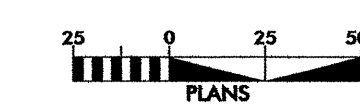
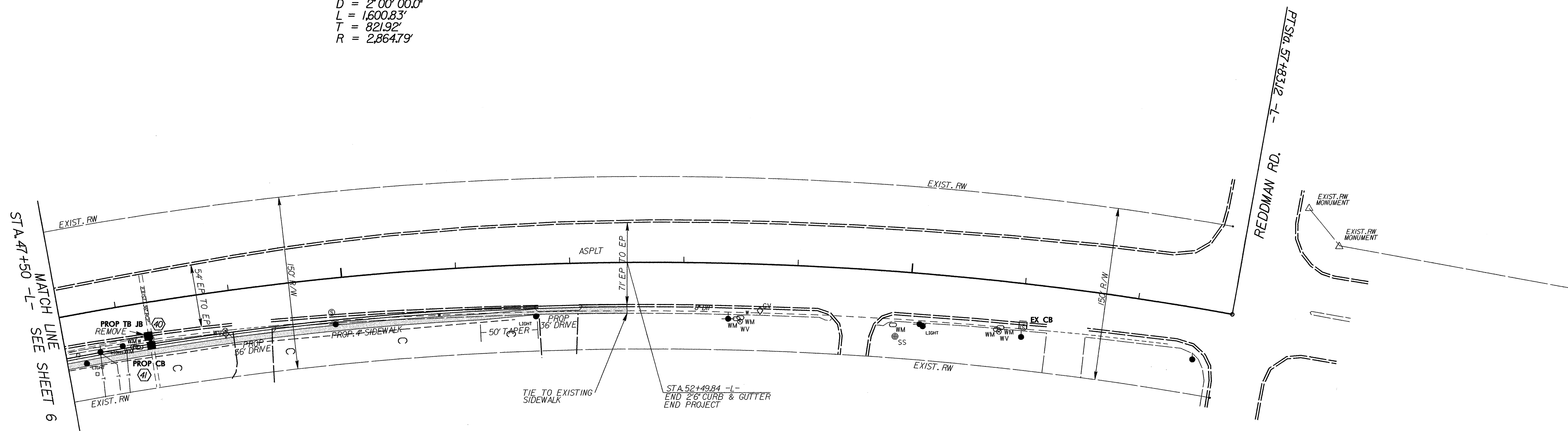
STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	U-3603	7	
F.A. PROJECT NO.			



50

55

-L-
 PI Sta 50+04.20
 $\Delta = 32^{\circ} 01' 00.1''$ (RT)
 $D = 2^{\circ} 00' 00.0''$
 $L = 1600.83'$
 $T = 821.92'$
 $R = 2,864.79'$



DIVISION OF HIGHWAYS
 STATE OF NORTH CAROLINA
 HYDRAULICS & ROADWAY DESIGN
 REVIEWED BY
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 16369
 STEPHEN MOUSE
 DIVISION ENGINEER

ALBEMARLE RD. WIDENING

DATE	2/02	REVISIONS
DWG. BY	TWB	
DESIGN BY	RWB	
APPROVED	MPM	

