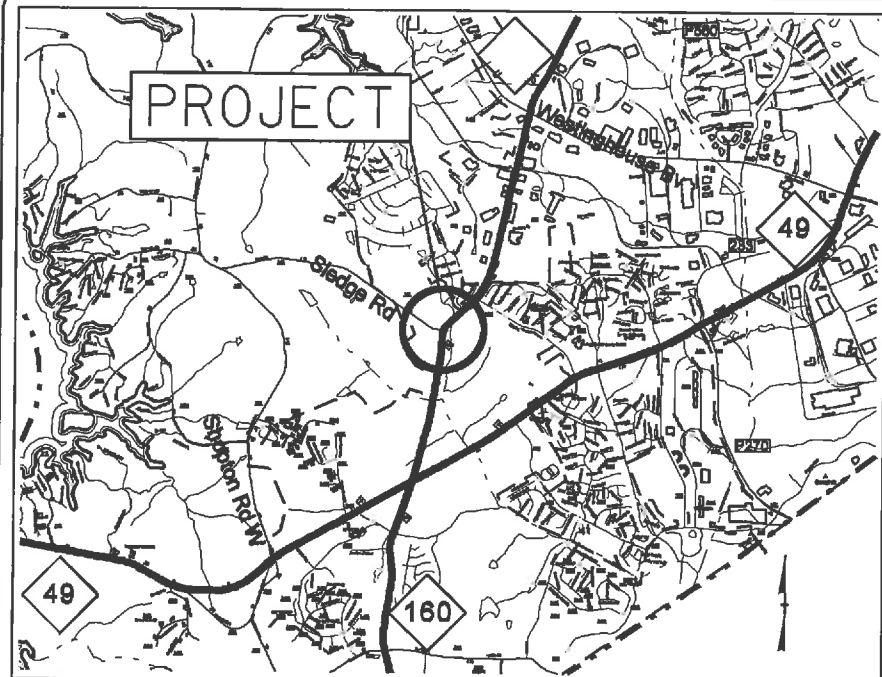


**PROJECT: 42213**

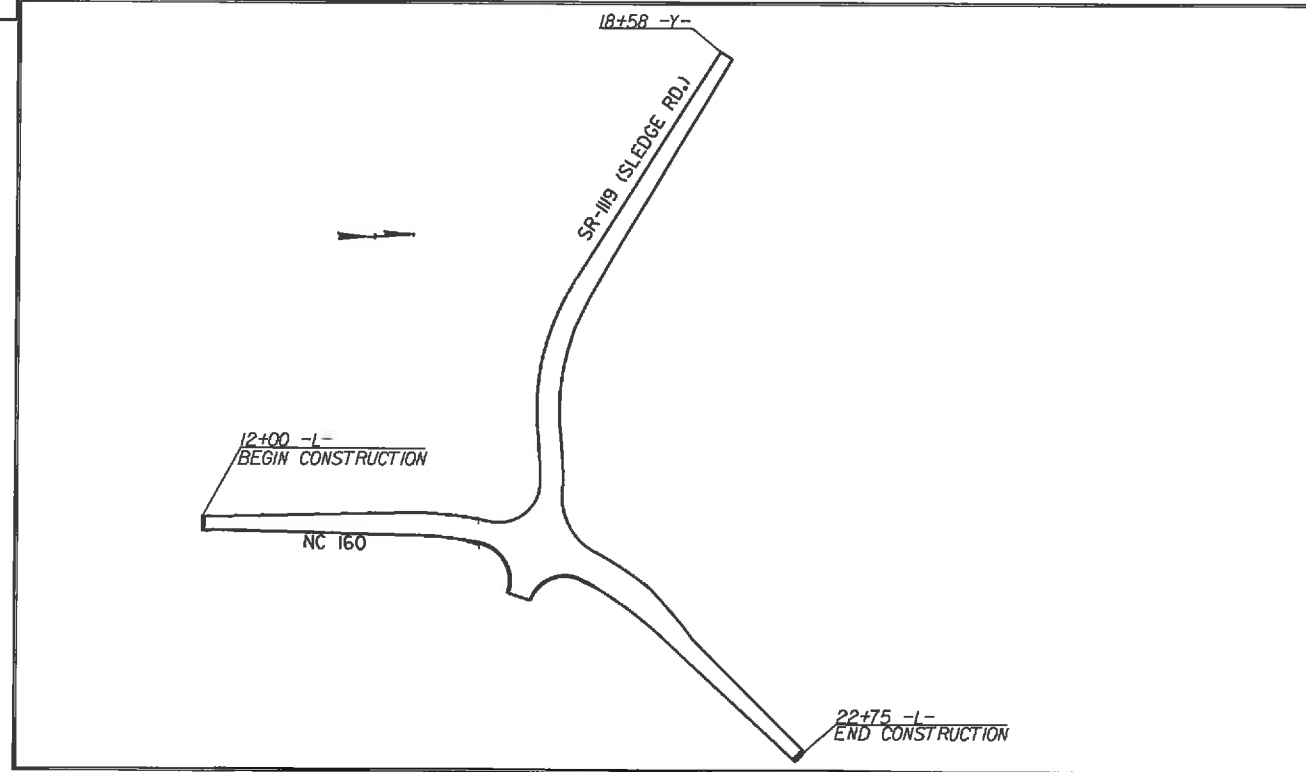


VICINITY MAP

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS  
**MECKLENBURG COUNTY**

**LOCATION:** INTERSECTION OF NC160 (STEELE CREEK RD)  
& SR-1119 (SLEDGE RD)

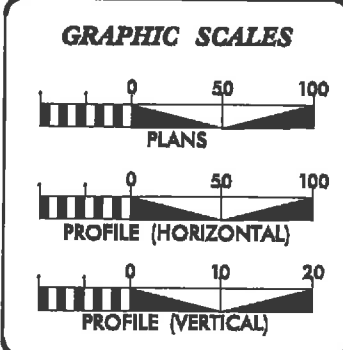
**TYPE OF WORK:** GRADING, PAVING, DRAINAGE, PAVEMENT REMOVAL,  
& THERMOPLASTIC PAVEMENT MARKINGS



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	42213	1	
STATE PROJECT NO.	P.A. PROJECT NO.	DESCRIPTION	
42213.1		P.E.	
42213.2		R/W	
42213.3		CONST.	

**PRELIMINARY PLANS**  
DO NOT USE FOR CONSTRUCTION

**CLEARING ON THIS PROJECT SHALL BE TO THE LIMITS ESTABLISHED BY METHOD II AS DESCRIBED IN THE NCDOT STANDARD DRAWINGS UNLESS OTHERWISE NOTED ON THE PLANS.**



**DESIGN DATA**

ADT 2008 =	13,000
ADT 2018 =	15,900
DHV =	10 %
D =	%
T =	%
V =	50 MPH

**PROJECT LENGTH**

LENGTH OF ROADWAY PROJECT 42213	=	0.37 MILES
TOTAL LENGTH OF STATE PROJECT 42213	=	0.37 MILES

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

---

2006 STANDARD SPECIFICATIONS

<p><b>RIGHT OF WAY DATE:</b></p> <hr/> <p><b>LETTING DATE:</b> SEPTEMBER 19, 2012</p>	<p><b>RANDY BOWERS</b> PROJECT ENGINEER</p> <hr/> <p><b>TERRY BURLESON</b> PROJECT DESIGN ENGINEER</p>
---	--



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

APPROVED BY \_\_\_\_\_ DATE \_\_\_\_\_  
DUC ENGINEER

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	⊙
Property Corner	⊗
Property Monument	⊠
Parcel/Sequence Number	Ⓢ
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	-o-o-o-
Proposed Chain Link Fence	-□-□-□-
Proposed Barbed Wire Fence	-◇-◇-◇-
Existing Wetland Boundary	-WJ-
Proposed Wetland Boundary	-WJ-
Existing Endangered Animal Boundary	-EAB-
Existing Endangered Plant Boundary	-EPB-

**BUILDINGS AND OTHER CULTURE:**

Gas Pump Vent or UG Tank Cap	○
Sign	⊙
Well	⊕
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	WJ
Proposed Lateral, Tail, Head Ditch	-----
False Sump	-----

**RAILROADS:**

Standard Gauge	-----
RR Signal Milepost	⊙
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 Drainage / Utility Easement	-DUE-
Proposed Permanent Utility Easement	-PUE-
Proposed Temporary Utility Easement	-TUE-
Proposed Aerial Utility Easement	-AUE-
Proposed Permanent Easement with Iron Pin and Cap Marker	◆

**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
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	⊠

**EXISTING STRUCTURES:**

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

**UTILITIES:**

<b>POWER:</b>	
Existing Power Pole	⊙
Proposed Power Pole	⊙
Existing Joint Use Pole	⊙
Proposed Joint Use Pole	⊙
Power Manhole	⊙
Power Line Tower	⊠
Power Transformer	⊠
UG Power Cable Hand Hole	⊙
H-Frame Pole	⊙
Recorded UG Power Line	-----
Designated UG Power Line (S.U.E.*)	-----

**TELEPHONE:**

Existing Telephone Pole	⊙
Proposed Telephone Pole	⊙
Telephone Manhole	⊙
Telephone Booth	⊠
Telephone Pedestal	⊠
Telephone Cell Tower	⊙
UG Telephone Cable Hand Hole	⊙
Recorded UG Telephone Cable	-----
Designated UG Telephone Cable (S.U.E.*)	-----
Recorded UG Telephone Conduit	-----
Designated UG Telephone Conduit (S.U.E.*)	-----
Recorded UG Fiber Optics Cable	-----
Designated UG Fiber Optics Cable (S.U.E.*)	-----

**WATER:**

Water Manhole	⊙
Water Meter	⊙
Water Valve	⊙
Water Hydrant	⊙
Recorded UG Water Line	-----
Designated UG Water Line (S.U.E.*)	-----
Above Ground Water Line	A/G Water

**TV:**

TV Satellite Dish	⊙
TV Pedestal	⊠
TV Tower	⊙
UG TV Cable Hand Hole	⊙
Recorded UG TV Cable	-----
Designated UG TV Cable (S.U.E.*)	-----
Recorded UG Fiber Optic Cable	-----
Designated UG Fiber Optic Cable (S.U.E.*)	-----

**GAS:**

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

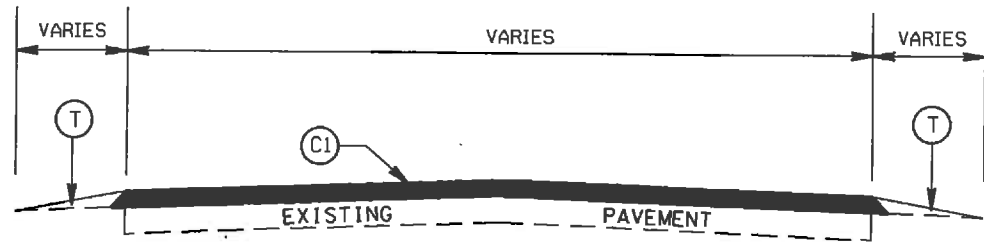
**SANITARY SEWER:**

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

**MISCELLANEOUS:**

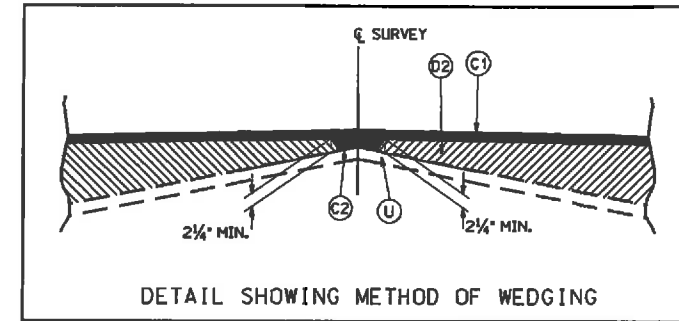
Utility Pole	⊙
Utility Pole with Base	⊠
Utility Located Object	⊙
Utility Traffic Signal Box	⊠
Utility Unknown UG Line	-----
UG Tank; Water, Gas, Oil	⊠
AG Tank; Water, Gas, Oil	⊠
UG Test Hole (S.U.E.*)	⊙
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	42213.3	2	
F.A. PROJECT NO.			

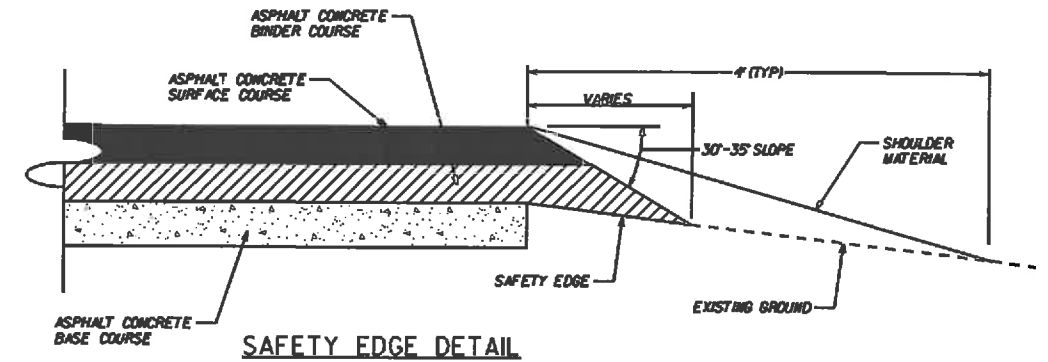


TYPICAL SECTION NO. 1

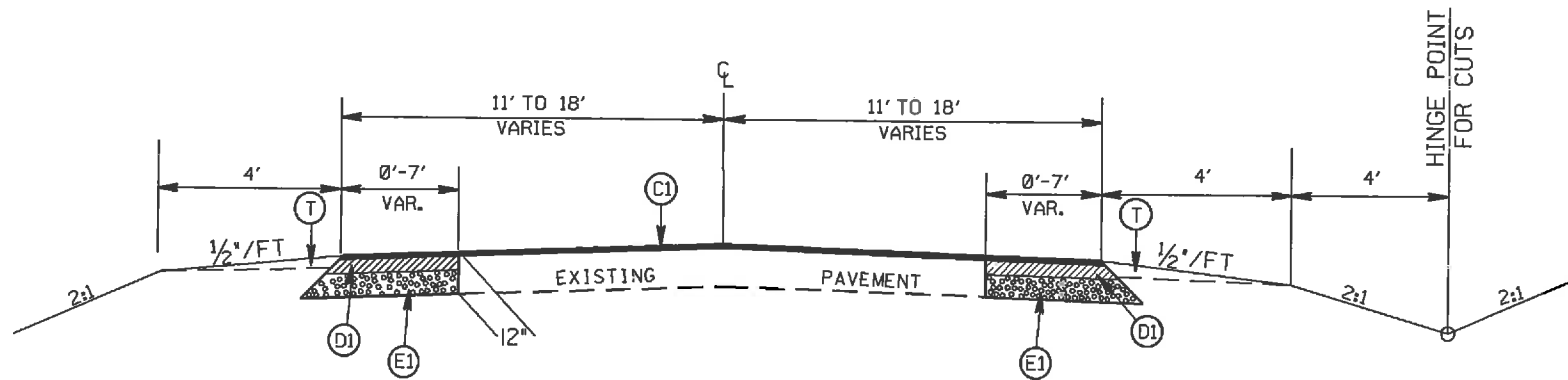
STA. 12+14 TO 12+39 -L-  
 STA. 20+70 TO 22+00 -L-  
 STA. 12+09.45 TO 12+34.45 -Y-



DETAIL SHOWING METHOD OF WEDGING

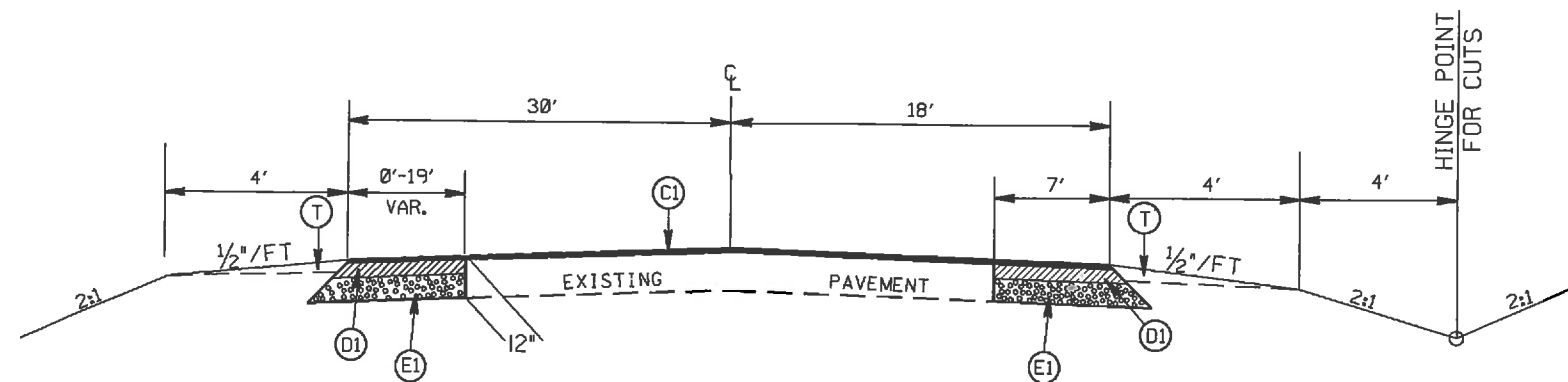


THE PAVEMENT EDGE FOR THE BASE COURSE IS 1/2\"/>



TYPICAL SECTION NO. 2

STA. 12+39 TO 17+43 -L-



TYPICAL SECTION NO. 3

STA. 17+43 TO 19+20 -L-

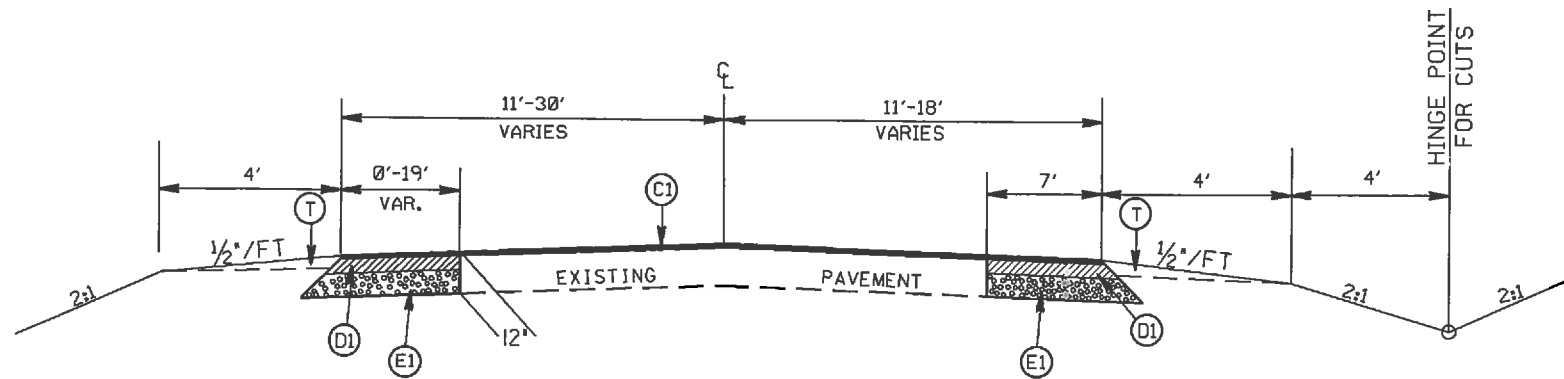
PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1 1/2" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VAR. DEPTH ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1' DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VAR. DEPTH ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1' DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2 1/4" IN DEPTH OR GREATER THAN 4" IN DEPTH.
(E1)	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT

INTERSECTION OF NC160 (STEELE CREEK RD.)  
 & SR-1119 (SLEDGE RD.)

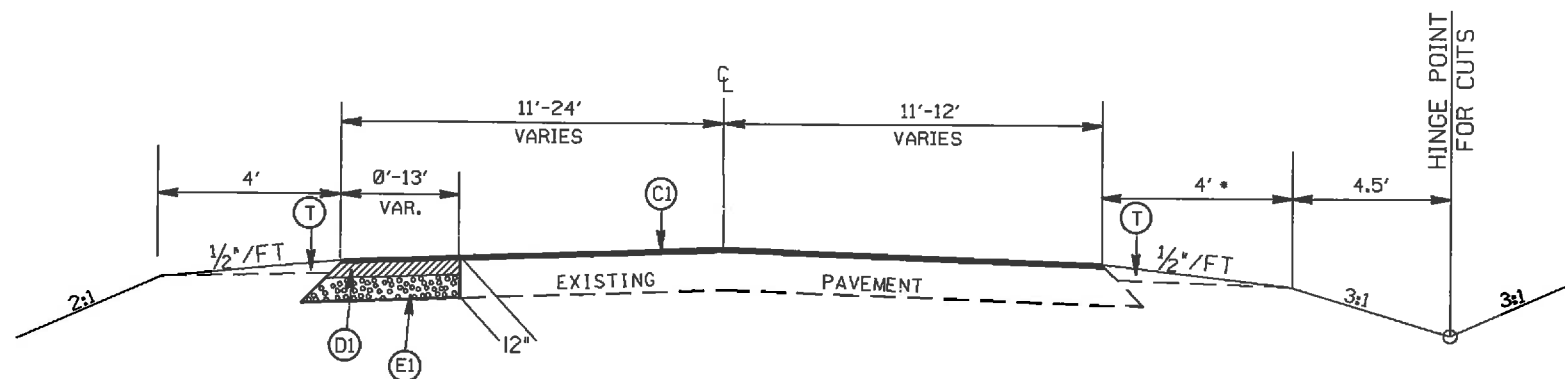
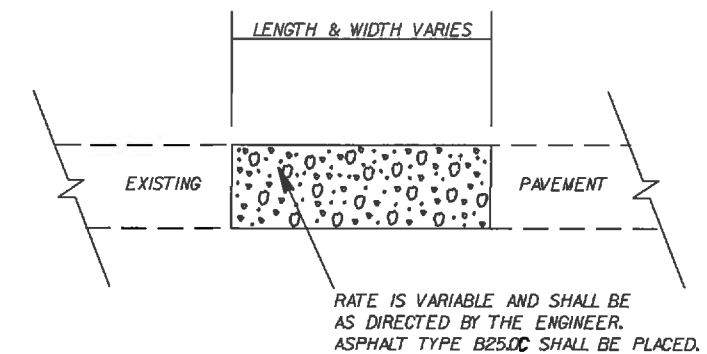
SCALE	-NA-		REVISIONS
DATE	08/10		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	42213.3	2A	
F.A. PROJECT NO.			



TYPICAL SECTION NO. 4  
STA. 19+20 TO 20+70 -L-

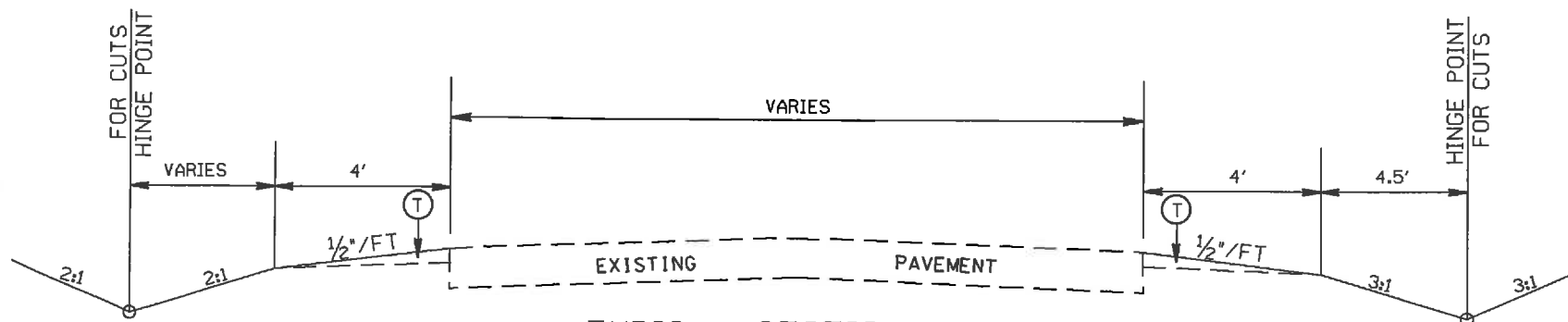
PATCHING DETAIL



TYPICAL SECTION NO. 5  
STA. 10+30 TO 12+09.45 -Y-

PAVEMENT SCHEDULE

(C1)	PROP. APPROX. 1½" ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
(C2)	PROP. VAR. DEPTH ASPHALT CONC. SURFACE COURSE, TYPE S9.5C, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1½" IN DEPTH.
(D1)	PROP. APPROX. 2.5" ASPHALT CONC. BINDER COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 285 LBS. PER SQ. YD.
(D2)	PROP. VAR. DEPTH ASPHALT CONC. INTERMEDIATE COURSE, TYPE I19.0C, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2¼" IN DEPTH OR GREATER THAN 4" IN DEPTH.
(E1)	PROP. APPROX. 8.0" ASPHALT CONC. BASE COURSE, TYPE B25.0C, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
(T)	EARTH MATERIAL
(U)	EXISTING PAVEMENT



TYPICAL SECTION NO. 6  
STA. 12+34.45 TO 13+50 -Y-

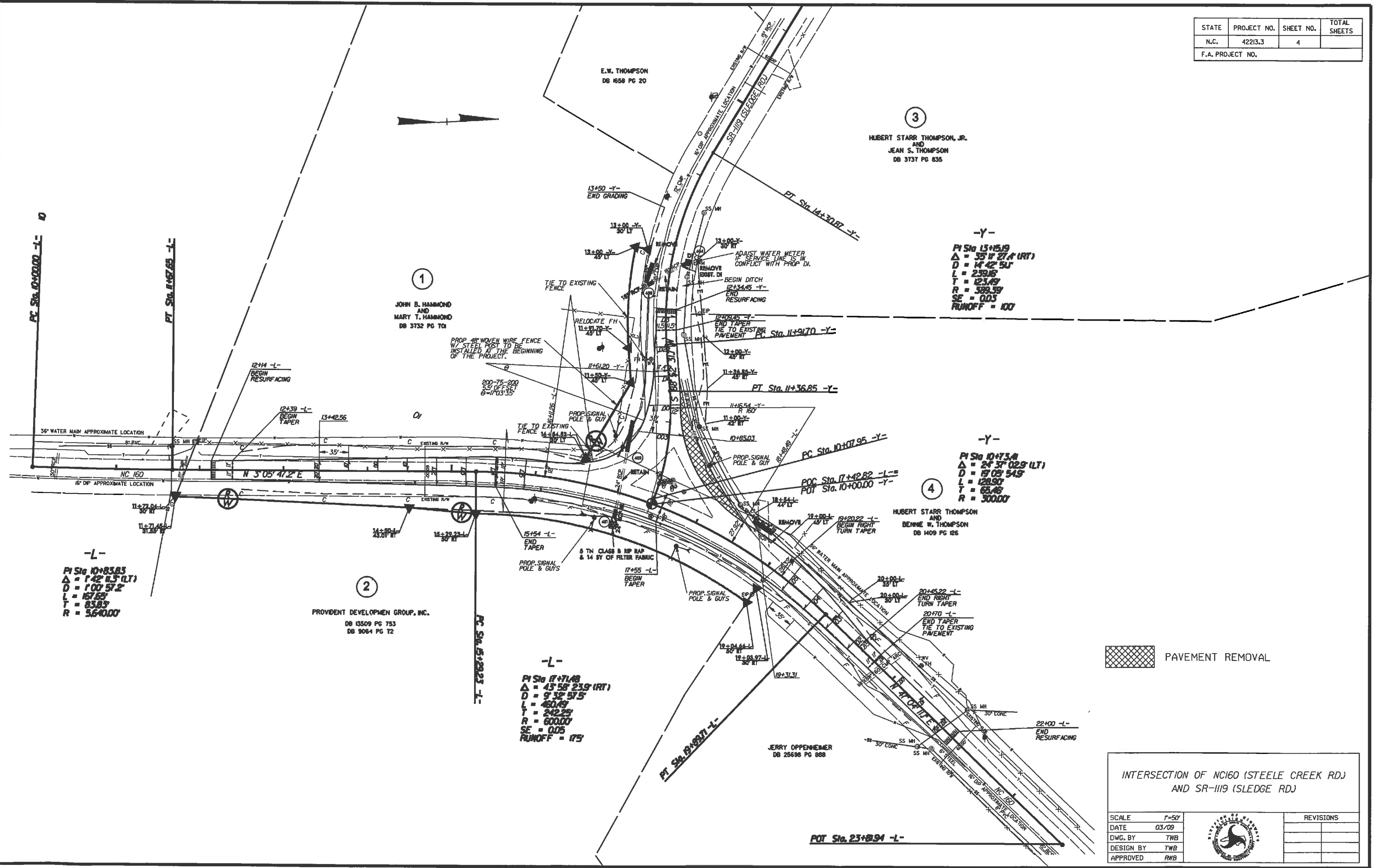
\* WIDEN SHOULDER TO 9' AT STA. 12+00 -Y-  
& GRADE DITCH BEHIND THE SEWER MANHOLE

INTERSECTION OF NC160 (STEELE CREEK RDJ)  
& SR-1119 (SLEDGE RD.)

SCALE	-NA-		REVISIONS
DATE	08/10		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		



STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	42213.3	4	
F.A. PROJECT NO.			



-Y-

PI Sta 13+15.19  
 $\Delta = 35^\circ 27' 41''$  (RT)  
 $D = 14' 42' 51''$   
 $L = 239.18'$   
 $T = 123.19'$   
 $R = 389.39'$   
 $SE = 0.03$   
 $RUNOFF = 100$

-Y-

PI Sta 10+73.4  
 $\Delta = 24^\circ 37' 02''$  (LT)  
 $D = 19' 05' 54''$   
 $L = 128.90'$   
 $T = 63.46'$   
 $R = 300.00'$

-L-

PI Sta 10+83.83  
 $\Delta = 1^\circ 42' 11.5''$  (LT)  
 $D = 1' 07' 57.2''$   
 $L = 167.65'$   
 $T = 83.83'$   
 $R = 3640.00'$

-L-

PI Sta 17+71.48  
 $\Delta = 43^\circ 58' 23.9''$  (RT)  
 $D = 9' 32' 57.5''$   
 $L = 460.49'$   
 $T = 242.25'$   
 $R = 600.00'$   
 $SE = 0.05$   
 $RUNOFF = 175$

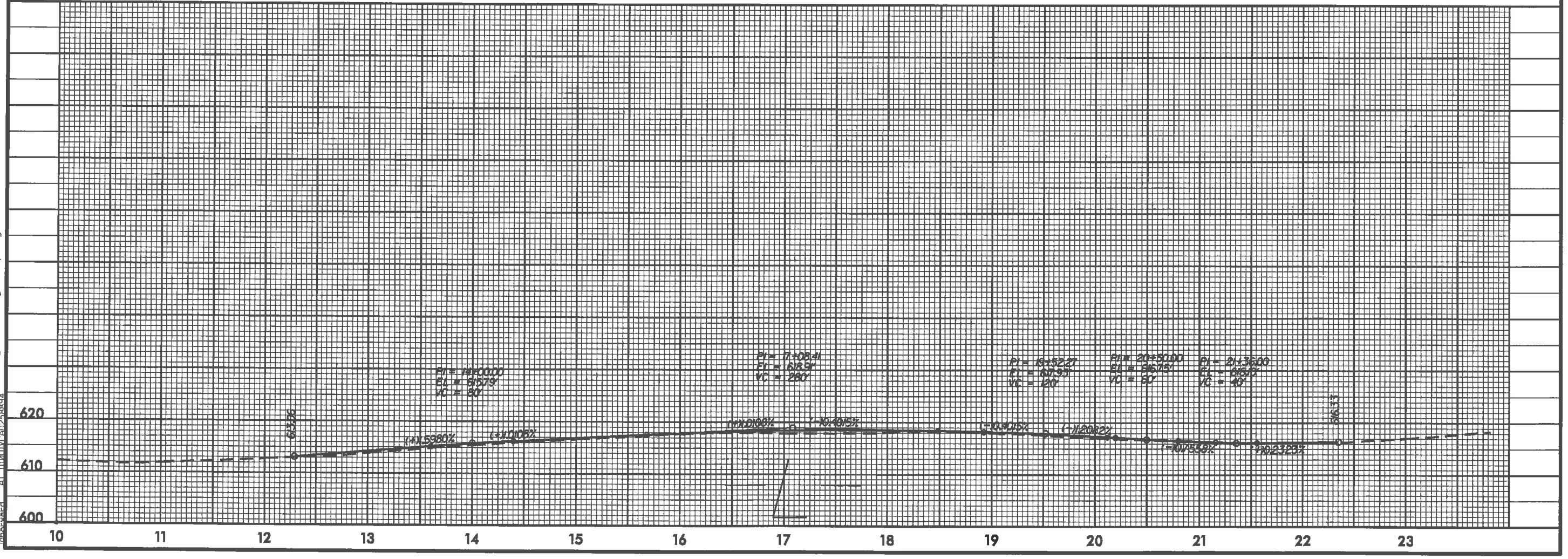
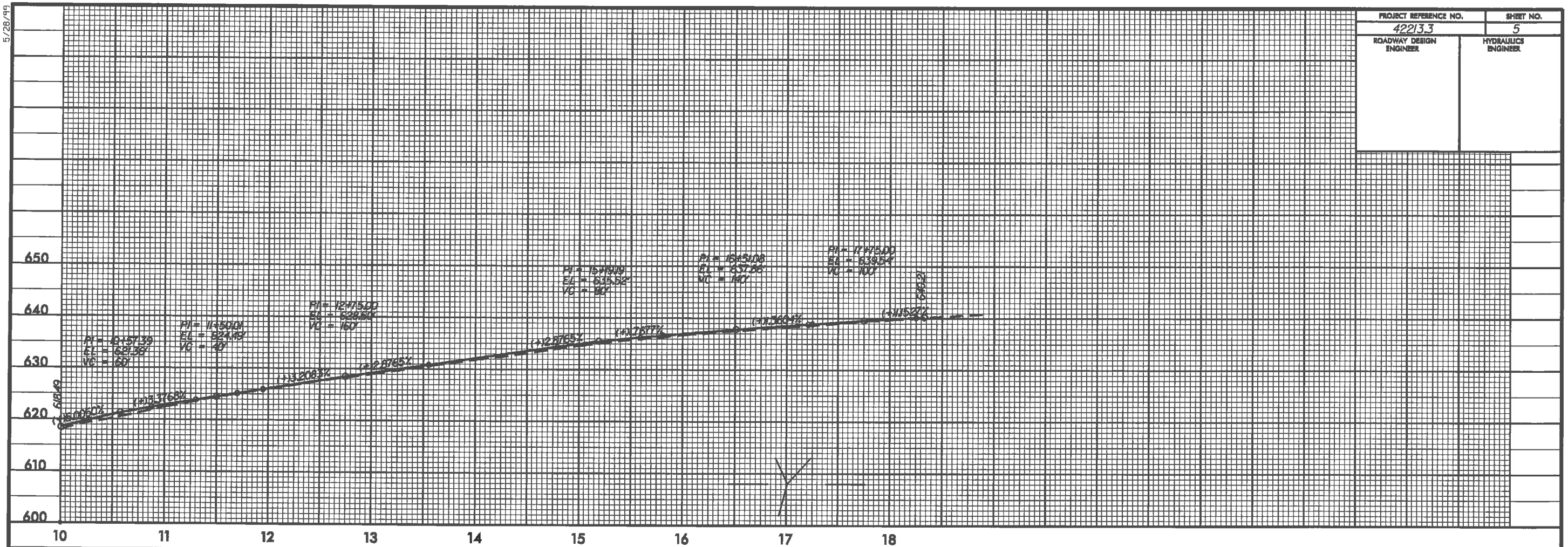
PAVEMENT REMOVAL

INTERSECTION OF NC160 (STEELE CREEK RD)  
AND SR-1119 (SLEDGE RD)

SCALE	1"=50'		REVISIONS
DATE	03/09		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		

5/28/95

PROJECT REFERENCE NO. <b>42213.3</b>	SHEET NO. <b>5</b>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



C:\DEC 2000\0058  
AP\Hatch\hatch.dwg rd (3 leg)\PRDF\sledge.ma8.pl.dgn

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	42213.3	PMF-1	
F.A. PROJECT NO.			



PAVEMENT MARKING SCHEDULE

PAY ITEM	DESCRIPTION
----------	-------------

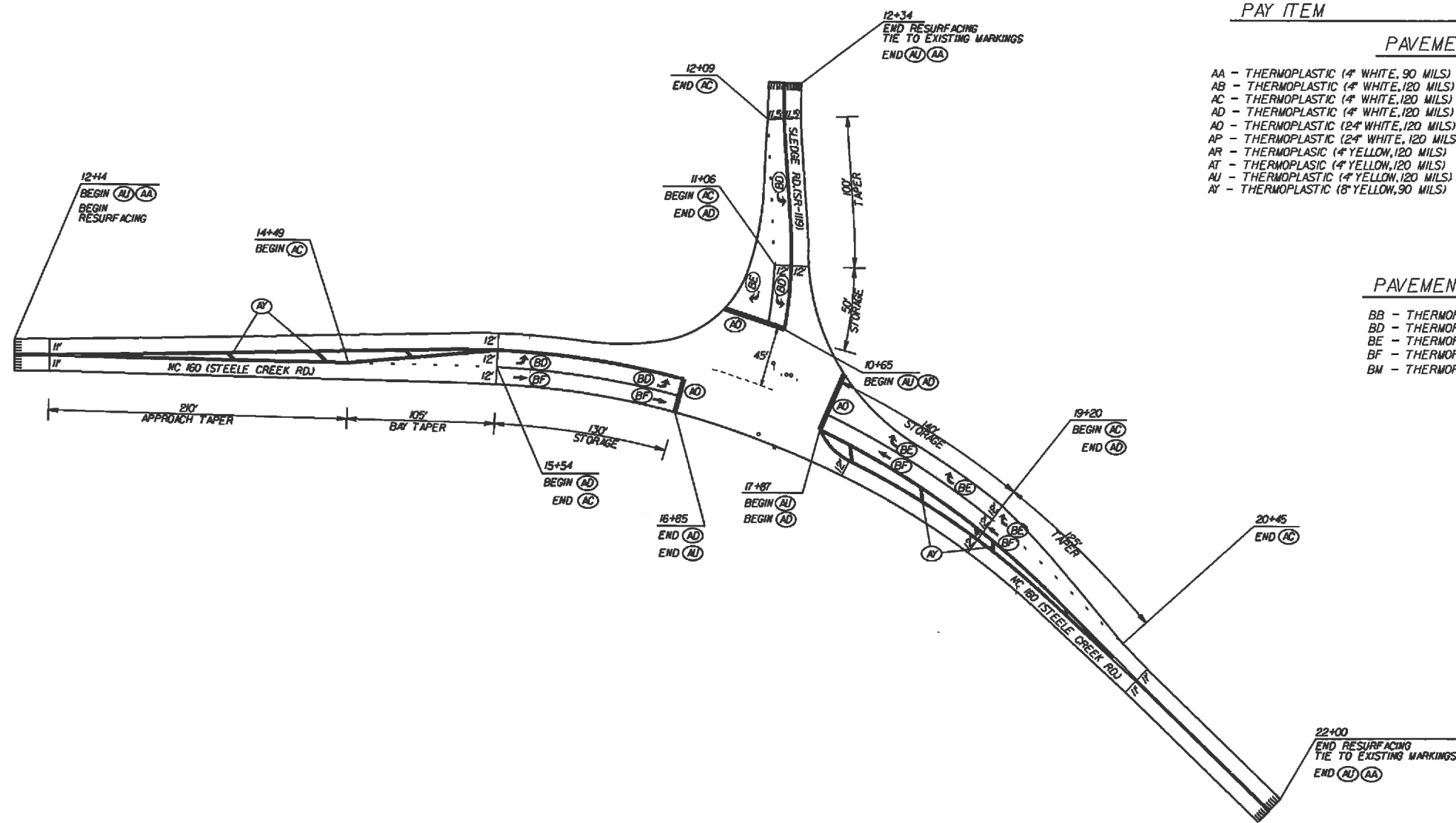
PAVEMENT MARKING LINES

- AA - THERMOPLASTIC (4" WHITE, 90 MILS)
- AB - THERMOPLASTIC (4" WHITE, 120 MILS)
- AC - THERMOPLASTIC (4" WHITE, 120 MILS)
- AD - THERMOPLASTIC (4" WHITE, 120 MILS)
- AO - THERMOPLASTIC (24" WHITE, 120 MILS)
- AP - THERMOPLASTIC (24" WHITE, 120 MILS)
- AR - THERMOPLASTIC (4" YELLOW, 120 MILS)
- AT - THERMOPLASTIC (4" YELLOW, 120 MILS)
- AU - THERMOPLASTIC (4" YELLOW, 120 MILS)
- AV - THERMOPLASTIC (8" YELLOW, 90 MILS)

- EDGELINE
- 4" X 10' SKIP
- 4" X 2' MINISKIP
- SOLID LANE LINE
- STOP BAR
- CROSSWALK LINE
- 4" X 10' SKIP
- SINGLE CENTER LINE
- DOUBLE CENTER LINE
- DIAGONALS

PAVEMENT MARKING SYMBOLS

- BB - THERMOPLASTIC ('SCHOOL', 120 MILS)
- BD - THERMOPLASTIC (LEFT TURN ARROW, 90 MILS)
- BE - THERMOPLASTIC (RIGHT TURN ARROW, 90 MILS)
- BF - THERMOPLASTIC (STRAIGHT ARROW, 90 MILS)
- BM - THERMOPLASTIC ('STOP', 120 MILS)



INTERSECTION OF NC160 (STEELE CREEK RD)  
AND SR-1119 (SLEDGE RD)

SCALE 1"=50'  
DATE 03/09  
DWG. BY JDH  
DESIGN BY JDH  
APPROVED RWB



REVISIONS



**PROJECT: 42213.3 TIP: SS-4910Q**

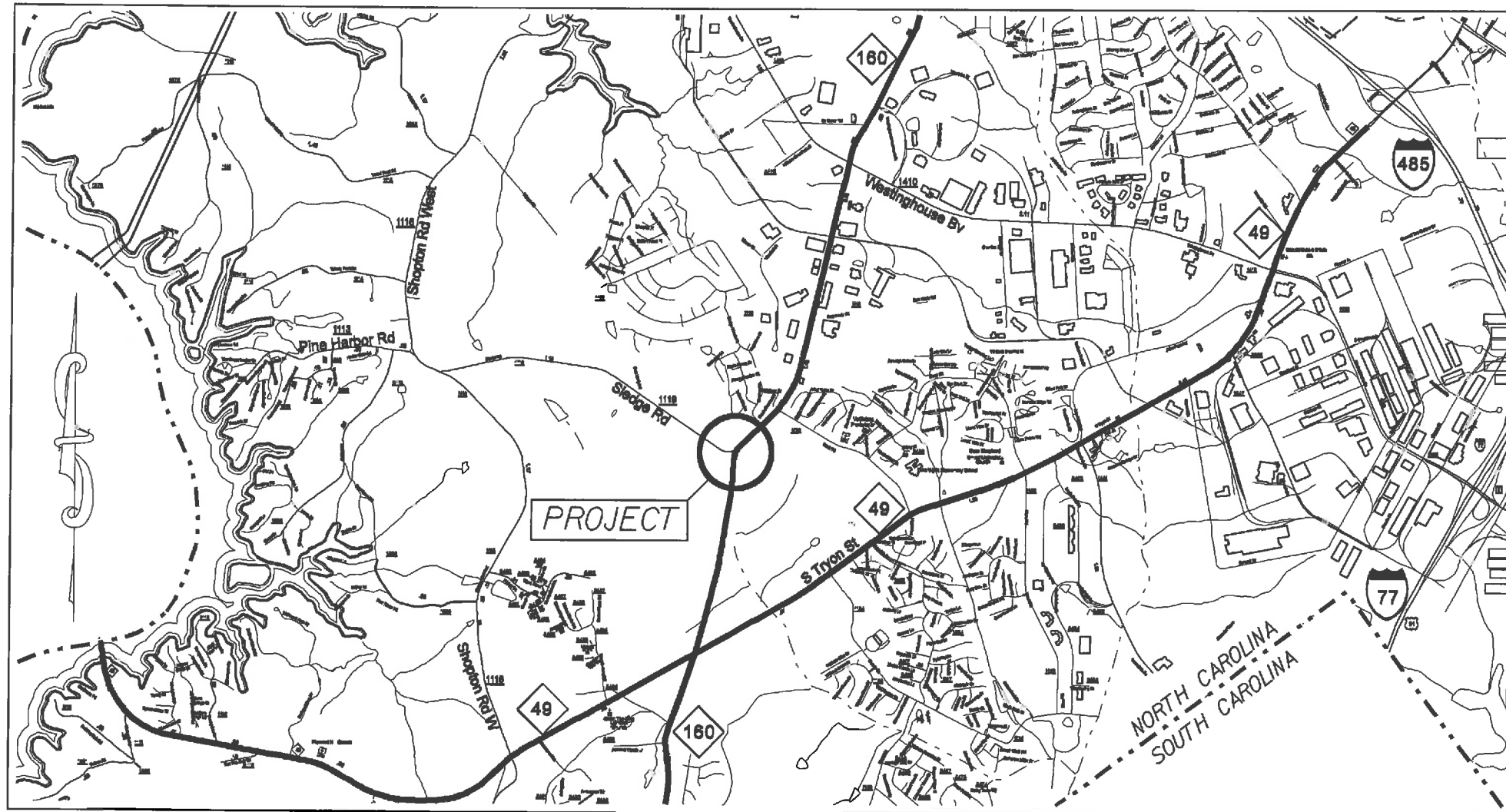
STATE OF NORTH CAROLINA  
 DIVISION OF HIGHWAYS  
 PLAN FOR PROPOSED  
 HIGHWAY EROSION CONTROL

STATE	STATE PROJECT REFERENCE NO.	HEET NO.	TOTAL SHEETS
N.C.	42213.3	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

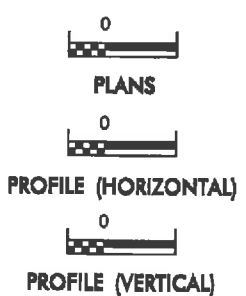
**EROSION AND SEDIMENT CONTROL MEASURES**

Std. #	Description	Symbol
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1633.01	Temporary Rock Silt Check Type-A	
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	
1633.02	Temporary Rock Silt Check Type-B	
	Wattle / Coir Fiber Wattle	
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	
1634.01	Temporary Rock Sediment Dam Type-A	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	
1635.02	Rock Pipe Inlet Sediment Trap Type-B	
1630.04	Stilling Basin	
1630.06	Special Stilling Basin	
	Rock Inlet Sediment Trap:	
1632.01	Type A	
1632.02	Type B	
1632.03	Type C	
	Skimmer Basin	
	Tiered Skimmer Basin	
	Infiltration Basin	

**THIS PROJECT CONTAINS  
 EROSION CONTROL PLANS  
 FOR CLEARING AND  
 GRUBBING PHASE OF  
 CONSTRUCTION.**



**GRAPHIC SCALE**



ROADSIDE ENVIRONMENTAL UNIT  
 DIVISION OF HIGHWAYS  
 STATE OF NORTH CAROLINA

THESE EROSION AND SEDIMENT CONTROL PLANS COMPLY  
 WITH THE REGULATIONS SET FORTH BY THE  
 NCG-010600 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011  
 ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND  
 NATURAL RESOURCES DIVISION OF WATER QUALITY.

Prepared in the Office of:  
**DDC UNIT DIVISION 10**  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**2012 STANDARD SPECIFICATIONS**

**TERRY W. BURLESON** 141  
 EROSION CONTROL DESIGNER LEVEL III-A CERTIFICATION #

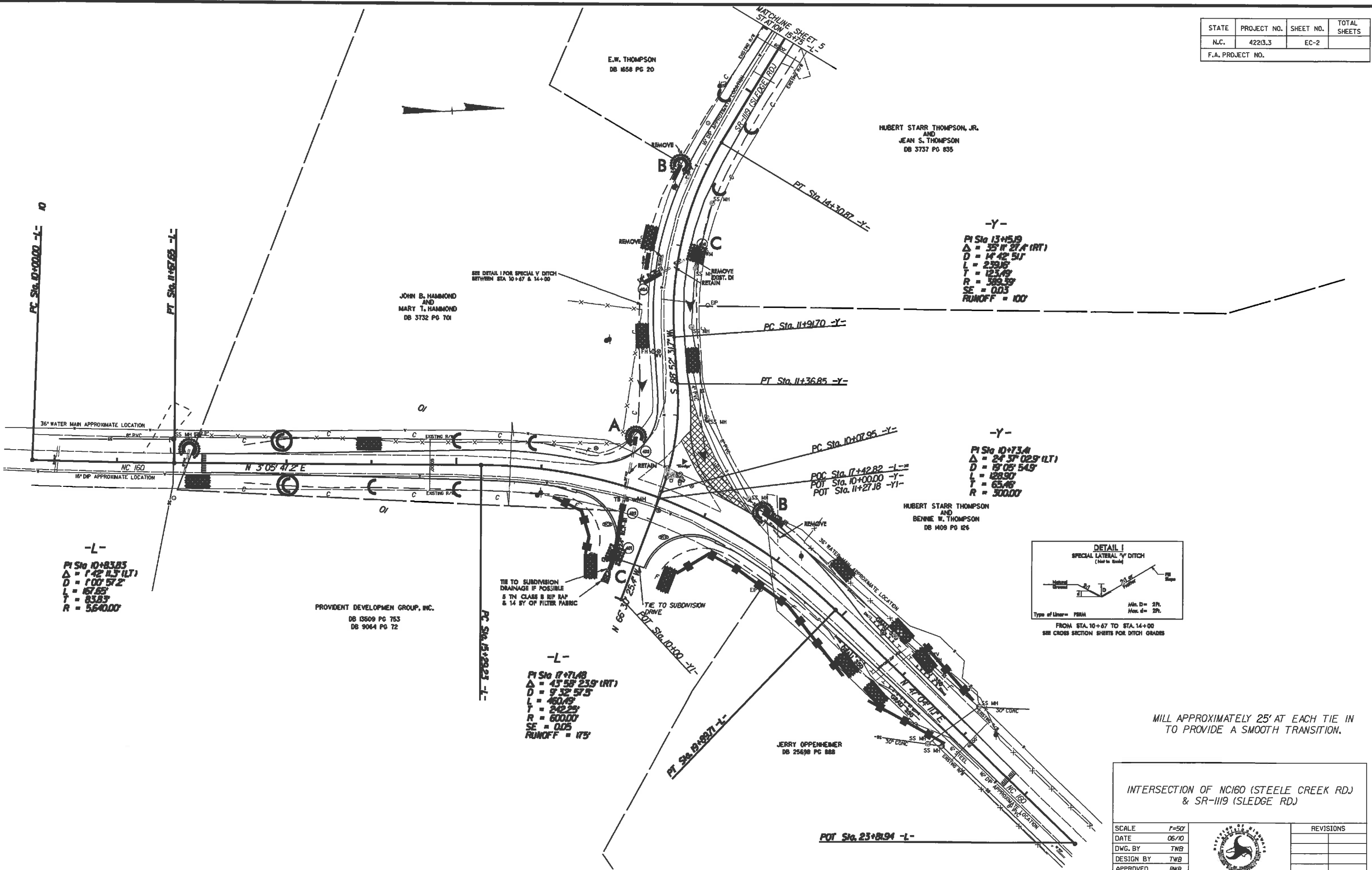
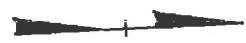
**Roadway Standard Drawings**

The following roadway ~~and~~ standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated January 2012 and the latest revisions thereto are applicable to this project and by reference hereby are considered a part of these plans.

1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type A
1622.01 Temporary Berms and Slope Drains	1633.02 Temporary Rock Silt Check Type B
1630.01 Silt Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.02 Silt Basin Type B	1634.02 Temporary Rock Sediment Dam Type B
1630.03 Temporary Silt Ditch	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.04 Stilling Basin	1635.02 Rock Pipe Inlet Sediment Trap Type B
1630.05 Temporary Diversion	1640.01 Coir Fiber Wattle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

05-DEC-2011 141  
 141.dwg  
 T:\05\141\141.dwg  
 141.dwg

STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
N.C.	42213.3	EC-2	
F.A. PROJECT NO.			

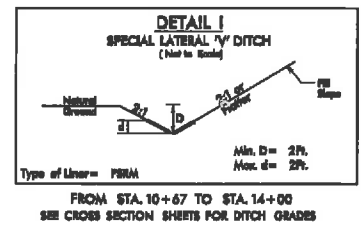


-Y-  
 PI Sta 13+51.9  
 $\Delta = 35^{\circ} 27' 17''$  (RT)  
 D = 14' 42' 51"  
 L = 239.16'  
 T = 123.49'  
 R = 389.39'  
 SE = 0.03  
 RUNOFF = 100'

-Y-  
 PI Sta 10+73.4  
 $\Delta = 24^{\circ} 37' 02''$  (LT)  
 D = 15' 05' 54"  
 L = 188.90'  
 T = 65.46'  
 R = 300.00'

-L-  
 PI Sta 10+83.85  
 $\Delta = 1^{\circ} 42' 15''$  (LT)  
 D = 100' 57.2"  
 L = 167.65'  
 T = 83.83'  
 R = 5640.00'

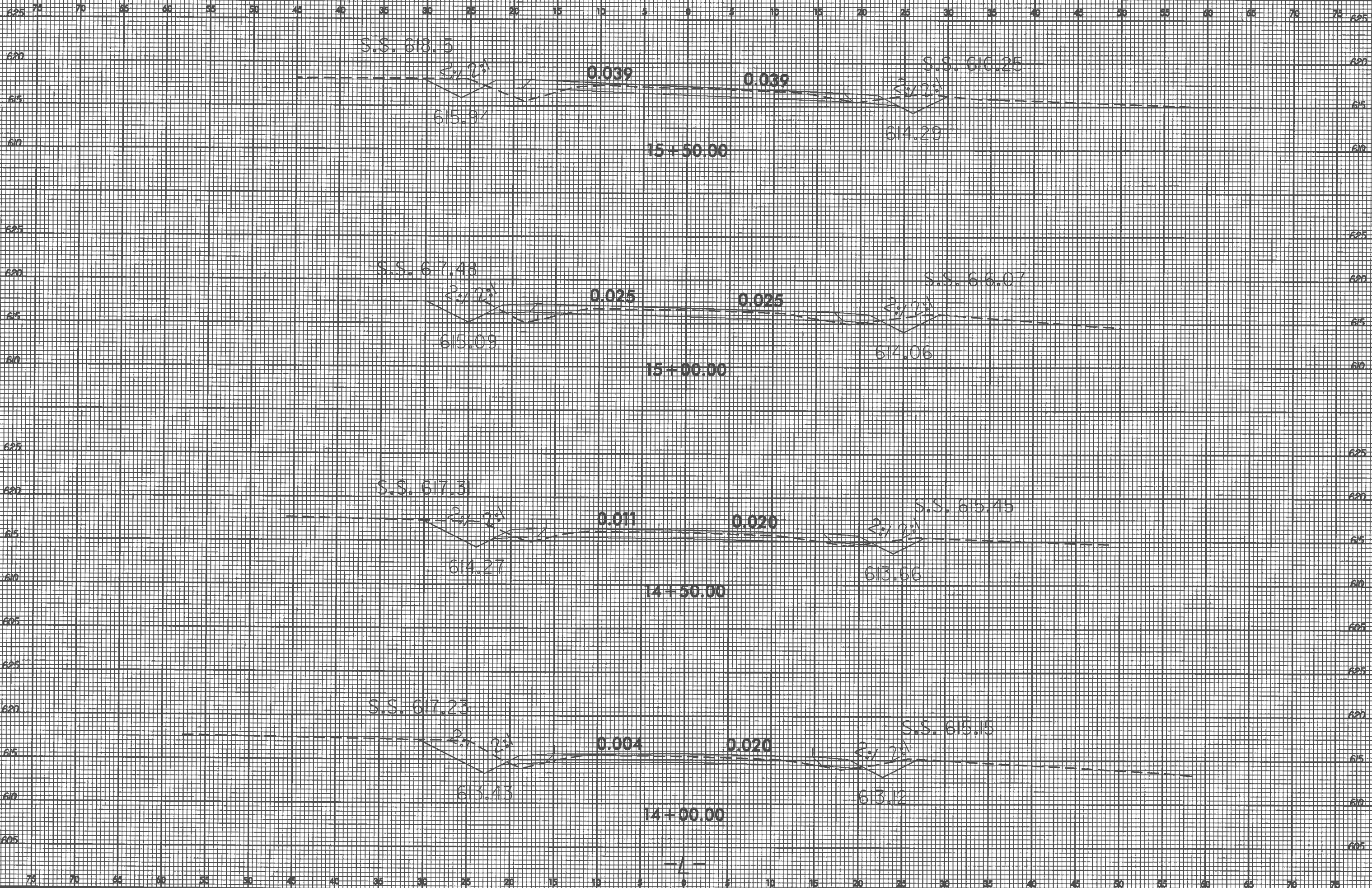
-L-  
 PI Sta 17+71.48  
 $\Delta = 45^{\circ} 58' 23''$  (RT)  
 D = 9' 32' 57.5"  
 L = 460.49'  
 T = 242.25'  
 R = 60000'  
 SE = 0.05  
 RUNOFF = 175'



MILL APPROXIMATELY 25' AT EACH TIE IN TO PROVIDE A SMOOTH TRANSITION.

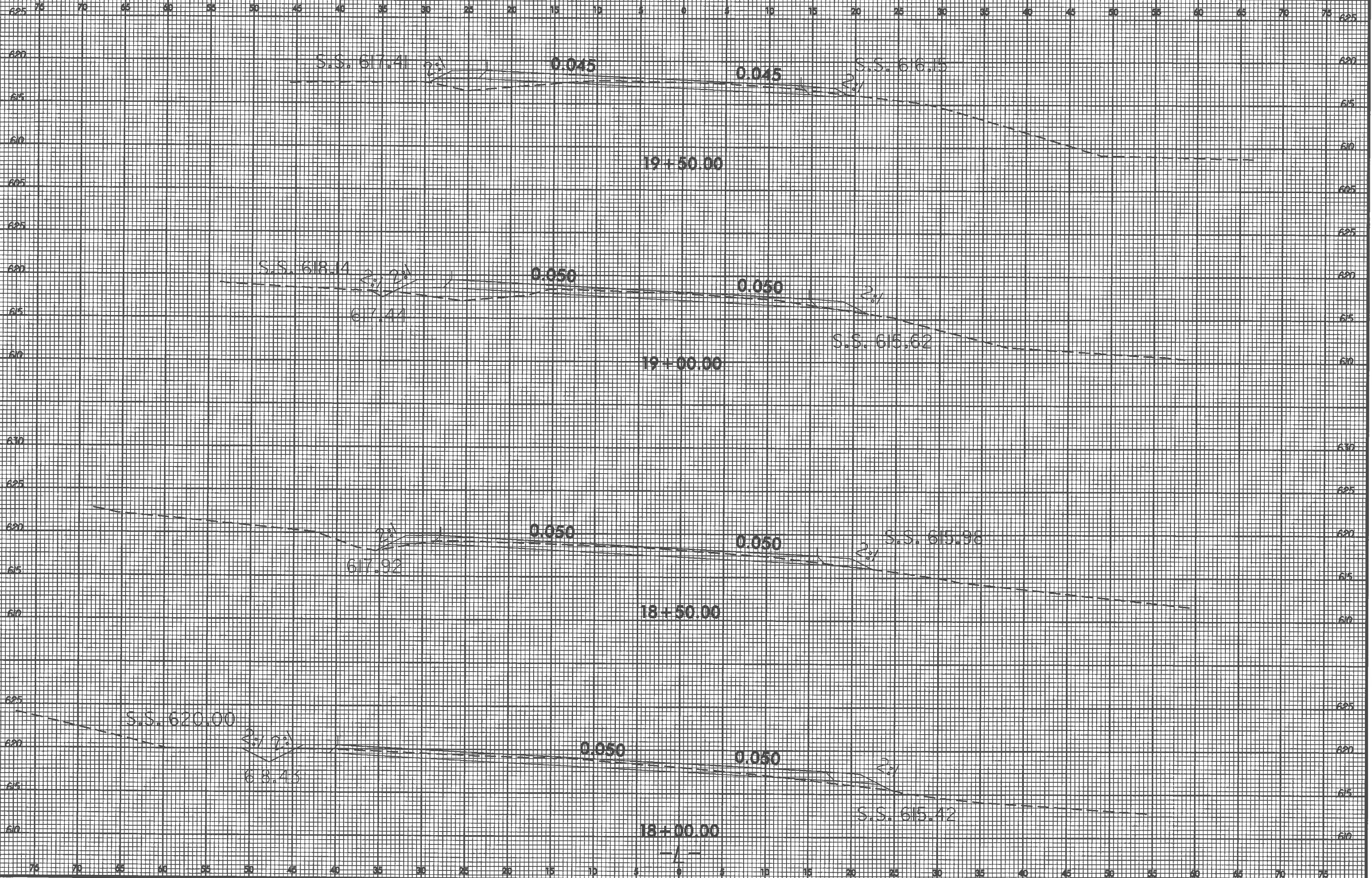
INTERSECTION OF NC160 (STEELE CREEK RD) & SR-1119 (SLEDGE RD)		REVISIONS	
SCALE	1"=50'		
DATE	06/10		
DWG. BY	TWB		
DESIGN BY	TWB		
APPROVED	RWB		



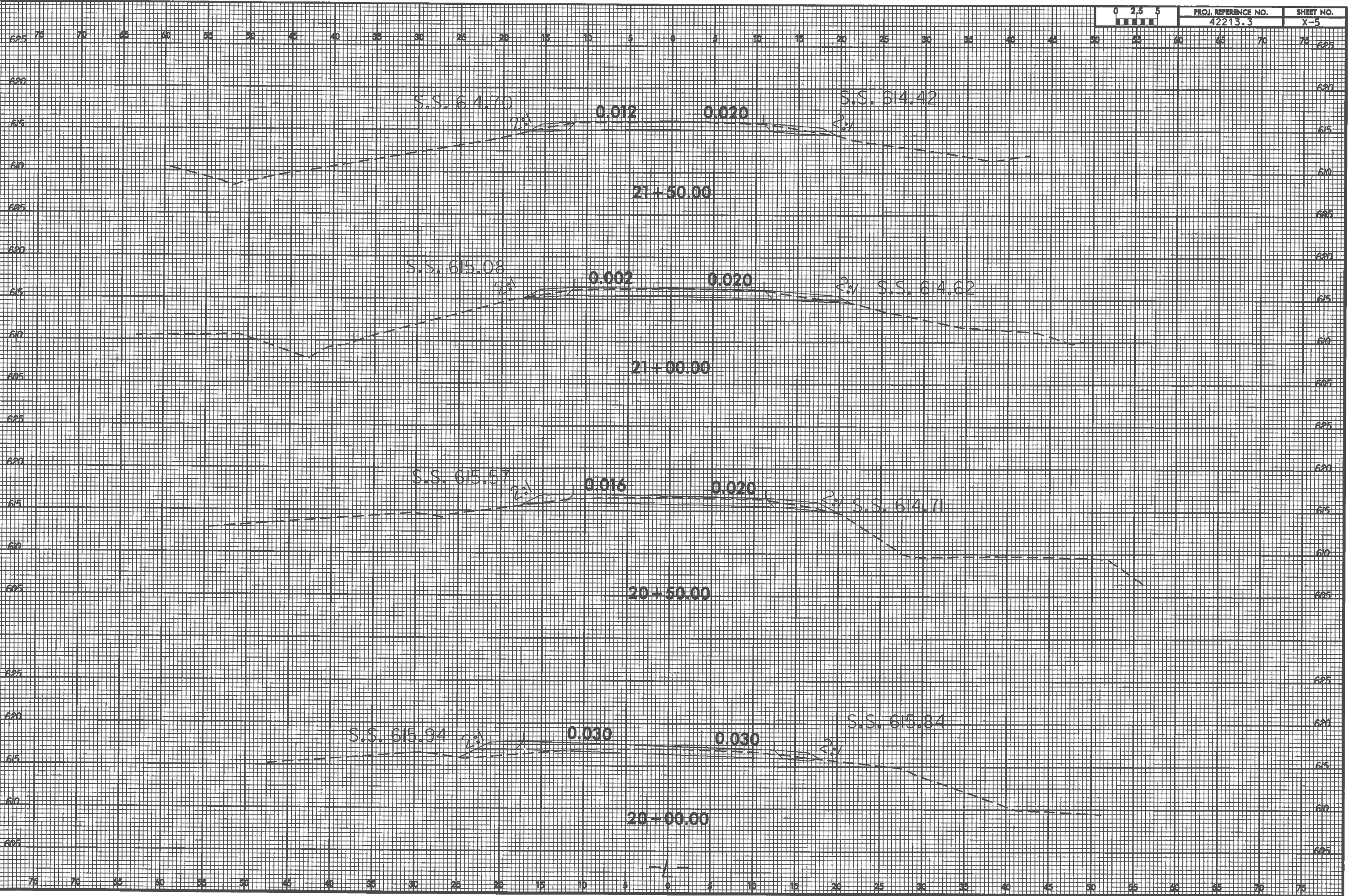




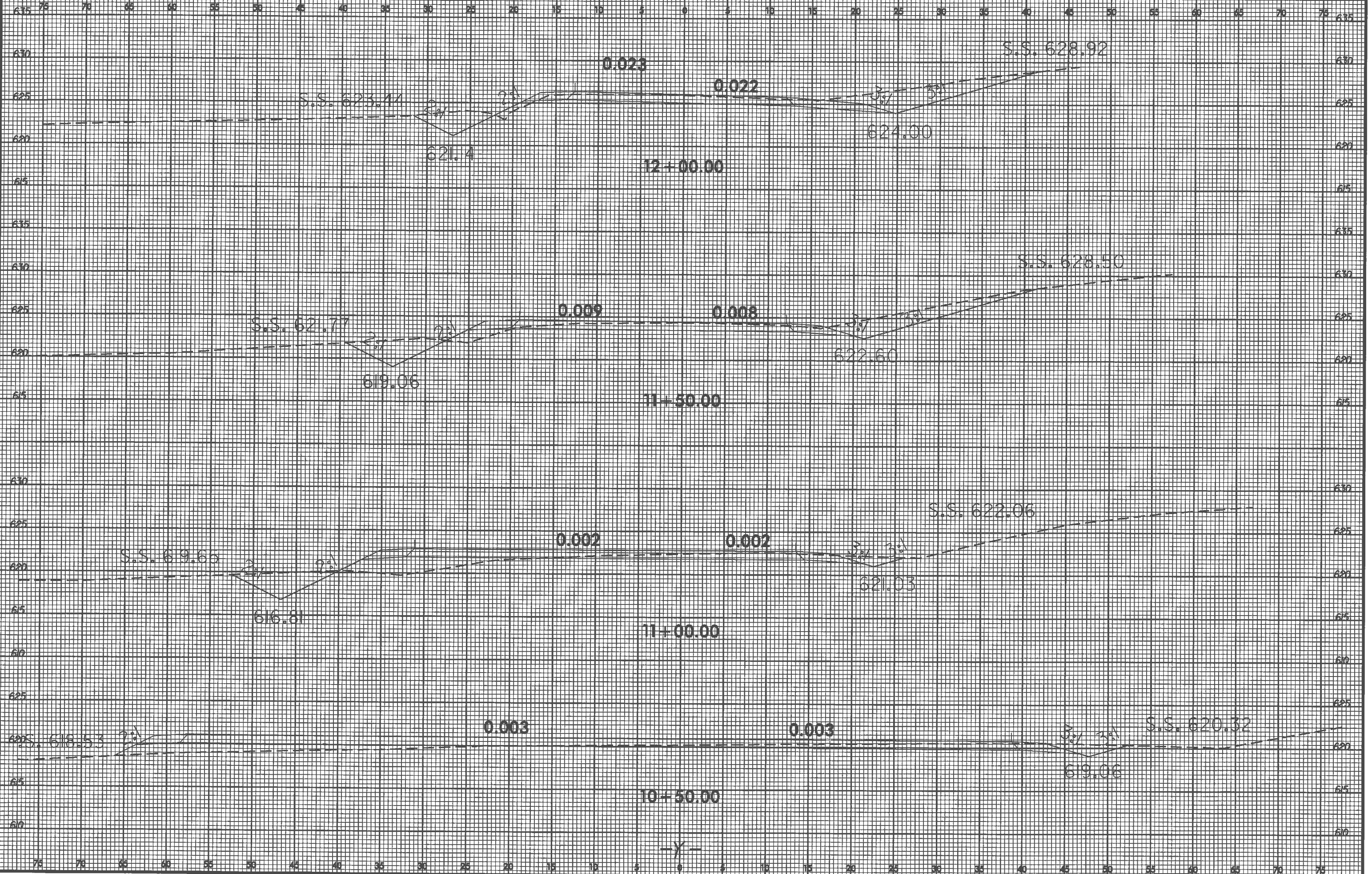
8/23/99



05-DEC-2011 13:04  
S:\DDC\RD\Weg-1\eg\Y\2011\20110823\1800.dwg (3 leg)\XSC\alodge.mae\_xpl\_L.dgn  
User:wd



8/23/99



S:\DEC-2001\340 S:\UNC\RDY\WEEK\leg\legburqa\legdgs\_rd (3 leg)\XSC\stedgs\_ma8.xpl v.dgn



