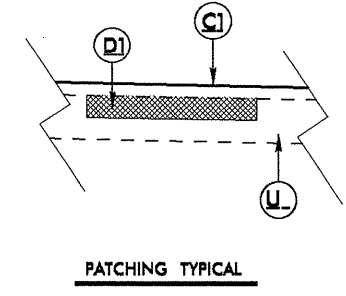
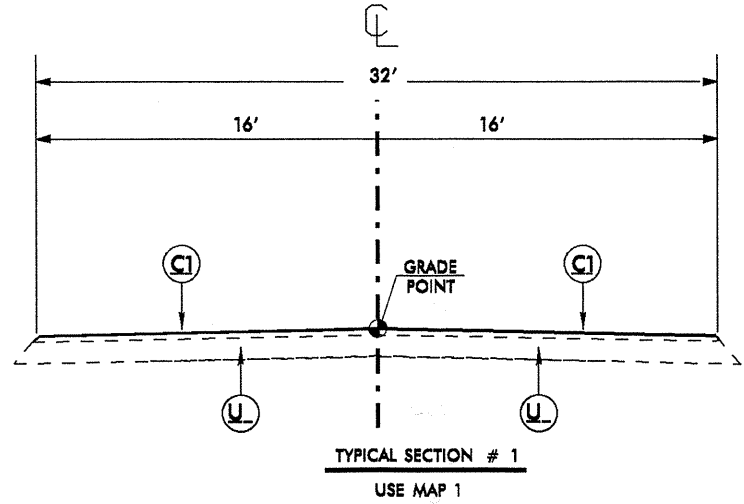


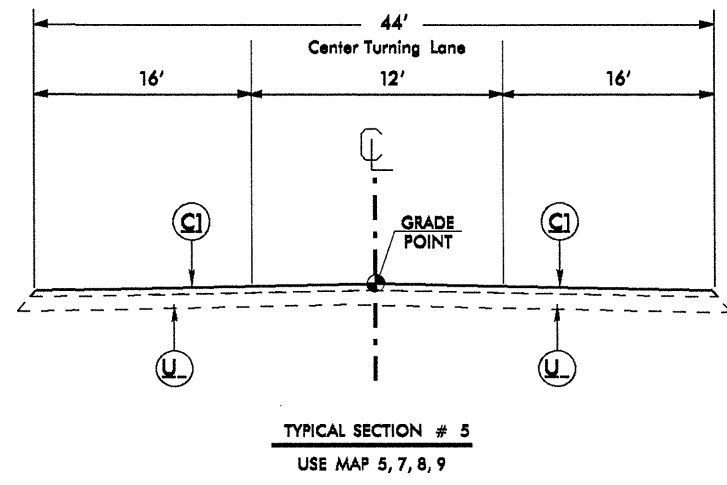
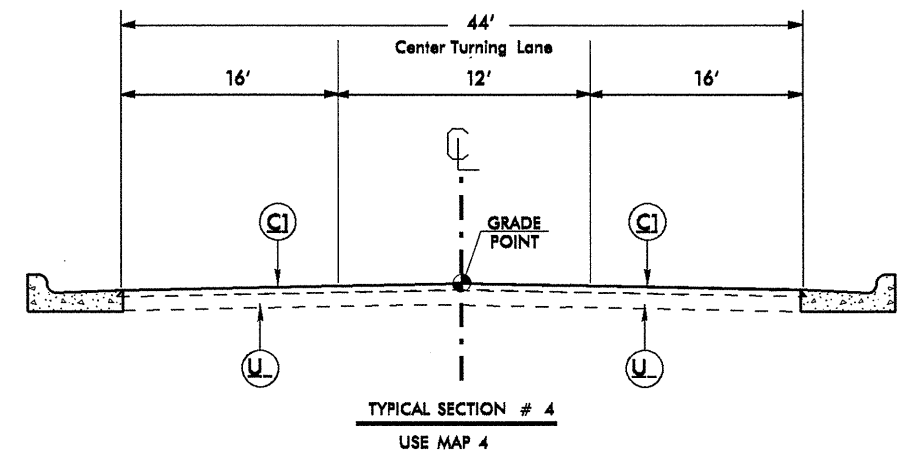
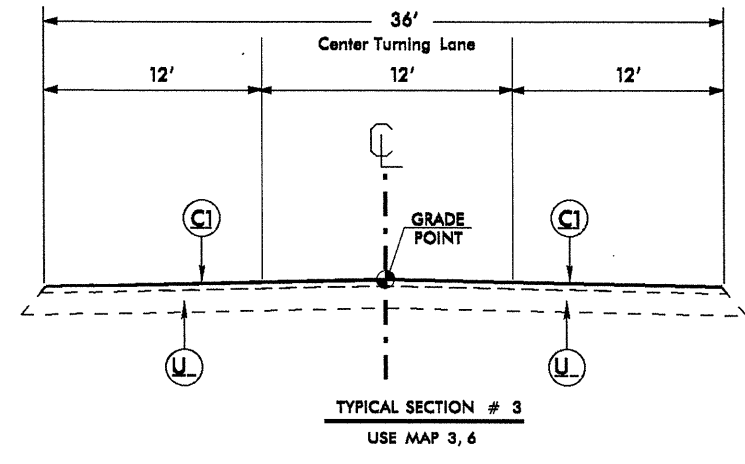
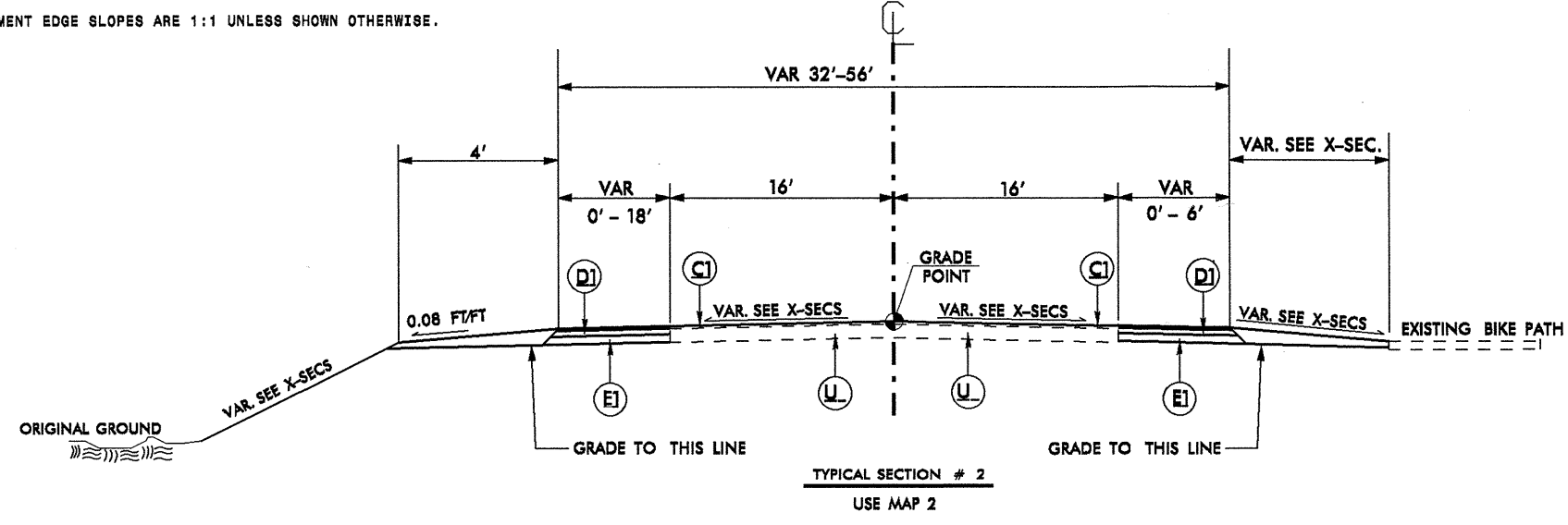
10/26/98

PROJECT REFERENCE NO. 42901	SHEET NO. 2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

PAVEMENT SCHEDULE	
C1	PROP APPROX, 1 1/2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS PER SQ YD
D1	PROP APPROX, 3 1/2" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B AT AN AVERAGE RATE OF 342 LBS PER SQ YD
E1	PROP APPROX, 5 1/2" ASPHALT CONCRETE BASE COURSE TYPE B25.0B AT AN AVERAGE RATE OF 570 LBS PER SQ YD
U	EXISTING PAVEMENT
J	PROP. 8" AGGREGATE BASE COURSE
T	EARTH MATERIAL



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



SYSTEMS DESIGN

PROJECT NO.	SHEET NO.	TOTAL NO.
42901	3	

### SUMMARY OF QUANTITIES

PROJECT NO.	COUNTY	MAP NO.	ROUTE	DESCRIPTION	TYP	FINAL SURFACE TESTING REQUIRED	LENGTH MI	WIDTH FT	GRADING LS	AGGREGATE BASE COURSE TON	INCIDENTAL STONE BASE TON	BASE COURSE, B25.0B TONS	INTER-MEDIATE COURSE, I19.0B TONS	SURFACE COURSE, S9.5B TONS	PG 64-22 PLANT MIX TONS	PATCHING EXISTING PAVEMENT TONS	6" DRIVEWAYS SY	TEMP. SILT FENCE LF	SEDIMENT CONTROL STONE TON	MATTING FOR EROSION CONTROL SY	1/4" HARDWARE CLOTH LF	WATTLE LF	POLY-ACRYLAMIDE (PAM) LB	SEEDING & MULCHING ACR	SEED FOR REPAIR SEEDING LB	FERTILIZER FOR REPAIR SEEDING TON		
42901	Carteret	1	NC 58	START @ END OF CURB & GUTTER @ INDIAN BEACH, NORTH 5.59 MILES	1	NO	5.39	32						9,386	563	200												
<b>TOTAL FOR MAP NO. 1</b>							<b>5.39</b>							<b>9,386</b>	<b>563</b>	<b>200</b>												
		2	NC 58	FROM END OF MAP 1 GO .21 MILES NORTH ON NC 58 (BOAT RAMP)	2	NO	0.21	32	1	109	100	300	230	490	53		250	1,718	4	100	75	20	5.0	1	50	0.20		
<b>TOTAL FOR MAP NO. 2</b>							<b>0.21</b>		<b>1</b>	<b>109</b>	<b>100</b>	<b>300</b>	<b>230</b>	<b>490</b>	<b>53</b>		<b>250</b>	<b>1,718</b>	<b>4</b>	<b>100</b>	<b>75</b>	<b>20</b>	<b>5.0</b>	<b>1</b>	<b>50</b>	<b>0.20</b>		
		3	NC 58	FROM END OF MAP 2 NORTH 2.2 MILES	3	NO	2.2	36						4,308	258	250												
<b>TOTAL FOR MAP NO. 3</b>							<b>2.2</b>							<b>4,308</b>	<b>258</b>	<b>250</b>												
		4	NC 58	FROM END OF MAP 3 GO .02 MILES NORTH	4	NO	0.2	44						478	29	50												
<b>TOTAL FOR MAP NO. 4</b>							<b>0.2</b>							<b>478</b>	<b>29</b>	<b>50</b>												
		5	NC 58	FROM END OF MAP 5 GO .1 MILE NORTH	4	NO	0.1	44						239	14	50												
<b>TOTAL FOR MAP NO. 5</b>							<b>0.1</b>							<b>239</b>	<b>14</b>	<b>50</b>												
		6	NC 58	FROM END OF MAP 5 GO .8 MILES NORTH	3	NO	0.8	36						1,567	94	100												
<b>TOTAL FOR MAP NO. 6</b>							<b>0.8</b>							<b>1,567</b>	<b>94</b>	<b>100</b>												
		7	NC 58	FROM END OF MAP 6 GO .4 MILES NORTH	5	NO	0.4	44						957	57	50												
<b>TOTAL FOR MAP NO. 7</b>							<b>0.4</b>							<b>957</b>	<b>57</b>	<b>50</b>												
		8	NC 58	BEGIN @ NORTH END OF BRIDGE GO TO PAVEMENT CHANGE .3 MILES	5	NO	0.3	44						718	43	50												
<b>TOTAL FOR MAP NO. 8</b>							<b>0.3</b>							<b>718</b>	<b>43</b>	<b>50</b>												
		9	NC 58	START @ PAVEMENT CHANGE NORTH OF NC 24 GO TO 600' SOUTH OF NC 58 & TAYLOR NOTION	5	NO	0.8	44						1,914	115	50												
<b>TOTAL FOR MAP NO. 9</b>							<b>0.8</b>							<b>1,914</b>	<b>115</b>	<b>50</b>												
<b>TOTAL FOR PROJ NO. 42901</b>							<b>10.4</b>		<b>1</b>	<b>109</b>	<b>100</b>	<b>300</b>	<b>230</b>	<b>20,057</b>	<b>1,226</b>	<b>800</b>	<b>250</b>	<b>1,718</b>	<b>4</b>	<b>100</b>	<b>75</b>	<b>20</b>	<b>5.0</b>	<b>1</b>	<b>50</b>	<b>0.20</b>		
<b>GRAND TOTAL</b>							<b>10.4</b>		<b>1</b>	<b>109</b>	<b>100</b>	<b>300</b>	<b>230</b>	<b>20,057</b>	<b>1,226</b>	<b>800</b>	<b>250</b>	<b>1,718</b>	<b>4</b>	<b>100</b>	<b>75</b>	<b>20</b>	<b>5.0</b>	<b>1</b>	<b>50</b>	<b>0.20</b>		

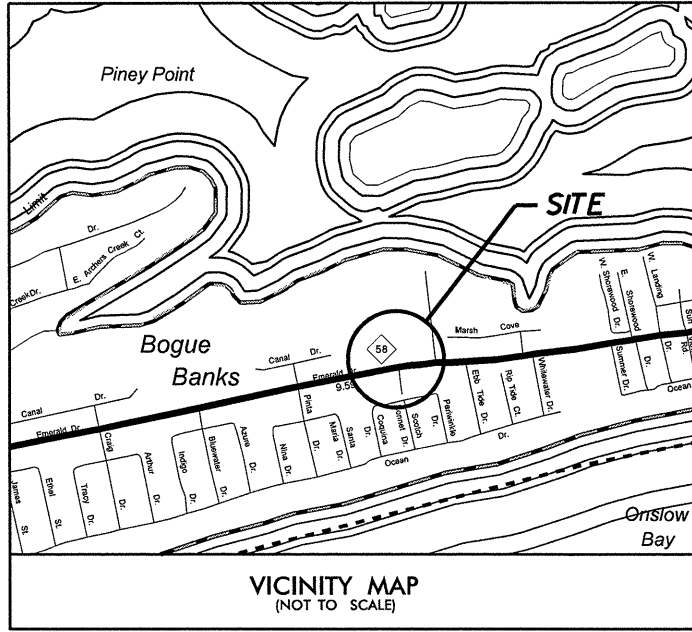
PROJECT NO.	SHEET NO.	TOTAL NO.
42901	4	

## THERMOPLASTIC AND PAINT QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	4685000000-E	4686000000-E	4697000000-E	4702000000-E	4710000000-E	4725000000-E		
					4" X 90 M WHITE THERMO  LF	4" X 120 M YELLOW THERMO  LF	8" X 120 M WHITE THERMO  LF	12" X 120 M WHITE THERMO  LF	24" X 120 M WHITE THERMO  LF	THERMO LT ARROW 90 M EA	THERMO RT ARROW 90 M EA	THERMO STR ARROW 90 M EA
42901	Carteret	1	NC 58	START @ END OF CURB & GUTTER @ INDIAN BEACH, NORTH 5.59 MILES	57,996	42,689						
<b>TOTAL FOR MAP NO. 1</b>					<b>57,996</b>	<b>42,689</b>						
		2	NC 58	FROM END OF MAP 1 GO .21 MILES NORTH ON NC 58 (BOAT RAMP)	2,140	3,790	92		24	7		
<b>TOTAL FOR MAP NO. 2</b>					<b>2,140</b>	<b>3,790</b>	<b>92</b>		<b>24</b>	<b>7</b>		
		3	NC 58	FROM END OF MAP 2 NORTH 2.2 MILES	23,672	17,424						
<b>TOTAL FOR MAP NO. 3</b>					<b>23,672</b>	<b>17,424</b>						
		4	NC 58	FROM END OF MAP 3 GO .02 MILES NORTH	2,152	1,584				3	3	
<b>TOTAL FOR MAP NO. 4</b>					<b>2,152</b>	<b>1,584</b>				<b>3</b>	<b>3</b>	
		5	NC 58	FROM END OF MAP 5 GO .1 MILE NORTH	1,076	792		50				
<b>TOTAL FOR MAP NO. 5</b>					<b>1,076</b>	<b>792</b>		<b>50</b>				
		6	NC 58	FROM END OF MAP 5 GO .8 MILES NORTH	8,608	6,336				8	8	
<b>TOTAL FOR MAP NO. 6</b>					<b>8,608</b>	<b>6,336</b>				<b>8</b>	<b>8</b>	
		7	NC 58	FROM END OF MAP 6 GO .4 MILES NORTH	4,304	3,168				2	2	2
<b>TOTAL FOR MAP NO. 7</b>					<b>4,304</b>	<b>3,168</b>				<b>2</b>	<b>2</b>	<b>2</b>
		8	NC 58	BEGIN @ NORTH END OF BRIDGE GO TO PAVEMENT CHANGE .3 MILES	3,228	2,376						
<b>TOTAL FOR MAP NO. 8</b>					<b>3,228</b>	<b>2,376</b>						
		9	NC 58	START @ PAVEMENT CHANGE NORTH OF NC 24 GO TO 600' SOUTH OF NC 58 & TAYLOR NOTION	8,608	6,336						
<b>TOTAL FOR MAP NO. 9</b>					<b>8,608</b>	<b>6,336</b>						
<b>TOTAL FOR PROJ NO. 42901</b>					<b>111,784</b>	<b>84,495</b>	<b>92</b>	<b>50</b>	<b>24</b>	<b>20</b>	<b>13</b>	<b>2</b>
<b>GRAND TOTAL</b>										<b>35</b>		
<b>GRAND TOTAL</b>					<b>111,784</b>	<b>84,495</b>	<b>92</b>	<b>50</b>	<b>24</b>	<b>20</b>	<b>13</b>	<b>2</b>
<b>GRAND TOTAL</b>										<b>35</b>		

09/08/99

See Sheet 1-A For Index of Sheets



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**CARTERET COUNTY**

LOCATION: NC 58, EMERALD DRIVE @ SCOTCH BONNET DRIVE,  
EMERALD ISLE

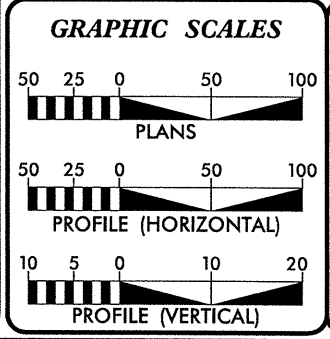
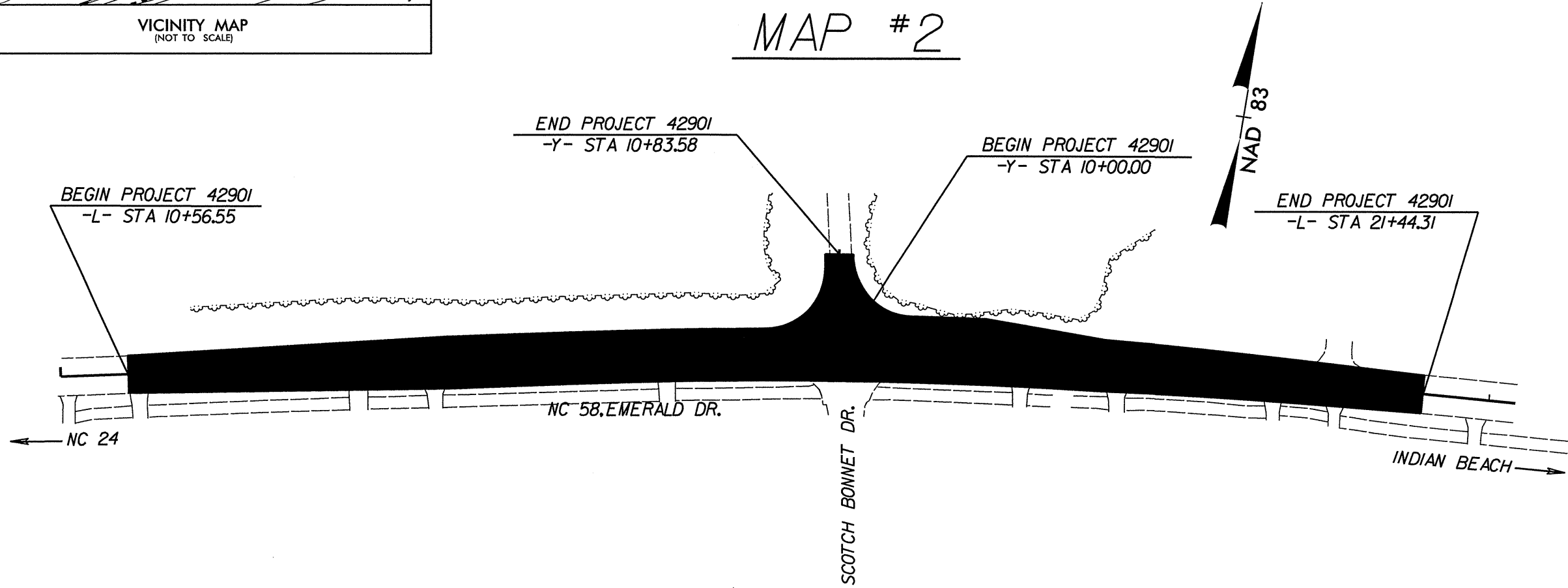
TYPE OF WORK: GRADING, PAVING AND DRAINAGE

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	42901	5	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

PROJECT: 42901

CONTRACT: 42901

MAP #2



PROJECT LENGTH

LENGTH ROADWAY PROJECT 42901 = 0.21 MILES

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
1704 North Greene Street, Greenville NC, 27835

2006 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: DWAYNE H. ALLIGOOD  
PROJECT ENGINEER

LETTING DATE: LANG JONES  
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

ROADWAY DESIGN ENGINEER

SIGNATURE: \_\_\_\_\_ P.E.

DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

STATE HIGHWAY DESIGN ENGINEER

17-AUG-2010 14:50  
C:\PROJETS\CARTERET\Emerald Isle Boot Ramp\elibr\_dac2.psh\_.ldgn  
\$\$\$\$\$USERNAME\$\$\$\$\$

## INDEX OF SHEETS

5	TITLE SHEET
6	INDEX OF SHEETS, LIST OF STANDARDS, AND GENERAL NOTES
7	CONVENTIONAL SYMBOLS
8	TYPICAL SECTIONS
9	SUMMARY OF QUANTITIES
10	SUMMARY OF EARTHWORK
11	PLAN SHEET
PM-1	PAVEMENT MARKING SHEET
EC-1 THRU EC-2	EROSION CONTROL PLAN SHEETS
X-1A	CROSS SECTION EARTHWORK VOLUMES
X-1 THRU X-3	CROSS SECTIONS

## GENERAL NOTES

### GRADE LINE, GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED 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 11.

### 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.

### 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.

### SUBSURFACE INFORMATION:

THERE IS NO SUBSURFACE INFORMATION AVAILABLE FOR THIS PROJECT. THE CONTRACTOR SHALL MAKE HIS OWN INVESTIGATION INTO SUBSURFACE CONDITIONS.

## LIST OF STANDARDS

### 2006 ROADWAY ENGLISH STANDARD DRAWINGS

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

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 11
225.02	Guide for Grading Subgrade - Secondary and Local
225.04	Method of Obtaining Superelevation - Two Lane Pavement
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method 1

3/15/86

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	②③
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	□
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	-----
Proposed Wetland Boundary	-----
Existing Endangered Animal Boundary	-----
Existing Endangered Plant Boundary	-----

### BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G 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	-----
Buffer Zone 1	-----
Buffer Zone 2	-----
Flow Arrow	←
Disappearing Stream	-----
Spring	○
Swamp Marsh	⊕
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	-----
Proposed Temporary Construction Easement	-----
Proposed Temporary Drainage Easement	-----
Proposed Permanent Drainage Easement	-----
Proposed Permanent Utility Easement	-----

### ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
Proposed Wheel Chair Ramp	-----
Proposed Wheel Chair Ramp Curb Cut	-----
Curb Cut for Future Wheel Chair Ramp	-----
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:

MAJOR:	
Bridge, Tunnel or Box Culvert	-----
Bridge Wing Wall, Head Wall and End Wall	-----
MINOR:	
Head and End Wall	-----
Pipe Culvert	-----
Footbridge	-----
Drainage Box: Catch Basin, DI or JB	-----
Paved Ditch Gutter	-----
Storm Sewer Manhole	○
Storm Sewer	-----

### UTILITIES:

POWER:	
Existing Power Pole	○
Proposed Power Pole	○
Existing Joint Use Pole	○
Proposed Joint Use Pole	○
Power Manhole	○
Power Line Tower	⊗
Power Transformer	⊗
U/G Power Cable Hand Hole	⊕
H-Frame Pole	○
Recorded U/G Power Line	-----
Designated U/G Power Line (S.U.E.*)	-----

### TELEPHONE:

Existing Telephone Pole	○
Proposed Telephone Pole	○
Telephone Manhole	○
Telephone Booth	□
Telephone Pedestal	□
Telephone Cell Tower	⊕
U/G Telephone Cable Hand Hole	⊕
Recorded U/G Telephone Cable	-----
Designated U/G Telephone Cable (S.U.E.*)	-----
Recorded U/G Telephone Conduit	-----
Designated U/G Telephone Conduit (S.U.E.*)	-----
Recorded U/G Fiber Optics Cable	-----
Designated U/G Fiber Optics Cable (S.U.E.*)	-----

### WATER:

Water Manhole	○
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
Recorded U/G Water Line	-----
Designated U/G Water Line (S.U.E.*)	-----
Above Ground Water Line	-----

### TV:

TV Satellite Dish	⊕
TV Pedestal	□
TV Tower	⊗
U/G TV Cable Hand Hole	⊕
Recorded U/G TV Cable	-----
Designated U/G TV Cable (S.U.E.*)	-----
Recorded U/G Fiber Optic Cable	-----
Designated U/G Fiber Optic Cable (S.U.E.*)	-----

### GAS:

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

### SANITARY SEWER:

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

### MISCELLANEOUS:

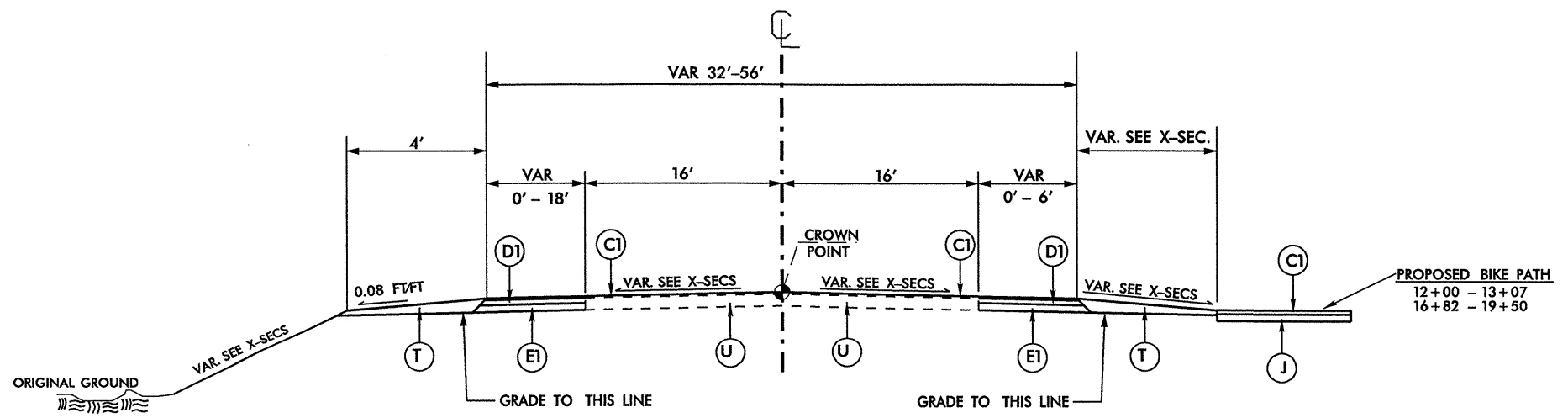
Utility Pole	○
Utility Pole with Base	□
Utility Located Object	○
Utility Traffic Signal Box	⊕
Utility Unknown U/G Line	-----
U/G Tank; Water, Gas, Oil	□
A/G Tank; Water, Gas, Oil	□
U/G Test Hole (S.U.E.*)	⊕
Abandoned According to Utility Records	AATUR
End of Information	E.O.I.

8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
42901		8	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		PAVEMENT DESIGN ENGINEER	

C1	PROP. APPROX. 1½" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ.YD.
D1	PROP. APPROX. 3" ASPHALT CONCRETE BINDER COURSE. TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E1	PROP. APPROX. 4" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 456 LBS. PER SQ. YD.
J	PROP. 8" AGGREGATE BASE COURSE.
T	EARTH MATERIAL.
U	EXISTING PAVEMENT.

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



MAP #2  
 USE TYPICAL SECTION #2  
 -L- 10+56.55 - 21+44.31

REVISIONS

18-AUG-2010 11:35 AM RTRETV\Emerald Isle Boat Ramp\br-ddc2.psh.2.dgn





*NOTE*

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

**PAVEMENT REMOVAL SUMMARY**  
IN SQUARE YARDS

LINE	STATION - STATION	LOCATION	REMOVAL (SY)
-L-	12+00 - 12+41	RT BIKE PATH	49
-L-	12+57 - 13+00	RT BIKE PATH	60
-L-	17+00 - 18+00	RT BIKE PATH	120
-L-	18+13 - 18+34	RT BIKE PATH	24
-L-	18+50 - 18+82	RT BIKE PATH	34
-L-	18+95 - 19+50	RT BIKE PATH	62
<b>TOTAL</b>			
		SAY	350

**SUMMARY OF EARTHWORK**  
IN CUBIC YARDS

LOCATION	UNCLASSIFIED EXCAVATION	EMBT+%	BORROW	WASTE
-L- STA 10+00 TO 21+00	360	912	552	
SUBTOTAL	360	912	552	
LOSS DUE TO CLEARING & GRUBBING				
PROJECT GRAND TOTAL	360	912	552	
SAY	360	920	560	

REVISIONS

8/17/99

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8/17/99

PROJECT REFERENCE NO.		SHEET NO.	
42901		11	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

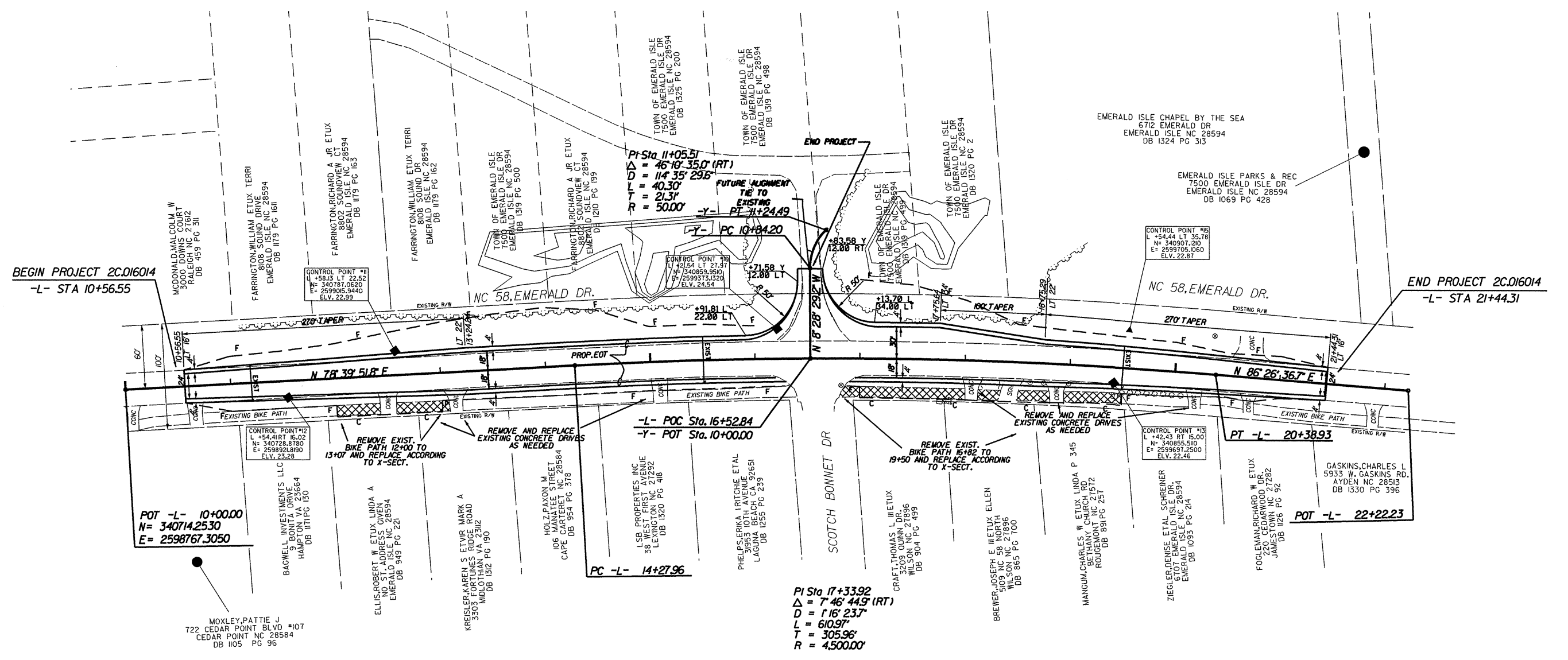
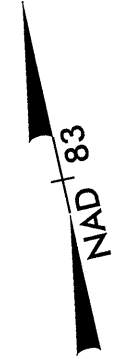
**DATUM DESCRIPTION**

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "CONTROL PT#15" WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 340907.121(ft) EASTING: 2599705.106(ft) ELEVATION: 22.87(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999928494

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "CONTROL PT#15" TO -L- STATION 10+00.00 IS S 78°22'43"W 957.43'

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES VERTICAL DATUM USED IS NAVD 88



REVISIONS

17-AUG-2010 14:51  
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 USER:LEIBR

8/17/99

# PAVEMENT MARKING SCHEDULE

## PAVEMENT MARKING LINES

- AA - THERMOPLASTIC ( 4" WHITE, 120 MILS ) 4' X 2' MINI SKIP
- AB - THERMOPLASTIC ( 4" WHITE, 120 MILS ) SOLID LANE LINE
- AC - THERMOPLASTIC ( 4" WHITE, 90 MILS ) EDGE LINE
- AD - THERMOPLASTIC ( 4" WHITE, 120 MILS ) 10' SKIP LINE
- AE - THERMOPLASTIC ( 24" WHITE, 120 MILS ) STOP BAR
- AF - THERMOPLASTIC ( 4" YELLOW, 120 MILS ) DOUBLE CENTER LINE
- AG - THERMOPLASTIC ( 8" YELLOW, 120 MILS ) DIAGONALS

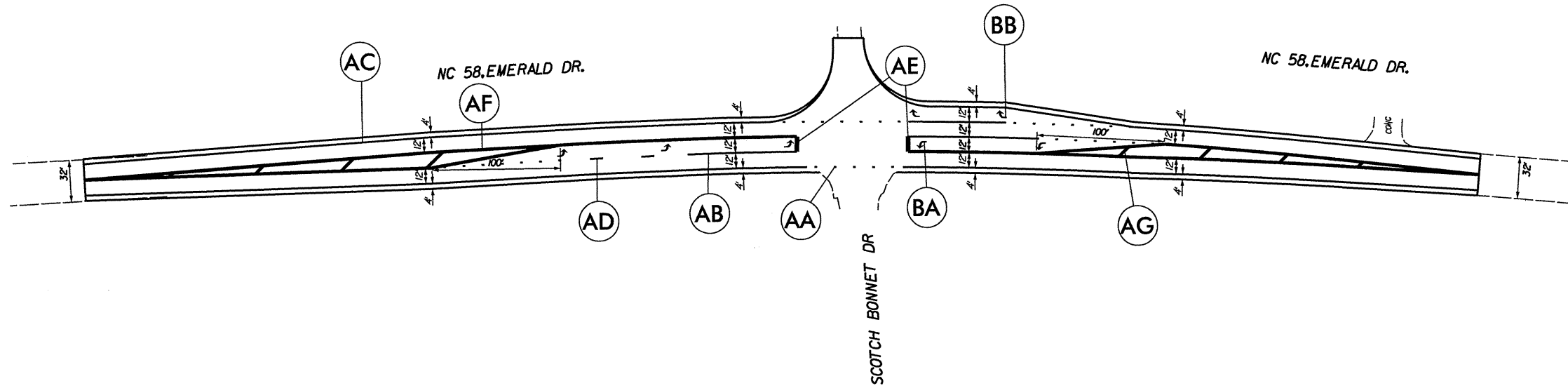
## PAVEMENT MARKING SYMBOLS

- BA - THERMOPLASTIC ( LEFT TURN ARROW, 90 MILS )
- BB - THERMOPLASTIC ( RIGHT TURN ARROW, 90 MILS )

## NOTE

PAINT MARKINGS AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, NCDOT ROADWAY STANDARD DRAWINGS, AND THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES ( MUTCD ). QUANTITIES FOR THESE ITEMS HAVE BEEN ACCOUNTED FOR IN THE CONTRACT BID FORM.

PROJECT REFERENCE NO.	SHEET NO.
42901	PM-1
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	



REVISIONS

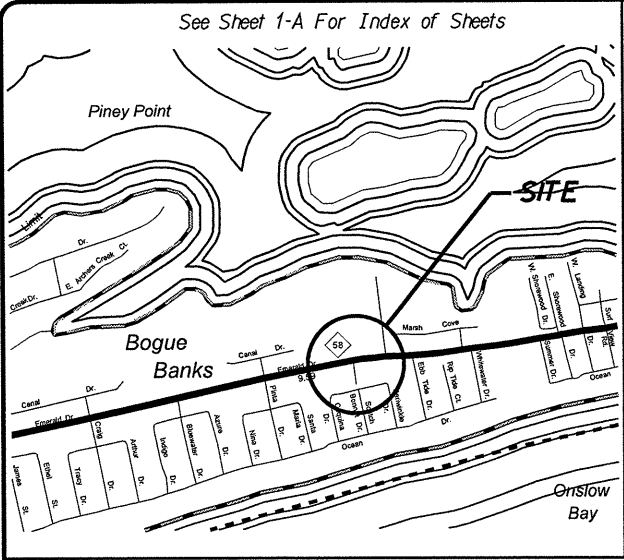
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09/08/09

PROJECT: 42901

CONTRACT: 42901

CONTRACT: 42901



VICINITY MAP

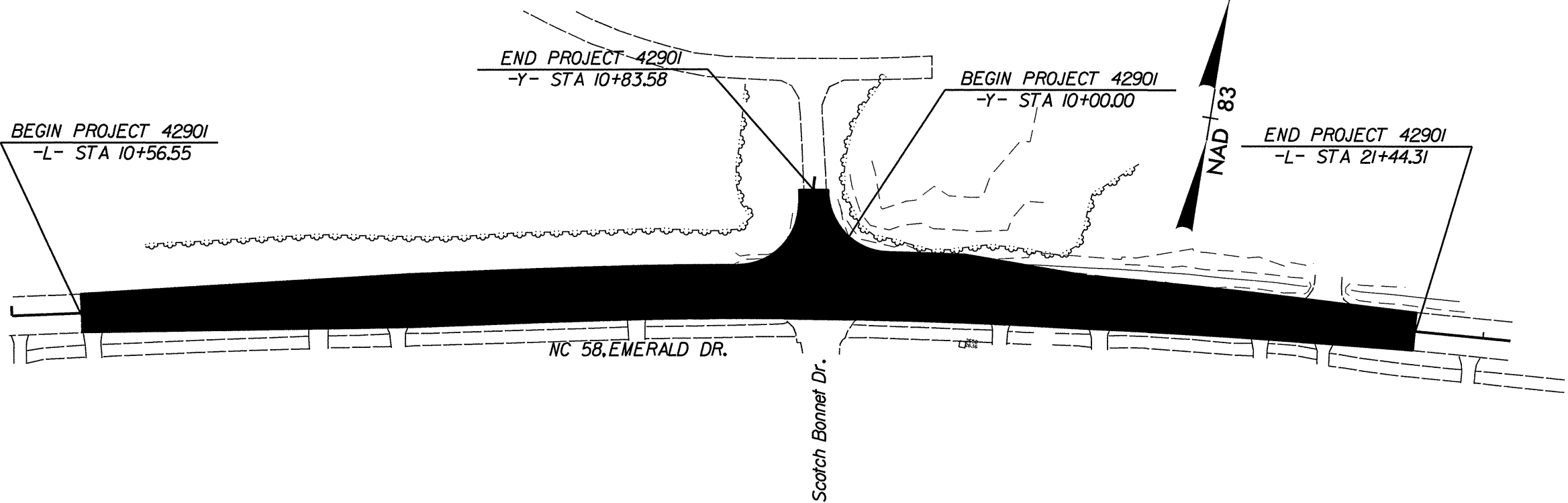
STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

PLAN FOR PROPOSED  
HIGHWAY EROSION CONTROL

Level III-A Certification Number: 273

MAP #2

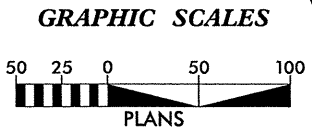
THIS PROJECT CONTAINS EROSION CONTROL PLANS FOR CLEARING AND GRUBBING PHASE OF CONSTRUCTION.



STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	42901	EC-1	3
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
2C.016014		PE	

EROSION AND SEDIMENT CONTROL MEASURES

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	— III — III — III —
1606.01	Special Sediment Control Fence	— X — X — X — X — X — X —
SP	Wattle W / Polyacrylamide	— · — · — · — · — · — · —



DESIGN DATA

PROJECT LENGTH

LENGTH ROADWAY PROJECT 42901 -L- = 0.21 MILES

Prepared In the Office of:  
**DIVISION OF HIGHWAYS**  
1000 Birch Ridge Dr., Raleigh NC, 27610

2006 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE:	DWAYNE ALLIGOOD PROJECT ENGINEER
LETTING DATE:	DWAYNE ALLIGOOD PROJECT DESIGN ENGINEER

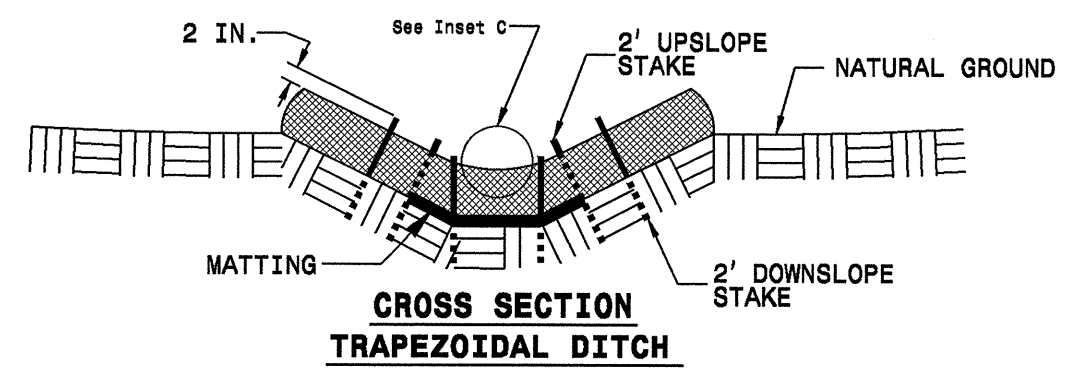
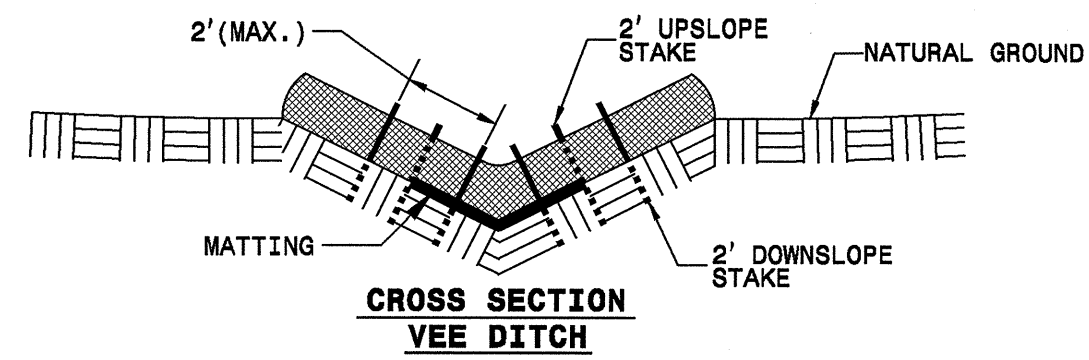
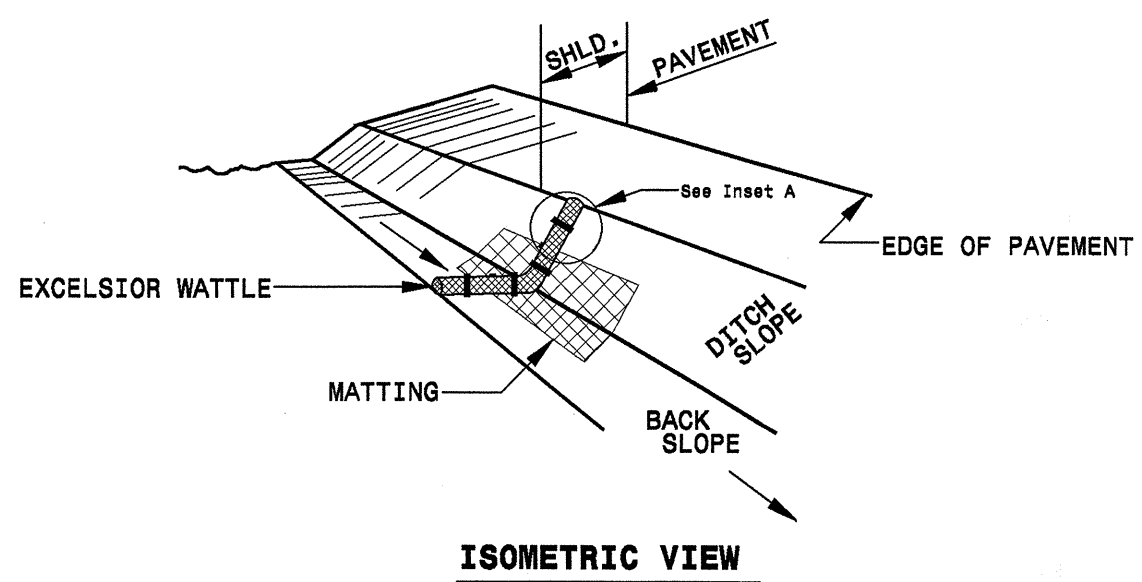
Roadway Standard Drawings

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design Unit - N. C. Department of Transportation - Raleigh, N. C., dated July 18, 2006 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

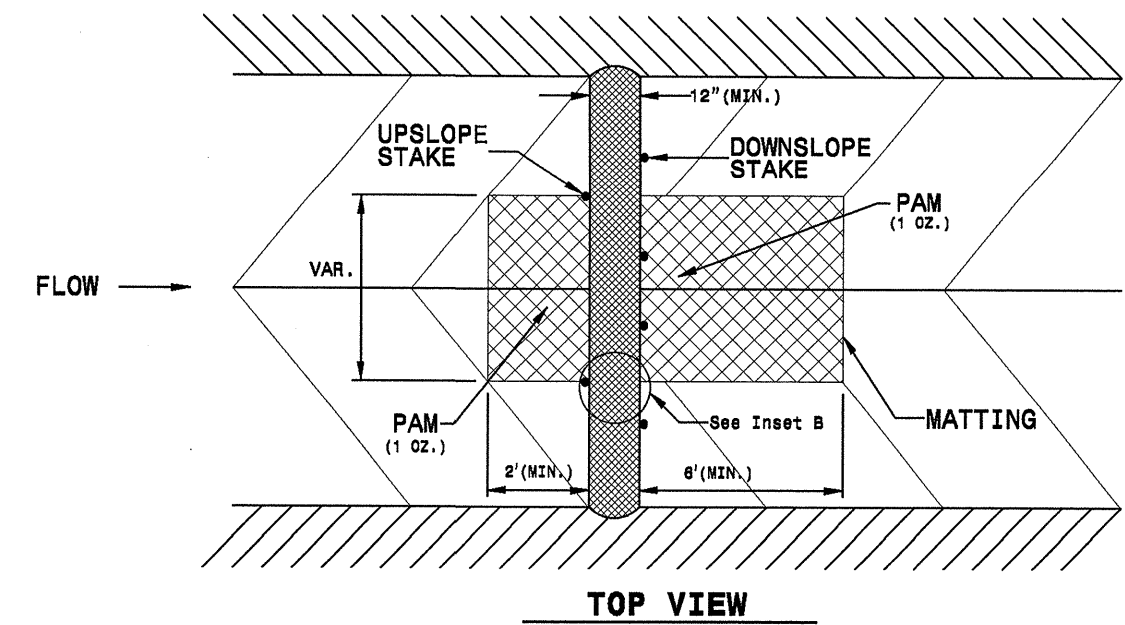
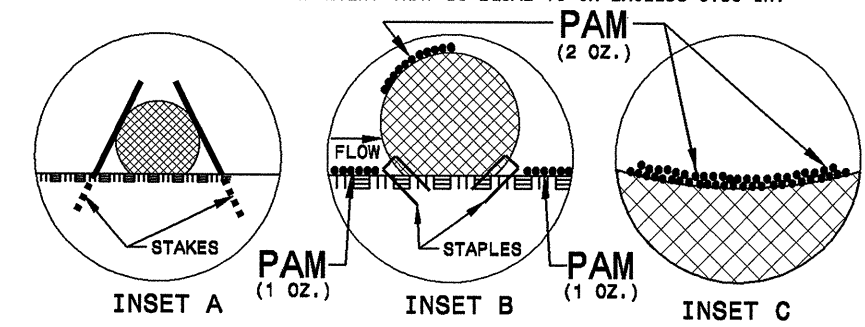
1604.01 Railroad Erosion Control Detail	1630.06 Special Stilling Basin
1605.01 Temporary Silt Fence	1632.01 Rock Inlet Sediment Trap Type A
1606.01 Special Sediment Control Fence	1632.02 Rock Inlet Sediment Trap Type B
1607.01 Gravel Construction Entrance	1632.03 Rock Inlet Sediment Trap Type C
1622.01 Temporary Berms and Slope Drains	1633.01 Temporary Rock Silt Check Type A
1630.01 Riser Basin	1634.01 Temporary Rock Sediment Dam Type A
1630.03 Temporary Silt Ditch	1634.02 Temporary Rock Sediment Dam Type B
1630.04 Stilling Basin	1635.01 Rock Pipe Inlet Sediment Trap Type A
1630.05 Temporary Diversion	1635.02 Rock Pipe Inlet Sediment Trap Type B

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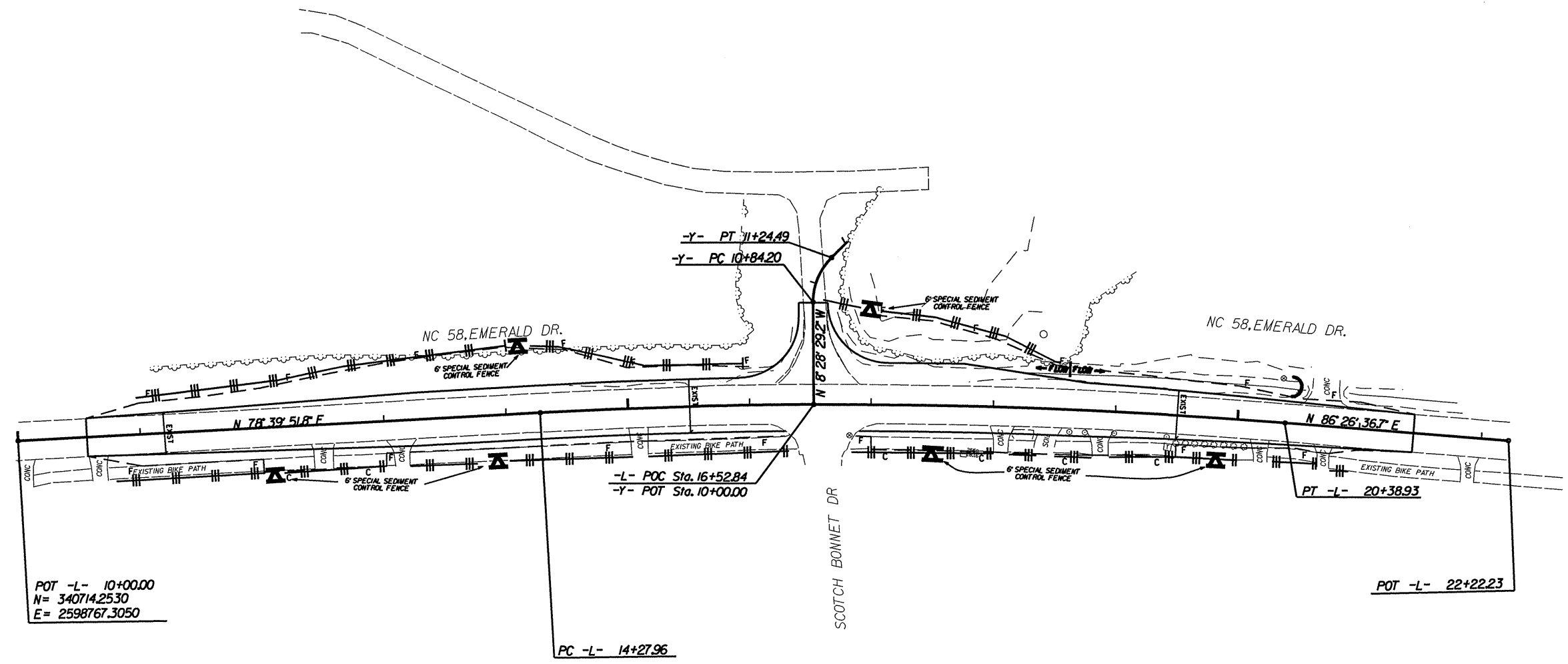
# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



- NOTES:
- USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE.
  - USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.
  - ONLY INSTALL WATTLE(S) TO A HEIGHT IN DITCH SO FLOW WILL NOT WASH AROUND WATTLE AND SCOUR DITCH SLOPES AND AS DIRECTED.
  - INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO BOTTOM OF DITCH.
  - PROVIDE STAPLES MADE OF 0.125 IN. DIAMETER STEEL WIRE FORMED INTO A U SHAPE NOT LESS THAN 12" IN LENGTH.
  - INSTALL STAPLES APPROXIMATELY EVERY 1 LINEAR FOOT ON BOTH SIDES OF WATTLE AND AT EACH END TO SECURE IT TO THE SOIL.
  - INSTALL MATTING IN ACCORDANCE WITH SECTION 1631 OF THE STANDARD SPECIFICATIONS.
  - PRIOR TO POLYACRYLAMIDE (PAM) APPLICATION, OBTAIN A SOIL SAMPLE FROM PROJECT LOCATION, AND FROM OFFSITE MATERIAL, AND ANALYZE FOR APPROPRIATE PAM FLOCCULANT TO BE APPLIED TO EACH WATTLE.
  - INITIALLY APPLY 2 OUNCES OF ANIONIC OR NEUTRALLY CHARGED PAM OVER WATTLE WHERE WATER WILL FLOW AND 1 OUNCE OF PAM ON MATTING ON EACH SIDE OF WATTLE. REAPPLY PAM AFTER EVERY RAINFALL EVENT THAT IS EQUAL TO OR EXCEEDS 0.50 IN.



PROJECT REFERENCE NO.	SHEET NO.
42901	EC-2
RW SHEET NO.	



PI Sta. 17+33.92  
 $\Delta = 7^\circ 46' 44.9''$  (RT)  
 D = 116' 23.7"  
 L = 610.97'  
 T = 305.96'  
 R = 4,500.00'

POT -L- 10+00.00  
 N = 340714.2530  
 E = 2598767.3050

POT -L- 22+22.23

PC -L- 14+27.96

REVISIONS

B/17/99

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8/17/99

# PAVEMENT MARKING SCHEDULE

## PAVEMENT MARKING LINES

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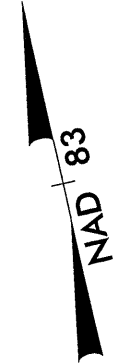
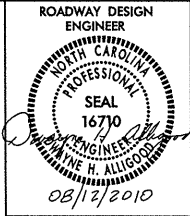
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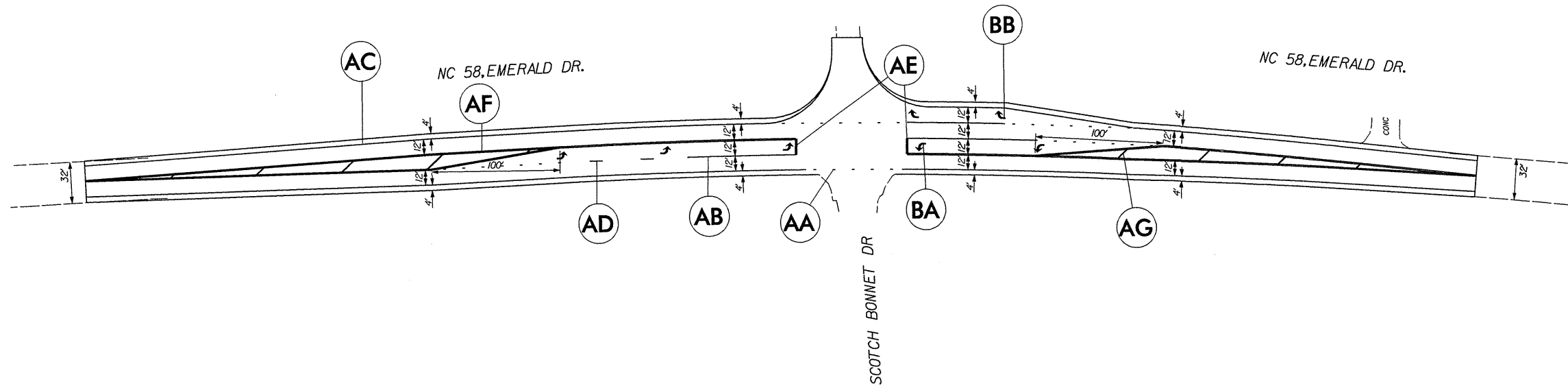
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PROJECT REFERENCE NO. 42901	SHEET NO. PM-1
RW SHEET NO.	



REVISIONS



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 mbeckson



DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJ. REFERENCE NO.	SHEET NO.
42901	X-1A

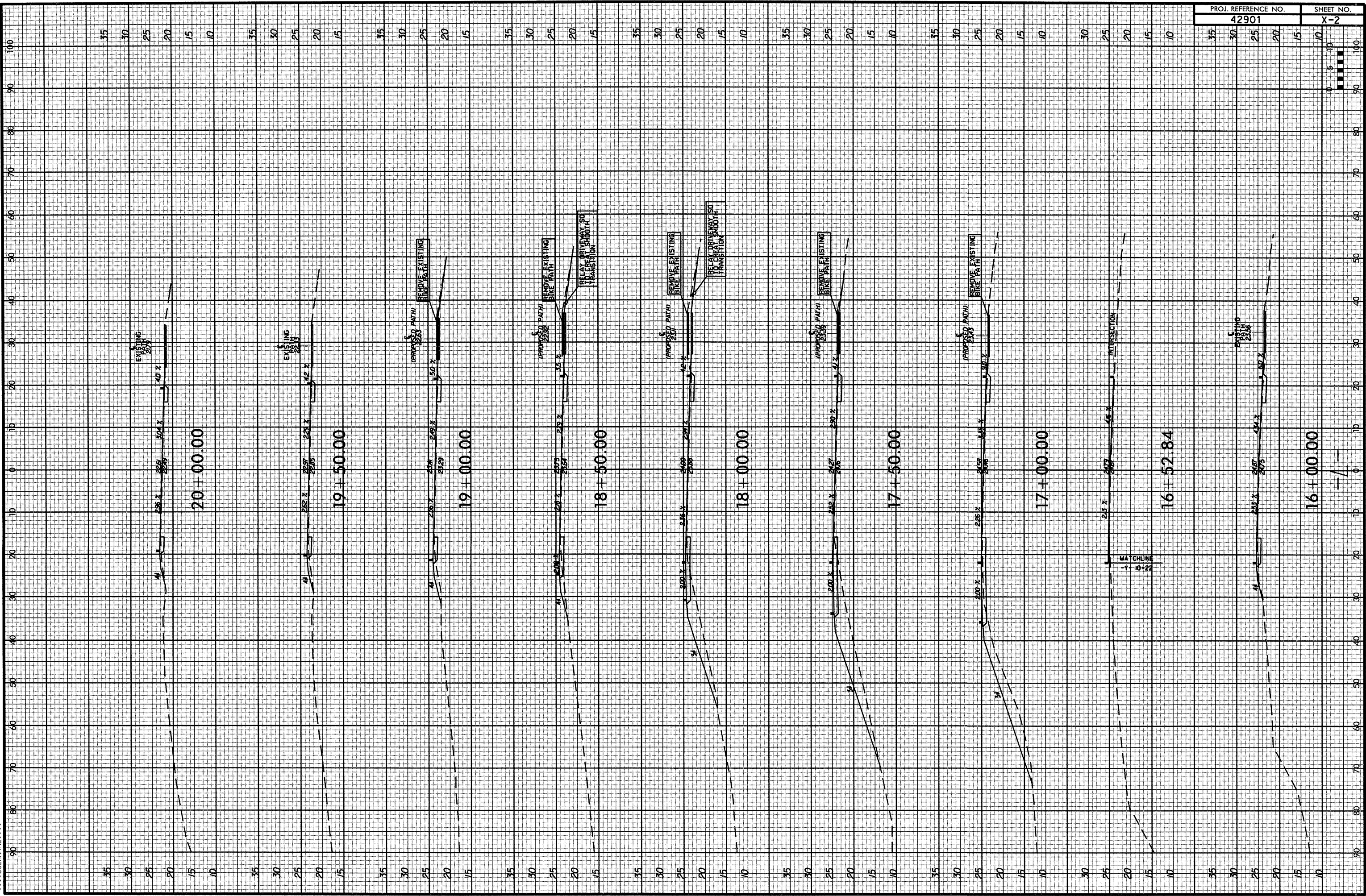
**CROSS-SECTION SUMMARY**

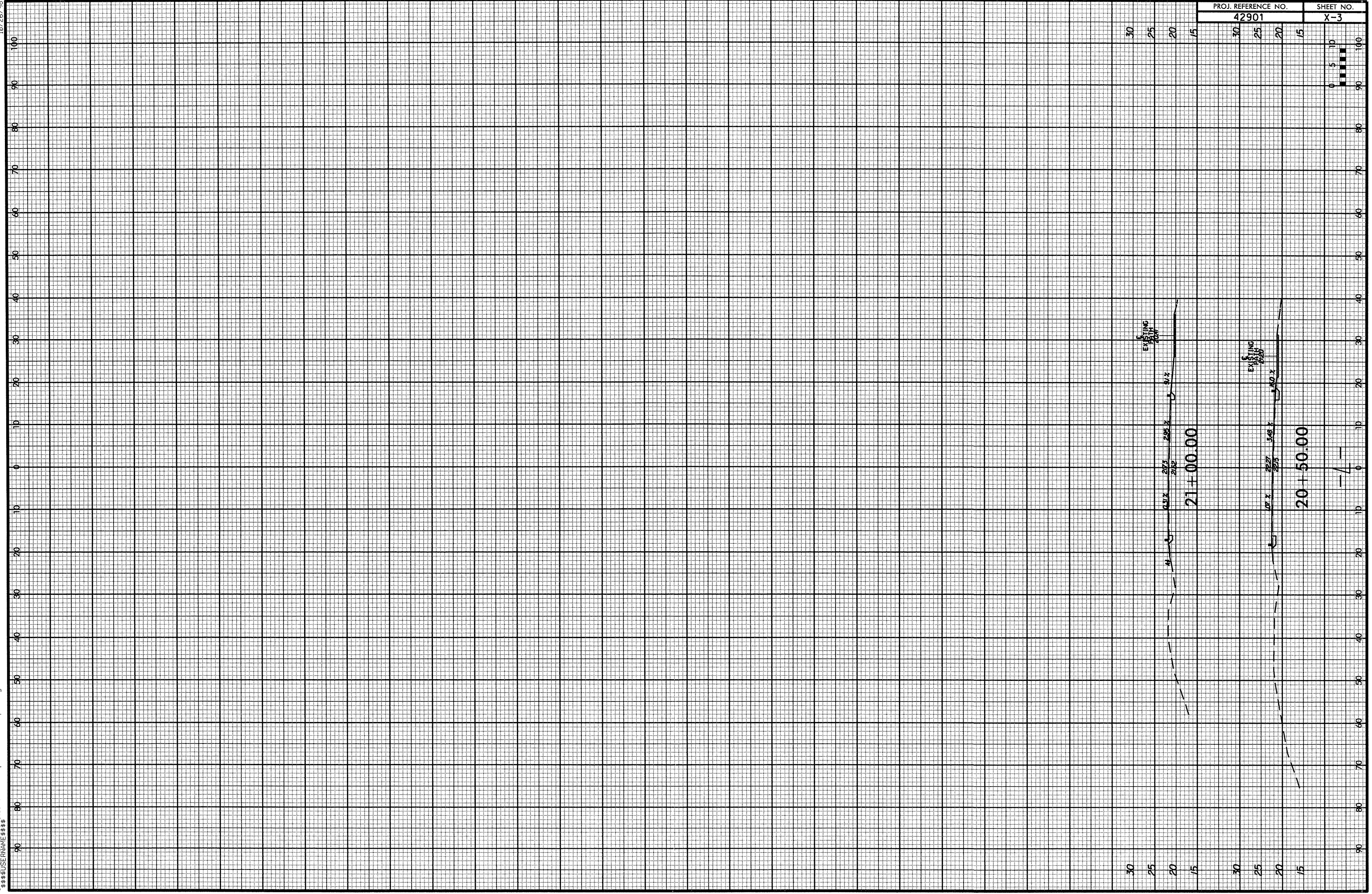
IN CUBIC YARDS

LOCATION (-L-)	UNCLASSIFIED EXCAVATION	UNDERCUT	EMBANKMENT
11+00.00	0	0	0
11+50.00	6	0	7
12+00.00	8	0	13
12+50.00	18	0	20
13+00.00	18	0	34
13+50.00	11	0	48
14+00.00	12	0	52
14+50.00	11	0	42
15+00.00	11	0	26
15+50.00	13	0	20
16+00.00	15	0	13
17+00.00	49	0	134
17+50.00	28	0	144
18+00.00	38	0	124
18+50.00	44	0	49
19+00.00	31	0	12
19+50.00	19	0	10
20+00.00	12	0	6
20+50.00	10	0	2
21+00.00	6	0	1

NOTE: Approximate quantities only. Unclassified excavation, Borrow Excavation, Fine Grading, Clearing and Grubbing, Removal of Existing Pavement will be paid for at the contract Lump Sum price for "Grading".







30  
25  
20  
15

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15

30  
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15

30  
25  
20  
15

EXISTING  
DEPTH  
2.00

EXISTING  
DEPTH  
2.00

3%  
273  
252

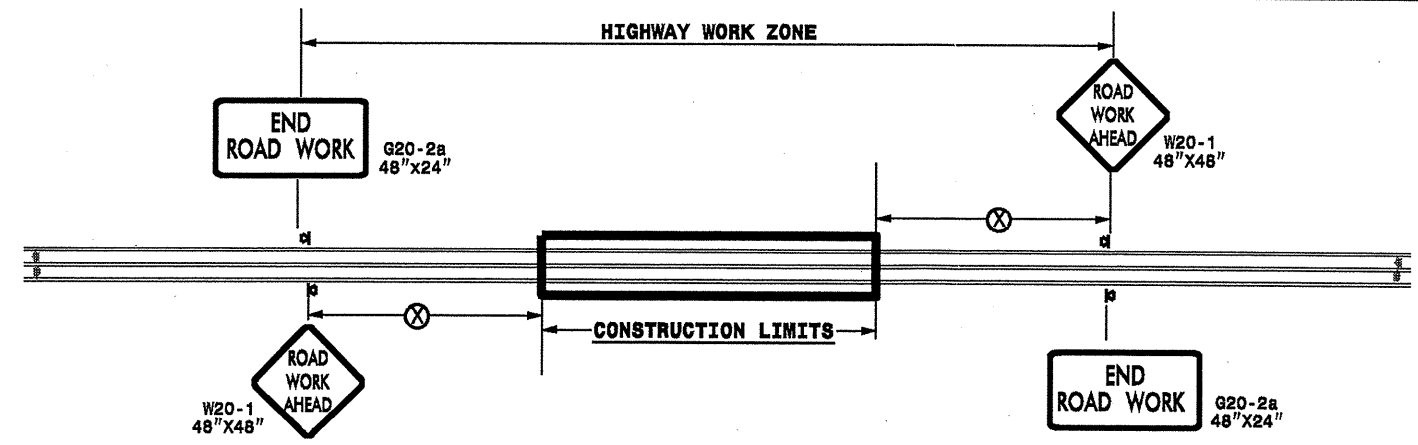
3%  
277  
255

21+00.00

20+50.00



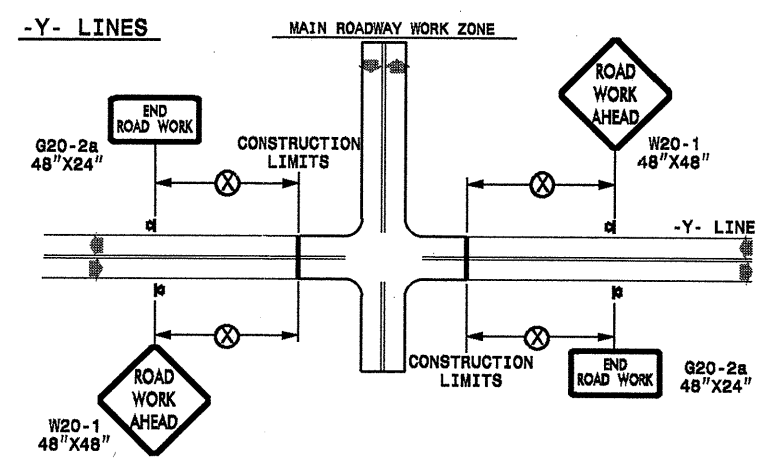
**TWO-WAY UNDIVIDED \*\* (L-LINES)**



POSTED SPEED LIMIT (M.P.H.)	RECOMMENDED MINIMUM SIGN SPACING
≤ 50	500'
≥ 55	1000'

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

**ROADWAYS INTERSECTING ALONG 2 WAY UNDIVIDED WORK ZONE (Y-LINES)**



**GENERAL NOTES**

- USE FLUORESCENT ORANGE SHEETING (TYPE VII OR HIGHER) ON ALL ADVANCE WORK ZONE SIGNS.
- DO NOT INSTALL ADVANCE WARNING SIGNS MORE THAN 3 DAYS PRIOR TO BEGINNING OF WORK.
- ALL SIGN SPACING DIMENSIONS ARE APPROXIMATE, FIELD ADJUST AS NECESSARY OR AS DIRECTED.
- USE PORTABLE WORK ZONE SIGNS ONLY WITH PORTABLE WORK ZONE SIGN STANDS SPECIFICALLY DESIGNED FOR ONE ANOTHER. PORTABLE WORK ZONE SIGNS MAY BE ROLL UP OR APPROVED COMPOSITE.
- PROVIDE PORTABLE WORK ZONE SIGN STANDS, PORTABLE SIGNS AND SIGN SHEETING WHICH ARE LISTED ON THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION'S APPROVED PRODUCT LIST OR ACCEPTED AS TRAFFIC QUALIFIED BY THE TRAFFIC CONTROL UNIT.
- \*\* TWO-WAY UNDIVIDED ADVANCE WARNING SIGN CONFIGURATION MAY BE USED ON URBAN MULTI-LANE FACILITIES WHERE CONDITIONS LIMIT THE USE OF DUAL MOUNTED SIGNS AS DETERMINED BY THE ENGINEER.

**LEGEND**

◀ PORTABLE SIGN

➔ DIRECTION OF TRAFFIC FLOW

DETAIL DRAWING  
FOR TWO-WAY UNDIVIDED  
WORK ZONE WARNING SIGNS

SHEET 1 OF 1

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pseymore AT WZTC237502

APPROVED: _____ DATE: _____	DETAIL DRAWING FOR TWO-WAY UNDIVIDED ADVANCED WORK ZONE WARNING SIGNS		SCALE: NONE	REVISIONS
SEAL			DATE: 7-98 10/01 DWG. BY: 10-98 03/04 DESIGN BY: 01/01 11/04 REVIEWED BY:	