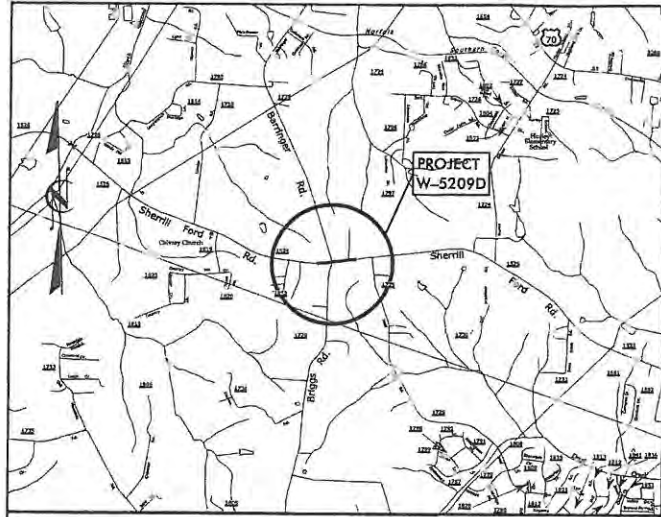


01/28/09

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



VICINITY MAP

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

**ROWAN COUNTY**

LOCATION: **SHERRILLS FORD ROAD (SR 1526) AT BRIGGS RD/  
BARRINGER RD. (SR 1728)**

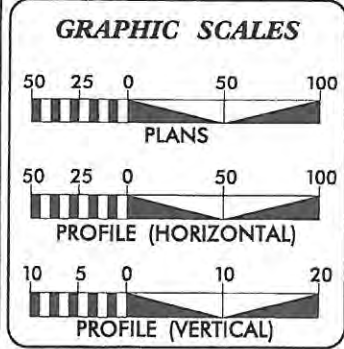
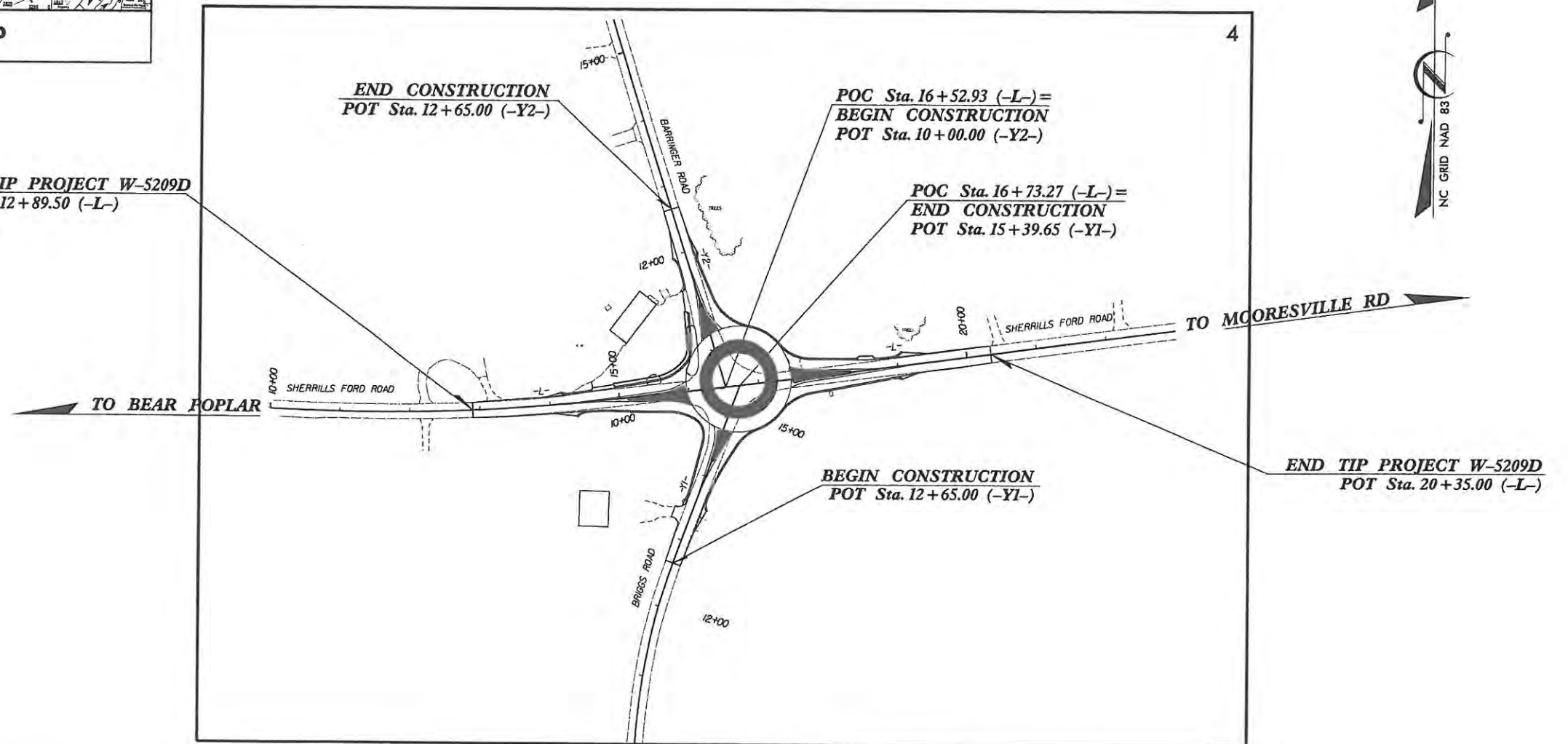
TYPE OF WORK: **GRADING, PAVING, DRAINAGE, SIGNING,  
AND PAVEMENT MARKING**

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5209D	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

100% FINAL SUBMITTAL  
AUGUST 2012

TIP PROJECT: W-5209D

CONTRACT: DI00015



**DESIGN DATA**

ADT 2011 =	5,900
ADT 2021 =	8,000
DHV =	11 %
D =	50 %
T =	8 % *
V =	40 MPH
(* TTST 3%+ DUAL 5%)	
FUNC CLASS =	RURAL COLLECTOR SUBREGIONAL TIER

**PROJECT LENGTH**

LENGTH OF ROADWAY T.I.P. PROJECT W-5209D	=	0.141 MI.
LENGTH OF STRUCTURE T.I.P. PROJECT W-5209D	=	0.000 MI
TOTAL LENGTH OF T.I.P. PROJECT W-5209D	=	0.141 MI

PREPARED IN THE OFFICE OF:

Stantec Consulting Inc.  
801 James Franklin Road, Suite 300  
Raleigh, NC U.S.A.  
27606  
NC Lic. # 0572

FOR THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: APRIL 10, 2012

LETTING DATE: SEPT 26, 2012

G. SCOTT BOYLES, PE  
PROJECT ENGINEER

ROBERT WILLIAMS, PE  
PROJECT DESIGN ENGINEER

**HYDRAULIC ENGINEER**

SEAL 18462  
ENGINEER  
JAMES C. DAVIS

SIGNATURE: *James C. Davis* P.E. 8/29/12

**ROADWAY DESIGN ENGINEER**

SEAL 30932  
ENGINEER  
ROBERT A. WILLIAMS

SIGNATURE: *Robert A. Williams* P.E. 8/29/12



3/29/2012 J:\Roadway\Proj\171001\56\_rdy\_tsh.dgn cwilliam

8/17/99

PROJECT REFERENCE NO.	SHEET NO.
W-5209D	1-A

STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS



INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1-A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARD DRAWINGS
1-B	CONVENTIONAL SYMBOLS
2 THRU 2-A	PAVEMENT SCHEDULE, TYPICAL SECTIONS, AND WEDGING DETAILS
2-B	ROUNDBOUT DETAIL SHEET
2-C	ROUNDBOUT PROPOSED GRADING SHEET
3	SUMMARY OF EARTHWORK AND ASPHALT PAVEMENT REMOVAL
3-A THRU 3-B	SUMMARY OF DRAINAGE QUANTITIES
4	PLAN SHEET
5 THRU 6	PROFILE SHEET
TMP-1 THRU TMP-7C	TRAFFIC MANAGEMENT PLANS
PMP-1 THRU PMP-2	PAVEMENT MARKING PLANS
EC-1 THRU EC-5	EROSION CONTROL PLANS
SIGN-1 THRU SIGN-4	SIGNING PLANS
UBO-1	UTILITIES BY OTHERS PLANS
X-A	CROSS-SECTION SUMMARIES
X-1 THRU X-9	CROSS-SECTIONS

GENERAL NOTES

GENERAL NOTES: 2012 SPECIFICATIONS  
EFFECTIVE: 01-17-12  
REVISED: 11/01/11

GRADING AND SURFACING OR RESURFACING AND WIDENING:  
THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. WHERE NO GRADE LINES ARE SHOWN, THE PROFILES SHOWN DENOTE THE TOP ELEVATION OF THE EXISTING PAVEMENT ALONG THE CENTER LINE OF SURVEY ON WHICH THE PROPOSED RESURFACING WILL BE PLACED. GRADE LINES MAY BE ADJUSTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

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

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

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

DRIVEWAYS:  
DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH STD. 848.03 AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.

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 Duke Energy, AT&T, Time Warner Cable, and Piedmont Natural Gas.  
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 CONTRACT.

ROADWAY STANDARD DRAWINGS

2012 ROADWAY ENGLISH STANDARD DRAWINGS

The following Roadway Standards as appear in "Roadway Standard Drawings" Highway Design Branch - N. C. Department of Transportation - Raleigh, N. C., Dated January, 2012 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 Superlevation - Two Lane Pavement
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
310.02	Parallel Pipe End Section - Precast Concrete Section for 15" to 24" Pipe
310.04	Parallel Pipe End Section - Prefabricated Steel Section for 15" to 24" Pipe
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction - High Side of Superelevated Curve - Method I
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
654.01	Pavement Repairs
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS	
700.01	Concrete Pavement Joints - Construction and Contraction Joints
700.04	Concrete Pavement Header Board
DIVISION 8 - INCIDENTALS	
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
840.31	Concrete Junction Box - 12" thru 66" Pipe
840.32	Brick Junction Box - 12" thru 66" Pipe
846.01	Concrete Curb, Gutter and Curb & Gutter
848.03	Driveway Turnout - Drop Curb Type
852.01	Concrete Islands
876.02	Guide for Rip Rap at Pipe Outlets

8/15/2012  
U:\Roadway\Proc\17100125B\_rdy\_psh1b.dwg  
C:\Users\...















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	_____ 
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	_____ 
Known Soil Contamination: Boundary or Site	_____ 
Potential Soil Contamination: Boundary or Site	_____ 

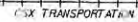

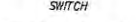


## BUILDINGS AND OTHER CULTURE:

Gas Pump Vent or U/G Tank Cap	_____ 
Sign	_____ 
Well	_____ 
Small Mine	_____ 
Foundation	_____ 
Area Outline	_____ 
Cemetery	_____ 
Building	_____ 
School	_____ 
Church	_____ 
Dam	_____ 






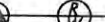










## HYDROLOGY:

Stream or Body of Water	_____
Hydro, Pool or Reservoir	_____ 
Jurisdictional Stream	_____ 
Buffer Zone 1	_____ 
Buffer Zone 2	_____ 
Flow Arrow	_____ 
Disappearing Stream	_____ 
Spring	_____ 
Wetland	_____ 
Proposed Lateral, Tail, Head Ditch	_____ 
False Sump	_____ 






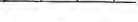




## RAILROADS:

Standard Gauge	_____ 
RR Signal Milepost	_____ 
Switch	_____ 
RR Abandoned	_____ 
RR Dismantled	_____ 





## RIGHT OF WAY:

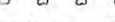

Baseline Control Point	_____ 
Existing Right of Way Marker	_____ 
Existing Right of Way Line	_____ 
Proposed Right of Way Line	_____ 
Proposed Right of Way Line with Iron Pin and Cap Marker	_____ 
Proposed Right of Way Line with Concrete or Granite Marker	_____ 
Existing Control of Access	_____ 
Proposed Control of Access	_____ 
Existing Easement Line	_____ 
Proposed Temporary Construction Easement	_____ 
Proposed Temporary Drainage Easement	_____ 
Proposed Permanent Drainage Easement	_____ 
Proposed Permanent Drainage / Utility Easement	_____ 
Proposed Permanent Utility Easement	_____ 
Proposed Temporary Utility Easement	_____ 
Proposed Aerial Utility Easement	_____ 

## ROADS AND RELATED FEATURES:

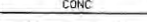

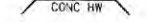






Existing Edge of Pavement	_____
Existing Curb	_____
Proposed Slope Stakes Cut	_____ 
Proposed Slope Stakes Fill	_____ 
Proposed Curb Ramp	_____ 
Curb Cut Future Ramp	_____ 
Existing Metal Guardrail	_____ 
Proposed Guardrail	_____ 
Existing Cable Guiderail	_____ 
Proposed Cable Guiderail	_____ 
Equality Symbol	_____ 
Pavement Removal	_____ 

## VEGETATION:










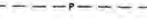

Single Tree	_____ 
Single Shrub	_____ 
Hedge	_____ 
Woods Line	_____ 

Orchard	_____ 
Vineyard	_____ 








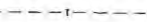
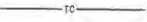
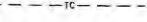
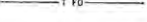


## EXISTING STRUCTURES:

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	_____ 





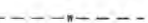
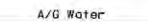

## UTILITIES:

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.*)	_____ 






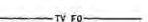
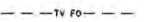

## TELEPHONE:

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.*)	_____ 




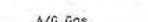

## WATER:

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	_____ 
Underground Storage Tank, Approx. Loc.	_____ 
A/G Tank; Water, Gas, Oil	_____ 
Geoenvironmental Boring	_____ 
U/G Test Hole (S.U.E.*)	_____ 
Abandoned According to Utility Records	_____ 
End of Information	_____ 




5/2/99

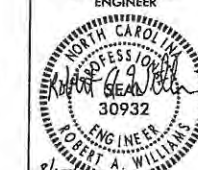
**PAVEMENT SCHEDULE**

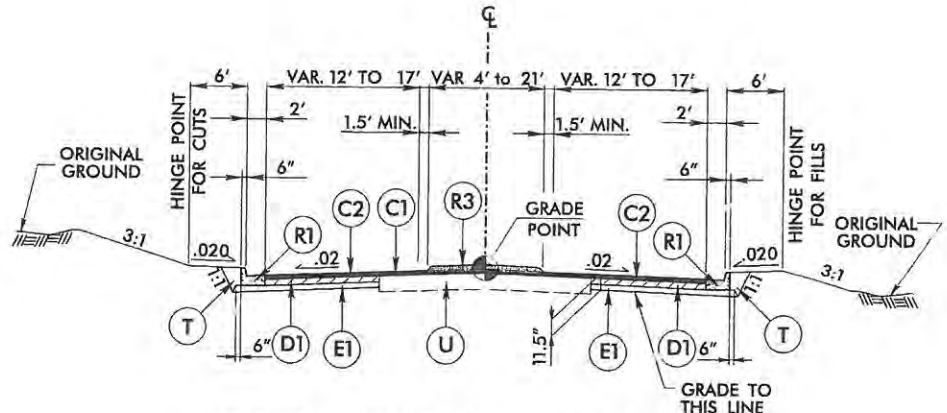
A1	7" PORTLAND CEMENT CONCRETE PAVEMENT TYPE A W/ 4"x4" W3.5XW3.5 OR 6"x6" W5XW5 WIRE MESH REINFORCEMENT. JOINT SPACING IS 15'
C1	PROP. APPROX. 1.5" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD.
C2	PROP. APPROX. 3.0" ASPHALT CONCRETE SURFACE COURSE TYPE S9.5B, AT AN AVERAGE RATE OF 168 LBS. PER SQ. YD. IN EACH OF TWO LAYERS.
C3	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 1.5" OR GREATER THAN 2.0"
D1	PROP. APPROX. 4" ASPHALT CONCRETE INTERMEDIATE COURSE TYPE I19.0B, AT AN AVERAGE RATE OF 458 LBS. PER SQ. YD.
D2	PROP. VAR. DEPTH ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 2.5" OR GREATER THAN 4.0"
E1	PROP. 4.5" DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 513 LBS. PER SQ. YD.
E2	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5.5" IN DEPTH.
R1	2'-6" CONCRETE CURB AND GUTTER
R2	2'-6" SPECIAL MOUNTABLE CONCRETE CURB AND GUTTER
R3	PROP. 5" MONOLITHIC CONC. ISLAND (KEYED IN)
T	EARTH MATERIAL
U	EXISTING PAVEMENT
W	VARIABLE DEPTH ASPHALT PAVEMENT (SEE WEDGING DETAIL THIS SHEET)

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



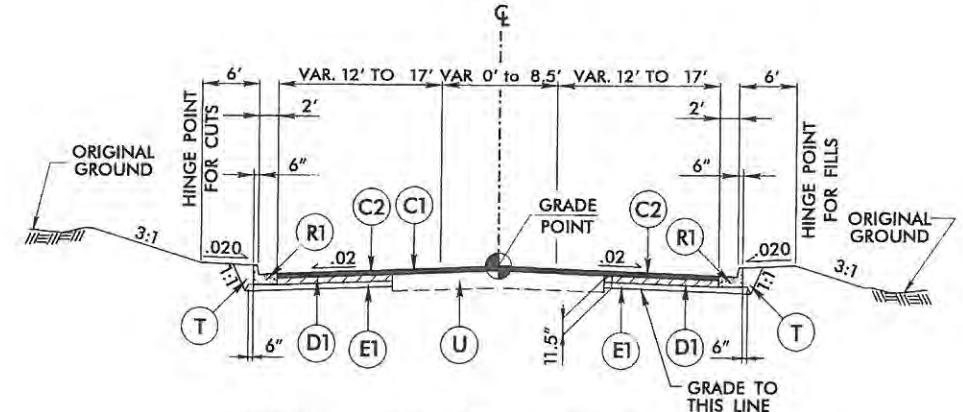
**Stantec**  
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27608  
Tel. (919) 851-4868  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0872

PROJECT REFERENCE NO.	W-5209D	SHEET NO.	2
ROADWAY DESIGN ENGINEER	 ROBERT A. WILLIAMS ENGINEER 30932 8/15/12	PAVEMENT DESIGN ENGINEER	



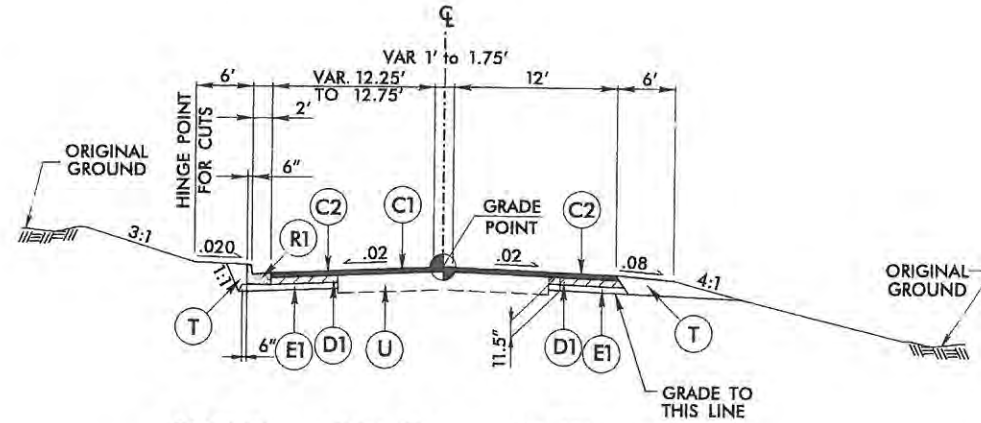
ROADWAY	FROM STA.	TO STA.	REMARKS
-L-	15+11.56	15+97.19	
-L-	17+47.27	18+33.11	
-Y1-	14+23.42	14+71.19	
-Y2-	10+79.15	11+24.06	

**TYPICAL SECTION NO. 1**



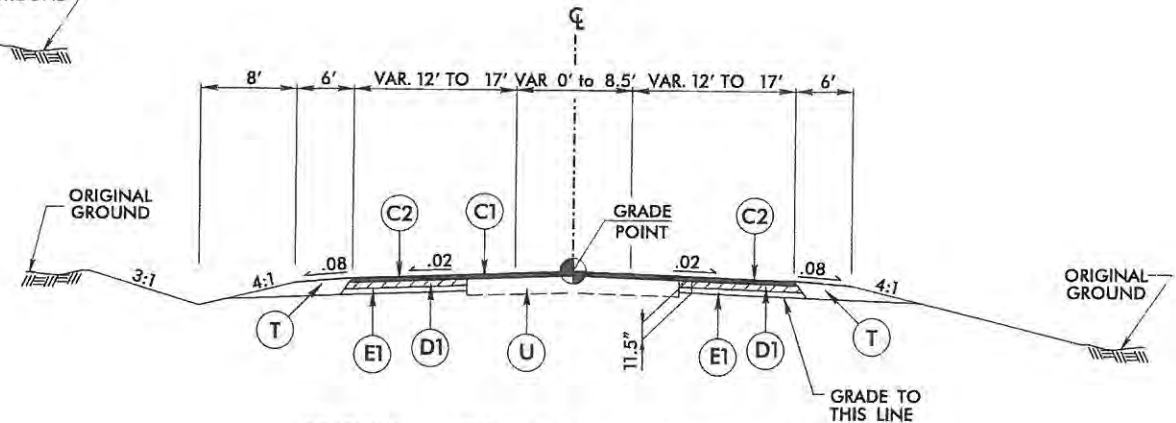
ROADWAY	FROM STA.	TO STA.	REMARKS
-L-	14+37.09	15+11.56	
-L-	18+33.11	19+08.74	
-Y1-	13+50.56	14+23.42	
-Y2-	11+24.06	11+96.82	

**TYPICAL SECTION NO. 2**



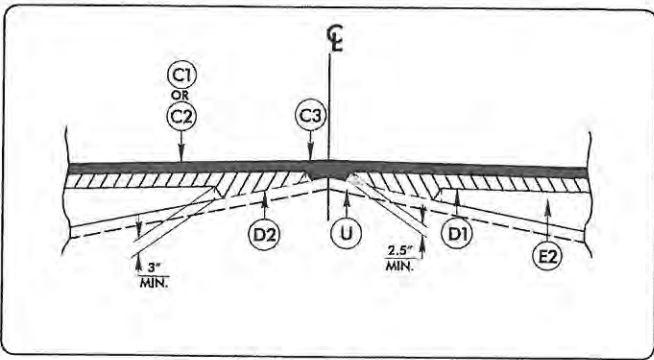
ROADWAY	FROM STA.	TO STA.	REMARKS
-L-	14+15.73	14+37.09	

**TYPICAL SECTION NO. 3**



ROADWAY	FROM STA.	TO STA.	REMARKS
-L-	12+89.50	14+15.73	
-L-	19+08.74	20+35.00	
-Y1-	12+65.00	13+50.56	
-Y2-	11+96.82	12+65.00	

**TYPICAL SECTION NO. 4**



**WEDGING DETAIL**  
LOCATIONS AS DETERMINED BY ENGINEER

8/15/2012 U:\Projects\1301256\_rdl\_sja.dgn



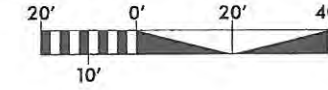




8/17/99

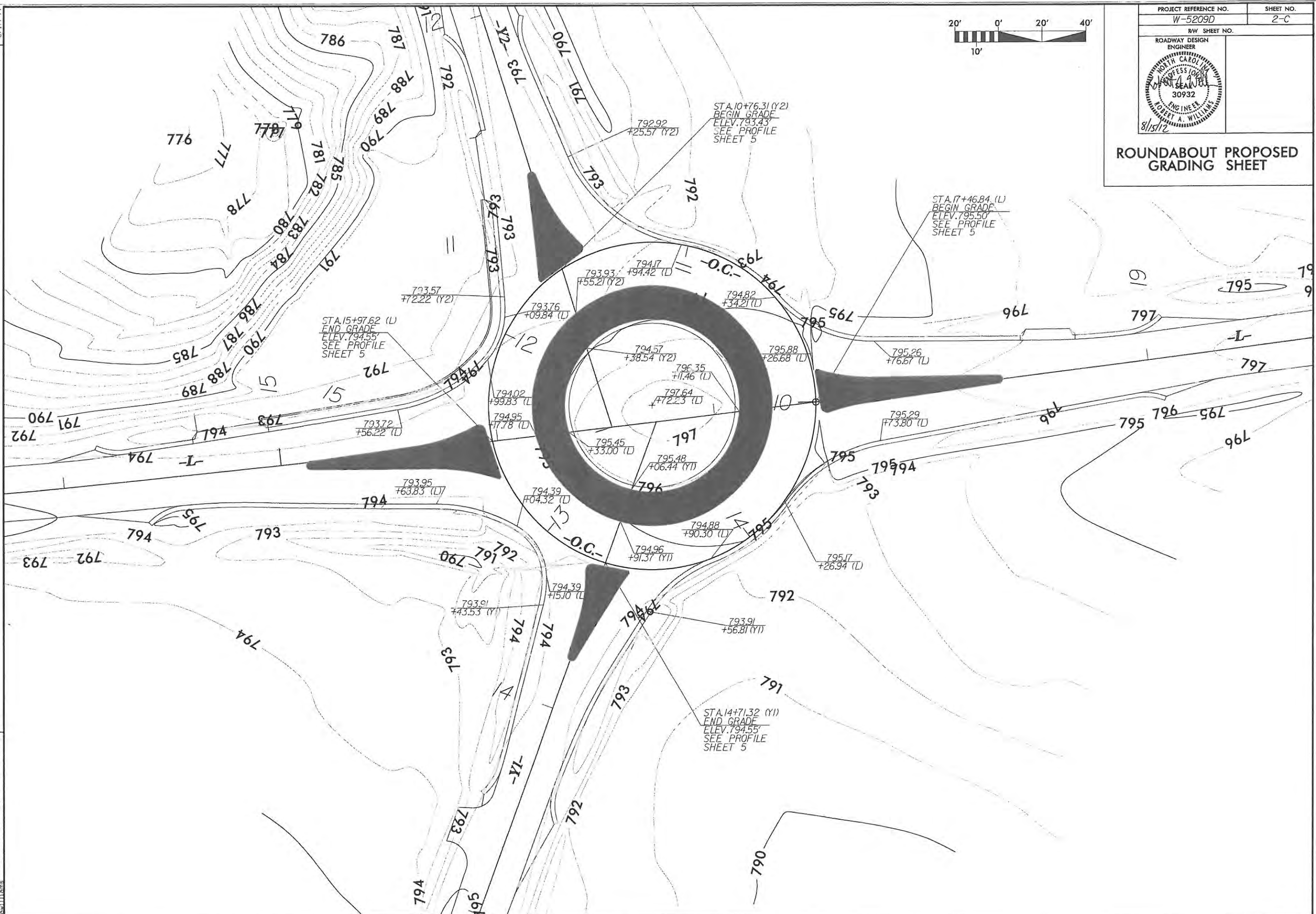
REVISIONS

U:\Roadway\Proj\171001258\_rdy.pst\_gradingsh\12c.dgn  
rawilliams



PROJECT REFERENCE NO. W-5209D	SHEET NO. 2-C
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	

### ROUNDBABOUT PROPOSED GRADING SHEET



STA. 10+76.31 (Y2)  
BEGIN GRADE  
ELEV. 793.43'  
SEE PROFILE SHEET 5

STA. 17+46.84 (L)  
BEGIN GRADE  
ELEV. 795.50'  
SEE PROFILE SHEET 5

STA. 15+97.62 (L)  
END GRADE  
ELEV. 794.55'  
SEE PROFILE SHEET 5

STA. 14+71.32 (Y1)  
END GRADE  
ELEV. 794.55'  
SEE PROFILE SHEET 5





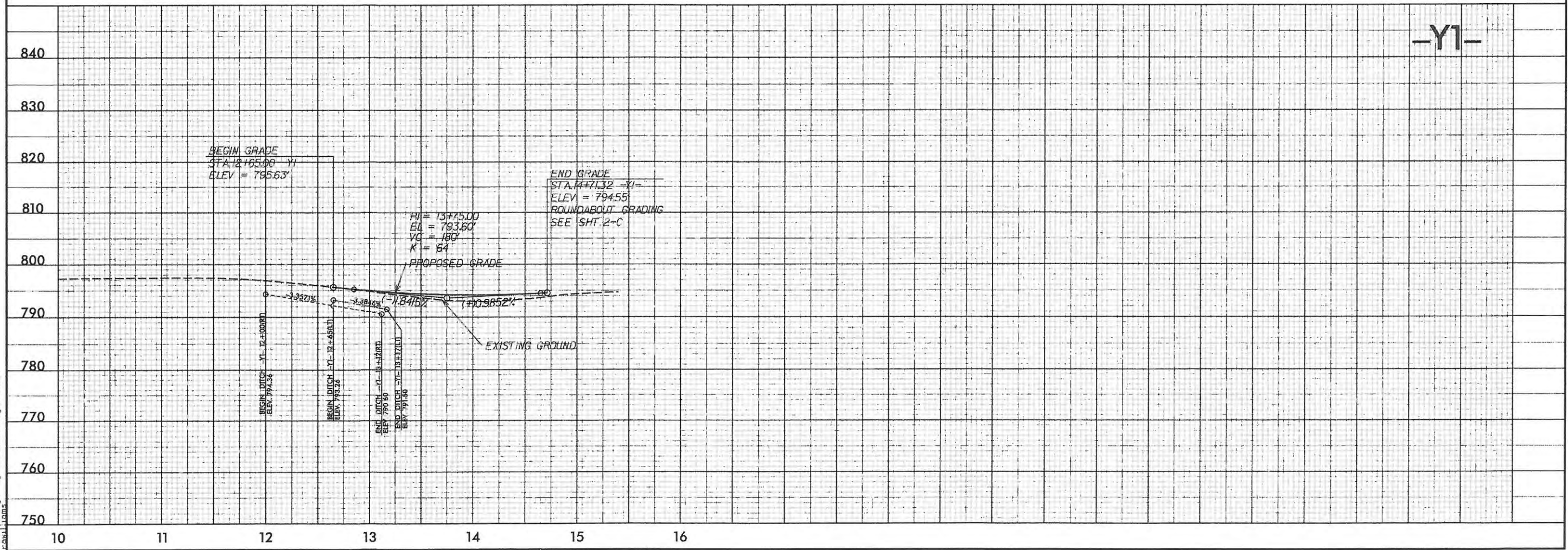
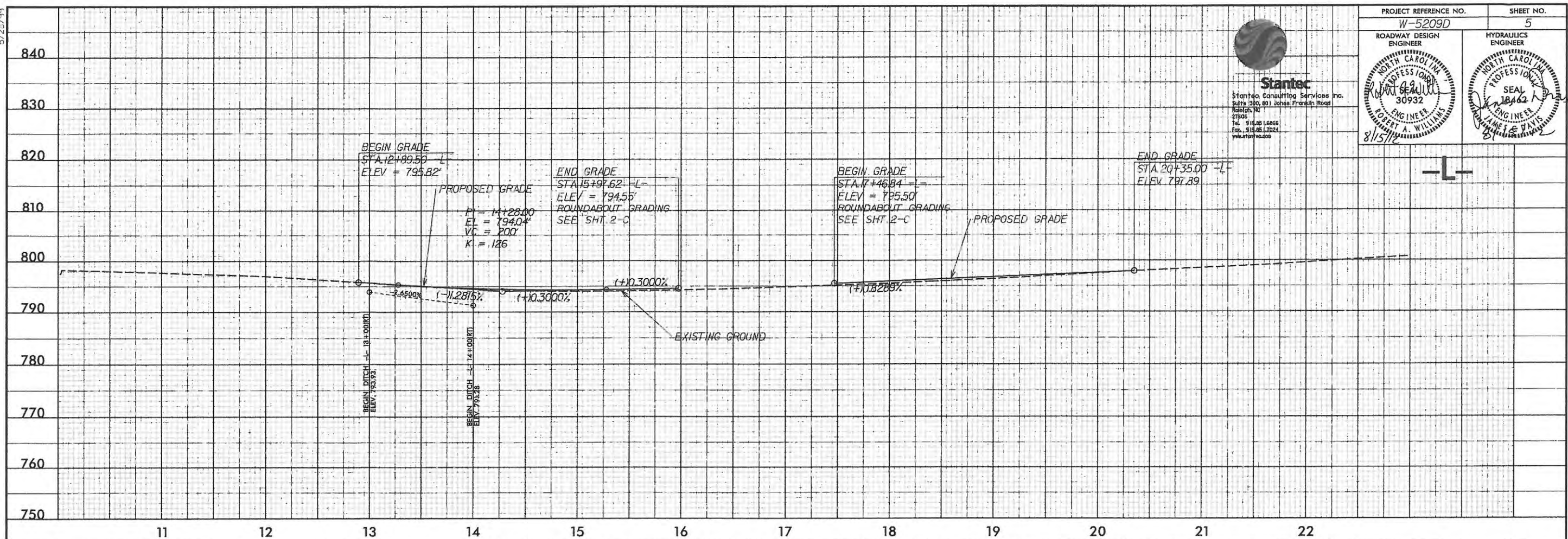




5/20/99

PROJECT REFERENCE NO. W-5209D	SHEET NO. 5
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

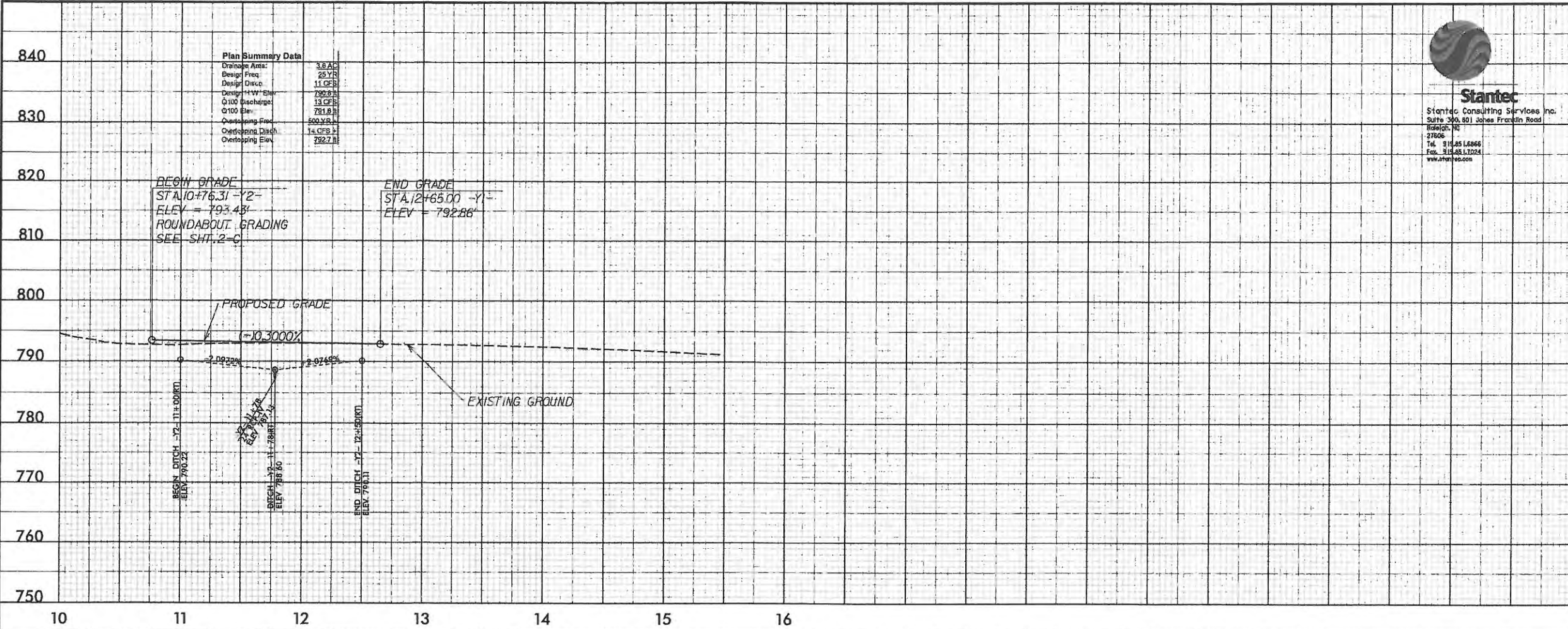
**Stantec**  
 Stantec Consulting Services Inc.  
 2415 250 801 Johna Franklin Road  
 Raleigh, NC 27605  
 Tel: 919.881.6866  
 Fax: 919.881.7024  
 www.stantec.com



8:\16\502\p\p\c\17100\138\_rdg\_LFL.dwg



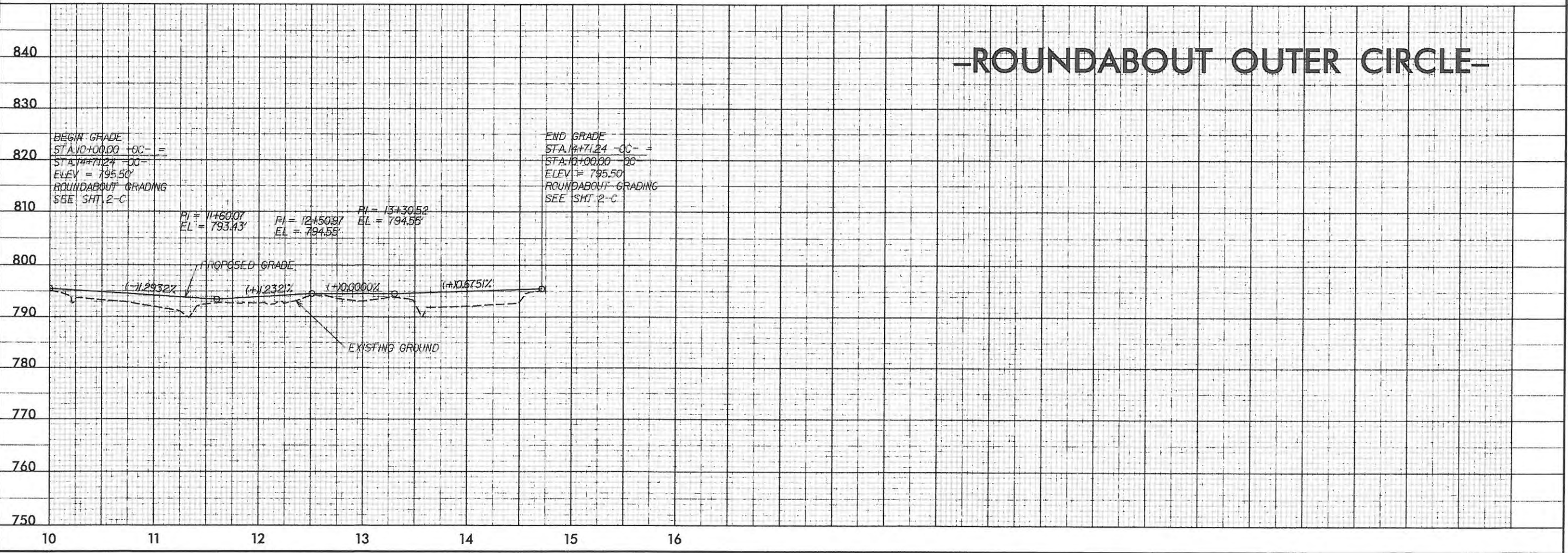
5/28/99



**Stantec**  
Stantec Consulting Services Inc.  
Suite 300, 801 Jones Franklin Road  
Raleigh, NC  
27606  
Tel. 919.485.1666  
Fax. 919.485.1724  
www.stantec.com

PROJECT REFERENCE NO.	W-5209D	SHEET NO.	6
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

-Y2-



-ROUNDABOUT OUTER CIRCLE-

8/15/2012  
C:\Roadway\Proj\171\01253\_rdy.pfl.dgn  
P. WILLIAMS



STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS

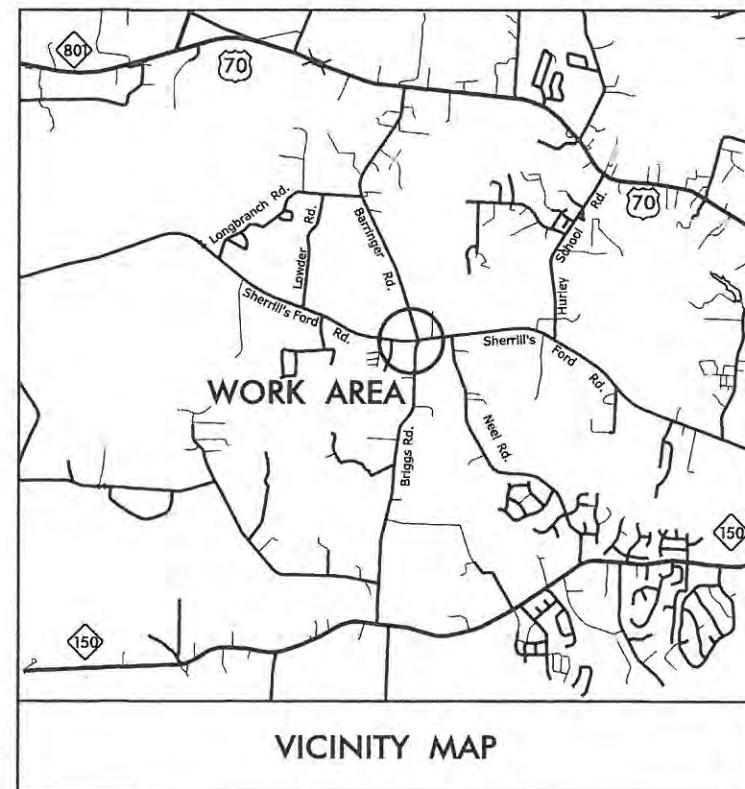
**TRANSPORTATION MANAGEMENT PLAN**

**ROWAN COUNTY**

**DIVISION 9**



**CONSTRUCTION OF ROUNDABOUT AT INTERSECTION OF  
SR 1526 (SHERRILL'S FORD RD.) AND SR 1728 (BARRINGER RD/BRIGGS RD.)**



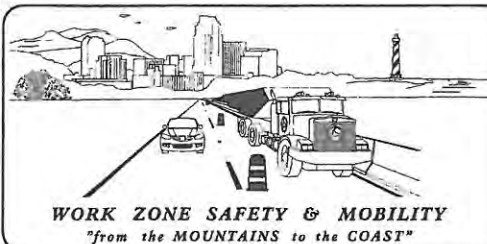
VICINITY MAP

**INDEX OF SHEETS**

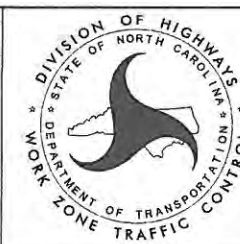
SHEET NO.	TITLE
TMP-1	TITLE SHEET AND INDEX OF SHEETS
TMP-1A	LEGEND AND LIST OF ROADWAY STANDARD DRAWINGS
TMP-2	GENERAL NOTES
TMP-3	PHASING
TMP-4	PHASE I
TMP-5	PHASE II-STEP 1 FLAGGER OPERATIONS FOR PAVING OF APPROACHES
TMP-6	PHASE II-INTERSECTION INITIAL REVISION TO ROUNDABOUT PATTERN
TMP-7	PHASE II-STEPS 2, 3, 4 NW QUADRANT WORK AREA
TMP-7A	PHASE II-STEPS 2, 3, 4 NE QUADRANT WORK AREA
TMP-7B	PHASE II-STEPS 2, 3, 4 SE QUADRANT WORK AREA
TMP-7C	PHASE II-STEPS 2, 3, 4 SW QUADRANT WORK AREA

**TRAFFIC MANAGEMENT STRATEGY**

CONSTRUCTION OF ROUNDABOUT WILL BE PERFORMED USING TIME RESTRICTED LANE CLOSURES. REFER TO SHEET TMP-3 FOR PHASING.



PLAN PREPARED FOR NCDOT DIVISION 9



PLAN PREPARED BY:  
Stantec Consulting Services Inc.  
801 Jones Franklin Road-Suite 300  
Raleigh, NC 27806

Tel: 919.851.6866  
Fax: 919.851.7024  
www.stantec.com

BETSY L. WATSON, P.E.

TRAFFIC ENGINEER

GEORGE KARAGEORGE

SR. TRANSPORTATION DESIGNER

APPROVED: *Betsy L. Watson*  
DATE: *August 15, 2012*

SEAL







































SHEET NO.

TMP-1

W-5209D

## LEGEND

-  DIRECTION OF TRAFFIC FLOW
  -  DIRECTION OF PEDESTRIAN TRAFFIC FLOW
  -  WORK AREA
  -  PAVEMENT REMOVAL
  -  NORTH ARROW
  -  EXISTING PAVEMENT
  -  PROPOSED PAVEMENT
  -  TYPE III BARRICADE
  -  CONE
  -  DRUM
  -  SKINNY DRUM
  -  TUBULAR MARKER
  -  CHANGEABLE MESSAGE SIGN (CMS)
  -  FLAGGER
  -  AUTOMATED FLAGGER ASSISTANCE DEVICE (AFAD)
  -  FLASHING ARROW BOARD (TYPE C)
  -  LAW ENFORCEMENT
  -  TRUCK MOUNTED ATTENUATOR (TMA)
  -  PORTABLE CONCRETE BARRIER (PCB)
  -  TEMPORARY CRASH CUSHION
  -  TEMPORARY SHORING
  -  WORK ZONE SIGN-PORTABLE
  -  WORK ZONE SIGN-STATIONARY
  -  WORK ZONE SIGN-STATIONARY OR PORTABLE
- SIGNALS**
-  EXISTING
  -  PROPOSED
  -  TEMPORARY
- PAVEMENT MARKINGS**
-  EXISTING PAVEMENT MARKING (GRAY)
  -  SKIP LINES
  -  MINI-SKIP LINES
  -  SOLID LINES
- PAVEMENT MARKING SYMBOLS**
-  PAVEMENT MARKING SYMBOLS
  -  EXISTING PAVEMENT MARKING SYMBOLS (HOLLOW)
  - ONLY** PAVEMENT MARKING ALPHANUMERIC CHARACTERS
- PAVEMENT MARKERS**
-  CRYSTAL/CRYSTAL
  -  CRYSTAL/RED
  -  YELLOW/YELLOW

## ROADWAY STANDARD DRAWINGS

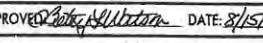
THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUMS
1135.01	CONES
1150.01	FLAGGING DEVICES
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS

8/3/2012 D:\Traffic\TrafficControl\TDP\Plan Sheet\W5209D\_TC\_TMP\_01A\_RDWYSTD\_SLECFND.dgn



Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-6866  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0572

APPROVED  DATE 8/15/12

SEAL




LEGEND  
&  
ROADWAY STANDARD DRAWINGS



## GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

CHANGES MAY BE REQUIRED WHEN PHYSICAL DIMENSIONS IN THE DETAIL DRAWINGS, STANDARD DETAILS, AND ROADWAY DETAILS ARE NOT ATTAINABLE TO MEET FIELD CONDITIONS OR RESULT IN DUPLICATE OR UNDESIRED OVERLAPPING OF DEVICES. MODIFICATION MAY INCLUDE: MOVING, SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.

### LANE CLOSURE TIME RESTRICTIONS

A) DO NOT CLOSE OR NARROW TRAVEL LANES AS FOLLOWS:

ROAD NAME	DAY AND TIME RESTRICTIONS
ALL ROADS	6:00 A.M.-9:00 A.M. MONDAY THRU FRIDAY 4:00 P.M.-7:00 P.M. MONDAY THRU FRIDAY

B) DO NOT CLOSE OR NARROW A LANE OF TRAFFIC, DETAIN AND/OR ALTER THE TRAFFIC FLOW ON OR DURING HOLIDAYS, HOLIDAY WEEKENDS, OR ANY OTHER TIME WHEN TRAFFIC IS UNUSUALLY HEAVY, INCLUDING THE FOLLOWING SCHEDULES:

ROAD NAME
ALL ROADS

### HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

- 1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.
- 2) FOR NEW YEAR'S, BETWEEN THE HOURS OF 6:00 A.M. DECEMBER 31ST TO 7:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 7:00 P.M. THE FOLLOWING TUESDAY.
- 3) FOR EASTER, BETWEEN THE HOURS OF 6:00 A.M. THURSDAY AND 7:00 P.M. MONDAY.
- 4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY TO 7:00 P.M. TUESDAY.
- 5) FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 6:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE DAY AFTER INDEPENDENCE DAY. IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY; THEN BETWEEN THE HOURS OF 6:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 7:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.
- 6) FOR LABOR DAY, BETWEEN THE HOURS OF 6:00 A.M. FRIDAY AND 7:00 P.M. TUESDAY.
- 7) FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 6:00 A.M. TUESDAY TO 7:00 P.M. MONDAY.
- 8) FOR CHRISTMAS, BETWEEN THE HOURS OF 6:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 7:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.

### LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- D) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- E) REMOVE LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING PERFORMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO LONGER NEEDED OR AS DIRECTED BY THE ENGINEER. COVER OR LAY DOWN SIGNS, AND TURN OFF ARROW BOARDS AND MESSAGE BOARDS.
- F) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER IN ACCORDANCE WITH ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

### FLAGGER OPERATIONS

- H) DURING FLAGGER OPERATIONS DO NOT STOP TRAFFIC FOR MORE THAN 5 MINUTES AT A TIME.
- I) LOCATE FLAGGER STATIONS SUCH THAT APPROACHING TRAFFIC WILL HAVE SUFFICIENT DISTANCE TO STOP AT THE INTENDED STOPPING POINT. IF NEEDED, EXTEND THE LANE CLOSURE SUCH THAT THE FLAGGER STATION IS POSITIONED BEFORE A HORIZONTAL OR CREST VERTICAL CURVE WHERE ADEQUATE STOPPING SIGHT DISTANCE TO THE FLAGGER IS PROVIDED. REFER TO ROADWAY STANDARD DRAWING 1101.11 SHEET 2.
- J) FLAGGERS SHALL NOT STAND IN THE ROADWAY.
- K) PROVIDE ILLUMINATION FOR FLAGGER STATIONS DURING NIGHT HOURS. ILLUMINATION FOR FLAGGER STATIONS WILL NOT BE PAID FOR SEPARATELY AND WILL BE CONSIDERED INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.
- L) PLACE CHANNELIZING DEVICES FOR FLAGGER OPERATION LANE CLOSURES AT A MAXIMUM SPACING OF 20 FEET IN TAPERS AND AT A MAXIMUM SPACING OF 80 FEET ALONG THE BUFFER SPACE AND WORK AREA.
- M) DRUMS OR SKINNY DRUMS MAY BE USED INSTEAD OF CONES AT NO ADDITIONAL COST.
- N) ADVISE RESIDENTS AND BUSINESSES AFFECTED BY THE LANE CLOSURE ABOUT METHODS OF SAFE INGRESS AND EGRESS FROM DRIVEWAYS DURING FLAGGING AND PILOT CAR OPERATIONS.

### PAVEMENT EDGE DROP OFF REQUIREMENTS

O) BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAVE AN EDGE OF PAVEMENT DROP-OFF AS FOLLOWS:

BACKFILL DROP-OFFS THAT EXCEED 2 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS OF 45 MPH OR GREATER.

BACKFILL DROP-OFFS THAT EXCEED 3 INCHES ON ROADWAYS WITH POSTED SPEED LIMITS LESS THAN 45 MPH.

BACKFILL WITH SUITABLE COMPACTED MATERIAL, AS APPROVED BY THE ENGINEER, AT NO EXPENSE TO THE DEPARTMENT.

### PAVEMENT MARKINGS AND MARKERS

P) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING PAINT	PAVEMENT MARKER
SHERRILLS FORD		NONE
BARRINGER RD.		
BRIGGS RD.		




Q) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.

R) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS BEFORE OPENING LANES/ROADWAY TO TRAFFIC.

### MISCELLANEOUS

- S) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.
- T) COMPLETE ANY PROPOSED WIDENING IN SUCH A MANNER THAT PONDING OF WATER WILL NOT OCCUR IN THE TRAVEL LANE.
- U) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.
- V) CHANGEABLE MESSAGE SIGN MESSAGES SHOWN ARE EXAMPLES. OTHER MESSAGES MAY BE USED AS CONDITIONS WARRANT. ALL MESSAGES AND LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INCORPORATING.

8/15/2012  
Ln:\roffice\TrafficControl\TCPlan\_Sheet\W5209D\_TC\_TMP\_C2\_GENERALNOTES.dgn  
gkorogorog

 <b>Stantec</b>	Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6886 Fax. (919) 851-7024 www.stantec.com License No. F-0672	APPROVED <i>Patsy L. Watson</i> DATE: 8/15/12 	 DIVISION OF HIGHWAYS NORTH CAROLINA DEPARTMENT OF TRANSPORTATION WORK ZONE TRAFFIC CONTROL
GENERAL NOTES			









## PHASING

PHASE I REFER TO SHEET TMP-4

PRIOR TO ANY CONSTRUCTION OPERATIONS INSTALL WORK ZONE ADVANCE WARNING SIGNS ON PROJECT PER ROADWAY STANDARD DRAWING 1101.01, SHEET 3.

CONSTRUCT DRAINAGE AND WIDENING UP TO THE EDGE & ELEVATION OF EXISTING PAVEMENT.

PHASE II

STEP 1:

PAVE ALL FOUR APPROACHES TO THE INTERSECTION UP TO THE CENTER CIRCLE PORTION. PAVE UP TO BUT NOT INCLUDING THE FINAL SURFACE COURSE. USE FLAGGING OPERATIONS AS SHOWN ON SHEET TMP-5.

PLACE INTERIM PAVEMENT MARKINGS AND DEVICES AND REVISE THE TRAFFIC PATTERN TO A ROUNDABOUT AS SHOWN ON SHEET TMP-6.

STEP 2:

CONSTRUCT THE CENTER PORTION OF THE ROUNDABOUT. CONSTRUCT BASE COURSE, CURBS, CONCRETE APRON, INTERMEDIATE AND FIRST SURFACE COURSE LAYER USING FLAGGING OPERATIONS AS SHOWN ON SHEETS TMP-7,7A,7B,7C.

WHEN LANE CLOSURES ARE NOT IN EFFECT RETURN TRAFFIC TO THE PATTERN SHOWN ON SHEET TMP-6.


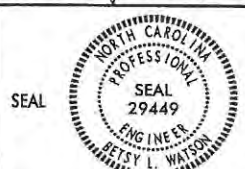

STEP 3:

CONSTRUCT CONCRETE ISLANDS USING FLAGGING OPERATIONS AS SHOWN ON SHEETS TMP-7,7A,7B,7C .

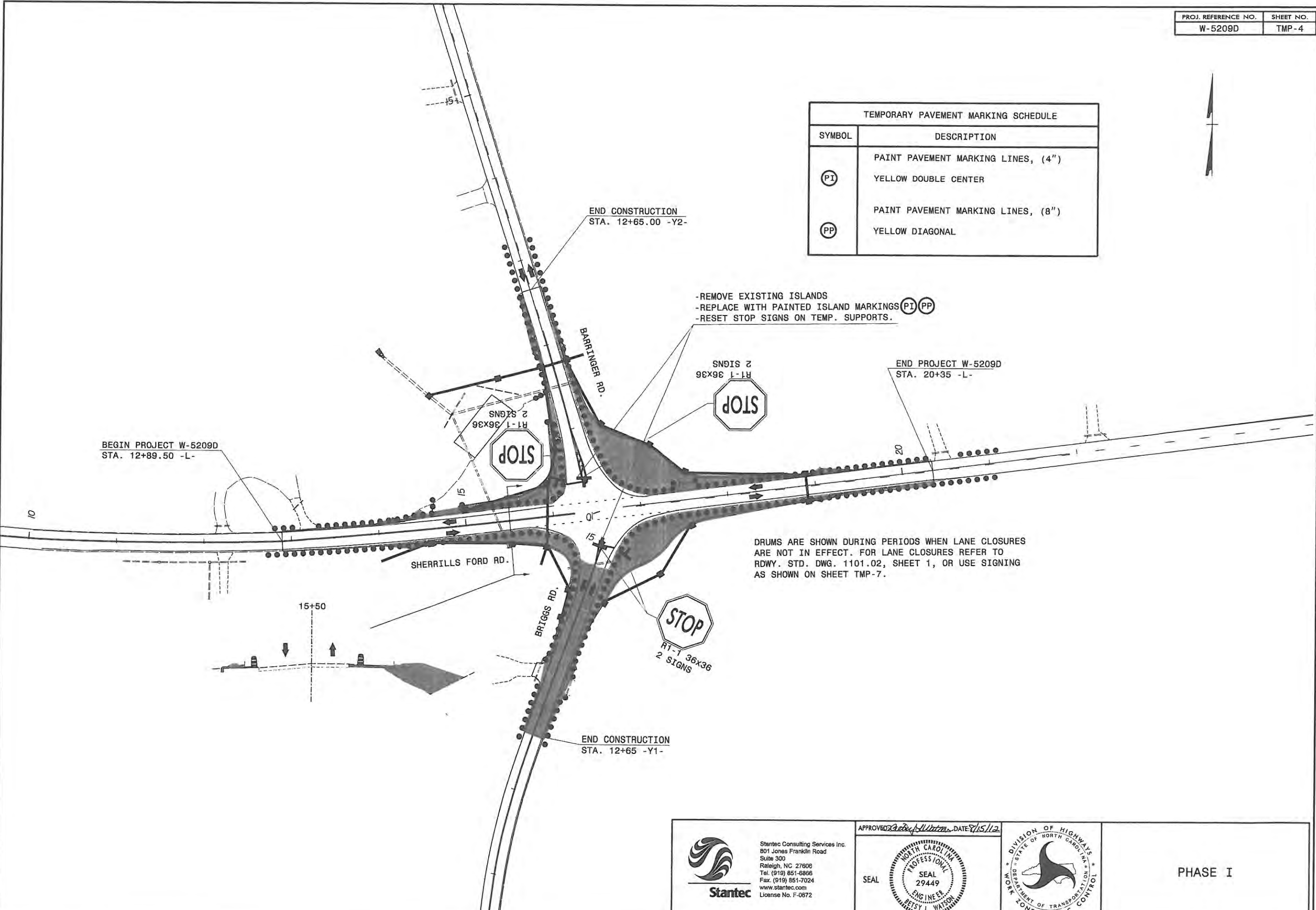
STEP 4:

PAVE THE FINAL LAYER OF SURFACE COURSE AND INSTALL FINAL PAVEMENT MARKINGS PER THE FINAL PAVEMENT MARKING PLAN USING FLAGGING OPERATIONS AS SHOWN ON SHEETS TMP-7,7A,7B,7C AND OPEN THE INTERSECTION TO THE PROPOSED TRAFFIC PATTERN.

8/15/2012 J:\TrafficControl\TDP\Fan Sheets\W5209D\_TC\_TMP\_03\_PHASING.dgn gkora.jbor:je

 <p>Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0672</p>	<p>APPROVED: <i>Betsy L. Watson</i> DATE: 8/15/12</p> 		<p>PHASING</p>
--	---	---	----------------

TEMPORARY PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
PI	PAINT PAVEMENT MARKING LINES, (4") YELLOW DOUBLE CENTER
PP	PAINT PAVEMENT MARKING LINES, (8") YELLOW DIAGONAL



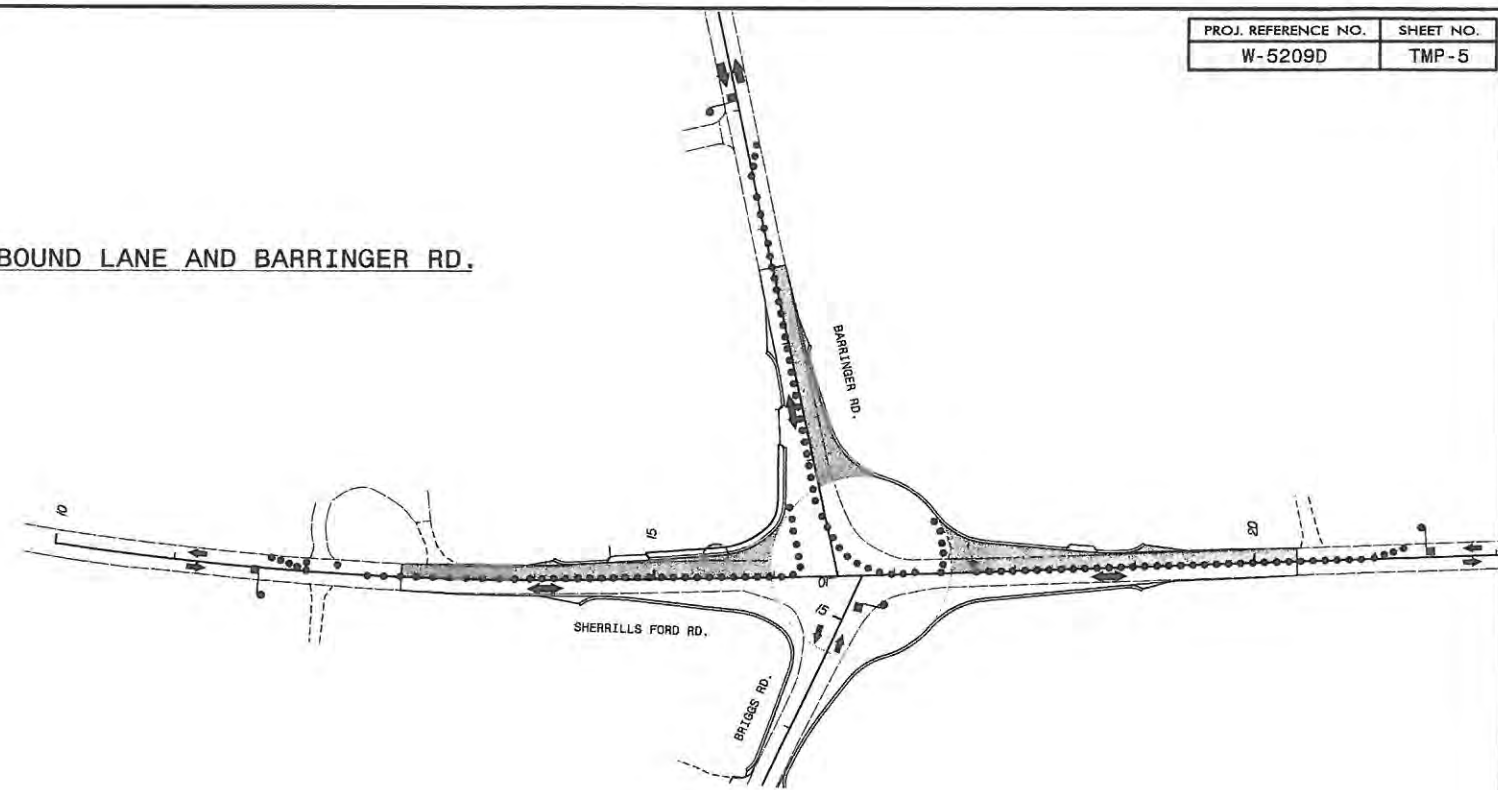
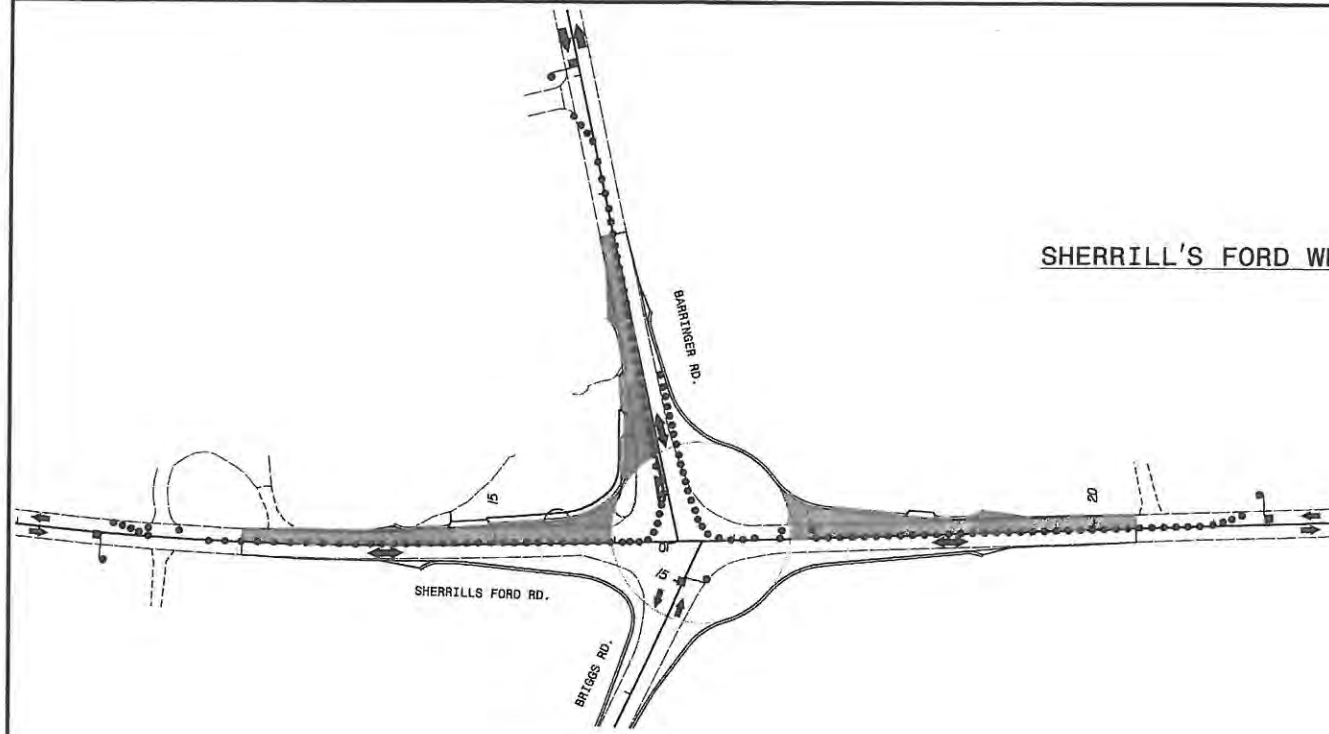
-REMOVE EXISTING ISLANDS  
 -REPLACE WITH PAINTED ISLAND MARKINGS (PI) (PP)  
 -RESET STOP SIGNS ON TEMP. SUPPORTS.

DRUMS ARE SHOWN DURING PERIODS WHEN LANE CLOSURES ARE NOT IN EFFECT. FOR LANE CLOSURES REFER TO RDWY. STD. DWG. 1101.02, SHEET 1, OR USE SIGNING AS SHOWN ON SHEET TMP-7.

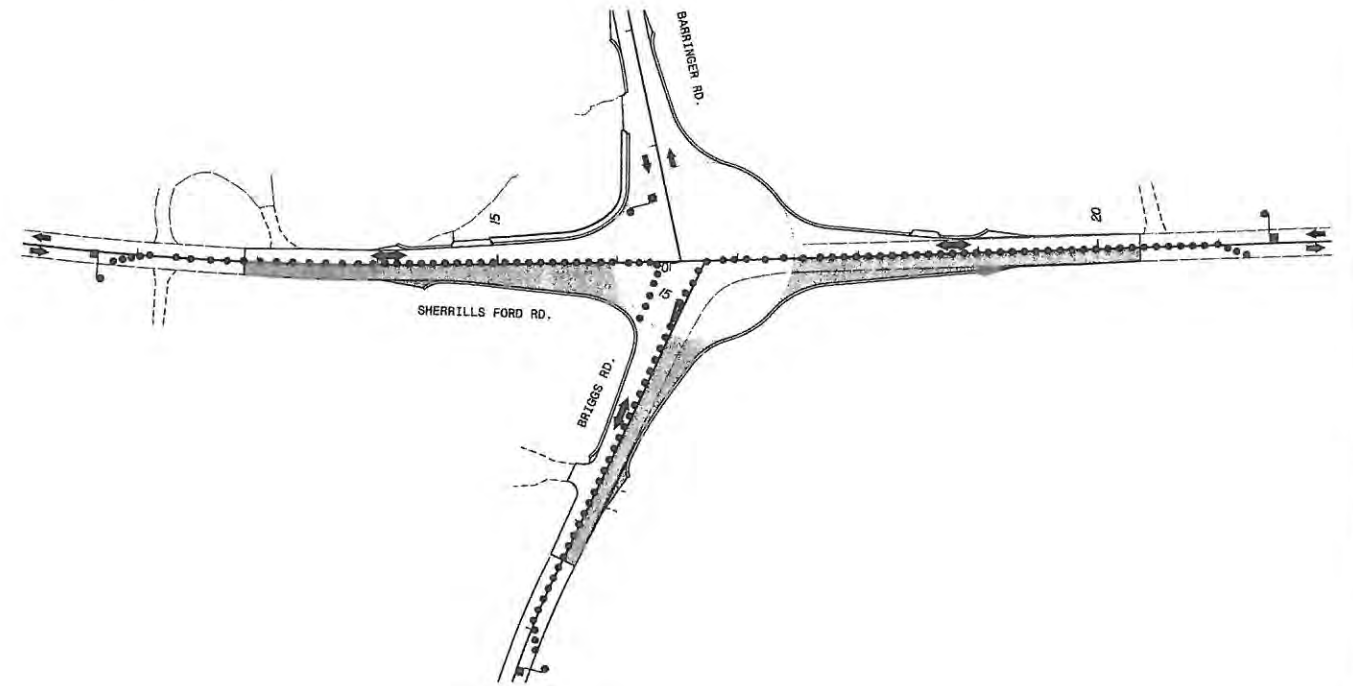
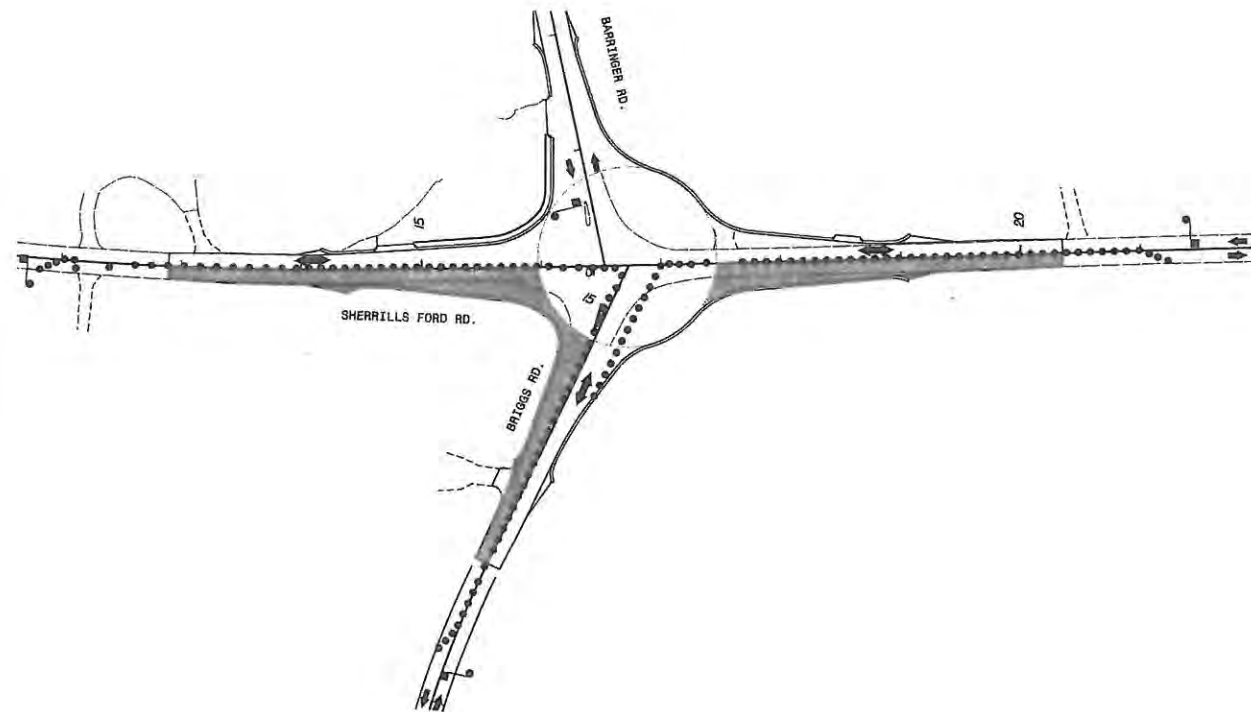
8/15/2012  
 U:\TrafficControl\TCP\ion sheets\W5209D\_TC\_TMP\_04\_PHASE\_01.dgn  
 glaragor@stantec.com

<p>Stantec Consulting Services Inc.        801 Jones Franklin Road        Suite 300        Raleigh, NC 27606        Tel. (919) 851-6866        Fax. (919) 851-7024        www.stantec.com        License No. F-0672</p>	APPROVED <i>[Signature]</i> DATE 8/15/12			PHASE I
	SEAL			

SHERRILL'S FORD WESTBOUND LANE AND BARRINGER RD.



SHERRILL'S FORD EASTBOUND LANE AND BRIGGS RD.



2/15/2012  
 L:\Traffic\TrafficControl\Plan Sheets\W5209D\_TC\_TMP\_05\_PHASE\_02\_STEP\_01.dgn  
 Gkarageorge

  
**Stantec**  
 Stantec Consulting Services Inc.  
 801 Jones Franklin Road  
 Suite 300  
 Raleigh, NC 27606  
 Tel. (919) 851-6868  
 Fax. (919) 851-7024  
 www.stantec.com  
 License No. F-0672

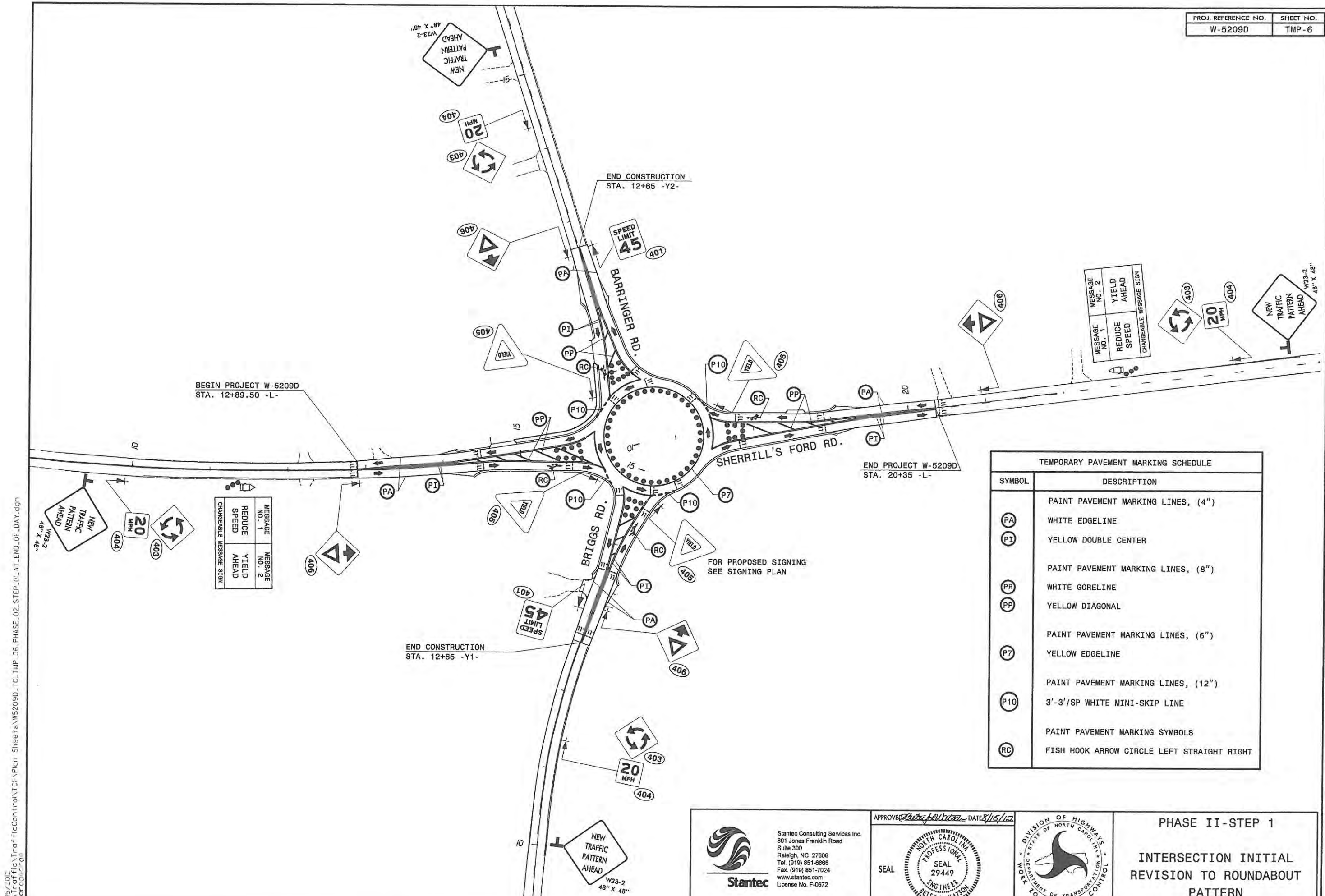
APPROVED: *[Signature]* DATE: 5/15/12

SEAL  
  
 NORTH CAROLINA  
 PROFESSIONAL  
 SEAL  
 29449  
 ENGINEER  
 PATSY L. WATSON

  
 DIVISION OF HIGHWAYS  
 NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 WORK ZONE TRAFFIC CONTROL

PHASE II-STEP 1  
 FLAGGER OPERATIONS FOR  
 PAVING OF APPROACHES





BEGIN PROJECT W-5209D  
STA. 12+89.50 -L-

END CONSTRUCTION  
STA. 12+65 -Y2-

END PROJECT W-5209D  
STA. 20+35 -L-

END CONSTRUCTION  
STA. 12+65 -Y1-

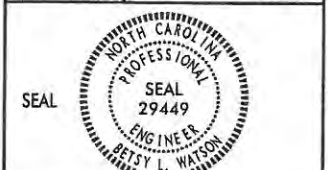
MESSAGE NO. 1	REDUCE SPEED	YIELD AHEAD
MESSAGE NO. 2	YIELD AHEAD	YIELD AHEAD

CHANGEABLE MESSAGE SIGN

TEMPORARY PAVEMENT MARKING SCHEDULE	
SYMBOL	DESCRIPTION
(PA)	PAINT PAVEMENT MARKING LINES, (4")
(PI)	WHITE EDGELINE
(PI)	YELLOW DOUBLE CENTER
(PR)	PAINT PAVEMENT MARKING LINES, (8")
(PP)	WHITE GORELINE
(PP)	YELLOW DIAGONAL
(P7)	PAINT PAVEMENT MARKING LINES, (6")
(P7)	YELLOW EDGELINE
(P10)	PAINT PAVEMENT MARKING LINES, (12")
(P10)	3'-3'/SP WHITE MINI-SKIP LINE
(RC)	PAINT PAVEMENT MARKING SYMBOLS
(RC)	FISH HOOK ARROW CIRCLE LEFT STRAIGHT RIGHT

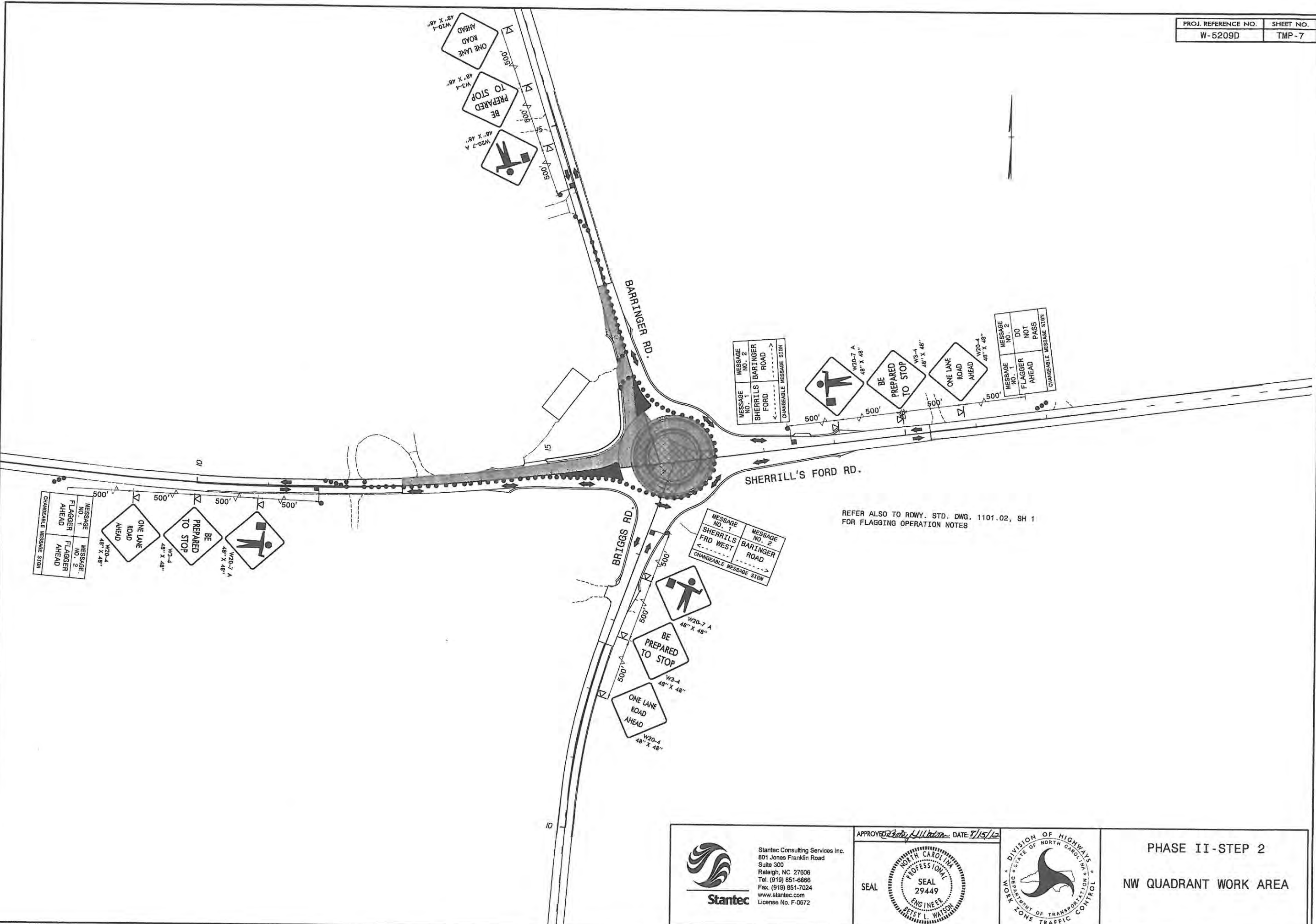
**Stantec**  
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-6866  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0572

APPROVED: *[Signature]* DATE: 8/15/12






PHASE II-STEP 1  
INTERSECTION INITIAL  
REVISION TO ROUNDABOUT  
PATTERN

B:\157-01C\TrafficControl\TCI\Plan Sheets\W5209D\_TC\_TMP\_06\_PHASE\_02\_STEP\_01\_AT\_END\_OF\_DAY.dgn

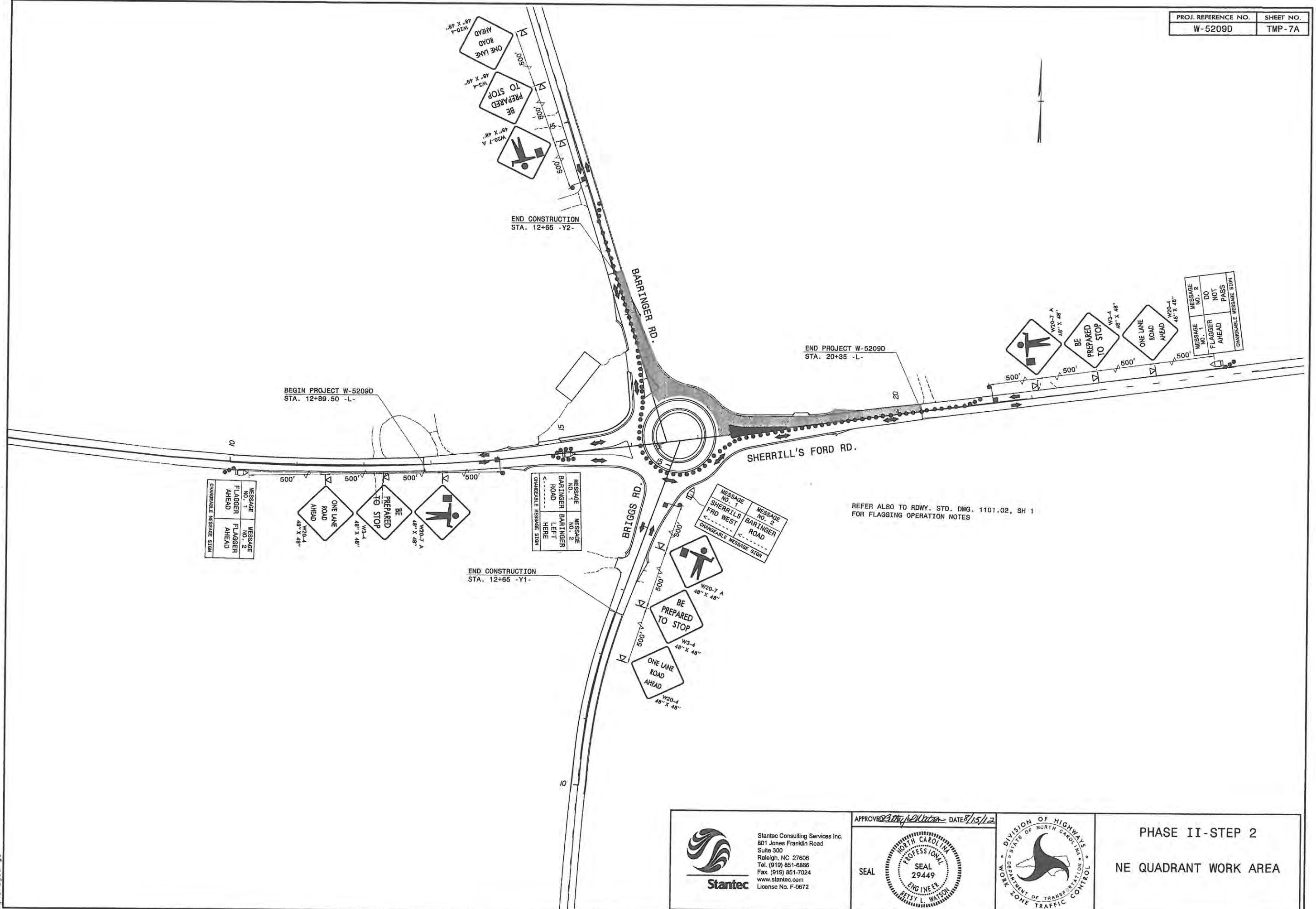


REFER ALSO TO RDWY. STD. DWG. 1101.02, SH 1 FOR FLAGGING OPERATION NOTES




I:\Projects\TrafficControl\Plan Sheets\W5209D\_1C\_TMP\_07\_PHASE\_02\_STEP\_02\_NW\_QUADRANT\_WORK\_AREA.dgn  
 8/15/12  
 B. G. GORGE

 <p>Stantec Consulting Services Inc.        801 Jones Franklin Road        Suite 300        Raleigh, NC 27606        Tel. (919) 851-6866        Fax. (919) 851-7024        www.stantec.com        License No. F-0672</p>	<p>APPROVED <i>Betsy L. Watson</i> DATE: 8/15/12</p> 		<p>PHASE II-STEP 2        NW QUADRANT WORK AREA</p>
---	--	---	---





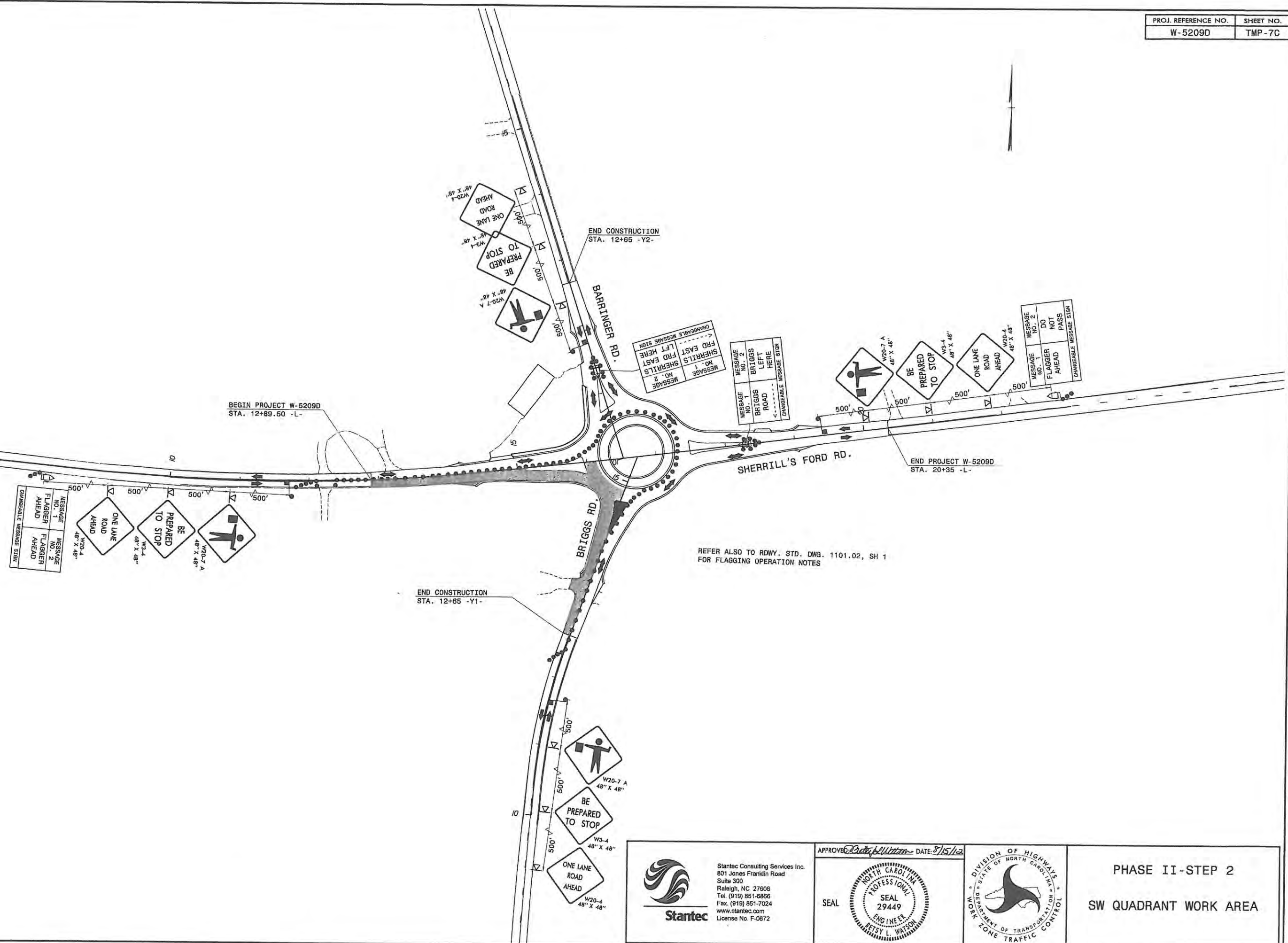
3/15/2012  
 U:\TrafficControl\TCP\Plan Sheets\W5209D\_TC\_TMP\_07A\_PHASE\_02\_STEP\_C2\_NE\_QUAD\_WORK\_AREA.dwg  
 gkaragocrg

 <p>Stantec Consulting Services Inc.        801 Jones Franklin Road        Suite 300        Raleigh, NC 27606        Tel. (919) 851-8866        Fax. (919) 851-7024        www.stantec.com        License No. F-0672</p>	<p>APPROVED: <i>Betsy L. Watson</i> DATE: 8/15/12</p> 		<p>PHASE II-STEP 2        NE QUADRANT WORK AREA</p>
---	---	---	---






<p>Stantec Consulting Services Inc.        801 Jones Franklin Road        Suite 300        Raleigh, NC 27606        Tel. (919) 851-8886        Fax. (919) 851-7024        www.stantec.com        License No. F-0672</p>	APPROVED: <i>Ruth Whitton</i> DATE: 8/15/12			PHASE II-STEP 2 SE QUADRANT WORK AREA
	SEAL			





REFER ALSO TO RDWY. STD. DWG. 1101.02, SH 1 FOR FLAGGING OPERATION NOTES

8/15/2012  
 U:\TrafficControl\TCP\Plan Sheets\W5209D\_TC\_TMP\_07C\_PHASE\_02\_STEP\_02\_SW\_QUAD\_WORK\_AREA.dgn  
 gkorogor

 <p>Stantec Consulting Services Inc.        801 Jones Franklin Road        Suite 300        Raleigh, NC 27606        Tel. (919) 851-6866        Fax. (919) 851-7024        www.stantec.com        License No. F-0672</p>	<p>APPROVED <i>Betsy L. Watson</i> DATE: 8/15/12</p> 		<p>PHASE II-STEP 2        SW QUADRANT WORK AREA</p>
---	--	---	---

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

TIP NO. W-5209D	SHEET NO. PMP-1
APPROVED: <i>Betsy L. Watson</i>	
DATE: 8/15/12	
SEAL	

PAVEMENT MARKING PLAN  
ROWAN COUNTY

LOCATION: SR 1526 (SHERRILLS FORD ROAD) AT  
SR 1728 (BRIGGS/BARRINGER ROAD) NEAR SALISBURY

T.I.P.: W-5209D

ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LANE ROADWAYS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSAGES
1205.09	PAVEMENT MARKINGS - PAINTED ISLANDS
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPACING
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TEMPORARY

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE CONSTRUCTION PROJECT, EXCEPT WHEN OTHERWISE NOTED IN THE PLAN, OR DIRECTED BY THE ENGINEER.

- A) INSTALL PAVEMENT MARKINGS AND PAVEMENT MARKERS ON THE FINAL SURFACE AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	THERMOPLASTIC	PERMANENT RAISED
- B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.
- D) PASSING ZONES WILL BE DETERMINED IN THE FIELD AND MUST BE APPROVED BY THE ENGINEER.
- E) ON ASPHALT SURFACES, USE HEATED-IN-PLACE THERMOPLASTIC OR EXTRUDED THERMOPLASTIC FOR STOP BARS, SYMBOLS, CHARACTERS AND DIAGONALS.

FINAL PAVEMENT MARKING SCHEDULE

SYMBOL	DESCRIPTION	PAY ITEM
T10	3 FT - 3 FT/SP WHITE MINISKIP	(12", 120 MIL) THERMOPLASTIC
TA	WHITE EDGELINE	(4", 90 MIL) THERMOPLASTIC
TB	YELLOW EDGELINE	(4", 90 MIL) THERMOPLASTIC
TI	YELLOW DOUBLE CENTER	(4", 90 MIL) THERMOPLASTIC
TN	WHITE GORELINE	(8", 90 MIL) THERMOPLASTIC
TV	YELLOW DIAGONAL	(12", 90 MIL) THERMOPLASTIC
UI	ALPHANUMERIC CHAR	(120 MIL) THERMOPLASTIC
UN	24" YIELD LINE TRIANGLE	(90 MIL) THERMOPLASTIC
WC	FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW	(90 MIL) THERMOPLASTIC

PLAN PREPARED BY:

BETSY L. WATSON, P.E. TRAFFIC ENGINEER

ROSI R. HENNEIN TRANSPORTATION TECHNICIAN



Stantec

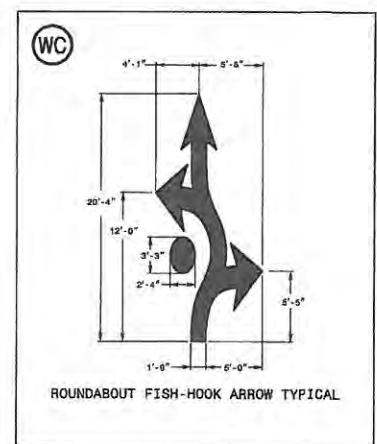
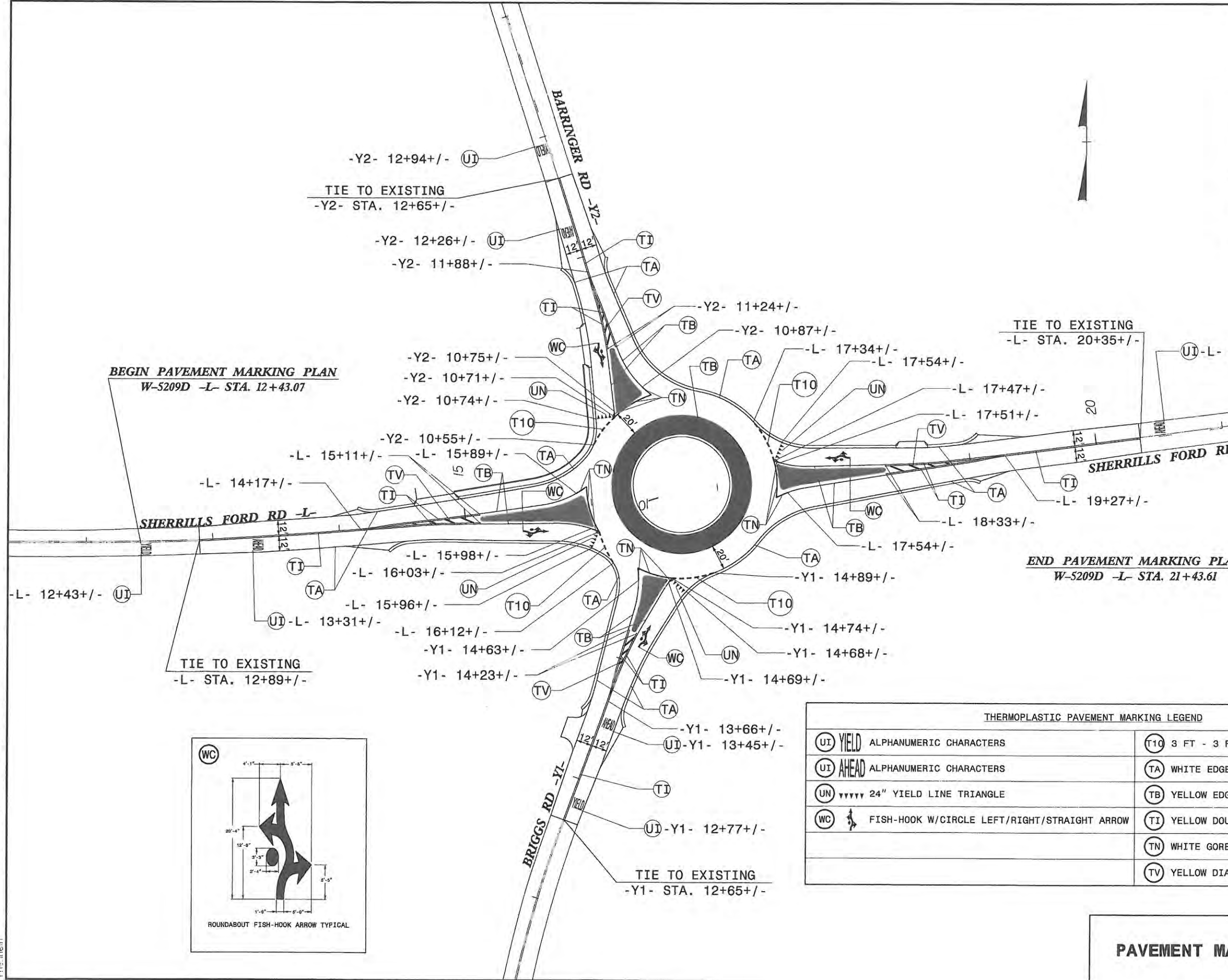
Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27608  
Tel. (919) 951-6886  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0672

INDEX

SHEET NO.	DESCRIPTION
PMP-1	PAVEMENT MARKING PLAN TITLE AND SCHEDULE SHEET
PMP-2	PAVEMENT MARKING DETAIL



TIP NO. W-5209D	SHEET NO. PMP-2
APPROVED: <i>Betsy L. Watson</i>	
DATE: 8/15/12	
SEAL	
Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6866 Fax. (919) 851-7024 www.stantec.com License No. F-0372	

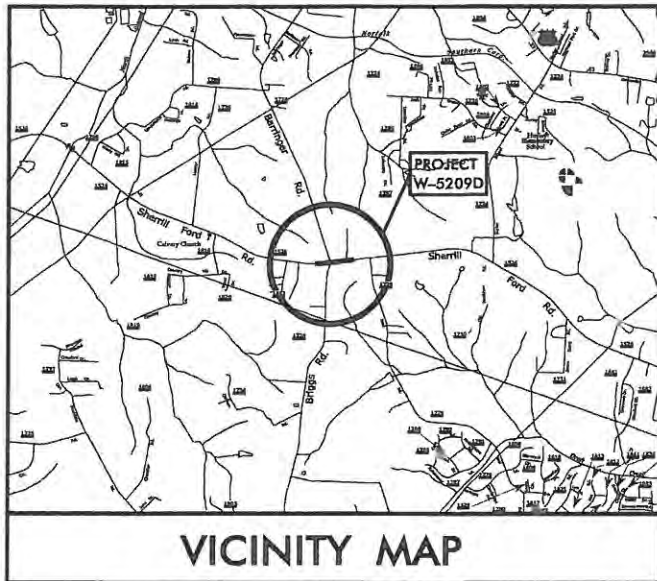


THERMOPLASTIC PAVEMENT MARKING LEGEND			
(UI) YIELD	ALPHANUMERIC CHARACTERS	(T10)	3 FT - 3 FT/SP WHITE MINISKIP (12")
(UI) AHEAD	ALPHANUMERIC CHARACTERS	(TA)	WHITE EDGELINE (4")
(UN)	24" YIELD LINE TRIANGLE	(TB)	YELLOW EDGELINE (4")
(WC)	FISH-HOOK W/CIRCLE LEFT/RIGHT/STRAIGHT ARROW	(TI)	YELLOW DOUBLE CENTER (4")
		(TN)	WHITE GORELINE (8")
		(TV)	YELLOW DIAGONAL (12")

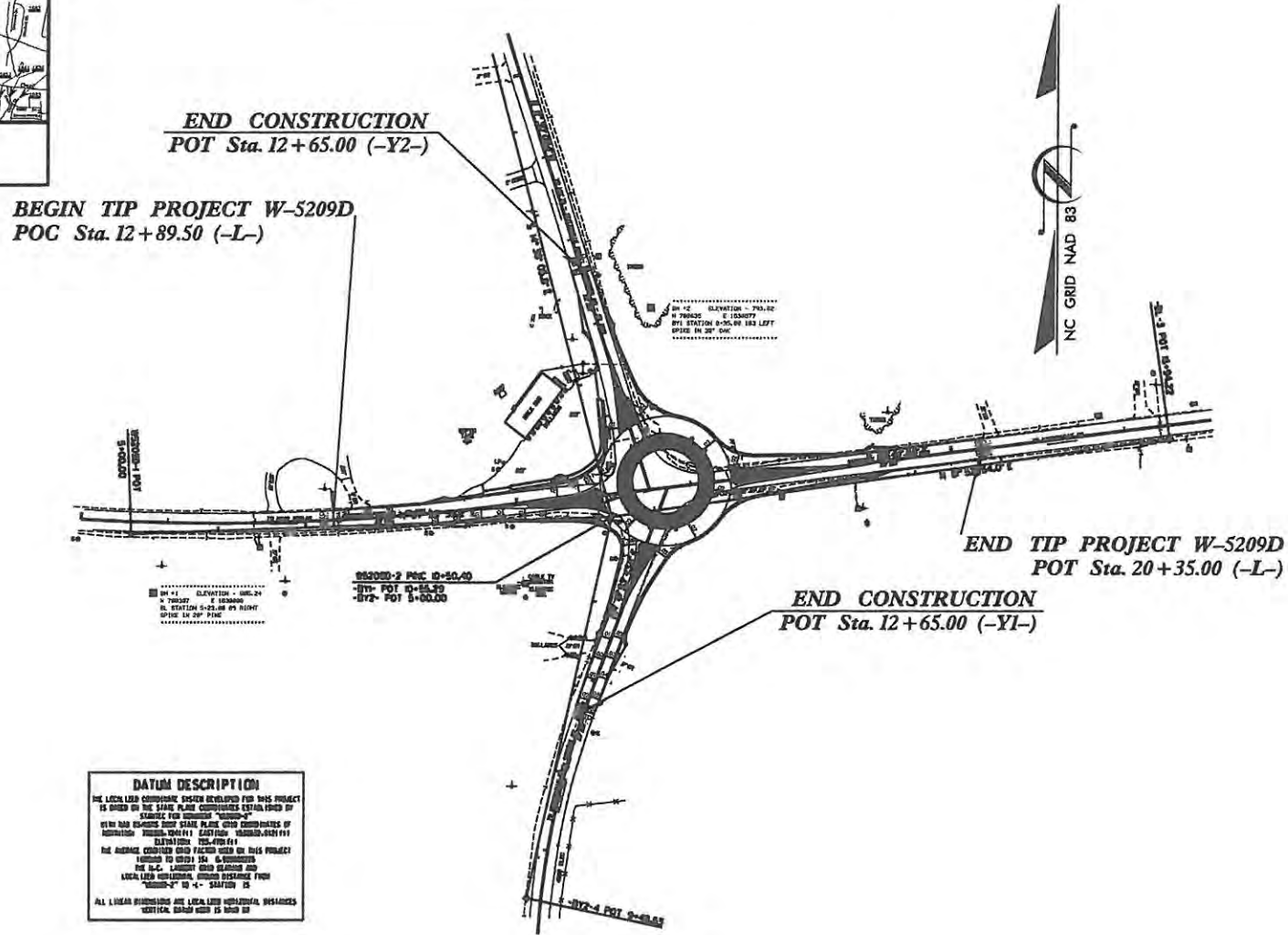
**PAVEMENT MARKING DETAIL**

8/15/2012  
 Us:\Traffic\Signing\Favement Marking Plan\Plan Sheets\17000258.pmp..00.dgn  
 fheanein

**TIP PROJECT: W-5209D**



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



**DATUM DESCRIPTION**  
THE LOCAL GRID COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY THE STATE OF NORTH CAROLINA. THE STATE PLANE COORDINATE SYSTEM IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY THE STATE OF NORTH CAROLINA. THE STATE PLANE COORDINATE SYSTEM IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY THE STATE OF NORTH CAROLINA. THE STATE PLANE COORDINATE SYSTEM IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY THE STATE OF NORTH CAROLINA.

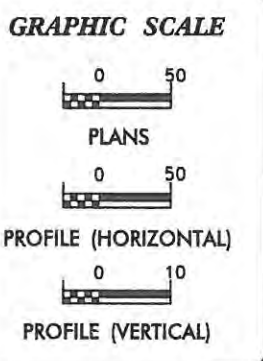
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	W-5209D	EC-1	
STATE FUND NO.	F.A. PROJ. NO.	DESCRIPTION	

**EROSION AND SEDIMENT CONTROL MEASURES**

Sta. #	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.

James C. Davis, PE  
LEVEL IIIA NAME  
  
633  
LEVEL IIIA CERTIFICATION NO.



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-010000 GENERAL CONSTRUCTION PERMIT EFFECTIVE AUGUST 3, 2011  
ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND  
NATURAL RESOURCES DIVISION OF WATER QUALITY.

ROADSIDE ENVIRONMENTAL UNIT  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
RALEIGH, N.C.  
  
2012 STANDARD SPECIFICATIONS

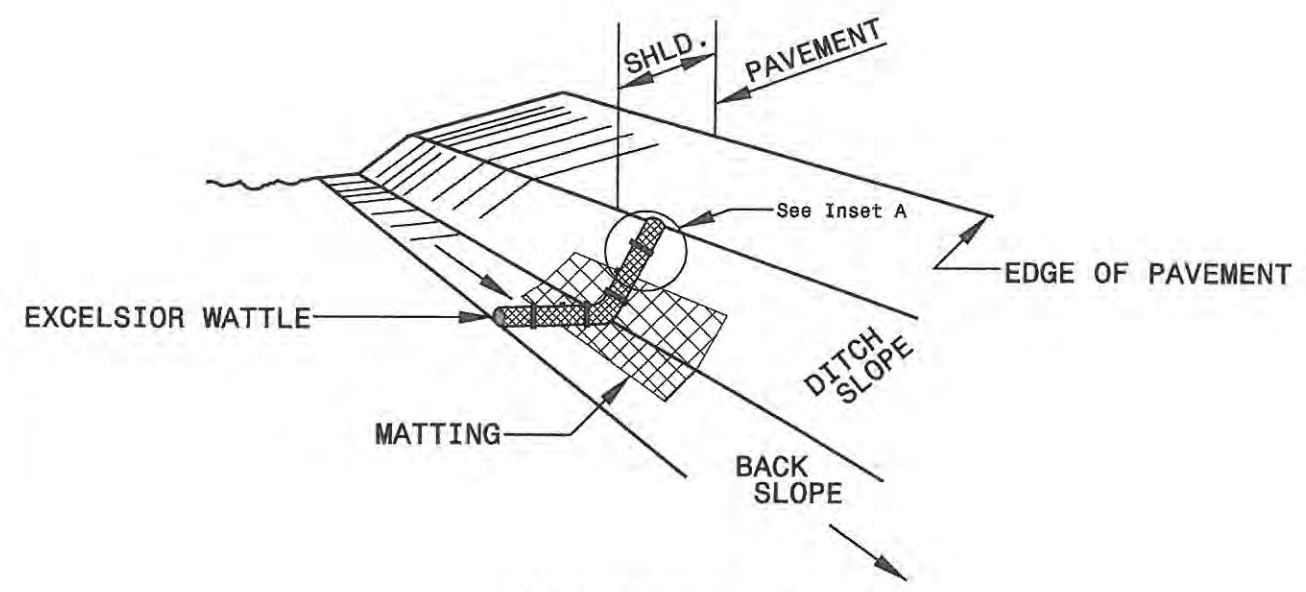
**2012 STANDARD DRAWINGS**

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 Riser 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 Baffle
1630.06 Special Stilling Basin	1645.01 Temporary Stream Crossing
1631.01 Matting Installation	

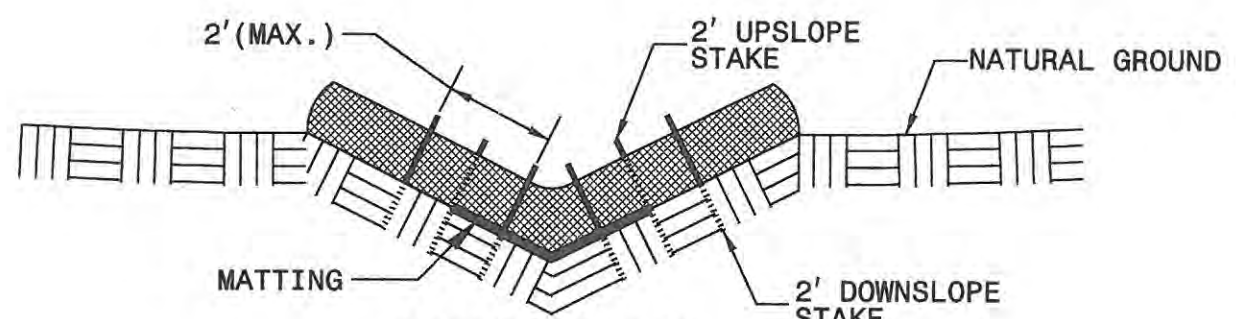


PROJECT REFERENCE NO. W-5209D	SHEET NO. EC 2
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

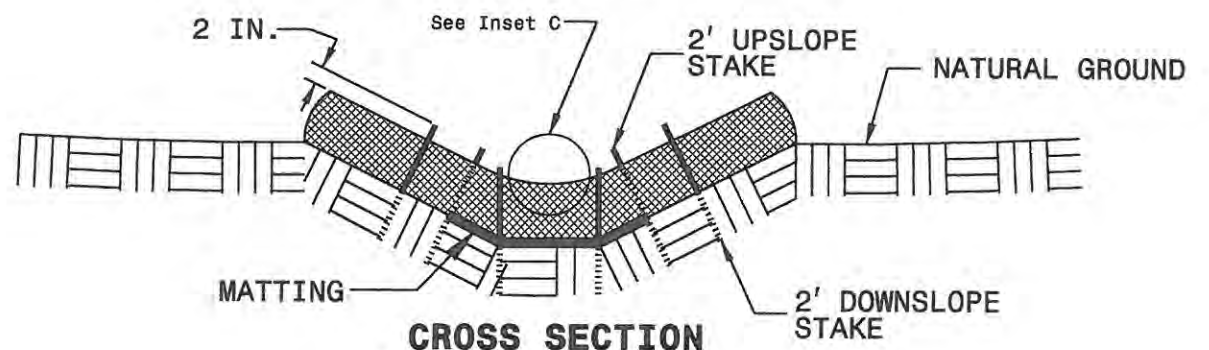
# WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



**ISOMETRIC VIEW**



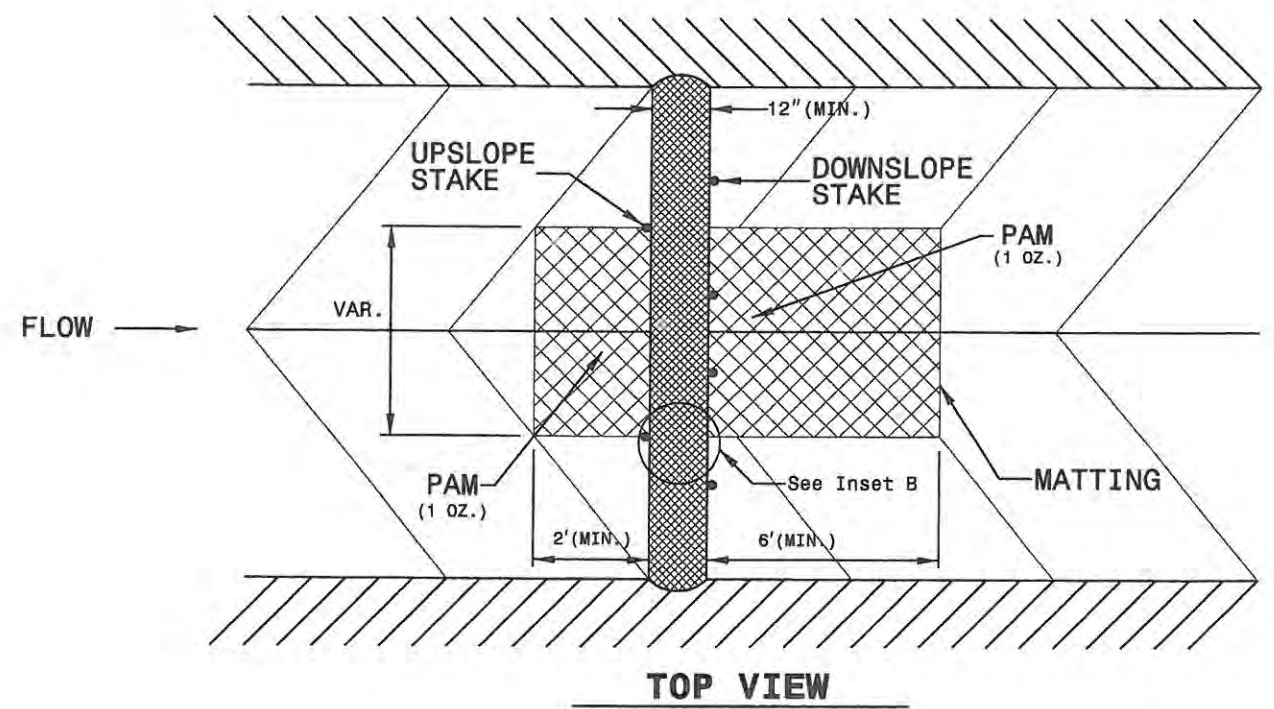
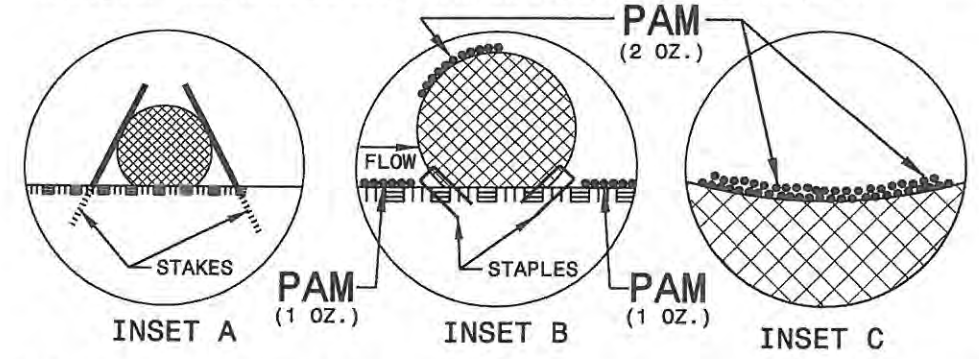
**CROSS SECTION VEE DITCH**



**CROSS SECTION TRAPEZOIDAL DITCH**

**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.



**TOP VIEW**





DIVISION OF HIGHWAYS  
STATE OF NORTH CAROLINA

PROJECT REFERENCE NO. <i>W-5209D</i>	SHEET NO. <i>EC 3B</i>
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

## *SOIL STABILIZATION TIMEFRAMES*

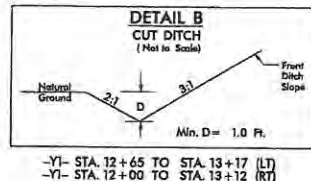
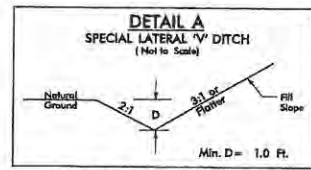
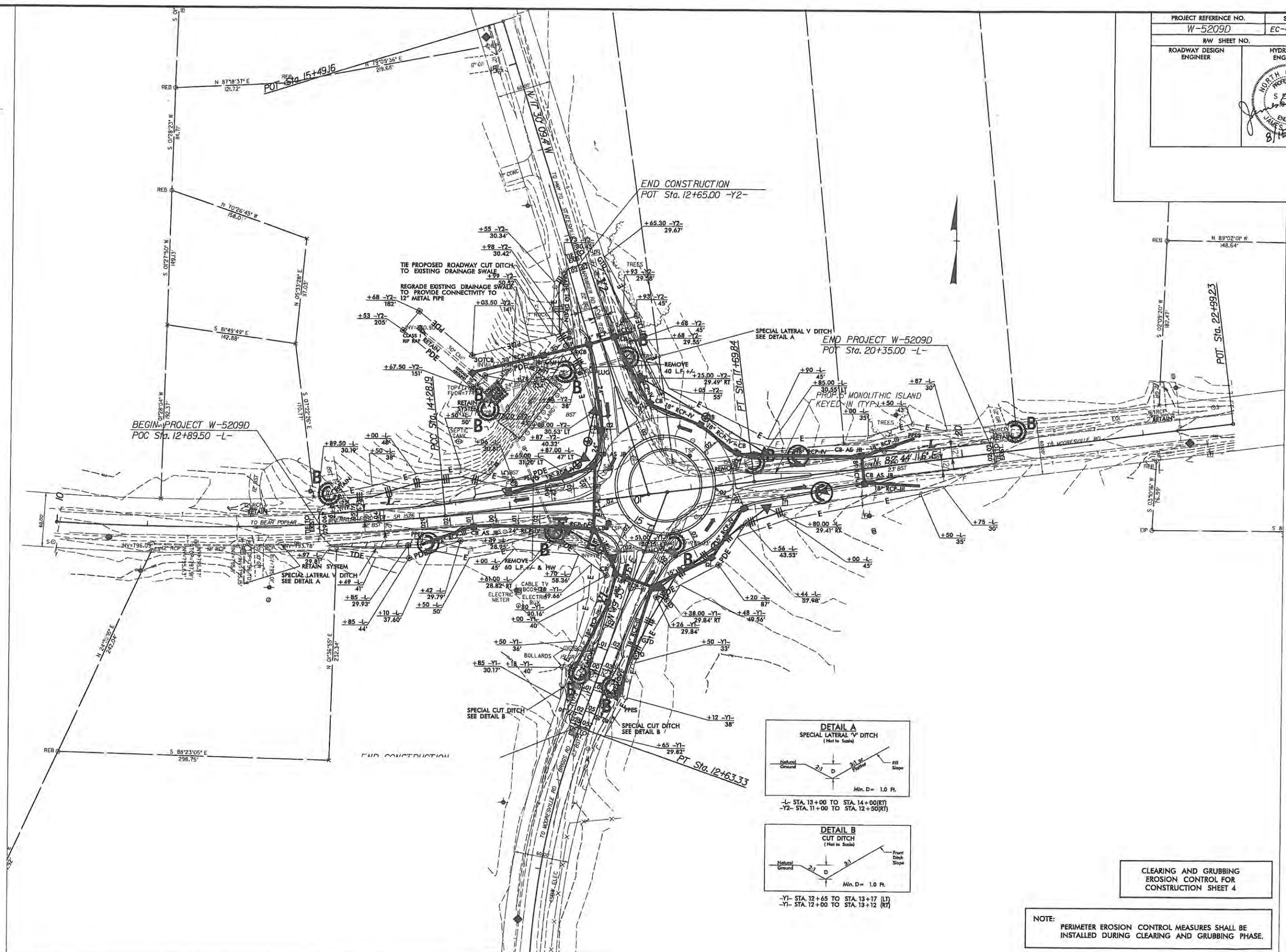
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50' IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	14 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

8/17/99

PROJECT REFERENCE NO. W-5209D	SHEET NO. EC-4 /CONST. 4
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

\*\*\*\*\*  
 SYSTEMS  
 \*\*\*\*\*



CLEARING AND GRUBBING  
EROSION CONTROL FOR  
CONSTRUCTION SHEET 4

NOTE:  
PERIMETER EROSION CONTROL MEASURES SHALL BE  
INSTALLED DURING CLEARING AND GRUBBING PHASE.





STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION

PROJECT NO. W-5209D	SHEET NO. SIGN-1
APPROVED: <i>Betsy L. Watson</i>	
DATE: August 15, 2012	
SEAL	
	

**SIGNING PLAN**  
**ROWAN COUNTY**

LOCATION: SR 1526 (SHERRILLS FORD ROAD) AT  
SR 1728 (BRIGGS/BARRINGER ROAD) NEAR SALISBURY

T.I.P.: W-5209D

**ROADWAY STANDARD DRAWINGS**

THE FOLLOWING ROADWAY STANDARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" - PROJECT SERVICES UNIT - N.C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., DATED JANUARY 2012 ARE APPLICABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE CONSIDERED A PART OF THESE PLANS:

STD. NO.	TITLE
904.10	ORIENTATION OF GROUND MOUNTED SIGNS
904.50	MOUNTING OF TYPE 'D', 'E' AND 'F' SIGNS ON 'U' CHANNEL POSTS

**GENERAL NOTES**

- SIGNS FURNISHED BY STATE
- IF REMOVAL OR RELOCATION OF SIGNS ON PRIVATE STREET (NON-STATE MAINTAINED) IS REQUIRED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL INFORM THE ENGINEER. THE WORK WILL BE COMPLETED BY OTHERS.
- SIGNING PLANS DO NOT INCLUDE TEMPORARY CONSTRUCTION SIGNING. SEE TRAFFIC CONTROL PLANS.
- WHEN NOT STATIONED OR DIMENSIONED ON PLANS, ALL 'E' AND 'F' SIGNS SHALL BE FIELD LOCATED BY THE ENGINEER
- ALL EXISTING SIGNS ON "U" CHANNEL POSTS WITHIN THE PROJECT LIMITS SHALL BE REMOVED AND DISPOSED OF UNLESS OTHERWISE NOTED ON PLANS.
- WHEN EXISTING SIGNS ARE REMOVED AND INSTALLED ON NEW SUPPORTS, THE RE-ERECTION SHALL IMMEDIATELY FOLLOW THE REMOVAL.
- THE BACKGROUND FOR TYPE E & F SIGNS SHALL BE TYPE C REFLECTIVE SHEETING.
- SEE ROADWAY PLANS FOR GUARD/GUIDE RAIL DETAILS.

**SUMMARY OF QUANTITIES**

ITEM NO.		ITEM DESCRIPTION	QUANTITY	UNIT
DESC. NO.	SECT. NO.			
4072000000	903	SUPPORTS, 3 LB STEEL U-CHANNEL.....	300	L.F.
4102000000	904	SIGN ERECTION, TYPE E.....	32	EA.
4116100000	904	SIGN ERECTION, RELOCATE SIGN TYPE E.....	3	EA.
4155000000	907	DISPOSAL OF SIGN SYSTEM, U-CHANNEL.....	14	EA.
4192000000	907	DISPOSAL OF SUPPORT, U-CHANNEL.....	3	EA.

**PLAN PREPARED BY:**

**BETSY L. WATSON, P.E.** TRAFFIC ENGINEER  
**ROSI R. HENNEIN** TRANSPORTATION TECHNICIAN



Stantec Consulting Services Inc.  
801 Jones Franklin Road  
Suite 300  
Raleigh, NC 27606  
Tel. (919) 851-6866  
Fax. (919) 851-7024  
www.stantec.com  
License No. F-0672

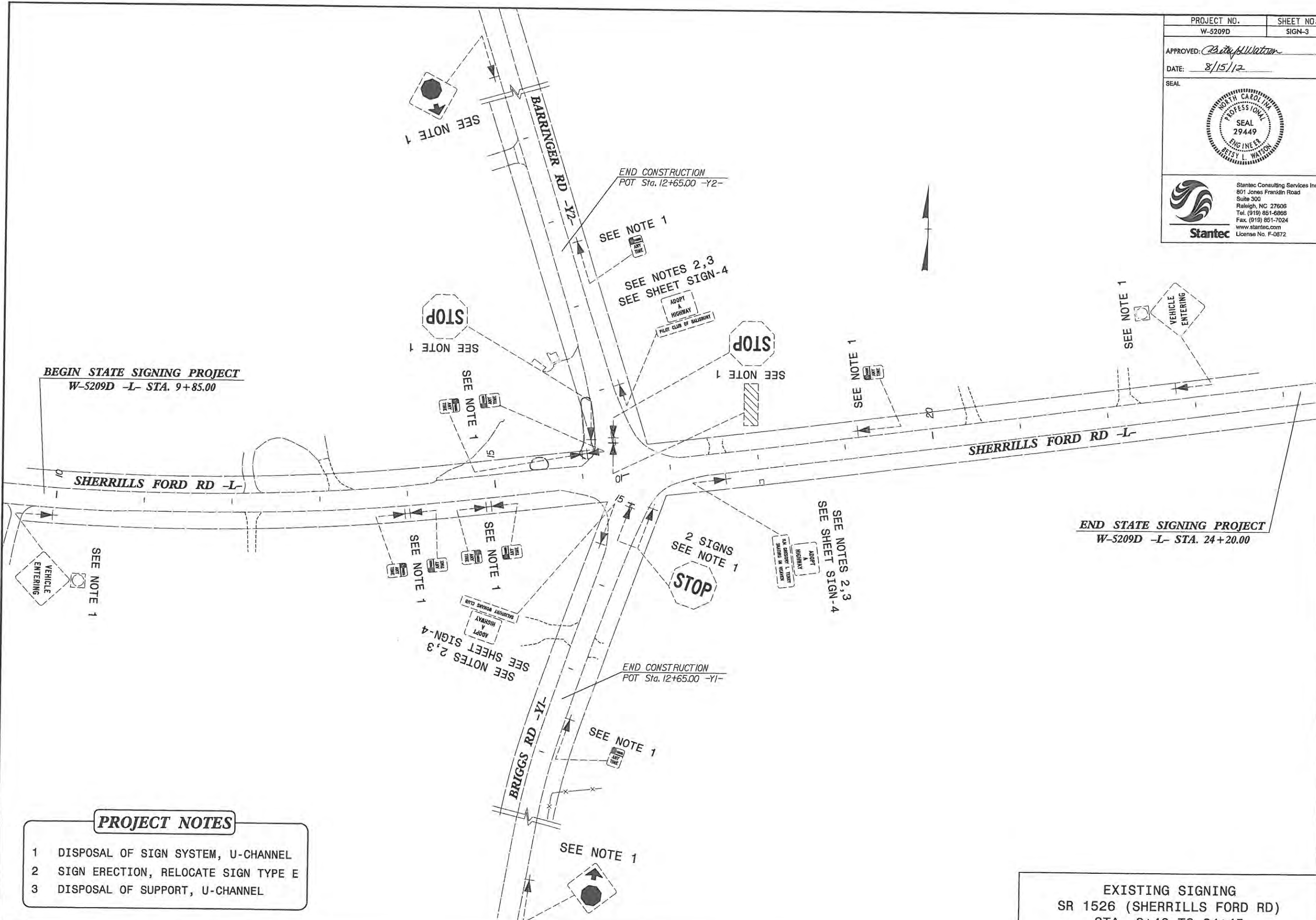
**INDEX**

SHEET NO.	DESCRIPTION
SIGN-1	TITLE SHEET
SIGN-2	TYPE 'E' SIGNS
SIGN-3-4	SIGN DETAIL SHEETS





PROJECT NO. W-5209D	SHEET NO. SIGN-3
APPROVED: <i>Patsy Watson</i>	
DATE: 8/15/12	
SEAL	
Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6868 Fax. (919) 851-7024 www.stantec.com License No. F-0672	



BEGIN STATE SIGNING PROJECT  
W-5209D -L- STA. 9+85.00

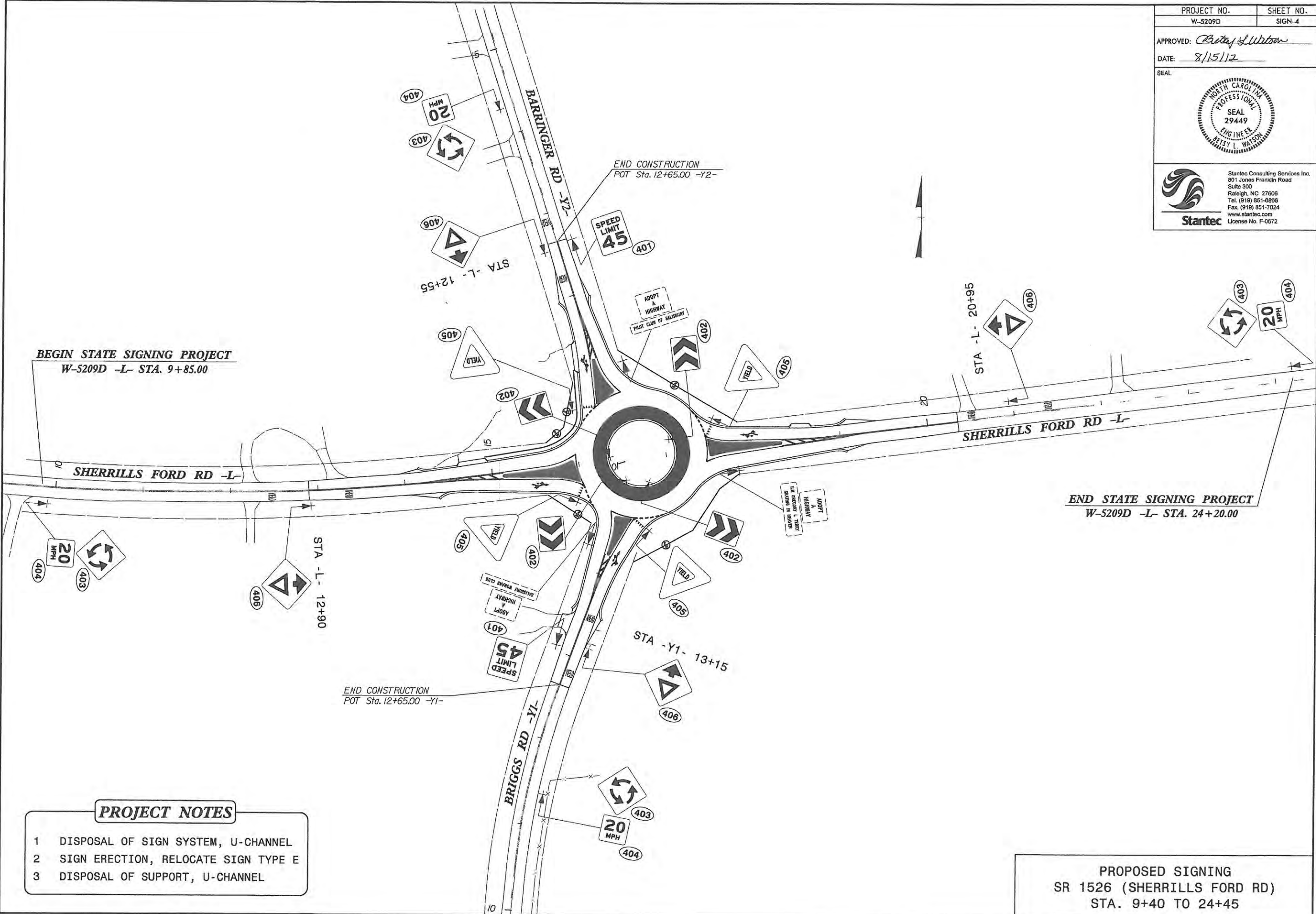
END STATE SIGNING PROJECT  
W-5209D -L- STA. 24+20.00

- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
  - 2 SIGN ERECTION, RELOCATE SIGN TYPE E
  - 3 DISPOSAL OF SUPPORT, U-CHANNEL

EXISTING SIGNING  
SR 1526 (SHERRILLS FORD RD)  
STA. 9+40 TO 24+45

8/15/2012  
 C:\Users\pfeffer\OneDrive\Documents\CAD\Signing\Layout\_P1.msx\171001258.dgn 03.dgn  
 pfeffer

PROJECT NO. W-5209D	SHEET NO. SIGN-4
APPROVED: <i>Petsy L. Watson</i>	
DATE: 8/15/12	
SEAL	
Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Raleigh, NC 27606 Tel. (919) 851-6886 Fax. (919) 851-7024 www.stantec.com License No. F-0672	



BEGIN STATE SIGNING PROJECT  
W-5209D -L- STA. 9+85.00

END STATE SIGNING PROJECT  
W-5209D -L- STA. 24+20.00

- PROJECT NOTES**
- 1 DISPOSAL OF SIGN SYSTEM, U-CHANNEL
  - 2 SIGN ERECTION, RELOCATE SIGN TYPE E
  - 3 DISPOSAL OF SUPPORT, U-CHANNEL

PROPOSED SIGNING  
SR 1526 (SHERRILLS FORD RD)  
STA. 9+40 TO 24+45

8/15/2012 1:58:58 PM C:\Users\p1ans\OneDrive\Projects\171631758\_sign\_04.dgn

**STATE OF NORTH CAROLINA  
DIVISION OF HIGHWAYS**

PROJ. REFERENCE NO. W-5209D	SHEET NO. X-A
--------------------------------	------------------

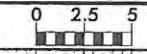
**CROSS-SECTION SUMMARY**

Station	Uncl. Exc. (cu. yd.)	Embt (cu. yd.)	
<b>L</b>			
12+89.50	0	0	
13+00.00	2	1	
13+50.00	19	4	
14+00.00	23	10	
14+50.00	19	56	
15+00.00	13	62	
15+50.00	14	108	
<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	
<b>Y1</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	
12+65.00	0	0	
13+00.00	15	2	
13+50.00	22	9	
14+00.00	1	57	
14+50.00	0	139	
14+71.32	0	84	
<b>Station</b>	<b>Uncl. Exc.</b>	<b>Embt</b>	
<b>Y2</b>	<b>(cu. yd.)</b>	<b>(cu. yd.)</b>	
10+76.31	0	0	
11+00.00	7	38	
11+50.00	11	116	
12+00.00	10	112	
12+50.00	11	42	
12+65.00	2	2	

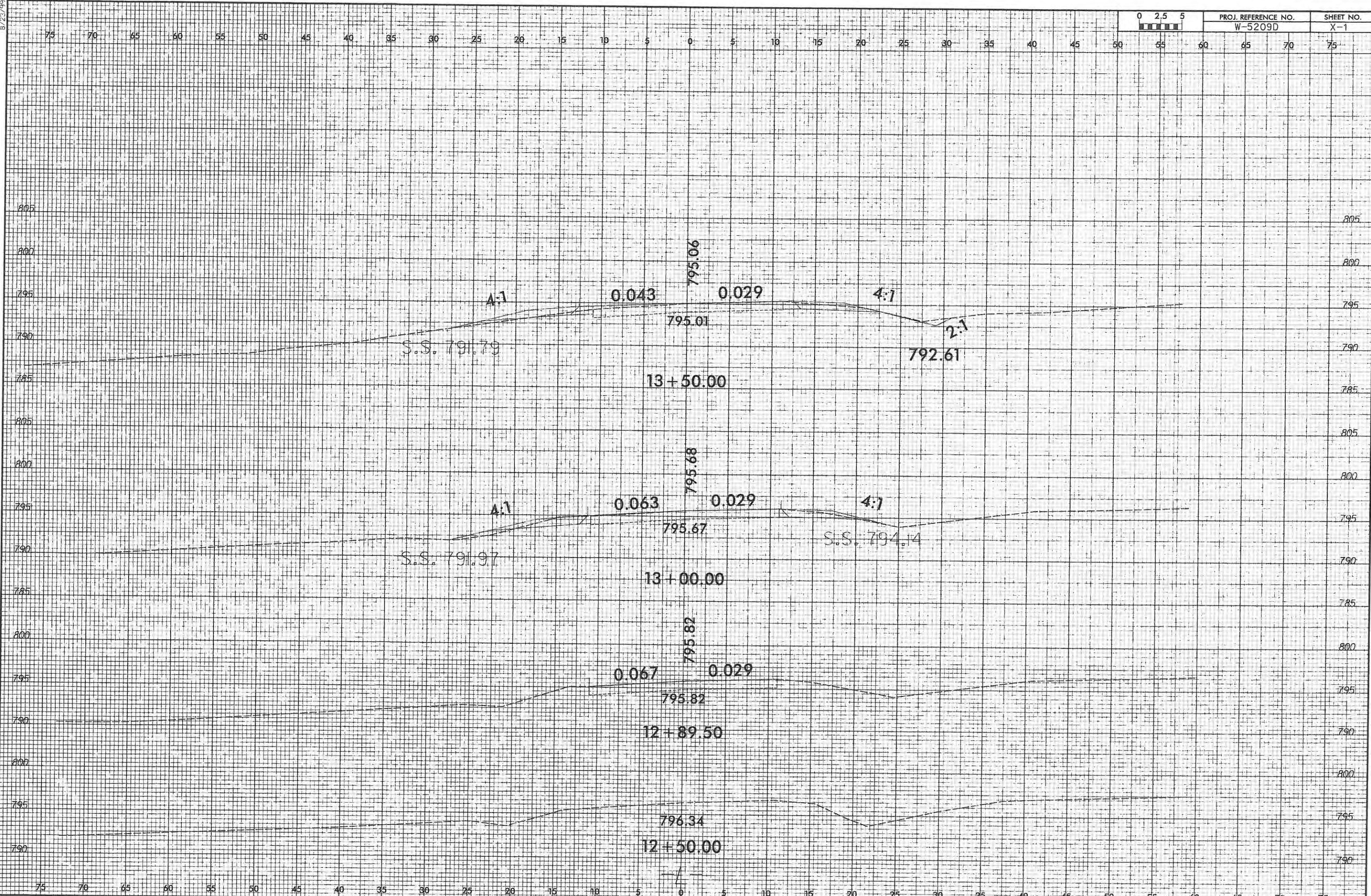
Approximate quantities only. Unclassified excavation, clearing and grubbing, and removal of existing pavement will be paid for at the lump sum price for "Grading".



8/23/99



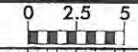
PROJ. REFERENCE NO.	SHEET NO.
W-5209D	X-1



T:\2000\proj\171001250-rd\p1.dgn  
 8/23/99 10:50:00 AM  
 171001250-rd\p1.dgn

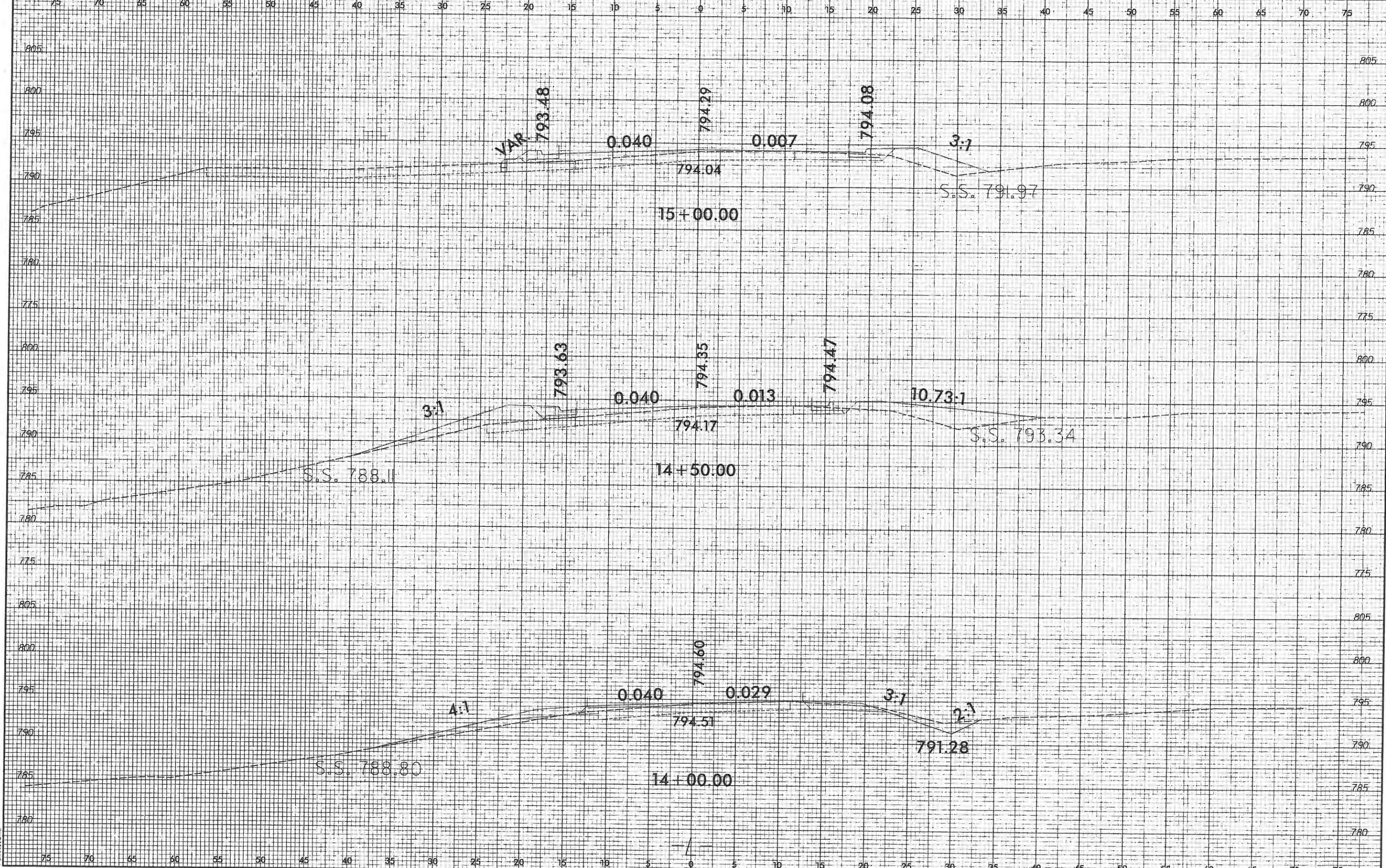


8/23/99



PROJ. REFERENCE NO.  
W-5209D

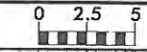
SHEET NO.  
X-2



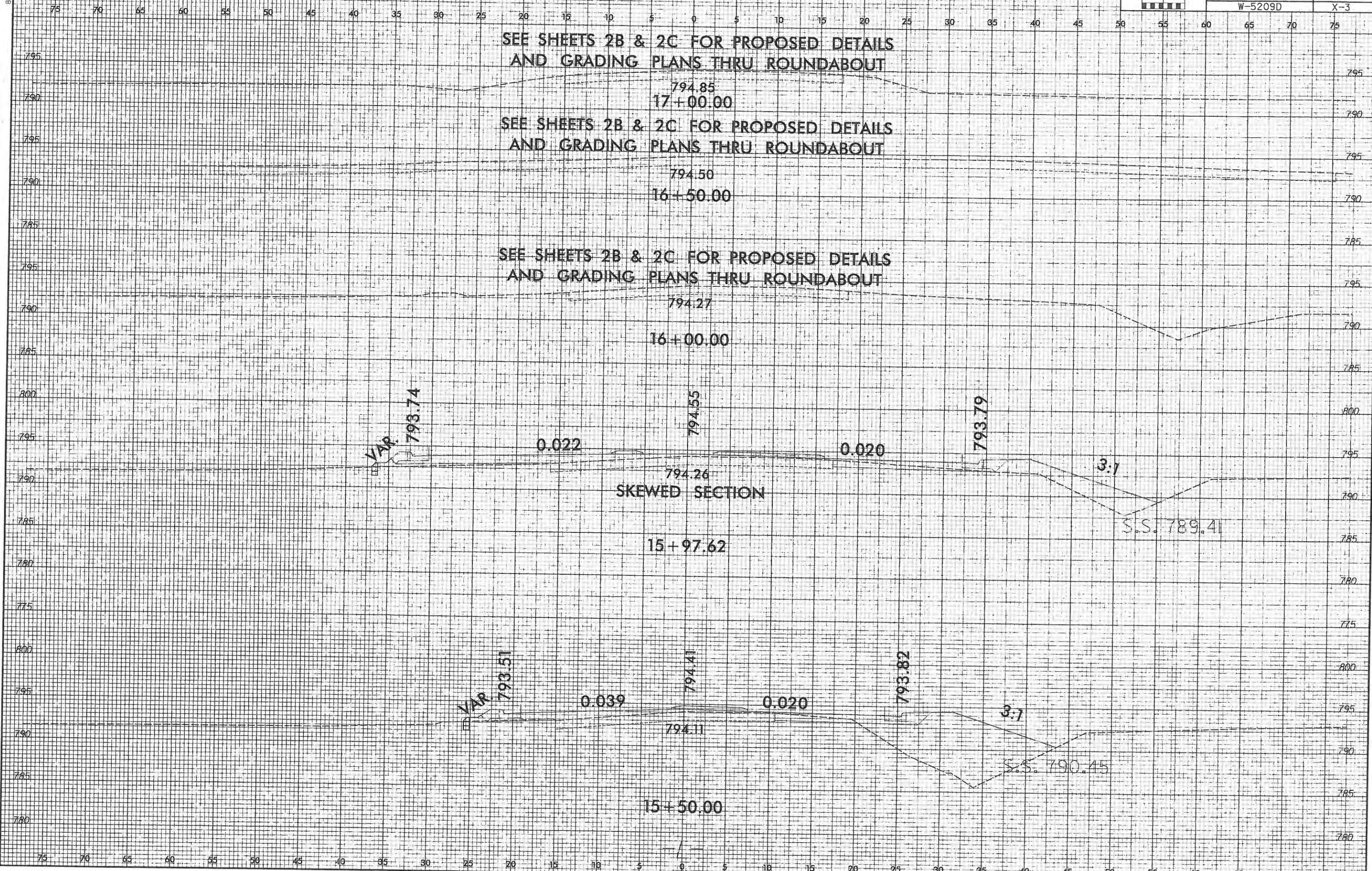
7/31/2012 10:58:00 AM C:\Users\j... \Xsc\171001258-rdy-xpl.dgn



B.257/19



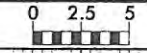
PROJ. REFERENCE NO.	SHEET NO.
W-5209D	X-3



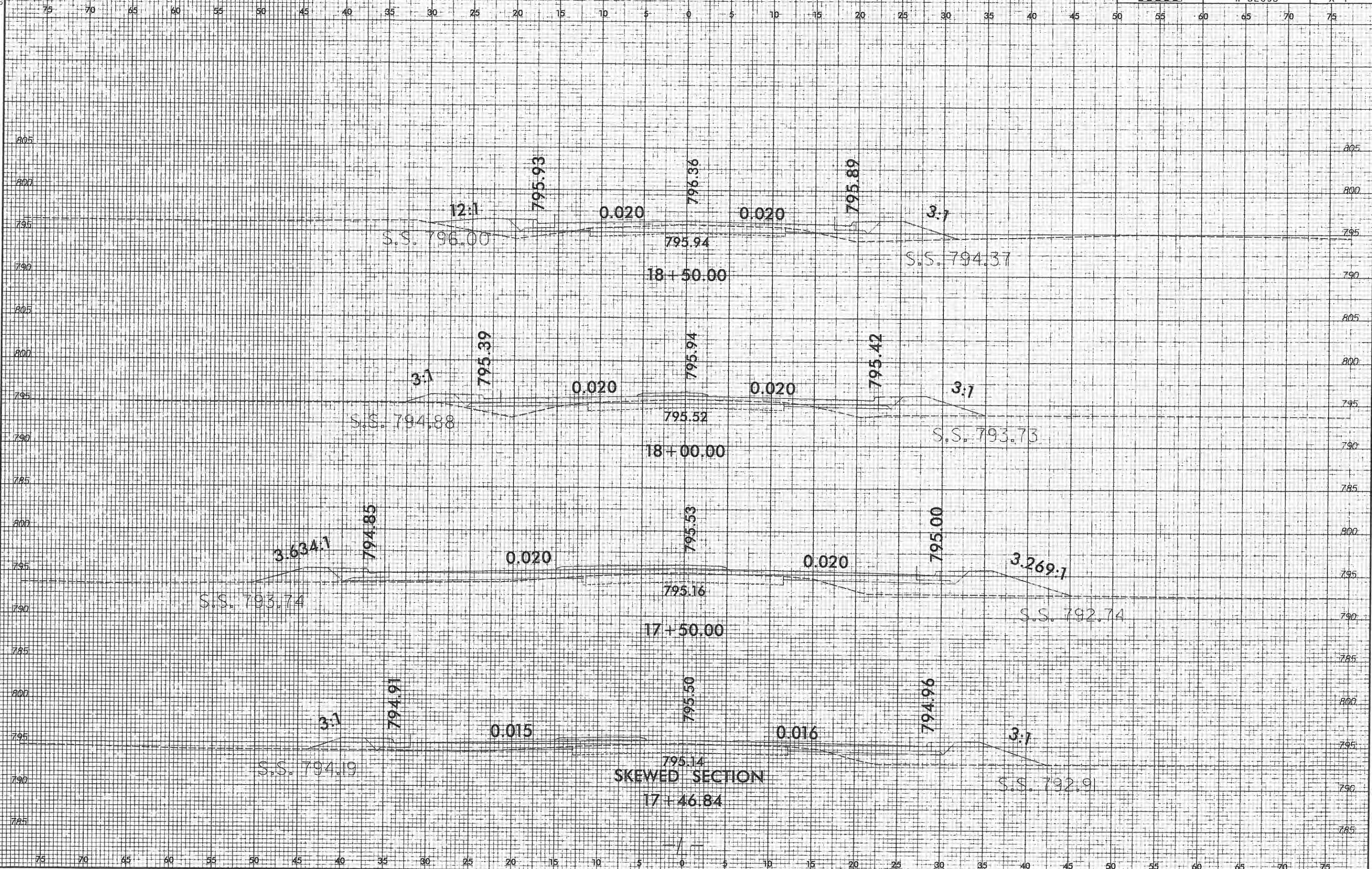
1/31/20  
L:\Projects\171001\258.rdy\_xpl.dwg  
Powell



8/23/99



PROJ. REFERENCE NO. W-5209D SHEET NO. X-4



S.S. 796.00

795.93

0.020

795.94

0.020

795.89

3:1

S.S. 794.37

18+50.00

S.S. 794.88

3:1

795.39

0.020

795.52

0.020

795.42

3:1

S.S. 793.73

18+00.00

S.S. 793.74

3.634:1

794.85

0.020

795.16

0.020

795.00

3.269:1

S.S. 792.74

17+50.00

S.S. 794.19

3:1

794.91

0.015

795.14

0.016

794.96

3:1

S.S. 792.9

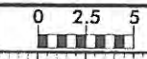
SKEWED SECTION

17+46.84

7/3/2016 10:31:20 AM \\X:\s\171001258\_rdy\_xp1.1.dgn

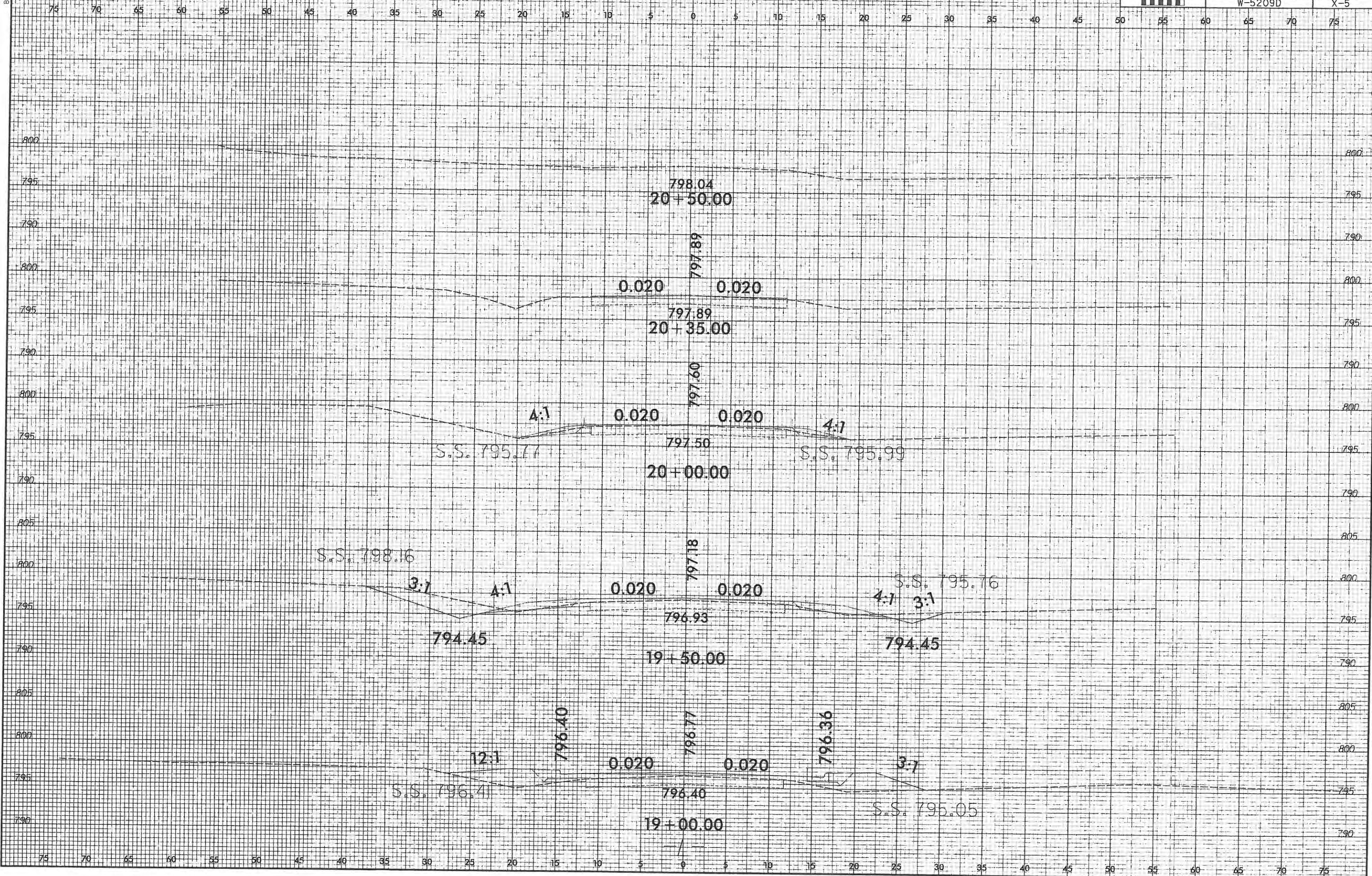


8/23/99



PROJ. REFERENCE NO.  
W-5209D

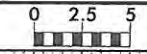
SHEET NO.  
X-5



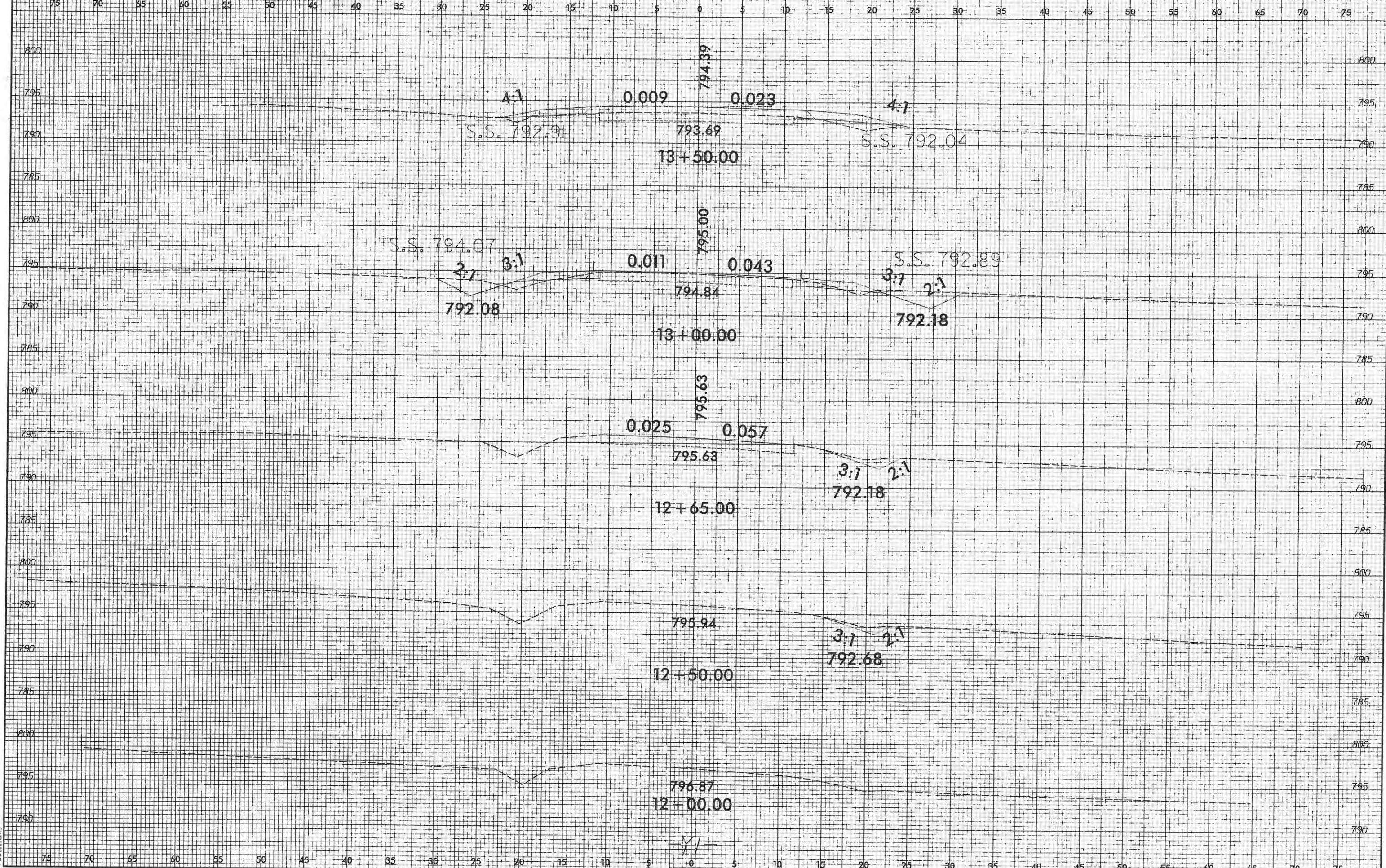
7/31/05  
I:\Projects\Xoc\11031253\_rdg\_vpl.dgn  
ca\11031253



8/23/91



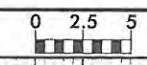
PROJ. REFERENCE NO.	SHEET NO.
W-5209D	X-6



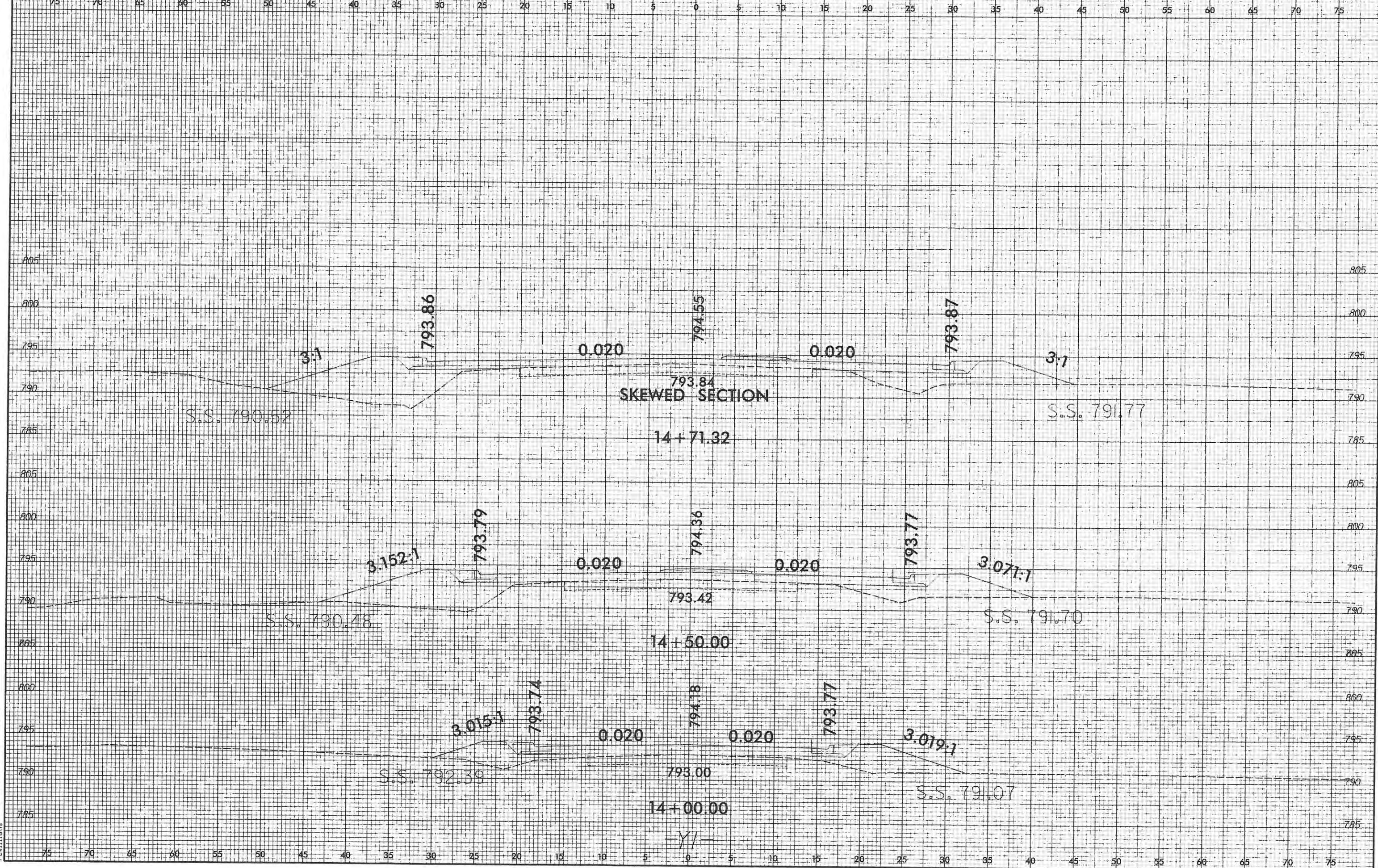
7/31/2015 11:00:00 AM C:\Users\j... \Projects\1258.rdy... \pl... .dgn



8/23/99



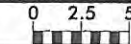
PROJ. REFERENCE NO.	SHEET NO.
W-5209D	X-7



7/31/2002  
[C:\Program Files\AutoCAD\Xsec\17100\258.rdy.xpl\_jpl.dgn  
revltdmgs

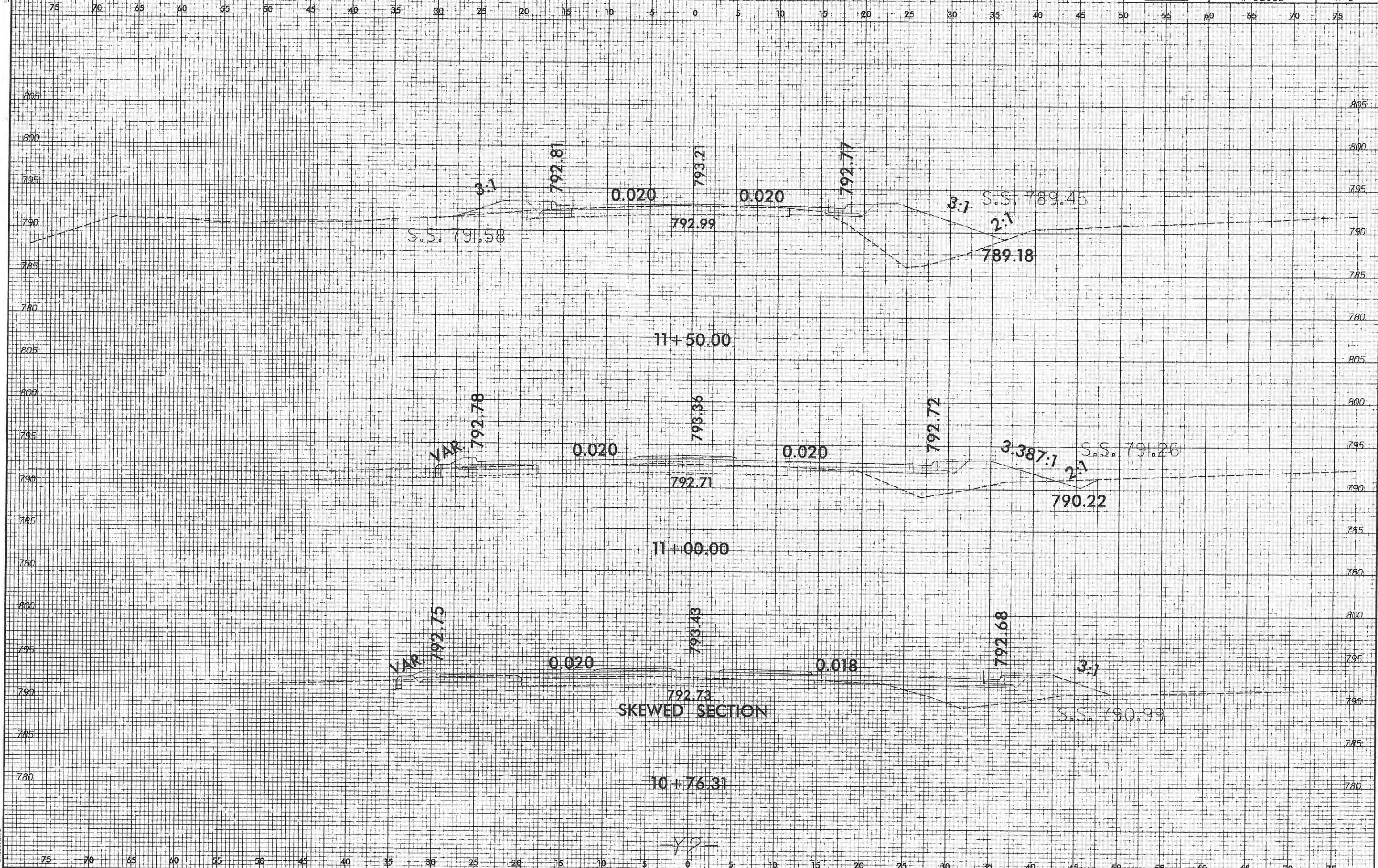


5/23/99



PROJ. REFERENCE NO.  
W-5209D

SHEET NO.  
X-8



7/3/2012  
U:\Roadway\Xsec\1710\1258-rdy-rp1-1.dgn  
Pawelliams



