See Sheet 1-A For Index of Sheets

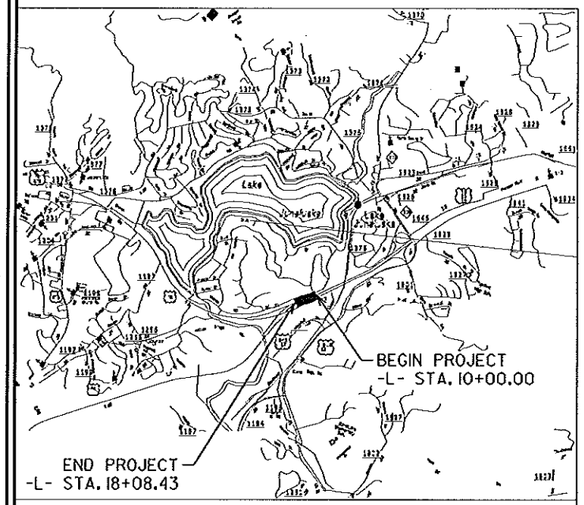
STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	SS-4914AA	1	19
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	
42777.3.1		CONSTRUCTION	

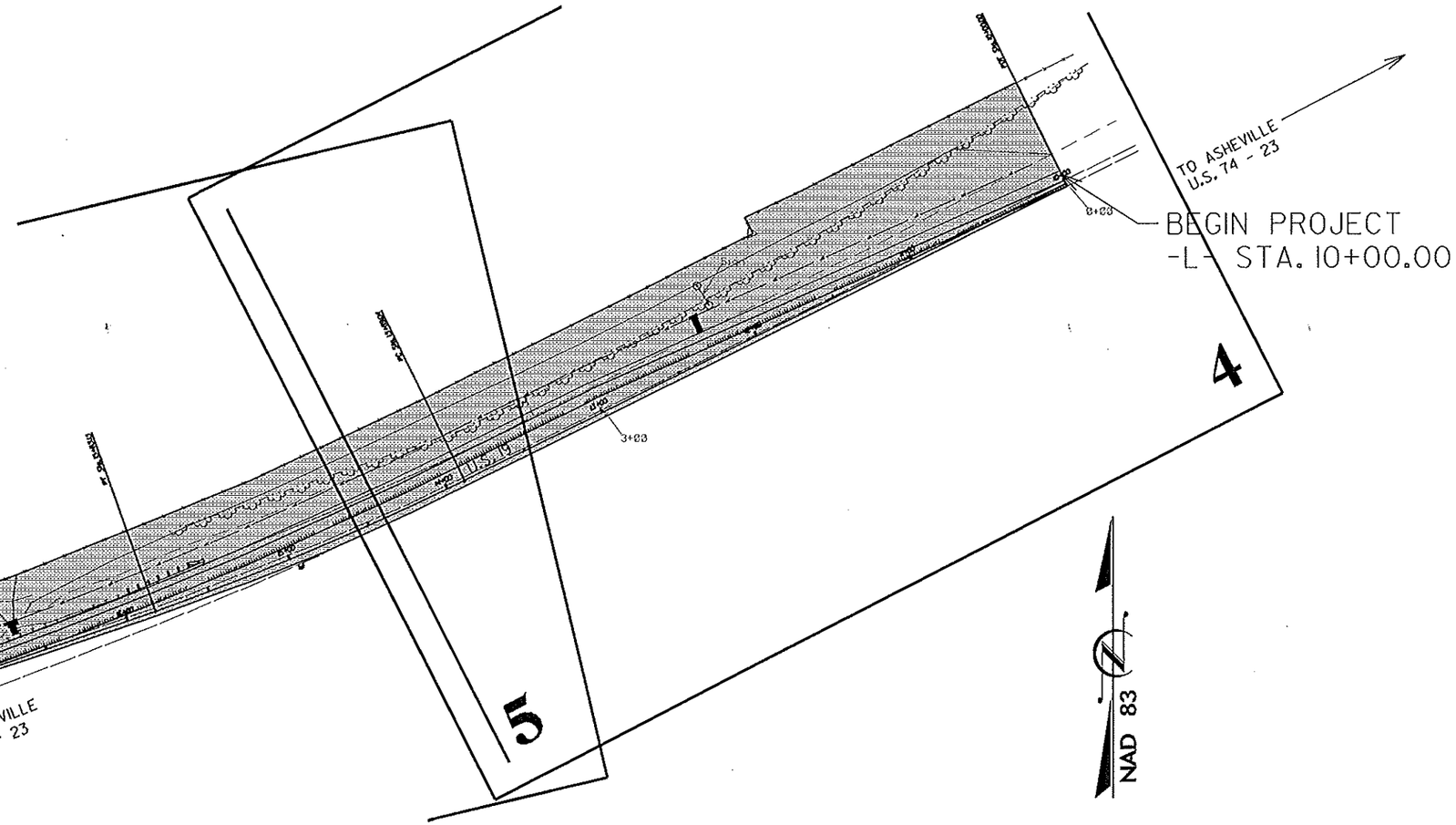
U.S. 74 EXIT 103 RAMP EXTENSION

LOCATION: U.S. 74 WESTBOUND AT EXIT 103
HAYWOOD COUNTY

TYPE OF WORK: PAVING, GRADING, DRAINAGE, GUARDRAIL, PAVEMENT MARKING



VICINITY MAP



TIP PROJECT: SS-4914AA

CONTRACT: DN00208

GRAPHIC SCALES	DESIGN DATA	PROJECT LENGTH
20' 10' 0 20' 40' PLANS 0 PROFILE (HORIZONTAL) 5' 2.5' 0 5' 10' X-SECTIONS		LENGTH OF ROADWAY PROJECT NO. SS-4914AA = 0.16 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
178 Henry Bird Road, Whittier, NC 28789

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE:

LETTING DATE:
November 27, 2012

Jonathan L. Woodard, P.E.
PROJECT ENGINEER

JEFFREY E. ALSPAUGH, E.I.
PROJECT DESIGN ENGINEER

HYDRAULICS ENGINEER

SIGNATURE: *P.E.*

ROADWAY DESIGN ENGINEER

SIGNATURE: *P.E.*

STATE OF NORTH CAROLINA · DEPARTMENT OF TRANSPORTATION ·

09/28/99

15-OCT-2012 08:37
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PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	1-A

ROADWAY DESIGN ENGINEER

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	PAVEMENT SCHEDULE, TYPICAL SECTIONS
3	SUMMARY OF QUANTITIES
~~3A~~	~~SUMMARY OF DRAINAGE QUANTITIES~~ ~~SUMMARY OF GUARDRAIL, EARTHWORK SUMMARY, AND ASPHALT PAVEMENT REMOVAL SUMMARY~~
4 THRU 5	PLAN SHEET
~~-----~~	~~PROFILE SHEET~~
TCP-1 THRU TCP-3	TRAFFIC CONTROL PLANS
PM-1 THRU PM-2	PAVEMENT MARKING PLANS
~~L-1 THRU L-~~	~~LANDSCAPE PLANS~~
~~RF-1 THRU RF~~	~~REFORESTATION PLANS~~
EC-1 THRU EC-2	EROSION CONTROL PLANS
~~SIGN-1 THRU SIGN~~	~~SIGNING PLANS~~
~~U-1 THRU U-~~	~~UTILITIES PLANS~~
X-1 THRU X-5	CROSS-SECTIONS
~~S-1 THRU S-~~	~~STRUCTURE PLANS~~

2012 SPECIFICATIONS
EFFECTIVE: 01-17-12
REVISED: 07/30/12

GENERAL NOTES:

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.

REMOVAL AND DISPOSAL OF THE FOLLOWING EXISTING ITEMS SHALL BE CONSIDERED INCIDENTAL TO LUMP SUM GRADING: TYPE A SIGN FOOTERS AND SUPPORT STEEL COLUMNS, CONCRETE END WALLS, CONCRETE DITCH LINING, PORTIONS OF CONCRETE FLUMES,

CLEARING:

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

SHOULDER CONSTRUCTION:

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

GUARDRAIL:

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

SUBSURFACE PLANS:

NO SUBSURFACE PLANS ARE AVAILABLE ON THIS PROJECT. THE CONTRACTOR SHOULD MAKE HIS OWN INVESTIGATION AS TO THE SUBSURFACE CONDITIONS.

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
225.01	Guide for Grading Subgrade - Interstate and Freeway
DIVISION 3 -	PIPE CULVERTS
300.01	Method of Pipe Installation
DIVISION 6 -	ASPHALT BASES AND PAVEMENTS
665.01	Asphalt Shoulders - Milled Rumble Strips
DIVISION 8 -	INCIDENTALS
838.05	Concrete 'L' Endwall for Single Pipe Culverts - 15" thru 48" Pipe
862.01	GuardrailPlacement
862.02	GuardrailInstallation

8/17/99

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04/16/11

PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	1-B

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 (EIP)
- Property Corner
- Property Monument (ECM)
- Parcel/Sequence Number (123)
- Existing Fence Line
- Proposed Woven Wire Fence
- Proposed Chain Link Fence
- Proposed Barbed Wire Fence
- Existing Wetland Boundary (WLB)
- Proposed Wetland Boundary (WLB)
- Existing Endangered Animal Boundary (EAB)
- Existing Endangered Plant Boundary (EPB)
- Known Soil Contamination: Area or Site
- Potential Soil Contamination: Area 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 (JS)
- Buffer Zone 1 (BZ 1)
- Buffer Zone 2 (BZ 2)
- Flow Arrow
- Disappearing Stream
- Spring
- Wetland
- Proposed Lateral, Tail, Head Ditch (PLTH)
- False Sump

RAILROADS:

- Standard Gauge (CSX TRANSPORTATION)
- RR Signal Milepost (MILEPOST 35)
- Switch (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 RW Marker
- Proposed Control of Access Line with Concrete C/A 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 Curb Ramp (CR)
- 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 (Vineyard)

EXISTING STRUCTURES:

MAJOR:

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

MINOR:

- Head and End Wall (CONC HW)
- Pipe Culvert
- Footbridge
- Drainage Box: Catch Basin, DI or JB (CB)
- Paved Ditch Gutter
- Storm Sewer Manhole (S)
- Storm Sewer (S)

UTILITIES:

POWER:

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

TELEPHONE:

- Existing Telephone Pole
- Proposed Telephone Pole
- Telephone Manhole (T)
- Telephone Booth
- Telephone Pedestal (T)
- Telephone Cell Tower
- U/G Telephone Cable Hand Hole (HH)
- Recorded U/G Telephone Cable (T)
- Designated U/G Telephone Cable (S.U.E.*) (T)
- Recorded U/G Telephone Conduit (TC)
- Designated U/G Telephone Conduit (S.U.E.*) (TC)
- Recorded U/G Fiber Optics Cable (T FO)
- Designated U/G Fiber Optics Cable (S.U.E.*) (T FO)

WATER:

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

TV:

- TV Satellite Dish
- TV Pedestal (C)
- TV Tower
- U/G TV Cable Hand Hole (HH)
- Recorded U/G TV Cable (TV)
- Designated U/G TV Cable (S.U.E.*) (TV)
- Recorded U/G Fiber Optic Cable (TV FO)
- Designated U/G Fiber Optic Cable (S.U.E.*) (TV FO)

GAS:

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

SANITARY SEWER:

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

MISCELLANEOUS:

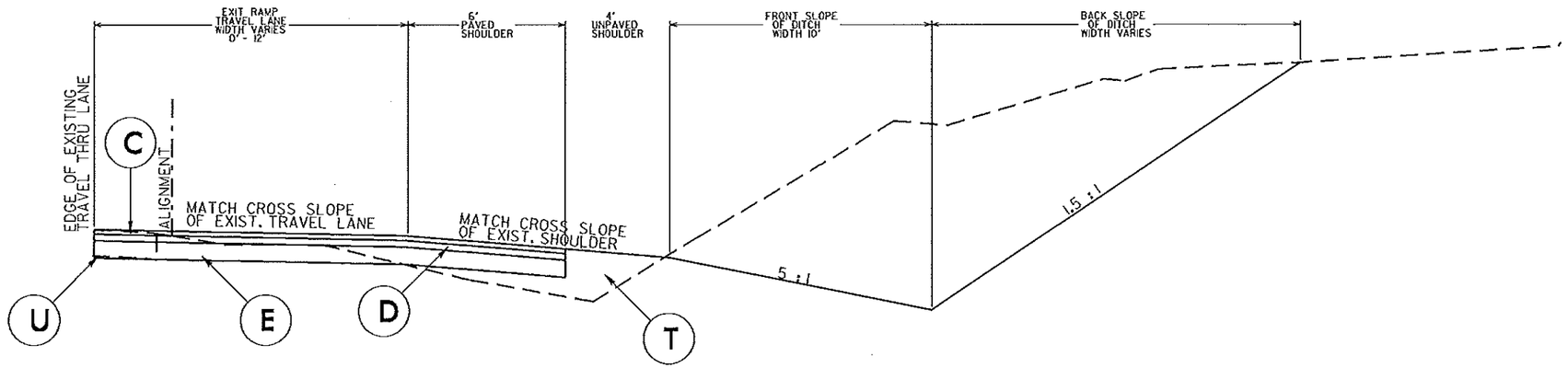
- Utility Pole
- Utility Pole with Base
- Utility Located Object
- Utility Traffic Signal Box (S)
- Utility Unknown U/G Line (?UTL)
- U/G Tank; Water, Gas, Oil
- Underground Storage Tank, Approx. Loc. (UST)
- A/G Tank; Water, Gas, Oil
- Geoenvironmental Boring
- U/G Test Hole (S.U.E.*)
- Abandoned According to Utility Records (AATUR)
- End of Information (E.O.I.)

PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	2
ROADWAY DESIGN ENGINEER	PAVEMENT DESIGN ENGINEER

PAVEMENT SCHEDULE

(FINAL PAVEMENT DESIGN)

C	PROP. APPROX. 2" ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 224 LBS. PER SQ. YD.
D	PROP. APPROX. 3" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE I19.0B, AT AN AVERAGE RATE OF 342 LBS. PER SQ. YD.
E	PROP. APPROX. 8" ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 648 LBS. PER SQ. YD.
T	EARTH MATERIAL
U	EXISTING PAVEMENT



TYPICAL SECTION NO. 1

U.S. 74 - 23 AT EXIT 103 ALONG RAMP EXTENTION
STA. 10+00.00 TO STA. 18+08.43
NOT TO SCALE

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4/04/05

COMPUTED BY:_____ DATE:_____
CHECKED BY:_____ DATE:_____

PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

NOTE: Invert Elevations are for Bid Purposes only and shall not be used for project construction stakeout. See "Standard Specifications For Roads and Structures, Section 300-5".

SUB-REGIONAL & REGIONAL

LIST OF PIPES, ENDWALLS, ETC. (FOR PIPES 48" & UNDER)

STATION	LOCATION (LT.&/or CL)	STRUCTURE NO. FROM	STRUCTURE NO. TO	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	DRAINAGE PIPE (RCP, CSP, CAAP, HDPE, or PVC) SIZE	DRAINAGE PIPE THICKNESS OR GAUGE	C.S. PIPE SIZE	C.S. PIPE THICKNESS OR GAUGE	R.C. PIPE (CLASS III) SIZE	R.C. PIPE (CLASS IV) SIZE	— R.C. PIPE (CLASS V)	— R.C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	— R.C. PIPE CULVERTS, CONTRACTOR DESIGN PIPE	15" SIDE DRAIN PIPE	18" SIDE DRAIN PIPE	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. R.C.P.	ENDWALLS STD. 838.01, STD. 838.11 OR STD. 838.80 (UNLESS NOTED OTHERWISE) CU. YDS. C.S.P.	QUANTITIES FOR DRAINAGE STRUCTURES * TOTAL L.F. FOR PAY QUANTITY SHALL BE COL "A" + (1.3 X COL."B") UN. *FT. PER EACH (0' THRU 5.0')	UN. *FT. A 5.01' THRU 10.0'	UN. *FT. B 10.01' AND ABOVE	C.B. STD. 840.01 OR STD. 840.02	FRAME, GRATES AND HOOD STANDARD 840.03 TYPE OF GRATE E	F	O	CONCRETE TRANSITIONAL SECTION CATCH BASIN	CONCRETE TRANSITIONAL SECTION DROP INLET	G.D.I. FRAME WITH GRATE STD. 840.27	G.D.I. FRAME WITH TWO GRATES STD. 840.22	G.D.I. (N.S.) FRAME WITH GRATE STD. 840.24	G.D.I. (N.S.) FRAME WITH TWO GRATES STD. 840.24	J.B. STD. 840.21 OR 840.22	CORR. STEEL ELBOWS NO. & SIZE	CONC. COLLARS CL. "B" C.Y. STD. 840.72	CONC. & BRICK PIPE PLUG, C.Y. STD. 840.71	PIPE REMOVAL LIN.FT.	REMARKS
12+28.05	RT							12"	.064																												
								15"	.064																														
								18"	.064																														
								24"	.064																														
								30"																														
								36"	.079																														
								42"	.109																														
								48"	.109																														
								DO NOT USE RCP																															
								DO NOT USE CSP																															
								DO NOT USE CAAP																															
								DO NOT USE HDPE																															
12+28.05	RT							15"	10'												1.0																STD. 838.05
16+64.20	RT							24"	8.5'																												
16+64.40	RT																				2.4																STD. 838.05

ABBREVIATIONS

C.B.	CATCH BASIN
N.D.I.	NARROW DROP INLET
D.I.	DROP INLET
G.D.I.	GRATED DROP INLET
G.D.I. (N.S.)	GRATED DROP INLET (NARROW SLOT)
J.B.	JUNCTION BOX
M.H.	MANHOLE
T.B.D.I.	TRAFFIC BEARING DROP INLET
T.B.J.B.	TRAFFIC BEARING JUNCTION BOX

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$$$$ICEBOX$$$$

PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	4
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS 8/17/99

MATCH TO SHEET 5

PC Sta. 13+89.04

POT Sta. 10+00.00

NAD 83

STA. 12+28.05; 25.6' RT
PROP. HEADWALL
(MATCH SLOPE OF EXIST PIPE)

STA. 12+28.05; 15.9' RT
PROP. 10' OF 15" CSP
(MATCH SLOPE OF EXISTING PIPE)

EXIST. CONTROLLED ACCESS
FENCE LINE AND R.O.W.

EXIST. WOOD LINE

EXIST. CONCRETE FLUME
AND CONCRETE DITCH
LINING TO BE REMOVED

EXIST. CONTROLLED ACCESS
R.O.W. MONUMENT

+9.4' 14.0'
+9.4' 14.1'
+8.6' 12.9'
+8.2' 12.4'
+9.5' 14.3'
+11.3' 17.0'
+13.6' 20.4'
+15.2' 22.8'
+17.9' 26.7'

STA. K+12,69; 18.7' RT
BEGIN PROP. DITCH

14+00 U.S. 19 13+00 12+00 11+00 10+00

U.S. 74 - 23

12' GAP (TYP.)

68' MILLED RUMBLE STRIP (TYP.)

STA. 10+00.00
BEGIN PROP. 6' PAVED SHOULDER

STA. 10+00.00
BEGIN PROP. 300' TAPER
FOR EXIT RAMP

STA. 13+00.00
END PROP. 300' TAPER
BEGIN 12' WIDE TRAVEL LANE
FOR EXIT RAMP

EXIST. HEADWALL TO BE REMOVED
(ASSUMES LOSS OF APPROX. 2'
OF EXIST PIPE; ACCOUNTED
FOR IN PROP. PIPE QUANTY)

EXIST. TYPE A SIGN
PANELS TO BE REMOVED BY OTHERS
FOOTERS AND STEEL SUPPORT COLUMNS
TO BE REMOVED BY CONTRACTOR

MATCH TO SHEET 5

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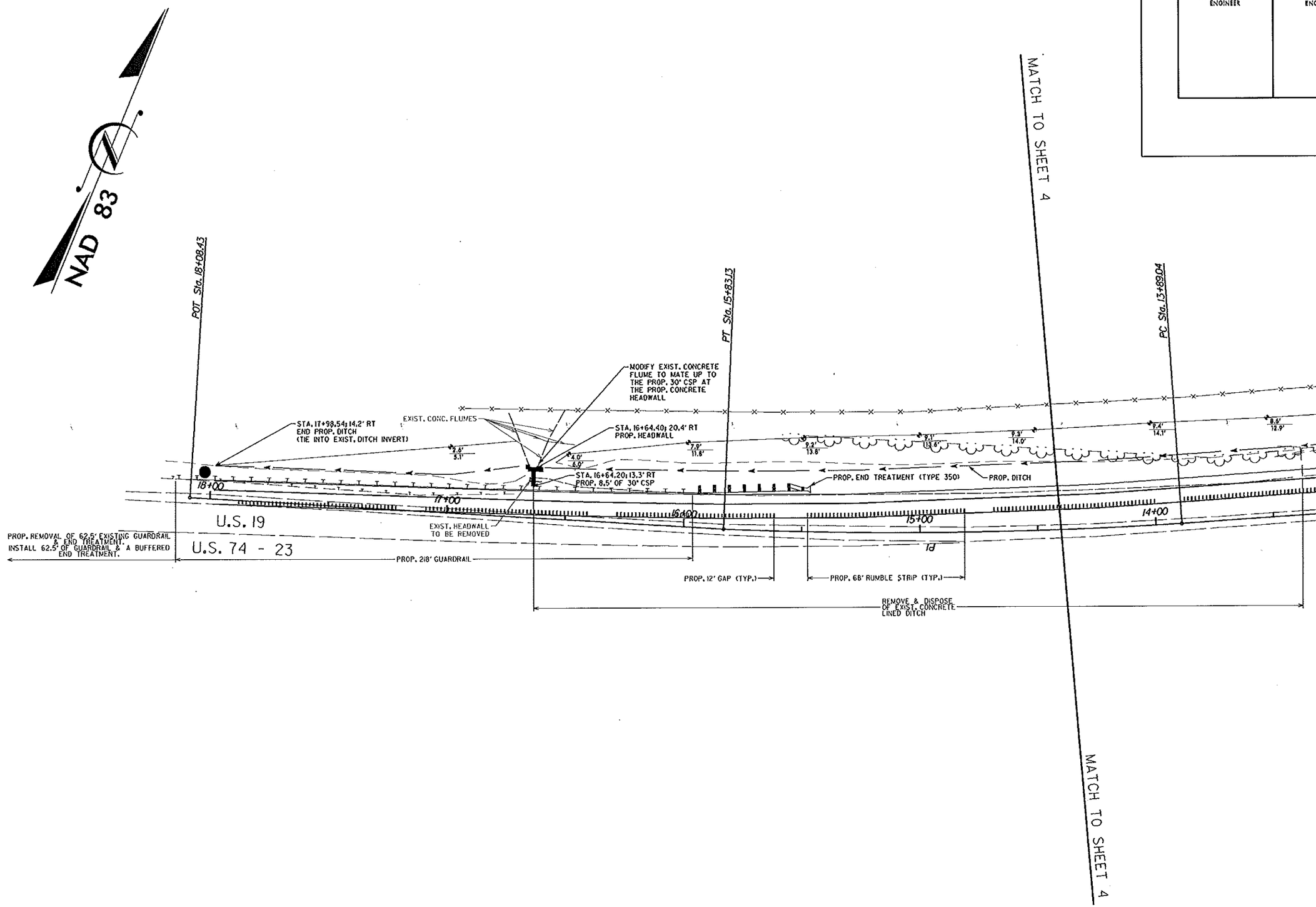
PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



REVISIONS

8/17/99

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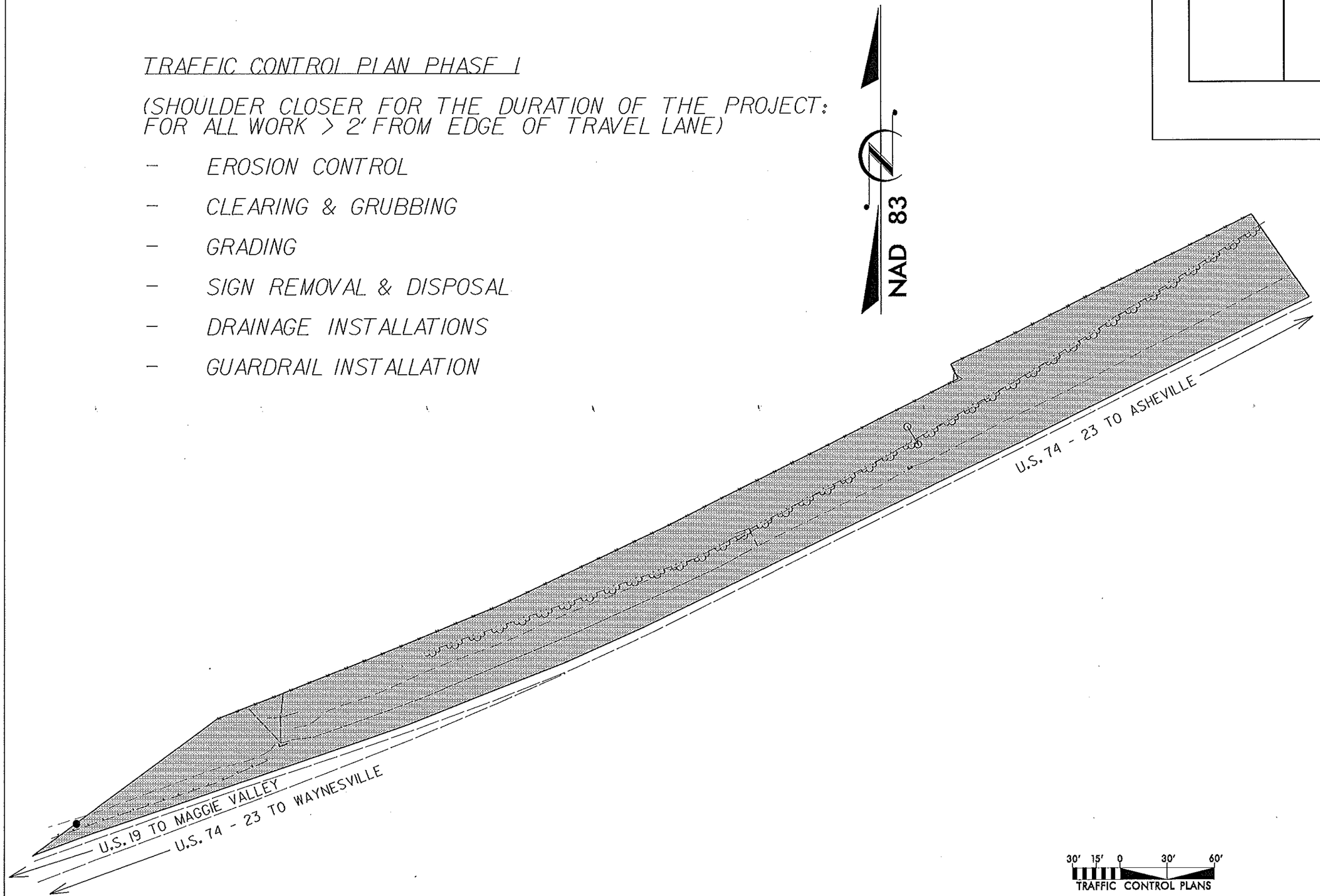
PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	TCP-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TRAFFIC CONTROL PLAN PHASE 1

(SHOULDER CLOSER FOR THE DURATION OF THE PROJECT: FOR ALL WORK > 2' FROM EDGE OF TRAVEL LANE)

- EROSION CONTROL
- CLEARING & GRUBBING
- GRADING
- SIGN REMOVAL & DISPOSAL
- DRAINAGE INSTALLATIONS
- GUARDRAIL INSTALLATION



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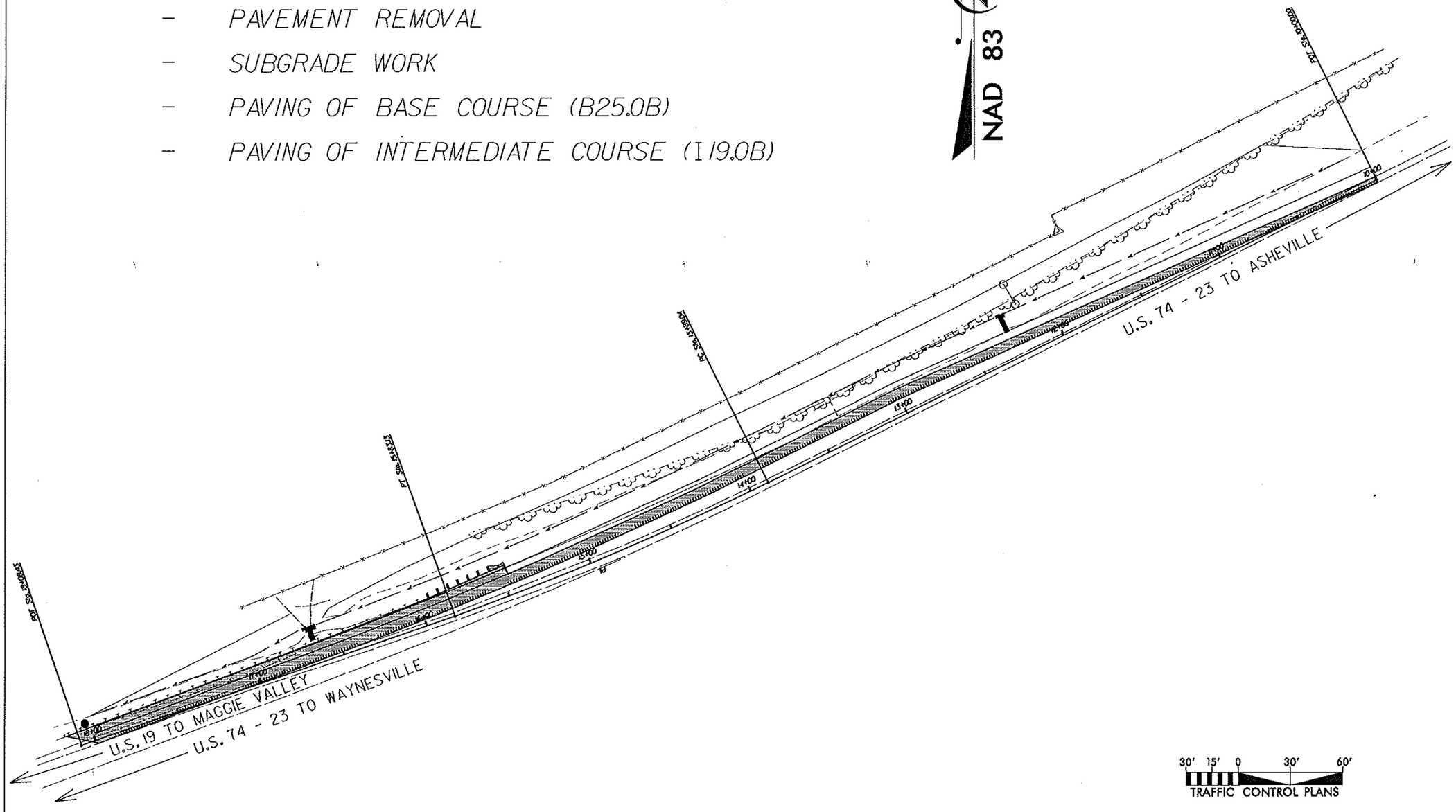
PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	TCP-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TRAFFIC CONTROL PLAN PHASE 2

(24-HOUR LANE CLOSURE FOR SEVERAL DAYS: FOR ALL WORK 2' OR LESS FROM THE EDGE OF THE TRAVEL LANE)

- PAVEMENT REMOVAL
- SUBGRADE WORK
- PAVING OF BASE COURSE (B25.0B)
- PAVING OF INTERMEDIATE COURSE (I19.0B)

NAD 83



30' 15' 0 30' 60'

TRAFFIC CONTROL PLANS

REVISIONS

8/17/99

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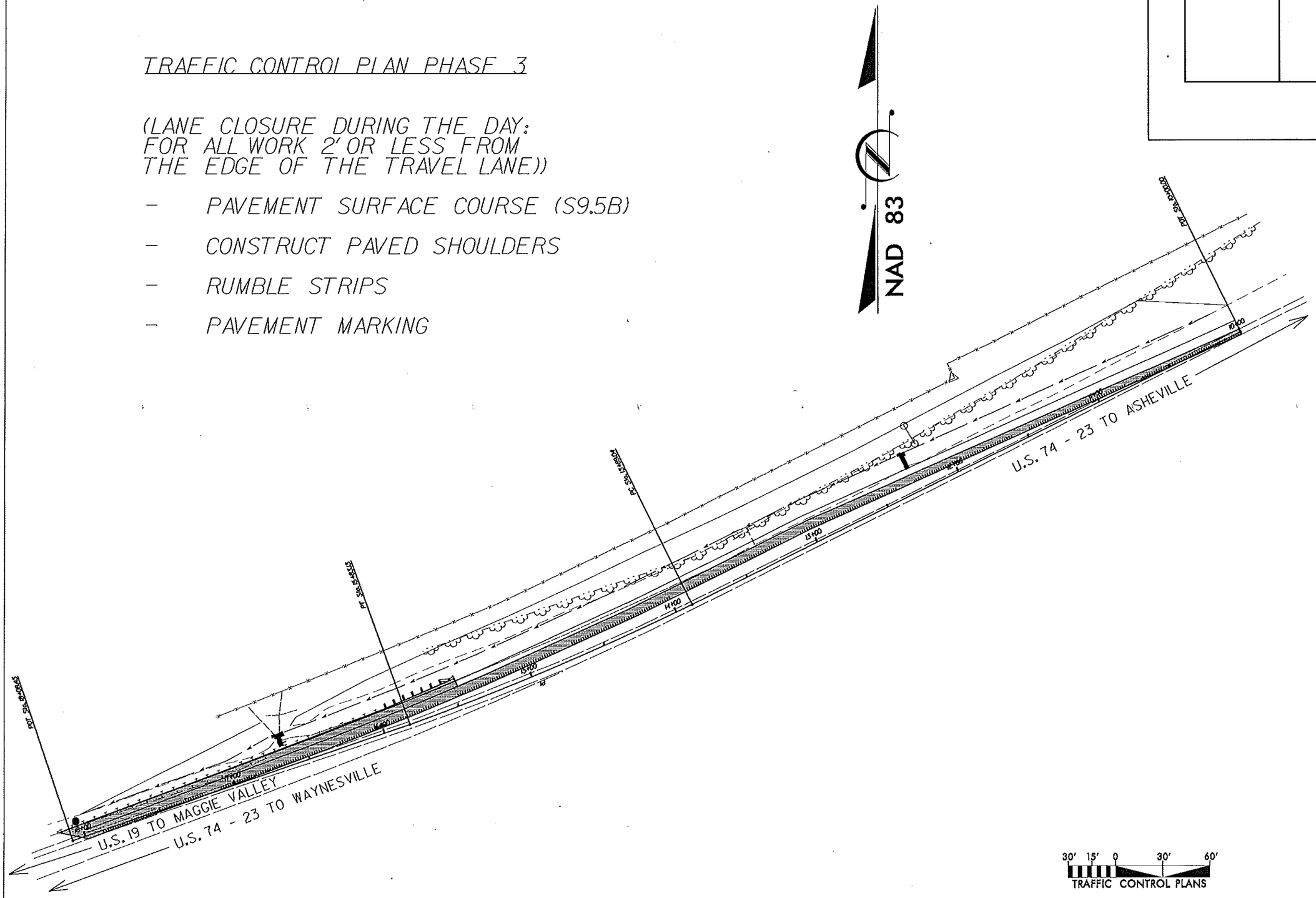
PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	TCP-3
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

TRAFFIC CONTROL PLAN PHASE 3

(LANE CLOSURE DURING THE DAY:
FOR ALL WORK 2' OR LESS FROM
THE EDGE OF THE TRAVEL LANE))

- PAVEMENT SURFACE COURSE (S9.5B)
- CONSTRUCT PAVED SHOULDERS
- RUMBLE STRIPS
- PAVEMENT MARKING



REVISIONS

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PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	PM-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

MATCH TO SHEET PM-2

PC Sta. 13+89.04

POT Sta. 10+00.00

NAD 83

14+00

U.S. 19

U.S. 74 - 23

13+00

12+00

11+00

10+00

BEGIN PROP. 798 LF OF 4" WHITE EDGE LINE (2 COATS OF PAINT)

BEGIN PROP. 805 LF OF 4" WHITE 3' - 9' SKIP (2 COATS OF PAINT)

MATCH TO SHEET PM-2

REVISIONS

8/17/99

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PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	PM-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83

POT Sta. 18+08.43

PT Sta. 15+83.13

PC Sta. 13+69.04

MATCH TO SHEET PM-1

18+00

17+00

16+00

15+00

14+00

U.S. 19

U.S. 74 - 23

END PROP.798 LF OF 4" WHITE EDGE LINE (2 COATS OF PAINT)

END PROP.805 LF OF 4" WHITE 3' - 9' SKIP (2 COATS OF PAINT)

MATCH TO SHEET PM-1

REVISIONS

8/17/99

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$$$$USERNAME$$$$

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C	
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	
	Wattle with Polyacrylamide (PAM)	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	

2012 STANDARD DRAWINGS

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

DISTURBED AREA
41,383 SF

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.

PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	EC-1
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

JEFFREY E. ALSPAUGH
LEVEL IIIA NAME

678
LEVEL IIIA CERTIFICATION NO.

NAD 83

MATCH TO SHEET EC-2

PC Sta. 13+89.04

POT Sta. 10+00.00

PROP. EROSION CONTROL MATTING FOR CUT SLOPE PROTECTION (TYP.)

14+00 U.S. 19 13+00 12+00 11+00 10+00

U.S. 74 - 23

PROP. ROCK SILT CHECK (TYPE A) (W/MATTING & PAM)

PROP. 14 LF OF TEMPORARY FENCE TO BE USED TO PREVENT ROADWAY RUNOFF FROM CASCADING OVER THE EXISTING HEADWALL.

PROP. ROCK SILT CHECK (TYPE A)

PROP. ROCK SILT CHECK (TYPE A) (W/MATTING & PAM)

PROP. EROSION CONTROL MATTING FOR DITCH PROTECTION

MATCH TO SHEET EC-2

INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	*STABILIZATION TIME*	*TIMEFRAME EXCEPTIONS*
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.

REVISIONS 8/17/99

19-SEP-2012 10:44
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$$$$USERNAME$$$$

PROJECT REFERENCE NO.	SHEET NO.
SS-4914AA	EC-2
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

NAD 83

Std. #	Description	Symbol
1605.01	Temporary Silt Fence	
1606.01	Special Sediment Control Fence	
1622.01	Temporary Berms and Slope Drains	
1630.02	Silt Basin Type B	
1630.03	Temporary Silt Ditch	
1630.05	Temporary Diversion	
1630.06	Special Stilling Basin	
1632.03	Rock Inlet Sediment Trap Type C	
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	
	Wattle with Polyacrylamide (PAM)	
1634.02	Temporary Rock Sediment Dam Type-B	
1635.01	Rock Pipe Inlet Sediment Trap Type-A	

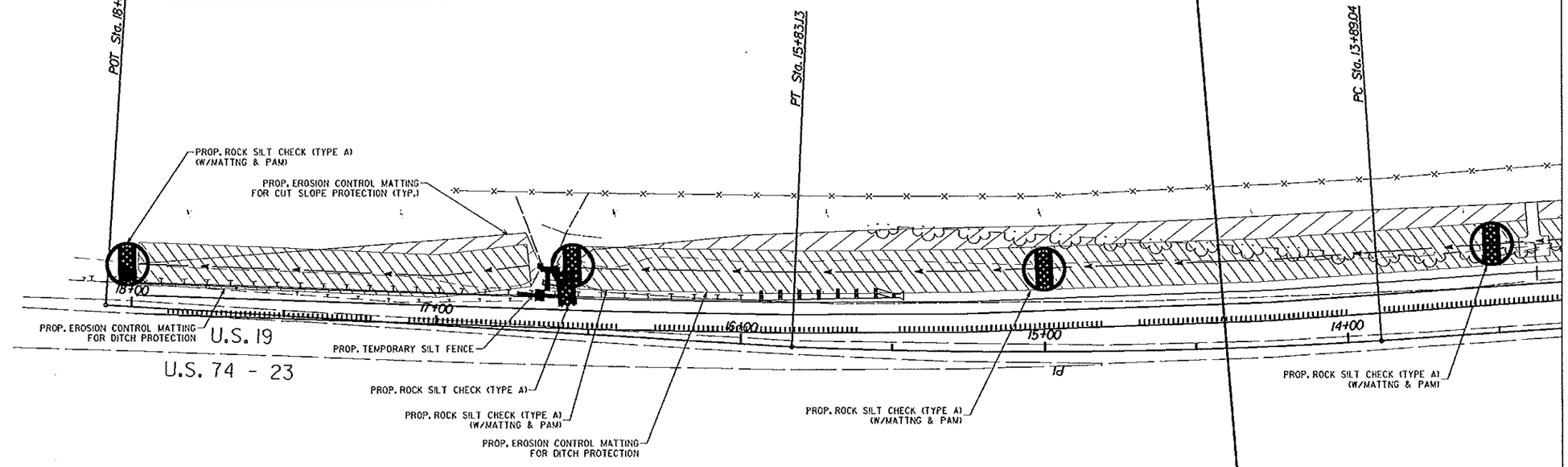
2012 STANDARD DRAWINGS

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		

DISTURBED AREA
41,383 SF

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.

MATCH TO SHEET EC-1



INSTALL MATTING FOR EROSION CONTROL IN THE PROPOSED DITCH LINE.

For Slopes Excavated Greater Than 10 feet Install Matting for Erosion Control on Entire Slope as Work Allows.

SOIL STABILIZATION TIMEFRAMES

SITE DESCRIPTION	*STABILIZATION TIME*	*TIMEFRAME EXCEPTIONS*
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.

MATCH TO SHEET EC-1

JEFFREY E. ALSPAUGH
LEVEL IIIA NAME

678
LEVEL IIIA CERTIFICATION NO.

REVISIONS

8/17/99

19-SEP-2012 11:12
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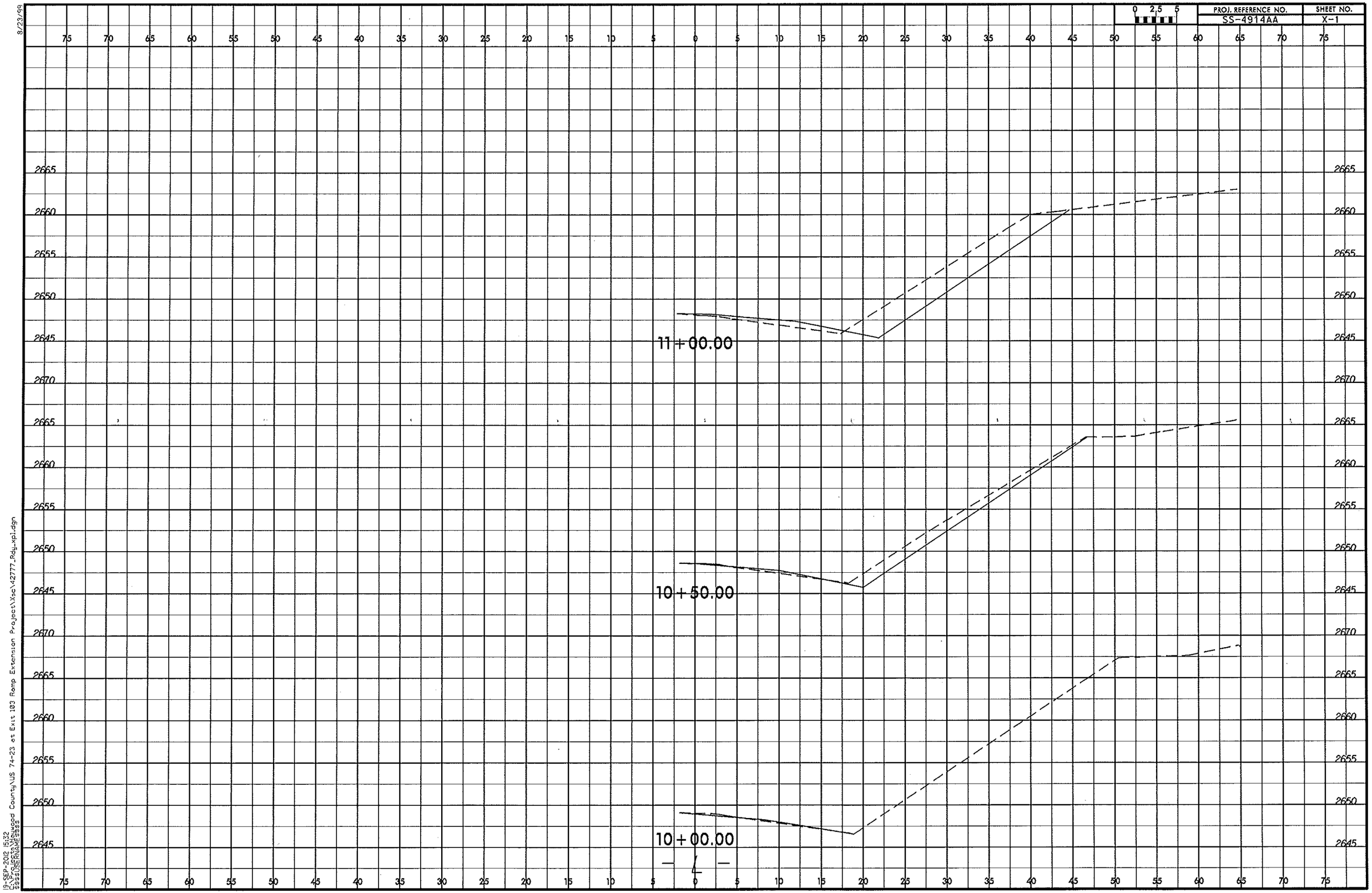

8/23/99

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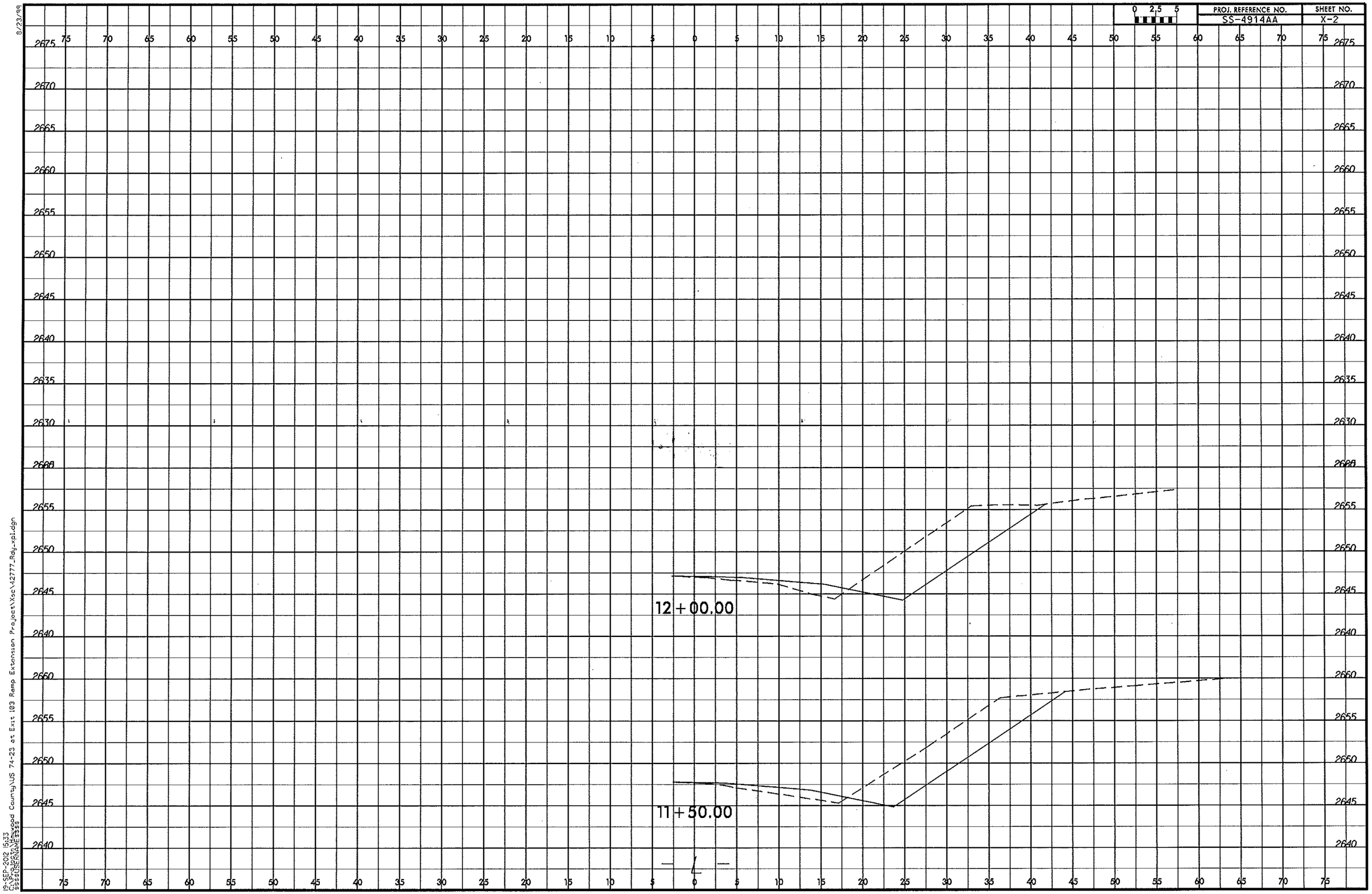

8/23/99

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8/23/99

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	SS-4914AA	X-3

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13+50.00

13+36.78

13+00.00

12+50.00

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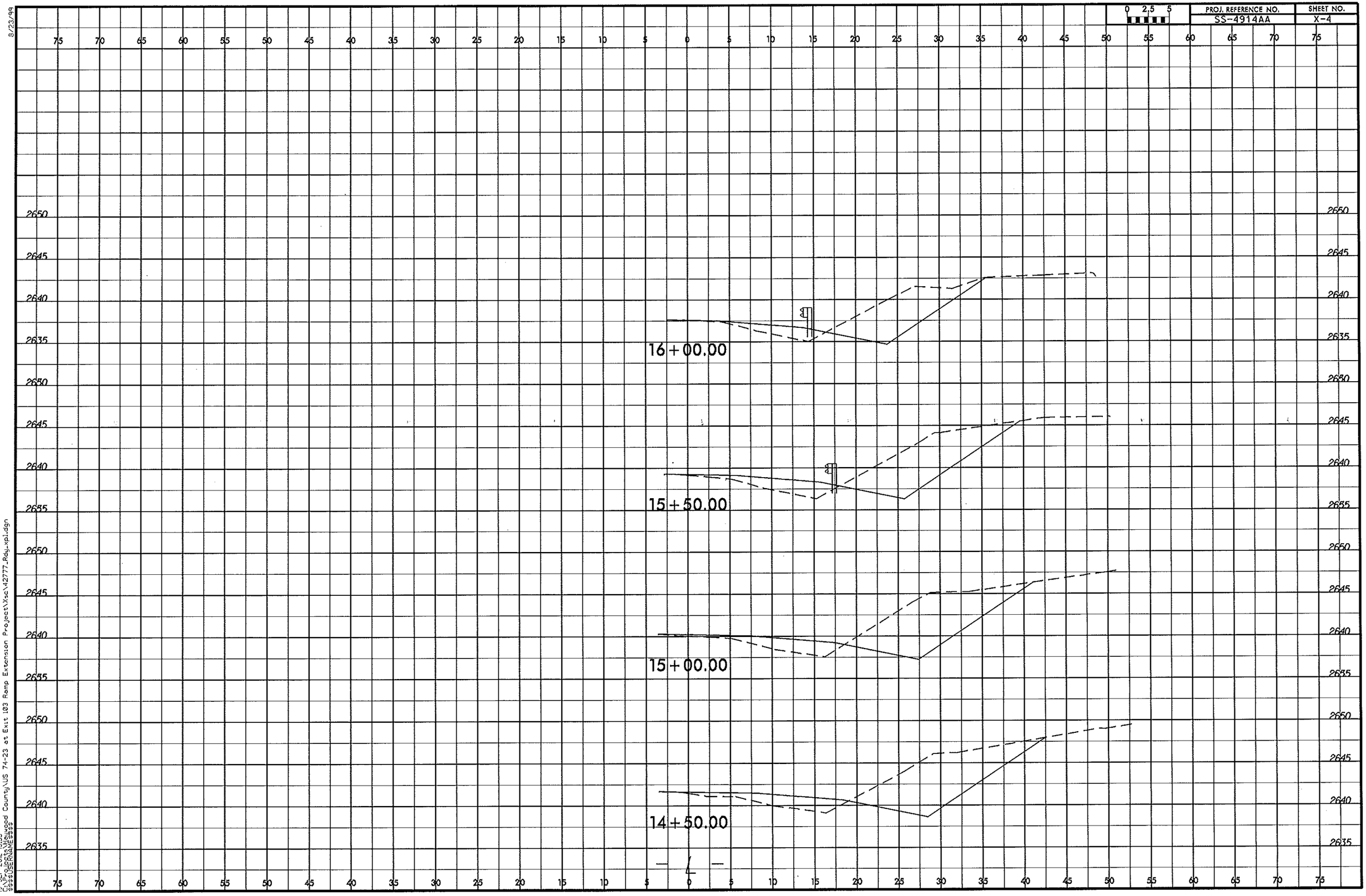

8/23/99

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8/23/99

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	SS-4914AA	X-5

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2645
2640
2635
2630

17+50.00

2645
2640
2635

17+00.00

2650
2645
2640
2635
2630

16+64.27

2688
2645
2640
2635
2630

16+50.00

19-SEP-2012 15:36
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