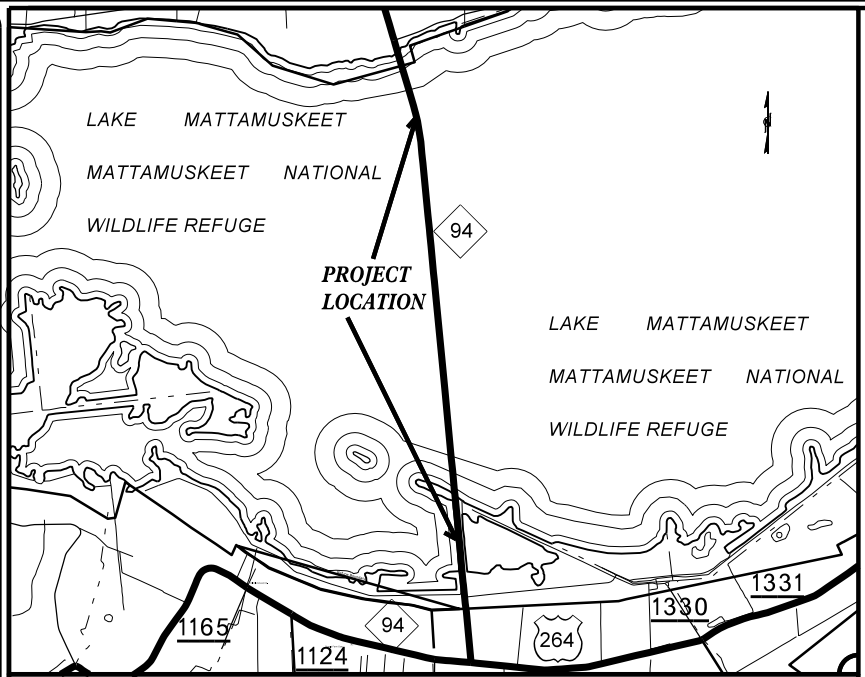


STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	15001.1048010	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

STATE OF NORTH CAROLINA
 DIVISION OF HIGHWAYS
HYDE COUNTY

LOCATION: ALONG NC 94 OVER LAKE MATTAMUSKEET

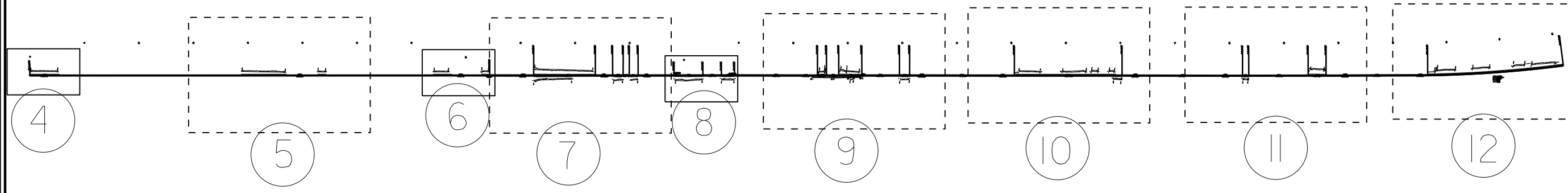
TYPE OF WORK: SHORLINE STABILIZATION



VICINITY MAP



LAKE MATTAMUSKEET
 NATIONAL WILDLIFE REFUGE



LAKE MATTAMUSKEET
 NATIONAL WILDLIFE REFUGE

CONTRACT: DA00340 **WBS ELEMENT: 15001.1048010**

PROJECT LENGTH

TOTAL PROJECT LENGTH = 2.66 MILES

Prepared in the Office of:
DIVISION OF HIGHWAYS
 113 Airport Drive, Suite 100, Edenton NC, 27932

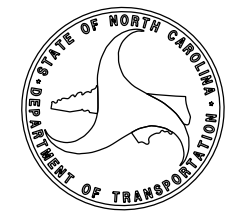
2018 STANDARD SPECIFICATIONS

LETTING DATE:

W. B. HOBBS, PE
 DIVISION PROJECT ENGINEER

CHRIS SLACHTA
 DIVISION PROPOSALS ENGINEER

S. P. FENWICK, PLS
 DIVISION DESIGN ENGINEER



02-FEB-2018 08:26 C:\Users\sfenwick\Desktop\Projects\NC_94_Hyde\15001.1048010_D01_022117_sht.dgn sfenwick AT DICAD293661

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
Computed Property Corner	-----
Property Monument	□ ECM
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	----- M.L.B.
Proposed Wetland Boundary	----- M.L.B.
Existing Endangered Animal Boundary	----- E.A.B.
Existing Endangered Plant Boundary	----- E.P.B.
Existing Historic Property Boundary	----- H.P.B.
Known Contamination Area: Soil	☠-s-☠
Potential Contamination Area: Soil	☠-s-☠
Known Contamination Area: Water	☠-w-☠
Potential Contamination Area: Water	☠-w-☠
Contaminated Site: Known or Potential	☠☠

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	-----
False Sump	▽

RAILROADS:

Standard Gauge	-----
RR Signal Milepost	○
Switch	□
RR Abandoned	-----
RR Dismantled	-----

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

RIGHT OF WAY & PROJECT CONTROL:

Secondary Horiz and Vert Control Point	◆
Primary Horiz Control Point	○
Primary Horiz and Vert Control Point	●
Exist Permanent Easement Pin and Cap	◇
New Permanent Easement Pin and Cap	◇
Vertical Benchmark	⊠
Existing Right of Way Marker	△
Existing Right of Way Line	-----
New Right of Way Line	-----
New Right of Way Line with Pin and Cap	-----
New Right of Way Line with Concrete or Granite R/W Marker	-----
New Control of Access Line with Concrete CA Marker	-----
Existing Control of Access	-----
New Control of Access	-----
Existing Easement Line	----- E
New Temporary Construction Easement	----- E
New Temporary Drainage Easement	----- TDE
New Permanent Drainage Easement	----- PDE
New Permanent Drainage / Utility Easement	----- DUE
New Permanent Utility Easement	----- PUE
New Temporary Utility Easement	----- TUE
New Aerial Utility Easement	----- AUE

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	----- C
Proposed Slope Stakes Fill	----- F
Proposed Curb 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	□ CB
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	-----
U/G Power Line LOS B (S.U.E.*)	-----
U/G Power Line LOS C (S.U.E.*)	-----
U/G Power Line LOS D (S.U.E.*)	-----

TELEPHONE:

Existing Telephone Pole	●
Proposed Telephone Pole	○
Telephone Manhole	⊙
Telephone Pedestal	⊠
Telephone Cell Tower	⊠
U/G Telephone Cable Hand Hole	-----
U/G Telephone Cable LOS B (S.U.E.*)	-----
U/G Telephone Cable LOS C (S.U.E.*)	-----
U/G Telephone Cable LOS D (S.U.E.*)	-----
U/G Telephone Conduit LOS B (S.U.E.*)	-----
U/G Telephone Conduit LOS C (S.U.E.*)	-----
U/G Telephone Conduit LOS D (S.U.E.*)	-----
U/G Fiber Optics Cable LOS B (S.U.E.*)	-----
U/G Fiber Optics Cable LOS C (S.U.E.*)	-----
U/G Fiber Optics Cable LOS D (S.U.E.*)	-----

WATER:

Water Manhole	⊙
Water Meter	○
Water Valve	⊗
Water Hydrant	⊕
U/G Water Line LOS B (S.U.E.*)	-----
U/G Water Line LOS C (S.U.E.*)	-----
U/G Water Line LOS D (S.U.E.*)	-----
Above Ground Water Line	----- A/G Water

TV:

TV Pedestal	⊠
TV Tower	⊗
U/G TV Cable Hand Hole	-----
U/G TV Cable LOS B (S.U.E.*)	-----
U/G TV Cable LOS C (S.U.E.*)	-----
U/G TV Cable LOS D (S.U.E.*)	-----
U/G Fiber Optic Cable LOS B (S.U.E.*)	-----
U/G Fiber Optic Cable LOS C (S.U.E.*)	-----
U/G Fiber Optic Cable LOS D (S.U.E.*)	-----

GAS:

Gas Valve	◇
Gas Meter	⊕
U/G Gas Line LOS B (S.U.E.*)	-----
U/G Gas Line LOS C (S.U.E.*)	-----
U/G Gas Line LOS D (S.U.E.*)	-----
Above Ground Gas Line	----- A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊙
Sanitary Sewer Cleanout	⊕
U/G Sanitary Sewer Line	-----
Above Ground Sanitary Sewer	----- A/G Sanitary Sewer
SS Forced Main Line LOS B (S.U.E.*)	-----
SS Forced Main Line LOS C (S.U.E.*)	-----
SS Forced Main Line LOS D (S.U.E.*)	-----

MISCELLANEOUS:

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

SURVEY CONTROL SHEET

85



Beginning chain L description

```

=====
Point 1 Sta. 10+00.00 Bearing 1 to 2 N 5° 35' 15.74" W Dist. 4,216.90
Point 2 Sta. 52+16.90 Bearing 2 to 3 N 5° 31' 09.73" W Dist. 403.23
Point 3 Sta. 56+20.14 Bearing 3 to 4 N 5° 33' 19.09" W Dist. 565.42
Point 4 Sta. 61+85.55 Bearing 4 to 5 N 5° 48' 22.29" W Dist. 158.75
Point 5 Sta. 63+44.31 Bearing 5 to 6 N 5° 20' 37.83" W Dist. 96.02
Point 6 Sta. 64+40.32 Bearing 6 to 7 N 5° 21' 41.35" W Dist. 55.8710
Point 7 Sta. 64+96.20 Bearing 7 to 8 N 5° 42' 45.17" W Dist. 81.71
Point 8 Sta. 65+77.90 Bearing 8 to 9 N 5° 38' 53.64" W Dist. 329.85
Point 9 Sta. 69+07.75 Bearing 9 to 10 N 5° 35' 39.51" W Dist. 263.77
Point 10 Sta. 71+71.52 Bearing 10 to 11 N 5° 37' 44.45" W Dist. 169.82
Point 11 Sta. 73+41.34 Bearing 11 to 12 N 5° 43' 25.46" W Dist. 120.56
Point 12 Sta. 74+61.90 Bearing 12 to 13 N 5° 29' 46.04" W Dist. 760.05
Point 13 Sta. 82+21.95 Bearing 13 to 14 N 5° 32' 30.45" W Dist. 82.61
Point 14 Sta. 83+04.56 Bearing 14 to 15 N 5° 36' 27.76" W Dist. 112.60
Point 15 Sta. 84+17.16 Bearing 15 to 16 N 5° 39' 00.99" W Dist. 211.91
Point 16 Sta. 86+29.07 Bearing 16 to 17 N 5° 37' 21.10" W Dist. 345.31
Point 17 Sta. 89+74.38 Bearing 17 to 18 N 5° 34' 20.29" W Dist. 92.76
Point 18 Sta. 90+67.14 Bearing 18 to 19 N 5° 32' 35.30" W Dist. 960.50
Point 19 Sta. 100+27.64 Bearing 19 to 20 N 5° 34' 43.69" W Dist. 987.30
Point 20 Sta. 110+14.94 Bearing 20 to 21 N 5° 31' 00.33" W Dist. 1,104.44
Point 21 Sta. 121+19.37 Bearing 21 to 22 N 5° 52' 48.02" W Dist. 57.75
Point 22 Sta. 121+77.12 Bearing 22 to 23 N 5° 38' 30.32" W Dist. 544.13
Point 23 Sta. 127+21.25 Bearing 23 to 24 N 5° 32' 46.31" W Dist. 164.07
Point 24 Sta. 128+85.32 Bearing 24 to PC L-1 N 5° 46' 37.62" W Dist. 932.07
=====
    
```

**GRID COORDINATES
 FOR -L- ALIGNMENT**

Pt 1,	N	641491.6590,	E	2829475.0880
Pt 2,	N	645688.5240,	E	2829064.4910
Pt 3,	N	646089.8890,	E	2829025.7070
Pt 4,	N	646652.6500,	E	2828970.9710
Pt 5,	N	646810.5880,	E	2828954.9110
Pt 6,	N	646906.1895,	E	2828945.9685
Pt 7,	N	646961.8160,	E	2828940.7480
Pt 8,	N	647043.1180,	E	2828932.6150
Pt 9,	N	647371.3660,	E	2828900.1510
Pt 10,	N	647633.8760,	E	2828874.4380
Pt 11,	N	647802.8760,	E	2828857.7810
Pt 12,	N	647922.8380,	E	2828845.7570
Pt 13,	N	648679.3900,	E	2828772.9610
Pt 14,	N	648761.6160,	E	2828764.9830
Pt 15,	N	648873.6780,	E	2828753.9800
Pt 16,	N	649084.5600,	E	2828733.1160
Pt 17,	N	649428.2040,	E	2828699.2850
Pt 18,	N	649520.5240,	E	2828690.2780
Pt 19,	N	650476.5360,	E	2828597.4980
Pt 20,	N	651459.1590,	E	2828501.5180
Pt 21,	N	652558.4790,	E	2828395.3410
Pt 22,	N	652615.9230,	E	2828389.4250
Pt 23,	N	653157.4130,	E	2828335.9330
Pt 24,	N	653320.7140,	E	2828320.0760

Curve Data

 *

```

Curve L-1
P.I. Station 144+41.73 N 654,868.3698 E 2,828,155.4811
Delta = 6° 24' 39.43" (LT)
Degree = 0° 30' 50.21"
Tangent = 624.3490
Length = 1,247.3949
Radius = 11,148.1805
External = 17.4695
Long Chord = 1,246.7443
Mid. Ord. = 17.4422
P.C. Station 138+17.38 N 654,248.0452 E 2,828,226.2553
P.T. Station 150+64.78 N 655,476.9128 E 2,828,015.8846
C.C. = N 652,984.3220 E 2,817,149.9323
Back = N 6° 30' 31.91" W
Ahead = N 12° 55' 11.34" W
Chord Bear = N 9° 42' 51.62" W
    
```

PROJECT DATUM DESCRIPTION:

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY JOYNER KEENY, FOR MONUMENT "BL-2" WITH NAD 83/CORS 96 STATE PLANE GRID COORDINATES OF NORTHING:648822.18(ft) EASTING:2828778.48(ft) ELEVATION:4.11(ft) THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999887810

NOTE: ALL -BL- POINTS ARE BASELINE NCDOT TRAVERSE MONUMENTS. ALL BASELINE POINTS ARE 30" #5 REBAR WITH ALUMINUM TRAVERSE CAPS. NO OTHER POINTS SHOWN ARE SET UNLESS NOTED. ALL DISTANCES SHOWN ARE GROUND DISTANCES IN SURVEY FEET UNLESS OTHERWISE STATED. ALL COORDINATES AND ELEVATIONS ARE IN SURVEY FEET UNLESS OTHERWISE NOTED.

Chain BL contains: BL1 BL2 BL3

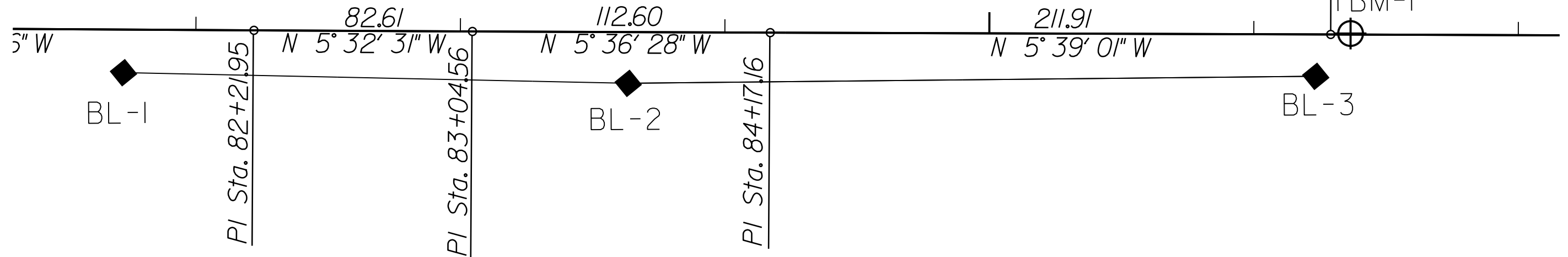
POINT	DESC.	NORTH	EAST	ELEV.	L STATION	OFFSET
BL1	BL-1	648631.9183	2828793.8739	3.98	81+72.69	16.27 RT
BL2	BL-2	648822.1780	2828778.4830	4.12	83+63.51	19.35 RT
BL3	BL-3	649080.5235	2828749.4095	4.08	86+23.45	15.82 RT

BENCHMARK DATA

 226 ELEVATION = 4.89
 N 649092 E 2828732
 STATION 86+36.59 0.38 LEFT
 TBM-IRAIL SPIKE IN PAVEMENT

TBM-1

PI Sta. 86+29.07

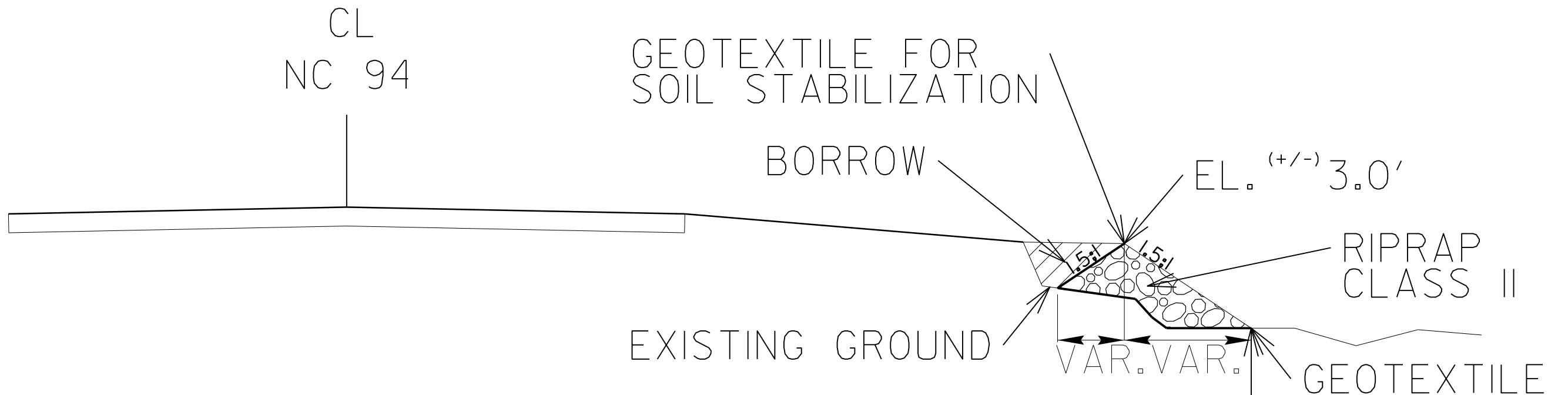


REVISIONS

8/17/99

31-JAN-2018 14:59 C:\Users\jfenwick\OneDrive\Documents\Projects\NC 94_Hyde\15001J048010_D1ddc.lc.dgn

TYPICAL



SEE PLAN SHEETS
FOR STATION & OFFSET
(NO OPEN WATER IMPACTS
BEYOND THIS POINT)

PROJECT NO.	SHEET NO.
15001.104801	3

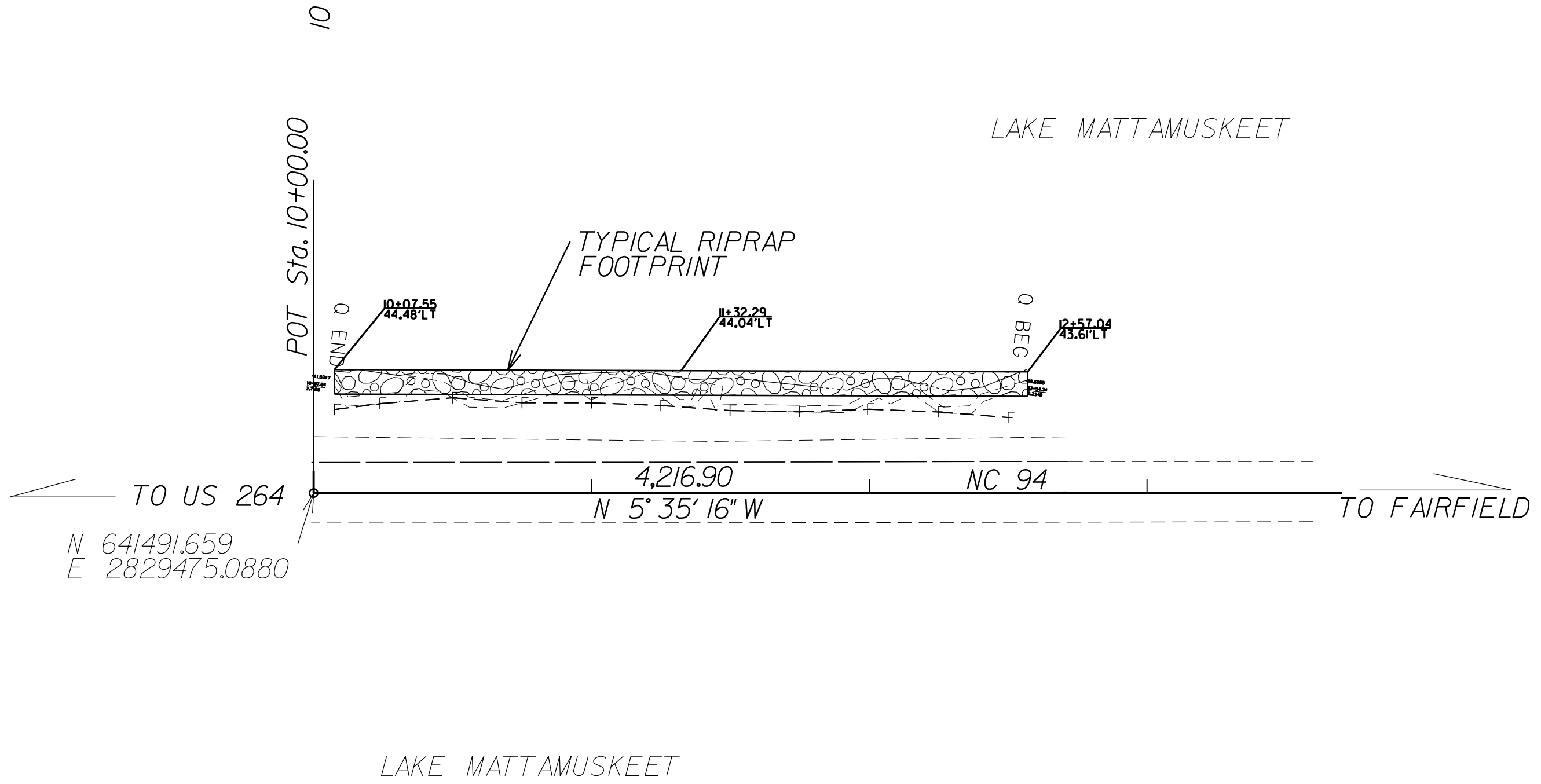
SUMMARY OF QUANTITIES

PROJECT NO	COUNTY	MAP NO	ROUTE	DESCRIPTION	TYP NO	LANES	LANE TYPE	FINAL SURFACE TESTING REQUIRED	WARM MIX ASPHALT REQUIRED	LENGTH	WIDTH	0000100000-N	0106000000-E	0196000000-E	0241000000-E	3635000000-E	4413000000-E	4457000000 -N	6084000000-E	
												MOBILIZATION	BORROW EXCAV	GEOTEXTILE SOIL STABILIZATION	GEN GRADING ITEM (SHOULDER & SLOPE RECONSTRUCTION)	RIP-RAP CLASS II	WORK ZONE ADV/GEN WARN SIGN	TEMP TRAFFIC CONTROL (SP)	SEEDING AND MULCHING	
											MI	FT	LS	CY	SY	SY	TON	SF	LS	AC
15001.1048010	Hyde	1	NC 94	SHOULDER & SLOPE RECONSTRUCTION	1	2	2WU	NO	NO	0.781	24	1	2,300	5,000	5,040	2,750	64	1	1.1	

8/17/99

REVISIONS

I:\JAN-2018_09\37
C:\Users\stefenw\OneDrive\Desktop\Projects\NC_94_Hyde\150011048010_D01_022017_ah4.dgn
Stanwick 01/11/2018 2:46A



N 641491.659
E 2829475.0880

LAKE MATTAMUSKEET

LAKE MATTAMUSKEET

4,216.90

NC 94

TYPICAL RIPRAP
FOOTPRINT

10+07.55
44.48' LT

11+32.29
44.04' LT

12+57.04
43.61' LT

POT Sta. 10+00.00

Q END

Q BEG

TO US 264

TO FAIRFIELD

N 5° 35' 16" W

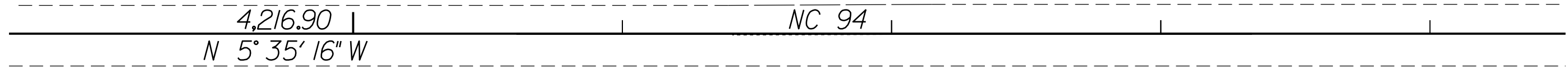
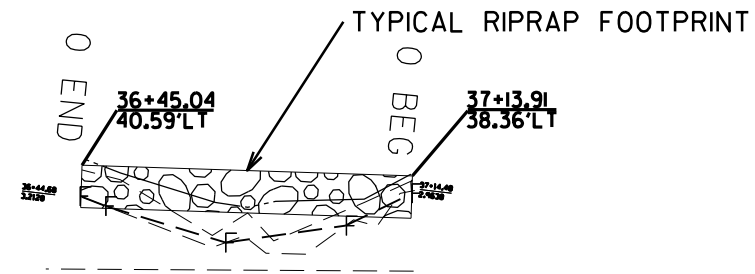
8/17/99

REVISIONS

19-JAN-2018 09:52
 C:\Users\stefanw\OneDrive\Documents\Projects\NC 94_Hyde\15001.1048010_001.022017.sh5.dgn

35

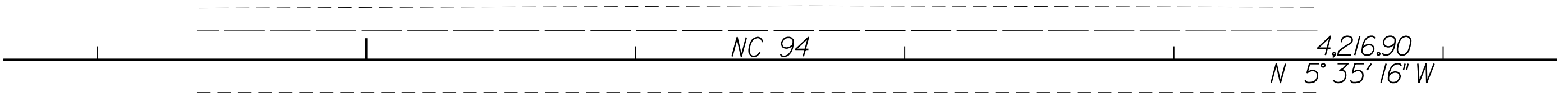
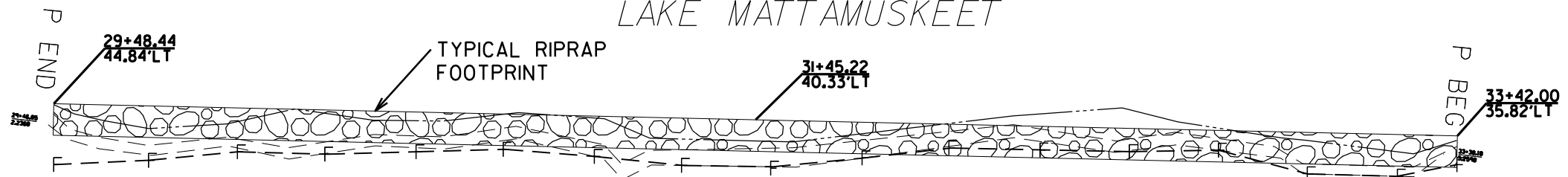
LAKE MATTAMUSKEET



LAKE MATTAMUSKEET

30

LAKE MATTAMUSKEET



LAKE MATTAMUSKEET

8/17/99

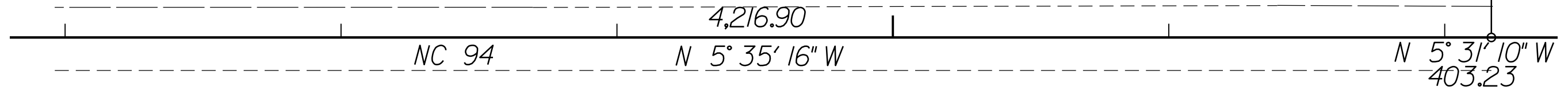
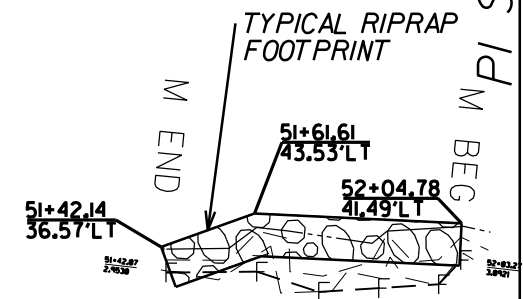
REVISIONS

19-JAN-2018 10:08
 C:\User\sfenwick\Desktop\Current Projects\NC 94_Hyde\15001.048010.D01.022017.sh6.dgn
 sfenwick



50

LAKE MATTAMUSKEET



PI Sta. 52+16.90

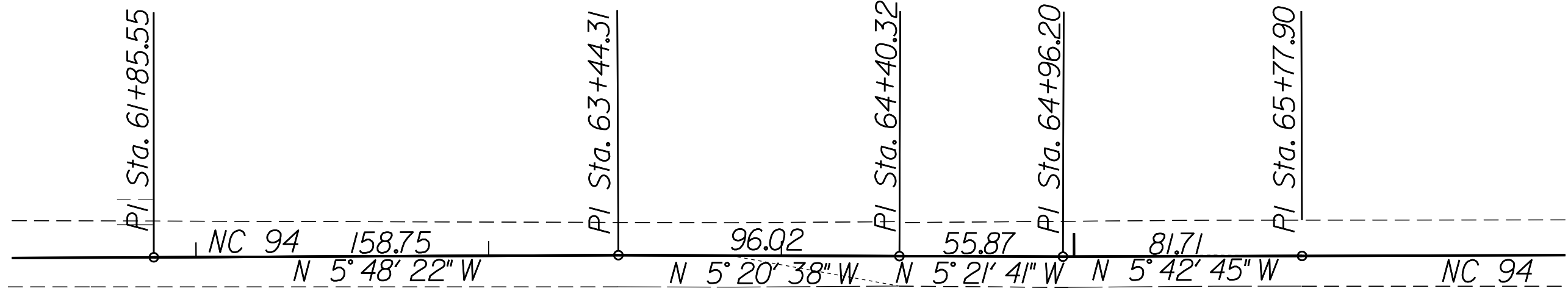
LAKE MATTAMUSKEET

8/17/99

LAKE MATTAMUSKEET



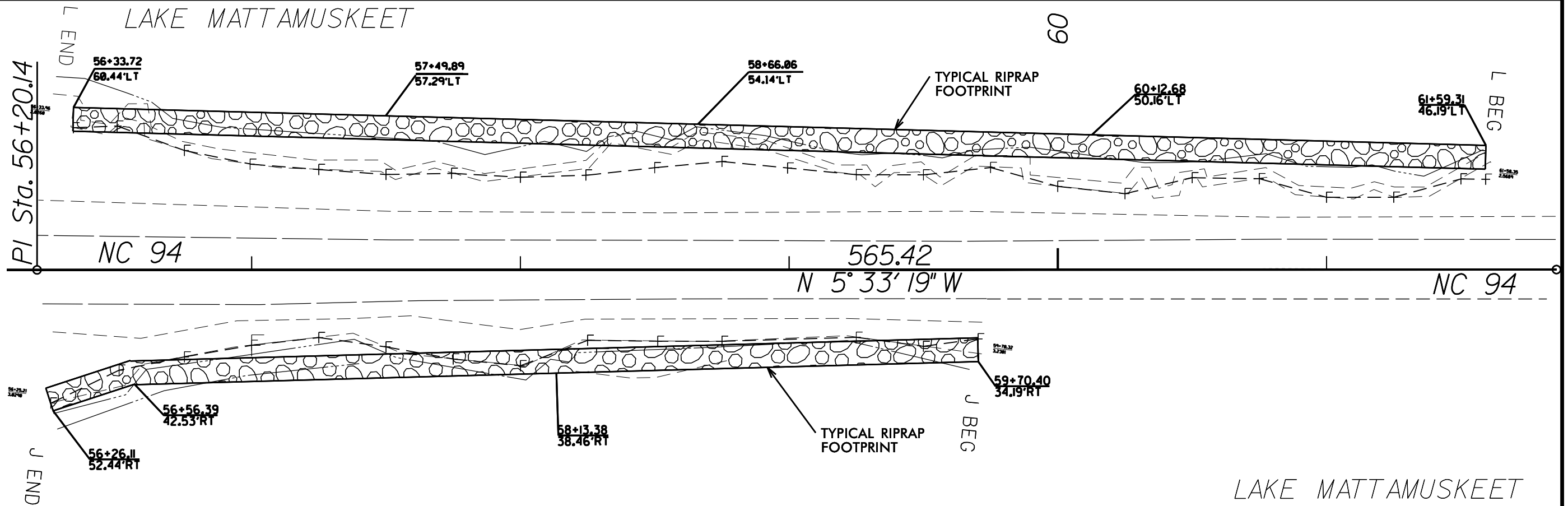
65



LAKE MATTAMUSKEET

LAKE MATTAMUSKEET

60



LAKE MATTAMUSKEET

REVISIONS

19-JAN-2018 10:31
 C:\User\vsf\onw\p\150011048010\150011048010_001_022017.sh7.dgn
 150011048010_001_022017.dwg

5/14/99

70

LAKE MATTAMUSKEET



PI Sta. 69+07.75

PI Sta. 71+71.52

PI Sta. 73+41.34

PI Sta. 74+61.90

N 5° 38' 54" W
329.85

NC 94

263.77

N 5° 35' 40" W

169.82

N 5° 37' 44" W

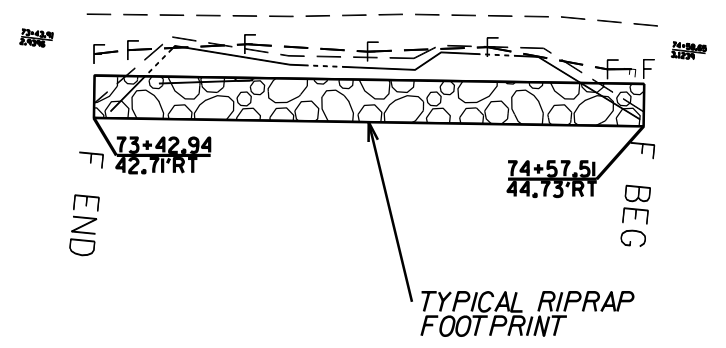
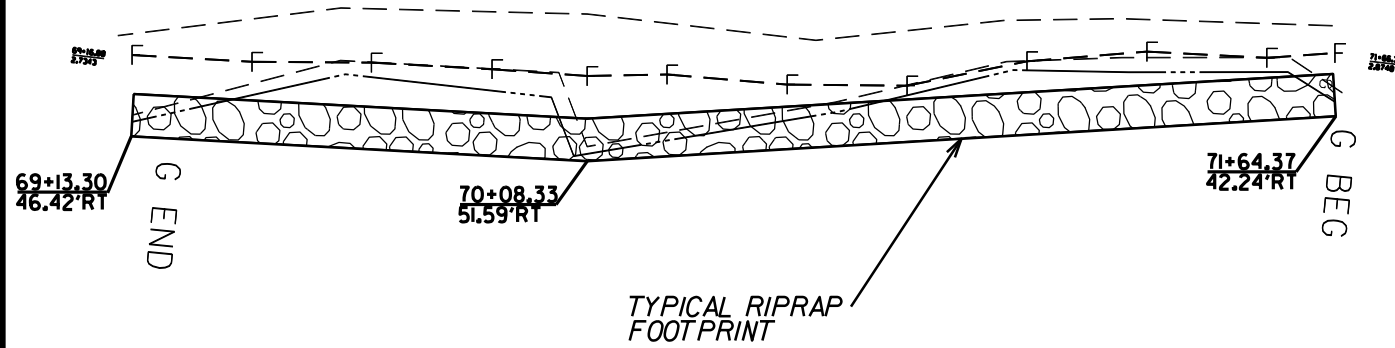
120.56

NC 94

N 5° 43' 26" W

N 5° 29' 46" W

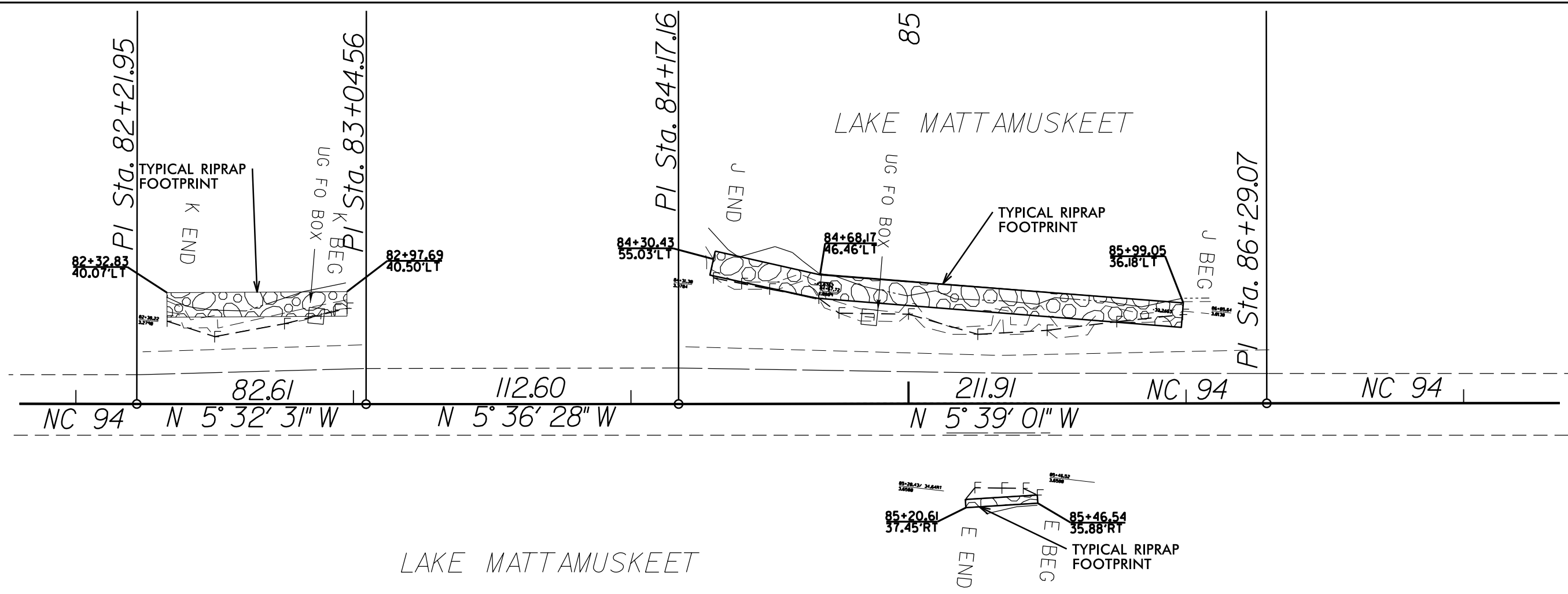
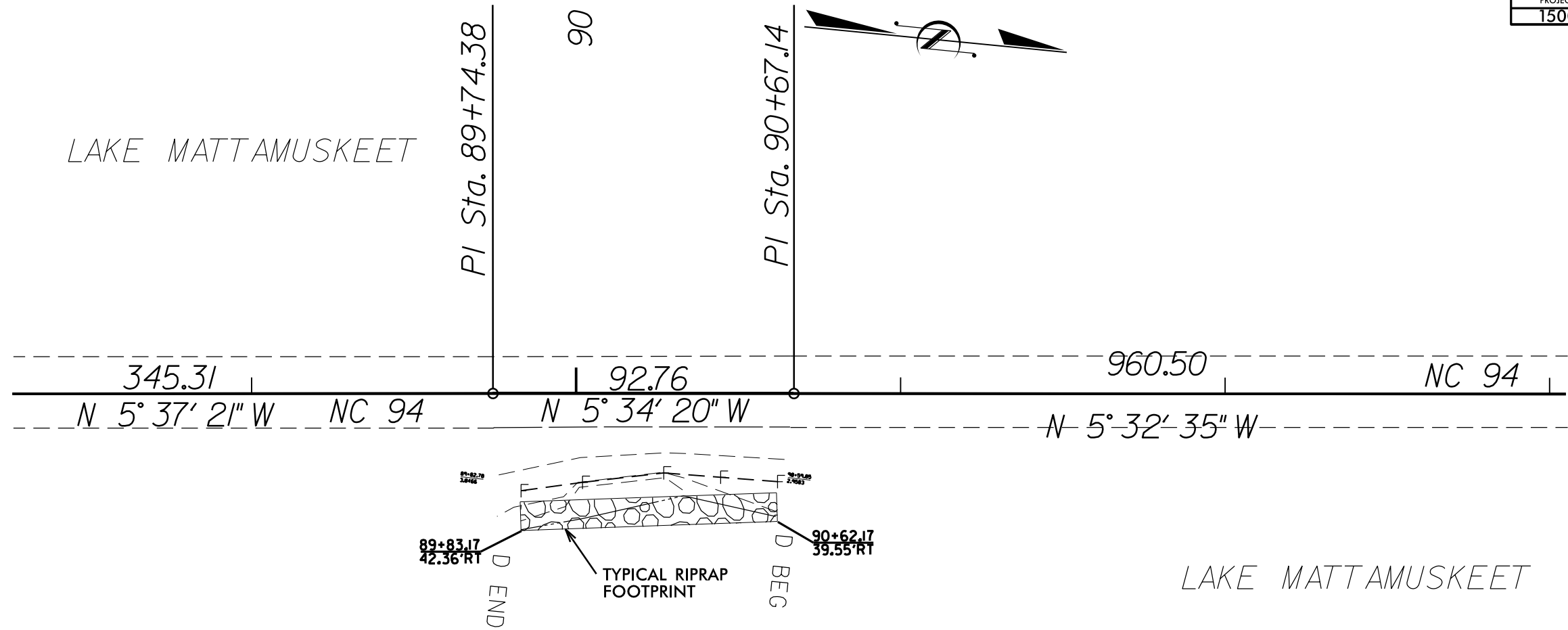
760.05



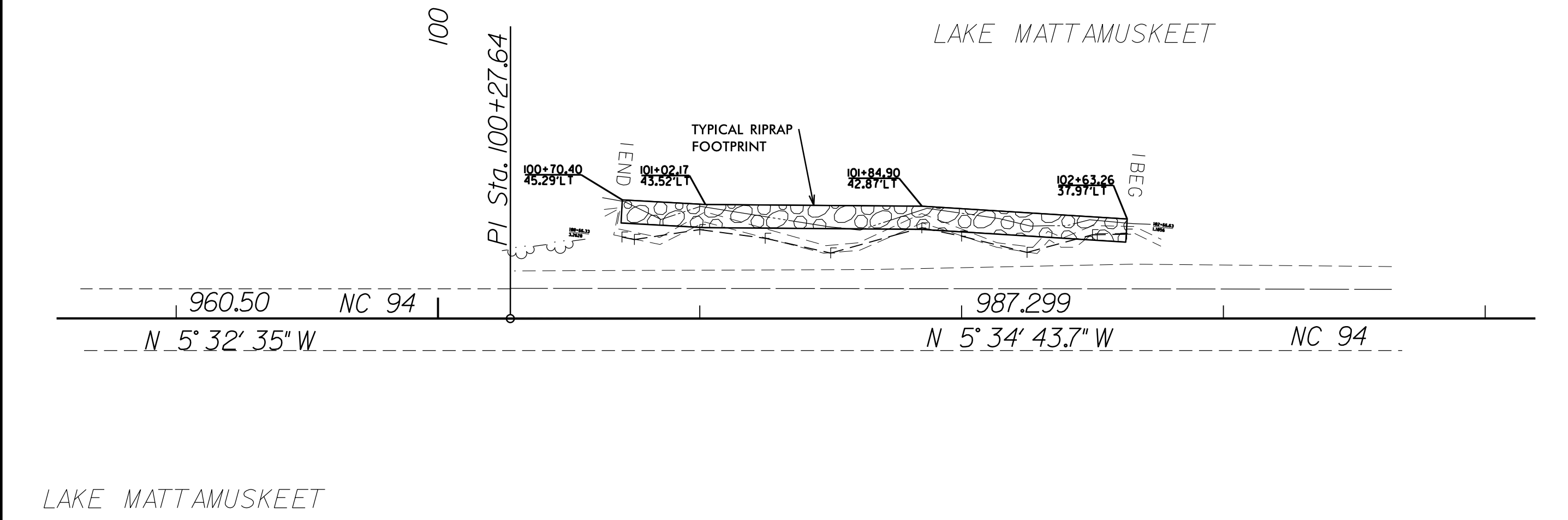
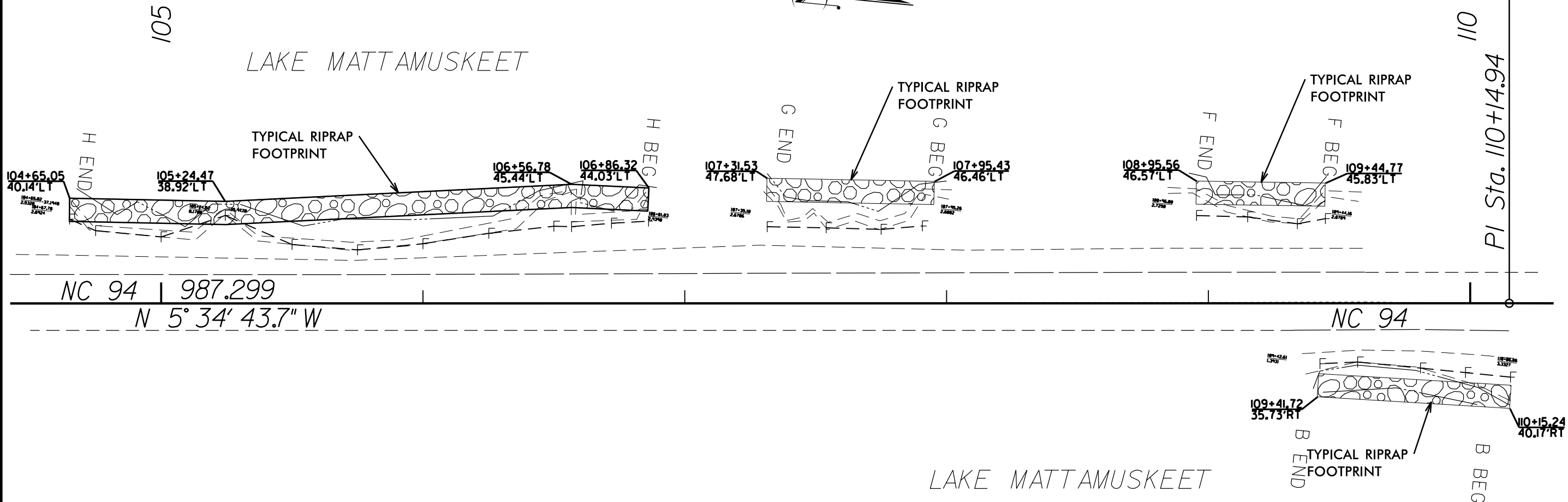
LAKE MATTAMUSKEET

8/17/99

REVISIONS



19-JAN-2018 11:19
 C:\Users\stfornw\OneDrive\Documents\Projects\NC 94_Hyde\15001.1048010_001.022017.sh9.dgn
 11/11/2017 10:54:56 AM



REVISIONS

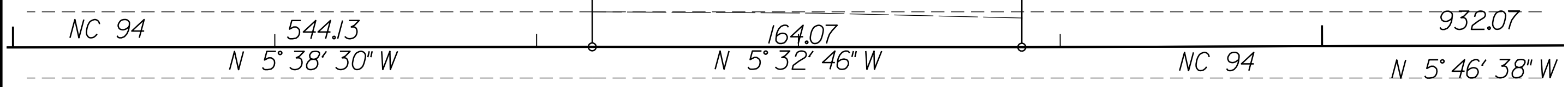
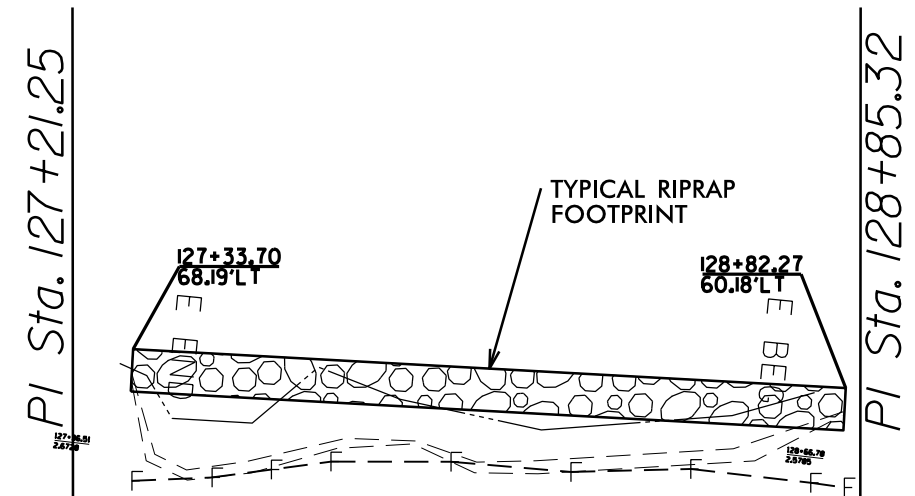
8/17/99
 19-JAN-2018 11:42
 C:\Users\stfeng\OneDrive\Documents\Projects\NC 94_Hyde\15001.1048010_001_022017.sh10.dgn

8/17/99

125

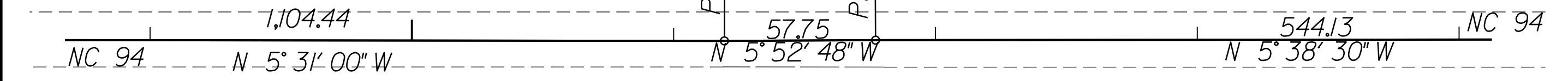
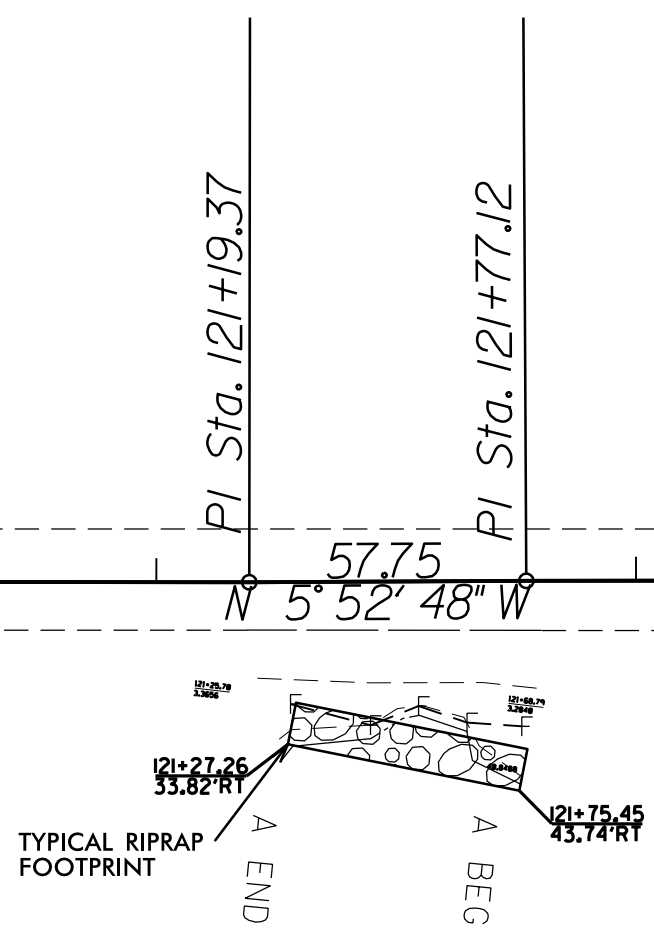
130

LAKE MATTAMUSKEET



120

LAKE MATTAMUSKEET



LAKE MATTAMUSKEET

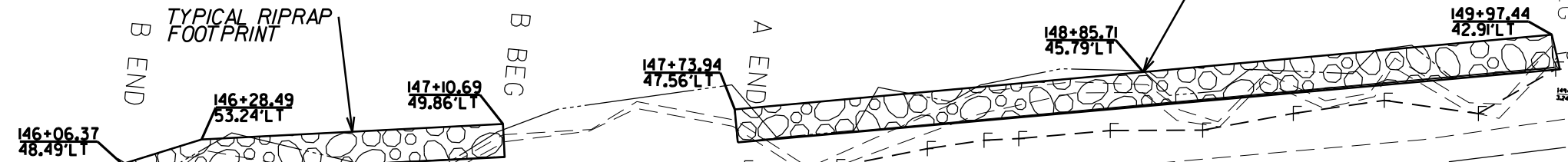
19-JAN-2018 14:56
 C:\Users\stefanw\OneDrive\Desktop\Projects\NC 94_Hyde\15001.1048010_001_022017.sh11.dgn
 11/11/2017 10:56:46 AM

145

150

LAKE MATTAMUSKEET

PT Sta. 150+64.78



NC 94

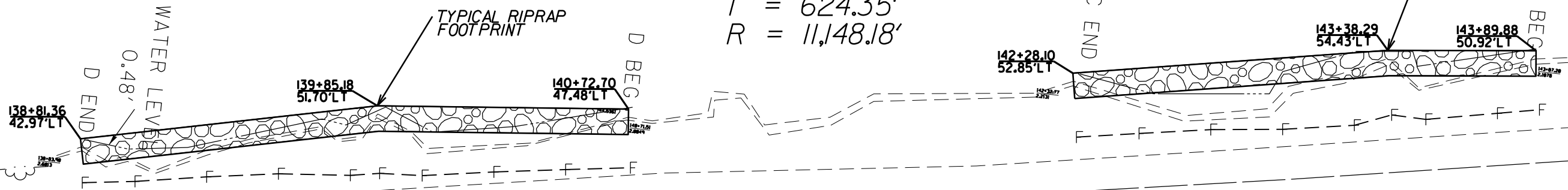
LAKE MATTAMUSKEET

LAKE MATTAMUSKEET

140

PI Sta 144+41.73
 $\Delta = 6^\circ 24' 39.4''$ (LT)
 $D = 0^\circ 30' 50.2''$
 $L = 1,247.39'$
 $T = 624.35'$
 $R = 11,148.18'$

PC Sta. 138+17.38



NC 94

NC 94

LAKE MATTAMUSKEET

REVISIONS

19-JAN-2018 13:10 C:\Users\jfernan\OneDrive\Documents\Projects\NC 94_Hyde\15001.1048010_001_022017.sh12.dgn
 8/17/99