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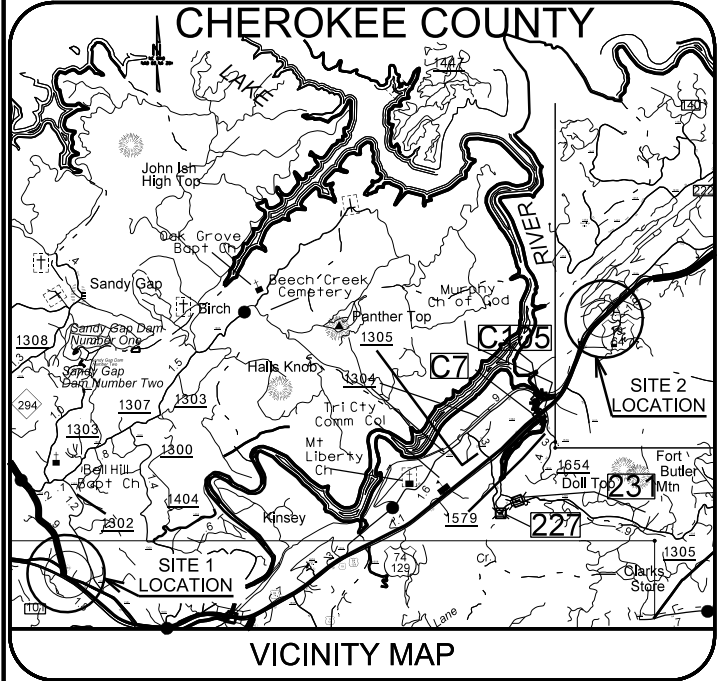
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with their signature on that page.**

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09/08/17

See Sheet 1-A For Index of Sheets

CHEROKEE COUNTY



VICINITY MAP

STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

CHEROKEE COUNTY

SITE 1 LOCATION: ALONG US HWY 74/19/129 AT INTERSECTION WITH NC HWY 294

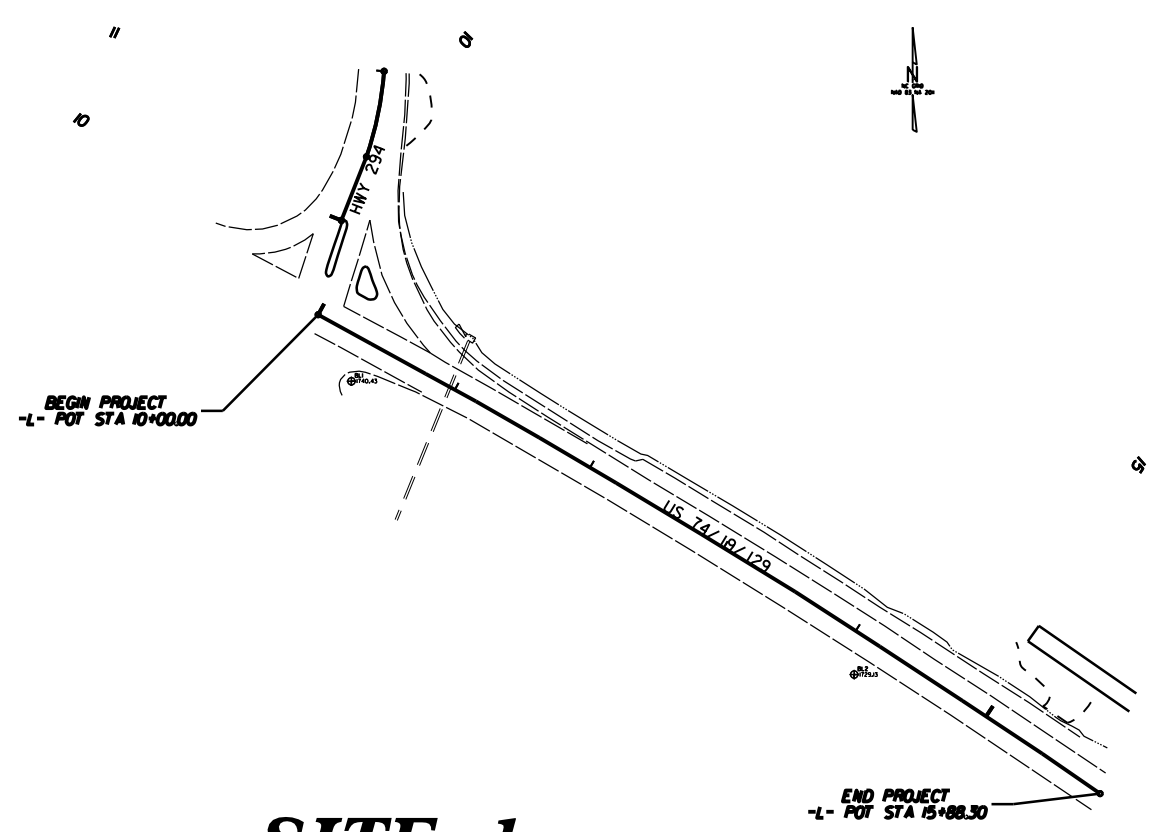
SITE 1 TYPE OF WORK: GRADING, DRAINAGE AND PAVING

SITE 2 LOCATION: ALONG US HWY 19/64 ADJACENT TO RIB COUNTRY RESTAURANT

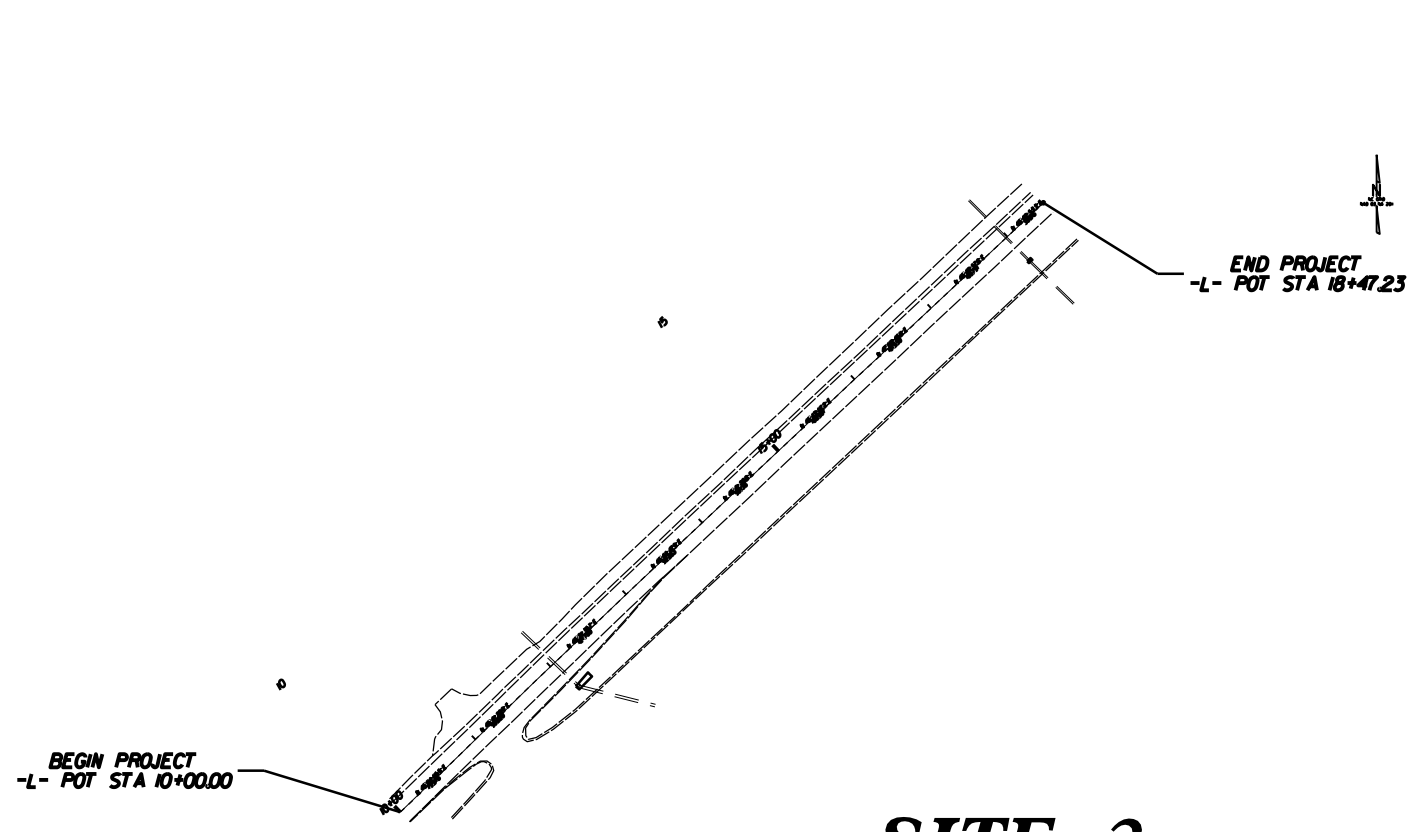
SITE 2 TYPE OF WORK: GRADING AND PAVING

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS: 47415	1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

WBS ELEMENT: 47415

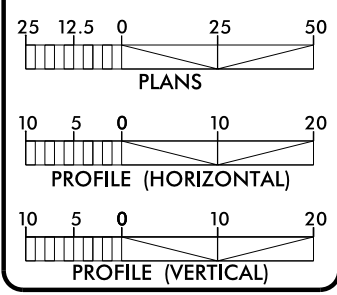


SITE 1



SITE 2

GRAPHIC SCALES



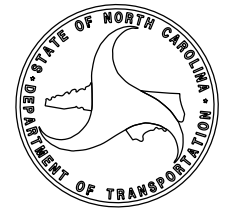
PROJECT LENGTH

SITE 1	0.11 MILES
SITE 2	0.16 MILES

Prepared In the Office of:
DIVISION OF HIGHWAYS
 191 Robbinsville Rd., Andrews NC, 28901

2012 STANDARD SPECIFICATIONS
 RIGHT OF WAY DATE:
 09/31/17
 LETTING DATE:
 12/12/17

ANDY RUSSELL, P.E.
 PROJECT ENGINEER
 ALAN R BROWN
 PROJECT DESIGN ENGINEER



21-SEP-2017 12:41
 C:\Users\mcorr\Desktop\294-2\PROJ\DGN\TITLE\294\TITLE.Rdy...dsn.dgn
 AT DIV14-304603L

CONTRACT: DN00608

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

INDEX OF SHEETS

1	TITLE SHEET
1A	INDEX OF SHEETS, GENERAL NOTES AND LIST OF STANDARDS
2	CONVENTIONAL SYMBOLS
2A	SURVEY CONTROL SHEET SITE 1
3-3A	TYPICAL SECTIONS
3B	SUMMARY OF EARTHWORK & DRAINAGE SITE 1
4	PLAN SHEET SITE 1
5-6	PLAN SHEETS SITE 2
PM1-PM4	PAVEMENT MARKING PLANS
EC1-EC6	EROSION CONTROL PLANS
X0-X05	CROSS SECTIONS
P1-P01	PROFILE SHEETS

GENERAL NOTES

- GENERAL NOTES: 2018 SPECIFICATIONS
EFFECTIVE: 01-16-2018
- CARE SHALL BE TAKEN TO PREVENT DAMAGE TO EXISTING UTILITIES DURING CONSTRUCTION. ANY DAMAGE TO THESE UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY.

LIST OF ROADWAY STANDARDS

2018 ROADWAY 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 16, 2018 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

STD. NO.	TITLE
DIVISION 2 - EARTHWORK	
200.03	Method of Clearing - Method III
225.02	Guide for Grading Subgrade
225.03	Deceleration and Acceleration Lanes
225.04	Method of Obtaining Superelevation
DIVISION 3 - PIPE CULVERTS	
300.01	Method of Pipe Installation
DIVISION 5 - SUBGRADE, BASES AND SHOULDERS	
560.01	Method of Shoulder Construction
DIVISION 6 - ASPHALT BASES AND PAVEMENTS	
665.01	Asphalt Shoulders - Milled Rumble Strips
DIVISION 7 - CONCRETE PAVEMENTS AND SHOULDERS	
700.05	Tying Proposed Pavement to Existing Pavement
DIVISION 8 - INCIDENTALS	
840.14	Concrete Drop Inlet - 12" thru 30" Pipe
840.22	Frames and Wide Slot Sag Grates
846.01	Concrete Curb, Gutter and Curb & Gutter
846.02	Drop Inlet Installation in Expressway Gutter
DIVISION 11 - WORK ZONE TRAFFIC CONTROL	
1101.01	Detail Drawing for Two Way Divided Work Zone Warning Signs
1101.04	Temporary Shoulder Closures
DIVISION 12 - PAVEMENT MARKINGS, MARKERS AND DELINEATION	
1205.01	Line Types and Offsets
1253.01	Snowplowable Raised Pavement Markers
DIVISION 16 - EROSION CONTROL AND ROADSIDE DEVELOPEMENT	
1605.01	Temporary Silt Fence
1632.03	Rock Inlet Sediment Trap Type C
1631.01	Matting Installation
1640.01	Coir Fiber Baffle

04/16/11

Note: Not to Scale

*S.U.E. = Subsurface Utility Engineering

CONVENTIONAL PLAN SHEET SYMBOLS

BOUNDARIES AND PROPERTY:

State Line	-----
County Line	-----
Township Line	-----
City Line	-----
Reservation Line	-----
Property Line	-----
Existing Iron Pin	⊙
Property Corner	-----
Property Monument	⊠
Parcel/Sequence Number	Ⓣ
Existing Fence Line	-x-x-x-
Proposed Woven Wire Fence	○
Proposed Chain Link Fence	⊠
Proposed Barbed Wire Fence	◇
Existing Wetland Boundary	W.B.
Proposed Wetland Boundary	W.B.
Existing Endangered Animal Boundary	E.A.B.
Existing Endangered Plant Boundary	E.P.B.
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	W.B.
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 R/W Marker	⊙
Proposed Control of Access Line with Concrete C/A 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	-----
Proposed Permanent Easement with Iron Pin and Cap Marker	⊙

ROADS AND RELATED FEATURES:

Existing Edge of Pavement	-----
Existing Curb	-----
Proposed Slope Stakes Cut	-----
Proposed Slope Stakes Fill	-----
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	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	⊙
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	A/G Water

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	A/G Gas

SANITARY SEWER:

Sanitary Sewer Manhole	⊙
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

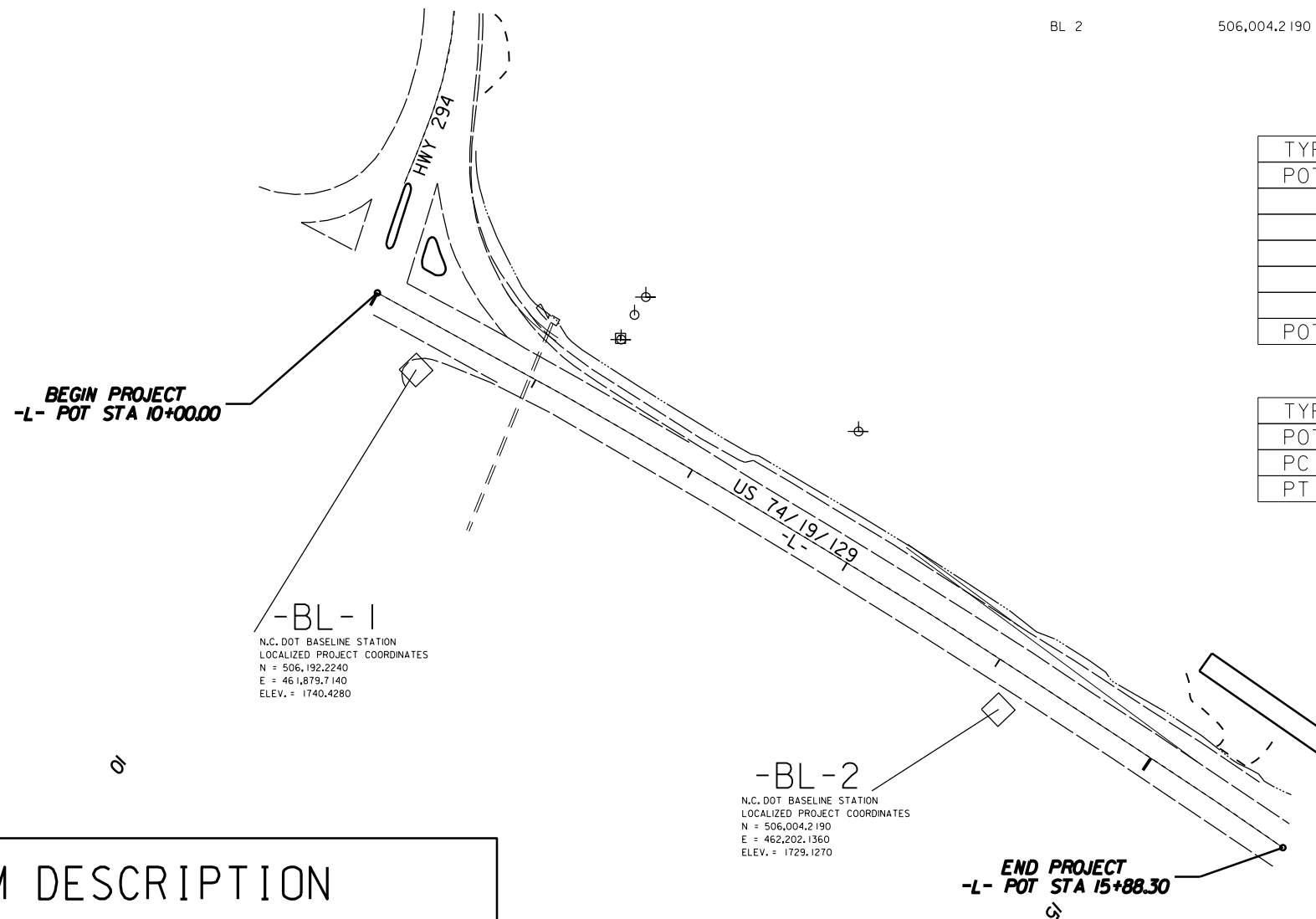
MISCELLANEOUS:

Utility Pole	⊙
Utility Pole with Base	⊠
Utility Located Object	⊙
Utility Traffic Signal Box	⊠
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	AATUR
End of Information	E.O.I.

SURVEY CONTROL SHEET SITE 1



BL POINT	NORTH	EAST	ELEVATION	STATION -L-	OFFSET
BL 1	506,192.2240	461,879.7140	1740.4280	10+39.31	27.14 RT
BL 2	506,004.2190	462,202.1360	1729.1270	14+14.42	24.00 RT



FINAL -L-

TYPE	STATION	NORTH	EAST
POT	10+00.00	506,234.9280	461,858.3690
	11+00.00	506,186.7942	461,946.0225
	12+00.00	506,136.9232	462,032.6929
	13+00.00	506,085.4048	462,118.3991
	14+00.00	506,032.2027	462,203.0636
	15+00.00	505,977.3579	462,286.6814
POT	15+88.30	505,927.8590	462,359.7980

FINAL -Y-

TYPE	STATION	NORTH	EAST
POT	10+00.00	506,295.3840	461,873.2640
PC	10+43.88	506,336.2030	461,889.3530
PT	11+00.00	506,391.0267	461,900.6491

-BL-1
 N.C. DOT BASELINE STATION
 LOCALIZED PROJECT COORDINATES
 N = 506,192.2240
 E = 461,879.7140
 ELEV. = 1740.4280

-BL-2
 N.C. DOT BASELINE STATION
 LOCALIZED PROJECT COORDINATES
 N = 506,004.2190
 E = 462,202.1360
 ELEV. = 1729.1270

DATUM DESCRIPTION

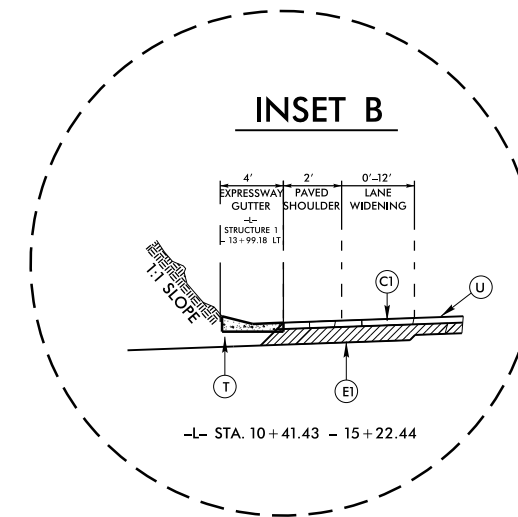
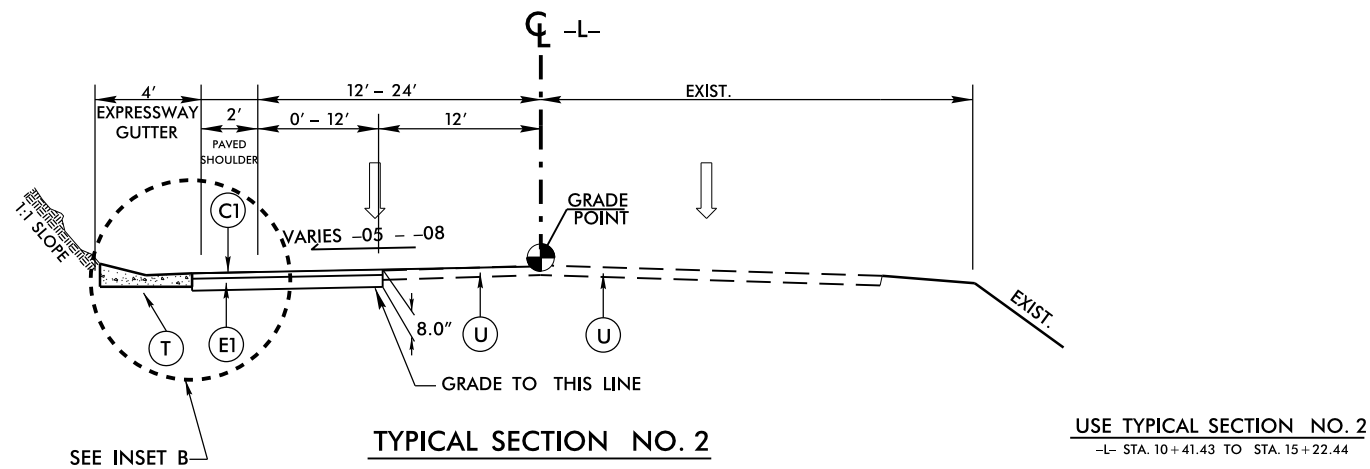
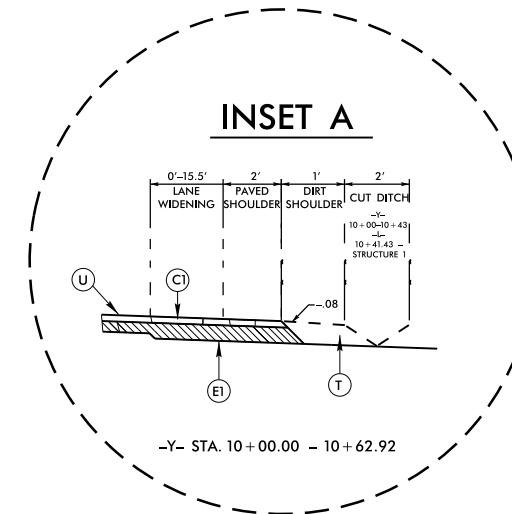
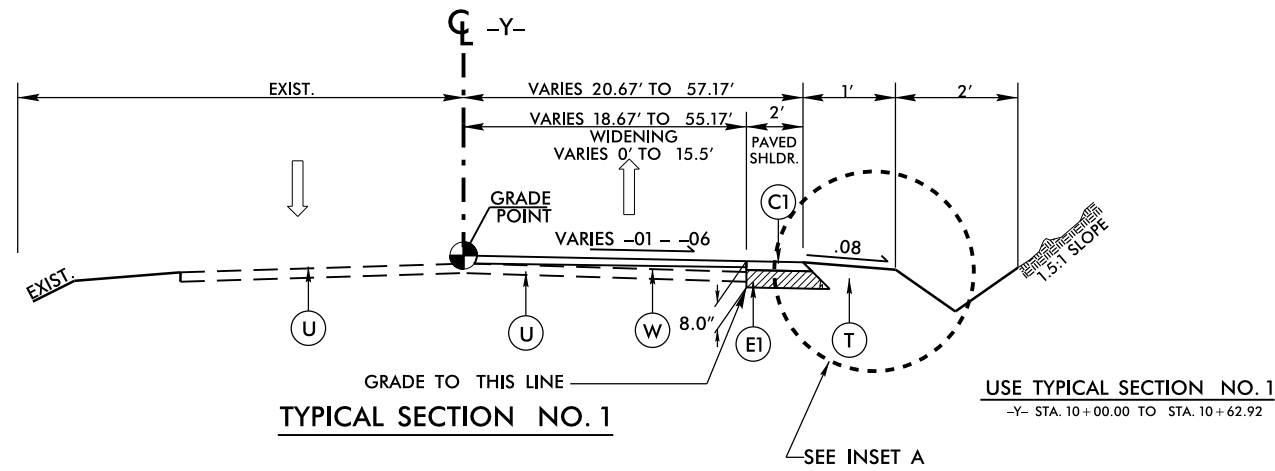
THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCDOT FOR MONUMENT "BL1"

WITH NAD 83/NA 2011 STATE PLANE GRID COORDINATES OF
 NORTHING: 506192.2240(ft) EASTING: 461879.140(ft)
 ELEVATION: 1740.4280(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.999806079

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "BL1" TO -L- STATION 10+00.00 IS
 N 26° 33' 27" W 47.74'

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

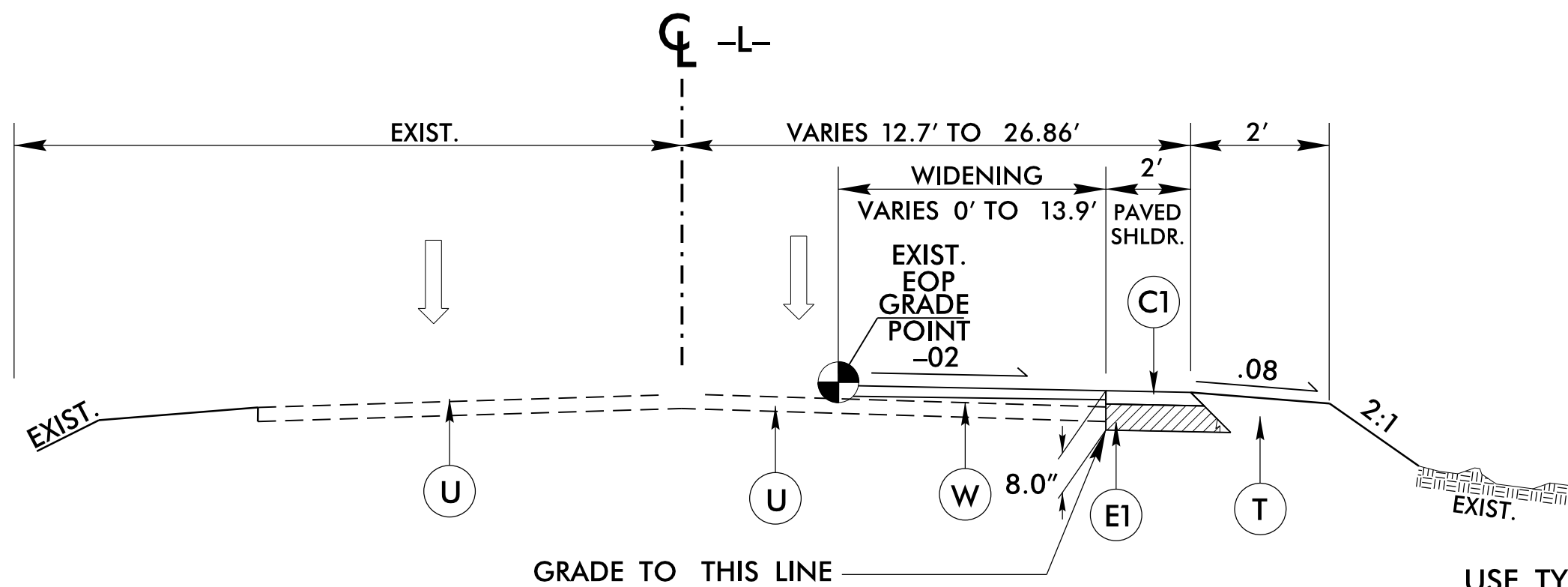


PAVEMENT SCHEDULE	
C1	PROP. VAR. DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE S9.5B, AT AN AVERAGE RATE OF 112 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 1 1/2" IN DEPTH.
E1	PROP. VAR. DEPTH ASPHALT CONCRETE BASE COURSE, TYPE B25.0B, AT AN AVERAGE RATE OF 114 LBS. PER SQ. YD. PER 1" DEPTH. TO BE PLACED IN LAYERS NOT LESS THAN 3" IN DEPTH OR GREATER THAN 5 1/2" IN DEPTH.
W	PROP. VAR. DEPTH ASPHALT CONCRETE WEDGING COURSE, TYPE I19 AT AN AVERAGE RATE OF 114 LBS. PER SQ. FT. PER 3" DEPTH. TO BE PLACED IN LAYERS NOT TO EXCEED 3" IN DEPTH.
T	EARTH MATERIAL
U	EXISTING PAVEMENT

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

SITE 1

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GRADE TO THIS LINE
TYPICAL SECTION NO. 1

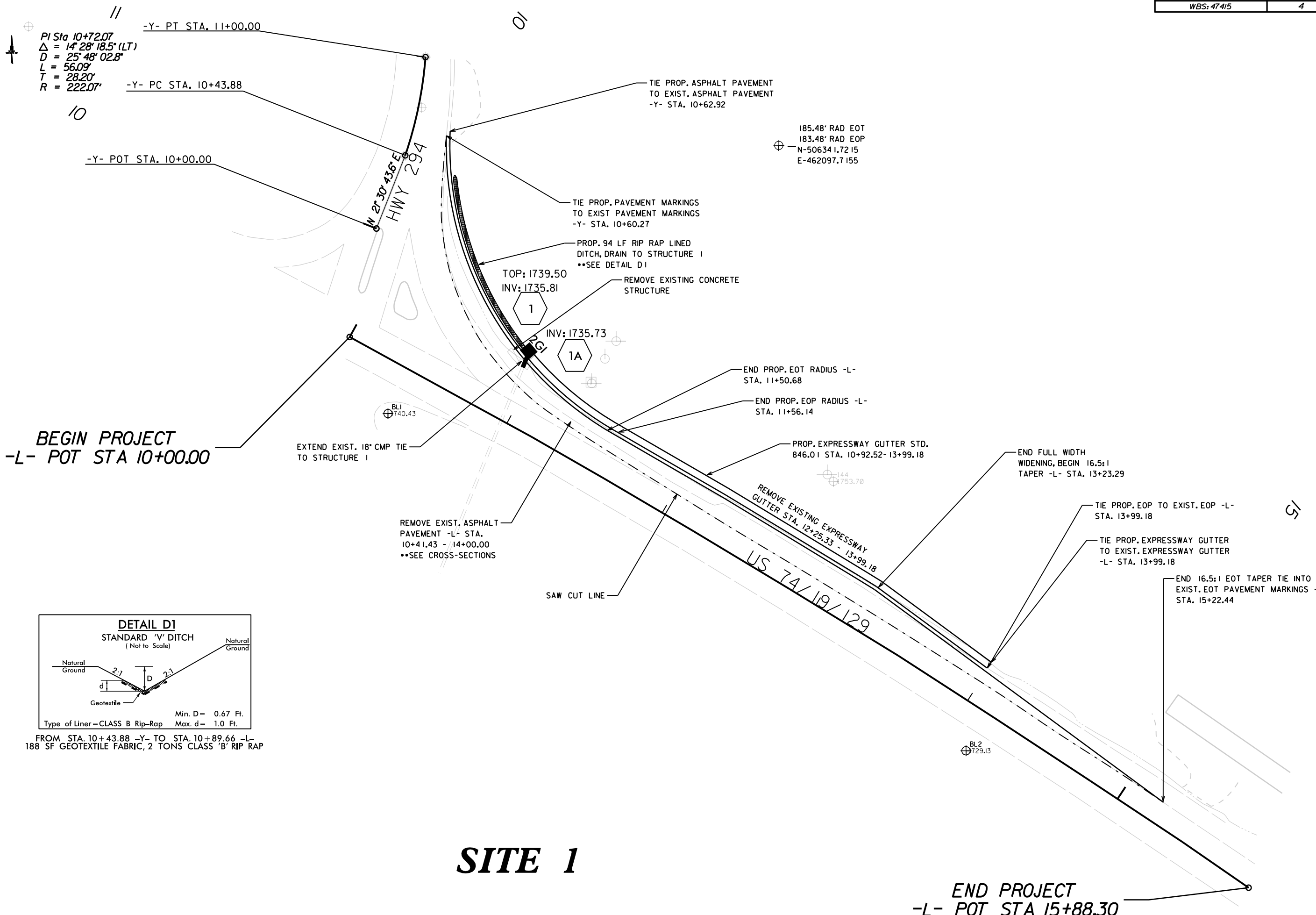
USE TYPICAL SECTION NO. 1
-L- STA. 11+40.00 TO STA. 17+30.45

PAVEMENT SCHEDULE	
C1	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 TO EXCEED 1 1/2" IN DEPTH.
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T	EARTH MATERIAL
U	EXISTING PAVEMENT

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

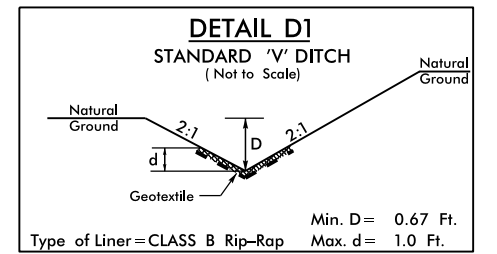
SITE 2

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PI Sta 10+72.07
 $\Delta = 14' 28" 18.5" (LT)$
 $D = 25' 48" 02.8"$
 $L = 56.09'$
 $T = 28.20'$
 $R = 222.07'$

-Y- PT STA. 11+00.00
 -Y- PC STA. 10+43.88
 -Y- POT STA. 10+00.00
BEGIN PROJECT
 -L- POT STA 10+00.00



FROM STA. 10+43.88 -Y- TO STA. 10+89.66 -L-
 188 SF GEOTEXTILE FABRIC, 2 TONS CLASS 'B' RIP RAP

SITE 1

END PROJECT
 -L- POT STA 15+88.30



FINAL -L-

TYPE	STATION	NORTH	EAST
POT	10+00.00	517,869.4610	486,485.9420
	11+00.00	517,938.9375	486,557.8651
	12+00.00	518,008.6165	486,629.5911
	13+00.00	518,077.6291	486,701.9600
	14+00.00	518,146.1873	486,774.7593
	15+00.00	518,214.7796	486,847.5267
	16+00.00	518,283.3328	486,920.3310
	17+00.00	518,351.3459	486,993.6400
	18+00.00	518,419.7776	487,066.5584
POT	18+47.23	518,452.1490	487,100.9470

RADII

LABEL	STATION	DISTANCE	NORTH	EAST	SIZE
R1	11+17.61	56.69' RT	517,910.6677	486,610.0657	42'
R2	11+65.41	46.58' RT	517,951.2917	486,637.2074	20'
R3	11+86.48	124.31' RT	517,909.3200	486,705.5979	100'

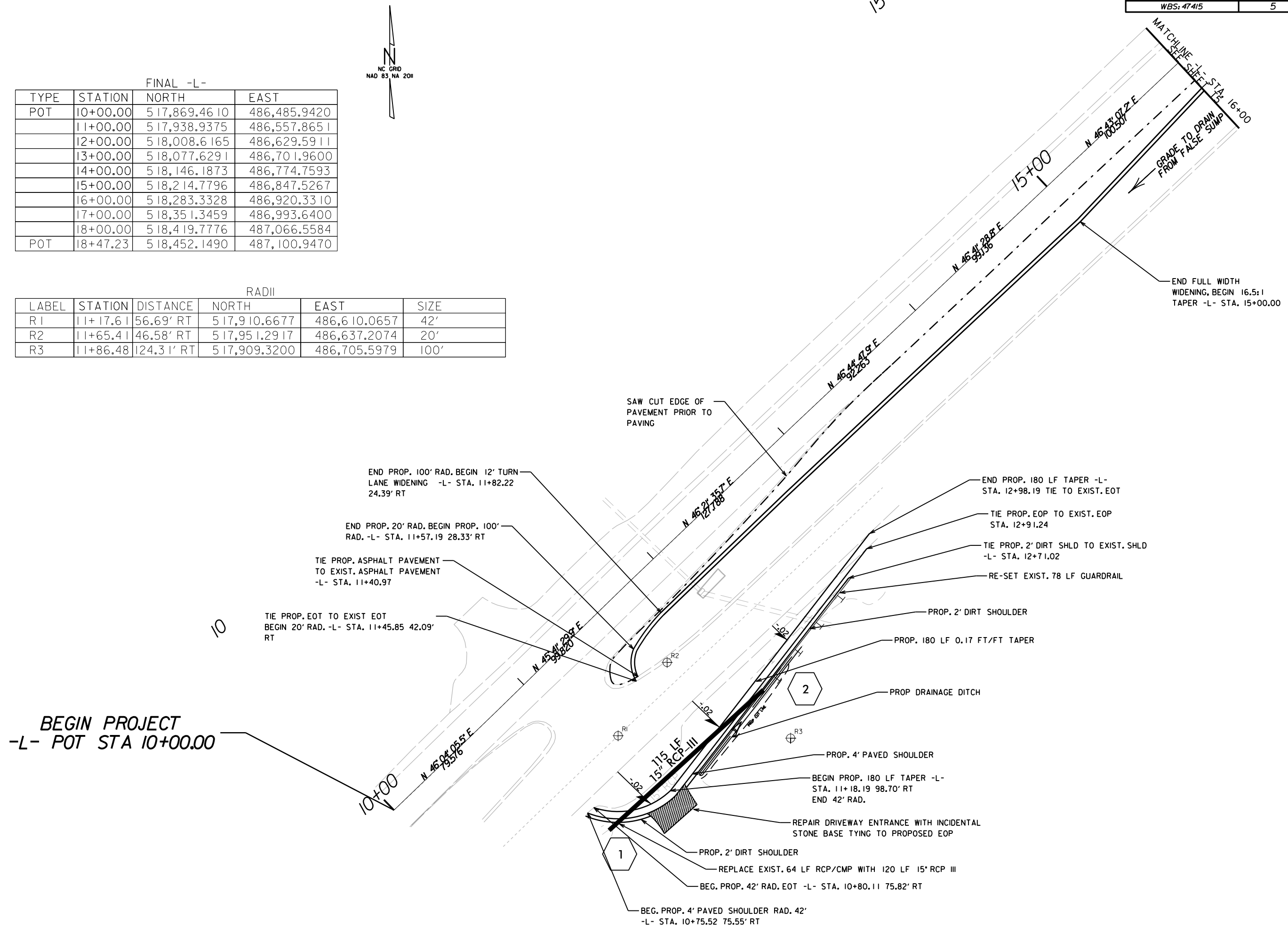
BEGIN PROJECT
-L- POT STA 10+00.00

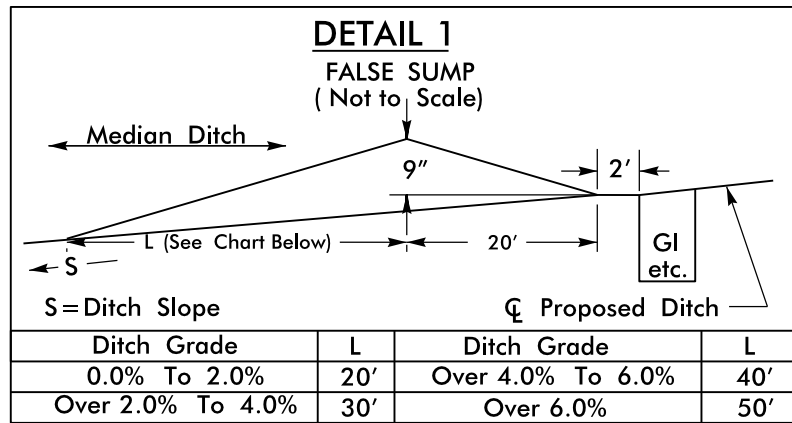
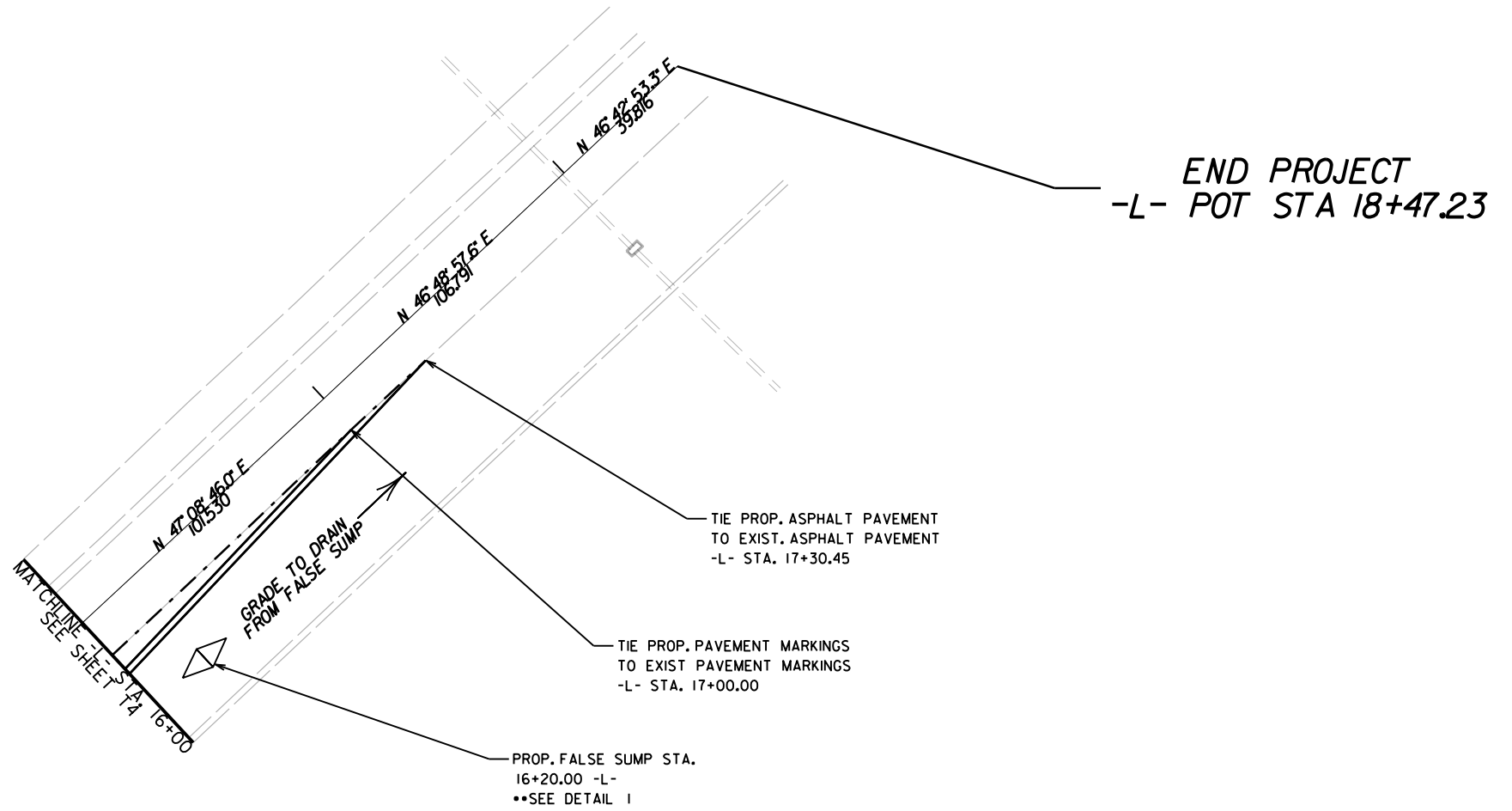
10

15

MATCHLINE SEE STA 16+00
SEE SHEET 15

END FULL WIDTH
WIDENING, BEGIN 16.5:1
TAPER -L- STA. 15+00.00





STA. 16 + 20.00

PROP. FALSE SUMP STA.
16+20.00 -L-
••SEE DETAIL 1

TIE PROP. PAVEMENT MARKINGS
TO EXIST. PAVEMENT MARKINGS
-L- STA. 17+00.00

TIE PROP. ASPHALT PAVEMENT
TO EXIST. ASPHALT PAVEMENT
-L- STA. 17+30.45

END PROJECT
-L- POT STA 18+47.23

5/14/99

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1800

1790

1780

1770

1760

1750

1740

1730

1720

1710

10 + 00

11 + 00

12 + 00

13 + 00

14 + 00

15 + 00

SITE 1

PROJECT REFERENCE NO.		SHEET NO.	
WBS: 47415		P1	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

1780

1770

1760

1750

1740

1730

1720

1710

1,742.70

1,743

1,726.62

(-)2.8413%

(-)2.8610%

(-)2.6565%

(-)2.7035%

(-)2.9768%

PI = 11 + 15.39
EI = 1,739.55'

PI = 12 + 82.84
EI = 1,735.12'

PI = 14 + 18.33
EI = 1,731.34'

PI = 15 + 43.23
EI = 1,727.80'

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

PAVEMENT MARKING PLAN

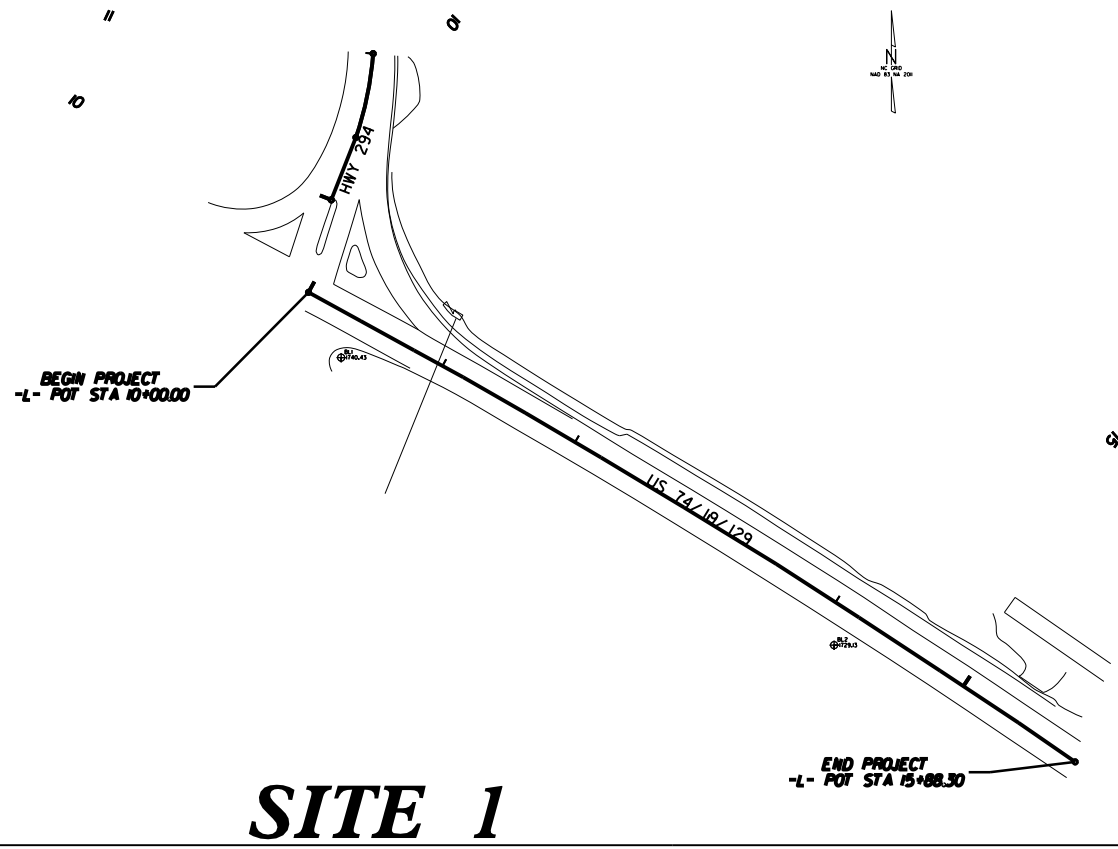
CHEROKEE COUNTY

SITE 1 LOCATION: ALONG US HWY 74/19/129 AT INTERSECTION WITH NC HWY 294

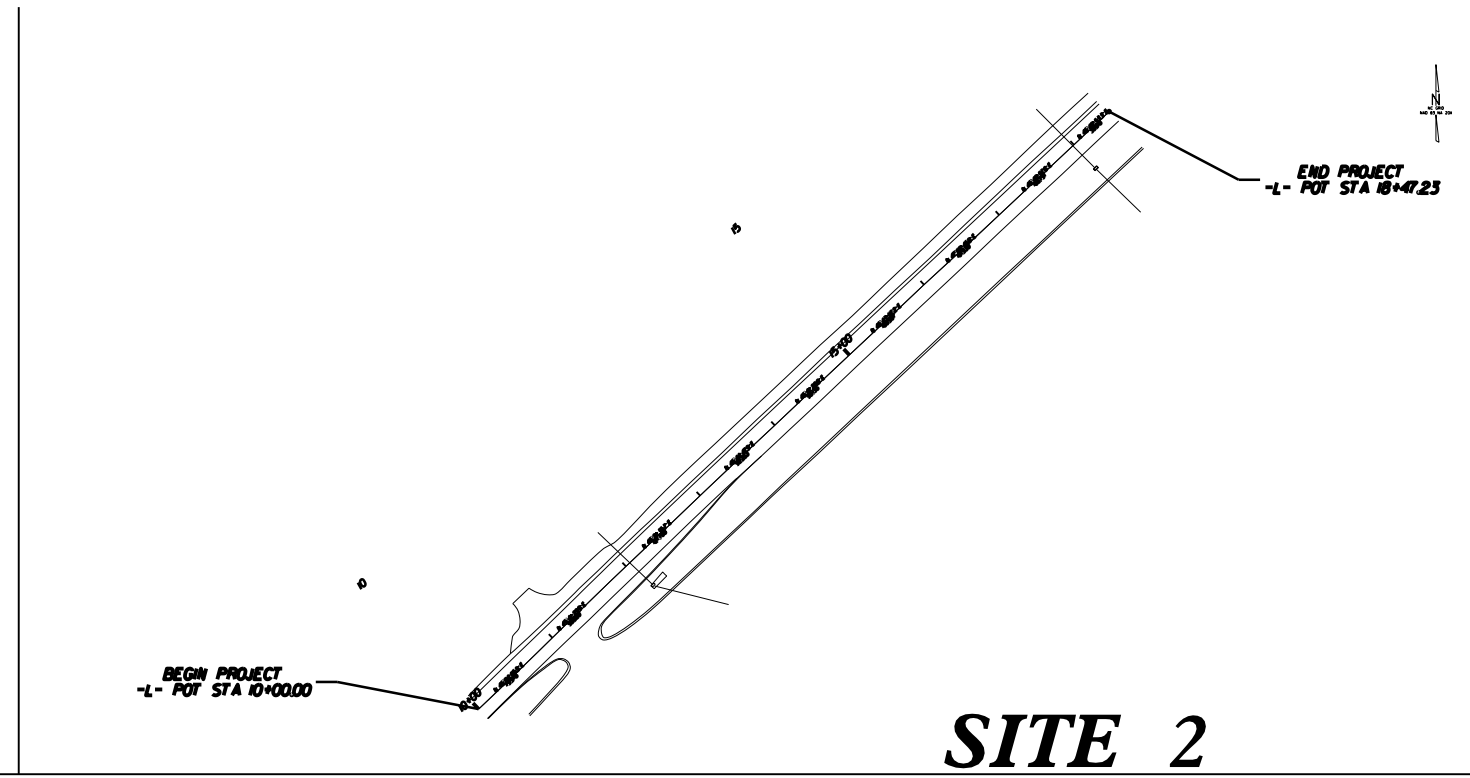
SITE 1 TYPE OF WORK: GRADING, DRAINAGE AND PAVING

SITE 2 LOCATION: ALONG US HWY 19/64 ADJACENT TO RIB COUNTRY RESTAURANT

SITE 2 TYPE OF WORK: GRADING AND PAVING



SITE 1



SITE 2

ROADWAY STANDARD DRAWINGS
2012 ROADWAY 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 17, 2012 and the latest revision thereto are applicable to this project and by reference hereby are considered a part of these plans.

STD. NO.	TITLE
904.50	Mounting of Type 'D', 'E' and 'f' Signs on 'U' Channel Posts
1205.01	Pavement Markings - Line Types and Offsets
1205.04	Pavement Markings - Intersections
1205.05	Pavement Markings - Turn Lanes
1205.08	Pavement Markings - Symbols and Word Messages
1205.13	Pavement Markings - New Interchanges and Intersections

INDEX

PM-1	PAVEMENT MARKING PLAN TITLE SHEET
PM2	PAVEMENT MARKING DETAIL

PAVEMENT MARKING SCHEDULE

- 4" WHITE LINE EDGE- ET1
- 4" 3'-9" WHITE MIN SKIP- MS1
- 6" WHITE "WIDE" LANE LINE- WW1
- CRYSTAL/RED PAVEMENT MARKER-
- 24" YIELD LINE SYMBOL-

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 AS DIRECTED BY THE ENGINEER.

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

ROAD NAME	MARKING	MARKER
US 74/19/129 AND NC HWY 294	THERMOPLASTIC	SNOWPLOWABLE
US 19/64	THERMOPLASTIC	SNOWPLOWABLE

PLACE ONE (1) APPLICATION OF THERMOPLASTIC PAVEMENT MARKINGS ON THE FINAL WEARING SURFACE.

B) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES

C) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS.

21-SEP-2017 13:39 C:\Users\mcorr\Desktop\ARIB COUNTRY TURN LANE\DGN\PAVEMENT MARKINGS\PAVEMENT MARKING_Rdy_dsn.dgn AT DIV14-304603L mcorr

WBS ELEMENT: 47415

CONTRACT: DN00608

// -Y- PT STA. 11+00.00
 PI Sta 10+72.07
 $\Delta = 14^\circ 28' 18.5" (LT)$
 $D = 25^\circ 48' 02.8"$
 $L = 56.09'$
 $T = 28.20'$
 $R = 222.07'$
 -Y- PC STA. 10+43.88

-Y- POT STA. 10+00.00
 BEGIN PROJECT
 -L- POT STA 10+00.00

W 21°30'43.6"E
 HWY 294

TIE WHITE EDGE LINE TO
 EXIST. WHITE EDGE LINE
 -Y- STA. 10+60.27 RT
 TIE PROP. ASPHALT PAVEMENT
 TO EXIST. ASPHALT PAVEMENT
 -Y- STA. 10+62.92

PROP. YIELD SIGN
 PROVIDED BY NCDOT

185.48' RAD EOT
 183.48' RAD EOP
 N-50634 1.72 15
 E-462097.7 155

TIE PROP. PAVEMENT MARKINGS
 TO EXIST PAVEMENT MARKINGS
 -Y- STA. 10+60.27

PROP. YIELD SYMBOLS

PROP. RIGHT TURN ARROW

END PROP. EOT RADIUS -L- STA. 11+50.68

END PROP. EOP RADIUS -L- STA. 11+56.14

ET I

END FULL WIDTH
 WIDENING, BEGIN 16.5:1
 TAPER -L- STA. 13+23.29

PROP. RIGHT TURN ARROW

TIE PROP. EOP TO EXIST. EOP -L- STA. 13+99.18

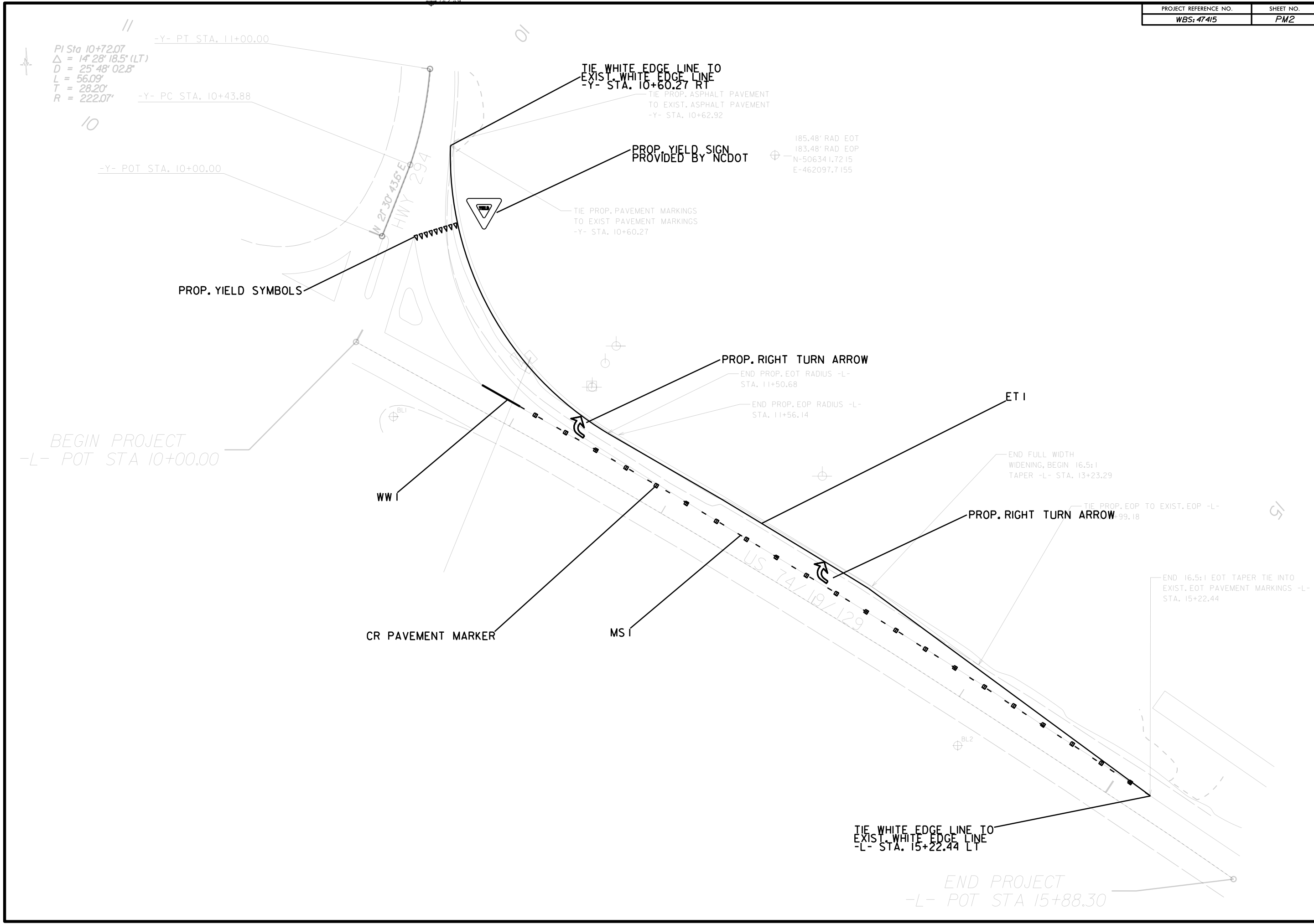
END 16.5:1 EOT TAPER TIE INTO
 EXIST. EOT PAVEMENT MARKINGS -L-
 STA. 15+22.44

CR PAVEMENT MARKER

MS I

TIE WHITE EDGE LINE TO
 EXIST. WHITE EDGE LINE
 -L- STA. 15+22.44 LT

END PROJECT
 -L- POT STA 15+88.30

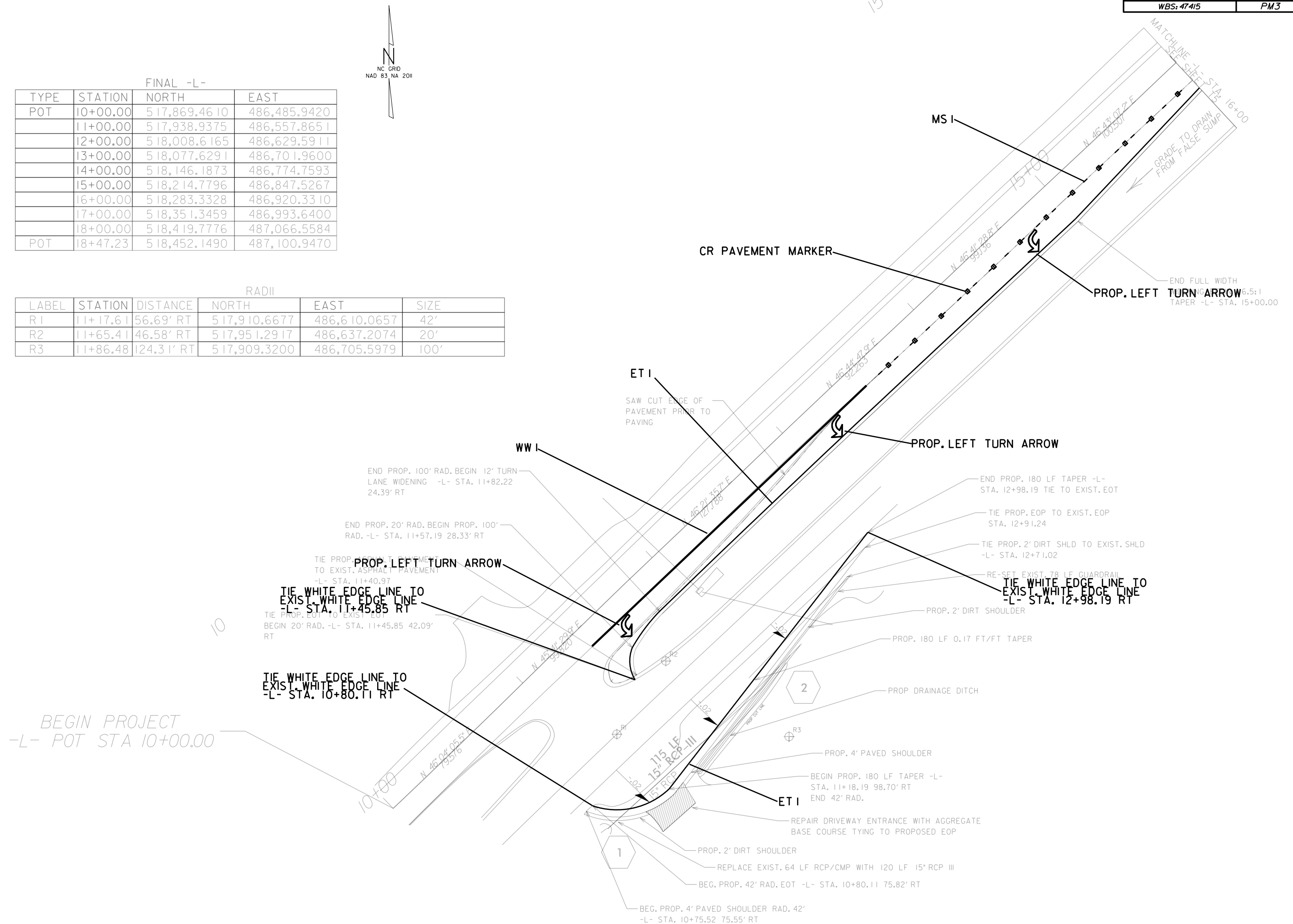
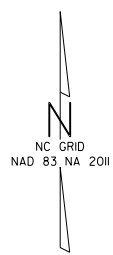


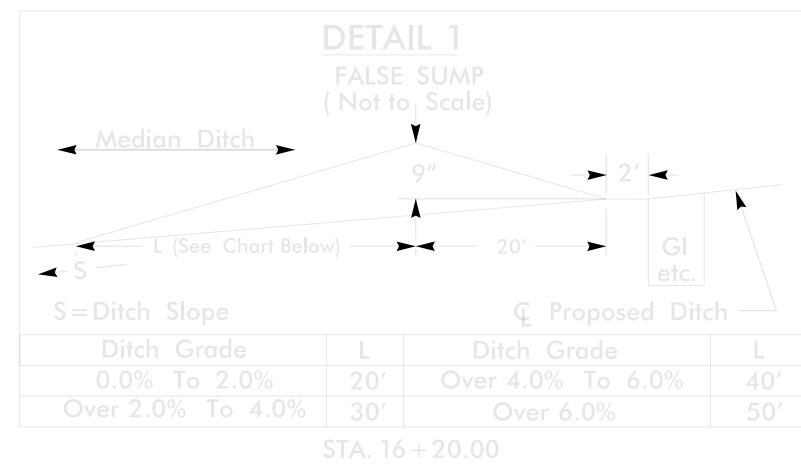
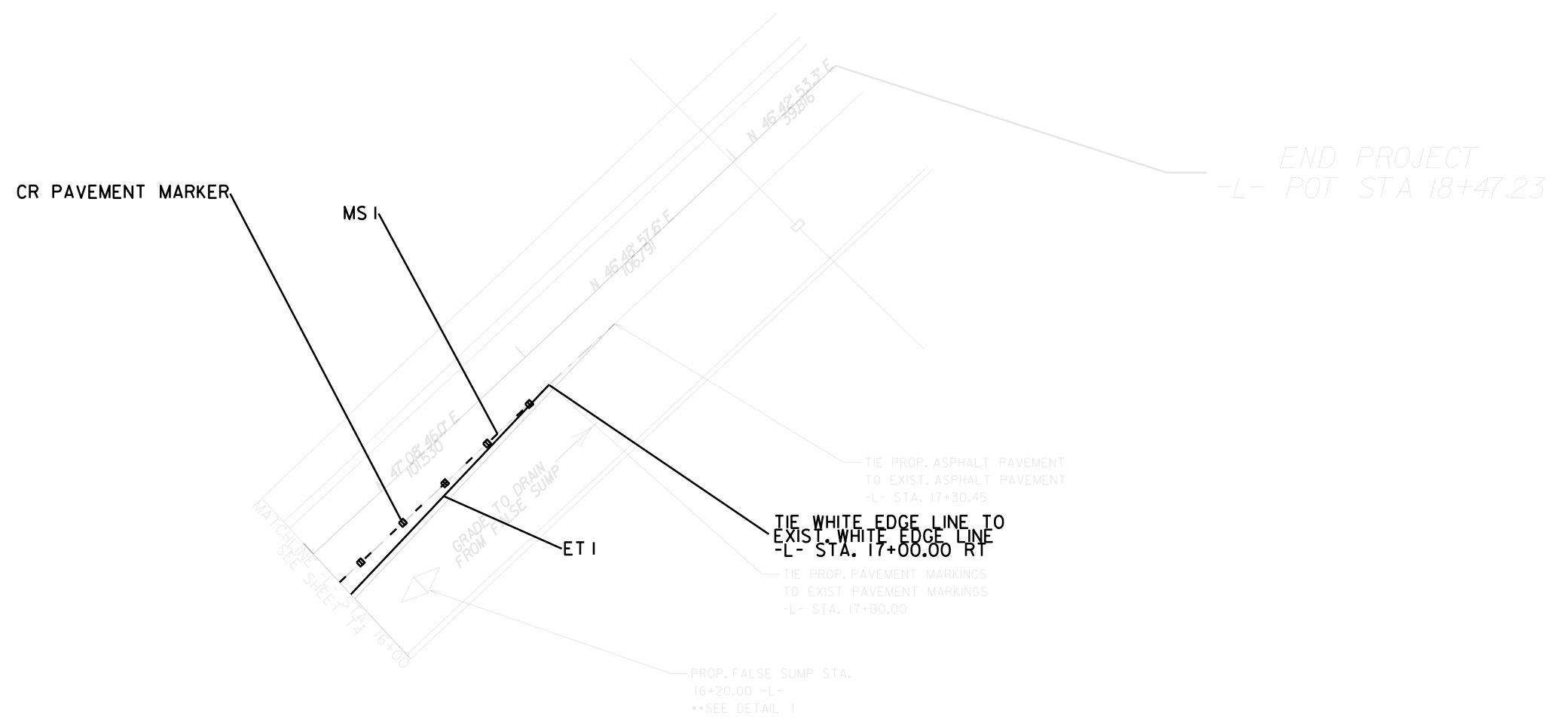
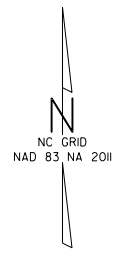
FINAL -L-

TYPE	STATION	NORTH	EAST
POT	10+00.00	517,869.4610	486,485.9420
	11+00.00	517,938.9375	486,557.8651
	12+00.00	518,008.6165	486,629.5911
	13+00.00	518,077.6291	486,701.9600
	14+00.00	518,146.1873	486,774.7593
	15+00.00	518,214.7796	486,847.5267
	16+00.00	518,283.3328	486,920.3310
	17+00.00	518,351.3459	486,993.6400
	18+00.00	518,419.7776	487,066.5584
POT	18+47.23	518,452.1490	487,100.9470

RADII

LABEL	STATION	DISTANCE	NORTH	EAST	SIZE
R1	11+17.61	56.69' RT	517,910.6677	486,610.0657	42'
R2	11+65.41	46.58' RT	517,951.2917	486,637.2074	20'
R3	11+86.48	124.31' RT	517,909.3200	486,705.5979	100'





WBS ELEMENT: 47415

CONTRACT: DN00608

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

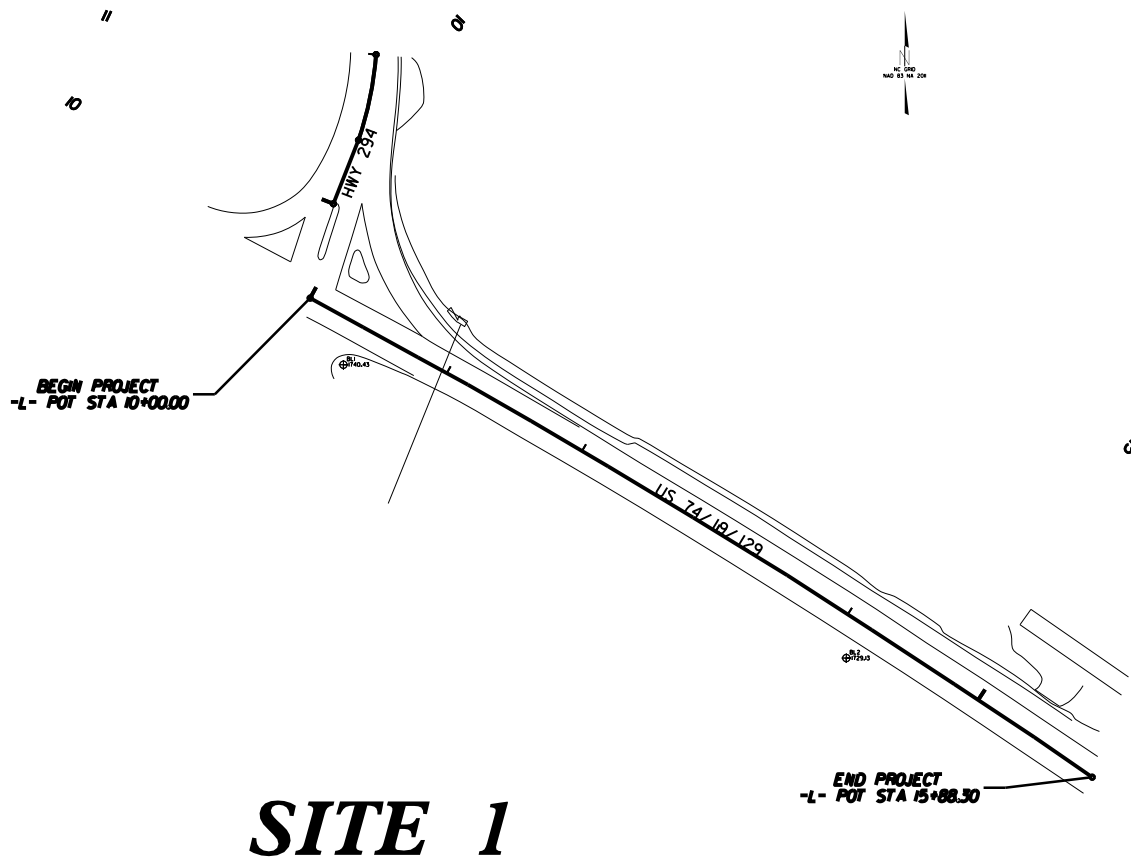
CHEROKEE COUNTY

SITE 1 LOCATION: ALONG US HWY 74/19/129 AT INTERSECTION WITH NC HWY 294
SITE 1 TYPE OF WORK: GRADING, DRAINAGE AND PAVING
SITE 2 LOCATION: ALONG US HWY 1964 ADJACENT TO RIB COUNTRY RESTAURANT
SITE 2 TYPE OF WORK: GRADING AND PAVING

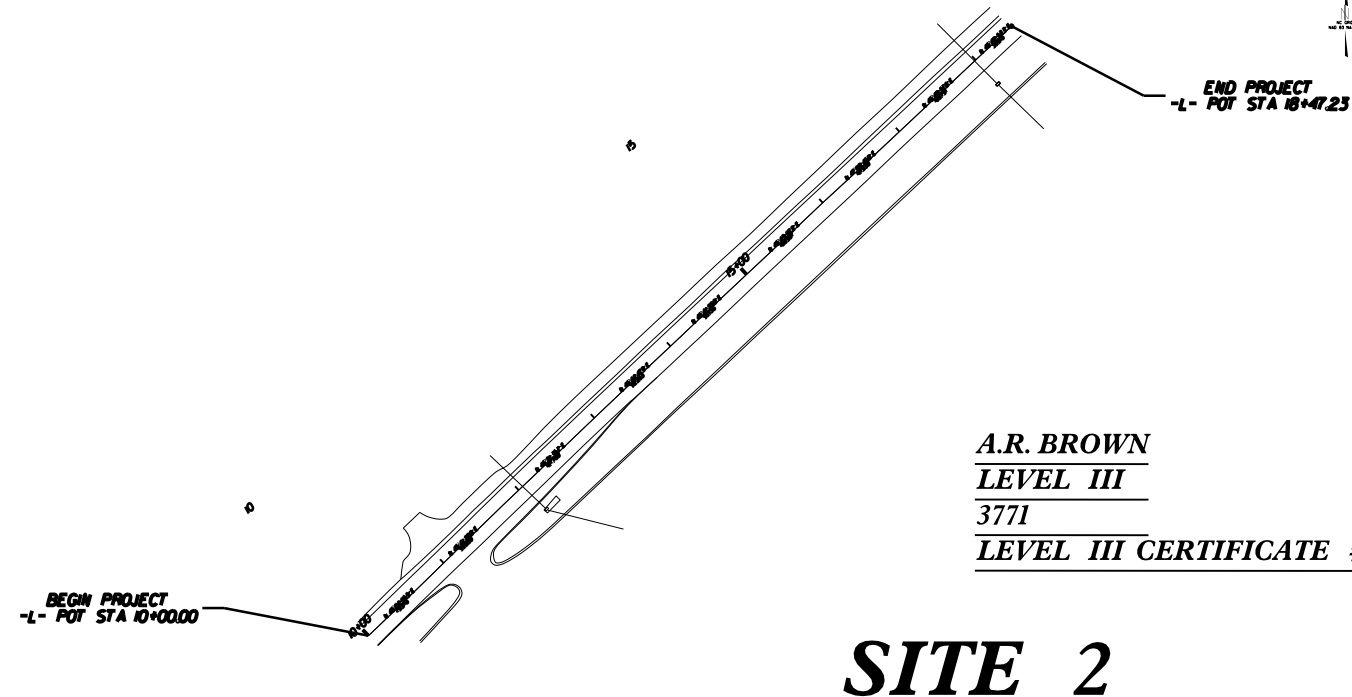
STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	WBS: 47415	EC-1	
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION	

EROSION AND SEDIMENT CONTROL MEASURES

Item No.	Description	Symbol
1630.05	Temporary Silt Ditch	[Symbol]
1630.06	Temporary Diversion	[Symbol]
1606.01	Temporary Silt Fence	[Symbol]
1606.01	Special Sediment Control Fence	[Symbol]
1622.01	Temporary Berms and Slope Drains	[Symbol]
1630.02	Silt Basin Type B	[Symbol]
1635.01	Temporary Rock Silt Check Type-A	[Symbol]
	Temporary Rock Silt Check Type-A with Matting and Polyacrylamide (PAM)	[Symbol]
1635.02	Temporary Rock Silt Check Type-B	[Symbol]
	Wattle / Coir Fiber Wattle	[Symbol]
	Wattle / Coir Fiber Wattle with Polyacrylamide (PAM)	[Symbol]
1634.01	Temporary Rock Sediment Dam Type-A	[Symbol]
1634.02	Temporary Rock Sediment Dam Type-B	[Symbol]
1635.01	Rock Pipe Inlet Sediment Trap Type-A	[Symbol]
1635.02	Rock Pipe Inlet Sediment Trap Type-B	[Symbol]
1630.04	Stilling Basin	[Symbol]
1630.06	Special Stilling Basin	[Symbol]
	Rock Inlet Sediment Trap	
	Type A	[Symbol]
	Type B	[Symbol]
	Type C	[Symbol]
	Skimmer Basin	[Symbol]
	Tiered Skimmer Basin	[Symbol]
	Infiltration Basin	[Symbol]

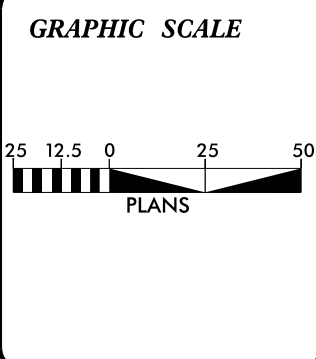


SITE 1



A.R. BROWN
LEVEL III
3771
LEVEL III CERTIFICATE #

SITE 2



DIVISION 14, DISTRICT 3
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.

Prepared In the Office of:
DIVISION 14, DISTRICT 3
191 ROBBINSVILLE ROAD
ANDREWS, NC 28901
2012 STANDARD SPECIFICATIONS

Roadway Standard Drawings

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

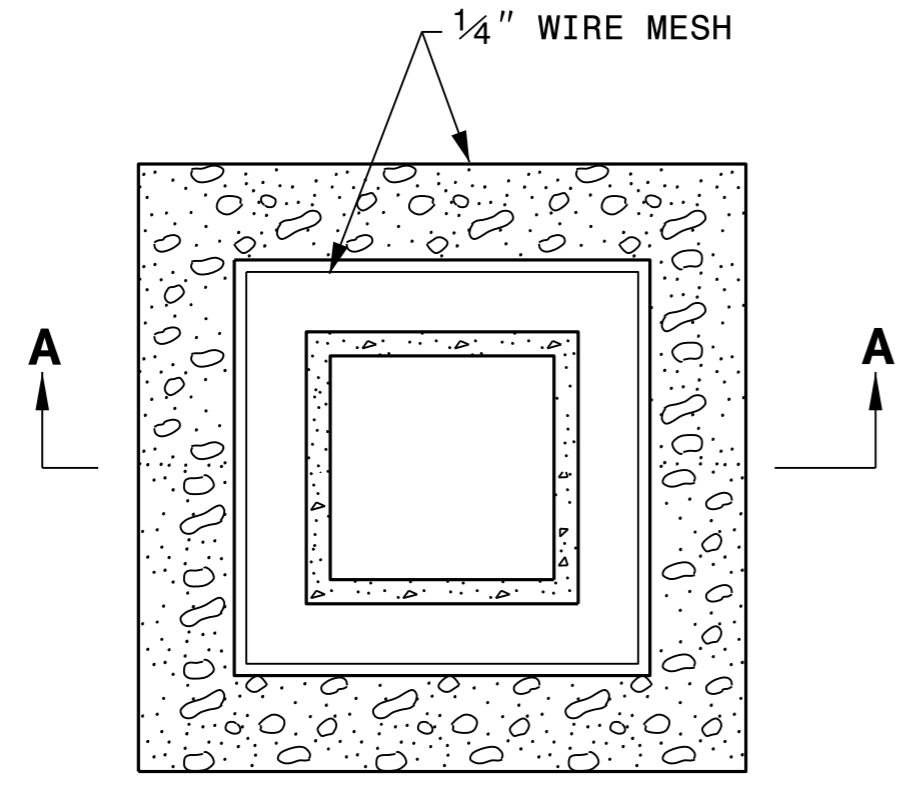
1604.01 Railroad Erosion Control Detail	1632.01 Rock Inlet Sediment Trap Type A
1605.01 Temporary Silt Fence	1632.02 Rock Inlet Sediment Trap Type B
1606.01 Special Sediment Control Fence	1632.03 Rock Inlet Sediment Trap Type C
1607.01 Gravel Construction Entrance	1633.01 Temporary Rock Silt Check Type 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	

21-SEP-2017 14:03:00 \\S:\WORK\EROSION CONTROL_V294_EC.dwg

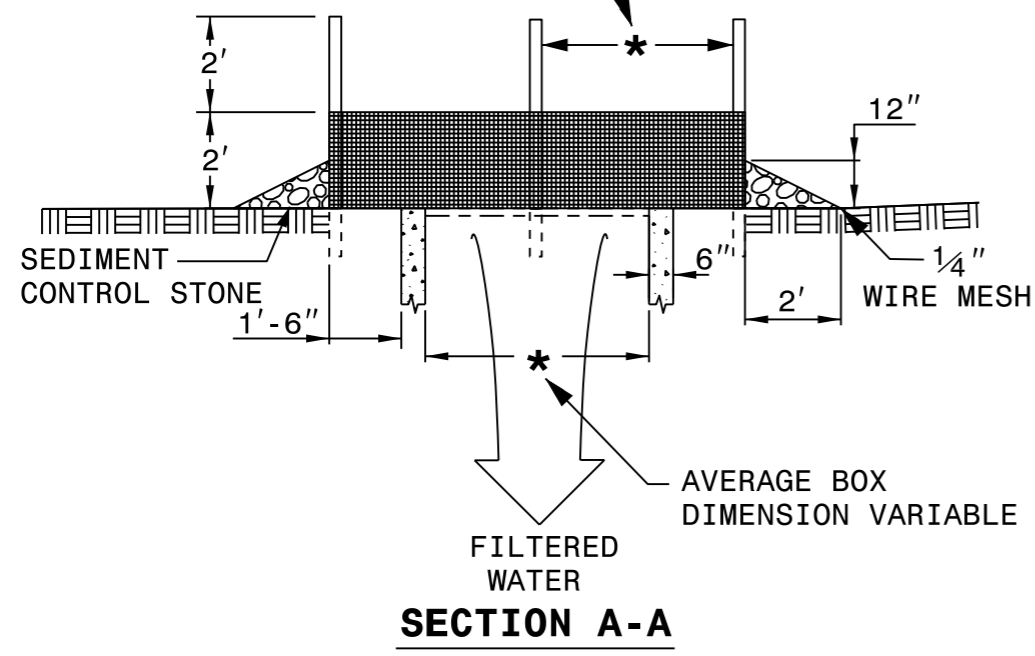
DIVISION OF HIGHWAYS
STATE OF NORTH CAROLINA

SOIL STABILIZATION TIMEFRAMES

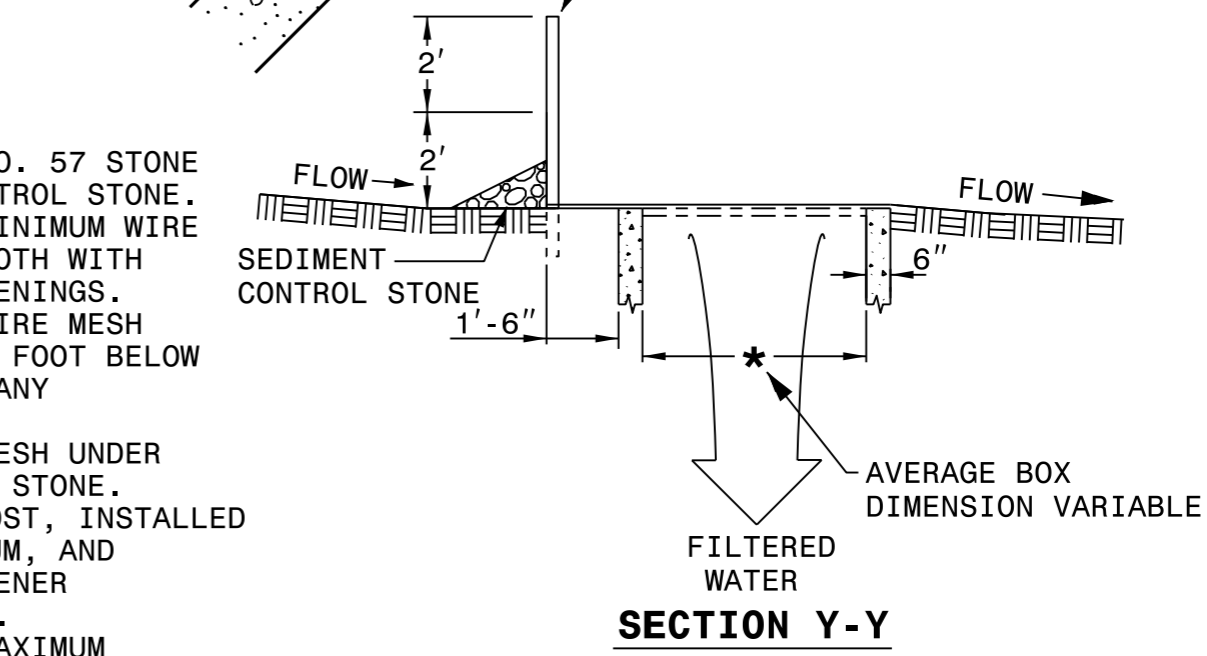
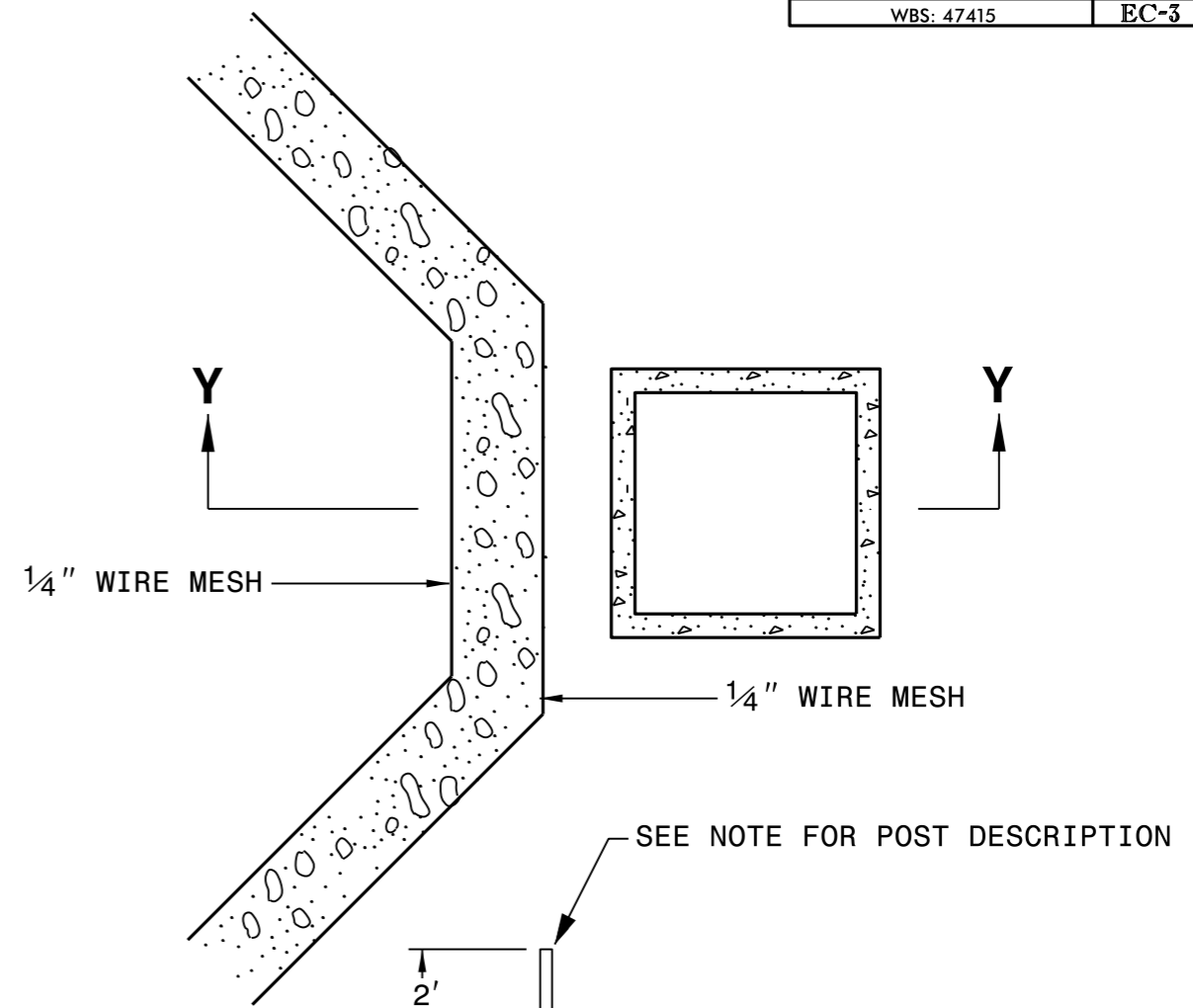
<i>SITE DESCRIPTION</i>	<i>STABILIZATION TIME</i>	<i>TIMEFRAME EXCEPTIONS</i>
PERIMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10' OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED.
SLOPES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



MAXIMUM POST SPACING 4 FT.



MULTI-DIRECTIONAL FLOW

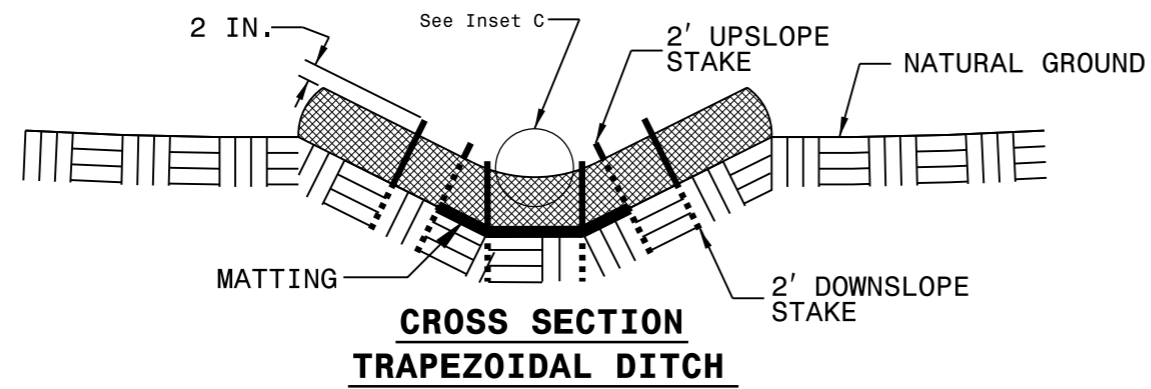
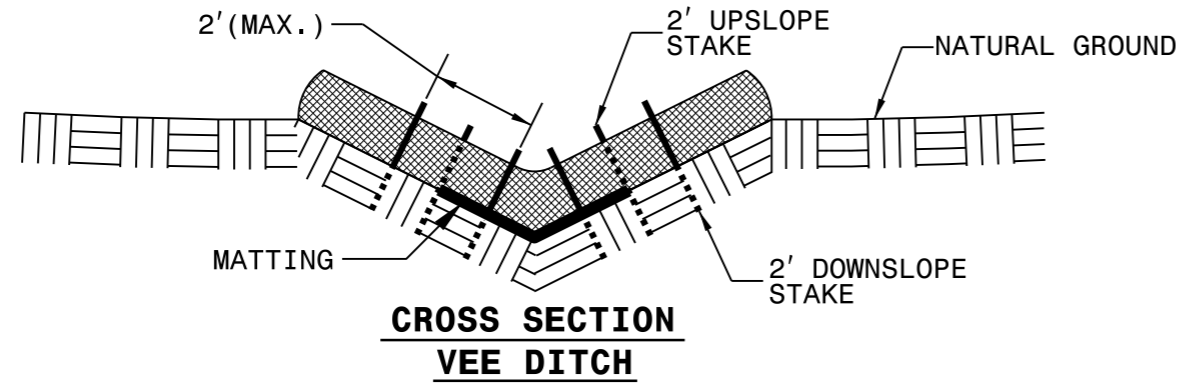
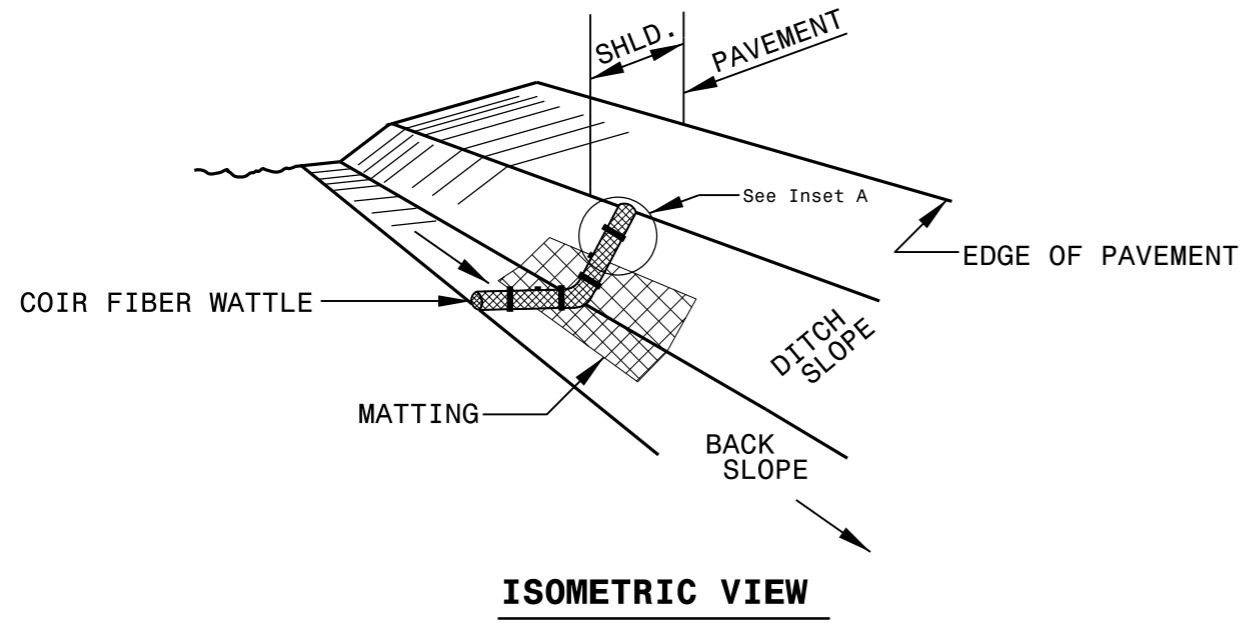


SINGLE-DIRECTIONAL FLOW

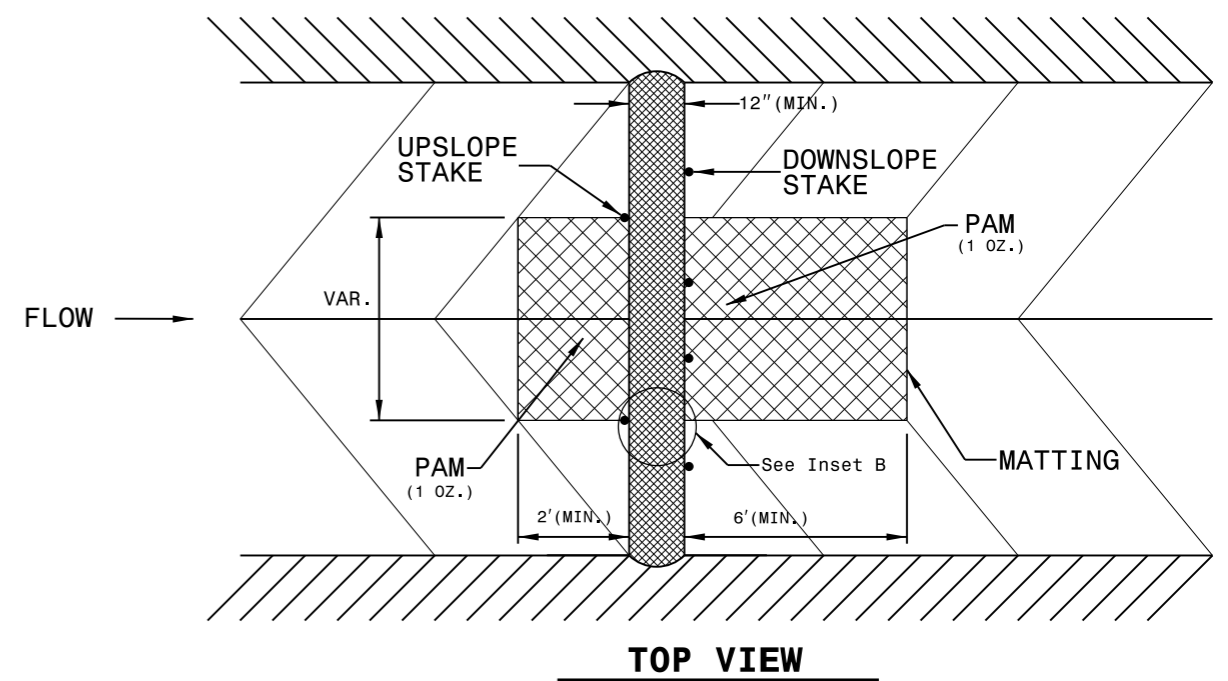
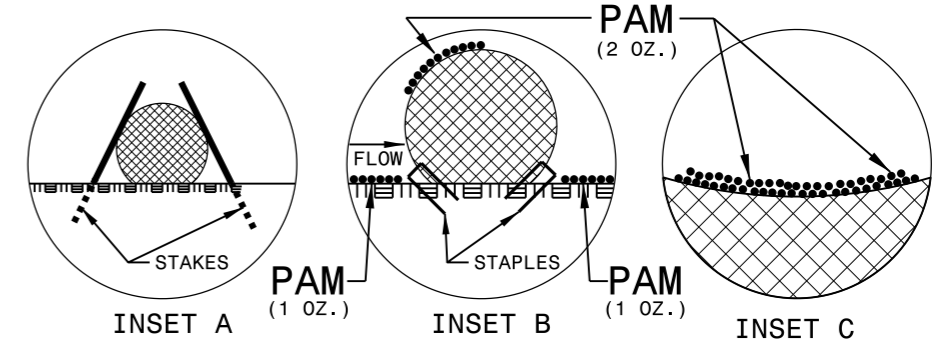
NOTE
USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
USE 24 GAUGE MINIMUM WIRE MESH HARDWARE CLOTH WITH 1/4 INCH MESH OPENINGS.
PLACE TOP OF WIRE MESH A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
INSTALL WIRE MESH UNDER SEDIMENT CONTROL STONE.
USE 5' STEEL POST, INSTALLED 1.5' DEEP MINIMUM, AND OF THE SELF-FASTENER ANGLE STEEL TYPE.
SPACE POST A MAXIMUM OF 4'.

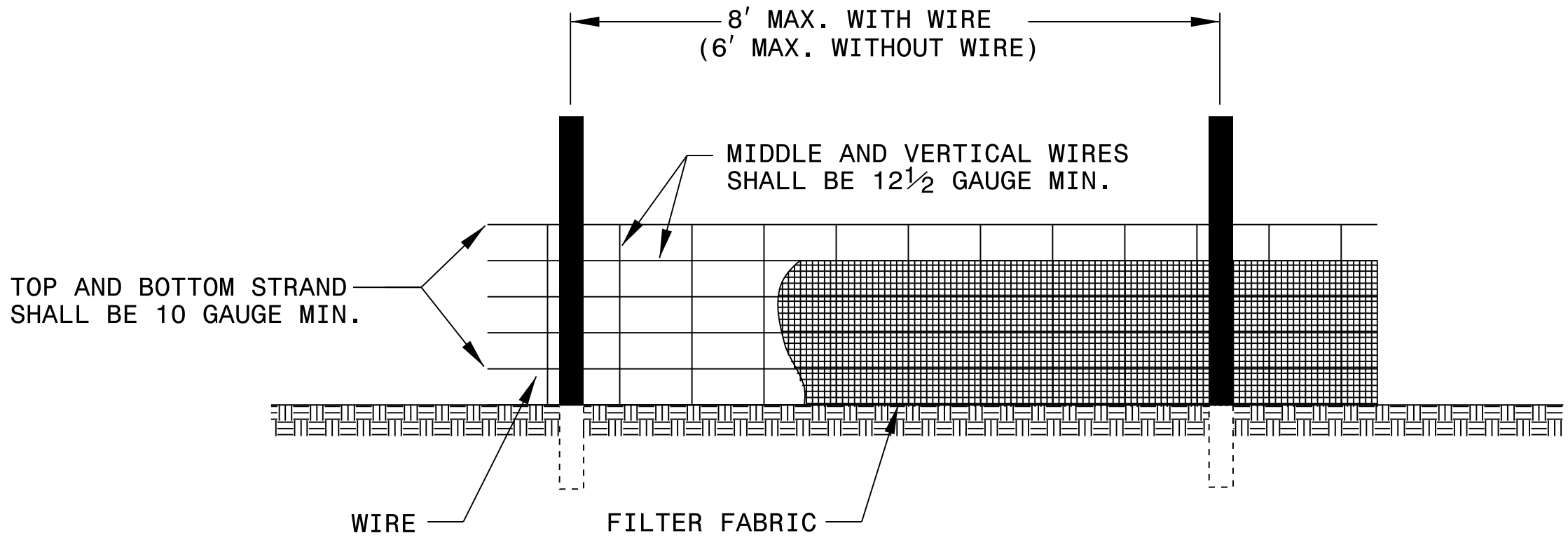
PROJECT REFERENCE NO. WBS: 47415	SHEET NO. EC-3A
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

COIR FIBER WATTLE WITH POLYACRYLAMIDE (PAM) DETAIL



- NOTES:
- USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) 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.



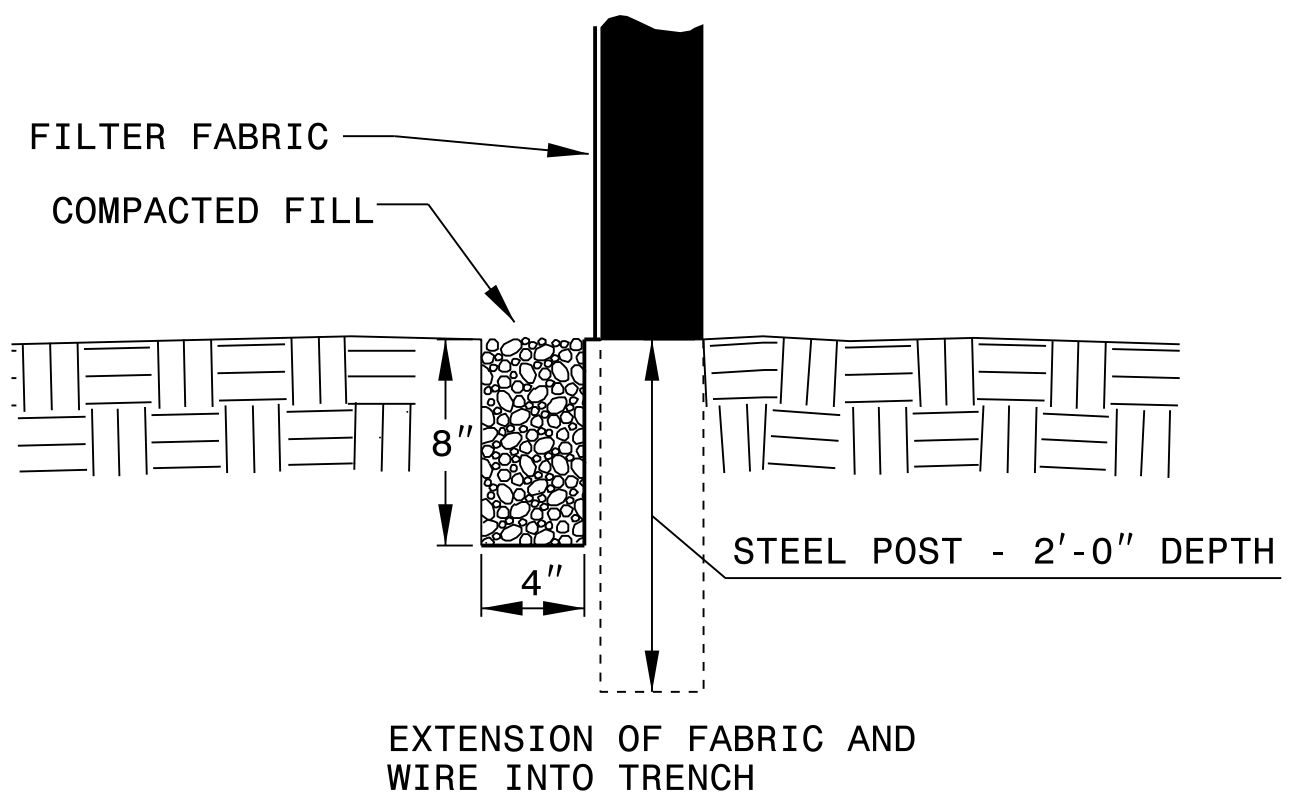


NOTES

USE WIRE A MINIMUM OF 32" IN WIDTH AND WITH A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.

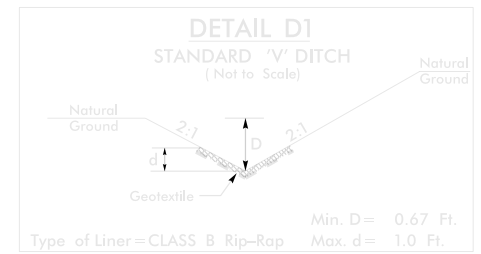
USE FILTER FABRIC A MINIMUM OF 36" IN WIDTH AND FASTEN ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.

PROVIDE 5'-0" STEEL POST OF THE SELF-FASTENER ANGLE STEEL TYPE.



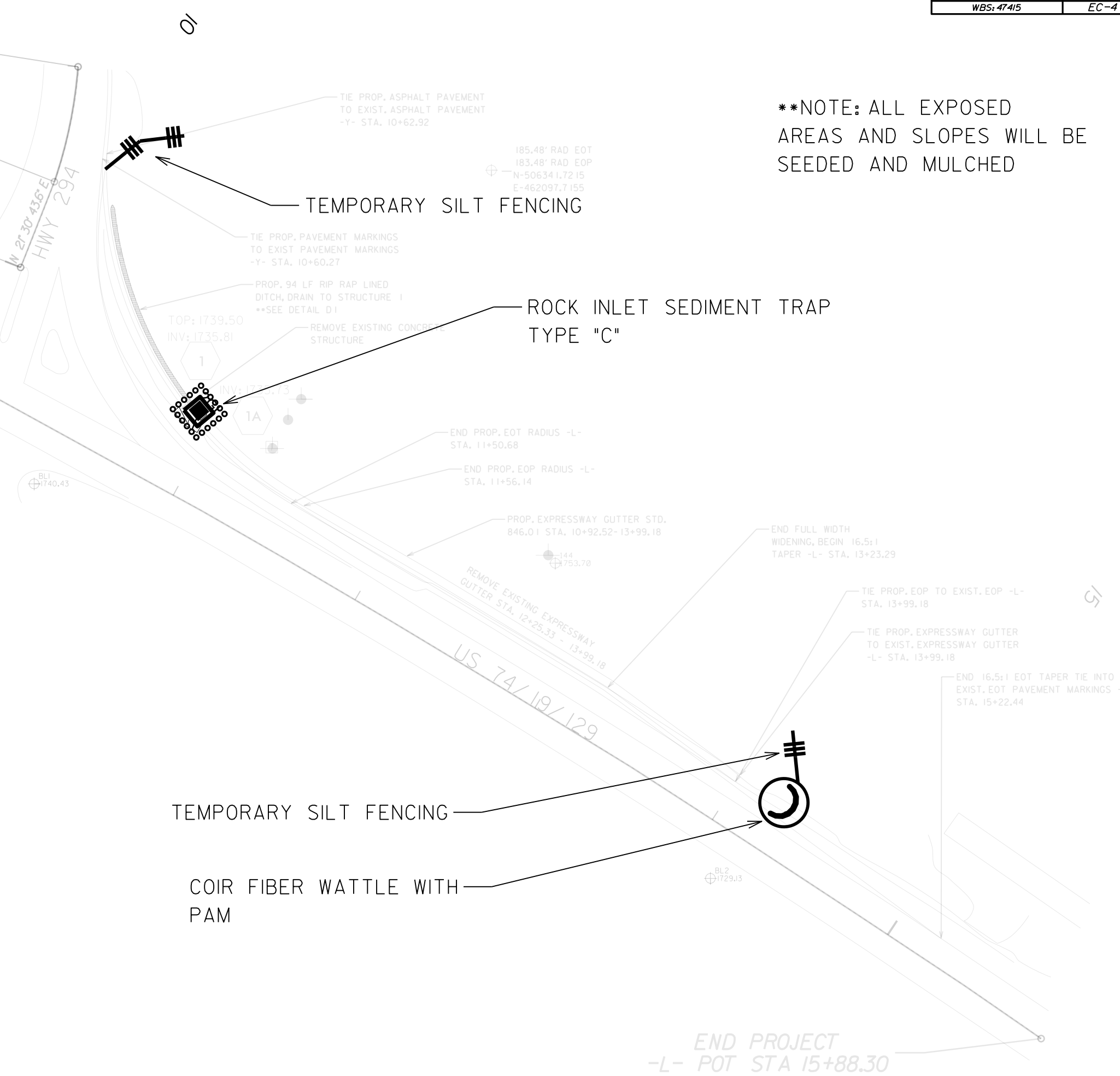
// -Y- PT STA. 11+00.00
 PI Sta 10+72.07
 $\Delta = 14' 28" 18.5" (LT)$
 $D = 25' 48" 02.8"$
 $L = 56.09'$
 $T = 28.20'$
 $R = 222.07'$
 -Y- PC STA. 10+43.88

10
 -Y- POT STA. 10+00.00
 BEGIN PROJECT
 -L- POT STA 10+00.00



FROM STA. 10+43.88 -Y- TO STA. 10+89.66 -L-
188 SF GEOTEXTILE FABRIC, 2 TONS CLASS 'B' RIP RAP

SITE 1



****NOTE: ALL EXPOSED AREAS AND SLOPES WILL BE SEEDED AND MULCHED**

END PROJECT
-L- POT STA 15+88.30



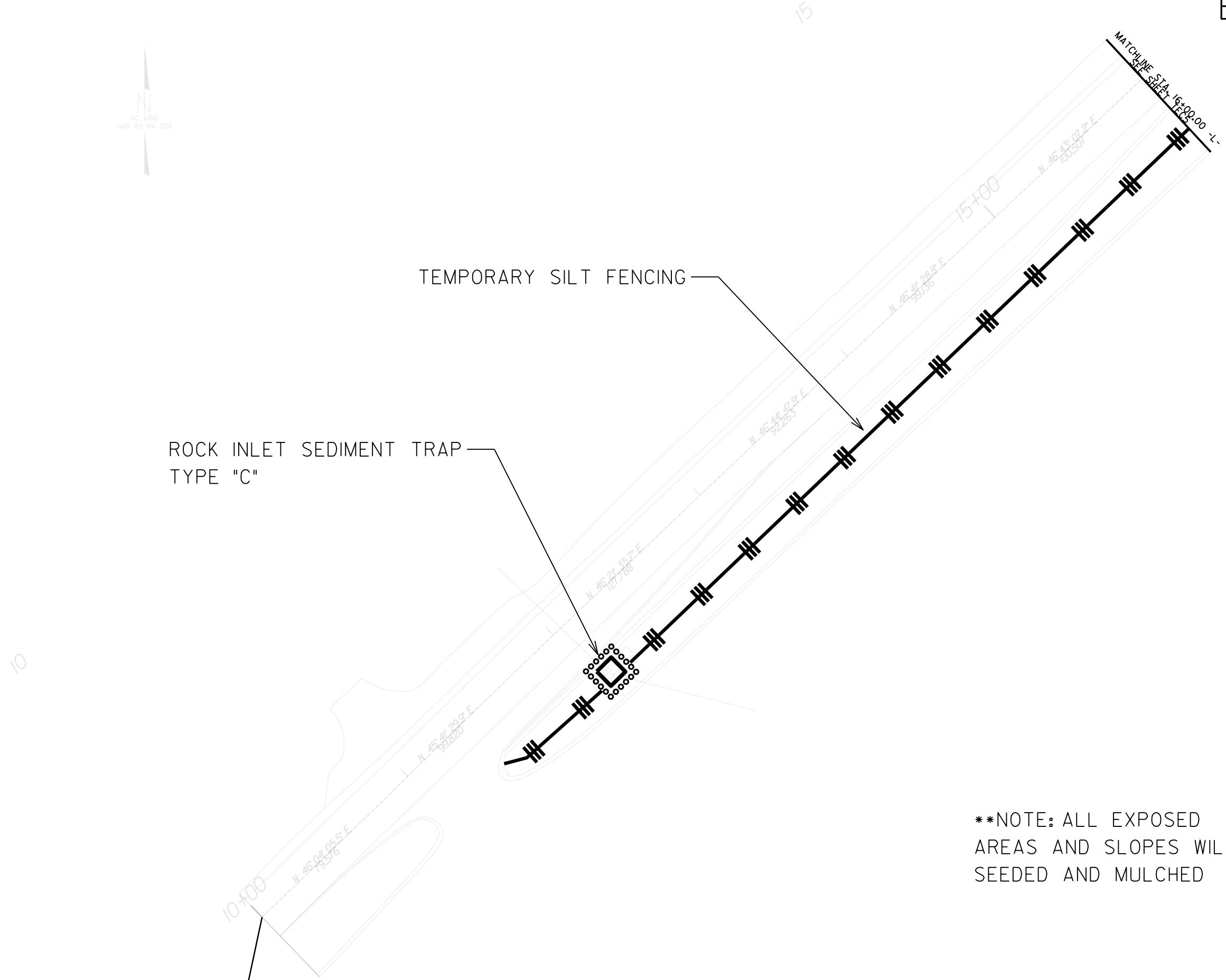
BEGIN PROJECT
-L- POT STA 10+00.00

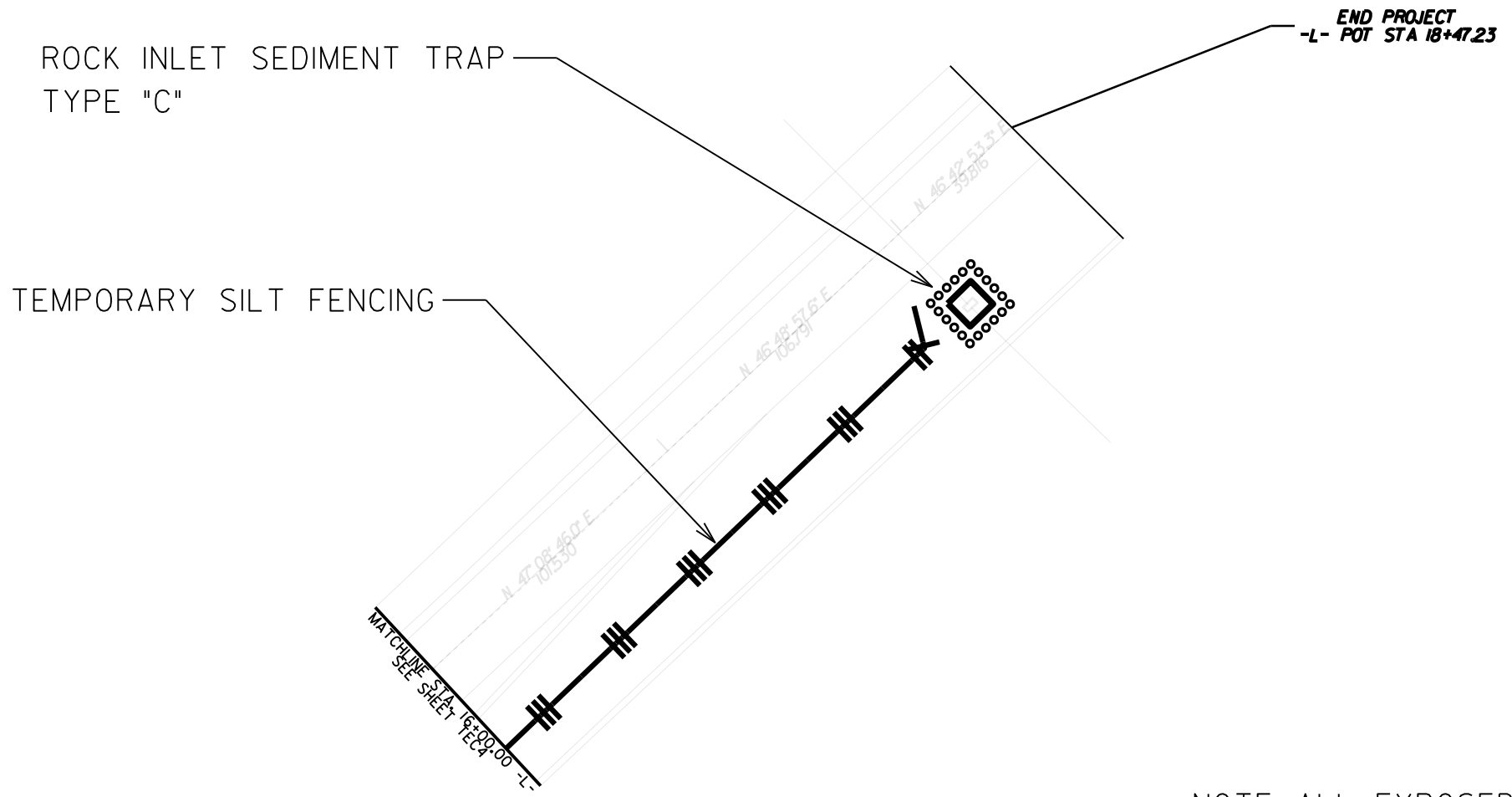
ROCK INLET SEDIMENT TRAP
TYPE "C"

TEMPORARY SILT FENCING

**NOTE: ALL EXPOSED
AREAS AND SLOPES WILL BE
SEEDED AND MULCHED

SITE 2





**NOTE: ALL EXPOSED AREAS AND SLOPES WILL BE SEEDED AND MULCHED

SITE 2