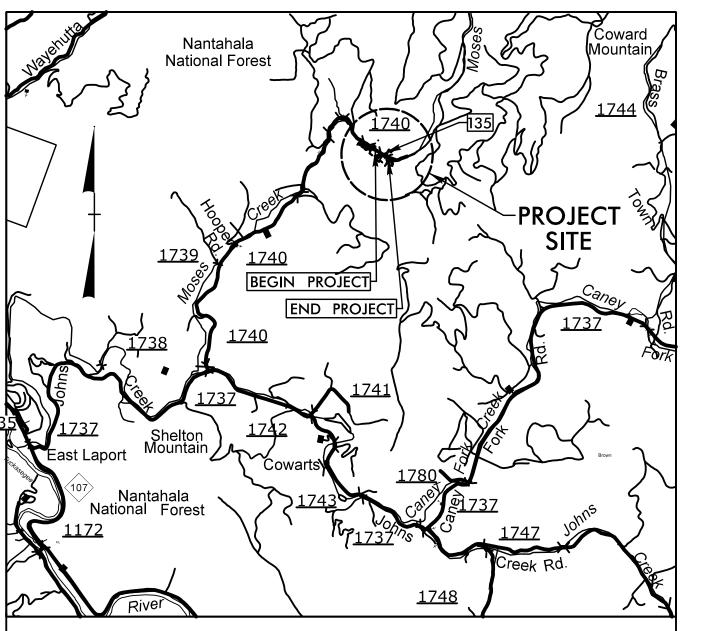
This electronic collection of documents is provided for the convenience of the user and is Not a Certified Document –

The documents contained herein were originally issued and sealed by the individuals whose names and license numbers appear on each page, on the dates appearing with their signature on that page.

This file or an individual page shall not be considered a certified document.

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



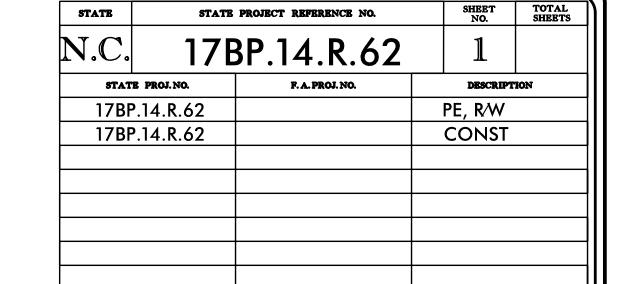
VICINITY MAP

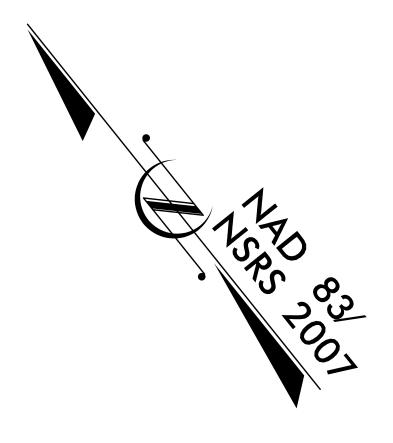
STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

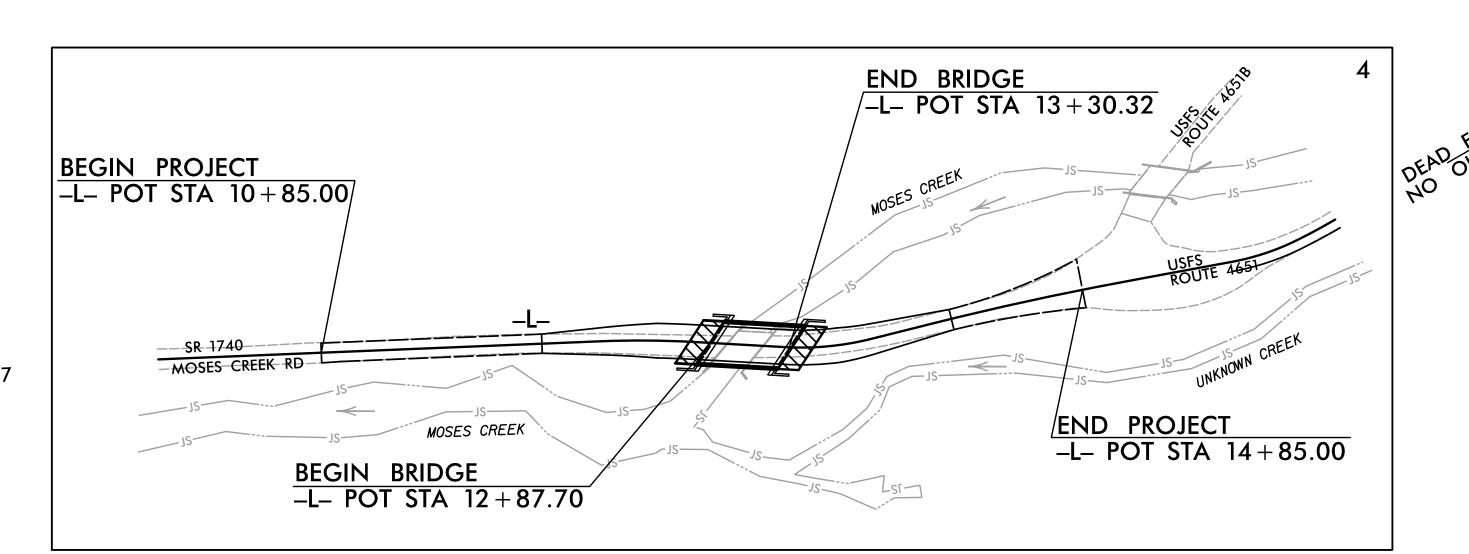
JACKSON COUNTY

LOCATION: BRIDGE NO. 135 OVER MOSES CREEK ON SR 1740 (MOSES CREEK RD)

TYPE OF WORK: GRADING, DRAINAGE, PAVING AND STRUCTURE







DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

GRAPHIC SCALES **PLANS** PROFILE (HORIZONTAL) PROFILE (VERTICAL)

DESIGN DATA

ADT XXXX = XXXV = 20 MPHFUNC CLASS = LOCAL SUB_REGIONAL TIER

PROJECT LENGTH

LENGTH ROADWAY STATE PROJECT 17BP.14.R.62 = 0.068 MILES LENGTH STRUCTURES STATE PROJECT 17BP.14.R.62 = 0.008 MILES TOTAL LENGTH STATE PROJECT 17BP.14.R.62 = 0.076 MILES

NCDOT CONTACT:

JOSHUA DEYTON, PE PROJECT ENGINEER

Prepared in the Office of:

NC FIRM LICENSE No: F-0342 70| Corporate Center Drive, Suite 475 Raleigh, NC 27607 (9|9) 854-6200 - (9|9) 854-6259(FAX)

LEN HILL, PE

PROJECT ENGINEER

2012 STANDARD SPECIFICATIONS

RIGHT OF WAY DATE: **AUGUST 2, 2012**

LEN HILL, PE LETTING DATE: PROJECT DESIGN ENGINEER JULY, 2016

HYDRAULICS ENGINEER

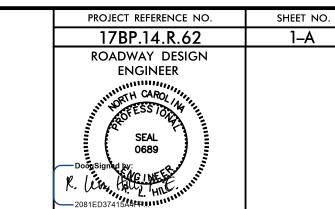
Frank F. Fleming SIGNATURE:

ROADWAY DESIGN **ENGINEER** R. len Hill, P.E. *P.E.* 7/7/2016 -2081ED37415A4FF... SIGNATURE:



STATE HIGHWAY DESIGN ENGINEER

INDEX OF SHEETS, LIST OF STANDARD DRAWINGS & GENERAL NOTES



7/7/2016

INDEX OF SHEETS

SHEET NUMBER	SHEET
1	TITLE SHEET
1 - A	INDEX OF SHEETS, GENERAL NOTES, AND LIST OF STANDARDS
1 -B	CONVENTIONAL SYMBOLS
1 -C	SURVEY CONTROL SHEETS
1 -D	CENTERLINE COORDINATE LIST
2 THRU 2-A	TYPICAL SECTIONS AND PAVEMENT SCHEDULE
3-A	SUMMARY OF DRAINAGE QUANTITIES, SUMMARY OF GUARDRAIL, AND EARTHWORK SUMMARY
4	PLAN AND PROFILE SHEET
TMP-1 THRU TMP-4	TRANSPORTATION MANAGEMENT PLANS
EC-1 THRU EC-4	EROSION CONTROL PLANS
X-0	CROSS SECTION INDEX
X-1 A	CROSS-SECTION SUMMARY SHEET
X-1 THRU X-9	CROSS-SECTIONS
TS-01	STRUCTURE PLANS TITLE SHEET
S-01 THRU S-18	STRUCTURE PLANS
CN	CTRUCTURE DI ANC. CTANDARD NOTEC CHEET

STRUCTURE PLANS - STANDARD NOTES SHEET

GENERAL NOTES:

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

GRADE LINE:

GRADING AND SURFACING:

THE GRADE LINES SHOWN DENOTE THE FINISHED ELEVATION OF THE PROPOSED SURFACING AT GRADE POINTS SHOWN ON THE TYPICAL SECTIONS. GRADE LINES MAY BE ADJUSTED AT THEIR BEGINNING AND ENDING AND AT STRUCTURES AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER TIE-IN.

CLEARING:

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

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.

SIDE ROADS:

THE CONTRACTOR WILL BE REQUIRED TO DO ALL NECESSARY WORK TO PROVIDE SUITABLE CONNECTIONS WITH ALL ROADS, STREETS, AND DRIVES ENTERING THIS PROJECT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PARTICULAR ITEMS INVOLVED.

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:

SUBSURFACE PLANS ARE AVAILABLE UPON REQUEST.

END BENTS:

THE ENGINEER SHALL CHECK THE STRUCTURE END BENT PLANS, DETAILS, AND CROSS-SECTION PRIOR TO SETTING OF THE SLOPE STAKES FOR THE EMBANKMENT OR EXCAVATION APPROACHING A BRIDGE.

RIGHT-OF-WAY MARKERS:

ALL RIGHT-OF-WAY MARKERS ON THIS PROJECT SHALL BE PLACED BY OTHERS.

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:

PROJECT REFERENCE NO.	SHEE
17BP.14.R.62	1-

Note: Not to Scale STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS *S.U.E. = Subsurface Utility Engineering

BOUNDARIES AND PROPERTY:	CONVENTIONAL	PLAN	SHEET	SYMBOLS
state Line ————————————————————————————————————				
County Line ————————————————————————————————————				

State Line ————————————————————————————————————			
County Line —			
Township Line ————————————————————————————————————		RAILROADS:	
City Line		Standard Gauge —————	CSX TRANSPORTATION
Reservation Line ————————————————————————————————————		RR Signal Milepost ————————————————————————————————————	⊙ MILEPOST 35
Property Line ————————————————————————————————————	<u> </u>	Switch —	SWITCH
Existing Iron Pin ——————————————————————————————————	<u> </u>	RR Abandoned ——————	
Property Corner —	×	RR Dismantled ————————————————————————————————————	
Property Monument ————————————————————————————————————		RIGHT OF WAY:	
Parcel/Sequence Number ————	<u> </u>	Baseline Control Point	•
Existing Fence Line ————————————————————————————————————	xxx_	Existing Right of Way Marker	$\stackrel{\bullet}{\triangle}$
Proposed Woven Wire Fence ————		Existing Right of Way Line ————	
roposed Chain Link Fence		Proposed Right of Way Line ————	$\frac{R}{W}$
roposed Barbed Wire Fence		Proposed Right of Way Line with	
Existing Wetland Boundary ————————————————————————————————————		Iron Pin and Cap Marker	W A
Proposed Wetland Boundary —————		Proposed Right of Way Line with	$ \begin{array}{c c} \hline & R \\ \hline & W \end{array} $
Existing Endangered Animal Boundary ———	EAB	Concrete or Granite R/W Marker Proposed Control of Access Line with	
Existing Endangered Plant Boundary ———		Concrete C/A Marker	\bigcirc
	—— HPB ————	Existing Control of Access	———(<u>\(\bar{C}\)</u> —
Known Soil Contamination: Area or Site ——	~ ~ ~	Proposed Control of Access ————	
Potential Soil Contamination: Area or Site —		Existing Easement Line	——E——
BUILDINGS AND OTHER CULT		Proposed Temporary Construction Easement –	——Е—
	_	Proposed Temporary Drainage Easement——	TDE
Gas Pump Vent or U/G Tank Cap ———— 	— O	Proposed Permanent Drainage Easement ——	PDE
Sign ————————————————————————————————————		Proposed Permanent Drainage / Utility Easemen	†DUE
Well —		Proposed Permanent Utility Easement ———	
Small Mine ————————————————————————————————————	-	Proposed Temporary Utility Easement ———	TUE
Foundation ————————————————————————————————————		Proposed Aerial Utility Easement ————	——AUE——
Area Outline ————————————————————————————————————		Proposed Parmanent Easement with	
Cemetery ————————————————————————————————————		Proposed Permanent Easement with Iron Pin and Cap Marker	
Building ————————————————————————————————————		ROADS AND RELATED FEATURE	ES:
School —		Existing Edge of Pavement ————	
Church ————————————————————————————————————		Existing Curb ————	
Dam ————————————————————————————————————		Proposed Slope Stakes Cut ————	<u>C</u>
HYDROLOGY:		Proposed Slope Stakes Fill ————	
Stream or Body of Water ———————		Proposed Curb Ramp ————	CR
Hydro, Pool or Reservoir ————————————————————————————————————		Existing Metal Guardrail ————	
Jurisdictional Stream	Js	Proposed Guardrail ————	
Buffer Zone 1 ———————————————————————————————————	BZ 1	Existing Cable Guiderail	
Buffer Zone 2 ———————————————————————————————————	— ——— BZ 2———	Proposed Cable Guiderail	
Flow Arrow ———————————————————————————————————	-	Equality Symbol	lacktriangle
Disappearing Stream ————————————————————————————————————	->	Pavement Removal ————	
Spring ————————————————————————————————————	-0	VEGETATION:	
Wetland ————————————————————————————————————	- *	Single Tree	£
Proposed Lateral, Tail, Head Ditch ————	FLOW	Single Shrub	\$
False Sump ————————————————————————————————————	$\overline{}$	Hedge ———	······································
		Woods Line —	
		-	

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 ———	СВ
Paved Ditch Gutter	
Storm Sewer Manhole —	(S)
Storm Sewer —	s
UTILITIES:	
POWER:	
Existing Power Pole ————	•
Proposed Power Pole ————	6
Existing Joint Use Pole	
Proposed Joint Use Pole	-
Power Manhole ————	®
Power Line Tower ————	\boxtimes
Power Transformer ————	\square
U/G Power Cable Hand Hole	
H_Frame Pole ————	•—•
Recorded U/G Power Line ————	Р
Designated U/G Power Line (S.U.E.*)	P
TELEPHONE:	
Existing Telephone Pole —————	-
Proposed Telephone Pole ————	-0-
Telephone Manhole ————————————————————————————————————	\bigcirc
Telephone Booth ————	3
Telephone Pedestal —————	
Telephone Cell Tower ————————————————————————————————————	,
U/G Telephone Cable Hand Hole ————	HH
Recorded U/G Telephone Cable ————	т——т
Designated U/G Telephone Cable (S.U.E.*)—	
Recorded U/G Telephone Conduit ———	тс
Designated U/G Telephone Conduit (S.U.E.*)	
Recorded U/G Fiber Optics Cable ———	т го
Designated U/G Fiber Optics Cable (S.U.E.*)	— — —т F0— — -

Water Manhole —————	W
Water Meter —	0
Vater Valve —————	\otimes
Water Hydrant ——————	ф
Recorded U/G Water Line ————	
Designated U/G Water Line (S.U.E.*)	
Above Ground Water Line —————	A/G Water
/ :	
V Satellite Dish —————	
V Pedestal ——————	
V Tower—	\otimes
J/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.*)—	- — — TV F0— — —
A C .	
AS:	^
Gas Valve	♦
Gas Meter ———————————————————————————————————	♦
Recorded U/G Gas Line (S.U.E.*)	
Designated U/G Gas Line (S.U.E.*)———————————————————————————————————	
Above Ground Gas Line	
ANITARY SEWER:	
Sanitary Sewer Manhole —————	•
Sanitary Sewer Cleanout —————	(+)
J/G Sanitary Sewer Line ————	
Above Ground Sanitary Sewer ————	
Recorded SS Forced Main Line————	
Designated SS Forced Main Line (S.U.E.*) —	————FSS————
ISCELLANEOUS:	_
Jtility Pole ————————————————————————————————————	•
Jtility Pole with Base ————————————————————————————————————	_
Jtility Located Object ————————————————————————————————————	
Jtility Traffic Signal Box ———————————————————————————————————	
J/G Tank; Water, Gas, Oil ———————————————————————————————————	
Jnderground Storage Tank, Approx. Loc. —	(UST)
√G Tank; Water, Gas, Oil —————	
Geoenvironmental Boring ————————————————————————————————————	
J/G Test Hole (S.U.E.*)	•
Abandoned According to Utility Records —	☎ AATUR
and of Information ————————————————————————————————————	
	E. U .I.

WATER:

DocuSign Envelope ID: 7F140931-6487-436D-ACF5-D43E337830CD

SURVEY CONTROL SHEET 49-0135

PROJECT REFERENCE NO. SHEET NO.

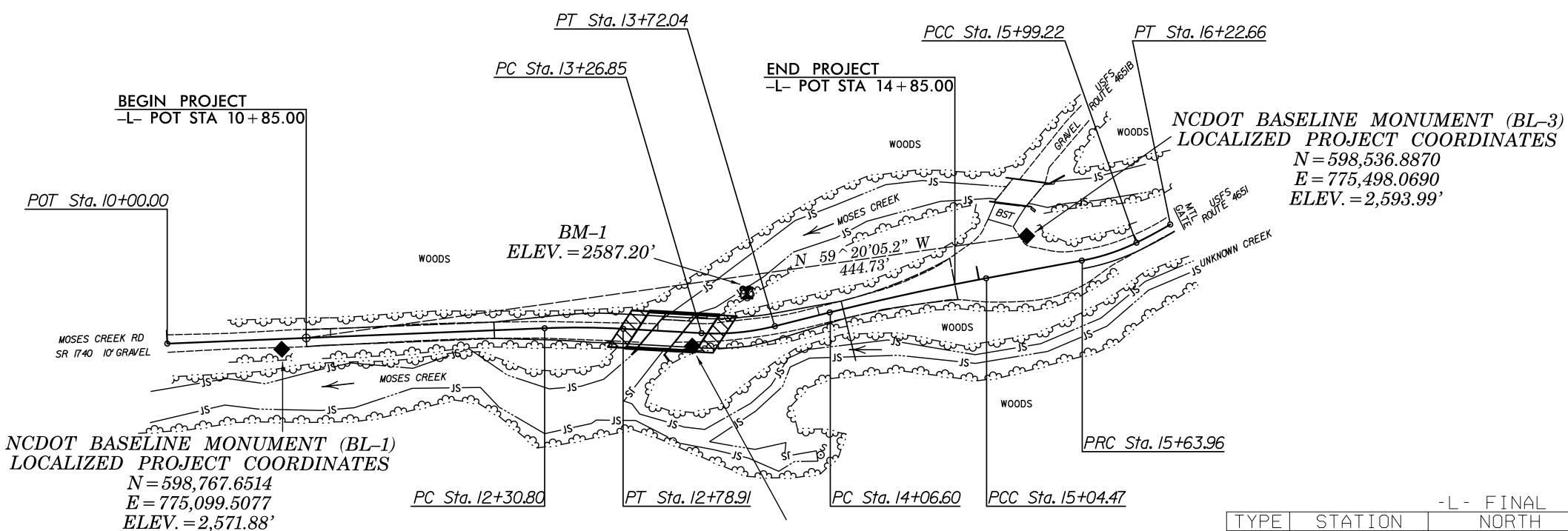
49–0135 1C–1

Location and Surveys

-FINAL-

BL POINT	DESC.	NORTH	EAST	ELEVATION	L STATION	OFFSET
1	BL - 1	598767.6514	775Ø99.5Ø77	2571.88	10+69.76	6.33 RT
2	BL-2	598612.1994	775296.5213	2585.46	13+21.64	8.21 RT
3	BL-3	598536.887Ø	775498.0690	2593.99	15+33.53	20.90 LT
	******	****				
	ATION = 2587.20'					
N 598616.61	E 775342.88					
	8.27 23.27' LEFT					
RR SPIKE IN 2"	HICKORY TREE					

	-FINAL- RO	<u>dw marker if</u>	<u>ron pin and ca</u>	AP - E
ALIGN	STATION	OFFSET	NORTH	EAST
L	11+80.00	-8.99	598714.5812	775197.3389
L	12+30.80	-20.00	598693.3111	775244.7646
L	12+78.91	-25.00	598665.4583	775286.8924
L	13+72.04	-20.00	598608.3141	775351.8552
L	14+85.00	-20.00	598559.0380	775454.5827
	14+85.00	-9.00	598549.2780	775449.5090
L	14+85.00	9.00	598533.3071	775441.2065
L	14+85.00	18.00	598525.3217	775437.0553
	14+06.60	18.00	598559.3651	775367.4245
	13+26.85	25.00	598596.2258	775289.1812
L	12+78.91	25.00	598628.2441	775253.4993
L	12+30.80	20.00	598661.1109	775221.0338
L	11+80.00	9.09	598700.0301	775186.6151



-L- FINAL STATION NORTH EAST 598814.1351 775Ø47.1Ø64 10+00.00 598677.2103 775232.8987 12+30.80 775270.1953 12+78.91 598646.8505 775305.8773 598614.8323 13+26.85 13+72.04 598590.1347 775343.5160 598575.7252 775374.9289 14+06.60 775462.5798 15+04.47 598532.2043 598504.0660 775514.9855 15+63.96 15+99.22 775547.9117 598491.7310

598487.4889

775570.9496

DATUM DESCRIPTION

THE LOCALIZED COORDINATE SYSTEM DEVELOPED FOR THIS PROJECT IS BASED ON THE STATE PLANE COORDINATES ESTABLISHED BY NCGS FOR MONUMENT "49-0135 BL-3"

WITH NAD 83/NSRS 2007 STATE PLANE GRID COORDINATES OF NORTHING: 598536.8870(ft) EASTING: 775498.0690(ft) ELEVATION: 2593.99(ft)

THE AVERAGE COMBINED GRID FACTOR USED ON THIS PROJECT (GROUND TO GRID) IS: 0.99975402

THE N.C. LAMBERT GRID BEARING AND LOCALIZED HORIZONTAL GROUND DISTANCE FROM "49-0135 BL-3" TO -L- STATION 10+85.00 IS N 59° 20′ 05.2" W 444.73′

ALL LINEAR DIMENSIONS ARE LOCALIZED HORIZONTAL DISTANCES

VERTICAL DATUM USED IS NAVD 88

GEOID MODEL - G09NC NOTE: DRAWING NOT TO SCALE

NCDOT BASELINE MONUMENT (BL-2)

LOCALIZED PROJECT COORDINATES

N = 598,612.1994

E = 775,296.5213

ELEV. = 2,585.46

NOTES:

1. THE CONTROL DATA FOR THIS PROJECT CAN BE FOUND ELECTRONICALLY BY SELECTING PROJECT CONTROL DATA AT:

HTTPS://CONNECT.NCDOT.GOV/RESOURCES/LOCATION/

16+22.66

THE FILES TO BE FOUND ARE AS FOLLOWS: 49-0135_LS_CONTROL.TXT

SITE CALIBRATION INFORMATION HAS NOT BEEN PROVIDED FOR THIS PROJECT. IF FURTHER INFORMATION IS NEEDED, PLEASE CONTACT THE LOCATION AND SURVEYS UNIT.

Z:C/:U6 FM R:\Roadway\Proj\49Ø135_ls_1c-1.dgn DobsonJ2 DocuSign Envelope ID: 7F140931-6487-436D-ACF5-D43E337830CD

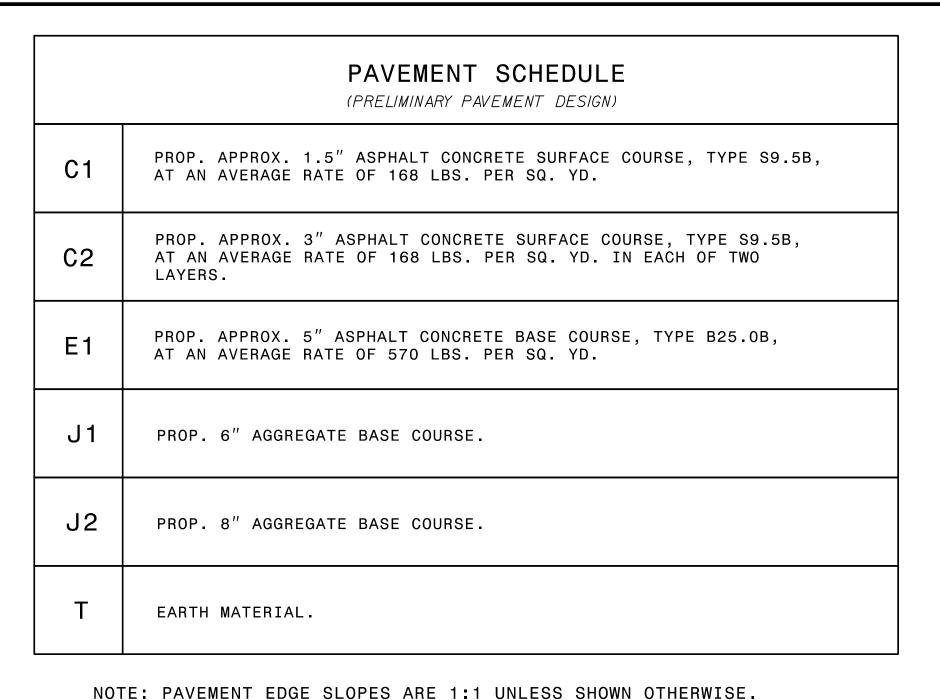
CENTERLINE COORDINATE LIST

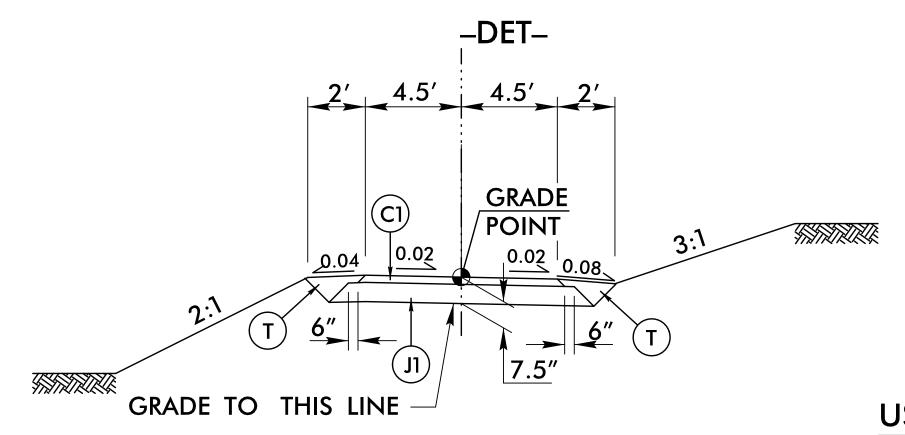
Point #	Chain	Station	Northing (Y)	Easting (X)	Point #	Chain	Station	Northing (Y)	Easting (

NOSECT REFERENCE TIO	•	011EE1 110:
17BP.14.R.62		1–D
R/W SHEET N	10.	
DADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

# Chain	Station 10+00.00	Northing (Y) 598814.1351	Easting (X) 775047.1064	Point # Ch	nain Station	Northing (Y)	Easting (X)	Point #	Chain	Station Nort	ning (Y) Ea	sting (X)	Point #	Chain	Station	Northing (Y)	Easting (X)	Point #	Chain	Station	Northing (Y)	Easting (>
L	11+00.00	598754.8081	775127.6068						<u> </u>													
L	12+00.00	598695.4811	775208.1072																			
L	13+00.00	598632.7629	775285.8949																			
L	14+00.00	598578.4757	775368.9328																			
L	15+00.00 16+00.00	598534.3105 598491.5603	775458.6335																			
L	16+22.66	598487.4889	775548.6688 775570.9496																			
	1 2 2 2 3 3																					
DET	10+00.00	598692.5475	775211.9972																			
DET	11+00.00	598619.1831	775279.3176																			
DET	12+00.00	598574.3461	775366.4070																			
DET	12+35.12	598564.0177	775399.8784																			
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TYPICAL SECTION NO. 1

-DET- (DETOUR)

PROJECT REFERENCE NO.

17BP.14.R.62

RW SHEET NO.

ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

PROJECT REFERENCE NO.

ROADWAY DESIGN
ENGINEER

PAVEMENT DESIGN
ENGINEER

Prepared in the
Office of:

NC FIRM LICENSE No: F-0342
TOI Corporate Center Drive, Suite 475
(919) 854-6200 - (919) 854-6259(FAX)

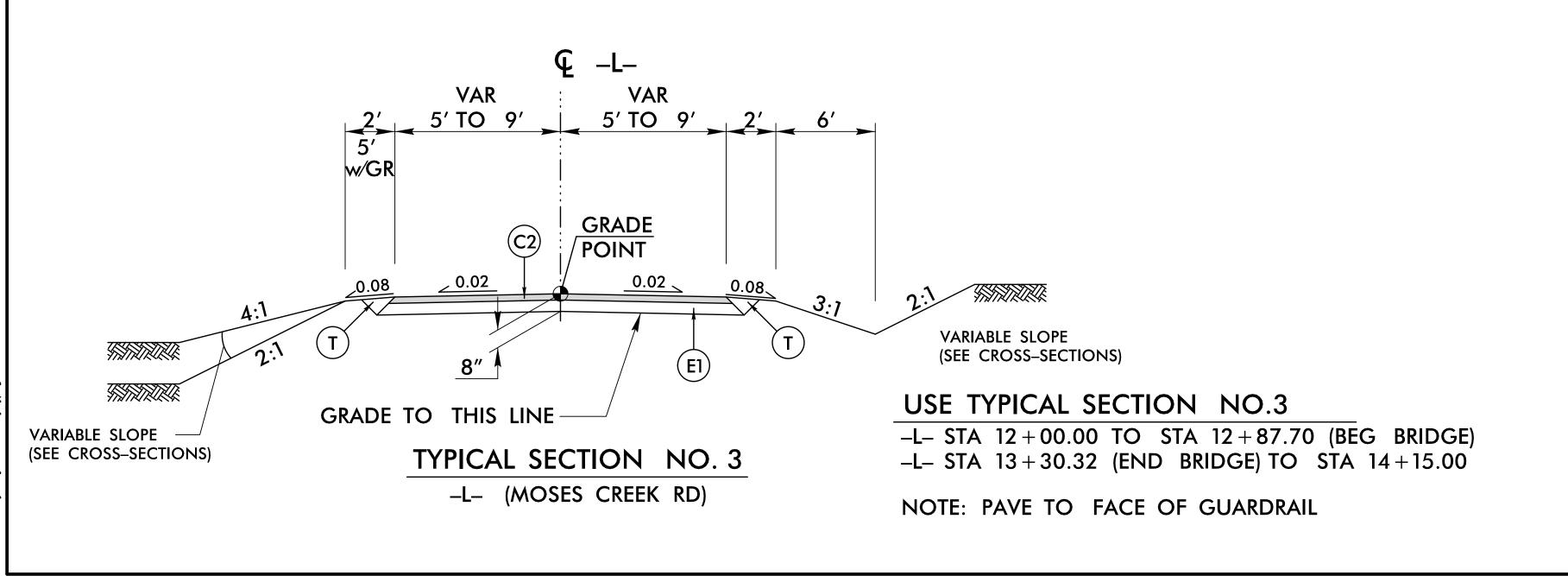
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

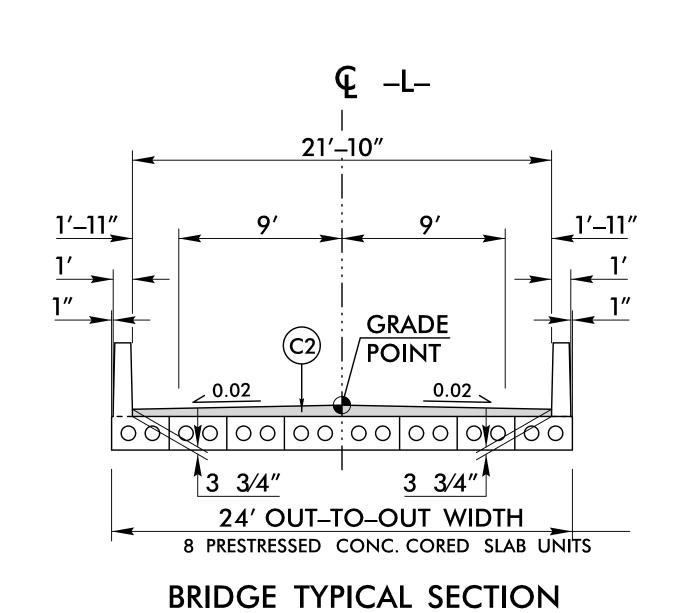
USE TYPICAL SECTION NO. 1

-DET- STA 9+96.72 TO STA 12+35.12

VAR __5' TO EXIST_ | 5' TO EXIST. | 2' | 6' **GRADE** POINT _ 0.02 0.02 2:1 VARIABLE SLOPE (SEE CROSS-SECTIONS) USE TYPICAL SECTION NO.2 GRADE TO THIS LINE --L- STA 10+85.00 TO STA 12+00.00 VARIABLE SLOPE (SEE CROSS-SECTIONS) TYPICAL SECTION NO. 2 -L- STA 14+15.00 TO STA 14+85.00

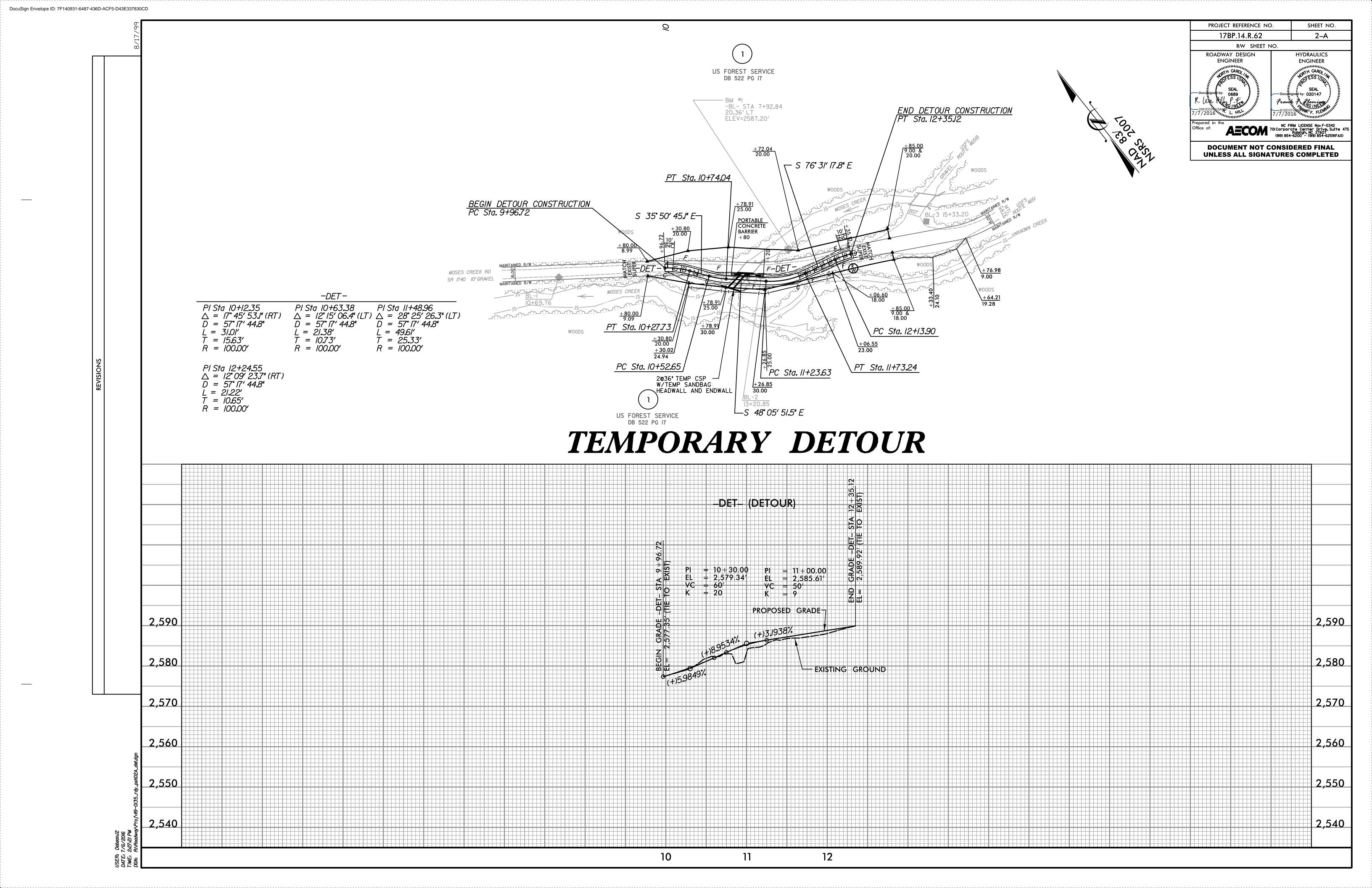
-L- (MOSES CREEK RD)





USE BRIDGE TYPICAL SECTION

-L- STA 12+87.70 (BEG BRIDGE) TO STA 13+30.32 (END BRIDGE)



	SUMMARY OF EARTHWORK											
LINE	STATION TO STATION	Uncl. Excav.	Embank.	Borrow	Waste							
-DET-	9+96.72 Tto12+35.12	48	95	47	0							
Summary No.1 Suk		48	95	47	0							
-L- Left	10+85.00 to 12+87.70 BEGIN BRIDGE	10	40	30	0							
-L- Left	13+30.32 END BRIDGE to 14+85.00	14	39	25	0							
Summary No.2 Sub	ototal	24	79	55	0							
-L- Right	10+85.00 to 12+87.70 BEGIN BRIDGE	13	34	21	0							
-L- Right	13+30.32 END BRIDGE to 14+85.00	6	16	10	0							
Detour Removal	10+00.00 to 12+33.95	79	58	0	21							
Summary No.3 Sub	ototal	98	108	31	21							
TOTAL		170	282	132	21							
ADJUSTMENTS D	UE TO			1								
Est. Loss Due To	Clearing And Grubbing	-50		50								
Shoulder Material			0	0								
Earth Waste to Re	•			-21	-21							
PROJECT TOTAL		120	282	161	0							
<u> </u>	e Topsoil in Borrow Pits			8	<u> </u>							
GRAND TOTAL		120	Τ '	169								

0 CY 50 CY

50 CY

150

PROJECT REFERENCE NO) .	SHEET NO.
17BP.14.R.62		3–A
R/W SHEET N	10.	
ROADWAY DESIGN ENGINEER ENGINEER SEAL Document by: 0689 K. Ling And Colombian Colo		HYDRAULICS ENGINEER ENGINEER SEAL GREAT GREAT
Prepared in the Office of:	NC FI 701 Corpord (919) 854	RM LICENSE No: F-0342 ate Center Drive, Suite 475 Raleigh, NC 27607 -6200 - (919) 854-6259(FAX)
DOCUMENT NOT C	ONSI	DERED FINAL

Approximate quantities only. Unclassified excavation, borrow excavation, shoulder borrow, fine grading, clearing and grubbing will be paid for at the lump sum price for "Grading".

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

Note: Invert Elevations indicated are for Bid Purposes only and shall not be used for project construction stakeout.

See "Standard Specifications For Roads and Structures, Section 300-5".

Est. Drainage Ditch Excav.

Select Granular Material

Estimate Undercut

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

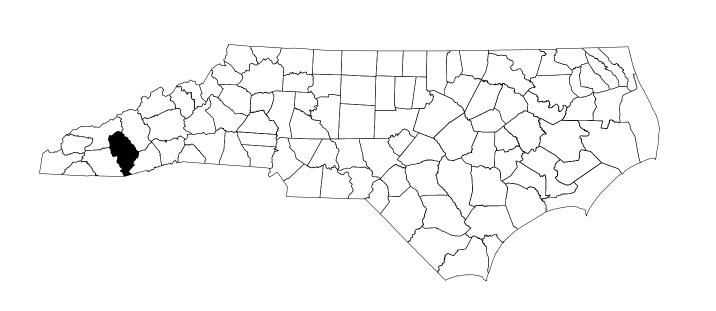
210

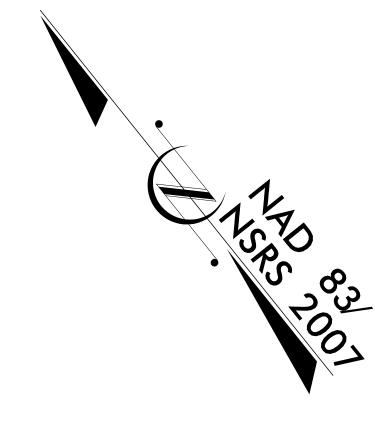
NOILALS (LT, RT, OR CL)'	STRUCTURE NO.	TOP ELEVATION	INVERT ELEVATION	INVERT ELEVATION	SLOPE CRITICAL	(I	RCP, CSF	DRAINA P, CAAP,							C.S. F	PIPE					R.C. F						R.C. PI CLASS			NOISE GOTO AGTINO	CONTRACTOR DESIGN		STD 838 STD (UI	0. 838.01 8.11 OR 0. 838.80 NLESS OTED ERWISE	QUANTITIES	FOR DRAINAGE STRUCTURES	OTA	QUANTITY SHALL BE COL 'A' + (1.3 X COL.'B')	A	FRAME GRATES AND HOC TANDAF 840.03	, DD RD	CONCRETE TRANSITIONAL SECTION	40.15	TD. 840.16 7 OR 840.26	8 OR 840.27	9 OR 840.28 E STD. 840.20	SRATES STD. 840.22 GRATE STD. 840.24	TWO GRATES STD. 840.24		S NO. & SIZE		G, C.Y. STD. 840.71	C.Y. STD. 840.72			C.B. N.D.I. D.I. G.D.I. G.D.I.(N.	(CATCH BASIN NARROW DRO INLET DROP INLET GRATED DROP IN (NARROW SLO	OP T INLET OT)
SIZE SIZE					12"	15" 18"	24" 30'	" 36" 4	12" 48"	RCP	CAAP	HDPE	12" 15	5" 18"	24''	36	6" 42"	48" 1	12'' 15'	18"	24" 30	36''	42"	48" 12	2" 15"	18"	24'' 30''	36" 4		LASS V)	VERTS, C	PPE PPE	CU.	YARDS		<u> </u>	FT.	т. В	OR STD.				OR STD. 8	GRATE S STD. 840.1	STD. 840.1	STD. 840.1 TH GRAT	TH TWO (ME WITH	OK 840.3	E ELBOW\$		PIPE PLU	S CL. "B"		LIN. FT.	J.B. M.H. T.B.D.I		JUNCTION BO MANHOLE TRAFFIC BEARI	RING
THICKNESS OR GAUGE	FROM									DO NOT USE	DO NOT USE	DO NOT USE	.064	.064	.064	9 <u>7</u> 0.	.109	.109												" R.C. PIPE (C	3 3	" SIDE DRAIN			ER FACH (0' TH	0. THRU 10.0'		i.oʻ AND 3OVE	B. STD. 840.01	TYPE OF	SOP INI ET	ATCH BASIN	I. STD. 840.14 (I. FRAME AND D.I. TYPE "A"	D.I. TYPE "B"	D.I. TYPE "D" {	D.I. FRAME WI	D.I. (N.S.) FRA	8. 51 D. 840)RAINAGE PIPI		ONC. & BRICK	ONC. COLLARS		PE REMOVAL I	T.B.J.B		DROP INLET TRAFFIC BEARI JUNCTION BO	RING
-DET- 10+86 CL	 				+			+		 	+	\vdash	_				24	\vdash		+ +	_		\vdash		_				_	* ‡	*	15 15	-		<u>_</u>	5.	5 5	A 4	ပ် E	F	G Z	<u> </u>		<u>ට</u> ල	<u>ල</u>	<u>ධ</u>	<u>ග්</u> ය	<u> </u> <u> </u> <u> </u>	<u>5</u>		+	ŭ	<u>ö</u>	+			REN	MARKS	
-DET- 10+93 CL				-	+			+++		+		+				2	24			+ +			+										1							+	-				+									+					-+11
-DET- 10+86 CL																																																								REMOVE 36"			
-DET- 10+93 CL SHEET TOTALS																																																							24	REMOVE 36"	TEMP PIP	E	

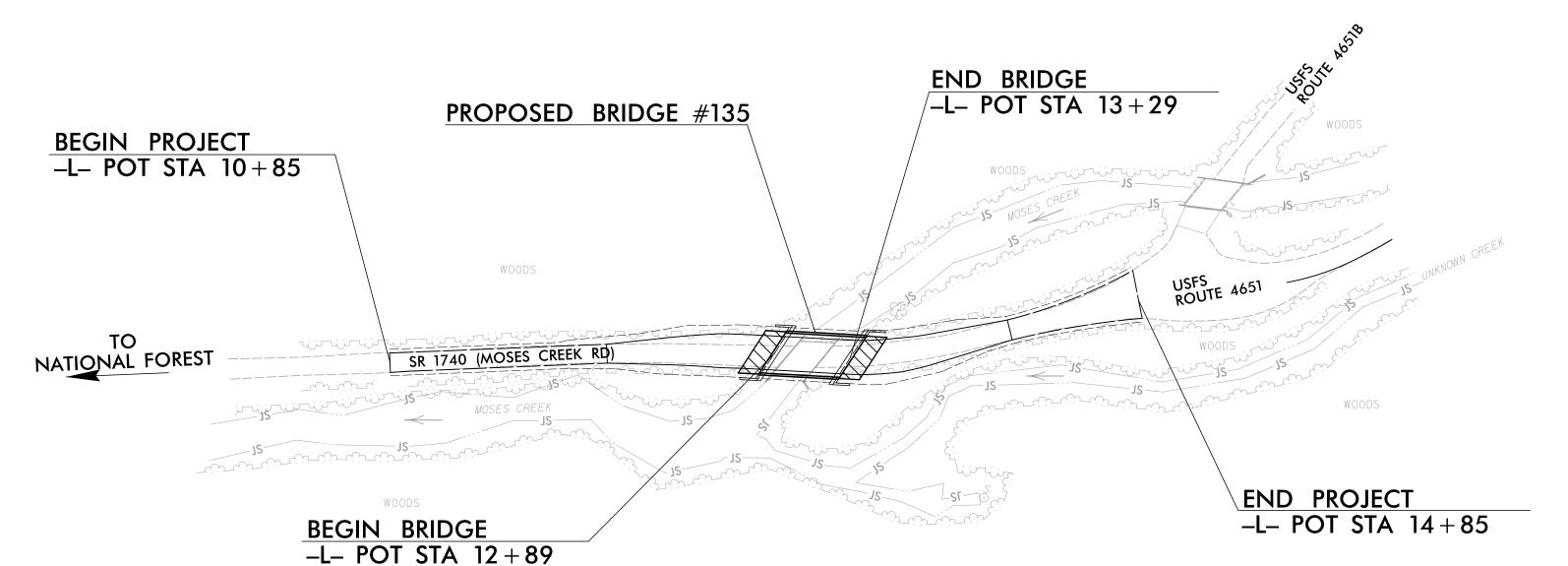
TAL CHOLLIDED A	MDTH = DISTANCE FROM E	DGE OF TRAVEL I AND	TO SHOULDED	DDE AK DOINT																					
	STANCE FROM LAST SECT			OF GUARDRAII																					
= TOTAL WIDTH O	F FLARE FROM BEGINNING	OF TAPER TO END OF	GUARDRAIL.						GUAR	DD X	ATT C	TTRAR	(7											
= GATING IMPACT	ATTENUATOR TYPE 350								JUAK	DNA	AIL 3	UIVIIV		•											
G = NON-GATING II	IPACT ATTENUATOR TYPE	350																							
					LENGTH		WARRA	NT POINT	"N" DIST T	OTAL	FLARE	LENGTH	1	N			Α	NCHORS				IMP. A	ATTEN.	REMOVE	REMARKS
LINE	BEG. STA.	END STA.	LOC.	STRAIGHT	SHOP	DOUBLE	APPR.	TRAIL.	FROM S	HLDR	APPR.	TRAIL.	APPR.	TRAIL.	TYPE	TYPE	GRAU	M-350	AT-1	CAT-1	TES	TYP	E 350	EXISTING	
					CURVED	FACED	END	END	E.O.L. W	WIDTH	END	END	END	END	III	TL-2	350					EA (G NG	GRDRAIL	
L	12+44.00	12+94.00	LT	50.00				12+94.00							1	1									
L	13+37.35	13+87.35	LT	50.00			13+37.35								1	1									
L	12+31.40	12+81.40	RT	50.00			12+81.40								1	1									
L	13+24.00	13+74.00	RT	50.00				13+24.00							1	1									
			SUBTOTAL	200.00											4	4					Ī				
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			SAY	37 50																					

TRANSPORTATION MANAGEMENT PLAN

JACKSON COUNTY







INDEX OF SHEETS

SHEET NO.

TITLE TMP - 1 TITLE SHEET, AND INDEX OF SHEETS

TMP-1A GENERAL NOTES

TMP-2 TEMPORARY TRAFFIC CONTROL PHASE I DETAIL TMP-3 TEMPORARY TRAFFIC CONTROL PHASE II DETAIL TEMPORARY TRAFFIC CONTROL PHASE III DETAIL TMP-4

NOTE: WRITTEN PHASING FOR THE TRAFFIC CONTROL PLAN

APPEARS ON THE OVERVIEW SHEETS

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:

TITLE STD.NO.

WORK ZONE WARNING SIGNS 1101.01

TEMPORARY SHOULDER CLOSURES 1101.04

TEMPORARY LANE CLOSURES

WORK ZONE VEHICLE ACCESSES

TRAFFIC CONTROL DESIGN TABLES

STATIONARY WORK ZONE SIGNS

1110.02 PORTABLE WORK ZONE SIGNS

DRUMS 1130.01

1101.02

1101.05

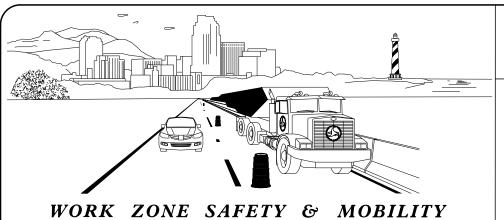
1160.01 TEMPORARY CRASH CUSHION

1170.01 PORTABLE CONCRETE BARRIER

1205.01 PAVEMENT MARKINGS - LINE TYPES AND OFFSETS

PAVEMENT MARKINGS - TWO LANE AND MULTILANE ROADWAYS 1205.02

PAVEMENT MARKINGS - BRIDGES 1205.12



"from the MOUNTAINS to the COAST"

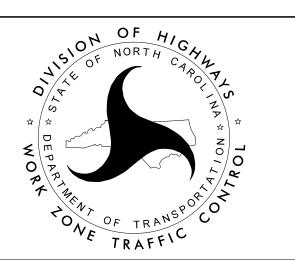
N.C.D.O.T. WORK ZONE TRAFFIC CONTROL 1561 MAIL SERVICE CENTER (MSC) RALEIGH, NC 27699-1561 750 N. GREENFIELD PARKWAY, GARNER, NC 27529 (DELIVERY)
PHONE: (919) 773-2800 FAX: (919) 771-2745

J. S. BOURNE, P.E. STATE TRAFFIC MANAGEMENT ENGINEER

K.J. VAN METRE, PE TRAFFIC CONTROL PROJECT ENGINEER

T.E. HILDEBRAND, PE TRAFFIC CONTROL PROJECT DESIGN ENGINEER

TRAFFIC CONTROL DESIGN ENGINEER





APPROVED: Kevin J. Van Metre, P.E. DATE: 7/7/2016

SEAL

EC

SHEET NO.

TMP-1

62

PROJ. REFERENCE NO. SHEET NO. 17BP.14.R.62 TMP-1A

GENERAL NOTES

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.

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.

TIME RESTRICTIONS

ROAD NAME

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

DAY AND TIME RESTRICTIONS

MOSES CREEK RD 7:00AM - 9:00AM AND 4:00PM - 6:00PM, MONDAY THRU FRIDAY.

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL **EVENTS AS FOLLOWS:**

MOSES CREEK RD

TO BE DETERMINED BY DIVISION PERSONNEL.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- 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.
- 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 USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ADJACENT TO A DIVIDED FACILITY AND WITHIN 10 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY STANDARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

- WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL OF AN UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO THE TRAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED BY THE ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- F) DO NOT WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN TRAVELWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED WITH GUARDRAIL OR BARRIER.
- G) PROVIDE TRAFFIC CONTROL FOR APPROPRIATE LANE CLOSURES FOR SURVEYING DONE BY THE DEPARTMENT.

PAVEMENT EDGE DROP OFF REQUIREMENTS

BACKFILL AT A 6:1 SLOPE UP TO THE EDGE AND ELEVATION OF EXISTING PAVEMENT IN AREAS ADJACENT TO AN OPENED TRAVEL LANE THAT HAS 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.

I) DO NOT EXCEED A DIFFERENCE OF 2 INCHES IN ELEVATION BETWEEN OPEN LANES OF TRAFFIC FOR NOMINAL LIFTS OF 1.5 INCHES. INSTALL ADVANCE WARNING "UNEVEN LANES" SIGNS (W8-11) 100 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

J) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.

SIGNING

- K) INSTALL ADVANCE WORK ZONE WARNING SIGNS WHEN WORK IS WITHIN 40 FT FROM THE EDGE OF TRAVEL LANE AND NO MORE THAN THREE (3) DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- PROVIDE SIGNING AND DEVICES REQUIRED TO CLOSE THE ROAD ACCORDING TO THE ROADWAY STANDARD DRAWINGS AND TRAFFIC CONTROL PLANS.

PROVIDE SIGNING REQUIRED FOR THE OFF-SITE DETOUR ROUTE AS SHOWN IN THE TRAFFIC CONTROL PLANS,

COVER OR REMOVE ALL SIGNS AND DEVICES REQUIRED TO CLOSE THE ROAD WHEN ROAD CLOSURE IS NOT IN OPERATION.

COVER OR REMOVE ALL SIGNS REQUIRED FOR THE OFF-SITE DETOUR WHEN THE DETOUR IS NOT IN OPERATION.

- ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- O) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

P) INSTALL TEMPORARY BARRIER ACCORDING TO THE TRANSPORTATION MANAGEMENT PLANS A MAXIMUM OF TWO (2) WEEKS PRIOR TO BEGINNING WORK IN ANY LOCATION. ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION PROCEED IN A CONTINUOUS MANNER TO COMPLETE THE PROPOSED WORK IN THAT LOCATION UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT PLACE BARRIER DIRECTLY ON ANY SURFACE OTHER THAN ASPHALT OR CONCRETE.

ONCE TEMPORARY BARRIER IS INSTALLED AT ANY LOCATION AND NO WORK IS PERFORMED BEHIND THE TEMPORARY BARRIER FOR A PERIOD LONGER THAN TWO (2) MONTHS, REMOVE / RESET TEMPORARY BARRIER AT NO COST TO THE DEPARTMENT UNLESS OTHERWISE STATED IN THE TRANSPORTATION MANAGEMENT PLANS, TEMPORARY BARRIER IS PROTECTING A HAZARD. OR AS DIRECTED BY THE ENGINEER.

INSTALL TEMPORARY BARRIER WITH THE TRAFFIC FLOW BEGINNING WITH THE UPSTREAM SIDE OF TRAFFIC. REMOVE TEMPORARY BARRIER AGAINST THE TRAFFIC FLOW BEGINNING WITH THE DOWNSTREAM SIDE OF TRAFFIC.

INSTALL AND SPACE DRUMS NO GREATER THAN TWICE THE POSTED SPEED LIMIT (MPH) TO CLOSE OR KEEP THE SECTION OF THE ROADWAY CLOSED UNTIL THE TEMPORARY BARRIER CAN BE PLACED OR AFTER THE TEMPORARY BARRIER IS REMOVED.

Q) PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER AT ALL TIMES DURING THE INSTALLATION AND REMOVAL OF THE BARRIER BY EITHER A TRUCK MOUNTED ATTENUATOR (MAXIMUM 72 HOURS) OR A TEMPORARY CRASH CUSHION.

PROTECT THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER FROM ONCOMING TRAFFIC AT ALL TIMES BY A TEMPORARY CRASH CUSHION UNLESS THE APPROACH END OF MOVABLE/PORTABLE CONCRETE BARRIER IS OFFSET FROM ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

> POSTED SPEED LIMIT MINIMUM OFFSET 40 OR LESS 15 FT 20 FT 45 - 50 25 FT 60 MPH or HIGHER 30 FT

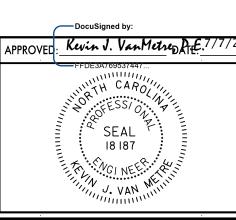
TRAFFIC CONTROL DEVICES

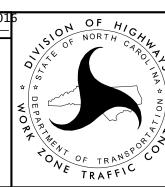
- R) WHEN LANE CLOSURES ARE NOT IN EFFECT SPACE CHANNELIZING DEVICES IN WORK AREAS NO GREATER IN FEET THAN TWICE THE POSTED SPEED LIMIT (MPH) EXCEPT, 10 FT ON-CENTER IN RADII, AND 3 FT OFF THE EDGE OF AN OPEN TRAVELWAY. REFER TO STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES SECTIONS 1130 (DRUMS), 1135 (CONES) AND 1180 (SKINNY DRUMS) FOR ADDITIONAL REQUIREMENTS.
- S) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- T) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.
- U) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING

MISCELLANEOUS

V) IN THE EVENT A TIE-IN CANNOT BE MADE IN ONE DAY'S TIME, BRING THE TIE-IN AREA TO AN APPROPRIATE ROADWAY ELEVATION AS DETERMINED BY THE ENGINEER. PLACE BLACK ON ORANGE "LOOSE GRAVEL" SIGNS (W8-7) AND BLACK ON ORANGE "PAVEMENT ENDS" SIGNS (W8-3) 50 FT AND 100 FT RESPECTIVELY IN ADVANCE OF THE UNEVEN AREAS. USE DRUMS TO DELINEATE THE EDGE OF ROADWAY ALONG UNPAVED AREAS.

Suite 475 Raleigh, NC 27607 Phone: 919-854-6200





GENERAL NOTES

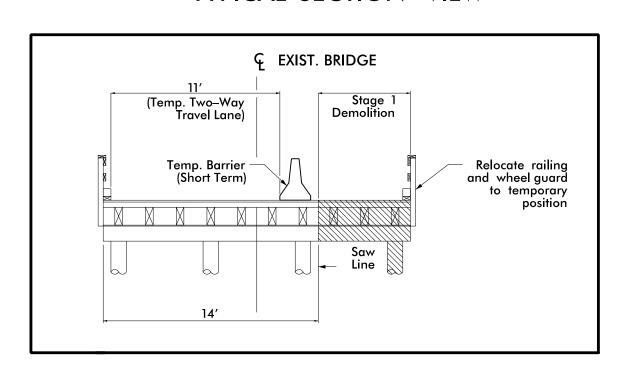
DATE: 7/6/2016 DESIGN BY: KJV

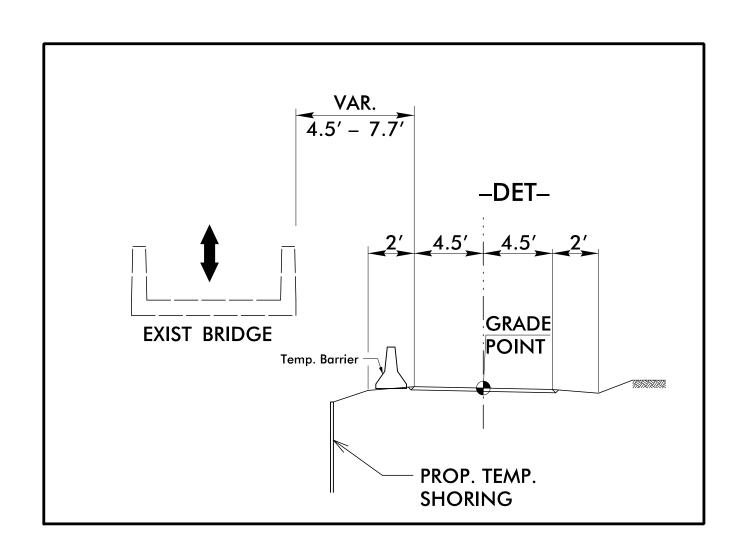
REVISIONS

NC Firm License No.: F-0342 701 Corporate Center Drive

17BP.14.R.62 W5-3 48'' X 48'' PROP. TEMP. IMPACT ATTENUATOR — PROP. TEMP. CONCRETE BARRIER PROP. TEMP. STA 14+17 IMPACT ATTENUATOR 200′ 200' STA 12 + 28 200' DETOUR ONE LANE — DETOUR SHORING

TYPICAL SECTION VIEW





PHASING NOTES

STAGE 1: INSTALL ADVANCED WARNING SIGNS AND TRAFFIC CONTOL DEVICES.

STAGE 2: REMOVE PART OF EXISTING BRIDGE, RELOCATE RAILING, AND PLACE TEMP. BARRIER.

STAGE 3: CONSTRUCT DETOUR AND INSTALL TEMP. SHORING.

LEGEND

EXISTING ROADWAY

PROPOSED CONSTRUCTION

COMPLETED ROADWAY

GRAPHIC SCALE
50 25 0 50 100

PLANS





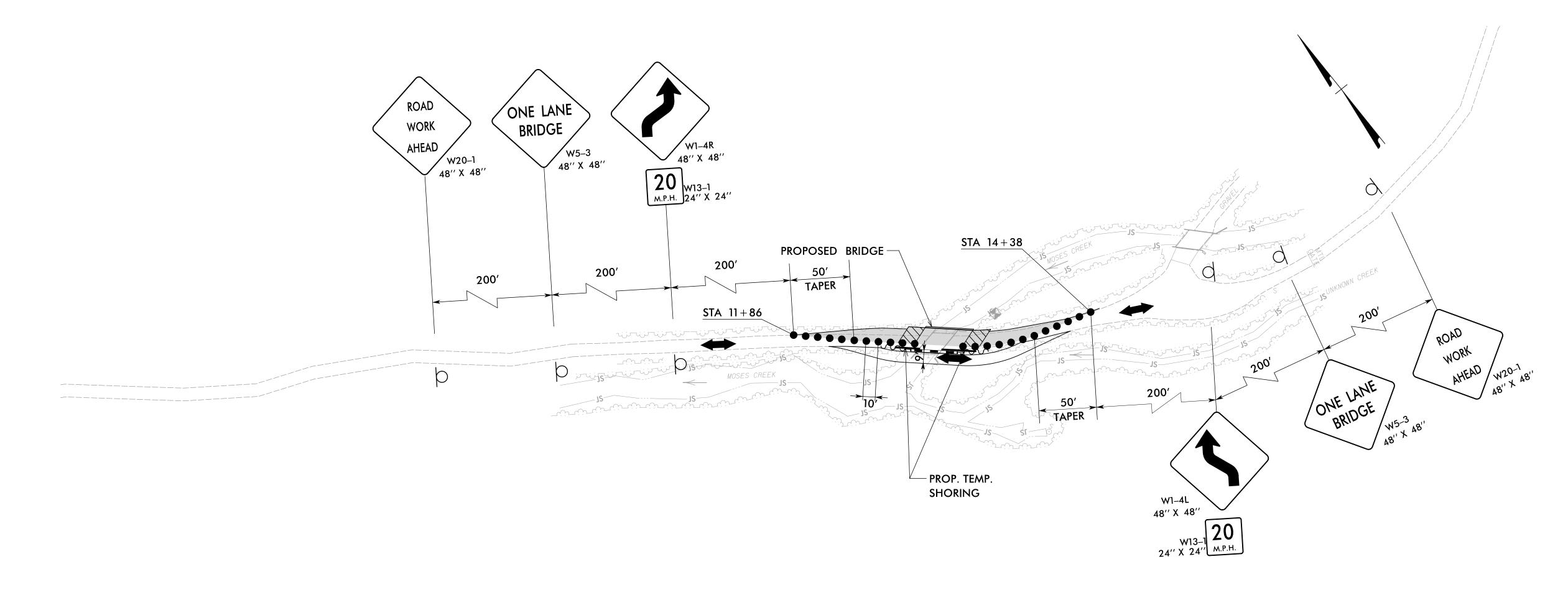


PHASE I DETAIL

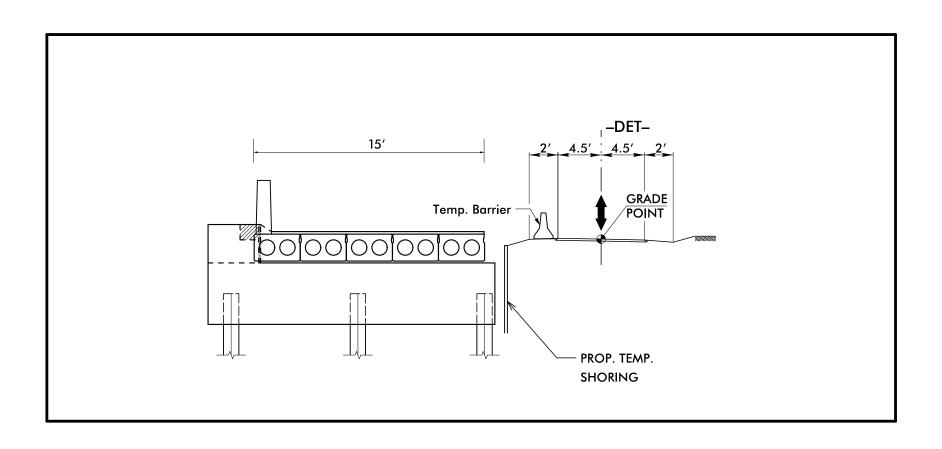
SCALE:
DATE: 7/6/2016
DWG. BY: TEH
DESIGN BY: KJV
REVIEWED BY:

REVISIONS

17BP.14.R.62



TYPICAL SECTION VIEW



PHASING NOTES

STAGE 1: RELOCATE ADVANCED WARNING SIGNS,

TRAFFIC CONTROL DEVICES AND INSTALL SHIFT SIGNS.

STAGE 2: SHIFT TRAFFIC TO DETOUR CONSTRUCTED DURING PHASE I.

DEMOLISH EXISTING BRIDGE. STAGE 3:

CONSTRUCT PART OF PROPOSED ROADWAY AND BRIDGE AS SHOWN. STAGE 4:

LEGEND

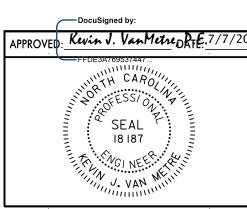
EXISTING ROADWAY

PROPOSED CONSTRUCTION

COMPLETED ROADWAY

GRAPHIC SCALE 50 25 0 PLANS

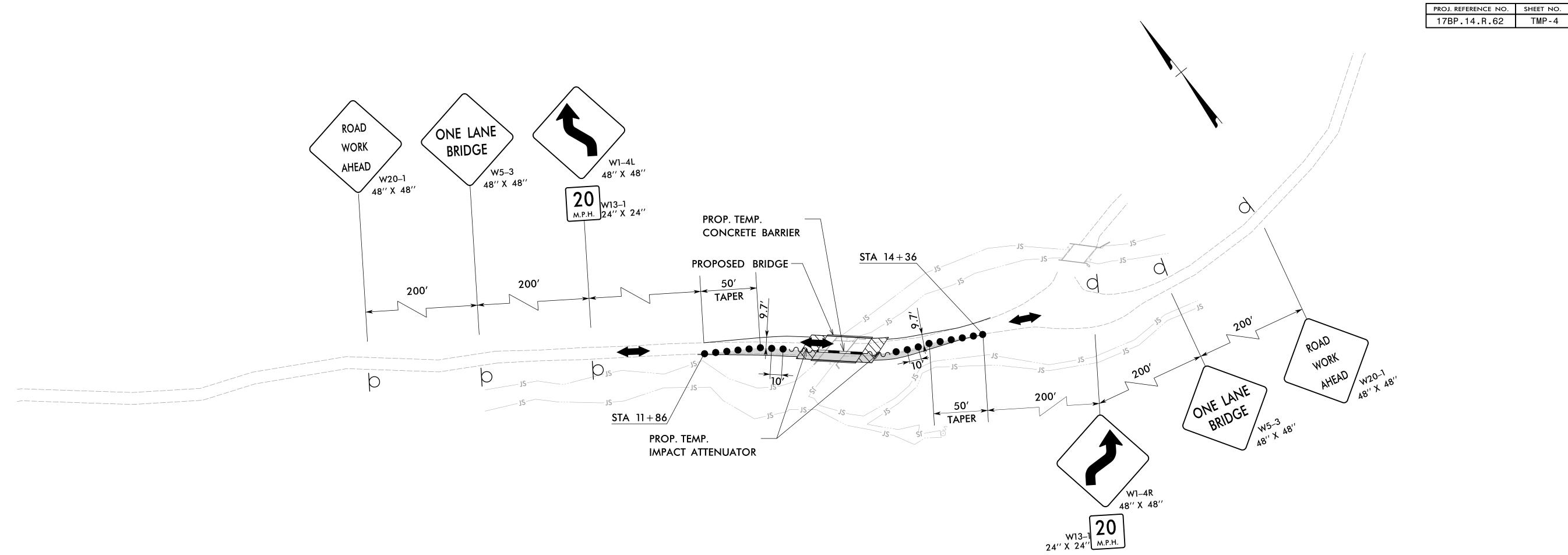




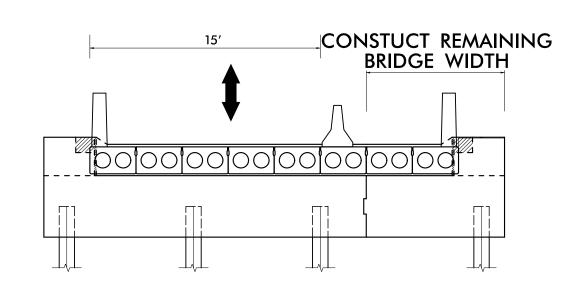


PHASE II DETAIL

DATE: 7/6/2016
DWG. BY: TEH
DESIGN BY: KJV
REVIEWED BY:



TYPICAL SECTION VIEW



PHASING NOTES

SHIFT TRAFFIC FROM DETOUR TO ROADWAY AND STAGE 1: BRIDGE CONSTRUCTED DURING PHASE II.

STAGE 2: CONSTRUCT REMAINING BRIDGE WIDTH.

STAGE 3: REMOVE DETOUR AND CONSTRUCT REMAINING ROADWAY.

STAGE 4: REMOVE ADVANCED WARNING SIGNS AND TRAFFIC CONTROL DEVICES.

STAGE 5: OPEN PROJECT TO FINAL TRAFFIC PATTERN.

LEGEND

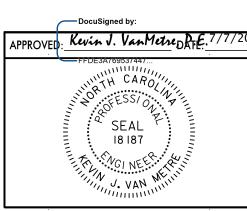
EXISTING ROADWAY

PROPOSED CONSTRUCTION

COMPLETED ROADWAY

GRAPHIC SCALE 50 25 0 PLANS



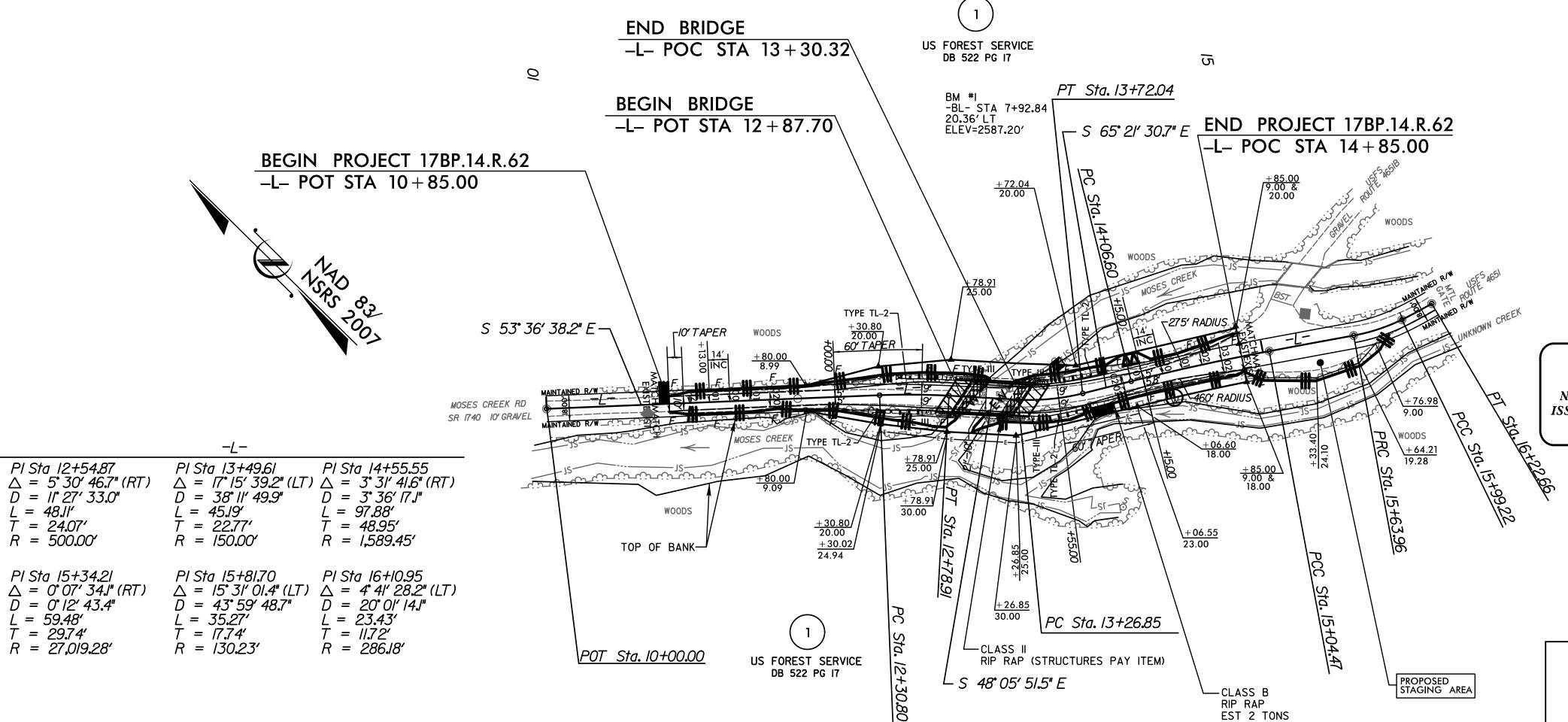




PHASE III **DETAIL**

DATE: 7/6/2016
DWG. BY: TEH
DESIGN BY: KJV

PROJECT REFERENCE NO. EC-1 17BP.14.R.62



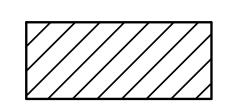
ROADSIDE ENVIRONMENTAL UNIT DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

2012 STANDARD SPECIFICATIONS

INSTALL CONCRETE WASHOUT STRUCTURES. LOCATION TO BE DETERMINED IN THE FIELD.

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.

> THIS PROJECT HAS BEEN DESIGNED TO SENSITIVE WATERSHED STANDARDS.



ENVIRONMENTALLY SENSITIVE AREA SEE PROJECT SPECIAL PROVISIONS

NOTES: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

> ADDITIONAL EROSION CONTROL DEVICES MAY NEED TO BE INSTALLED AS DIRECTED BY THE ENGINEER.

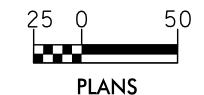
> > Rene Remy CPESC, CPSWQ LEVEL III NAME

3135

LEVEL III CERTIFICATION NO.

GRAPHIC SCALE

EST 7 SY GEOTEXTILE



1605.01	Temporary Silt Fence
1606.01	Special Sediment Control Fend
1607.01	Gravel Construction Entrance
1622.01	Temporary Berms and Slope
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

1604.01 Railroad Erosion Control Detail

2012 STANDARD DRAWINGS 1632.01 Rock Inlet Sediment Trap Type A Temporary Rock Silt Check Type A Temporary Rock Silt Check Type B 1634.01 Temporary Rock Sediment Dam Type A

1634.02 Temporary Rock Sediment Dam Type E 1635.01 Rock Pipe Inlet Sediment Trap Type A 1635.02 Rock Pipe Inlet Sediment Trap Type I 1640.01 Coir Fiber Baffle

1645.01 Temporary Stream Crossing

Description

1622.01

1630.02

1630.05

1630.06

1632.03

1633.01

1633.02

1635.01

Temporary Silt Fence.

Silt Basin Type B

Temporary Silt Ditch.

Temporary Diversion.

Special Stilling Basin

Excelsion Wattles

Special Sediment Control Fence ..

Temporary Berms and Slope Drains.

Rock Inlet Sediment Trap Type C

Temporary Rock Silt Check Type-A

Matting and Polyacrylamide (PAM)

Rock Pipe Inlet Sediment Trap Type-B

Temporary Rock Silt Check Type-A with

Temporary Rock Silt Check Type-B....

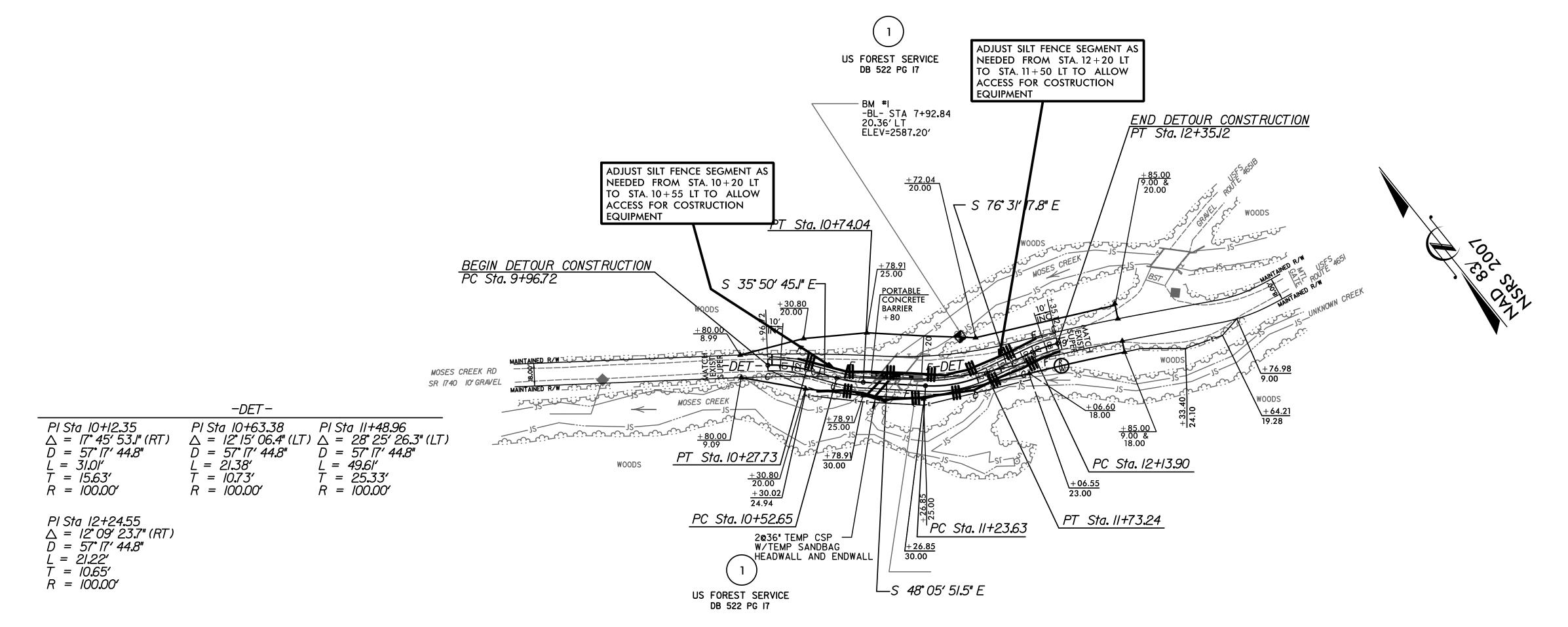
Symbol

— EW —

PROJECT REFERENCE NO. SHEET NO.

17BP.14.R.62 EC—2

Prepared in the Office of: AECOM TOLCOPPORTE GENTLE PLY 9, Sulte 475 (1919) 854-6250 (1919



<u>Std.</u> #	<u>Description</u> <u>Symbol</u>
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
1635.01	Rock Pipe Inlet Sediment Trap Type-B Excelsior Wattles — EW —

USEK: TBIIYI DATE: 6/16/2016 TIME: 8:59:31 AM DGN: R:\Environmental

PROJECT REFERENCE NO. SHEET NO.

17BP.14.R.62 EC—3

epared in the ffice of:

NC FIRM LICENSE No: F-0342
701 Corporate Center Dr. lve, Sulte 475
Releigh, NC 27607
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DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

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	I4 DAYS	7 DAYS FOR SLOPES GREATER THAN 50'IN LENGTH.
ALL OTHER AREAS WITH SLOPES FLATTER THAN 4:1	I4 DAYS	NONE, EXCEPT FOR PERIMETERS AND HQW ZONES.

USEK: Temyl DATE: 6/16/2016 TIME: 9:00:02 AM

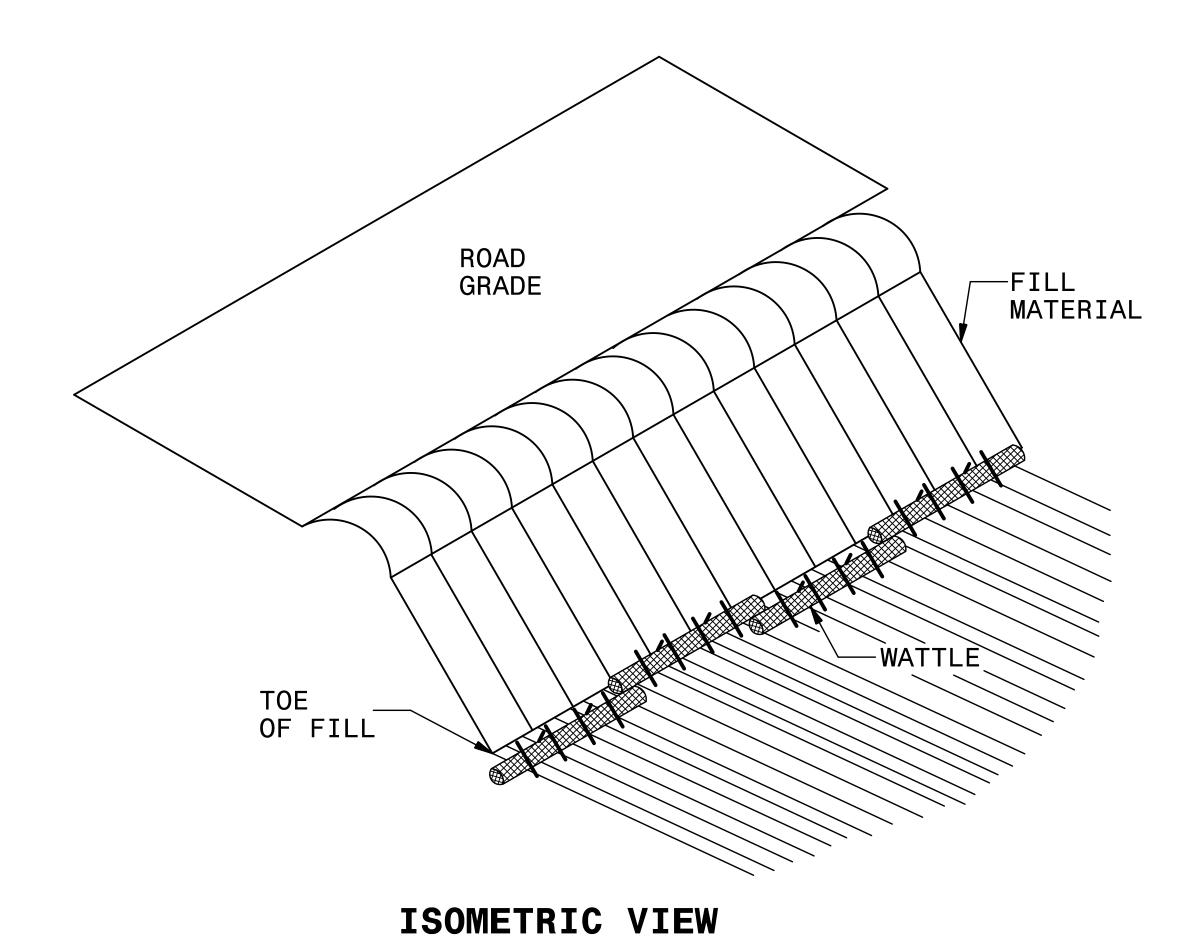
PROJECT REFERENCE NO. SHEET NO.

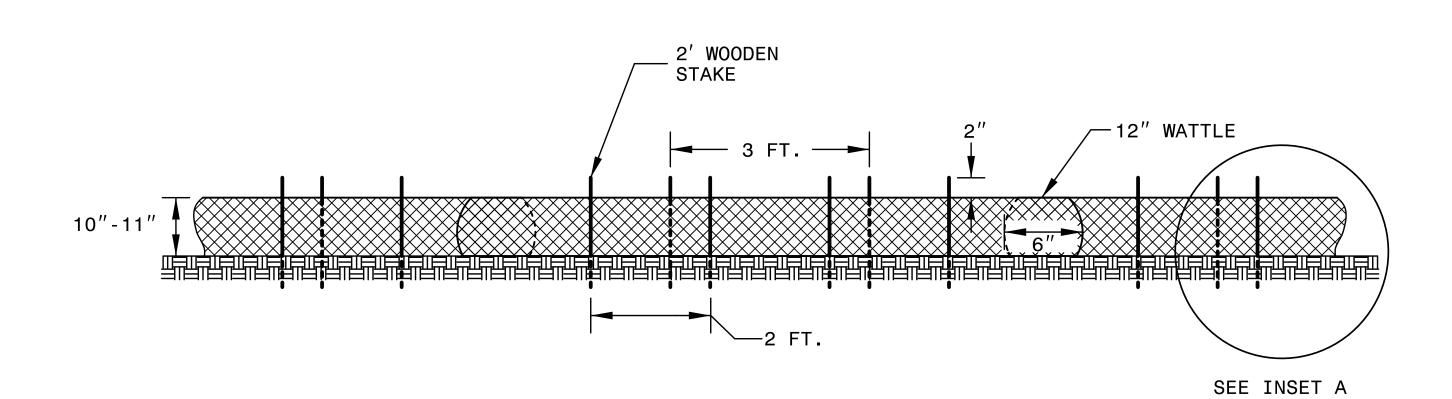
17BP.14.R.62 EC—4

Prepared in the Office of:

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WATTLE BARRIER DETAIL





FRONT VIEW

NOTES:

USE MINIMUM 12 IN. DIAMETER EXCELSIOR WATTLE AND LENGTH OF 10 FT.

EXCAVATE A 1 TO 2 INCH TRENCH FOR WATTLE TO BE PLACED.

DO NOT PLACE WATTLES ON TOE OF SLOPE.

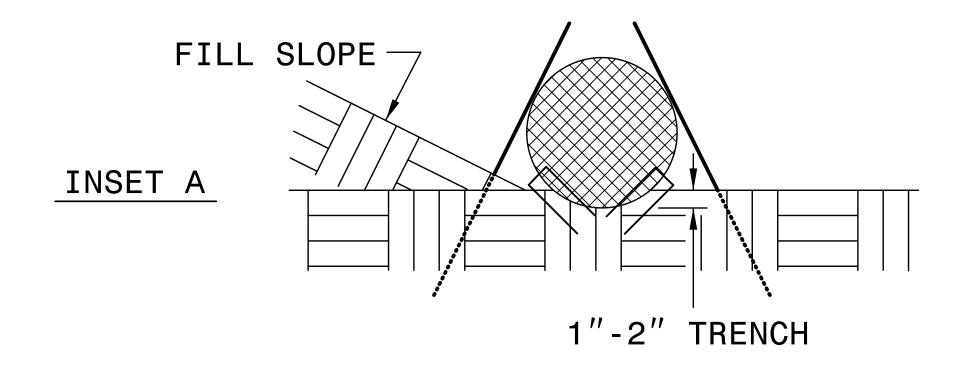
USE 2 FT. WOODEN STAKES WITH A 2 IN. BY 2 IN. NOMINAL CROSS SECTION.

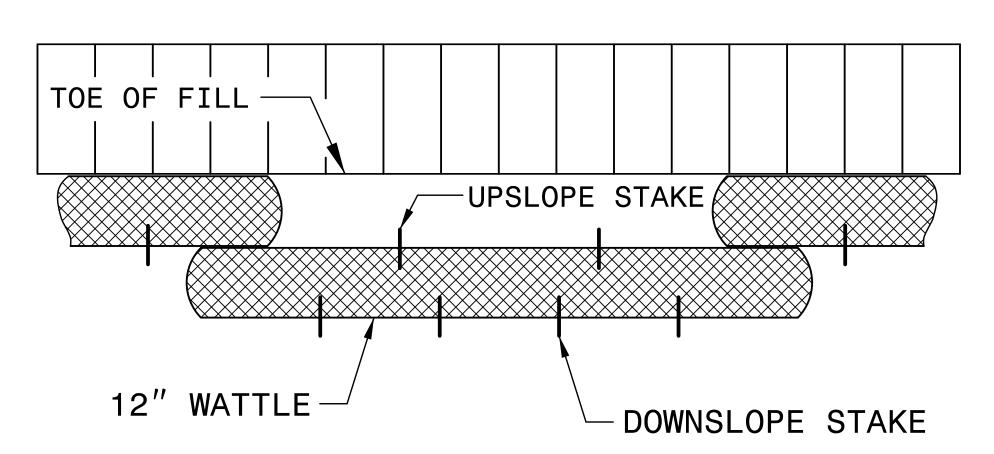
INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN ANGLE TO WEDGE WATTLE TO GROUND.

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.

FOR BREAKS ALONG LARGE SLOPES, USE MAXIMUM SPACING OF 20 FT.





TOP VIEW

OSLN: Teniyi DATE: 6/16/2016 TIME: 9:06:44 AM DGN: R:\Emilronmenta\Design\49