

\_\_\_\_\_

STATE OF N DIVISION	ORTH CAROLINA OF HIGHWAYS	state N.C. state pro 34445	STATE PROJECT REFERENCE NO.  SHEET NO.  TOTAL SHEETS    R-2518WM  OSM=1  16    N.NO.  F. A. PROJ. NO.  DESCRIPTION    .3.1
PLAN FOR ON-SIT MADISO	E MITIGATION N COUNTY	REPAIR	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
LOCATION: SITE IS SHAKE RA EAST C	ADJACENT TO US-19 AND G ROAD (SR 1517) OF MARS HILL		
TYPE OF WORK: STRE	AM REPAIR /RESTORATIO	Ν	
			1102/E8 QVN
US–1	9		TTT
DEDAIR	END SITE -PROP CL	<u>I REPAIR</u> - Sta. 6+46	
<u>REPAIR</u> /			
PROJECT LENGTH	PLANS PREPARED FOR THE NCDOT BY: Kimley	Horn ©2021 T DESIGN ENGINEER	DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA
MITIGATION TYPE LENGTH REPAIR / RESTORATION 575 LF	2015 STANDARD SPECIFICATIONS	Jason Lu Landid Lingth 1/16/2021 4FEAC9A7F9F946F	RE OF NORTH CAROLINA .
		P.E. SIGNATURE:	P.E. STATE HIGHWAY DESIGN ENGINEER

### GENERAL NOTES

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ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING ST A) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFIC. AND STRUCTURES, DATED JANUARY 2018, AND ANY SUPPLEMENTS THERET DATE OF RECEIPT OF BIDS.

B) NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "ROADWAY STANDARI DATED JANUARY 2018, AND ANY SUPPLEMENTS ISSUED THERETO PRIOR T ALL RIGHT OF WAY CORNER MARKERS OR FENCING SHALL BE PLACED BY OTH

CONTRACTOR SHALL BE PREQUALIFIED TO NCDOT 1601 WORK CODE.

THE CONTRACTOR IS RESPONSIBLE FOR AVOIDING ANY DISTURBANCE OR DAM AND SHALL BE RESPONSIBLE FOR IMMEDIATELY REPAIRING ANY DAMAGES AT THE CONTRACTOR MAY UTILIZE THE DESIGNATED STAGING AREA AND THE AR RIGHT OF WAY FOR STAGING AND STOCKPILING EQUIPMENT AND MATERIALS THE STREAM SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL SE SUBSURFACE PLANS: NO SUBSURFACE PLANS ARE AVAILABLE ON THE PROJECT MAKE HIS OWN INVESTIGATION AS TO THE SUB

### CONSTRUCTION SEQUENCING

LAYOUT LOCATION OF THE NEW STREAM CHANNEL, CONSTRUCTION EASEME STAKES. THE ENGINEER MUST INSPECT AND APPROVE ALL LAYOUT WORK BEFO

MOBILIZE EQUIPMENT AND MATERIALS TO THE SITE.

INSTALL CONSTRUCTION ENTRANCE PER EROSION CONTROL PLAN.

ESTABLISH STAGING AREAS AND MARK CONSTRUCTION EQUIPMENT ACCESS MARKERS. CONSTRUCTION EQUIPMENT SHALL BE CONTAINED WITHIN THE LIMI DEPICTED IN THE PLANS OR SPECIFIED BY THE ENGINEER.

INSTALL TEMPORARY EROSION CONTROL MEASURES.

CONSTRUCTION SHALL PROCEED IN SUCCESSIVE REACHES WITH THE UPSTREAD PRIOR TO INITIATING CONSTRUCTION OF THE ADJACENT DOWNSTREAM REAC IN LENGTH TO WORK THAT CAN BE COMPLETED BEFORE ALLOWING WATER COMPLETION OF A REACH SHALL CONSIST OF CHANNEL CONSTRUCTION, FLO STRUCTURE INSTALLATION, BED MATERIAL INSTALLATION, AND EROSION CONTR SHALL BE DONE IN THE DRY, WITH THE CHANNEL FLOW PUMPED AROUND T AS NECESSARY.

AT THE END OF EACH DAYS CONSTRUCTION WORK, THE CONTRACTOR SHALL AND COVER THE STREAM BANKS AND BANKFULL BENCHES WITH COIR FIBER CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL TEMPORARY EROS ON A DAILY BASIS THROUGHOUT THE CONSTRUCTION PROCESS.

AFTER ALL IN-STREAM WORK IS COMPLETED, THE CONTRACTOR SHALL REMOVE CONTROL MEASURES AND TEMPORARY STREAM ACCESS AND SCARIFY ANY CO BY THE ENGINEER. ALL PORTIONS OF THE SITE SHALL BE STABILIZED WITH TEM MEASURES.

PREPARED IN THE OFFICE OF:
Vimlary Uarn
■ (C)2021
SEQUENCING, AND GENER
INDEX OF
OSM-1 TITLE SHEET
OSM-1A INDEX OF SH
OSM-1B CONVENTION
OSM-2 TYPICAL SECTI
–CONST –L–HOC
–ROCK –BOULD
OSM–2B –DIVERS
OSM-2C CURVE DATA
OSM-2D EXISTING CO
OSM–3 SUMMARY OF SUMMARY OF
OSM-4 PLAN SHEET
OSM-5 PROFILE SHEE
EC-1 EROSION CO
EC-2 SILI FENCE C
EC-4 SOIL STABILIZ
EC-5 EROSION CO
STREAN
<u>Plan v</u>
PROPOSED CONSTRUCTED RI
PROPOSED ROCK TOE PROTE
PROFIL
EXISTING GROUND ELEVATION
PROPOSED GROUND ELEVATION
EXISTING RUCK SILL



STREAM	SYMBOLS
	OIMDOLO

PLAN VIEW SYMBOLS

SED CONSTRUCTED RIFFLE

0000000

PROPOSED ROCK SILL

COOOD

SED ROCK TOE PROTECTION

PROPOSED J-HOOK VANE

00000000

16+00

PROPOSED BOULDER TOE PROTECTION

PROFILE SYMBOLS

PROPOSED CONSTRUCTED RIFFLE

PROPOSED J-HOOK VANE

PROPOSED ROCK SILL

## Note: Not to Scale \*S.U.E. = Subsurface Utility Engineering

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# CONVENTIONAL PLAN SHEET SYMBO

## **BOUNDARIES AND PROPERTY:**

State Line	
County Line	
Township Line	
City Line	
Reservation Line	· ·
Property Line	
Existing Iron Pin	EIP
Property Corner	×
Property Monument	ECM
Parcel/Sequence Number	(23)
Existing Fence Line	_xxx
Proposed Woven Wire Fence	<del>-</del> 0
Proposed Chain Link Fence	
Proposed Barbed Wire Fence	
Existing Wetland Boundary	— — — WLB— — — —
Proposed Wetland Boundary	WLB
Existing Endangered Animal Boundary	EAB
Existing Endangered Plant Boundary	EPB
BUILDINGS AND OTHER CULTU	IRE:
Gas Pump Vent or U/G Tank Cap ———	0
Sign ————	⊙ s
Well	O W
Small Mine	${\sim}$
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	- <del>&lt;</del>
Disappearing Stream	->
Spring	-0
Wetland	- ¥
Proposed Lateral, Tail, Head Ditch	
False Sump	$- \qquad \qquad$

RAILROA Standard Go RR Signal M Switch —— **RR** Abandon **RR** Dismant RIGHT C Baseline Cor Existing Rig Existing Rig Proposed Rig Proposed Ri Iron Pin Proposed Rig Concrete Existing Con Proposed Co

Existing Ease Proposed Te Proposed Te Proposed Pe

Proposed Pe Proposed Pe Proposed Te

Proposed Pe Iron Pin

## ROADS

Existing Edge Existing Curk Proposed Slo Proposed Slo Proposed W Existing Met Proposed Gu Existing Cab Proposed Ca Equality Sym Pavement Re VEGETAT Single Tree

Single Shruk Hedge —— Woods Line Orchard — Vineyard -

## STATE OF NORTH CAROLINA DIVISION OF HIGHWAYS

ADS:	
auge	CSX TRANSPORTATION
ilepost	⊙ MILEPOST 35
	SWITCH
ned	
led	
OF WAY:	
ontrol Point	•
ht of Way Marker	$\triangle$
ht of Way Line	
ight of Way Line	
ight of Way Line with and Cap Marker	
ight of Way Line with or Granite Marker	
ntrol of Access	(Ē)
ontrol of Access	
ement Line	——— E ———
emporary Construction Easement –	E
emporary Drainage Easement ——	TDE
ermanent Drainage Easement ——	PDE
ermanent Drainage / Utility Easement	DUE
ermanent Utility Easement	PUE
emporary Utility Easement	TUE
ermanent Easement with and Cap Marker	$\bigotimes$
AND RELATED FEATURE	<i>S:</i>
je of Pavement	
ope Stakes Cut	<u>c</u>
ope Stakes Fill	<u>F</u>
/heel Chair Ramp	WCR
tal Guardrail ————	<u> </u>
uardrail ———	<u> </u>
ole Guiderail —————	
able Guiderail	
nbol ———	$\odot$
emoval	$\boxtimes$
TION:	
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## **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	-0-
Power Manhole	P
Power Line Tower	$\boxtimes$
Power Transformer	$\square$
U/G Power Cable Hand Hole	H <sub>H</sub>
H_Frame Pole	••
Recorded U/G Power Line	P
Designated U/G Power Line (S.U.E.*)	— — — P— -

### TELEPHONE:

Vineyard

Existing Telephone Pole	-•-
Proposed Telephone Pole	-0-
Telephone Manhole	$\bigcirc$
Telephone Booth	3
Telephone Pedestal	T
Telephone Cell Tower —	, Į
U/G Telephone Cable Hand Hole	H <sub>H</sub>
Recorded U/G Telephone Cable	T
Designated U/G Telephone Cable (S.U.E.*) $-$	T _
Recorded U/G Telephone Conduit	TC
Designated U/G Telephone Conduit (S.U.E.*)-	— — — — TC—
Recorded U/G Fiber Optics Cable	T F0-
Designated U/G Fiber Optics Cable (S.U.E.*)	— — — T FO-

E	project reference no. <i>R-2518WM</i>	
$\sim$		
_S		
WATER:		
Water Manhole	(W)	
Water Meter	O	
Water Valve	×	
Water Hydrant		
Recorded U/G Water Line	w-	
Designated U/G Water Line (S.U.E.*)-	ww-	
Above Ground Water Line	A/G Wc	
TV:		
TV Satellite Dish	K	
TV Pedestal		
TV Tower		
U/G TV Cable Hand Hala	File	
Recorded LI/G TV Cable	тутутутутуту	
Designated LI/C TV Cable (SILE *)		
Designated 0/6 TV Cable (3.0.2.)	TV F	
	·····	
Gas Valve Gas Meter Recorded U/G. Gas Line	◇	
Designated U/G Gas Line (SUE*)-		
Above Ground Gas Line	A/G G	
SANITARY SEWER:		
Sanitary Sewer Manhole		
Sanitary Sewer Cleanout		
U/G Sanitary Sewer Line	ssss-	
Above Ground Sanitary Sewer ——	A/G Sanitar	
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		
A/G Tank: Water, Gas. Oil		
U/G Test Hole (S.U.F *)		
Abandoned According to Litility Record	نې ds ۸۸۳	
End of Information		
	—— E.C	



W <sub>bkf</sub> =	BANKFULL WIDTH
$D_{max} =$	MAXIMUM DEPTH
W <sub>b</sub> =	BOTTOM WIDTH
W 1f =	LOW FLOW WIDTH
D <sub>lf</sub> =	LOW FLOW DEPTH

ROSS-SECTION DIMENSIONS (			(IN	FEE1	Γ)	
	RIFFLE				POOL	
REACH	W bkf	D <sub>max</sub>	W <sub>b</sub>	W bkf	D <sub>max</sub>	W <sub>b</sub>
N SHEETS FOR DRAFT STATIONS	28.2	2.2	14.5	29.6	4	2

![](_page_4_Figure_0.jpeg)

![](_page_4_Figure_2.jpeg)

DocuSign Envelope ID: 95E9BB40-4C47-4237-9F47-E56328E5EA79 NOTES: 1) All excavation shall be performed in only dry or isolated sections of channel. 2) Impervious dikes are to be used to isolate work from stream flow when necessary. All graded areas shall be stabilized within 24 hours.
 Maintenance of stream flow operations shall be incidental to the work. This includes polyethylene sheeting, diversion pipes, pumps and hoses. 5) Pumps and hoses shall be of sufficicient size to dewater the work area. SPECIAL STILLING BASIN (SEE PROJECT SPECIAL PROVISIONS) (SEE NCDOT STANDARD DRAWING 1630.06) Utilize a Stabilized Outlet Instead of a Special Stilling Basin If Pumping Clean Water IMPERVIOUS DIKE (SEE PROJECT SPECIAL PROVISIONS) TEMPORARY FLEXIBLE HOSE

![](_page_5_Figure_1.jpeg)

![](_page_5_Figure_2.jpeg)

**EXAMPLE OF PUMP-AROUND OPERATION** 

NOT TO SCALE

PROJECT REFERENCE NO.	SHEET NO.
R-2518WM	OSM-2B
PROJECT ENGIN	EER
SEAL F	PPROVED BY:
Jason (ut (Laudio-Diaz 4FEAC9A7F9F940F1/16/2021	DATE:
DOCUMENT NOT CONSIL UNLESS ALL SIGNATURE	DERED FINAL S COMPLETED
	PROJECT REFERENCE NO. R-25/8WM PROJECT ENGINI PROJECT ENGINI CAROL SEAL 035665 Docustore Project Engini A SEAL 035665 Jason (ut flau ho flav Jason (ut flau ho flav Jason (ut flau ho flav Jason (ut flau ho flav A Docustore Project Engini A

![](_page_5_Figure_7.jpeg)

![](_page_6_Picture_1.jpeg)

NOTE: CONTROL POINT TABLE REFERS	ГО
HORIZONTAL AND VERTICAL CONTROL S	SHOWN
ON SURVEY (NAD83 NC STATE PLANE).	

L8

L9

L10

L11

L12

L13

27.86

14.37

17.05

18.38

38.99

46.51

S23°12'44.43"W

S29°23'17.29"W

S34°09'12.77"W

S34°41'58.09"W

S6°27'22.31"W

S39°07'18.65"W

			CURVE TAB	LE		
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	19.10'	18.68'	S5°44'01"W	17.95'	56°03'31"	10.17'
C2	35.23'	44.27'	S13°26'33"W	41.42'	72°00'13"	25.60'
C3	35.79'	37.83'	S16°56'23"W	36.09'	60°33'58"	20.90'
C4	121.79'	72.41'	S4°12'32"W	71.35'	34°03'58"	37.31'
C5	83.92'	25.91'	S23°32'45"W	25.81'	17°41'25"	13.06'
C6	26.70'	19.14'	S23°35'15"W	18.73'	41°04'33"	10.00'
C7	46.65'	53.32'	S3°29'24"W	50.46'	65°29'20"	30.00'
C8	69.28'	62.49'	S1°11'15"E	60.39'	51°40'32"	33.55'

CONTROL POINT TABLE										
ΡT	ELEVATION	NORTHING	EASTING							
1	2286.98	786602.5900	967042.7816							
2	2285.70	786287.8554	966976.7907							
3	2260.29	786774.4530	967151.2188							

![](_page_7_Figure_0.jpeg)

![](_page_7_Figure_1.jpeg)

## SUMMARY OF QUANTITIES

DESCRIPTION	SECTION	QUANTITIY	UNIT
0000100000-N	800	1	LS
0000900000-N	SP	1	LS
0248000000-N	SP	1	LS
1077000000-E	SP	295	TON
3566000000-E	867	135	LF
3628000000-E	876	355	TON
3642000000-E	876	10	TON
3651000000-E	SP	150	TON
3656000000-E	876	340	SY
600000000-E	1605	700	LF
600600000-E	1610	110	TON
600900000-E	1610	110	TON
6012000000-E	1610	10	TON
6015000000-E	1615	2.5	ACR
6018000000-E	1620	125	LB
6021000000-E	1620	0.5	TON
6029000000-E	SP	750	LF
6036000000-E	1631	185	SY
6037000000-E	SP	530	SY
607000000-N	1639	4	EA
6071012000-E	SP	60	LF
6084000000-E	1660	2.5	ACR
6087000000-E	1660	2	ACR
609000000-E	1661	125	LB
6093000000-E	1661	0.7	TON
609600000-E	1662	125	LB
610800000-E	1665	0.7	TON
6114500000-N	1667	30	MHR
6133000000-N	SP	1	LS

NOTE:

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ABOVE QUANTITIES REFLECT THE TOTAL VOLUME OF BOULDERS AND RIP-RAP TO FULLY CONSTRUCT THE PROPOSED (NOT EXISTING) STRUCTURES. THE CONTRACTOR WILL BE ALLOWED TO UTILIZE THE ONSITE RIP-RAP MATERIAL AND BOULDERS TO THE EXTEND POSSIBLE AS APPROVED BY ENGINEER. IT IS ANTICIPATED THAT MOST OF THE CLASS I RIP-RAP WILL NEED TO BE IMPORTED TO THE SITE. IT IS ALSO ANTICIPATED THAT HALF OF THE BOULDERS WILL BE FOUND ON SITE.

ITEM DESCRIPTION

MOBILIZATION

CONSTRUCTION SURVEYING FOR MITIGATION

GRADING FOR MITIGATION

**#57 STONE** 

WOVEN WIRE FENCE RESET

RIP RAP, CLASS 1

RIP RAP, CLASS A

BOULDERS

GEOTEXTILE FOR DRAINAGE, TYPE 2

TEMPORARY SILT FENCE

STONE FOR EROSION CONTROL CLASS A

STONE FOR EROSION CONTROL CLASS B

SEDIMENT CONTROL STONE

TEMPORARY MULCHING

SEED FOR TEMPORARY SEEDING

FERTILIZER FOR TEMPORARY SEEDING

SAFETY FENCE

MATTING FOR EROSION CONTROL

COIR FIBER MAT

SPECIAL STILLING BASINS

COIR FIBER WATTLE

SEEDING & MULCHING

MOWING

SEED FOR REPAIR SEEDING

FERTILIZER FOR REPAIR SEEDING

SEED FOR SUPPLEMENTAL SEEDING

FERTILIZER TOPDRESSING

SPECIALIZED HAND MOWING

DIVERSION PUMPING

![](_page_8_Picture_36.jpeg)

## SUMMARY OF EARTHWORK

UNCLASSIFIED EXCAV. (CU.YD.)	
986	

NOTE: APPROXIMATE QUANTITIES ONLY, UNCLASSIFIED EXCAVATION, BORROW EXCAVATION, FINE GRADING AND CLEARING AND GRUBBING WILL BE PAID FOR AT THE CONTRACT LUMP SUM PRICE FOR "GRADING FOR MITIGATION".

BORROW	EMBANKMENT	WASTE
(CU.YD.)	(CU.YD.)	(CU.YD.)
0	0	986

![](_page_9_Figure_1.jpeg)

![](_page_9_Figure_2.jpeg)

![](_page_10_Figure_0.jpeg)

- HR = HEAD OF RIFFLE TR = TAIL OF RIFFLE
- RS = ROCK SILL
- EX RS = EXISTING ROCK SILL
- JHV = J-HOOK VANE

![](_page_10_Figure_5.jpeg)

### PROJECT REFERENCE NO. SHEET NO. PREPARED IN THE OFFICE OF: R-25/8WM OSM-5 Kimley »Horn PROJECT ENGINEER NC LICENSE #F-0102 200 SOUTH TRYON STREET, SUITE 200 CHARLOTTE, NORTH CAROLINA 28202 PHONE: (704) 333-5131 SEAL CASES APPROVED BY: Jason (un Claudio-Dias 4FEAC9A7F9F940F1/16/2021 PROFILE DATE: **DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

![](_page_11_Figure_0.jpeg)

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	STATE STATE	<b>2</b> project reference no.	NO. SHEET TOT SHEET SHEET
	STATE PROJ. NO. 34445.3.1	F. A. PROJ. NO.	DESCRIPTION
EROSIC	N AND SEDIM	IENT CONTROL	MEASURE
Std. #	Description		Symbol
1630.03	Temporary Silt Dite		TSD
1605.01	Temporary Diversion Temporary Silt Fen	n	—> TD —> ———————————————————————————————————
1606.01	Special Sediment Co	ontrol Fence	
1622.01	Temporary Berms and	nd Slope Drains	
1630.02 1633.01	Tamparany Rock S	ilt Chack Type <del>r</del> A	
1000.01	Temporary Rock S	ilt Check Type A	💥
	Matting and Polyac	rylamide (PAM)	
1633.02	Temporary Rock S	ilt Check Type-B	
	Wattle / Coir Fiber	• Wattle	······ <b>)</b>
	Wattle∥ Coir Fiber with Polyacrylamide	°Wattle e(PAM)	
1634.01	Temporary Rock S	ediment Dam Type-A	00000000000000000000000000000000
1634.02	Temporary Rock S	ediment Dam Type=B	
1635.01 1635.02	Rock Fipe Inlet Se Rock Pipe Inlet Se	diment Irap Type"A diment Tran Type"R	
1630.04	Stilling Basin		
1630.06	Special Stilling Basi	in	
_	Rock Inlet Sedimen	nt Trap:	<u>20000000</u>
<b>1632.01</b>	Туре А		A 🔲
1632.02	Type B		В
	Type C		
	Skimmer Basin		
		•	
	Liered Skimmer Ba	lsin	
	Infiltration Basin		
	THIS P	ROJECT CONTAIN	'S
	EROSIO	N CONTROL PLA	NS I
	FOR	CLEARING AND	
		DING PHASE OF DNSTRUCTION.	
		S PROJECT HAS	
	SENSI'	N DESIGNED IO TIVE WATERSHEI	)
		STANDARDS.	
	ENVI SENSITI	KUNMENTALLY VE AREA(S) FV	IST
	ON	THIS PROJECT	
	<b>Reter</b>	D E. C. Special Provisio	ons l

The following roadway english standards as appear in "Roadway Standard Drawings"- Roadway Design

Unit – N. C. Department of Transportation – Raleigh, N. C., dated January 2019 and the latest revison 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 1632.02 Rock Inlet Sediment Trap Type 3 1605.01 Temporary Silt Fence 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 Jerms and Slope Drains 1633.02 Temporary Rock Silt Check Type 3 1630.01 Riser Jasin 1634.01 Temporary Rock Sediment Dam Type A 1630.02 Silt Jasin Type J 1634.02 Temporary Rock Sediment Dam Type 3 1630.03 Temporary Silt Ditch 1635.01Rock Pipe Inlet Sediment Trap Type A1635.02Rock Pipe Inlet Sediment Trap Type 3 1630.04 Stilling Jasin 1630.05 Temporary Diversion 1640.01 Coir Fiber Jaffle 1630.06 Special Stilling Jasin 1645.01 Temporary Stream Crossing 1631.01 Matting Installation

![](_page_12_Figure_0.jpeg)

WATTLE INSTALLATION CAN BE ON OUTSIDE OF THE SILT FENCE AS DIRECTED. INSTALL TEMPORARY SILT FENCE IN ACCORDANCE WITH SECTION 1605 OF THE

INSTALL A MINIMUM OF 2 UPSLOPE STAKES AND 4 DOWNSLOPE STAKES AT AN

USE MINIMUM 12 IN. DIAMETER COIR FIBER (COCONUT FIBER) WATTLE AND

![](_page_12_Picture_9.jpeg)

— SILT FENCE POST

SEE INSET A

└─ DOWNSLOPE STAKE

![](_page_13_Figure_0.jpeg)

## ANCHOR OPTIONS

![](_page_13_Figure_3.jpeg)

11/16/21	SOIL
	SITE DESCRIPTION
	PERIMETER DIKES, SWALES, DITCHES AND S
	HIGH QUALITY WATER (HQW) ZONES
	SLOPES STEEPER THAN 3:
	SLOPES 3:1 OR FLATTER
	ALL OTHER AREAS WITH SLOPES FLATTER

## DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

# **STABILIZATION TIMEFRAMES**

	STABILIZATION TIME	Τ//
SLOPES	7 DAYS	NONE
	7 DAYS	NONE
	7 DAYS	IF SLOPES NOT STEE
	14 DAYS	7 DAYS F LENGTH.
R THAN 4:	14 DAYS	NONE, EXC

![](_page_14_Picture_5.jpeg)

![](_page_15_Figure_1.jpeg)