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ROADWAY STANDARD DRAWINGS

THE FOLLOWING ROADWAY STANDARDS AS SHOWN 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:

STD. NO.	TITLE
1101.01	WORK ZONE ADVANCE WARNING SIGNS
1101.02	TEMPORARY LANE CLOSURES
1101.03	TEMPORARY ROAD CLOSURE
1101.04	TEMPORARY SHOULDER CLOSURES
1101.11	TRAFFIC CONTROL DESIGN TABLES
1110.01	STATIONARY WORK ZONE SIGNS
1110.02	PORTABLE WORK ZONE SIGNS
1130.01	DRUM
1135.01	CONES
1145.01	BARRICADES
1150.01	FLAGGING DEVICES
1165.01	WORK VEHICLE LIGHTING SYSTEMS AND TMA DELI
1180.01	SKINNY-DRUM
1205.01	PAVEMENT MARKINGS - LINE TYPES AND OFFSETS
1205.02	PAVEMENT MARKINGS - TWO-LANE AND MULTI-LAN
1205.04	PAVEMENT MARKINGS - INTERSECTIONS
1205.08	PAVEMENT MARKINGS - SYMBOLS AND WORD MESSA
1205.10	PAVEMENT MARKINGS - SCHOOL AREAS
1205.12	PAVEMENT MARKINGS - BRIDGES
1250.01	RAISED PAVEMENT MARKERS - INSTALLATION SPA
1251.01	RAISED PAVEMENT MARKERS - PERMANENT AND TE
1261.01	GUARDRAIL AND BARRIER DELINEATORS - INSTAL
1261.02	GUARDRAIL AND BARRIER DELINEATORS - TYPES
1262.01	GUARDRAIL END DELINEATION

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MANAGEMENT STRATEGIES

THIS PROJECT WILL BE COMPLETED BY MAINTAINING TRAFFIC ON EXISTING NC 87 CONSTRUCT AN ON-SITE DETOUR ALIGNMENT. NC 87 TRAFFIC WILL THEN BE SHIF TO THE ON-SITE DETOUR TO ALLOW THE PERMANENT BRIDGES TO BE CONSTRUCTED. NC 87 TRAFFIC WILL BE PLACED IN THE FINAL PATTERN FOR THE FINAL CONSTRUCTION PHASE TO ALLOW FOR REMOVAL OF THE DETOUR STRUCTURES, PAVEM AND FILL MATERIAL. MOST WORK WILL BE ACCOMPLISHED AWAY FROM TRAFFIC BE EXISTING AND TEMPORARY GUARDRAIL OR TEMPORARY BARRIER. FLAGGERS WILL BI USED FOR OPERATIONS THAT REQUIRE LANE CLOSURES, SUCH AS MATERIAL DELIVE TIE-INS TO EXISTING ROADS, AND WEDGING UNDER TRAFFIC. TEMPORARY WEDGING WILL BE REQUIRED TO TRANSITION FROM EXISTING PAVEMENT TO THE PERMANENT PAVEMENT WHERE THE PROPOSED GRADES DO NOT MATCH EXISTING.

ACCESS WILL BE MAINTAINED TO THE PARK BY USE OF A TEMPORARY DRIVEWAY.

OLD NC 87 WILL BE CLOSED DURING A PORTION OF PHASE 2 TO ALLOW FOR THE FITTE-IN AND RECONSTRUCTION OF THE INTERSECTION WITH -L- (NC 87). COORDINATION WITH THE ELEMENTARY SCHOOL AND FIRE DEPARTMENT WILL BE NECESSARY DURING THIS CLOSURE TO MINIMIZE SCHOOL CALENDAR CONFLICTS AND EMERGENCY RESPONSE DELAYS.

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PROJECT NOTES

GENERAL NOTES

TO TED	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,										
IENT, HIND	SUP ENG	SUPPLEMENTING, COVERING, OR REMOVAL OF DEVICES AS DIRECTED BY THE ENGINEER.									
ERY, IG	THE THE	FOLL CONS	_OWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF STRUCTION PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN	U)	DU NUT						
	OR		TED BY THE ENGINEER.		<u>ROAD</u> NC 87						
	<u>1 1 111</u>		NOT CLOSE OF MARROW TRAVEL LANES AS FOLLOWS.		Sh TUC						
INAL	A)	DO	NUT CLUSE OR NARROW TRAVEL LANES AS FULLOWS:	E)	DO NOT						
)		<u>ROA</u> NC	D NAME DAY AND TIME RESTRICTIONS 87 MON-FRI: 7:00 A.M. TO 9:00 A.M. & 3:00 P.M. TO 6:00 P.M.		OF AN BARRIE						
	D)	DO		LAN	<u>e and s</u>						
	В)	DO EVE	NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND SPECIAL NTS AS FOLLOWS:	F)	REMOVE PERFOF						
		<u>ROA</u> NC	<u>D_NAME</u> 87		LONGEF						
		<u>HOL</u>	IDAY	G)	WHEN F OPEN T STANDA						
		1.	FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.		BARRIE						
		2.	FOR NEW YEAR'S, BETWEEN THE HOURS OF 7:00 A.M. DECEMBER 31st TO 6:00 P.M. JANUARY 2ND. IF NEW YEAR'S DAY IS ON A FRIDAY, SATURDAY, SUNDAY, OR MONDAY THEN UNTIL 6:00 P.M. THE FOLLOWING TUESDAY.	H)	WHEN F ADJACE OPEN T STANDA BARRIE						
		3.	FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.	I)	WHEN F OF AN						
		4.	FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.		BY THE EQUIPN						
		5.	FOR INDEPENDENCE DAY, BETWEEN THE HOURS OF 7:00 A.M. THE DAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE DAY AFTER INDEPENDENCE DAY.	J)	DO NOT TRAVEL WITH G						
			IF INDEPENDENCE DAY IS ON A FRIDAY, SATURDAY, SUNDAY OR MONDAY THEN BETWEEN THE HOURS OF 7:00 A.M. THE THURSDAY BEFORE INDEPENDENCE DAY AND 6:00 P.M. THE TUESDAY AFTER INDEPENDENCE DAY.								
		6.	FOR LABOR DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY AND 6:00 P.M. TUESDAY.								
		7.	FOR THANKSGIVING DAY, BETWEEN THE HOURS OF 7:00 A.M. TUESDAY TO 6:00 P.M. MONDAY.								
		8.	FOR CHRISTMAS, BETWEEN THE HOURS OF 7:00 A.M. THE FRIDAY BEFORE THE WEEK OF CHRISTMAS DAY AND 6:00 P.M. THE FOLLOWING TUESDAY AFTER THE WEEK OF CHRISTMAS.								

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PROJ. REFERENCE NO.SHEET NO.B - 5239TMP - 1 BHDR Engineering, Inc. of the Carolinas
555 Fayetteville St, Suite 900 Raleigh, N.C. 27601
N.C.B.E.L.S. License Number: F-0116

CLOSE ROADS AS FOLLOWS:

<u>AME</u>	DAY AND TIME RESTRICTIONS		
8 (OLD NC 87)	MONDAY-FRIDAY: 7:00 A.M.	то	4:00 P.M.,
	AND ANY OTHER TIME SCHOOL	IS	IN SESSION

STOP TRAFFIC AS FOLLOWS:

		DAY AND TIME	DURATION AND
AM	<u>E</u>	<u>RESTRICTIONS</u>	<u>OPERATION</u>
		MONDAY-FRIDAY:	30 MINUTES FOR
2	(ALTAMAHAW	7:00 A.M. TO 6:00 P.M.	GIRDER/MATERIAL
	UNION RIDGE RD)		DELIVERY

T CONDUCT ANY HAULING OPERATIONS AGAINST THE FLOW OF TRAFFIC OPEN TRAVELWAY UNLESS THE HAULING OPERATION IS PROTECTED BY ER OR GUARDRAIL OR AS DIRECTED BY THE ENGINEER.

HOULDER CLOSURE REQUIREMENTS

E LANE CLOSURE DEVICES FROM THE LANE WHEN WORK IS NOT BEING RMED BEHIND THE LANE CLOSURE OR WHEN A LANE CLOSURE IS NO R NEEDED OR AS DIRECTED BY THE ENGINEER.

PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY ARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY ER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.

PERSONNEL AND/OR EQUIPMENT ARE WORKING ON THE SHOULDER ENT TO AN UNDIVIDED FACILITY AND WITHIN 5 FT OF AN TRAVEL LANE, CLOSE THE NEAREST OPEN TRAVEL LANE USING ROADWAY ARD DRAWING NO. 1101.02 UNLESS THE WORK AREA IS PROTECTED BY ER OR GUARDRAIL.

PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN A LANE OF TRAVEL UNDIVIDED OR DIVIDED FACILITY, CLOSE THE LANE ACCORDING TO RAFFIC CONTROL PLANS, ROADWAY STANDARD DRAWINGS, OR AS DIRECTED E ENGINEER. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR MENT REMAIN WITHIN THE CLOSED TRAVEL LANE.

T WORK SIMULTANEOUSLY WITHIN 15 FT ON BOTH SIDES OF AN OPEN LWAY, RAMP, OR LOOP WITHIN THE SAME LOCATION UNLESS PROTECTED GUARDRAIL OR BARRIER.



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GENERAL NOTES

PAVEMENT EDGE DROP OFF REQUIREMENTS

K) 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.

L) 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) 500 FT IN ADVANCE AND A MINIMUM OF EVERY HALF MILE THROUGHOUT THE UNEVEN AREA.

TRAFFIC PATTERN ALTERATIONS

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

SIGNING

- N) 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.
- 0) 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.

P) 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.

- Q) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- R) INSTALL BLACK ON ORANGE "DIP" SIGNS (W8-2) AND/OR "BUMP" SIGNS (W8-1) 500 FT. IN ADVANCE OF THE UNEVEN AREA, OR AS DIRECTED BY THE ENGINEER.

TRAFFIC BARRIER

S) 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.

PROJECT NOTES

LOCAL NOTES

T) 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 LN-02) ONCOMING TRAFFIC AS FOLLOWS OR AS SHOWN IN THE PLANS: (SEE ALSO 1101.05)

POSTED SPEED LIMIT	MINIMUM OFFSET
40 OR LESS	15 FT
45 - 50	20 FT
55	25 FT
60 MPH or HIGHER	30 FT

TRAFFIC CONTROL DEVICES

- U) 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.
- V) PLACE TYPE III BARRICADES, WITH "ROAD CLOSED" SIGN R11-2 ATTACHED, OF SUFFICIENT LENGTH TO CLOSE ENTIRE ROADWAY.
- W) PLACE ADDITIONAL SETS OF THREE CHANNELIZING DEVICES (DRUMS/CONES/SKINNY DRUMS) PERPENDICULAR TO THE EDGE OF TRAVELWAY ON 500 FT CENTERS WHEN UNOPENED LANES ARE CLOSED TO TRAFFIC.

PAVEMENT MARKINGS AND MARKERS

X) INSTALL TEMPORARY PAVEMENT MARKINGS AND TEMPORARY PAVEMENT MARKERS ON INTERIM LAYERS OF PAVEMENT AS FOLLOWS:

ROAD NAME	MARKING	MARKER
ALL ROADS	PAINT (ON ASPHALT AND	TEMPORARY RAISED
	TEMPORARY BRIDGES)	
	COLD APPLIED PLASTIC -	
	TYPE IV (ON CONCRETE)	

- Y) PLACE ONE APPLICATION OF PAINT FOR TEMPORARY TRAFFIC PATTERNS. PLACE A SECOND APPLICATION OF PAINT SIX (6) MONTHS AFTER THE INITIAL APPLICATION AND EVERY SIX MONTHS AS DIRECTED BY THE ENGINEER.
- Z) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING LINES.
- AA) REMOVE/REPLACE ANY CONFLICTING/DAMAGED PAVEMENT MARKINGS AND MARKERS BY THE END OF EACH DAY'S OPERATION.

APPROVED: P. Ersteine Brooks - F058C5F748464EE DATE: 10/30/2017 **DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**



LN-01) OLD NC 87 (-Y1-) SHALL NOT BE CLOSED DURING REGULAR SCHOOL DAYS SO THE OPERATIONS OF AND ACCESS TO ALAMANCE-OSSIPEE ELEMENTARY SCHOOL ARE NOT IMPACTED. CLOSURES OF OLD NC 87 SHALL OCCUR ONLY WHEN OUTSIDE OF NORMAL OPERATING HOURS OR WHEN SCHOOL IS NOT IN SESSION.

> CONTRACTOR SHALL COORDINATE WITH THE ENGINEER PRIOR TO CLOSURE OF OLD NC 87 (-Y1-) IN ORDER TO PROVIDE NOTIFICATION TO ALAMANCE-OSSIPEE VOLUNTEER FIRE DEPARTMENT.



TRANSPORTATION OPERATIONS PLAN

NOTES FOR TEMPORARY SHORING No. 1

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

DESIGN TEMPORARY SHORING FROM STATION $14+63 \pm -LDET-$, 20.00 FT. LT, TO 15+08 ± -LDET-, 20.00 FT. LT, FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, γ = 120 PCF UNIT WEIGHT OF SOIL BELOW WATER TABLE, γ' = 60 PCF FRICTION ANGLE, ϕ = 30 COHESION, c = 0 PSF GROUNDWATER ELEVATION = 593 FT. ±

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 14+63 ± -LDET-, 20.00 FT. LT, TO 15+08 ± -LDET-, 20.00 FT. LT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 14+63 ± -LDET-, 20.00 FT. LT, TO 15+08 ± -LDET-, 20.00 FT. LT SEE STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

NOTES FOR TEMPORARY SHORING No. 3

FOR TEMPORARY SHORING AND POSITIVE PROTECTION FOR TEMPORARY SHORING, SEE PLANS AND TEMPORARY SHORING PROVISION.

DESIGN TEMPORARY SHORING FROM STATION $18+50 \pm -LDET-$, 20.00 FT. LT, TO 18+95 ± -LDET-, 20.00 FT. LT., FOR THE FOLLOWING ASSUMED SOIL PARAMETERS AND GROUNDWATER ELEVATION:

UNIT WEIGHT OF SOIL ABOVE WATER TABLE, γ = 120 PCF UNIT WEIGHT OF SOIL BELOW WATER TABLE, γ' = 60 PCF FRICTION ANGLE, ϕ = 30 COHESION, c = 0 PSF GROUNDWATER ELEVATION = 601 FT. \pm

BEFORE BEGINNING TEMPORARY SHORING DESIGN OR CONSTRUCTION, SURVEY EXISTING GROUND ELEVATIONS IN THE VICINITY OF SHORING LOCATIONS TO DETERMINE ACTUAL SHORING HEIGHTS.

LIMITED SUBSURFACE INFORMATION IS AVAILABLE IN THE VICINITY OF THE TEMPORARY SHORING FROM STATION 18+50 ± -LDET-, 20.00 FT. LT, TO 18+95 ± -LDET-, 20.00 FT. LT. THE INFORMATION PROVIDED FOR DESIGN WAS ASSUMED AND MAY NOT BE APPLICABLE TO THE ACTUAL SITE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.

AT THE CONTRACTOR'S OPTION, USE A STANDARD TEMPORARY WALL FOR TEMPORARY SHORING FROM STATION 18+50 ± -LDET-, 20.00 FT. LT, TO 18+95 ± -LDET-, 20.00 FT. LT. SEE STANDARD DETAIL NO. 1801.02 FOR STANDARD TEMPORARY WALLS.

THE TEMPORARY SHORING NOTES SHOWN ON THIS SHEET WERE PROVIDED THROUGH SEALED DOCUMENT FROM THE GEOTECHNICAL ENGINEERING UNIT. THE DOCUMENT WAS SUBMITTED TO THE WZTC SECTION ON 08/16/2017 AND SEALED BY A PROFESSIONAL ENGINEER, DAVID L. TEAGUE, LICENSE # 027869.

TEMPORARY SHORING DATA

NOTES FOR TEM

FOR TEMPORARY SHORING AND POS SHORING, SEE PLANS AND TEMPOR

DESIGN TEMPORARY SHORING FROM TO 18+07 ± -LDET-, 20.00 FT. PARAMETERS AND GROUNDWATER E UNIT WEIGHT OF SOIL ABOV UNIT WEIGHT OF SOIL BEL FRICTION ANGLE, $\phi = 30$ COHESION, c = 0 PSF GROUNDWATER ELEVATION =

BEFORE BEGINNING TEMPORARY S SURVEY EXISTING GROUND ELEVA LOCATIONS TO DETERMINE ACTUAL

LIMITED SUBSURFACE INFORMATI THE TEMPORARY SHORING FROM S 18+07 ± -LDET-, 20.00 FT. LT WAS ASSUMED AND MAY NOT BE AF CONDITIONS ENCOUNTERED DURING

AT THE CONTRACTOR'S OPTION, U FOR TEMPORARY SHORING FROM S 18+07 ± -LDET-, 20.00 FT. LT STANDARD TEMPORARY WALLS.

NOTES FOR TEM

FOR TEMPORARY SHORING AND POS SHORING, SEE PLANS AND TEMPO

DESIGN TEMPORARY SHORING FROM 20+02 ± -L-, 24.3 FT. RT. FOF AND GROUNDWATER ELEVATION: UNIT WEIGHT OF SOIL ABOV UNIT WEIGHT OF SOIL BEL FRICTION ANGLE, ϕ = 30 COHESION, c = 0 PSF GROUNDWATER ELEVATION =

BEFORE BEGINNING TEMPORARY SH SURVEY EXISTING GROUND ELEVA LOCATIONS TO DETERMINE ACTUAL

LIMITED SUBSURFACE INFORMATION THE TEMPORARY SHORING FROM S 20+02 ± -L-, 24.3 FT. RT. THE ASSUMED AND MAY NOT BE APPLIC CONDITIONS ENCOUNTERED DURING

AT THE CONTRACTOR'S OPTION, U FOR TEMPORARY SHORING FROM S 20+02 ± -L-, 24.3 FT. RT. SEE TEMPORARY WALLS.

	В	- 5239	TMP-2
PORARY SHORING No. 2			
SITIVE PROTECTION FOR TEMPORARY RARY SHORING PROVISION.			
M STATION 17+62 ± -LDET-, 20.00 LT., FOR THE FOLLOWING ASSUMED LEVATION: VE WATER TABLE, γ = 120 PCF OW WATER TABLE, γ' = 60 PCF	FT. LT, SOIL		
593 FT. ±			
HORING DESIGN OR CONSTRUCTION, TIONS IN THE VICINITY OF SHORING L SHORING HEIGHTS.	à		
ON IS AVAILABLE IN THE VICINITY TATION 17+62 ± -LDET-, 20.00 FT . THE INFORMATION PROVIDED FOR I PPLICABLE TO THE ACTUAL SITE G CONSTRUCTION.	OF LT, TO DESIGN		
JSE A STANDARD TEMPORARY WALL TATION 17+62 ± -LDET-, 20.00 FT . SEE STANDARD DETAIL NO. 1801.0	. LT, TO D2 FOR		
PORARY SHORING No. 4			
SITIVE PROTECTION FOR TEMPORARY RARY SHORING PROVISION.			
M STATION 19+57 ± -L-, 24.3 FT. R THE FOLLOWING ASSUMED SOIL PAP	RT., TO RAMETERS		
VE WATER TABLE, γ' = 120 PCF OW WATER TABLE, γ' = 60 PCF			
601 FT. ±			
HORING DESIGN OR CONSTRUCTION, TIONS IN THE VICINITY OF SHORING L SHORING HEIGHTS.	3		
ON IS AVAILABLE IN THE VICINITY TATION 19+57 ± -L-, 24.3 FT. RT E INFORMATION PROVIDED FOR DESIC CABLE TO THE ACTUAL SITE G CONSTRUCTION.	OF ., TO GN WAS		
JSE A STANDARD TEMPORARY WALL TATION 19+57 ± -L-, 24.3 FT. RT E STANDARD DETAIL NO. 1801.02 F0	., TO DR STANDARI)	
NORTH CARD	MPORARY	SHORING	NOTES

F TRAFFIC

PROJ. REFERENCE NO.

SHEET NO.



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SPECIAL SIGN DESIGN



							PROJ. REFE	SHEET NO.	
							B-5	TMP-2C	
Unanchored PCB	MINIM Pavement Type Asphalt Concrete	UM REQUI Offset * ft <8 8-14 14-20 20-26 26-32 32-38 38-44 44-50 50-56 >56 <8 8-14 14-20 20-26 26-32 32-38 38-44 44-50 20-26 26-32 32-38 38-44 44-50 50-56	RED CI <30 24 26 27 28 29 30 31 31 32 32 17 19 22 23 24 24 24 25 26 26 26 26	LEAR DI De 31-40 26 28 29 31 32 34 34 34 35 36 36 36 36 36 20 22 24 22 24 25 26 26 26 26 26 26	STANCI sign Spe 41-50 29 31 34 35 36 38 41 41 42 42 42 21 23 24 26 27 27 27 28 28 28 28 28	E, inches ed, mph 51-60 32 35 36 38 39 41 43 43 43 43 44 45 22 25 26 27 28 30 30 32 32	61-70 36 38 39 40 42 43 45 46 47 47 25 26 28 30 32 33 34 35 35	$71-80 \\ 40 \\ 42 \\ 43 \\ 44 \\ 45 \\ 46 \\ 48 \\ 49 \\ 50 \\ 51 \\ 26 \\ 29 \\ 31 \\ 34 \\ 35 \\ 36 \\ 37 \\ 37 \\ 38 \\ $	
Anchored PCB	Asphalt	All Offsets	20 27 29 32 30 38 24 for All Design Speeds						
Anchored PCB	Concrete (including bridge approach slabs)	All Offsets	12 for All Design Speeds						

* See Figure Below





FIGURE B



PORTABLE CONCRETE BARRIER AT TEMPORARY SHORING LOCATIONS

NOTES:

BEFORE BEGINNING ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL INST ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES. FIELD VERIFY LOCATIONS WITH THE RESIDENT ENGINEER PRIOR TO INSTALLATION.

MAINTAIN ACCESS TO ALL RESIDENCES AND BUSINESSES DURING THE LIFE OF THE CONTRACT, UNLESS OTHERWISE NOTED IN THE PHASING OR AS DIRECTED BY THE ENGINEER.

COMPLETE ANY PROPOSED OR TEMPORARY WIDENING IN SUCH A MANNER THAT NO PONDING OF WATER WILL OCCUR WITHIN THE TRAVEL LANE.

WHEN USING LANE CLOSURES (RSD 1101.02), RETURN TRAFFIC TO EXISTING PATTERN(S) AT THE END OF THE ALLOWABLE WORK PERIOD.

PAVE PROPOSED CONSTRUCTION UP TO BUT NOT INCLUDING THE FINAL LAYER OF SURFACE COURSE, IN ALL PHASES, UNLESS OTHERWISE NOTED IN THE PHASING, UNTIL STATED TO INSTALL THE FINAL LAYER OF SURFACE COURSE IN THE PHASIN

COVER ALL OPEN DRAINAGE STRUCTURES ADJACENT TO TRAFFIC WITH TEMPORARY STEEL PLATES, OR AS DIRECTED BY THE ENGINEER.

PHASE 1 (SHEET TMP-7)

<u>STEP 1:</u>

AWAY FROM TRAFFIC AND USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, COMPLETE UNDERCUT OF EXISTING MATERIAL UNDER -LDET- FROM -LDET- STA. 17+67 +/- TO STA. 18+91 +/-. (SEE SECTION C-C, SHEET TMP-5

USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, COMPLETE PERMANENT UNDERCUT OF EXISTING SHOULDER FROM -L- STA. 10+00 TO STA. 11+75 +/- (RT).

USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), COMPLETE REMOVAL OF EXISTING GUARDRAIL AND INSTALL NEW TEMPORARY GUARDRAIL ON EXISTING NC 87 FROM -L- STA. 19+36 +/- (END BRIDGE) TO -L- STA. 20+36 +/- (RT).

<u>STEP 2:</u>

AWAY FROM TRAFFIC AND USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, CONSTRUCT THE FOLLOWING:

- - LDET-, INCLUDING TEMPORARY BRIDGES OVER THE HAW RIVER AND MILL RACE, AND SHORING NOS. 1, 2, AND 3.
- AND MI - -Y2DET-
- - DRV- (TEMPORARY DRIVEWAY TO THE PARK)
- TEMPORÀRY WEDGING, AS NECESSARY, ON EXISTING NC 87 AND -Y2DET- TO MAINTAIN TRAFFIC AND ALLOW FOR SMOOTH TRANSITIONS AND TIE-INS OF THE DETOUR TO EXISTING PAVEMENT.

<u>STEP 3:</u>

AWAY FROM TRAFFIC AND USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, INSTALL ANCHORED PCB ALONG -LDET- FROM STA. 14+30 +/- TO STA. 20+75 +/- (LT), AS SHOWN ON SHEET TMP-8. INSTALL CRASH CUSHIONS ON EACH END OF THE BARRIER AND ATTACH THE ANCHORED BARRIER TO THE TEMPORARY BRIDGES AT EACH APPROACH.

<u>STEP 4:</u>

WORKING IN A CONTINUOUS MANNER, AWAY FROM TRAFFIC AND USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, PLACE TEMPORARY PAVEMENT MARKINGS ON -LDET-, -Y1DET-, AND -Y2DET- AS SHOWN ON SHEET TMP-8, AND SHIFT TRAFFIC TO THE TEMPORARY PATTERN.

PHASING

	<u>PHASE 2 (SHEETS TMP-8 AND TMP-9)</u>	PHASE 3				
TALL	STEP 1:	<u>STEP 1:</u>				
Ξ	AWAY FROM TRAFFIC AND USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, BEGIN CONSTRUCTION OF THE FOLLOWING: (SEE SHEET TMP-8) L- FROM STA. 13+75 +/- TO STA. 22+50 +/- * INCLUDING BRIDGES OVER THE HAW RIVER AND MILL RACE, SHORING NO. 4, AND FINAL WEDGING FROM STA. 20+50 +/- TO STA. 22+50 +/ * MAINTAIN ACCESS TO THE PARK THROUGH THE WORK AREA AT ALL TIMES					
	<u>STEP 2:</u>	USING FLAGO LAYER OF AS THEN OPEN A				
NG.	USING RSD 1101.03, SHEETS 1 AND 2 OF 9, AND AS SHOWN ON SHEET TMP-2A, CLOSE AND DETOUR -Y1- (OLD NC 87) (SEE LOCAL NOTES LN-01 AND LN-02, SHEET TMP-1C), THEN AWAY FROM TRAFFIC AND USING FLAGGERS AND LANE CLOSURES (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, CONSTRUCT THE FOLLOWING: (SEE SHEET TMP-9) L- FROM STA. 10+00 +/- TO STA. 13+75 +/- * INCLUDING FINAL WEDGING FROM STA. 10+00 +/- TO STA. 11+75 +/- Y1-					
	USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, CONSTRUCT THE FOLLOWING: (SEE SHEET TMP-9) L- FROM STA. 22+50 +/- TO STA. 24+85 +/- * INCLUDING FINAL WEDGING					
	- TEMPORARY WEDGING, AS NECESSARY, ON -LDET- TO MAINTAIN TRAFFIC AND ALLOW FOR SMOOTH TRANSITIONS AND TIE-INS OF THE FINAL WEDGING TO THE DETOUR PAVEMENT.					
5)	COMPLETE ALL WORK PREVIOUSLY BEGUN IN PHASE 2, STEP 1.					
	STEP 3:					
	WORKING IN A CONTINUOUS MANNER, AWAY FROM TRAFFIC AND USING FLAGGERS					

(RSD 1101.02, SHEET 1 OF 15), ÁS NECESSARY, PLACE TEMPORARY PAVEMENT

AND SHIFT TRAFFIC TO THE FINAL PATTERN ON ALL ROADS.

MARKINGS IN THE FINAL PATTERN ON -L-, -Y1-, AND -Y2-, THEN REOPEN -Y1-

APPROVED: P. Erstine Brooks F058C5F748464EE... DATE: DATE: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



OM TRAFFIC AND USING FLAGGERS (RSD 1101.02, SHEET 1 OF 15), AS RY, COMPLETE ALL REMAINING SHOULDER WORK AND REMOVAL OF THE DETOUR , PAVEMENT, AND FILL MATERIAL. REMOVE PORTIONS OF SHORING NOS. 1, 2, S REQUIRED TO COMPLETE REMOVAL OF THE TEMPORARY BRIDGES, AND LEAVE AINDER IN PLACE.

LAGGERS (RSD 1101.02, SHEET 1 OF 15), AS NECESSARY, PLACE THE FINAL F ASPHALT SURFACE COURSE AND FINAL PAVEMENT MARKINGS AND MARKERS, EN ALL LANES TO THE FINAL PATTERN.

ALL REMAINING TRAFFIC CONTROL DEVICES.



TEMPORARY TRAFFIC CONTROL PHASING







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