

57ATB	STATE	PROJECT REPERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	17BP.1.P.2			11
	STATE PROLNO.	F. A. FROL NO.	DESCU.P	19091
17BP.	1.P.2		PE	
17BP.1.P.2			CON	ST

IND	EX OF SHEETS
1	TITLE SHEET
S1 – S1 1	STRUCTURE PLANS
TMP1 - TMP6	TRAFFIC CONTROL PLANS



			TOTAL BI	LL OF MA	TERIAL				
*** SCARIFYING BRIDGE DECK	* CLASS I SURFACE PREPARATION	* CLASS II SURFACE PREPARATION	* CLASS III SURFACE PREPARATION	HYDRO- DEMOLITION	LATEX MODIFIED CONCRETE	PLACING & FINISHING LATEX MODIFIED CONCRETE	EVAZOTE JOINT SEALS	GROOVING BRIDGE FLOOR	ASPHALT CONC SURF.COURSE TYPE S9.5B
SQ.YDS.	SO.YDS.	SQ.YDS.	SO.YDS.	SQ.YDS.	C.Y.	SQ.YDS.	LUMP SUM	SQ.FT.	TON
532	0	10.1	0	398	16.3	391	LUMP SUM	3,141	12

\$\$\$\$\$\$\$YSTIME\$\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$USERNAME\$\$\$



+

C1



PROJE	CT NO.		17B	P.1.P	.2	
	GAT	ES	5	cc	UNTY	
BRIDG	E NO:			18		
SHEET 2 ()F 3					
DEPA	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
T,	TYPICAL SECTIONS					
	REVI	SION	S		SHEET NO.	
NO. BY:	DATE:	N0.	BY:	DATE:	5-2	
ป 2		3 4			SHEETS 10	
		1	NCBD	6	u ···	



²⁵⁻⁰CT-2011 10:45 Z:\Squad C\Deck\Division 1\Proj03_dcm\Deck Rehab 360018.dgn dmuler

+

NOTES

FOR EVAZOTE JOINT SEAL, SEE SPECIAL PROVISIONS. THE INSTALLED EVAZOTE JOINT SEALS SHALL BE WATERTIGHT.

NOMINAL UNCOMPRESSED SEAL WIDTH OF EVAZOTE JOINT SEAL SHALL BE $2^{1\!/}\!_{2}$.

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE EVAZOTE JOINT SEAL IN LIEU OF SAWING THE JOINT.

LASTOMERIC CONCRETE 11.7 (CU.FT.) BENTS 11.7 (CU.FT.) * TOTAL

* BASED ON THE MINIMUM BLOCKOUT SHOWN.

EXISTING OPENING (DECK) B SAWED OPENING (DECK) - (SEE SECTION B-B FOR DIMENSIONS) **→**D € JOINT @ BENT 17BP.1.P.2 PROJECT NO. GATES COUNTY 18 BRIDGE NO: SHEET 3 OF 3 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIG JOINT DETAILS REVISIONS NO. BY: DATE: NO. BY: DATE:

NCBDS

HEET NO S-3

total sheets 10

LATEX MODIFIED CONCRETE OVERLAY



\$\$\$\$\$\$\$\$ YST IME\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DCN\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$USERNAME\$\$\$

+

.

PROJECT NO. PERQUI	<u>17BP.1.P.2</u> MANS COUNTY
BRIDGE NO:	11
SHEET 2 OF 3	
	TE OF NORTH CAROLINA OF TRANSPORTATION RALEIGH
SURFACE PLAN / MA	E PREPARAION AND BILL OF TERIALS
REVI	SIONS SHEET NO.
NO. BY: DATE:	NO. BY: DATE: 5-5
1	SHEETS AL 10

C1	PROPOSED VARIABLE DEPTH ASPHALT CONCRETE SURFACE COURSE, TYPE SF 9.5B AT AN AVERAGE RATE OF 110 LBS. DEPE SO YD DEP 170EPTH TO BE DACED TH LAVERS NOT
_	LESS THAN 1" IN DEPTH OR GREATER THAN 11/2" IN DEPTH.

″IN	DEPTH	OR	GREATER	THAN	11/2″ IN	DEPTH.	

25-0CT-2011 10:50 Z:\Squad C\Deck\Division 1\Proj03_dcm\Deck Rehab 710011.dgn dmuller

+

+

NOTES

FOR EVAZOTE JOINT SEAL, SEE SPECIAL PROVISIONS. THE INSTALLED EVAZOTE JOINT SEALS SHALL BE WATERTIGHT.

NOMINAL UNCOMPRESSED SEAL WIDTH OF EVAZOTE JOINT SEAL SHALL BE $2^{1\!/}\!_{2}$.

THE CONTRACTOR WILL NOT BE PERMITTED TO FORM THE JOINT FOR THE EVAZOTE JOINT SEAL IN LIEU OF SAWING THE JOINT.

ELASTOMERIC	CONCRETE
BENTS	19.2 (CU.FT.)
* TOTAL	19.2 (CU.FT.)
* BASED ON THE MINIMUM	BLOCKOUT SHOWN.

\$\$\$\$\$\$\$\$ YST IME\$\$\$\$ \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DCN\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ \$\$\$\$USERNAME\$\$\$

+

²⁵⁻⁰CT-2011 10:57 Z1\Squad C\Deck\Division 1\Proj03_dcm\Deck Rehab 710031.dgn dmuller

PROJECT NO. <u>17BP.1.P.2</u> <u>PERQUIMANS</u> COUNTY					
BRIDG	E NO:			31	
SHEET 2 C	IF 3				
DEPA T 1	RTMENT		NORTH CAR	NSPORTA	tion NS
	PEVIS	TON	< .		SHEET NO
NO. BY:	DATE:	NO.	BY:	DATE:	S-8
1 2		3 4			total sheets 10
-		1	NCBD	6	

+

²⁵⁻⁰CT-2011 11:00 Z:\Squad C\Deck\Division 1\Proj03_dcm\17BP.1.P.3_Gates21_RR.dgn dm.ller

NOTES :

INFORMATION PERTAINING TO THE EXISTING BRIDGE IS FROM THE BEST INFORMATION POSSIBLE SINCE THIS INFORMATION IS SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR, THE CONTRACTOR SHALL HAVE NO CLAIM WHATSDEVER AGAINST THE DEPARTMENT OF TRANSPORTATION FOR ANY DELAYS OR ADDITIONAL COST INCURRED BASED ON DIFFERENCES BETWEEN THE EXISTING BRIDGE AS SHOWN ON THE PLANS AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

REMOVAL OF THE EXISTING CONCRETE SLOPE PROTECTION SHALL BE PERFORMED IN ORDER TO MINIMIZE IMPACT UPON THE ADJACENT STREAM AND BE IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.

PROPOSED SLOPE GRADE IS BASED UPON EXISTING TOE OF SLOPE AND A ONE FOOT WIDE EARTH BERM AT THE BOTTOM OF THE EXISTING END BENT CAP. IF ACTUAL CONDITIONS DIFFER FROM THAT SHOWN ON THE PLANS, THE ENGINEER SHALL BE CONSULTED FOR THE PROPER COURSE OF ACTION.

CLASS B RIP RAP SHALL BE IN ACCORDANCE WITH ARTICLES 876 AND 1042 OF THE STANDARD SPECIFICATIONS FOR #57 STONE, SEE SPECIAL PROVISIONS.

FOR CLEANING AND PAINTING OF BEARINGS, SEE SPECIAL PROVISIONS.

	TOTAL BILL OF MATERIALS						
RETE ION	RIP RAP CLASS B (1'-O"THICK)	FILTER FABRIC FOR DRAINAGE	#57 STONE	CLEANING AND PAINTING OF STEEL BEARINGS			
	TONS	SQUARE YARDS	CU. YARDS	EA			
	77 TONS	86 SQ YDS	30 CU YDS	30 EA			

PROJE	CT NO.	<u>178</u>	P.1.P.	.2
	GAT	ES	CO	UNTY
BRIDG	E NO:		21	
SHEET 1 0	F 1			
DEPA	RTMENT	E OF NORTH CAR OF TRAN RALEIGH	OLINA NSPORTA	TION
R	EPAI PROT END	R OF ECTIO BEN	SLOF ON A T #1	PE T
	REVIS	SIONS		SHEET NO.
NO. BY:	DATE:	NO. BY:	DATE:	TOTAL
2		2 4		sheets 10

INDEX OF SHEETS

TITLE

SHEET N

TMP-1

N

WB

TITLE SHEET, AND INDEX OF SHEETS LIST OF ROADWAY STANDARD DRAWINGS AND LEGEND GENERAL NOTES TEMPORARY TRAFFIC CONTROL PHASING PERQUIMANS BRIDGE #11 DETOUR ROUTE PERQUIMANS BRIDGE #31 DETOUR ROUTE GATES BRIDGE #18 DETOUR ROUTE

TRAFFIC MANAGEMENT STRATEGY

PROPOSED BRIDGE WORK TO BE PERFORMED USING THE FOLLOWING

PERQUIMANS CO. #11 ROAD CLOSURE W/OFFSITE DETOUR PERQUIMANS CO. #31 ROAD CLOSURE W/OFFSITE DETOUR

	00	
s Inc. uite 300	APPROVED: BITU HUUTTU- DATE: 9/8/2011	
TRAFFTC ENGINEER	SEAL	
ANSPORTATION DESIGNER	SY L WASHING	

	LEGEND	
	GENERAL	
	DIRECTION OF TRAFFIC FLOW	
	WORK AREA NORTH ARROW	ROADWAY S
	TRAFFIC CONTROL DEVICES	THE FOLLOWING ROADWAY STAND
	BARRICADE (TYPE III)	PROJECT SERVICES UNIT - N.C DATED JULY 2006 ARE APPLICA CONSIDERED A PART OF THESE
	▲ CONE ● DRUM	
	FLASHING ARROW PANEL (TYPE C) FLAGGER	<u>STD. NO.</u>
		1101.02 TE 1101.03 TE
	CHANGEABLE MESSAGE SIGN (CMS)	1101.04 TE 1101.11 TR 1110.01 ST
	TEMPORARY CRASH CUSHION	1110.02 P0 1135.01 C0 1145.01 BA 1150.01 FL
	TEMPORARY SIGNING	1205.01 PA 1205.02 PA
· •	✓ PORTABLE SIGN → STATIONARY SIGN	1250.01 PA 1251.01 RA
	STATIONARY OR PORTABLE SIGN	
	SIGNALS EXISTING PROPOSED C T E TEMPORARY P	
	PAVEMENT MARKINGS	
	EXISTING PAVEMENT MARKING (GRAY)	
	SKIP LINES	
	SOLID LINES	
	PAVEMENT MARKING SYMBOLS	
	A PAVEMENT MARKING SYMBOLS	
	M PAVEMENT MARKING ALPHANUMERIC CHARACTERS	
	PAVEMENT MARKERS	APPROVED: D
	CRYSTAL/CRYSTAL	Stantec Consulting Services Inc. 801 Jones Franklin Road Suite 300 Relation Nr. 27605
	♦ YELLOW/YELLOW	Image: Constraint of the second sec
		/ Manual C

PROJ. REFERENCE NO.	PROJ. REFERENCE NO. SHEET NO	э.
17BP.1.P.2	17BP.1.P.2 TMP-1A	A

TANDARD DRAWINGS

DARDS AS APPEAR IN "ROADWAY STANDARD DRAWINGS" -C. DEPARTMENT OF TRANSPORTATION - RALEIGH, N.C., ABLE TO THIS PROJECT AND BY REFERENCE HEREBY ARE PLANS:

TITLE

EMPORARY LANE CLOSURES EMPORARY ROAD CLOSURES EMPORARY SHOULDER CLOSURES RAFFIC CONTROL DESIGN TABLES STATIONARY WORK ZONE SIGNS OORTABLE WORK ZONE SIGNS CONES BARRICADES LAGGING DEVICES PAVEMENT MARKINGS - LINE TYPES & OFFSETS PAVEMENT MARKINGS - 2 LANE & MULTILANE RQADWAYS PAVEMENT MARKER SPACING RAISED PAVEMENT MARKERS

GENERAL NOTES

THE FOLLOWING GENERAL NOTES APPLY AT ALL TIMES FOR THE DURATION OF THE PROJECT EXCEPT WHEN OTHERWISE NOTED IN THE PLAN OR DIRECTED BY THE ENGINEER.

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.

LANE CLOSURE TIME RESTRICTIONS

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

DAY AND TIME RESTRICTIONS ROAD NAME

7:00 A.M.- 9:00 A.M. MONDAY THRU FRIDAY ALL ROADS 4:00 P.M.- 6:00 P.M. MONDAY THRU FRIDAY

HOLIDAY & HOLIDAY WEEKEND LANE CLOSURE TIME RESTRICTIONS

B) DO NOT CLOSE OR NARROW TRAVEL LANES DURING HOLIDAYS AND HOLIDAY WEEKENDS AS FOLLOWS:

ROAD NAME ALL BOADS

1) FOR ANY UNEXPECTED OCCURRENCE THAT CREATES UNUSUALLY HIGH TRAFFIC VOLUMES, AS DIRECTED BY THE ENGINEER.

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.

3) FOR EASTER, BETWEEN THE HOURS OF 7:00 A.M. THURSDAY AND 6:00 P.M. MONDAY.

4) FOR MEMORIAL DAY, BETWEEN THE HOURS OF 7:00 A.M. FRIDAY TO 6:00 P.M. TUESDAY.

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. 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.

LANE AND SHOULDER CLOSURE REQUIREMENTS

- C) LANE CLOSURES ARE REQUIRED WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN ANY PORTION OF A TRAVEL LANE. CONDUCT THE WORK SO THAT ALL PERSONNEL AND/OR EQUIPMENT REMAIN WITHIN THE CLOSED TRAVEL LANE.
- D) INSTALL ALL LANE CLOSURES ACCORDING TO THE PLANS, ROADWAY STANDARD DRAWINGS (1101.02), OR AS DIRECTED BY THE ENGINEER.
- E) 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.
- F) INSTALL LANE CLOSURES WITH THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE UPSTREAM SIDE OF TRAFFIC. REMOVE LANE CLOSURES AGAINST THE TRAFFIC FLOW, BEGINNING WITH DEVICES ON THE DOWNSTREAM STDE OF TRAFFIC.
- G) WHEN PERSONNEL AND/OR EQUIPMENT ARE WORKING WITHIN 15 FT OF AN OPEN TRAVEL LANE, CLOSE THE NEAREST OPEN SHOULDER USING ROADWAY STANDARD DRAWING NO. 1101.04 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL OR A LANE CLOSURE IS INSTALLED.
- H) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.
- I) 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 UNLESS THE WORK AREA IS PROTECTED BY BARRIER OR GUARDRAIL.

ROAD CLOSURES

- J) NOTIFY THE ENGINEER TWENTY ONE (21) CALENDAR DAYS PRIOR TO ANY TRAFFIC PATTERN ALTERATION.
- K) PROVIDE SIGNING AND DEVICES FOR ROAD CLOSURES ACCORDING TO THE TRAFFIC MANAGEMENT PLAN. COVER OR REMOVE ALL SIGNS AND DEVICES FOR ROAD CLOSURES WHEN NOT IN EFFECT.
- L) PROVIDE OFFSITE DETOUR ROUTE SIGNING AS SHOWN IN THE TRAFFIC MANAGEMENT PLAN. COVER OR REMOVE OFFSITE DETOUR SIGNING WHEN THE DETOUR IS NOT IN OPERATION. ALL OFFSITE DETOUR ROUTES MUST BE APPROVED BY THE ENGINEER PRIOR TO IMPLEMENTING.
- M) ENSURE ALL NECESSARY SIGNING IS IN PLACE PRIOR TO ALTERING ANY TRAFFIC PATTERN.
- N) WHEN CLOSING A ROADWAY OR DRIVEWAY PLACE TYPE III BARRICADES COMPLETELY ACROSS THE ROADWAY OR FROM CURB TO CURB, ATTACH BARRICADE MOUNTED "ROAD CLOSED" SIGN R11-2 AT ALL CLOSURE LOCATIONS. IF LOCAL TRAFFIC IS TO BE MAINTAINED STAGGER THE BARRICADES TO ALLOW ACCESS.
- 0) INSTALL SIGNS BEFORE BARRICADES WHEN CLOSING A ROADWAY TO TRAFFIC. REMOVE BARRICADES BEFORE SIGNS WHEN OPENING A ROADWAY TO TRAFFIC. INSTALL/REMOVE ROAD CLOSURE SIGNS AND BARRICADES IN A CONTINUOUS OPERATION AND WITHIN THE SAME CALENDAR DAY.

PAVEMENT MARK

- P) RECORD ALL THEY WILL
- Q) UPON COMPL PAVEMENT

BRIDGE/ROAD GATES 18/NC-GATES 21/US-PERQUIMANS 11/SR-1338 PERQUIMANS 31/SR-1336

FOLLOWS:

I INFS.

MISCELLANEOUS

- BY ENGINEER.

		الوجوا الكرجو واستكناكونو		
		[PROJ. REFERENCE NO.	SHEET NO.
		[17BP.1.P.2	TMP-2
INGS AND MARKE	RS			
LOCATIONS AND BE REPLACED I) TYPES OF EXISTIN N THE SAME LOCATIO	ig pav On on	EMENT MARKINGS A	AS
LETION OF ALL (MARKINGS AND P)THER CONSTRUCTION AVEMENT MARKERS OF	I OPER N THE	ATIONS INSTALL FINAL SURFACE A	٨S
NAME	MARKING		PAVEMENT MAR	KER
32	POLYUREA		PERMANENT RA	ISED
158	POLYUREA		PERMANENT RA	ISED
1/SR-1338	POLYUREA		PERMANENT RA	ISED

PERMANENT RAISED

R) TIE PROPOSED PAVEMENT MARKING LINES TO EXISTING PAVEMENT MARKING

POLYUREA

S) ALL DIMENSIONS AND STATIONS IN THE TRAFFIC MANAGEMENT PLAN AND PHASING ARE APPROXIMATE (+/-); FIELD ADJUST AS NECESSARY OR AS DIRECTED BY THE ENGINEER.

T) MAINTAIN DRIVEWAY ACCESS AT ALL TIMES, UNLESS OTHERWISE DIRECTED

U) ENSURE THE OVERSIZE/OVERWEIGHT PERMIT UNIT (919) 733-4740 HAS BEEN ADVISED OF THE ONGOING TRAFFIC OPERATIONS THROUGH THE DIVISION OFFICE.

GENERAL NOTES

TRAFFIC CONTROL PHASING

DO NOT CLOSE OR PERFORM WORK ON BRIDGES #11 AND #31 CONCURRENTLY

PERQUIMANS CO. BRIDGE #11

CLOSE SR 1338 (WYNNE FORK RD.) AND DETOUR TRAFFIC AS SHOWN ON SHEET TMP-4.

PERQUIMANS CO. BRIDGE #31

CLOSE SR 1336 (HARVEY POINT RD.) AND DETOUR TRAFFIC AS SHOWN ON SHEET TMP-5.

GATES CO. BRIDGE #18

CLOSE NC 32 AND DETOUR TRAFFIC AS SHOWN ON SHEET TMP-6.

GATES CO. BRIDGE #21

STANDARD DRAWING 1101.02 SHEET 1.

NO. SHEET NO.	PROJ. REFERENCE NO.
2 TMP-3	17BP.1.P.2
nadaranahani7-000-om8000000000000	anterior an

USE FLAGGER CONTROLLED LANE CLOSURES ALONG US 158 PER ROADWAY

TRAFFIC CONTROL PHASING

