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NOTES:

ASSUME LIVE LOAD = HL 93 OR ALTERNATE LOADING	<u>0(</u>
FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE GENERAL NOTE SHEETS AND SHEET S-109.	Tł
THIS BRIDGE (NEW SUPERSTRUCTURE) HAS BEEN DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS.	DE T(
THE BRIDGE (NEW SUPERSTRUCTURE)SHALL BE CONSTRUCTED USING TOP-DOWN CONSTRUCTION METHODS.THE USE OF A TEMPORARY CAUSEWAYOR WORK BRIDGE IS NOT PERMITTED.	PF
REMOVAL OF EXISTING STRUCTURE AT STATION 43+95.83 TO 55+16.87 CONSISTS OF 28 SPANS (40'-0") WITH 16 PRECAST CONCRETE CORED SLABS PER SPAN, WITH AN ASPHALT WEARING SURFACE AND A CLEAR ROADWAY WIDTH OF 40'-0". THE STRUCTURE SHALL BE FULLY CLOSED FOR THE DURATION OF THE PARTIAL SUPERSTRUCTURE REPLACEMENT.	<u>1.</u>
FOR ASBESTOS ASSESSMENT, SEE SPECIAL PROVISIONS.	
REMOVAL OF THE EXISTING SUPERSTRUCTURE SHALL BE PERFORMED SO AS NOT TO ALLOW DEBRIS TO FALL INTO ANY AREA BENEATH THE BRIDGE. THE CONTRACTOR SHALL REMOVE THE BRIDGE AND SUBMIT PLANS FOR DEMOLITION IN ACCORDANCE WITH ARTICLE 402-2 OF THE STANDARD SPECIFICATIONS.	3. 4.
THIS NEW SUPERSTRUCTURE CONTAINS THE NECESSARY CORROSION PROTECTION REQUIRED FOR A CORROSIVE SITE.	5.
FOR BILL OF MATERIALS, SEE QUANTITY SHEETS.	
NO KNOWN UTILITY CONFLICTS.	6.
FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.	7.
FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.	8.
FOR CRANE SAFETY, SEE SPECIAL PROVISIONS.	
FOR GROUT FOR STRUCTURES, SEE SPECIAL PROVISIONS.	9.
FOR SECURING VESSELS, SEE SPECIAL PROVISIONS.	_
THIS BRIDGE IS IN SEISMIC ZONE 1.	P/
ALL PAVEMENT MARKING WILL BE IN ACCORDANCE WITH THE TRANSPORTATION MANAGEMENT PLANS.	1.
ALL BAR SUPPORTS USED IN THE BARRIER RAIL AND PARAPET AND ALL INCIDENTAL REINFORCING STEEL SHALL BE EPOXY COATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.	2. 3.
FOR ADHESIVELY ANCHORED RODS OR DOWELS, SEE ARTICLE 420-13 OF THE STANDARD SPECIFICATIONS.	
FOR HYDRAULIC DATA AND OVERTOPPING FLOOD DATA, SEE ORIGINAL PLANS.	



PLACE EXISTING DECK	EXISTING SUBSTRUCTURE		END B SUPER REPLA	RIDGE STRUCTURE CEMENT	
ILLING, AND SUPERSTRUCTURE (ITP.)				STA. 55+16.8	7
	LX EXP. FIX FIX	EXM. FIX FIX	X EXP. FIX FIX	EXP. FIX SPAN 28	
				TO SOUTHPORT	►
	0		2		
* EXISTING OVERHEAD HIGH-VOLTAGE					
TRANMISSION LINE *	* EXISTING TRANMISS	SION TOWER (TYP.) *		* APPROXIMATE LOCATIO	N
LOCATION SKETCH					\neg
OOI-CAD PRESTRESSED CORED SLAB NOTES:		00I-CAD PRESTRESSED CO	DRED SLABS, CONTINUED:		
THE OLD OAK ISLAND ("OOI-CAD") PRESTRESSED UNIT IS A HYBRID MO	DIFIED SECTION	ANALYSIS & IMPLEMENTA	TION DETAILS:		
DEVELOPED BY COMBINING ELEMENTS FROM NCDOT STANDARDS FOR THE TOP-DOWN CONSTRUCTION PRESTRESSED CONCRETE CORED SLABS. THE DEPARTURES FROM STANDARDS. AS WELL AS ANALYSTS AND IMPLEMENT	E 18",21",AND DOI-CAD SECTION'S ATION NOTES ARE	1. THE UNIT WAS DESI Appropriate dead	GNED PER CURRENT SPECIFIC	ATIONS FOR HL-93 LIVE LOAD AND	
PROVIDED BELOW:		2. IN ORDER TO FACIL AS EXISTING GIRDE	ITATE TOP-DOWN CONSTRUCTI R SPAN SECTIONS (SPANS 29-	ON, THE PROPOSED SECTIONS, AS WELL 31) WERE CHECKED FOR A MANITOWOC 222	
MODIFIED DETAILS DESCRIPTION:		CRANE TO SIMULATE CRANE ANALYSIS WA	STRESSES PROVIDED BY CRA S PERFORMED ASSUMING TRAN	NE UNIT DURING CONSTRUCTION.THE ISVERSE POST-TENSIONING AND GROUT	
AVAILABLE 21"STANDARD FORMS. 2. EXTERIOR UNITS WILL BE CAST AT A DEPTH OF 20", BUT CAN US 2. EXTERIOR UNITS WILL BE CAST AT A DEPTH OF 18". BUT WITH A	DDITIONAL WIDTH	3. IF THE CONTRACTOR CORED SLAB UNIT S	WISH TO PLACE CRANES ON PANS, THEY MUST DEMOSTRATE	THE EXISTING 17"PRESTRESSED CONCRETE THAT THE UTILIZED CRANE CAN BE SAFEL	LY
TO ACCOMMODATE A 2-BAR METAL RAIL AS SHOWN IN PLANS. 3. SHEAR KEYS CAN REMAIN IN THE SAME LOCATION AS THE 21"FOR	RM, OR CAN HEIGHT	CARRIED BY THE STR 4. THE CONTRACTOR IS	RUCTURE. RESPONSIBLE FOR LIMITING	CRANE SIZE AND CONSTRUCTION LOADING	1
ADJUST TO MATCH THE REVISED DEPTH. 4. TOP STEEL IN THE INTERIOR UNITS WILL BE SHIFTED DOWN TO SECTION HETCHT FROM BOTTOM THIS IS IN OPDED TO ACCOUNT	MATCH THE 18" STANDARD	TO ENSURE SAFE CAR 5. THE CONTRACTOR IS PHASES OF CONSTRUM	RESPONSIBLE FOR THE STAB	CITATION ALL SPANS. ILITY OF ALL SPANS DURING ALL RETAG DRAWINGS SHOWING THE SAFETY	
GRINDING WHICH WILL BE PERFORMED TO PROVIDE APPROPRIATE RECEIVE THE PROPOSED PPC OVERLAY.	CROSS SLOPE TO	OF ALL EQUIPMENT	AND CONSTRUCTION LIVE LOA	DS AND DEAD LOADS ON THE BRIDGE.	
5. BECAUSE OF THE LOWERED TOP STEEL, 10" Ø VOIDS WILL BE USED THESE MUST BE CENTERED AT 9"FROM THE BOTTOM OF THE CROS) IN ALL SECTIONS. S SECTION FOR BOTH	MEASUREMENT AND PAYME	NT:		
6. NO ANCHOR DOWEL BLOCKOUTS WILL BE USED.EXISTING DOWELS LATERAL RESTRAINT WILL BE PROVIDED BY KEEPERS ON ENDS OF	WILL BE CUT AND F EACH BENT.	I. MEASUREMENT AND P THE SPECIAL PROVIS THE PAY TIEM USED	ATMENT FOR OUL-CAD SECTIO SION FOR FOR OOI-CAD PRES WILL BE	TRESSED CONCRETE CORED SLABS.	
 OOI CAD UNITS WILL USE GROUT AS SHOWN IN PLANS. EACH SPAN WILL HAVE EXTRA TRANSVERSE POST-TENSIONING AS 	SHOWN IN THE PLANS.	3'-0" × 1'-8" PRESTRE	SSED CONC CORED SLABS (LF)		
THIS WILL CONSIST OF DOUBLE TRANSVERSE POST-TENSIONING EACH SPAN. THE HEIGHT OF THE TRANSVERSE POST-TENSIONING W BOITOM OF SECTION	AI '/4 POINTS ALONG VILL BE AT 9¾″FROM	3'-2" X 1'-6" PRESTRE	SSED CONC CORED SLABS (LF)	ARS WITH STANDARD SPECTETCATIONS	
9. BEARINGS MAY CONSIST OF STANDARD INDIVIDUAL PADS FOR EA CONTINUOUS STRIP OF RUBBER OF THE SAME THICKNESS AND WI	CH BEAM, OR A DTH.	SECTION 1078 FOR F	PRESTRESSED CONCRETE MEMBE	RS.	
PARTIAL STRUCTURES REMOVAL (REMOVAL OF EXISTING STRUCTURES	AT STATION 43+95.83):				
1. REMOVE THE EXISTING CORED SLAB SUPERSTRUCTURE WITH ASPH AND BEARING ANCHORD RODS IN SPANS 1-28 FROM STATION 43+ STANDARD SPECIFICATIONS	ALT WEARING SURFACE (AWS), TH 95.83 TO STATION STA. 55+16.8	RAFFIC RAILING, BEARINGS 7 PER SECTION 402 OF THE		PROJECT NO. 15BPR.25	5
 USE CRANE MATTING TO PROTECT EXISTING DECK SURFACES. SUBMIT REMOVAL AND REPLACEMENT PLAN PRIOR TO BEGINNING 	WORK. THE PLAN SHALL INCLUD	E THE FOLLOW MINIMUM IT	EMS:	BRUNSWICK COL	JNTY
PHASING AND SCHEDULE FOR REMOVAL AND REPLACEMENT				BRIDGE NO. 14	
CRANE SIZE AND TYPE CRANE MATTING PROTECTION OF FXISTING STRUCTURE PLAN INCLUDING SAFE FO	ADING ON FXISTING/PROPOSED	SPANS			
DISPOSAL PLAN PROPOSED TRUCK ROUTE(S)			TH CAROLINA		ION
METHODS OF REMOVAL			ARY SEAL		^
TO FACILITATE REMOVAL. 5. DISPOSE OF EXISTING AWS, CORED SLABS, AND OTHER SUPERSTRU	TURE MATERIALS LEGALLY OFF-	SITE PER THE STANDARD	DocuSigned by:	GENERAL DRAWING	G
SPECIFICATIONS. 6. REMOVE EXISTING BEARINGS			Sanuel L. CUTIN 19C97095C75A467 4/12/2018	REPLACEMENT	
7. CUT AND GRIND EXISTING ANCHOR DOWELS FLUSH WITH THE TOP 8. COVER CUT DOWELS WITH EPOXY PAINT.	OF THE BENT CAPS.			REVISIONS	SHEET NO
3. ULEAN CAPS OF DEBRIS AND ENSURE FLAT/SMOOTH BEARING SUR	ALE UN TUP OF BENT CAP.		DOCUMENT NOT CONSIDERE	D NO. BY: DATE: NO. BY: DATE:	S-4 TOTAL SHEETS
			SIGNATURES COMPLETED	2 4	111