

PLAN - LIFT SPAN GRID DECK

NOTES:

GRID DECK WILL BE SUPPLIED BY THE DEPARTMENT. FOR REPLACEMENT OF STEEL GRID DECK, SEE SPECIAL PROVISIONS.

GRID DECK MANUFACTURER MAY ADJUST THE DIMENSIONS AND NUMBER OF PANELS BETWEEN FLOORBEAMS. GRID DECK PANEL WIDTHS SHALL NOT BE LESS THAN 5'-0" OR GREATER THAN 8'-8". NEW GRID DECK SHOP DRAWINGS SHALL INDICATE THAT PROPOSED PANEL DIMENSIONS HAVE BEEN FIELD VERIFIED AND ARE CONSISTENT WITH EXISTING AND PROPOSED FLOOR SYSTEM DIMENSIONS.

EXISTING FINGER JOINTS AT ENDS OF LIFT SPAN SHALL REMAIN, EXCEPT FOR SOUTHWEST CORNER THAT WILL BE RAISED AND REINSTALLED.

DIMENSIONS SHOWN ARE HORIZONTAL UNLESS OTHERWISE NOTED.

FOR MAINTAINING BALANCE OF LIFT SPAN, SEE MECHANICAL SPECIAL PROVISIONS.

GRID DECK REPLACEMENT PROCEDURE:

EXISTING GRID DECK PANELS AND EXISTING STRINGERS SHALL BE REMOVED AND REPLACED IN A PROGRESSIVE MANNER. GROUPS OF PANELS REMOVED SHALL BE REPLACED WITH NEW PANELS, WITH MINIMAL CLAMPS TO PROPOSED STRINGERS, BEFORE MOVING TO THE NEXT WORK AREA.

CONTRACTOR SHALL SUBMIT A PANEL AND STRINGER REMOVAL AND REPLACEMENT SEQUENCE TO THE ENGINEER FOR REVIEW PRIOR TO IMPLEMENTING ANY PARTIAL OR TOTAL BRIDGE CLOSURE.

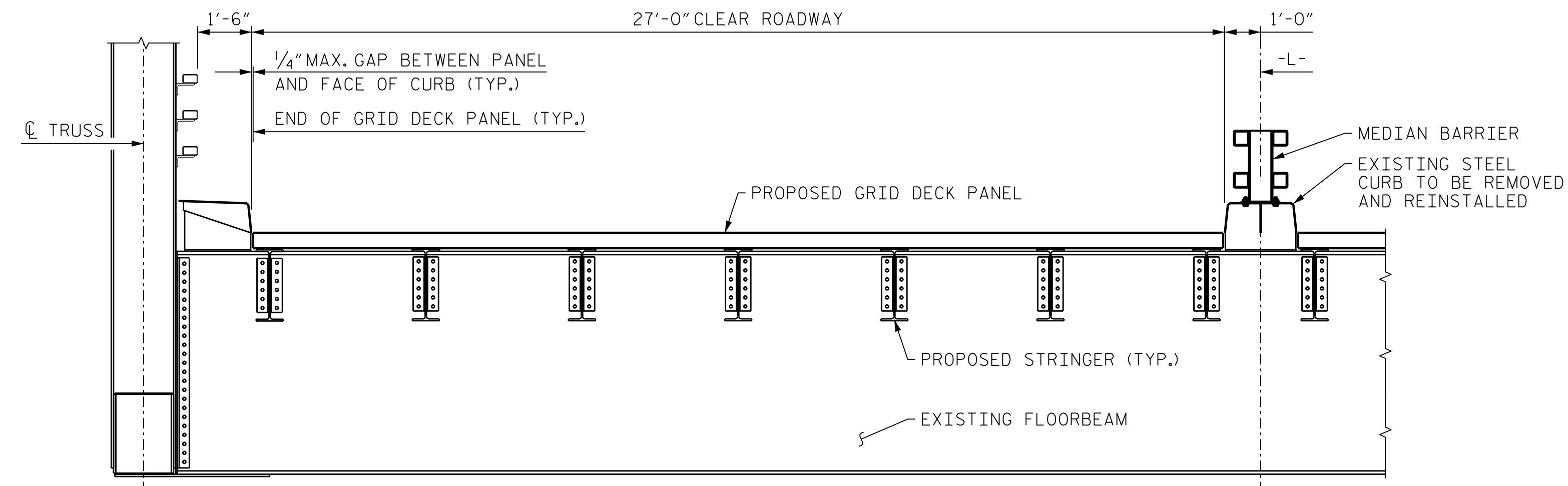
1. IMPLEMENT REQUIRED TRAFFIC CONTROL SCHEME PER THE TRAFFIC MANAGEMENT PLANS.
2. REMOVE EXISTING GRID DECK PANELS AND EXISTING STRINGERS. MINIMIZE UNBALANCED LOADING AND DEAD LOAD VARIATIONS DURING REMOVAL AND REPLACEMENT OPERATIONS. CONTRACTOR SHALL COORDINATE WITH THE DEPARTMENT AND COAST GUARD TO DETERMINE THE TIMELINE CONSTRAINTS FOR OPENING AND CLOSING THE LIFT SPAN.

GRID DECK REPLACEMENT PROCEDURE CONT.:

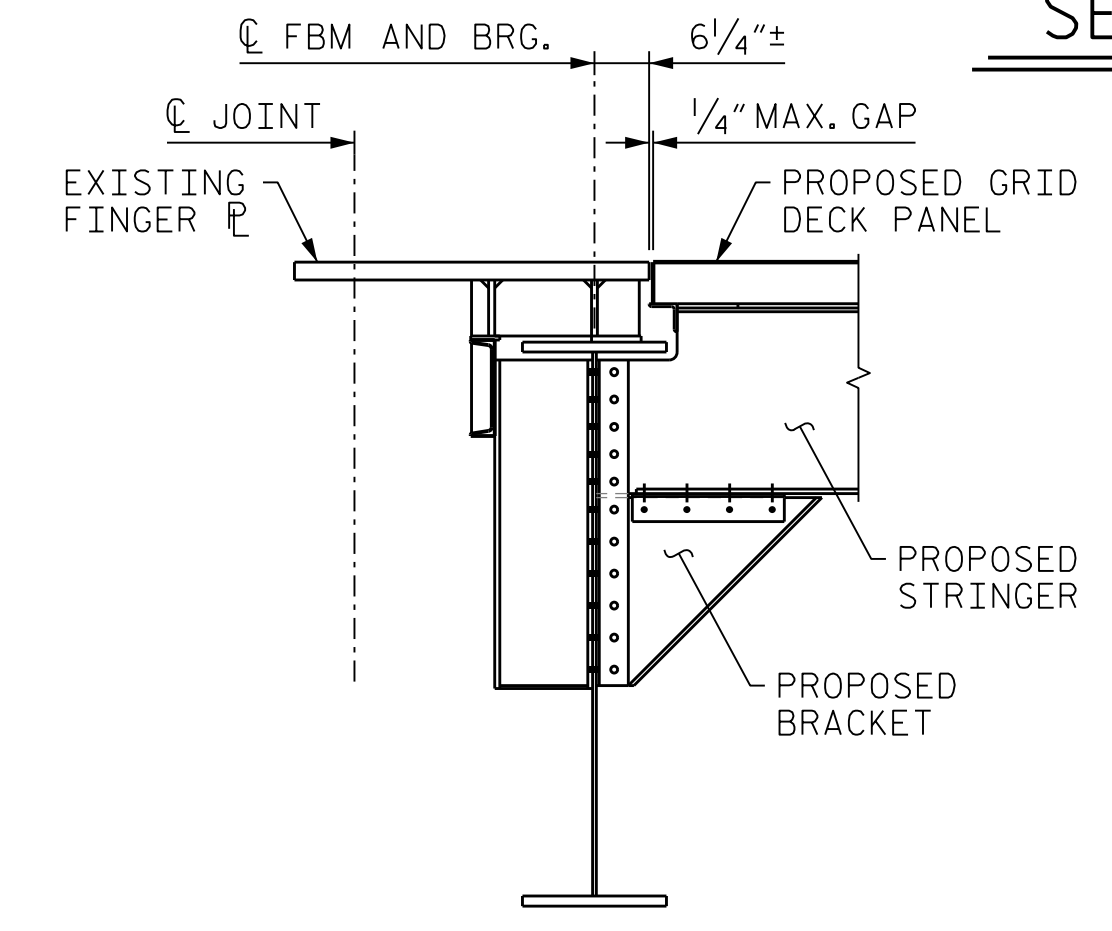
3. REMOVE THE FILL PLATES ON THE TOP FLANGE OF THE FLOORBEAMS AND GRIND SMOOTH. CLEAN AND PREPARE THE SURFACE IN ACCORDANCE WITH THE HRCSA MANUFACTURER'S RECOMMENDATIONS AND TO THE SATISFACTION OF THE ENGINEER. FIELD PAINT THE TOP OF THE FLANGE WITH HRCSA AS DEFINED BELOW.
4. AFTER LAYING OUT SEVERAL PANELS FOR ALIGNMENT, DETERMINE THE LOCATIONS WHERE THE GRID DECK WILL BE BOLTED TO THE STRINGER TOP FLANGE AND FIELD DRILL THE HOLES. CARE MUST BE TAKEN TO ASSURE PROPER ALIGNMENT. IT IS SUGGESTED TO HAVE A FLOORBEAM BAY (5 PANELS) LOCATED AND HELD IN PLACE BEFORE MARKING THE HOLES TO BE FIELD DRILLED THROUGH STRINGER AND FLOORBEAM TOP FLANGES.
5. PRIOR TO INSTALLING THE GRID DECK ONTO THE STRINGERS, EPOXY MASTIC SHALL BE APPLIED TO THE OUTSIDE EDGES OF THE SURFACES OF THE PLATE THAT WILL BE IN CONTACT WITH THE TOP OF THE TOP FLANGE OF THE NEW STRINGERS AND AROUND THE BOLT HOLES. WHILE THE EPOXY MASTIC IS STILL WET, PLACE THE GRID DECK AND HOLD-DOWN PLATES ON THE STRINGERS AND BOLT TOGETHER, SO AFTER BOLT TIGHTENING, EXCESS EPOXY MASTIC SHALL BE FORCED FROM ALL EXTERIOR EDGES OF THE PLATES. EXCESS EPOXY MASTIC AROUND THE EDGES OF THE REPAIR PLATES OR FABRICATED ANGLES SHALL BE REMOVED FOLLOWING THE MANUFACTURERS RECOMMENDATIONS.
6. REPEAT STEPS 2 THROUGH 5.

UPON COMPLETION OF ALL BOLTING OF PANELS TO FLOOR SYSTEM, FIELD PAINT ANY DAMAGED AREAS OF PAINT ON STRINGERS WITH HIGH RATIO CO-POLYMERIZED CALCIUM SULFONATE (HRCSA) IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. HRCSA SHALL BE TERMARUST TR2100 OR APPROVED EQUAL.

THE EPOXY MASTIC FOR THIS WORK SHALL BE COMPATIBLE WITH THE PAINT SYSTEM USED FOR THE PAINTING OF STRINGERS AND THE GALVANIZED GRID DECK PLATES. THE EPOXY MASTIC PROPOSED FOR USE SHALL BE SUBMITTED FOR REVIEW AND APPROVAL BY THE NCDOT MATERIALS AND TEST UNIT. THE EPOXY MASTIC WILL BE ACCEPTED ON THE BASIS OF THE MANUFACTURERS WRITTEN CERTIFICATION THAT THE BATCH PRODUCED IS COMPATIBLE AND MEETS THEIR PRODUCT SPECIFICATION.



SECTION A-A



SECTION B-B

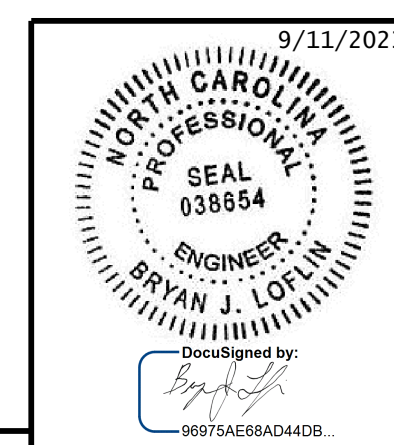
PROJECT NO. 15BPR.102.3
 NEW HANOVER COUNTY
 BRIDGE NO. 640013

SHEET 1 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH					
OPEN GRID DECK					
REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
					TOTAL SHEETS
					21



333 FAYETTEVILLE STREET, SUITE 500
 RALEIGH, NC 27601
 NC LICENSE NO. C-2979



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 UNLESS ALL SIGNATURES COMPLETED**

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