

GENERAL NOTES

STRUCTURAL

LAK - 44 - 5.10

OHIO

FHWA
REGION 5

11
24

STRUCTURES

REFERENCE SHALL BE MADE TO STANDARD DRAWINGS:

BR-2-82	DATED 11-1-82
SD-1-69	DATED 6-12-69
EXJ-4-87	DATED 1-5-89

AND TO SUPPLEMENTAL SPECIFICATIONS:

836	DATED 11-12-85
850	DATED 5-31-88
852	DATED 6-10-87

952	DATED 12-14-88
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DESIGN STRESSES:

CONCRETE CLASS S	- UNIT STRESS 1500 PSI
REINFORCING STEEL	- ASTM A615, A616, OR A617
	GRADE 60 - UNIT STRESS 24,000 PSI

DECK PROTECTION METHOD: CATHODIC PROTECTION SYSTEM AND SUPERPLAS-TICIZED DENSE CONCRETE OVERLAY.

SEE SHEETS [2/15] THRU [5/15] FOR ADDITIONAL PLAN NOTES FOR THE CATHODIC PROTECTION SYSTEM, INCLUDING MODIFICATIONS TO SUPPLEMENTAL SPECIFICATION 845, "BRIDGE DECK REPAIR AND OVERLAY WITH LATEX MODIFIED CONCRETE."

PORTIONS OF STRUCTURES REMOVED, AS PER PLAN

THE CONTRACTOR SHALL SUBMIT TO THE DIRECTOR A COMPLETE SCHEDULE OF CONSTRUCTION OPERATIONS ALONG WITH PLANS CONTAINING HIS PROPOSED METHODS OF PREVENTING DEBRIS FROM FALLING ON THE ROADWAY BELOW. THESE PLANS MUST BE SUBMITTED AND APPROVED PRIOR TO COMMENCING THE WORK. NO REMOVAL WORK SHALL BE STARTED WITHOUT PRIOR APPROVAL OF THE ENGINEER. SEE SHEET A/2A FOR ADDITIONAL NOTES.

THE MAJOR WORK ON THE BRIDGE IS AS FOLLOWS:

1. PATCH CONCRETE STRUCTURES WITH ITEM 519 AS PER PLAN OR ITEM SPECIAL-TROWELABLE MORTAR, WHERE APPROPRIATE.
2. INSTALL A CATHODIC PROTECTION SYSTEM TO THE BRIDGE DECK.
3. INSTALL 1-3/4" ⁶¹⁰ SDC OVERLAY ON THE BRIDGE DECK, INCLUDING VARIABLE AND FULL DEPTH REPAIRS.
4. INSTALL CONCRETE BARRIER SPLASH GUARDS TO BOTH SIDEWALKS ON THE BRIDGE AND APPROACHES.
5. SEAL CONCRETE SURFACES AS SHOWN ON SHEETS [6/15], [7/15], [8/15].
6. INSTALL SIDEWALK FENCE TO BOTH PARAPETS.
7. CLEAN AND PAINT ALL EXISTING STRUCTURAL STEEL.
8. REPAIR CRACKS IN UNDERSIDE OF DECK BY EPOXY INJECTION.
9. SOUND CONCRETE BRIDGE COMPONENTS.
10. VERTICALLY EXTEND STRUCTURAL EXPANSION JOINTS INCLUDING ELASTOMERIC STRIP SEALS, AS PER PLAN.
11. RESET BRIDGE BEARINGS.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTION 102.05 AND 105.02.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD.

ANY ADDITIONAL COST RESULTING FROM VARIATIONS FROM PLAN DIMENSIONS IS THE RESPONSIBILITY OF THE CONTRACTOR AND NO ADDITIONAL PAYMENT OVER THE UNIT PRICE BID WILL BE AWARDED.

EXISTING STRUCTURE PLANS

THE ORIGINAL DESIGN PLANS MAY BE EXAMINED BY PROSPECTIVE BIDDERS AT THE DEPARTMENT OF TRANSPORTATION, DISTRICT 12 OFFICE, 5500 TRANSPORTATION BLVD., GARFIELD HEIGHTS, OHIO. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS.

ITEM 202- PORTIONS OF STRUCTURES REMOVED

WORK TO BE PAID FOR UNDER THIS ITEM SHALL INCLUDE THE REMOVAL OF STRUCTURAL COMPONENTS AS DETAILED IN THE PLANS AND AS DIRECTED BY THE ENGINEER. THESE REMOVALS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING LIST:

1. PORTIONS OF BRIDGE.
2. APPROACH SIDEWALKS AT THE CURB.
3. ALUMINUM RAILING AND POSTS ON BOTH SIDEWALK PARAPETS.
4. SIDEWALK FENCE

ONLY PNEUMATIC OR HAND TOOLS THAT WILL GIVE RESULTS SATISFACTORY TO THE ENGINEER SHALL BE USED IN THE REMOVAL OF THE DISINTEGRATED CONCRETE. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGING THE EXISTING REINFORCING STEEL WHICH IS TO REMAIN IN PLACE. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 60 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT HAMMERS NOT TO EXCEED 90 POUNDS MAY BE USED WITH THE APPROVAL OF THE ENGINEER. NO HOE RAMS SHALL BE USED. ANY STEEL WHICH IS MADE UNUSEABLE BY THE CONTRACTOR'S CONCRETE REMOVAL OPERATIONS SHALL BE REPLACED WITH NEW STEEL AT HIS COST.

ALL ALUMINUM RAILING AND POSTS REMOVED, DUE TO PARAPET MODIFICATIONS, SHALL BE STOCKPILED FOR PICK-UP BY ODOT.

ITEM 509- REINFORCING STEEL, AS PER PLAN

THIS ITEM SHALL BE USED TO REPLACE REINFORCING STEEL WHICH IS BENT, ELONGATED, MISSING OR EXTREMELY CORRODED. BARS SHALL BE THE SAME SIZE AS ORIGINAL BARS AND SHALL BE PLACED AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION. BARS SHALL BE LAPPED ACCORDING TO SECTION 509.08. PAYMENT FOR THIS ITEM SHALL INCLUDE THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE ABOVE WORK, INCLUDING REMOVAL OF EXISTING STEEL. ANY EXISTING REINFORCING BARS WHICH ARE TO BE INCORPORATED INTO THE NEW WORK AND WHICH ARE MADE UNUSEABLE BY THE CONTRACTOR'S REMOVAL OPERATIONS SHALL BE REPLACED WITH NEW STEEL AT HIS COST.

THE FOLLOWING ESTIMATED QUANTITY OF REINFORCING STEEL IS TO BE USED WHERE AND AS DIRECTED BY THE ENGINEER, AND HAS BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM	DESCRIPTION	QUANTITY
509	REINFORCING STEEL, AS PER PLAN	200 POUNDS

TYING REBARS

THE PURPOSE OF THIS ITEM IS TO TIE EXPOSED STEEL REINFORCING BARS WHICH ARE IN CROSS CONTACT OR LAPPED. TACK WELDING SHALL NOT BE PERMITTED. THIS WORK SHALL BE PERFORMED WHERE AND AS DETERMINED BY THE ENGINEER TO RESTRICT THE RELATIVE MOVEMENT OF THE REINFORCING BARS.

PAYMENT FOR THIS WORK, INCLUDING EXTRA REMOVAL OF CONCRETE TO PERMIT TYING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 511 - CLASS "S" CONCRETE (VARIABLE THICKNESS) AS PER PLAN FOR CP.

ITEM 510 - DOWEL HOLES, AS PER PLAN.

THIS WORK SHALL CONFORM TO SUPPLEMENTAL SPECIFICATIONS 852 AND 952.

ITEM 511 - CLASS S CONCRETE SUPERSTRUCTURE, AS PER PLAN

THIS ITEM SHALL CONSIST OF FURNISHING AND PLACING PORTLAND CEMENT CONCRETE IN ACCORDANCE WITH ITEM 511 WITH THE FOLLOWING ADDITION:

1. ALL CONCRETE SURFACES THAT WILL BE IN CONTACT WITH CLASS S CONCRETE SHALL BE THOROUGHLY SANDBLASTED AND AIR CLEANED.

STRUCTURAL STEEL CLEANING AND COATING

A. AREAS TO BE COATED

1. ALL EXISTING STRUCTURAL STEEL SURFACES ON THE BRIDGE SHALL BE CLEANED AND COATED, INCLUDING SUCH ITEMS AS DRAINAGE CONDUCTORS AND BEARINGS.
2. ALL NEW STRUCTURAL STEEL SHALL ALSO BE CLEANED AND COATED WITH THE SAME PAINT SYSTEM THAT THE EXISTING STRUCTURAL STEEL IS RECEIVING.
3. NEW GALVANIZED STEEL SHALL NOT BE PAINTED.

B. LIMITATIONS OF OPERATIONS

NO NIGHT-TIME STRUCTURAL STEEL CLEANING AND COATING OPERATIONS SHALL BE PERMITTED.

NO SAND BLASTING OPERATIONS OR STEEL COATING OPERATIONS SHALL BE PERFORMED DURING THE PERIOD BEGINNING NOVEMBER 1ST AND ENDING MARCH 31ST.

THE APPLICATION OF ALL THREE COATS TO AN AREA SHALL IN ALL CASES BE COMPLETED DURING THE SAME CONSTRUCTION SEASON. AREAS WHICH DO NOT RECEIVE ALL THREE COATS DURING THE SAME CONSTRUCTION SEASON SHALL BE CONSIDERED UNSATISFACTORY AND SHALL BE RESANDBLASTED AND RECOATED AT THE CONTRACTOR'S EXPENSE.

~~D. INSTALLATION~~

~~FOR MATERIALS, SURFACE PREPARATION, APPLICATION, BASIS OF PAYMENT, AND ALL OTHER REQUIREMENTS, SEE THE PROPOSAL NOTE "FIELD PAINTING OF EXISTING STEEL, SYSTEM OZEU."~~

ITEM 518 - LIGHT BOX DRAIN EXTENSIONS

THIS ITEM SHALL INCLUDE THE FURNISHING OF ALL MATERIALS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY FOR INSTALLING THE DRAIN EXTENSIONS FOR EACH OF THE TWO LIGHT BOXES AS SHOWN ON THE DETAIL ON SHEET [7/15]. PIPE AND ANGLES SHALL BE CONNECTED TO OUTER PIER COLUMNS AND CAPS WHICH FACE THE EXISTING DRAINAGE DITCHES. INSTALLATION SHALL BE PERFORMED ONLY AFTER CONCRETE SEALING HAS TAKEN PLACE.

PAYMENT FOR THIS WORK SHALL BE PER LUMP SUM FOR ITEM 518 - LIGHT BOX DRAIN EXTENSIONS.

REVISED 11-19-90

Burgess & Niple, Limited
Engineers and Architects

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STRUCTURE GENERAL NOTES

BRIDGE NO. LAK - 44 - 0510
JACKSON STREET OVER S.R. 44

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
SJS	JLP		WAC	WAC 12/89	

Rev. 11/13/90