

GENERAL NOTES

CALC. BY _____ DATE _____	LAKE COUNTY	OHIO
CHKD. BY _____ DATE _____	LAK-90/271-1.88/0.00	FHWA REGION 5

160
185

ITEM 513 - STRUCTURAL STEEL, MISC.: MISCELLANEOUS STRUCTURAL STEEL REPAIR, AS PER PLAN

THIS ITEM SHALL PROVIDE FOR REPLACEMENT OF DETERIORATED STRUCTURAL STEEL MEMBERS, PRINCIPALLY ALL CROSSFRAME ANGLES AND NOTED GUSSET PLATES AT THE INTERMEDIATE TRANSVERSE DECK JOINTS.

STRUCTURAL STEEL UNDER THIS ITEM WILL NOT REQUIRE SHOP DRAWINGS PRIOR TO FABRICATION. THE CONTRACTOR SHALL MAKE NECESSARY MEASUREMENTS AND PREPARE SKETCHES, DRAWINGS, TABLES, ETC. THE ENGINEER SHALL HAVE AUTHORITY AND RESPONSIBILITY FOR ENSURING THAT THE FABRICATED STEEL IS ACCEPTABLE. TECHNICAL ASSISTANCE WILL BE PROVIDED ON REQUEST BY THE BUREAU OF BRIDGES. MILL TEST REPORTS AND SHIPPING DOCUMENTS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO INCORPORATING STEEL ITEMS INTO THE WORK, AS REQUIRED BY 501.07. AFTER FABRICATION THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR REVIEW AND APPROVAL TO ENSURE THAT THE DRAWINGS DEPICT THE STEEL AS ACTUALLY INCORPORATED INTO THE WORK. THE ENGINEER WILL THEN SEND ONE APPROVED SET TO THE BUREAU OF BRIDGES FOR INFORMATION. PAY WEIGHTS SHALL BE COMPUTED IN COMPLIANCE WITH 513 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND SUBMITTED TO THE ENGINEER FOR HIS REVIEW AND APPROVAL. THE FABRICATOR SHALL FURNISH A 35 MILLIMETER MICROFILM COPY OF EACH SHOP DRAWING, WHICH SHALL BE MOUNTED ON A APERTURE CARD AS SPECIFIED IN 501.05.

COST BID FOR THIS ITEM SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO REMOVE THE DETERIORATED MEMBER, PREPARE EXISTING STEEL FOR ATTACHMENT OF THE NEW MEMBER, WELDING, AND PAINTING UTILIZING SYSTEM OZEU. PAYMENT SHALL BE MADE UNDER:

ITEM	UNIT	DESCRIPTION
513	LBS.	STRUCTURAL STEEL MISC.: MISCELLANEOUS STRUCTURAL STEEL REPAIR, AS PER PLAN

ITEM 516 - STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN

THIS ITEM SHALL PROVIDE FOR THE REMOVAL OF THE EXISTING INTERMEDIATE EXPANSION JOINT AND THE INSTALLATION OF A REPLACEMENT JOINT ASSEMBLY WHICH INCLUDES AN ELASTOMERIC STRIP SEAL. REMOVAL AND INSTALLATION SHALL BE IN CONFORMANCE WITH THE DETAILS SHOWN IN THE PLANS AND STD. DWG. EXJ-4-87.

COST BID FOR THIS ITEM SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO REMOVE THE EXISTING JOINT ASSEMBLY AND TO INSTALL THE NEW SEALED JOINT ASSEMBLY INCLUDING REMOVAL AND REPLACEMENT OF PORTIONS OF THE EXISTING DECK AND PARAPET USING CLASS S CONCRETE, SEALING OF NEW PARAPET CONCRETE, AND PAINTING OF THE STRUCTURAL STEEL USING SYSTEM OZEU. PAYMENT SHALL BE MADE UNDER:

ITEM	UNIT	DESCRIPTION
516	L.F.	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN

ITEM SPECIAL - ROADWAY, MISC.: CHANNEL CLEANOUT

THIS ITEM PROVIDES FOR THE REMOVAL AND DISPOSAL OF DEBRIS LODGED AT THE STREAM PIERS OF BRIDGES NO. LAK-90-0605 L & R AND LAK-90-0645 L & R.

COST BID FOR THIS ITEM SHALL INCLUDE ALL LABOR AND EQUIPMENT NECESSARY TO COLLECT, REMOVE AND DISPOSE OF DEBRIS AS DIRECTED BY THE ENGINEER. PAYMENT SHALL BE MADE UNDER:

ITEM	UNIT	DESCRIPTION
SPECIAL	LUMP SUM	ROADWAY MISC.: CHANNEL CLEANOUT

QUANTITY LISTED IN PROJECT GENERAL SUMMARY.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

THIS ITEM SHALL CONSIST OF PATCHING EXISTING CONCRETE (TYPICALLY CURBS) AT THE LOCATIONS AS SHOWN IN THE PLANS AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH ITEM 519 AND THE FOLLOWING ADDITIONAL REQUIREMENTS:

1. SURFACE PREPARATION SHALL INCLUDE THE THOROUGH SANDBLASTING AND AIR CLEANING OF ALL SURFACES WHICH ARE TO BE IN CONTACT WITH THE PATCHING MATERIAL.
2. REMOVAL DEPTH SHALL BE 3 INCHES MINIMUM OR TO SOUND CONCRETE
3. NO STEEL WIRE FABRIC SHALL BE REQUIRED.
4. THE CONCRETE MAY BE TROWELLED IN PLACE, PROVIDING THAT AN ACCEPTABLE SMOOTH APPEARANCE CAN BE ACHIEVED AS DETERMINED BY THE ENGINEER.

PAYMENT SHALL BE MADE UNDER THE SQUARE FOOT UNIT PRICE FOR ITEM 519-PATCHING CONCRETE STRUCTURES, AS PER PLAN.

ITEM SPECIAL - SEALING OF CONCRETE SURFACES (EPOXY) (SEE PROPOSAL)

A SEALER SHALL BE APPLIED TO THE EXPOSED CONCRETE SURFACES OF THE BRIDGES AS LISTED BELOW. SEE THE PROPOSAL FOR SEALER MATERIAL AND SURFACE PREPARATION REQUIREMENTS AND APPLICATION RATES AND PROCEDURES.

1. PARAPETS (ALL FACES).
2. DECK EDGES AND THE URSIDE IN ANY BAY LOCATED ADJACENT TO AN OPEN OR SEALED JOINT FOR A MINIMUM DISTANCE OF FIVE FEET FROM THE JOINT INCLUDING DECK UNDERSIDE BETWEEN INTERIOR BEAMS.
3. PIERS, INCLUDING CAPS AND COLUMNS.
4. ABUTMENTS, INCLUDING BACKWALLS AND WINGWALLS.

ITEM 516 - RESET BEARING, AS PER PLAN

THE FOLLOWING PROCEDURE SHALL BE USED TO RESET TILTED ROCKERS:

1. RAISE ALL THE BEAMS UNIFORMLY, AT THE SUPPORT UNTIL THERE IS NO CONTACT BETWEEN THE SOLE PLATE AND THE ROCKER (1/4" MAXIMUM).
2. CLEAN AND RESET THE ROCKER AND BASE PLATE IN FINAL POSITION BY CENTERING THE BASE PLATE UNDER THE SOLE PLATE BOTH LONGITUDINALLY AND TRANSVERSELY. BEARINGS SHOULD BE VERTICAL AT 60° (+) F.
3. LOWER BEAM.
4. PAINT BEARINGS AS DIRECTED BY ENGINEER UTILIZING SYSTEM OZEU.

COST OF ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO CLEAN, PAINT AND RESET THE BEARINGS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 516; RESET BEARING, AS PER PLAN.

ITEM SPECIAL - MICRO SILICA MODIFIED CONCRETE OVERLAY. (2.0" THICK)

THIS ITEM SHALL INCLUDE THE COST OF THE 2 INCH SCARIFICATION REMOVAL OF THE EXISTING 1-3/4 INCH CONCRETE OVERLAY AND 1/4 INCH OF THE ORIGINAL DECK.

ITEM 518 - STRUCTURE DRAINAGE, MISC.: SCUPPER PLUGGING

THIS ITEM SHALL PROVIDE FOR PLUGGING EXISTING SCUPPERS AS CALLED FOR IN THE PLANS. THE FOLLOWING PROCEDURES SHALL BE IMPLEMENTED TO PLUG THE SCUPPER:

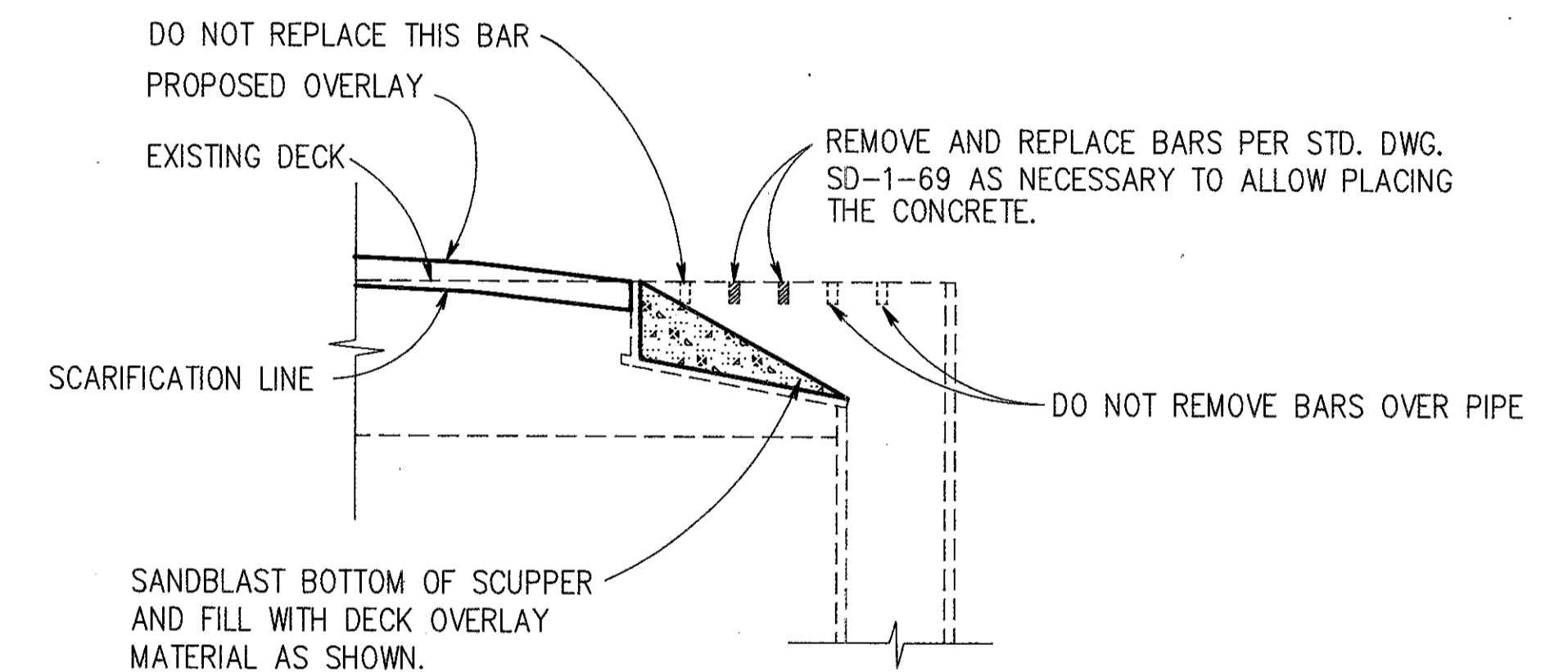
- A. REMOVE THE EXISTING 1 1/2"X 1/2" BAR DIRECTLY ABOVE THE 6 INCH DIA. PIPE OUTLET.
- B. PLUG THE OUTLET PIPE WITH A STEEL PLATE WELDED INTO THE PIPE.
- C. FILL THE SCUPPER BOX WITH CLASS S CONCRETE OR MSMC CONCRETE FLUSH WITH THE TOP OF SCUPPER.

COST BID FOR THIS ITEM SHALL INCLUDE ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY TO COMPLETE THE ITEM. PAYMENT SHALL BE MADE UNDER:

ITEM	UNIT	DESCRIPTION
518	EACH	STRUCTURE DRAINAGE, MISC.

ITEM 518 - SCUPPER MODIFICATION, AS PER PLAN

THIS ITEM PROVIDES FOR MODIFICATION OF EXISTING SCUPPERS, WHICH ARE TO REMAIN IN SERVICE, IN ACCORDANCE WITH THE DETAIL SHOWN BELOW:



DETAIL SHOWN TYPICAL FOR DECKS RECEIVING NEW OVERLAY.

FOR BRIDGE DECKS WHICH RECEIVE WEARING SURFACE TREATMENT INSTEAD OF A NEW OVERLAY, THE FILL MATERIAL SHALL BE CLASS S OR MSMC CONCRETE.

COST OF ALL LABOR, MATERIAL, AND EQUIPMENT NECESSARY TO MODIFY THE SCUPPERS IN ACCORDANCE WITH THESE PROVISIONS SHALL BE INCLUDED IN THE PRICE BID FOR:

ITEM	UNIT	DESCRIPTION
518	EACH	SCUPPER MODIFICATION, AS PER PLAN

STILSON & ASSOCIATES, INC.
CONSULTING ENGINEERING AND ARCHITECTURE
COLUMBUS AND CLEVELAND

STRUCTURE
GENERAL NOTES
LAK-90/271-1.88/0.00

LAKE COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
W.M.	R.T.P.		V.S.	G.W.M.	2/21/92	