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STRUCTURE REPAIR (BUT-SR4-23.17)	8-21
ARCHIVE SOIL PROFILES	

		DEPA	ST/ RTMENT	ATE OF OF T	- OHIO RANSPOI	RTATION	N		<b>PROJECT DESCRIPTION</b> REHABILITATE BRIDGE BUT-4-23.17 OVER THE GREAT MIAMI RIVER BY PATCHING AND STRENGTHENING PIERS WITH (FIBER REINFORCED POLYMERI FRP. REMOVE AND REPLACE BOTH PIER CAPS AND 2 FEET OF PIER STEMS AT PIER 4. REPLACE EXISTING BEARINGS AT PIER 4.				
		Βι	JT-	SR	4-2	3.17	7		EARTH DISTURBED AREAS PROJECT EARTH DISTURBED AREA: 0 ACRES ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.95 ACRES NOTICE OF INTENT EARTH DISTURBED AREA: N/A ACRES (MAINTENANCE PROJECT)				
	L	EMON	AND BUT	MADI LER	SON T COUNT	OWNSI Y	HIPS	Ę	2023 SPECIFICATIONS THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS AND CHANGES LISTED IN THE PROPOSAL SHALL	PID NO. 102783			
04" W			INDEX OF S TITLE SHEET MAINTENANCE C GENERAL SUMMA STRUCTURE REP ARCHIVE SOIL P	SHEETS: PF TRAFFIC RY PAIR (BUT-SR4-22 PROFILES	1 2-6 7 3.17) 8-21				I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.	CONSTRUCTION PROJECT NO.			
8,100 8,100 950 52% 10% 35 MPH 35 MPH		1								RAILROAD INVOLVEMENT NONE			
	A SUBJECT TAN ON * TOTAL SUBJECT TAN ON * TOT	-					1						
S D	IGNED: <u>T/12/2022</u> ENGINEERS SEAL: BLAKE C. STEPHENS EASIAS BLAKE C. STEPHENS EASIAS BLAKE C. STEPHENS EASIAS	RM-3.1 7/20/18   MT-95.31 7/19/19   MT-95.32 4/19/19   MT-95.41 1/17/20   MT-101.70 1/17/20   MT-102.10 1/17/20   MT-105.10 1/17/20   MT-105.10 1/17/20   MT-105.10 1/17/20   MT-105.10 1/17/20   DM-4.3 1/15/16   DM-4.4 1/15/16	STANDAR	D CONSTRUCTIO			SUPPLEMENTAL SPECIFICATIONS 800 01/19/24 821 229-18 832 7/21/23	SPECIAL PROVISIONS ABESTOS INSPECTION REPORT 10/1/22 WATERWAY PERMIT 03/07/24	APPROVED TOMONTOF TRANSPORTATION	-) BUT-SR4-23.17			
S D	IGNED: 1/13/2022	10-11.10 7/16/21								$\left  \begin{array}{c} 1 \\ 21 \end{array} \right $			

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	0.55												0.55	644	00100	0.55	MILE	EDGE LINE, 4"
	0.34												0.34	644	00200	0.34	MILE	CENTER LINE
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44	9												53	614	13360	53	EACH	OBJECT MARKER, TWO WAY
	0.01												0.01	614	20200	0.01	MILE	WORK ZONE LANE LINE, CLASS I, 4", 740.06, TYI
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DESCRIPTION	SHEET	SC ST LCUL
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# GENERAL NOTES CONTINUED:

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# ITEM SPECIAL - STRUCTURE, MISC.: TEMPORARY

CTHON STITE ACCESS IN ADDITION TO THE REQUIREMENTS SET FORTH IN THE WATERWAY PERMIT FOR THE CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL OF ALL TEMPORARY ACCESS ROADS AND FILL, THE CONTRACTOR SHALL ALSO MAKE NOTE OF AND COMPLY WITH THE FOLLOWING:

# IN-WATER WORK RESTRICTION DATES ARE FROM 4/15 TO 0/30.

TEMPORARY ACCESS FILL MAY NOT BE PLACED, MOVED OR REMOVED DURING THIS TIME FRAME.

THE TEMPORARY ACCESS FILL SHALL BE DESIGNED PER THE SPECIAL PROVISIONS. ANY DEVIATION TO THE SPAN. RISE. OR NUMBER OF CONDUITS WILL REQUIRE HYDRAULIC ANALYSIS USING THE MCD HECRAS MODEL. IN ADDITION TO THE SPECIAL PROVISION REQUIREMENTS, MCD REQUIRES THAT THE TAF BE CHECKED WITH THE OFFICIAL PLAN FLOOD (OPF) DISCHARGE. APPROVAL FROM MCD COULD TAKE A COUPLE OF MONTHS.

THE CONSTRUCTION MATERIALS SHALL BE STORED ABOVE THE 100 YEAR FLOOD ELEVATION 649.00 UNLESS PERFORMING ACTUAL INSTALLATIONS. UPON COMPLETION OF THE PROJECT. THE TEMPORARY FILLS WILL BE REMOVED AND DISPOSED OF IN AN UPLAND LOCATION OUTSIDE THE 100 YEAR FLOOD PLAIN OF THE STREAM AND ITS TRIBUTARIES.

ALL PERMANENT FILL MATERIAL SHALL BE LIMESTONE OR CONCRETE AND SHALL BE FREE OF SOILS AND ROCK FINES. ANY CONSTRUCTION FILL PLACED BELOW OHWM ELEVATION 633.35. MUST COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS. THE CONTRACTOR IS REQUIRED TO NOTIFY THE ENGINEER PRIOR TO THE INITIATION OF ANY WORK IN THE MASSIE CREEK.

THE CONTRACTOR SHALL ENSURE THAT PERMANENT AND/OR TEMPORARY ACCESS FILL MATERIALS ARE NOT DISCHARGED BEYOND THE ODOT PROJECT RIGHT-OF-WAY LIMITS. THE CONTRACTOR IS REQUIRED TO NOTIFY ODOT IMMEDIATELY OF ANY MATERIAL THAT MOVES BEYOND THE PROJECT RIGHT-OF-WAY BOUNDARIES. THE CONTRACTOR SHALL BE SUBJECT TO ALL PERMITS, REQUIREMENTS AND PENALTIES SET BY THE WATERWAY PERMIT(S) FOR FAILING TO MEET THE DISCHARGE REQUIREMENTS AND SHALL BE RESPONSIBLE FOR RECLAMATION OF DISCHARGED MATERIALS.

THE CONTRACTOR AND THE ENGINEER SHALL PERFORM A PRE-CONSTRUCTION INSPECTION OF THE SITE. WITH THE EXCEPTION OF THE PERMANENT FILL SHOWN IN THE PLAN, THE CONTRACTOR IS REQUIRED TO RESTORE THE SITE TO PRE-CONSTRUCTION CONDITIONS. ONCE THE TEMPORARY ACCESS FILL IS REMOVED, AND PRIOR TO COMPLETION OF PHYSICAL WORK, THE CONTRACTOR AND THE ENGINEER SHALL PERFORM A FINAL SITE INSPECTION TO ENSURE THAT THE SITE IS RESTORED TO PRE-CONSTRUCTION CONDITIONS. ANY VIOLATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM ODOT THAT THE RESTORATION IS SATISFACTORY. RESTORATION SHALL ADHERE TO ENVIRONMENTAL COMMITMENTS.

PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT THIER CONSTRUCTION WORK PLAN TO THE PROJECT ENGINER FOR APPROVAL. THE WORK PLAN SHALL INCLUDE PROPOSED METHODS FOR COFFERDAMS. DEWATERING AND MAINTAINING STREAM FLOW WHICH ADHERE TO ENVIRONMENTAL AND FLOOD PROTECTION REQUIREMENTS. ANY MODIFICATION TO THE APPROVED CONSTRUCTION WORK PLAN REQUIRES WRITTEN APPROVAL FROM THE ENGINEER. NO

# ITEM SPECIAL - STRUCTURE, MISC.: TEMPORARY CONSTRUCTION SITE ACCESS

ADDITIONAL PAYMENT WILL BE MADE FOR PROVIDING AN ALTERNATE DESIGN. THE CONTRACTOR IS REQUIRED TO INSTALL CONSTRUCTION BMP'S IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 832. ALL COSTS ASSOCIATED WITH CONSTRUCTION BMPS AND RELATED GRADING IS INCIDENTAL TO THE WORK PERFORMED.

THE CONTRACTOR IS REQUIRED TO PERFORM ALL IN-STREAM WORK IN ACCORDANCE WITH IN-STREAM AND WETLAND RESTRICTIONS AND INTERIM COMPLETION DATES WHERE APPLICABLE. THE CONTRACTOR IS REQUIRED TO COMPLETELY REMOVE ALL EQUIPMENT AND STORED MATERIALS FROM THE STREAM TO AN ELEVATION AT OR ABOVE THE 100 YEAR FLOOD ELEVATION WHEN FLOODING IS ANTICIPATED. AT NO TIME SHALL ANY CONSTRUCTION EQUIPMENT BE LEFT IDLE OR ALLOWED TO WORK IN A PARTIALLY SUBMERGED CONDITION. NO DEBRIS OR TEMPORARY EARTHWORK FILL/EXCAVATION SHALL BE LEFT IN THE STREAM OR ALONG THE STREAM BANKS. ALL EXCAVATED RIVER BOTTOM MATERIALS SHALL BE DISPOSED AND/OR STORED OFF-SITE AS NECESSARY. THE DISPOSAL/STORAGE SITE SHALL BE UPLAND AND LOCATED OUTSIDE OF THE 100 YEAR FLOOD BOUNDARY OF THE MASSIE CREEK.

THE CONTRACTOR SHALL PERFROM CLEARING AND GRUBBING AND GRADING AS REQUIRED TO ACCESS THE SITE. THE CONTRACTOR MAY CHOOSE AN ALTERNATE ENTRY LOCATION AND WILL BE RESPONSIBLE FOR ANY ACCESS AGREEMENTS.

UNLESS ITEMIZED SEPERATELY, ALL EQUIPMENT, MATERIAL, LABOR AND ANY MISCELLANEOUS APPURTENANCES ASSOCIATED WITH THE CONSTRUCTION, MAINTENANCE AND SUBSEQUENT REMOVAL OF THE TEMPORARY CONSTRUCTION ACCESS AND FILL AS WELL AS SITE INSPECTIONS, SURVEY, GRADING/EARTHWORK FOR SITE ACCESS SHALL BE INCLUDED FOR PAYMENT UNDER ITEM SPECIAL - TEMPORARY CONSTRUCTION SITE ACCESS.

## ITEM 512 SPECIAL - URETHANE TOP COAT SEALER THIS ITEM SHALL CONSIST OF THE APPLICATION OF A URETHANE TOP COAT SEALER OVER CONCRETE AREAS PREVIOUSLY COATED WITH FIBER WRAP.

THE AREA SHALL BE DRY AND FREE FROM DUST, DIRT, OIL, WAX, CURING COMPOUNDS, EFFLORESCENCE, LAITANCE AND OTHER FOREIGN MATERIALS WITH THE EXCEPTION OF THE FIBER WRAP.

THE COATING SHALL BE APPLIED BEFORE THE FINAL THICKENED EPOXY LAYER HAS BEEN ALLOWED TO CURE (AS DETERMINED BY THE MANUFACTURER) TO BETTER ADHERE TO THE COMPOSITE FIBER WRAP SYSTEM.

IF THE INSTALLED FRP IS ALLOWED TO COMPLETELY CURE PRIOR TO THE APPLICATION OF THE FINAL COATING, THE SURFACE GLOSS MUST BE BROKEN BY HAND SANDING OR LIGHT ABRASIVE BLASTING FOR PROPER ADHERENCE TO THE FINAL COATING.

THE COATING SYSTEM SHALL CONSIST OF THE APPLICATION OF A URETHANE TOP COAT SEALER OVER THE INSTALLED FRP SYSTEM. THE COLOR SHALL MATCH THE COLOR OF THE EXISTING SEALER AND THE MATERIAL AND APPLICATION SHALL CONFORM TO CMS 512.

THE COATING MATERIAL SUPPLIER MUST PROVIDE A LETTER VERIFYING THAT THE FULL COATING SYSTEM IS COMPATIBLE WITH THE INSTALLED FRP SYSTEM.

THE COST OF ALL LABOR, EQUIPMENT, AND MATERIAL NECESSARY TO ACCOMPLISH THIS ITEM OF WORK SHALL BE PAID FOR BY SQUARE YARDAGE COVERED.

ITEM SPECIAL - COMPOSITE FIBER WRAP SYSTEM SEE BRIDGE PLAN FOR DRAWINGS.

SEE PROPOSAL NOTE 519 FOR SPECIFICATIONS.

## DESCRIPTION

THIS WORK CONSISTS OF REMOVING EXCISING DETERIORATED FIBER WRAP, PREPARING THE UNDERLYING PATCHED CONCRETE SURFACES AND DESIGNING THE SYSTEM TO MEET THE REQUIREMENTS IN THE PLANS. FURNISH AND INSTALL A SINGLE LAYER OF FIBER REINFORCED POLYMER (FRP) COMPOSITE WRAP ORIENTED VERTICALLY OVER EACH REPAIR AREA DESIGNATED IN THE PLANS. FIBER MAY BE EITHER CARBON (CFRP) OR E-GLASS (EGFRP). EXTEND FIBER WRAP 12" BEYOND THE PATCH AREA.

1. CUT OUT ALL FIBER WRAP NOT ADHERED TO THE CONCRETE OR COVERING DETERIORATED CONCRETE USING A GRINDER WITH A CUTTING WHEEL

2. REMOVE ANY UNSOUND CONCRETE AND PATCH PER ITEM 519.

3. USE A ZEC WHEEL TO GRIND OFF THE ADJACENT EPOXY SEALER DOWN TO THE FABRIC/EPOXY LAYER. THE REMOVAL OF SEALER DOES NOT HAVE TO BE ANY LARGER THAN 4" FROM THE FRP REMOVAL CUT LINE EDGE.

4. AFTER THE PATCH HAS CURED OUT. APPLY THE NEW FABRIC PATCH IN ACCORDANCE WITH THE SPECIFICATION. RESEAL

5. THE CERTIFIED AND EXPERIENCED INSTALLER SHALL SUBMIT A QUALITY CONTROL AND QUALITY ASSURANCE PLAN FOR THE FRP INSTALLATION.

THE FRP SYSTEM SHALL BE INSTALLED UNDER THE DIRECT SUPERVISION OF A MANUFACTURER QUALIFIED TECHNICIAN UNTIL THE INSTALLER HAS DEMONSTRATED HIS ABILITY TO PERFORM THE INSTALLATION TO SATISFACTION OF THE ENGINEER AND THE MANUFACTURER

IN ADDITION, END OF PIER 6 CAP AS SHOWN IN PLAN NEEDS TO BE PATCHED AND WRAPPED. THIS WORK CONSISTS OF PREPARING EXISTING SOUND CONCRETE SURFACES AND DESIGNING THE SYSTEM TO MEET THE REQUIREMENTS IN THE PLANS. FURNISH AND INSTALL A SINGLE LAYER OF FIBER REINFORCED POLYMER (FRP) COMPOSITE WRAP ORIENTED VERTICALLY OVER ALL FACES OF THE PIER CAP INCLUDING END OF THE CAP WITHIN THE LIMITS AS SHOWN IN THE PLANS. FIBER MAY BE EITHER CARBON (CFRP) OR E-GLASS (EGFRP).

## MEASUREMENT AND PAYMENT

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THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES OF THE COMPLETED FRP COMPOSITE WRAP SYSTEM INCLUDING PREPARATION OF THE CONCRETE SUBSTRATE SURFACES AS FOLLOWS:

DESCRIPTION ITFM UNT7 SPECIAL SQUARE FEET COMPOSITE FIBER WRAP SYSTEM

# ABBREVIATIONS:

THE FOLLOWING ABBREVIATIONS HAVE BEEN USED THROUGHOUT THESE PLANS TO INDICATE THE DESIGNATIONS CONTAINED IN THE LEGEND BELOW:

ABUT. - ABUTMENT EWD. - EORWARD APPR. - APPROACH GALV. = GALVANIZED BTM. - BOTTOM GEN. - GENERAL - BEARING - LEFT FORWARD BEARINGS - LEFT · CENTERLINE MAX. - MAXIMUM - CENTER TO CENTER MIN. - MINIMUM CAST-IN-PLACE MISC. - MISCELLANEOUS - CONSTRUCTION JOINT MOT - MAINTENANCE OF TRAFFIC CLR. - CLEARANCE N.F. - NEAR FACE N.P.C.P.P. - NON-PERFORATED CONSTRUCTION AND MATERIAL SPECIFICATIONS **CORRUGATED** CONC. - CONCRETE PLASTIC PIPE CONSTR. - CONSTRUCTION NO./# - NUMBER - CONTRACTION 0/0 - OUT TO OUT CU YD - CUBIC YARD P.C.P.P - PERFORATED CORRUGATED - DIAMETER PLASTIC PIPE E.F. - EACH FACE P.E.J.F. - PREFORMED EXPANSION JOINT FILLER PG - PROFILE GRADE ELEV., EL. - ELEVATION EQUAL EX. - EXISTING PGL - PROFILE GRADE LINE PROP. - PROPOSED PT - POINT OF TANGENCY - EXPANSION - FORWARD ABUTMENT - FAR FACE PVC - POINT OF VERTICAL CURVATURE PVI - POINT OF VERTICAL INTERSECTION F.S. - FIELD SPLICE FT/FT - FOOT PER FOOT PVT - POINT OF VERTICAL TANGENCY FTG. - FOOTING R. - RADIUS

# ASBESTOS ABATEMENT

AN ASBESTOS SURVEY FOR SFN 0900397 SCHEDULED FOR RENOVATION WORK WAS CONDUCTED BY A LICENSED ASBESTOS HAZARD EVALUATION SPECIALIST. THE ASBESTOS SURVEY DID NOT IDENTIFY THE PRESENCE OF ANY ASBESTOS CONTAINING MATERIALS.

# ELECTRONIC SUBMISSION:

THE CONTRACTOR SHALL SUBMIT ELECTRONICALLY TO OEPA A COMPLETED NOTIFICATION OF DEMOLITION & RENOVATION FORM (NDRF) AND APPLICABLE FEES ALONG WITH THE ASBESTOS SURVEY REPORT. THE COMPLETED NDRF MUST BE SUBMITTED TO OFPA AT LEAST 10 DAYS PRIOR TO ANY DEMOLITION AND RENOVATION ACTIVITY. THE CONTRACTOR IS RESPONSIBLE FOR RETAINING AN ELECTRONIC COPY OF THE NDRF (IN PDF FORM) FOR SUBMISSION TO THE DISTRICT ENVIRONMETNAL STAFF AND A ONE HARD COPY TO THE PROJECT ENGINEER.

(GO TO THE OEPA EBUSINESS CENTER AND SUBMIT THE DNRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT)

# HARD COPY SUBMISSION:

THE CONTRACTOR MAY ELECT TO SUBMIT A HARD COPY OF THE COMPLETED NDRF AND PAYMENT ALONG WITH THE ASBESTOS SURVEY REPORT TO THE FOLLOWING:

ASBESTOS PROGRAM OR OHIO FPA, DAPC P.O. BOX 1049 COLUMBUS, OHIO 43216-1049

ASBESTOS PROGRAM OHIO EPA, DAPC 50 W. TOWN ST., SUITE 700 COLUMBUS, OHIO 43215

IF THE CONTRACTOR ELECTS TO SUBMIT A HARD COPY TO OEPA THEY ARE RESPONSIBLE FOR RETAINING A HARD COPY OF THE NDRF FOR SUBMISSION TO THE DISTRICT ENVIRONMETNAL STAFF AND A ONE HARD COPY TO THE PROJECT ENGINEER.

BASIS OF PAYMENT

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

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690E98400 ITEM SPECIAL - MISC.: WORK INVOLVING ASBESTOS CONTAINING MATERIALS - LUMP SUM

R.A. - REAR ABUTMENT RF RIGHT FORWARD RT RIGHT R/W - RIGHT OF WAY SAN - SANITARY SFR. - SFRIES SHT. - SHEFT S.O. - SERIES OF SPA. - SPACES OR SPACING SR - STATE ROUTE STA. - STATION - STANDARD STD. STM. - STORM STR. - STRAIGHT TBM - TEMPORARY BENCH MARK TEMP. - TEMPORARY T.O.S. - TOE OF SLOPE T/PARAPET - TOE OF PARAPET T/T - TOE TO TOE TYP. - TYPICAL U.G. - UNDERGROUND VAR. - VARIES VC - VERTICAL CURVE VERT. - VERTICAL W/O - WITHOUT



