

BR-1-89

LIMITATIONS OF OPERATIONS SUMMARY

THE CONTRACTOR'S ACTIVITIES AND WORK SCHEDULE SHALL BE CONSTRAINED BY THE FOLLOWING SPECIAL LIMITATIONS:

1. MAINTENANCE OF TRAFFIC RESTRICTIONS.
2. NO WORK SHALL BE PERFORMED DURING THE PERIOD BEGINNING NOVEMBER 1ST AND ENDING MARCH 31ST.

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 SECTIONS 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 AND DIMENSIONS WHICH HAVE BEEN VERIFIED BY THE CONTRACTOR IN THE FIELD. PLANS OF THE EXISTING STRUCTURE INCLUDING STANDARD DRAWINGS ARE AVAILABLE FOR EXAMINATION AT THE ODOT DISTRICT 12 OFFICE IN GARFIELD HEIGHTS, OHIO.

RIGHT-OF-WAY

ALL WORK WILL BE PERFORMED WITHIN THE EXISTING RIGHT-OF-WAY.

COOPERATION WITH RAILROADS

THE CONTRACTOR SHALL COOPERATE AT ALL TIMES WITH LOCAL OFFICIALS OF THE RAILROAD COMPANY. HE SHALL USE ALL REASONABLE CARE AND DILIGENCE IN THE WORK IN ORDER TO AVOID ACCIDENTS, DAMAGE OR INTERFERENCE WITH THE TRAINS OR OTHER PROPERTY OF THE RAILROAD. THE CONTRACTOR SHALL NOTIFY THE LOCAL OFFICIALS OF THE RAILROAD PRIOR TO STARTING WORK THAT MAY AFFECT RAILROAD PROPERTY AND FACILITIES AND SHALL PAY THE RAILROAD COMPANY THE COST OF FLAGMEN FURNISHED BY THE RAILROAD COMPANY AND MADE NECESSARY BECAUSE OF ANY OF THE CONTRACTOR'S OPERATIONS OVER OR ADJACENT TO THE TRACKS.

NO SCAFFOLD, PLANKS, OR OTHER EQUIPMENT SHALL BE SUSPENDED OR ERECTED ABOVE OR WITHIN 10' HORIZONTALLY OF A RAIL OVER WHICH TRAINS ARE OPERATING WITHOUT PRIOR WRITTEN APPROVAL OF THE CHIEF ENGINEER, OR HIS AUTHORIZED REPRESENTATIVE, OF THE RAILROAD COMPANY.

FAILURE TO NOTIFY THE RAILROAD COMPANY, AS NOTED ABOVE, SHALL BE CAUSE FOR STOPPING WORK UNTIL ALL PROVISIONS FOR PROTECTING RAILROAD PROPERTY HAVE BEEN PROVIDED.

COOPERATION BETWEEN CONTRACTORS

CONTRACTORS SHALL BE REFERRED TO SECTION 105.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

ITEM 202 - PORTIONS OF STRUCTURE REMOVED

THIS ITEM INCLUDES THE REMOVAL OF THE DRIP STRIP ON BR. NO. LAK-535-0039, THE REMOVAL OF SPALLED AREAS AND OF ALL OTHER LOOSE CONCRETE IN THE BOTTOM COVER CONCRETE ENCOUNTERED DURING DECK BOTTOM SOUNDING.

ITEM SPECIAL - RESETTING BEARINGS

THE FOLLOWING PROCEDURE SHOULD BE USED TO RESET THE BEARINGS:

1. RAISE THE GIRDER AT THE ABUTMENT UNTIL THERE IS NO CONTACT BETWEEN THE SOLE PLATE AND THE BEARINGS. MAXIMUM LIFT OF GIRDER SHALL BE 1/16" AT ABUTMENTS.
2. RESET THE ROCKER AND BASE PLATE OR BASE PLATE ONLY IN FINAL POSITION BY CENTERING THE BASE PLATE UNDER THE SOLE PLATE BOTH IN THE LONGITUDINAL AND TRANSVERSE DIRECTION.
3. LOWER GIRDER.
4. PLACE TROWELABLE MORTAR AROUND BASEPLATES AS SHOWN IN PLANS. MATERIAL SHALL BE IN ACCORDANCE WITH THE TROWELABLE MORTAR CONCRETE NOTE. THE COST SHALL BE INCLUDED IN THE CONTRACT PRICE FOR RESETTING THE BEARINGS.

PAYMENT SHALL BE AT THE CONTRACT PRICE BID FOR ITEM SPECIAL - EACH - RESETTING BEARINGS, WHICH SHALL INCLUDE ALL MATERIAL, LABOR, TOOLS AND INCIDENTALS NECESSARY TO RESET THE BEARINGS.

TROWELABLE MORTAR

- A. DESCRIPTION: THIS ITEM SHALL CONSIST OF TROWELING MORTAR AROUND THE BASEPLATES, AS SHOWN IN THE PLAN, AT LOCATIONS WHERE BEARINGS WERE RESET.
- B. MATERIALS: THE MORTAR SHALL BE SIKATOP 122 AND 123, THERMAL-CHEM PRODUCT NO. 304, POLYCARB MARK 193.4 AND 194, FIVE STAR HIGHWAY PATCH, UPCO BOSTICK 964, EUCLID CHEMICAL EUCO VERTICOAT, MASTER BUILDERS SET VERTIPATCH OR DURALTOP AND DURALPATCH GEL. THE MATERIAL SHALL BE TINTED TO CURE TO THE COLOR OF THE EXISTING CONCRETE. ALL MATERIALS SHALL BE STORED AND INCORPORATED IN THE WORK AS RECOMMENDED BY THE MANUFACTURER.
- C. SURFACE PREPARATION: CLEANING SHALL PRECEDE APPLICATION OF THE MORTAR BY NOT MORE THAN 24 HOURS. THE SURFACE ON WHICH THE MORTAR SHALL BE PLACED SHALL BE THOROUGHLY CLEANED BY SANDBLASTING FOLLOWED BY AN AIR BLAST. THE SURFACE SHALL BE MADE FREE OF SPALLS, LAITANCE AND ALL TRACES OF FOREIGN MATERIAL. IF NECESSARY, DETERGENT CLEANING SHALL PRECEDE BLAST CLEANING TO ENSURE THE REMOVAL OF CONTAMINANTS THAT ARE DETRIMENTAL TO ACHIEVING AN ADEQUATE BOND. THE PREPARED SURFACE SHALL BE LEFT IN THE CONDITION AS RECOMMENDED BY THE MANUFACTURER. ANY ADDITIONAL SURFACE PREPARATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS FOR THE PATCHING MATERIAL WHICH IS USED. ALL UNCHIPPED SURFACES THAT WILL RECEIVE NEW MATERIAL SHALL BE MECHANICALLY ROUGHENED.
- D. PLACING: THE MIXING, PROPORTIONING, PLACING AND CURING PROCEDURES AND TOOLS, EQUIPMENT, LABOR AND MATERIALS USED SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS. MORTAR SHALL BE PLACED AT A 2 TO 1 SLOPE AROUND THE PLATES.
- E. CURING: MORTAR SHALL BE CURED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- F. PAYMENT: THE COST OF ALL LABOR, EQUIPMENT, INCIDENTALS AND MATERIALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR RESETTING BEARINGS.

ITEM SPECIAL - SOUNDING OF CONCRETE BRIDGE COMPONENTS

THIS WORK SHALL CONSIST OF SUPPLYING THE MATERIALS, LABOR AND EQUIPMENT NECESSARY FOR SOUNDING CONCRETE BRIDGE COMPONENTS IN ORDER THAT THE ENGINEER MAY OUTLINE THE SPALLED AND DELAMINATED AREAS TO BE REMOVED. THE CONTRACTOR SHALL SOUND THE CONCRETE COMPONENTS LISTED BELOW WITH HAMMERS AND THE ENGINEER SHALL OUTLINE ALL UNSOUND AREAS FOR CONCRETE RESTORATION. THE FOOTAGE UNDER THIS ITEM SHALL BE THE NUMBER OF SQUARE FEET OF CONCRETE SURFACE THAT ARE SATISFACTORILY SOUNDED AND ACCEPTED. THE ACCEPTED QUANTITIES OF SOUNDING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT, WHICH PRICE AND PAYMENT SHALL BE FULL COMPENSATION FOR FURNISHING ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY FOR SOUNDING CONCRETE BRIDGE COMPONENTS. PAYMENT WILL BE MADE AS SPECIFIED BELOW FOR SOUNDING THE FOLLOWING CONCRETE COMPONENTS. (SEE SHEET 5 OF 13).

1. CURBS, SIDEWALKS, MEDIANS & PARAPETS
2. PIER CAPS, COLUMNS, & STEMS (DOWN TO GROUND OR WATER LINE)
3. ABUTMENTS

ITEM	UNIT	DESCRIPTION
SPECIAL	SQUARE FOOT	SOUNDING CONCRETE BRIDGE COMPONENTS

ITEM SPECIAL - PATCHING CONCRETE BRIDGE DECKS, TYPE II, AS PER PLAN

SOUNDING AND PATCHING SHALL BE DONE ON ALL DECK SURFACES. SEE THE PROPOSAL NOTE NO. 123 FOR MATERIALS, REMOVAL OF UNSOUND CONCRETE, SURFACE PREPARATION, BONDING GROUT AND PATCHING REQUIREMENT. IT SHALL BE NOTED THAT REMOVAL AREAS SHALL BE SAWED TO DEPTH OF 2" INSTEAD OF THE PROPOSED 1" DEPTH AS NOTED IN THE PROPOSAL NOTE. THE APPROXIMATE DEPTH OF EACH PATCH SHALL BE 5". THE EXTRA COST FOR THE DEEPER CUT SHALL BE INCLUDED IN THIS ITEM. THIS WORK SHALL BE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - EPOXY WATERPROOFING OVERLAY 1/4" THICK
AN EPOXY WATERPROOFING SHALL BE APPLIED TO THE BRIDGE DECK OF BR. NO. LAK-44-0620SW. SEE THE PROPOSAL FOR THE MATERIALS, APPLICATION, STORAGE AND HANDLING, SAMPLING AND ACCEPTANCE PROCEDURES.

ITEM SPECIAL - TREATING CONCRETE BRIDGE DECKS WITH HMWM RESIN

A SEALER SHALL BE APPLIED TO ALL THE BRIDGE DECKS AS NOTED ON SHEET 5 OF 13. ALL MATERIALS AND PROCEDURE SHALL CONFORM TO THE PROPOSAL NOTE. ON BRIDGE NOS. LAK-44-0561 L&R THE HMWM RESIN SHALL BE PLACED BEFORE THE MORTAR OVERLAY.

UTILITIES

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

ALL WORK SHALL BE IN ACCORDANCE WITH ITEM 105.06 OF THE CMS.

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

VILLAGE OF FAIRPORT HARBOR WATER DEPT
5 HIGH STREET
FAIRPORT HARBOR, OH 44077
PHONE: (216) 357-6343

STATE OF OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 12 BRIDGE DEPARTMENT						2 / 13
GENERAL NOTES						
BR. NOS. LAK-2/44/535-(1354 ES)/(0385) (0561 L&R),(0620 SW)/(0039)						
LAKE COUNTY						OHIO
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
B.G.W.	B.G.W.	B.G.W.	EJA	DWL	1-7-89	