STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS:

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

A-1-69	DATED: 07-19-02
AS-1-15	DATED: 07-17-15
GSD-1-19	DATED: 01-18-19
SICD-1-96	DATED: 07-18-14
SICD-2-14	DATED: 07-18-14
TST-1-99	DATED: 07-20-18

REFERENCE

EXISTING BRIDGE PLANS MAY BE INSPECTED AND ARE PROVIDED WITH THIS PROJECT'S BIDDING DOCUMENTS.

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION (2002), AND THE ODOT BRIDGE DESIGN MANUAL, 2019.

DESIGN LOADING

HL-93 WITH FUTURE WEARING SURFACE (FWS) OF 60 LBS./SQ. FT.

DESIGN DATA

CONCRETE CLASS OC2 - COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE) CONCRETE CLASS OC1 - COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE) REINFORCING STEEL - ASTM A615 OR A996, GRADE 60, MINIMUM YIELD STRENGTH 60 KSI STRUCTURAL STEEL - ASTM A709, GRADE 50, MINIMUM YIELD STRENGTH 50,000 PSI

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 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, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS THAT HAVE BEEN VERIFIED IN THE FIELD.

DECK PROTECTION METHOD

EPOXY COATED REINFORCING STEEL 21/2" CONCRETE COVER CURB AND SCUPPERS

ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN

A 2" DEEP X I" WIDE STRIP SHALL BE SAWCUT OUT OF ALL ROADWAY SURFACE ASPHALT ABUTTING THE BRIDGE AFTER THE FINAL SURFACE COURSE HAS BEEN CONSTRUCTED. JOINT SEALER AS PER 705.04 SHALL BE USED TO SEAL THE JOINT CREATED.

MONOLITHIC WEARING SURFACE

MONOLITHIC WEARING SURFACE IS ASSUMED, FOR DESIGN PURPOSES, TO BE 1 INCH THICK.

CUT LINE CONSTRUCTION JOINT PREPARATION

FOR ABUTMENT BACKWALL REMOVALS SAW CUT BOUNDARIES OF PROPOSED CONCRETE FOR ABUTMENT BACKWALL REMOVALS SAW CUT BOUNDARIES OF PROPOSED CONCRETE REMOVALS I INCH DEEP. REMOVE CONCRETE TO A ROUGH SURFACE. LEAVE THE EXISTING REINFORCING STEEL, IF REQUIRED IN THE PLANS, IN PLACE. INSTALL DOWEL BARS IF SPECIFIED. PRIOR TO CONCRETE PLACEMENT ABRASIVELY CLEAN JOINT SURFACES AND EXISTING EXPOSED REINFORCEMENT TO REMOVE LOOSE AND DISINTEGRATED CONCRETE AND LOOSE RUST. THOROUGHLY CLEAN THE JOINT SURFACE AND EXPOSED REINFORCEMENT OF ALL DIRT, DUST, RUST OR OTHER FOREIGN MATERIAL BY THE USE OF WATER, AIR UNDER PRESSURE, OR OTHER METHODS THAT PRODUCE SATISFACTORY RESULTS. EXISTING REINFORCING STEEL DOES NOT HAVE TO HAVE A BRIGHT STEEL ENISH BUT PEMOVE ALL DACK AND LOOSE PUST. THOROUGHLY BRIGHT STEEL FINISH, BUT REMOVE ALL PACK AND LOOSE RUST. THOROUGHLY DRENCH EXISTING CONCRETE SURFACES WITH CLEAN WATER AND ALLOW TO DRY TO A DAMP CONDITION BEFORE PLACING CONCRETE.

BRIDGE PAINTING LIMITATIONS

PRIOR TO THE ARRIVAL OF THE BRIDGE PAINTERS THE PRIME CONTRACTOR SHALL COMPLETE ALL CLEARING AND GRUBBING FROM WITHIN THE CONSTRUCTION LIMITS SHOWN INCLUDING REMOVAL OF ALL TREES. BRIDGE PAINTING/ ABRASIVE BLASTING WILL EXCLUDE END DAMS AND SCUPPERS TO BE GALVANIZED. PAYMENT FOR THE CLEARING AND GRUBBING IS INCLUDED IN ITEM 201 CLEARING AND GRUBBING.

PAINTING OF STRUCTURAL STEEL

ALL STRUCTURAL STEEL SHALL BE PAINTED IN ACCORDANCE WITH SECTION 514 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS. THE FINISH COAT COLOR SHALL BE GREEN FS-595C-14260.

PORTION OF STRUCTURE REMOVED, AS PER PLAN, SUBSTRUCTURE

THERE SHALL BE NO SAWCUTS BELOW THE BEAM SEAT ELEVATION AT ANY LOCATION EXCEPT AS DETAILED IN THE PLAN. ALL CONCRETE REMOVED FROM THE SAWCUT DOWN TO THE BEAM SEAT SHALL BE REMOVED BY MEANS OF APPROVED PNEUMATIC HAMMERS EMPLOYING POINTED AND BLUNT CHISEL TOOLS. HYDRAULIC HOE-RAM TYPE HAMMERS WILL NOT BE PERMITTED. THE WEIGHT OF THE HAMMER SHALL NOT BE MORE THAN 35 POUNDS FOR REMOVAL WITHIN 18 INCHES OF PORTIONS TO BE PRESERVED. OUTSIDE THE 18 INCH LIMIT, THE CONTRACTOR MAY USE HAMMERS NOT EXCEEDING 90 POUNDS UPON THE APPROVAL OF THE ENGINEER. DO NOT PLACE PNEUMATIC HAMMERS IN DIRECT CONTACT WITH REINFORCING STEEL THAT IS TO BE RETAINED IN THE REBUILT STRUCTURF.

PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE (CONCRETE)

DESCRIPTION: THIS WORK CONSISTS OF THE REMOVAL OF THE CONCRETE DECK INCLUDING PARAPETS FROM STEEL SUPPORTING SYSTEMS (GIRDERS, CROSSFRAMES, ETC.). THE PROVISIONS OF ITEM 202 APPLY EXCEPT AS SPECIFIED BY THE FOLLOWING NOTES. PERFORM WORK CAREFULLY DURING DECK REMOVALS TO PROTECT PORTIONS OF SUCH SYSTEMS THAT ARE TO BE SALVAGED AND INCORPORATED INTO THE PROPOSED STRUCTURE. THE USE OF EXPLOSIVES, HEADACHE BALLS AND/OR HOE RAM TYPE EQUIPMENT IS PROHIBITED. SUBMIT CONSTRUCTION PLANS ACCORDING TO CMS 501.05.

PROTECTION OF TRAFFIC: PRIOR TO DEMOLITION OF ANY PORTIONS OF THE EXISTING SUPERSTRUCTURE, THE CONTRACTOR SHALL SUBMIT PLANS FOR THE PROTECTION OF TRAFFIC (RAILROAD, VEHICULAR, PEDESTRIAN, BOAT, ETC.) AS PER CMS 2013 501.05.B.2.

PROTECTION OF STEEL SUPPORT SYSTEMS: BEFORE DECK SLAB CUTTING IS PERMITTED, DRAW THE OUTLINE OF PRIMARY STEEL MEMBERS IN CONTACT WITH THE BOTTOM OF THE DECK ON THE SURFACE OF DECK. DRILL SMALL DIAMETER PILOT HOLES 2 INCHES OUTSIDE THESE LINES TO CONFIRM THE LOCATION OF FLANGE EDGES. DECK CUTS OVER OR WITHIN 2 INCHES OF FLANGE EDGES SHALL NOT EXTEND LOWER THAN THE BOTTOM LAYER OF DECK SLAB REINFORCING STEEL. CUTS MADE OUTSIDE 2 INCHES OF FLANGE EDGES MAY EXTEND THE FULL DETUN WORK CAPERING OF THE OF THE FULL DEPTH OF THE DECK. PERFORM WORK CAREFULLY DURING CUTTING OF THE DECK. SLAB TO AVOID DAMAGING STEEL MEMBERS THAT ARE TO BE INCORPORATED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED INTO THE PROPOSED STRUCTURE. REPLACE OR REPAIR STEEL MEMBERS DAMAGED BY THE DECK SLAB CUTTING OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK, SUBMIT A PROPOSED REPAIR PLAN, DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

REMOVAL METHODS: THE CONTRACTOR MAY REMOVE CONCRETE BY CUTTING AND BY MEANS OF HAND OPERATED PNEUMATIC HAMMERS EMPLOYING POINTED OR BLUNTED CHISEL TYPE TOOLS. FOR REMOVALS OVER STRUCTURAL MEMBERS (STEEL GIRDERS) THE CONTRACTOR MAY USE A HAMMER HEAVIER THAN 35 POUNDS BUT NOT TO EXCEED 90 POUNDS UNLESS APPROVED BY THE ENGINEER. REMOVAL METHODS OVER STRUCTURAL MEMBERS SHALL ENSURE ADEQUATE DEPTH CONTROL AND PREVENT NICKING OR GOUGING THE PRIMARY STRUCTURAL MEMBERS.

DUE TO THE POSSIBLE PRESENCE OF ATTACHMENTS (E.G., FINISHING MACHINE SCUPPER AND FORM SUPPORTS, ETC.) TO EXISTING STRUCTURAL MEMBERS, PERFORM WORK CAREFULLY DURING DECK REMOVAL TO AVOID DAMAGING STRUCTURAL MEMBERS THAT ARE TO REMAIN. REPLACE OR REPAIR STRUCTURAL MEMBERS DAMAGED BY THE REMOVAL OPERATIONS AT NO COST TO THE PROJECT. AT LEAST 7 DAYS BEFORE PERFORMING REPAIR WORK. SUBMIT A PROPOSED REPAIR PLAN. DEVELOPED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER TO THE DIRECTOR. OBTAIN THE DIRECTOR'S APPROVAL BEFORE PERFORMING REPAIR.

EXISTING WELDED ATTACHMENTS: REMOVE EXISTING WELDED ATTACHMENTS (E.G., FINISHING MACHINE AND FORM SUPPORTS; AND SUPPORTS FOR SCUPPERS AND BULB ANGLES WHICH ARE TO BE REMOVED) LOCATED ON THE TOP FLANGES OF EXISTING STEEL MEMBERS AND GRIND THE FLANGE SURFACES SMOOTH. CAREFULLY GRIND PARALLEL TO THE FLANGES. THIS ITEM SHALL ALSO INCLUDE REMOVAL OF EXISTING WELDED ATTACHMENTS ON THE FASCIA BEAMS.

EXISTING END CROSSFRAMES: REMOVE THE EXISTING END CROSSFRAMES AND WELDS FROM THE BEAMS. THE CONTRACTOR SHALL BE CAREFUL WHEN REMOVING

ANY DAMAGE DONE TO THE BEAMS SO NO DAMAGE IS DONE TO THE BEAMS. AT HIS OWN EXPENSE. THIS ITEM SHALL ALSO INCLUDE FIELD DRILLING HOLES IN THE WEB OF THE EXISTING BEAMS FOR PLACEMENT OF THE DIAPHRAGM STEEL.

EXISTING EXPANSION JOINTS. REMOVE THE EXPANSION JOINTS. THE CONTRACTOR SHALL BE CAREFUL WHEN REMOVING THE EXPANSION JOINTS FROM THE BEAMS SO NO DAMAGE IS DONE TO THE BEAMS. ANY DAMAGE DONE TO THE BEAMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

MEASUREMENT & PAYMENT: THE DEPARTMENT WILL MEASURE THE QUANTITY OF CONCRETE REMOVALS ON A CUBIC YARD BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES OF REMOVALS AT THE CONTRACT PRICE FOR ITEM 202, PORTIONS OF STRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE (CONCRETE).

ITEM 202 REMOVAL MISC: EXISTING INTERMEDIATE CROSSFRAMES

THIS ITEM SHALL INCLUDE THE REMOVAL OF THE EXISTING INTERMEDIATE CROSSFRAMES SHOWN ON SHEET 12/25. THE CONTRACTOR SHALL BE CAREFUL WHEN REMOVING THE CROSSFRAMES AND WELDS FROM THE BEAMS SO NO DAMAGE IS DONE TO THE BEAMS. ANY DAMAGE TO THE BEAMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.

ALL WORK REQUIRED TO PERFORM THE ABOVE WORK SHALL BE PAID AT THE UNIT PRICE FOR ITEM 202 REMOVAL MISC: EXISTING INTERMEDIATE CROSSFRAMES.

ITEM 202 REMOVAL M.

THIS ITEM SHALL INCLUDE AS REMOVING RUST. WELD FOR THE ATTACHMENT OF ENSURE THAT THE NEW BEA SHALL BE CAREFUL WHEN F DAMAGE IS DONE TO THE E CONTRACTOR AT HIS OWN

ALL WORK REQUIRED TO P FOR ITEM 202 REMOVAL M

INSPECTION OF EXIST

THE ENGINEER WILL VISUAL AND/OR TOP FLANGE COVI AND GIRDERS ARE FREE OF DECK SLAB HAUNCH FORMS INTERFERE WITH THE ENGLI PLACE UNTIL THE TOP FLA WILL BE DONE BEFORE THE DEPARTMENT WILL PAY FO ITEM 202, PORTIONS OF S (CONCRETE). THE ENGINEE OF CONSTRUCTION ADMINI WITH SPECIFIC INFORMATIC SO AN EVALUATION AND R

WELDED ATTACHMENTS

WELD ATTACHMENT OF SUP OF THE FASCIA STRINGER ATTACHMENTS TO AREAS D FLANGES SHALL BE AT LEA AND BE AT LEAST 1/4" FOR THICK.

DECK PLACEMENT DESI

THE FOLLOWING ASSUMPTIC FOR THE ANALYSIS AND DE RESPONSIBLE FOR THE DES PARAMETERS AND WILL ASS DEVIATION FROM THESE DE

AN EIGHT WHEEL FINISHING TOTAL MACHINE LOAD OF

A MINIMUM OUT-TO-OUT W

A MAXIMUM SPACING OF ON

A MAXIMUM DISTANCE FROM THE SAFETY HANDRAIL OF

SURFACE SMOOTHNESS

AT THE COMPLETION OF W SHALL PERFORM THE FOLL

1. CLEAN, SWEEP, AND P.

2. MEASURE, GRIND, AND

3. PERFORM GROOVING OF

POROUS BACKFILL WI

POROUS BACKFILL WITH FIL OF THE SUBGRADE, UNLESS EMBANKMENT SURFACE, AND

FILL UNDER APPROACH

ITEM 304. AGGREGATE BAS THE NEW APPROACH SLABS SHALL EXTEND 1'-6" ON BO

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SC: BEARINGS THE REMOVAL OF ALL ABUTMENT BEARING COMPONENTS AS WELL AND ANY OTHER DEBRIS FROM THE BEAMS TO PREPARE THEM THE NEW BEARINGS. DRILL OUT EXISTING ANCHOR RODS AND RINGS HAVE A LEVEL SURFACE TO REST ON. THE CONTRACTOR EMOVING THE BEARINGS AND WELDS FROM THE BEAMS SO NO EAMS. ANY DAMAGE TO THE BEAMS SHALL BE REPAIRED BY THE EXPENSE. ERFORM THE ABOVE WORK SHALL BE PAID AT THE UNIT PRICE SC: BEARINGS.	DESIGN AGENCY OHIO DEPARTMENT OF TRANSPORTATION, DISTRICT 5
LY INSPECT ALL EXISTING BUTT-WELDED SPLICES R PLATE FILLET WELDS TO ENSURE THE WELDS, PLATES DEFECTS AND CRACKS. IF NECESSARY, REMOVE ALL IMMEDIATELY ADJACENT TO SUCH WELDS THAT MAY WER'S INSPECTION. THE INSPECTION WILL NOT TAKE NGES ARE CLEANED ACCORDING TO 511.10, BUT IT DECK SLAB REINFORCEMENT IS INSTALLED. THE R THE COST ASSOCIATED WITH THIS INSPECTION WITH TRUCTURE REMOVED, AS PER PLAN, SUPERSTRUCTURE R WILL REPORT ALL CRACKS FOUND TO THE OFFICE STRATION, BRIDGE CONSTRUCTION SPECIALIST, ALONG IN ON LOCATION OF THE CRACKS, LENGTH, AND DEPTH PAIR OR REPLACEMENT RECOMMENDATION CAN BE MADE. PORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS 'LANGES DESIGNATED "COMPRESSION". DO NOT WELD TSIGNATED "TENSION". FILLET WELDS TO COMPRESSION ST 1" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG,	DESIGNED DRAWN REVIEWED DATE JKS JKS TAG 2/7/20 CHECKED REVISED STRUCTURE FILE NUMBER TAG XXX 4505018
THICKNESSES UP TO % " OR %6" FOR GREATER THAN % " GN ASSUMPTIONS DNS OF CONSTRUCTION MEANS AND METHODS WERE MADE SIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS IGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS IGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS IGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE UME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR SIGN ASSUMPTIONS. MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.4 KIPS FOR A 9.2 KIPS. MEEL SPACING AT EACH END OF THE MACHINE OF 103". WEEL SPACING AT EACH END OF THE MACHINE OF 103". WEEL SPACING AT EACH END OF THE MACHINE OF 103". WEEHANG FALSEWORK BRACKETS OF 48". THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF 55". FOR BRIDGES AND APPROACHES DRK FOR ALL PHASES OF CONSTRUCTION THE CONTRACTOR DWING AS PER PROPOSAL NOTE 555: WEPARE THE FINAL DECK AND FINAL ROADWAY SURFACE. RE-MEASURE THE BRIDGE AND/OR ROADWAY AS NECESSARY. THE BRIDGE DECK. FH GEOTEXTILE FABRIC TER FABRIC, 2 FEET THICK SHALL EXTEND UP TO THE PLANE OTHERWISE STATED IN THE PLAN, TO I FOOT BELOW THE LATERALLY TO THE ENDS OF THE WINGWALLS.	BRIDGE NOTES BRIDGE NO. LIC-79-1991 OVER WILKINS RUN
SLABS E SHALL BE USED TO BRING THE SUBBASE TO GRADE FOR AS DETAILED ON THE APPROACH SLAB DETAIL SHEETS AND TH SIDES OF EACH APPROACH SLAB.	LIC - 79 - 19.90

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DESCRIPTION	SEE Sheet No.	OF TRICT 5
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LONGITUDINAL SHEAR CONNECTOR SPACING

PROFILE & CAMBER NOT SHOWN NOT TO SCALE

⅛″ DIA. x 7″

NOTES: WELDED ATTACHMENT OF SUPPORTS FOR CONCRETE DECK FINISHING MACHINE TO AREAS OF THE FASCIA STRINGER FLANGES DESIGNATED "COMPRESSION". DO NOT WELD ATTACHMENTS TO AREAS DESIGNATED "TENSION". FILLET WELDS TO COMPRESSION FLANGES SHALL BE AT LEAST I" FROM EDGE OF FLANGE, BE NO MORE THAN 2" LONG, AND BE AT LEAST 1/4" FOR THICKNESSES UP TO 34" OR 56" FOR GREATER THAN 34" THICK.

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<u> 30WF116</u>

LONGITUDINAL SHEAR CONNECTOR DETAIL

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CU C PID No. 97988 BRIDGE NO. LIC-79-1991 CHECKED REVISED STRUCTURE FILE NUMBER TRANSPORTA	14	LIC-79-19.90	SHEAR CONNECTORS	DESIGNED	drawn JKS	REVIEWED DATE TAG 2/7/20	DESIGN AGENCY OHIO DEPARTMENT OF
	25 2 3	PID No. 97988	BRIDGE NO. LIC- 79-1991 OVER WILKINS RUN	CHECKED TAG	revised XXX	STRUCTURE FILE NUMBER 4505018	TRANSPORTATION, DISTRICT 5