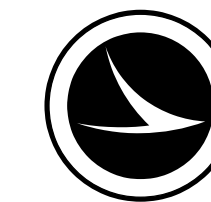


GENERAL SUMMARY



STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

REFER TO THE FOLLOWING STANDARD BRIDGE DRAWINGS:

AS-1-15	REVISED	1/20/23
AS-2-15	REVISED	7/21/23
SICD-1-21	REVISED	1/19/24
SICD-2-14	REVISED	1/15/21
SBR-1-20	REVISED	7/19/24
HL-50.21	REVISED	7/15/22 (TRAFFIC SCD)
VPF-1-90	REVISED	7/17/15

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION:
843 DATED 1/19/24

DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE 9th EDITION OF THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2020 AND THE ODOT BRIDGE DESIGN MANUAL, 2020.

DESIGN LOADING

DESIGN LOADING (DECK ONLY) INCLUDES:
VEHICULAR LIVE LOAD: HL-93
FUTURE WEARING SURFACE OF 0.00 KIPS/SF
(NORMAL DESIGN CRITERIA)

DESIGN DATA

CONCRETE CLASS QC2:
COMPRESSIVE STRENGTH 4.5 KSI (SUPERSTRUCTURE)

CONCRETE CLASS QC1:
COMPRESSIVE STRENGTH 4.0 KSI (SUBSTRUCTURE)

EPOXY COATED STEEL REINFORCEMENT-MINIMUM YIELD STRENGTH 60 KSI

STRUCTURAL STEEL - ASTM A709 GRADE 50:
YIELD STRENGTH = 50 KSI

STEEL H-PILES - ASTM A572: YIELD STRENGTH 50 KSI

MONOLITHIC WEARING SURFACE

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

EXISTING BRIDGE PLANS

THE EXISTING BRIDGE PLANS (ALL-30N-7.39) MAY BE INSPECTED IN THE OFFICE OF THE STRUCTURAL ENGINEERING IN COLUMBUS, OHIO OR AT THE ODOT DISTRICT OFFICE, 1885 McCULLOUGH STREET, LIMA, OHIO 45801

ITEM 509 - EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN

IN ADDITION TO THE PROVISIONS OF ITEM 509, FIELD BEND AND/OR FIELD CUT THE REINFORCING STEEL DESIGNATED IN THE PLANS, AS NECESSARY, IN ORDER TO MAINTAIN THE REQUIRED CLEARANCES AND BAR SPACINGS. REPAIR ALL DAMAGE TO THE EPOXY COATING, AS A RESULT OF THIS WORK, ACCORDING TO C&MS 709.00.

ITEM 516 - JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN

THIS WORK CONSISTS OF RAISING OR RE-POSITIONING EXISTING STRUCTURES TO THE DIMENSIONS AND REQUIREMENTS DEFINED IN THE PROJECT PLANS. SUBMIT CONSTRUCTION PLANS IN ACCORDANCE WITH C&MS 501.05. IF, DURING THE JACKING OPERATIONS DAMAGE TO THE STRUCTURE IS VISUALLY OBSERVED, IMMEDIATELY CEASE THE JACKING OPERATION AND INSTALL SUPPORTS TO THE SATISFACTION OF THE ENGINEER. ANALYZE THE DAMAGE AND SUBMIT A METHOD OF CORRECTION TO THE ENGINEER FOR APPROVAL.

THE DEPARTMENT WILL NOT PAY FOR THE COST OF REQUIRED REPAIRS. THE BRIDGE BEARINGS SHALL BE FULLY SEATED ALL CONTACT AREAS. IF FULL SEATING IS NOT ATTAINED, SUBMIT A REPAIR PLAN TO THE ENGINEER. THE DEPARTMENT WILL NOT PAY FOR THE REPAIR COSTS TO ENSURE FULL SEATING ON BEARINGS. THE DEPARTMENT WILL MEASURE THIS WORK ON A LUMP SUM BASIS. THE DEPARTMENT WILL PAY FOR THE ACCEPTED QUANTITIES AT THE CONTRACT PRICE FOR ITEM 516, JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN.

INSPECTION OF EXISTING STRUCTURAL STEEL

THE ENGINEER WILL VISUALLY INSPECT ALL EXISTING BUTT-WELDED SPLICES AND/OR TOP FLANGE COVER PLATE FILLET WELDS TO ENSURE THE WELDS, PLATES AND BEAMS OR GIRDERS ARE FREE OF DEFECTS AND CRACKS. IF NECESSARY, REMOVE ALL DECK SLAB HAUNCH FORMS IMMEDIATELY ADJACENT TO SUCH WELDS THAT MAY INTERFERE WITH THE ENGINEER'S INSPECTION. THE INSPECTION WILL NOT TAKE PLACE UNTIL THE TOP FLANGES ARE CLEANED ACCORDING TO C&MS 511.10, BUT IT WILL BE DONE BEFORE THE DECK SLAB REINFORCEMENT IS INSTALLED. THE DEPARTMENT WILL PAY FOR THE COST ASSOCIATED WITH THIS INSPECTION WITH ITEM 511 - SUPERSTRUCTURE CONCRETE. THE ENGINEER WILL REPORT ALL CRACKS FOUND TO THE OFFICE OF CONSTRUCTION ADMINISTRATION, BRIDGE CONSTRUCTION SPECIALIST, ALONG WITH SPECIFIC INFORMATION ON LOCATION OF THE CRACKS, LENGTH, AND DEPTH SO AN EVALUATION AND REPAIR OR REPLACEMENT RECOMMENDATION CAN BE MADE

EXISTING STRUCTURE VERIFICATION

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 THE ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD. SEE THE ITEM 623 AS-PER-PLAN NOTE ON SHEET 5 OF 38.

DECK PLACEMENT DESIGN ASSUMPTIONS

THE FOLLOWING ASSUMPTIONS OF CONSTRUCTION MEANS AND METHODS WERE MADE FOR THE ANALYSIS AND DESIGN OF THE SUPERSTRUCTURE. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF THE FALSEWORK SUPPORT SYSTEM WITHIN THESE PARAMETERS AND WILL ASSUME RESPONSIBILITY FOR SUPERSTRUCTURE ANALYSIS FOR DEVIATION FROM THESE DESIGN ASSUMPTIONS.

AN EIGHT WHEEL FINISHING MACHINE WITH A MAXIMUM WHEEL LOAD OF 2.2 KIPS.

A MINIMUM OUT-TO-OUT WHEEL SPACING AT EACH END OF THE MACHINE OF 103 INCHES.

A MAXIMUM SPACING OF OVERHANG FALSEWORK BRACKETS OF 48 INCHES.

A MAXIMUM DISTANCE FROM THE CENTERLINE OF THE FASCIA GIRDER TO THE FACE OF THE SAFETY HANDRAIL OF 65 INCHES.

ITEM 503, UNCLASSIFIED EXCAVATION, AS PER PLAN

THE BACKFILL MATERIAL BEHIND THE ABUTMENTS SHALL BE TYPE B GRANULAR MATERIAL, 703.16C, PLACED AND COMPACTED IN 6 INCH LIFTS.

ITEM 526, REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN

INSTALL APPROACH SLAB PER CURRENT STANDARDS EXCEPT USE HOT APPLIED ITEM 516 JOINT SEALER (705.04) IN A 1/2"X2 1/4" GROOVE WITH WATERPROOFING IN THE JOINT (SEE DETAIL ON SHEET 8/17).

ITEM 513 - STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN:

ALL REQUIREMENTS OF C&MS 513 APPLY TO SHOP FABRICATED MEMBERS. PERFORM WORK FOR FIELD FABRICATED MEMBERS ACCORDING TO ITEM 513, EXCEPT AS MODIFIED HEREIN. THE DEPARTMENT WILL NOT REQUIRE THE CONTRACTOR PERFORMING FIELD FABRICATION TO BE PRE-QUALIFIED AS SPECIFIED IN S1078. SUBMIT A WRITTEN LETTER OF MATERIAL ACCEPTANCE IN ACCORDANCE WITH C&MS 501.06, TO THE ENGINEER. PROVIDE THE ENGINEER "AS BUILT" DRAWINGS ACCORDING TO C&MS 513.06, EXCEPT C&MS 501.04 DOES NOT APPLY. UPON RECEIPT OF THE ENGINEER'S ACCEPTANCE, SUPPLY A COPY OF THE DRAWINGS, ACCORDING TO S1002, TO THE OFFICE OF MATERIAL MANAGEMENT FOR RECORD PURPOSES.

THE FOLLOWING MEMBERS ARE INCLUDED IN THIS ITEM: BEARING STIFFENER PLATES AS DETAILED ON SHEET 9/17 .

STRUCTURE GROUNDING SYSTEM

DUE TO THE VANDAL PROTECTION FENCE, THIS STRUCTURE REQUIRES A GROUNDING SYSTEM CONFORMING TO SCD NUMBER HL-50.21. ALL COSTS NECESSARY TO CONSTRUCT THIS SYSTEM ARE PAID PER EACH WITH ITEM 625 - STRUCTURE GROUNDING SYSTEM.

ITEM 514 - FIELD PAINTING, MISC.: COATING OF BEAM ENDS

PRIOR TO ENCASING THE BEAM ENDS, PREPARE THE ENDS PER SSPC SP10 OR SSPC SP11 TO BARE METAL ACHIEVING A 1.5 TO 3.5 MIL PROFILE. PAINT THE BEAM ENDS WITH ORGANIC ZINC PRIME COAT PER C&MS 514. PROVIDE THE PRIME COAT THICKNESS AS PER C&MS 514.20. EXTEND THE LIMITS OF THE BEAM PREPARATION AND PAINTING 1-FT BEYOND THE LIMITS OF THE DIAPHRAGM CONCRETE.

AFTER THE DIAPHRAGM CONCRETE IS SET, SEAL THE INTERFACE BETWEEN THE BEAM AND CONCRETE WITH CAULK.

THE DEPARTMENT WILL PAY FOR ALL ABOVE LABOR, MATERIALS, EQUIPMENT, AND INCIDENTALS REQUIRED FOR COATING BEAM ENDS AT CONTRACT BID PRICE PER EACH ITEM 514 - FIELD PAINTING, MISC.: COATING OF BEAM ENDS.

GENERAL NOTES
BRIDGE NO. ALL-65-13.250
SR 65 OVER US 30

SFN 0201413	
DESIGN AGENCY	
DESIGNER MJS	CHECKER NER
REVIEWER RTH 06-05-25	
PROJECT ID 112133	
SUBSET 2	TOTAL 17
SHEET P.23	TOTAL 38

ESTIMATED QUANTITIES										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	APPR. SLAB	ABUT.	PIERS	SUPER.	RAILING	SEE STRUCTURE SHEET NO.
202	11203	LS		PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN		LS		LS		3
202	22900	189	SY	APPROACH SLAB REMOVED	189					
503	21300	LS		UNCLASSIFIED EXCAVATION		LS				
509	10001	92049	LB	EPOXY COATED STEEL REINFORCEMENT, AS PER PLAN		6292		73156	12601	2
509	30020	7854	FT	NO. 4 DEFORMED GFRP REINFORCEMENT					7854	
510	10000	100	EACH	DOWEL HOLES WITH NONSHRINK METALLIC GROUT		100				
511	33500	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE		2				
511	34446	305	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK		42		263		
511	34450	82	CY	CLASS QC2 CONCRETE WITH QC/QA, BRIDGE DECK (PARAPET)					82	
511	45710	20	CY	CLASS QC1 CONCRETE, ABUTMENT		20				
512	10100	953	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)		140	248	81	484	
513	10201	2375	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN				2375		2
513	20000	3255	EACH	WELDED STUD SHEAR CONNECTORS				3255		
514	00050	12722	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL				12722		
514	00056	12722	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT				12722		
514	00060	12722	SF	FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT				12722		
514	00066	12722	SF	FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT				12722		
514	00504	20	MNHR	GRINDING FINs, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL				20		
514	10000	11	EACH	FINAL INSPECTION REPAIR				11		
514	27710	10	EACH	FIELD PAINTING, MISC.: COATING OF BEAM ENDS				10		2
516	13900	20	SF	1" PREFORMED EXPANSION JOINT FILLER		20				
516	25000	262	SF	NYLON REINFORCED NEOPRENE SHEETING		262				
516	44101	10	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (10"x12"x2.043")		10				13
516	44201	15	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (18"x14"x3.023")			15			14
516	47011	LS		JACKING AND TEMPORARY SUPPPORT OF SUPERSTRUCTURE, AS PER PLAN				LS		2
518	21230	LS		POROUS BACKFILL WITH GEOTEXTILE FABRIC		LS				
519	11101	10	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN		10				3
526	25011	190	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15"), AS PER PLAN	190					2
526	90031	68	FT	TYPE C INSTALLATION, AS PER PLAN	68					3
607	39901	370	FT	VANDAL PROTECTION FENCE, 6' STRAIGHT, COATED FABRIC, AS PER PLAN					370	3
625	33000	1	EACH	STRUCTURE GROUNDING SYSTEM				1		2

STRUCTURAL QUANTITIES
BRIDGE NO. ALL-65-13.250
SR 65 OVER US 30

SFN
0201413
DESIGN AGENCY

DESIGNER
MJS

CHECKER
NER

REVIEWER
RTH 06-05-25

PROJECT ID
112133

SUBSET
4

TOTAL
17

SHEET
P.25

TOTAL
38