

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.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

PRIOR TO THE SURFACE CLEANING SPECIFIED IN C&MS 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE: HIGH-PRESSURE WATER BLASTING WITH, OR WITHOUT, ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT OR VACUUM ABRASIVE BLASTING.

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 2.44 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 514 FIELD PAINTING, MISC.: COATING OF BEAM ENDS AND FASCIA

PRIOR TO ENCASING THE BEAM ENDS AND POURING THE CONCRETE FASCIA OVERHANG, PREPARE THE ENDS AND FASCIA PER SSPC SP10 OR SSPC SP11 TO BARE METAL ACHIEVING A 1.5 TO 3.5 MIL PROFILE. PAINT THE BEAM ENDS AND AT THE FASCIA, THE EDGE AND UNDERSIDE OF THE FLANGE AND ENCASED PORTION OF THE WEB WITH ORGANIC ZINC PRIME COAT PER C&MS 514. PROVIDE THE PRIME COAT THICKNESS AS PER C&MS 514.20. THE

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

GENERAL NOTES

BRIDGE NO. HEN-109-18.760
 S.R. 109 OVER NORTH TURKEYFOOT CREEK

SFN
 3503151

DESIGN AGENCY



DESIGNER	CHECKER
JSH	DTC

REVIEWER

GCB 11/08/24

PROJECT ID

110038

SUBSET	TOTAL
3	16


SHEET	TOTAL
P.61	74

HEN-108/109-17.67/0.00

MODEL: Sheet_SurvFt_PAPER: 17x11 (in.) DATE: 2/19/2025 TIME: 3:24:44 PM USER: dave.charville
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ESTIMATED QUANTITIES (03/STR/13)										
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GEN.	SEE SHEET	
202	11203	LS	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN					2 / 16	
202	22900	134	SY	APPROACH SLAB REMOVED				134		
202	23500	921	SY	WEARING COURSE REMOVED				921		
203	10000	104	CY	EXCAVATION				104		
503	21101	128	CY	UNCLASSIFIED EXCAVATION, AS PER PLAN	128				2 / 16	
509	10000	66205	LB	EPOXY COATED STEEL REINFORCEMENT	2912		63293			
509	20001	200	LB	CONCRETE REINFORCEMENT, REPLACEMENT OF EXISTING CONCRETE REINFORCEMENT, AS PER PLAN			200		2 / 16	
510	10000	282	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	258	24				
511	33501	2	EACH	SEMI-INTEGRAL DIAPHRAGM GUIDE, AS PER PLAN	2				7 / 16	
511	34413	262	CY	CLASS QC2 CONCRETE WITH QC/QA, SUPERSTRUCTURE, AS PER PLAN			262		2 / 16	
511	45710	22	CY	CLASS QC1 CONCRETE, ABUTMENT	22					
512	10050	170	SY	SEALING OF CONCRETE SURFACES (NON-EPOXY)	32		138			
512	33000	15	SY	TYPE 2 WATERPROOFING	15					
513	20000	3060	EACH	WELDED STUD SHEAR CONNECTORS			3060			
514	00050	8250	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			8250			
514	00056	8250	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			8250			
514	00060	8070	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			8070			
514	00066	8070	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			8070			
514	00504	20	MNHR	GRINDING FINIS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			20			
514	10000	5	EACH	FINAL INSPECTION REPAIR			5			
514	27700	530	SF	FIELD PAINTING, MISC.: COATING OF BEAM ENDS AND FASCIA			530		3 / 16	
516	10010	98	FT	ARMORLESS PREFORMED JOINT SEAL				98		
516	13900	33	SF	2" PREFORMED EXPANSION JOINT FILLER	33					
516	14020	134	FT	SEMI-INTEGRAL ABUTMENT EXPANSION JOINT SEAL	134					
516	44101	12	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (14" X 12" X 2.583" WITH 15" X 13" X 1.5" LOAD PLATE)	12				8 / 16	
516	44101	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (18" X 14" X 5.052" WITH 25.5" X 17" X 3" LOAD PLATE)		6			9 / 16	
516	44101	6	EACH	ELASTOMERIC BEARING WITH INTERNAL LAMINATES AND LOAD PLATE (NEOPRENE), AS PER PLAN (14" X 12" X 2.583" WITH 19" X 15" X 2" LOAD PLATE)		6			9 / 16	
516	47001	LS	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN					2 / 16	
517	70100	336	FT	RAILING (THREE STEEL TUBE BRIDGE RAILING)			336			
518	21200	54	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	54					
518	22300	397	FT	SPECIAL - STEEL DRIP STRIP	397					
518	40000	140	FT	6" PERFORATED CORRUGATED PLASTIC PIPE	140					
518	40010	32	FT	6" NON-PERFORATED CORRUGATED PLASTIC PIPE, INCLUDING SPECIALS	32					
519	11101	100	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	50	50			3 / 16	
526	25010	245	SY	REINFORCED CONCRETE APPROACH SLABS WITH QC/QA (T=15")				245		
526	90030	98	FT	TYPE C INSTALLATION				98		
601	32110	530	CY	ROCK CHANNEL PROTECTION, TYPE B WITH AGGREGATE FILTER				530		

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 REVIEWER: GCB 11/08/24
 PROJECT ID: 110038
 SUBSET: 4 TOTAL: 16
 SHEET: P.62 TOTAL: 74