
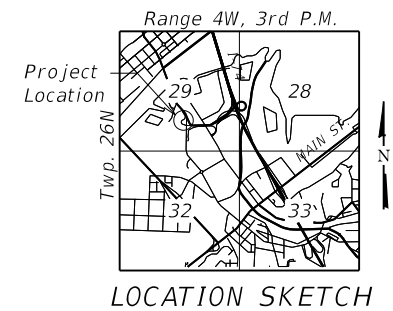
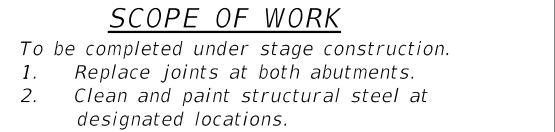
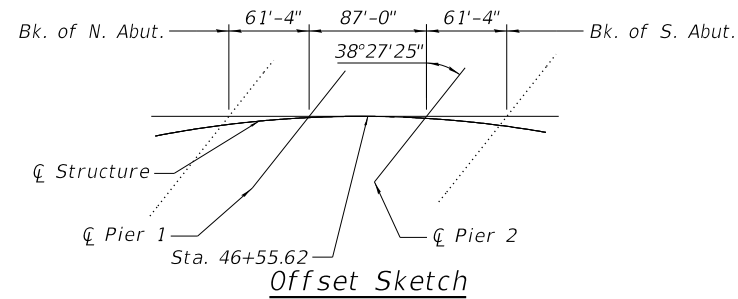


MODEL: Summary of Quantities  
FILE NAME: P:\09\006\22\DOT D4 MOT Plans\10 CAD\CADD Sheets\468D59\_4hd03\_MOT\_SummaryOfQuantities.dgn

CODE No.	ITEM	UNIT	CONSTRUCTION TYPE CODE				
			TOTAL QUANTITY	URBAN BRIDGE	URBAN BRIDGE	URBAN BRIDGE	URBAN ROADWAY
				SN-090-0044	SN 090-0046	SN 090-0120	
				0013	0013	0013	0006
20800150	TRENCH BACKFILL	CU YD	1				1
44000100	PAVEMENT REMOVAL	SQ YD	56				56
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	246				246
50102400	CONCRETE REMOVAL	CU YD	135.2	45.3	60.1	29.8	
50300225	CONCRETE STRUCTURES	CU YD	70.2		70.2		
50300255	CONCRETE SUPERSTRUCTURES	CU YD	29.8			29.8	
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	8080	4420	3660		
50606701	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 1	L SUM	1	1			
50606702	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 2	L SUM	1		1		
50606703	CLEANING AND PAINTING STRUCTURAL STEEL, LOCATION 3	L SUM	1			1	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	15290		10590	4700	
50800515	BAR SPLICERS	EACH	24			24	
<del>50900105</del>	<del>ALUMINUM RAILING, TYPE L</del>	<del>FOOT</del>	<del>9</del>			<del>9</del>	<del></del> 
52000110	PREFORMED JOINT STRIP SEAL	FOOT	233			233	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	10		10		
52100510	ANCHOR BOLTS, 3/4"	EACH	80		80		
52100520	ANCHOR BOLTS, 1"	EACH	54	54			
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	7				7
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	1				1
60255500	MANHOLES TO BE ADJUSTED	EACH	1				1
60260100	INLETS TO BE ADJUSTED	EACH	2				2
63302400	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	1			1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	4	2	2	
67100100	MOBILIZATION	L SUM	1	0.34	0.33	0.33	

MODEL: Summary of Quantities FILE NAME: P:\09\006\22\DOT D4 MOT Plans\10 CAD\CADD Sheets\468D59_4hd03_MOT_SummaryOfQuantities.dgn	USER NAME = bcd		DESIGNED - BCD	REVISED - 11/21/2018	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - GDC	REVISED -						404	(50B-4)BR;12[(HVB,HB)BR]BR	TAZEWELL	61	3
	PLOT SCALE = 1:1		CHECKED - LDC	REVISED -						CONTRACT NO.68D59				
	PLOT DATE = 11/21/2018		DATE - 10/8/2018	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

**Existing Structure:** SN 090-0120 originally built in 1993 as F.A.U. 6702 Section (50B-4, 50-4) as a three span steel I-beam bridge having spans of 61'-4", 87'-0", an 61'-4" with a back to back abutment length of 209'-8", measured along the tangent to the horizontal curved roadway. The bridge is skewed 38°-27'-25", left advance. The out-to-out width varies from 121'-7 $\frac{1}{4}$ " at the north abutment to 116'-5" at the south abutment. There is a 1'-0" wide parapet with aluminum railing and a 5'-0" sidewalk on the west side of the bridge. There is a 1'-7" wide parapet on the east side of the bridge. The bridge is supported by reinforced concrete pile supported abutments and solid wall piers.



SIGNED: Benjamin Bree  
DATE: 01/08/2019  
ILLINOIS STRUCTURAL ENGINEER  
NO. 081-007230  
LICENSE EXPIRES: 11-30-2020

## DESIGN STRESSES

Existing Structure

$f'_c = 3,500 \text{ psi}$   
 $f_y = 60,000 \text{ psi (Reinforcement)}$   
 $f_y = 36,000 \text{ psi (M183 Grade 36)}$

New Construction

$f'_c = 4,000 \text{ psi (Superstructure)}$   
 $f_y = 60,000 \text{ psi (Reinforcement)}$   
 $f_y = 36,000 \text{ psi (M270 Grade 36)}$

DESIGN SPECIFICATIONS  
2002 AASHTO Standard Specifications for  
Highway Bridges  
1983 AASHTO Guide Specifications for  
Seismic Design of Highway Bridges

LOADING HS20-44  
Allow 25#/sq. ft. for future wearing surface.

SEISMIC DATA  
Seismic Performance Category (SPC) = A

GENERAL PLAN & ELEVATION  
WASHINGTON STREET OVER FARM CREEK  
F.A.U. 6707 - SEC. (50B-4)BR; 12[(HVB,HB)BR]BR  
TAZEWELL COUNTY  
STATION 46+55.62  
STRUCTURE NO. 090-0120



