

The Thrasher Group
Designer:
Checker:

RLC
JWA

Alexander Street
Bridge Number: JEF-00TOR-00020
SFN: 4163427

202-22900, APPROACH SLAB REMOVED, SY

Width = 24 ft
Length = 25 ft
No of Approaches = 2

Total = 134 SY *See Existing Plans

509-10000, EPOXY COATED REINFORCING STEEL, LB

Reat Abutment = 2564 lb
Forward Abutment = 2519 lb

Total = 5083 LB

509-20001, REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN, LB

50 lb

Total = 50 LB

510-10000, DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT, EACH

Abutment 1 Horizontal = 20 ea
Abutment 2 Horizontal = 20 ea
Abutment 1 Vertical = 88 ea
Abutment 2 Vertical = 86 ea

Total = 214 EA

511-45710, CLASS QC1 CONCRETE, ABUTMENT, CY

Abutment Depth = 1.75 ft
Abutment Width = 41.17 ft
Abutment Height = 4.50 ft
No of Abutments = 2

Total = 25 CY

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512-10100, SEALING OF CONCRETE SURFACES (EPOXY-URETHANE), SY

Slab Edge Depth =	7.875	ft	*See BDM Figure 309-2
Overhang Width =	0.5	ft	
Slab Length =	182.00	ft	
No. of Sides =	2		
Subtotal =	3048.50	sf	

End Post Area Front =	6.10	sf	
No. of Sides =	8		
End Post Top =	7.17	ft	
End Post Width =	1.00	ft	
No. of Sides =	8		

Subtotal =	106.13	sf	
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Abutment Front Face =	361.25	sf	
Front Face of Left Wing =	43	sf	
Backside of Left WW =	5.25	sf	
Top of Left WW =	21	sf	
Front Face of Right Wing =	38.6	sf	
Backside of Right WW =	5.13	sf	
Top of Right WW =	21	sf	
Number of Abutments =	2		
Subtotal =	990.46	sf	

Pier Front Face Area =	546.5	sf	
Total Number of Faces =	4		
Pier Side Length =	31	ft	
Pier Side Width =	3	ft	
Total Number of Faces =	4		
Subtotal =	2558	sf	

Total =	745	SY	*See BDM 303.1
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512-10300, SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN, SY

Deck Width =	38	ft	
Deck Length =	184.25	ft	

Total =	778	SY	
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512-33000, TYPE 2 WATERPROOFING, SY

Abutment Length =	44.17	ft	
Abutment Vertical =	6.00	ft	
Number of Vertical =	3		
Number of Abutments =	2		
Waterproof Width =	3.00	ft	

Total =	34	SY	
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512-74000, REMOVAL OF EXISTING COATING FROM CONCRETE SURFACES, SY

Same of Proposed Sealing = 665 SY

513-10240, STRUCTURAL STEEL MEMBERS, LEVEL 2, LB

W36x182 Weight = 182 lb/ft
Replacement Length = 10 ft
Beam No. = 1
Total Weight = 1820 lb

W36x170 Weight = 170 lb/ft
Replacement Length = 10 ft
Beam No. = 2
Total Weight = 3400 lb

Horizontal Length = 9.5 ft
Weight = 8.2 lb/ft
No = 6
Total = 468 lb

Diagonal Length = 3.5 ft
Weight = 8.2 lb/ft
No = 4
Total = 115 lb

Intermediate Horizontal Length = 9.5 ft
Weight = 6.1 lb/ft
No = 4
Total = 232 lb

Intermediate Diagonal Length = 10 ft
Weight = 6.1 lb/ft
No = 8
Total = 488 lb

Total = 6523 lb

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514-00050, SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL, SF

Perimeter 1	8.95	ft
Length =	54.00	ft
Perimeter 2	9.29	ft
Length =	19.50	ft
Perimeter 3	8.98	ft
Length =	42.00	ft
Perimeter 4	9.25	ft
Length =	18.42	ft
Perimeter 5	8.92	ft
Length =	47.08	ft
Number of Beams =	5.00	
Subtotal =	8162.25	sf
Perimeter of Angle =	1.00	ft
Total Angle Length =	29.50	ft
Number of X-Frames =	60.00	
Subtotal =	1770.00	sf
Total =	9933.00	SF

514-00056, FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT, SF

Total = 9933.00 SF

514-00060, FIELD PAINTING OF STRUCTURAL STEEL, INTERMEDIATE COAT, SF

Total = 9933.00 SF

514-00066, FIELD PAINTING OF STRUCTURAL STEEL, FINISH COAT, SF

Total = 9933.00 SF

514-00504, GRINDING FINS, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL, MNHR

Beam Ends	60	MNHR
Frames	27	MNHR
Total =	87	MNHR

514-10000, FINAL INSPECTION REPAIR, EACH

Cross Frame Bay	4	EACH
End Cross Frame Bays	5	EACH
Beam Ends	10	EACH
Total =	19	EACH

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516-11211, STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN, FT

Approach Width =	40	ft
No. of Appr =	2	
Total =	80	FT

516-45305, REFURBISH BEARING DEVICE, AS PER PLAN, EACH

No. of Bearings =	10	EACH
Total =	10	EACH

518-21200, POROUS BACKFILL WITH GEOTEXTILE FABRIC, CY

Backfill Height =	4.25	ft
Backfill Thickness =	2	ft
Backfill Length =	41.17	ft
No. of Abutments =	2	
Total =	26	CY

519-11101, PATCHING CONCRETE STRUCTURE, AS PER PLAN, SF

Rear Abutment =	52.5	sf
Forward Abutment =	86	sf
Total =	138.5	SF

519-12300, PATCHING CONCRETE BRIDGE DECK - TYPE B, SY

Location 5	2.00	sf
Location 8	4.00	sf
Location 10	0.50	sf
Location 12	1.50	sf
Location 15	2.25	sf
Location 16	2.00	sf
Location 18	3.75	sf
Location 19	1.00	sf
Location 21	1.50	sf
Parapet	2.10	sf
Total =	3.00	SY

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526-25001, REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN, SY

Approach Width =	37.75	ft
Approach Length =	25	ft
No. of Appr =	2	
Total =	210	SY

526-90010, TYPE A INSTALLATION, FT

Width of Approach =	37.875	ft
No. of Approaches =	2	
Total =	76	FT

844-10000, CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION, SF

Location 1	10.00	sf
Location 2	12.00	sf
Location 3	21.00	sf
Location 4	8.00	sf
Location 6	8.00	sf
Location 7	9.00	sf
Location 9	10.00	sf
Location 11	192.00	sf
Location 13	40.00	sf
Location 14	7.50	sf
Location 17	12.00	sf
Location 20	11.00	sf
Total =	340.50	SF

846-00110, POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM, CF

Thickness =	0.25	ft
Width =	1.67	ft
Width of Approach =	37.88	ft
No. of Approaches =	2	
Total =	32.00	CF

ESTIMATE OF QUANTITIES									
ITEM	EXTENSION	TOTAL	UNIT	DESCRIPTION	ABUTMENTS	PIERS	SUPERSTRUCTURE	GENERAL	SHEET REFERENCE
202	11203	1	LS	PORTIONS OF STRUCTURE REMOVED, OVER 20 FOOT SPAN, AS PER PLAN	1				2/21
202	22900	134	SY	APPROACH SLAB REMOVED	134				
503	11100	1	LS	COFFERDAMS AND EXCAVATION BRACING	1				
503	21100	57	CY	UNCLASSIFIED EXCAVATION	57				
509	10000	5083	LB	EPOXY COATED REINFORCING STEEL	5083				
509	20001	50	LB	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL, AS PER PLAN	50				2/21
510	10000	214	EACH	DOWEL HOLES WITH NONSHRINK, NONMETALLIC GROUT	214				
511	45710	25	CY	CLASS QC1 CONCRETE, ABUTMENT	25				
512	10100	745	SY	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	110	284	351		
512	10300	778	SY	SEALING CONCRETE BRIDGE DECKS WITH HMWM RESIN			778		
512	33000	34	SY	TYPE 2 WATERPROOFING	34				
512	74000	665	SY	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	30	284	351		
513	10200	6523	LB	STRUCTURAL STEEL MEMBERS, LEVEL UF			6523		
514	00050	9933	SF	SURFACE PREPARATION OF EXISTING STRUCTURAL STEEL			9933		
514	00056	9933	SF	FIELD PAINTING OF EXISTING STRUCTURAL STEEL, PRIME COAT			9933		
514	00060	9933	SF	FIELD PAINTING STRUCTURAL STEEL, INTERMEDIATE COAT			9933		
514	00066	9933	SF	FIELD PAINTING STRUCTURAL STEEL, FINISH COAT			9933		
514	00504	87	MNHR	GRINDNG FINs, TEARS, SLIVERS ON EXISTING STRUCTURAL STEEL			87		
514	10000	19	EACH	FINAL INSPECTION REPAIR			19		
516	11211	80	FT	STRUCTURAL EXPANSION JOINT INCLUDING ELASTOMERIC STRIP SEAL, AS PER PLAN	80				2/21
516	45305	10	EACH	REFURBISH BEARING DEVICE, AS PER PLAN	10				2/21
516	47001	1	LS	JACKING AND TEMPORARY SUPPORT OF SUPERSTRUCTURE, AS PER PLAN			1		2/21
518	21200	26	CY	POROUS BACKFILL WITH GEOTEXTILE FABRIC	26				
519	11101	139	SF	PATCHING CONCRETE STRUCTURE, AS PER PLAN	139				2/21
519	12300	3	SY	PATCHING CONCRETE BRIDGE DECK - TYPE B			3		
526	25001	210	SY	REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN	210				19/21
526	90010	76	FT	TYPE A INSTALLATION	76				
844	10000	341	SF	CONCRETE PATCHING WITH GALVANIC ANODE PROTECTION			341		
846	00110	32	CF	POLYMER MODIFIED ASPHALT EXPANSION JOINT SYSTEM	32				