

Russell Township

C0340-21004 - EMB - Bridge R017 Superstructure Replacement

Item No.	Spec.	Description	Unit	Est. Quant.
1	SP-01, OPSS 491	Sitework including Mobilization and Demobilization	LS	1
2	SP-02, OPSS 706	Traffic Control including Detour Route Signing	LS	1
3	SP-03, OPSS 182, 518, 805	Environmental Protection / Erosion and Sediment Control	LS	1
4	OPSS 491	Protection of Existing Utilities / Services	LS	1
5	SP-04, OPSS 928	Access to Work Area, Work Platform and Scaffolding including Access for Engineer's Inspection (where not otherwise specified)	LS	1
6	OPSS 510	Remove Asphalt Full Depth on Approaches (100mm depth) including full depth Sawcutting	m2	490
7	OPSS 510	Remove Steel Beam Guiderail on Approaches	m	62
8	OPSS 206, 510	Earth Excavation including all Removals	LS	1
9	OPSS 314, 501	Granular 'A' including Compaction (throughout Contract, including fine grading for roadway reinstatement)	tonne	250
10	OPSS 314, 501	Granular 'B' including Compaction (throughout Contract)	tonne	180
11	OPSS 310	HL-3 (PG 58-34) Hot Mix Asphalt on Bridge Deck and Approaches	tonne	200
12	OPSS 310	Tack Coat	m2	965
13	OPSS 353, 904	Concrete Curb and Gutter, OPSD 600.040	m	42
14	OPSS 353, 904	90 Degree Gutter Outlet (OPSD 604.010) including 5m2 R-10 Rip-Rap over Geotextile (each outlet)	each	4
15	OPSS 721	Steel Beam Guiderail with Channel, OPSD 912.130	m	46
16	OPSS 732	Sequential Kinking Terminal System, OPSD 922.181 (total length 15.24m)	each	3
17	OPSS 721	Steel Beam Guiderail Entrance Treatment (D = 90 degrees, Radius = 2.44m)	each	1
18	OPSS 721	Steel Beam Guiderail Structure Transition, OPSD 912.430	each	4
19	OPSS 341	Sawcut and Seal Asphalt with Hot Rubberized Asphalt	m	64
20	OPSS 512	Supply and Install Gabion Baskets c/w R-3 Stone	m3	12
21	OPSS 710	Pavement Markings (single solid 10cm yellow centerline & single solid 10cm white edge lines), Limits of Asphalt Removals / Reinstatement)	LS	1
22	OPSS 802, 804	Site Restoration (hydraulic seed and mulch)	LS	1
23	OPSS 510, 928	Remove Existing Concrete Parapet Walls and Steel Railings	LS	1
24	OPSS 510, 928	Remove Concrete Curb and Deck Overhang over Bridge Deck	LS	1
25	OPSS 510, 928	Remove Concrete Curb over Wingwalls and Upper Section of Wingwalls	LS	1
26	OPSS 510, 928	Remove Concrete Superstructure including Voided Slabs	LS	1
27	OPSS 510, 928	Remove Ballast Walls and Upper Section of Abutment Walls	LS	1
28	OPSS 909	Supply and Install New B-700 Prestressed Concrete Box Girders, including Hooked Dowels to Distribution Slab, Dowels into Semi-Integral Deck End, and Dowels into Overhang	LS	1
29	OPSS 922	Supply and Install New Laminated Elastomeric Bearings	Each	16
30	OPSS 1202	Supply and Install New Neoprene Bearing Strip on Top of Abutment Walls including Positive Attachment	LS	1
31	OPSS 904	Concrete in Distribution Slab including Deck Overhangs	m3	25
32	OPSS 904	Concrete in Semi-Integral Deck Ends	m3	20
32	OPSS 904	Concrete in Reconstructed Upper Section of Abutment Walls	LS	1
33	OPSS 904	Concrete in Reconstructed Upper Section of Wingwalls	LS	1

34	OPSS 930	Partial Depth Concrete Removals and Repairs on Abutment Walls including Access	m2	10
35	OPSS 930	Partial Depth Concrete Removals and Repairs on Wingwalls including Access	m2	5
36	OPSS 904	Concrete in Approach Slabs including 5mm Neoprene Pad and Fiberboard	m3	30
37		Supply and Install New Wabo Inverseal IV Compression Seal (between concrete semi-integral end and wingwall)	LS	1
37	OPSS 905	Galvanized Reinforcing Steel	tonne	10
38	OPSS 905	Reinforcing Steel	tonne	4
39	OPSS 904	Dowels into Concrete	each	600
40	OPSS 904	Concrete in New Parapet Walls over Bridge Deck and over Wingwalls	m3	15
41	OPSS 908	Single Steel Railing for Concrete Parapet Wall	m	48
42	OPSS 721	Steel Beam Guiderail Barrier Embedded Anchorage in parapet, OPSD 3419.100 (2 embedded plate anchors per location)	each	4
43	OPSS 914	Hot Rubberized Asphalt, Waterproofing, and Protection Board on Bridge Deck and Approach Slabs including Abrasive Blast Cleaning	m2	250
44	OPSS 511	300mm Thick Rip-Rap (150 nominal size) over geotextile on embankments	m2	100.0
45	OPSS 928	Supply and Install Sub-Drains Below Semi-Integral Deck End including Clear Stone, Geotextile, EVA Foam, Wingwall Coring, Sub-Drain Outlets, Rodent Traps, and Rip-Rap over Geotextile	LS	1