BRIDGE REPAIR QUANTITIES

	ITEM	DESCRIPTION	UNIT	26.28	26.58	26.74	26.90	27.25	TOTAL
1	202-01.02	REMOVAL OF ASBESTOS	LS	0.2	0.2	0.2	0.2	0.2	1
22 2	209-08.02	TEMPORARY SILT FENCE (WITH BACKING)	L.F.	400	400	400	400	400	2000
26 22	307-01.08	ASPHALT CONCRETE MIX (PG64-22) (BPMB-HM) GRADING B-M2	TON	-	-	40	-	30	70
26	403-01	BITUMINOUS MATERIAL FOR TACK COAT (TC)	TON	-	-	0.5	-	0.5	1
3	604-10.09	CONCRETE	C.Y.	-	-	77	-	68	145
4	604-10.13	CONCRETE SLAB REMOVAL	LS	-	-	0.5	-	0.5	1
22 5	604-10.14	REMOVE EXISTING WEARING SURFACE	LS	-	-	0.5	-	0.5	1
6	604-10.18	REINFORCING STEEL (REPAIRS)	LB.	-	-	22,500	-	18,250	40,750
23 22 7	604-10.26	BRACING	EACH	-	-	14	-	2	16
22 8	604-10.30	BRIDGE DECK REPAIRS (FULL DEPTH OF SLAB)	S.Y.	36.5	70.5	68	166	11	352
22 9	604-10.42	CONCRETE REPAIRS	C.F.	49	69	40	197	20	375
22 10	604-10.44	EXPANSION JOINT REPAIRS	L.F.	60	79	226	190	107	662
11	604-10.90	MISCELLANEOUS BRIDGE ITEMS (TIMBER SUPPORTS)	LS	-	-	-	1	-	1
12	604-10.91	MISCELLANEOUS BRIDGE ITEMS (SADDLE REPAIR)	LS	-	-	0.33	-	0.33	1
13	615-02.03	PRESTRESSED CONCRETE BOX BEAM (21" X 36")	L.F.	-	-	57	-	114	171
14	620-06	CONCRETE RAILING	L.F.	-	-	142.5	26	142.5	311
25 15	705-04.50	PORTABLE BARRIER RAIL DELINEATOR	EACH	-	-	-	-	-	84
25 16	705-08.51	PORTABLE IMPACT ATTENUATOR NCHRP350 TL-3	EACH	-	-	-	-	-	2
23 22 17	706-10.73	REMOVAL OF GUARDRAIL & POST FOR REUSE	L.F.	40	40	80	40	40	240
18	712-01	TRAFFIC CONTROL	LS	0.14	0.14	0.28	0.30	0.14	1
25 24	712-02.02	INTERCONNECTED PORTABLE BARRIER RAIL	L.F.	-	-	-	-	-	991
25 24	712-04.01	FLEXIBLE DRUMS (CHANNELIZING)	EACH	-	-	-	-	-	20
25 24 19	712-06	SIGNS (CONSTRUCTION)	S.F.	-	-	-	-	-	341
25	712-07.03	TEMPORARY BARRICADES (TYPE III)	L.F.	-	-	-	-	-	32
25	712-09.01	REMOVABLE PAVEMENT MARKING LINE	L.F.	4000	4000	9720	4000	4800	30,520
25	712-09.04	REMOVABLE PAVEMENT MARKING (STOP LINE)	L.F.	24	24	24	24	24	168
	716-13.02	SPRAY THERMO PVMT MRKNG (60 MIL) (6IN LINE)	L.M.	0.05	0.05	0.05	0.05	0.05	0.25
	717-01	MOBILIZATION	LS	0.2	0.2	0.2	0.2	0.2	1
24 20	730-40	TEMPORARY TRAFFIC SIGNAL SYSTEM	EACH	1	1	1	1	1	1
21	801-03	WATER (SEEDING & SODDING)	M.G.	900	900	900	900	900	4500
21	803-01	SODDING (NEW SOD)	S.Y.	9	9	9	9	9	45

1. INCLUDES ALL COSTS TO REMOVE ASBESTOS CONTAINING MATERIALS/ PROVIDE PROTECTION IF ENCOUNTERED AT BRIDGE NOS. 79-SR14-26.28, 26.58, 26.74, 26.90, AND 27.25 AS DIRECTED BY THE ENGINEER FROM TDOT AND IN ACCORDANCE WITH SPECIAL PROVISION SP202ACM. FOR ADDITIONAL NOTES, SEE DWG. NO. BR-118-192 AND SHEET NO. 4.

2. INCLUDES THE COST OF ALL LABOR AND MATERIALS FOR FURNISHING AND INSTALLING THE TEMPORARY SILT FENCE WHERE LOCATED BY THE ENGINEER, AND REMOVAL UPON PROJECT COMPLETION. SEE STD. DWGS. EC-STR-3C AND EC-STR-3E FOR NOTES AND DETAILS. SEE SUBSECTION 209.07 OF THE SPECIFICATIONS FOR INSTALLATION AND MAINTENANCE INSTRUCTIONS.

3. INCLUDES THE COST OF ALL LABOR AND MATERIALS FOR FORMING AND PLACING HIGH EARLY STRENGTH CONCRETE IN THE NEW SLAB, CANTILEVERS, CURBS, AND DIAPHRAGMS AT SPAN NOS. 1, 8, AND 9 OF BRIDGE NO. 79-SR14-26.74 AND SPAN NOS. 1 & 4-7 OF BRIDGE NO. 79-SR14-27.25. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-118-195, BR-118-196, BR-118-199 THRU BR-118-201, BR-118-209 AND BR-118-210.

4. INCLUDES THE COST OF ALL LABOR AND MATERIALS FOR REMOVING EXISTING CONCRETE CURB, SLAB, BEAMS, PORTIONS OF BEAMS, BRIDGERAIL, AND DIAPHRAGMS AT SPAN NOS. 1, 8, AND 9 OF BRIDGE NO. 79-SR14-26.74 AND SPAN NOS. 1 & 4-7 OF BRIDGE NO. 79-SR14-27.25. FOR LOCATIONS, SEE DWG. NOS. BR-118-186 THRU BR-118-190. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-118-195, BR-118-196, BR-118-199 THRU BR-118-201, BR-118-209 AND BR-118-210.

5. INCLUDES ALL COSTS FOR REMOVING EXISTING ASPHALT SURFACE AT REPAIR LOCATIONS AT BRIDGE NOS. 79-SR14-26.74 AND 27.25. FOR NOTES, DETAILS, LOCATIONS AND APPROXIMATE DEPTHS, SEE DWG. NOS. BR-118-195, BR-118196, BR-118-199 THRU BR-118-201, BR-118-209 AND BR-118-210.

6. INCLUDES THE COST OF ALL REINFORCING STEEL REQUIRED TO COMPLETE REPAIRS AS SHOWN ON THESE PLANS WITH THE EXCEPTION OF THE REINFORCING STEEL REQUIRED FOR THE CONCRETE BRIDGERAIL AND PRESTRESSED BEAMS.

7. INCLUDES THE COST OF ALL LABOR, MATERIALS, INCIDENTALS, AND DESIGN OF TEMPORARY BEAM SUPPORTS FOR PHASED SLAB/DIAPHRAGM REPLACEMENTS AT DESIGNATED LOCATIONS AT BRIDGE NOS. 79-SR14-26.74 AND 79-SR14-27.25. FOR LOCATIONS, SEE DWG. NOS. BR-118-186 & BR-118-190. FOR ADDITIONAL NOTES AND DETAILS, SEE DWG. NO. BR-118-213.

8. INCLUDES ALL COSTS TO PERFORM FULL DEPTH REPAIRS AT BRIDGE NOS. 79-SR14-26.28, 26.58, 26.74, 26.90 AND 27.25. FOR LOCATIONS, SEE DWG. NOS. BR-118-184 THRU BR-118-190. FOR DETAILS, SEE DWG. NO. BR-118-217. THIS ITEM WILL ALSO INCLUDE THE COST OF ASPHALT REMOVAL, NEW B-M2 ASPHALT OVERLAY, AND TACK COAT AT ALL REPAIR AREAS.

9. INCLUDES THE COST OF ALL LABOR, EQUIPMENT, AND MATERIALS FOR FORMING AND PLACING HIGH EARLY STRENGTH CONCRETE IN THE NEW DIAPHRAGMS AT BRIDGE NOS. 79-SR14-26.28, 26.58, 26.74, 26.90 AND 27.25. FOR NOTES AND DETAILS, SEE DWG. NOS. BR-118-184 THRU BR-118-190. THIS ITEM WILL ALSO INCLUDE DIAPHRAGM CONCRETE REMOVAL AND CLEANING AND PRESERVATION OF EXISTING REINFORCING STEEL AT DIAPHRAGM REPAIR LOCATIONS.

10. INCLUDES COST TO CLEAN ENTIRE DEPTH OF JOINTS AT REPAIR LOCATIONS WITH A HIGH PRESSURE WATER WASH CAPABLE OF REMOVING ALL INCOMPRESSIBLE AND FOREIGN MATERIAL, LABOR AND MATERIALS FOR SEALING THE JOINTS AT REPAIR LOCATIONS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-118-217.

11. INCLUDES THE COST OF ALL MATERIAL, LABOR, AND EQUIPMENT TO BUILD AND INSTALL PLYWOOD AND TIMBER SUPPORTS AT SPAN NOS. 10-12 AT BRIDGE NO. 79-SR14-26.90. FOR LOCATIONS, SEE DWG. NOS. BR-118-188 AND BR-118-189. FOR ADDITIONAL NOTES AND DETAILS, SEE DWG. NO. BR-118-207.

12. INCLUDES THE COST OF ALL LABOR, MATERIAL, AND EQUIPMENT TO MODIFY AND SALVAGE EXISTING STEEL SADDLES AND BRIDGE NOS. 79-SR14-26.74 AND 27.25. FOR ADDITIONAL NOTES AND DETAILS, SEE DWG. NO. BR-118-215.

13. INCLUDES COST OF FORMING, FABRICATING AND INSTALLING SIX (6) NEW 21"X36" PRESTRESSED CONCRETE BOX BEAMS AT BRIDGE NOS. 79-SR14-26.74 AND 27.25, INCLUDING REINFORCING STEEL, STRANDS, PLAIN ELASTOMERIC BEARING PADS, DOWEL BARS AND LIFTING STRANDS. FOR NOTES AND DETAILS, SEE DWG. NO. BR-118-214.

14. INCLUDES COST OF ALL LABOR AND MATERIALS FOR CONSTRUCTING NEW STANDARD CONCRETE HANDRAIL AT DESIGNATED LOCATIONS AT BRIDGE NOS. 79-SR14-26.74, 26.90 AND 27.25. FOR DETAILS AND NOTES, SEE REF. DWG. E-2-87 AND DWG. NOS. BR-118-218 AND BR-118-218A.

15. INCLUDES ALL COSTS FOR FURNISHING AND INSTALLING PORTABLE DELINEATORS MOUNTED ON THE PORTABLE BARRIER RAIL. FOR NOTES AND DETAILS, SEE STD. DWG. NO. T-WZ-14. FOR LOCATIONS, SEE TRAFFIC CONTROL SHEET NOS. 5-12.

16. THIS ITEM SHALL BE A PORTABLE ENERGY ABSORBING TERMINAL MEETING THE REQUIREMENTS OF NCHRP 350 FOR TEST LEVEL 3. EXAMPLES WOULD BE A QUAD-GUARD, A REACT 350 OR TRACC. THE PAY ITEM WILL INCLUDE FURNISHING AND INSTALLING ALL COMPONENTS AS LISTED ON THE MANUFACTURER'S BILL OF MATERIALS. SHOP DRAWINGS OF THE PORTABLE ENERGY TERMINALS MUST BE SUBMITTED TO AND APPROVED BY THE DIVISION OF STRUCTURES PRIOR TO INSTALLATION. THE CONTRACTOR SHALL BE PAID FOR A MAXIMUM OF TWO (2) ENERGY ABSORBING TERMINALS, NCHRP 350, TL 3 WHICH SHALL BE RELOCATED AS NECESSARY.

17. INCLUDES COST OF GUARDRAIL REMOVAL, STORAGE, AND RE-INSTALLATION ON BRIDGE NOS. 79-SR14-26.28, 26.58, 26.74, 26.90 AND 27.25.

18. THIS ITEM SHALL INCLUDE THE INSPECTION AND MAINTENANCE OF ANY SIGNING AND TRAFFIC CONTROL APPURTENANCES DURING CONSTRUCTION OPERATIONS.

19. INCLUDES ALL COSTS ASSOCIATED WITH THE INSTALLATION AND MAINTENANCE OF SIGN PANELS, SHEETING AND SUPPORTS.

20. THE TEMPORARY TRAFFIC CONTROL SYSTEM SHALL BE BATTERY AND SOLAR POWERED AND MEET ALL TDOT STANDARDS. ONE DOPPLER RADAR AND/OR VIDEO DETECTION WILL BE REQUIRED FOR EACH APPROACH.

21. INCLUDES ALL COSTS OF ALL LABOR AND MATERIALS FOR FURNISHING AND INSTALLING THE LISTED ITEMS WHERE LOCATED BY THE ENGINEER, IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

22. THE ENGINEER MAY INCREASE, DECREASE OR ELIMINATE THE QUANTITY FOR ITEM.

23. THE CONTRACTOR SHALL ONLY BE PAID FOR THE ACTUAL QUANTITY USED DURING CONSTRUCTION.

24. ALL COSTS ASSOCIATED WITH INSTALLING, STORING, AND RE-INSTALLING ALL TRAFFIC CONTROL DEVICES DURING AND BETWEEN THE DIFFERENT TRAFFIC CONTROL PHASES WILL BE INCLUDED IN THE BID PRICE OF EACH ITEM. DURING THE TIME BETWEEN DIFFERENT TRAFFIC CONTROL PHASES, THE CONTRACTOR SHALL STORE ALL TRAFFIC CONTROL DEVICES IN A PROPER LOCATION THAT WILL NOT INTERFERE WITH TRAFFIC FLOW. ALL WORK MUST MEET THE FULL APPROVAL OF THE ENGINEER FROM T.D.O.T.

25. THE CONTRACTOR WILL BE GIVEN A LIMITED TIME PER BRIDGE LOCATION TO COMPLETE THE REPAIRS. PAYMENT WILL ONLY BE MADE FOR ONE SETUP PER BRIDGE. FOR NOTES ON THE EXACT DURATION OF REPAIRS PER BRIDGE AND ADDITIONAL NOTES, SEE SHEET NOS. 5-12.

26. THE QUANTITY FOR THIS ITEM WILL INCLUDE ALL SLAB REMOVAL AREAS THAT ARE NOT PERFORMED UNDER THE BRIDGE DECK REPAIRS (FULL DEPTH OF SLAB) ITEM.

PROJECT NO.	YEAR	SHEET NO.
79224-4205-04	2015	2

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

26.28

26.58

26.74

26.90

27.25

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE REPAIR DETAILS
STATE ROUTE 14
BRIDGE NO. 79-SR14-26.28
BRIDGE NO. 79-SR14-26.58
BRIDGE NO. 79-SR14-26.74
BRIDGE NO. 79-SR14-26.90
BRIDGE NO. 79-SR14-27.25

SHELBY COUNTY
2015

AMJAD S. KHAIRI
REGISTERED ENGINEER
AGRICULTURE
COMMERCE
NO. 106850
STATE OF TENNESSEE
04/27/15

GARVER

DESIGNED BY J. L. HALBROOK DATE APR 2015
DRAWN BY C. J. HALBROOK DATE APR 2015
SUPERVISED BY J. H. RUDDELL DATE APR 2015
CHECKED BY A. J. KHAIRI DATE APR 2015
TN D.O.T. ENGINEERING SUPERVISOR M. LAWSON

BR-118-191

JLHalbrook 4/27/2015 11:28:02 AM
WORKSPACE: TDOT Bridge
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