ESTIMATED BRIDGE QUANTITIES (1)

	ITEM NO.	DESCRIPTION	UNIT	BRIDGE NO. 19-I24-15.42LT	BRIDGE NO. 19-I24-15.42RT	TOTAL QUANTITY
(8)	202-01.02	REMOVAL OF ASBESTOS	LS	0	1	1
(1)	602-10.01	STRUCTURAL STEEL REPAIRS	LS	1	0	1
(2)	602-10.05	BRACING REPAIRS	LS	0.5	0.5	1
(3)	603-02.20	SPOT PAINTING EXISTING STEEL STRUCTURES	SF	50	0	50
(4)	604-04.02	APPLIED TEXTURE FINISH (EXISTING STRUCTURES)	SY	0	100	100
(5)	604-10.60	EXPANSION JOINT REPAIRS (MODULAR TYPE)	LF	0	68	68
(6)	604-10.61	EXPANSION JOINT REPAIRS (MODULAR TYPE)	LF	0	68	68
(7)	617-01	BRIDGE DECK SEALANT	SY	0	320	320

CONST. NO. _____

PROJECT NO.	YEAR	SHEET NO.
19010-4164-04	2014	2

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	05-05-14	DWT	ADDED ITEM NO. 202-01.02 AND FOOTNOTE NO. 8

FOOTNOTES (1)

(1) INCLUDES THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO PERFORM STRUCTURAL STEEL REPAIRS IN ACCORDANCE WITH NOTES AND DETAILS ON BR-116-50.

(2) INCLUDES ALL NECESSARY TEMPORARY SUPPORT OF THE STRUCTURE FOR THE DURATION OF THE PROJECT. ALSO INCLUDES FORMWORK TO STOP DEBRIS FROM FALLING INTO THE CUMBERLAND RIVER. BRACING PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

(3) INCLUDES THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS REQUIRED TO CLEAN AND PAINT ALL EXISTING AND PROPOSED STRUCTURAL STEEL RELATED TO THE REPAIR OF THE TWO EXISTING SPLICES NOTED AND DETAILED ON BR-116-50. PAYMENT SHALL BE FULL COMPENSATION FOR OBTAINING ALL PERMITS AND APPROVALS. ALL SURFACE PREPARATION AND FURNISHING AND APPLYING PAINT IS INCLUDED AND SHALL BE IN ACCORDANCE WITH TDOT SPECIFICATIONS. SEE NOTES ON BR-116-48.

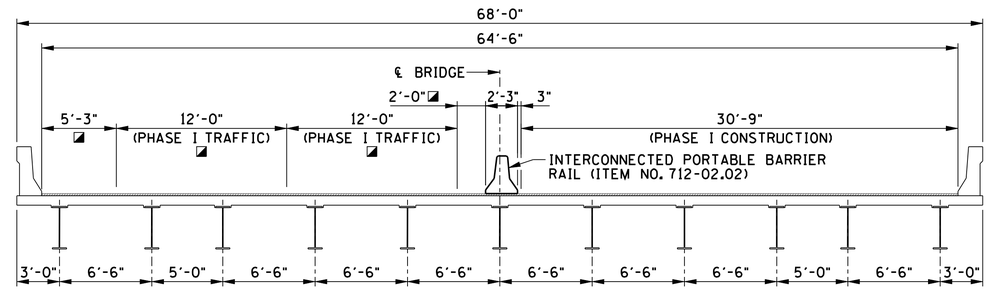
(4) INCLUDES THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO APPLY TEXTURE FINISH TO REPAIR AREAS OF EXISTING STRUCTURE IN ACCORDANCE WITH TDOT SPECIFICATIONS AND THE NOTES AND DETAIL ON THIS SHEET.

(5) INCLUDES THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO REPLACE THE EXISTING MODULAR EXPANSION JOINT AT PIER NO. 25-1 IN PHASES. EXPANSION JOINT SHALL BE REPLACED IN ACCORDANCE WITH NOTES AND DETAILS ON BR-116-49 AND WITH SECTION 623.02 OF THE STANDARD SPECIFICATIONS. THE TOTAL REQUIRED JOINT MOVEMENT IS 6 INCHES. COST SHALL INCLUDE REMOVING EXISTING EXPANSION JOINT AND PORTIONS OF EXISTING CONCRETE, BLAST CLEANING EXISTING REINFORCING STEEL TO REMAIN, NEW REINFORCING STEEL, FORMING NEW HIGH EARLY STRENGTH CONCRETE, NEW SLIDER PLATE ASSEMBLIES, MODULAR JOINT THAT HAS BEEN APPROVED AFTER SHOP DRAWING REVIEW AND ANY MISCELLANEOUS MATERIALS FOR PHASED JOINT CONSTRUCTION.

(6) INCLUDES THE COST OF ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO REPLACE THE EXISTING MODULAR EXPANSION JOINT AT PIER NO. 25-4 IN PHASES. EXPANSION JOINT SHALL BE REPLACED IN ACCORDANCE WITH NOTES AND DETAILS ON BR-116-49 AND WITH SECTION 623.02 OF THE STANDARD SPECIFICATIONS. THE TOTAL REQUIRED JOINT MOVEMENT IS 9 INCHES. COST SHALL INCLUDE REMOVING EXISTING EXPANSION JOINT AND PORTIONS OF EXISTING CONCRETE, BLAST CLEANING EXISTING REINFORCING STEEL TO REMAIN, NEW REINFORCING STEEL, FORMING NEW HIGH EARLY STRENGTH CONCRETE, NEW SLIDER PLATE ASSEMBLIES, MODULAR JOINT THAT HAS BEEN APPROVED AFTER SHOP DRAWING REVIEW AND ANY MISCELLANEOUS MATERIALS FOR PHASED JOINT CONSTRUCTION.

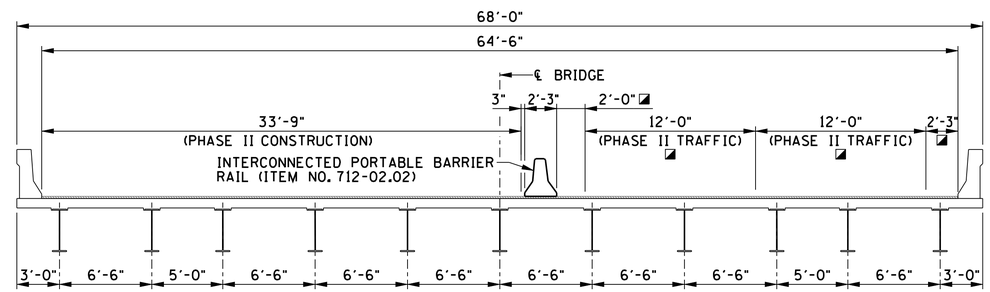
(7) INCLUDES COST OF ALL LABOR, EQUIPMENT AND MATERIALS TO PLACE BRIDGE DECK SEALANT. SEAL SHALL BE PLACED ON CONCRETE PARAPET AND ON SIDE OF CONCRETE HEADER AT MODULAR EXPANSION JOINT AND SHALL BE PLACED OVER FULL AREA OF BRIDGE DECK EXPOSED DURING REPLACEMENT OF MODULAR EXPANSION DEVICE. SEALANT SHALL BE SPRAYED ONTO DECK IN LIEU OF BEING BRUSHED OR ROLLED ONTO THE DECK.

(8) INCLUDES ALL COSTS OF LABOR, EQUIPMENT AND MATERIALS TO REMOVE AND DISPOSE OF ASBESTOS CONTAINING MATERIALS (ACM) DISTURBED DURING BRIDGE REPAIR ACTIVITIES. ACM IS PRESENT IN THE TEXTURE COAT ON ALL SURFACES EXCEPT THE INSIDE FACE OF THE PARAPETS. ACM ABATEMENT WORK SHALL BE PERFORMED BY AN ACCREDITED FIRM (CONTRACTOR) USING ACCREDITED ABATEMENT WORKERS AND SUPERVISORS. ALL ACM ABATEMENT WORK SHALL COMPLY WITH SPECIAL PROVISION 202 ACM, SPECIAL PROVISION REGARDING REMOVAL OF ASBESTOS CONTAINING MATERIAL. CONTRACTOR SHALL NOTIFY TDEC DIVISION OF AIR POLLUTION CONTROL TEN (10) DAYS PRIOR TO ACM ABATEMENT IF THE ASBESTOS CONTAINING TEXTURE COAT TO BE REMOVED EXCEEDS 160 SQUARE FEET.



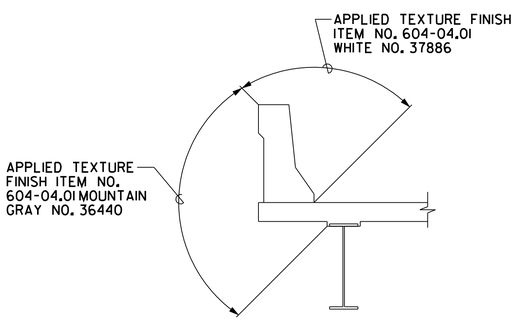
PHASE I
(LOOKING FORWARD ON SURVEY)

◪ DENOTES: TRAFFIC CONTROL



PHASE II
(LOOKING FORWARD ON SURVEY)

◪ DENOTES: TRAFFIC CONTROL



DETAIL SHOWING LIMITS OF TEXTURE FINISH
(REPAIR AREAS ONLY)

NOTE: COST OF TEXTURE COATING SHALL BE INCLUDED IN ITEM NO. 604-04.02.

NOTE: BEFORE APPLYING ANY TEXTURE FINISH, ALL SURFACES SHALL BE COMPLETELY CLEANED OF ALL DEBRIS AND FOREIGN MATERIALS.

NOTE: THE CONTRACTOR SHALL USE CONTAINMENT SCREENS OR OTHER MEASURES AS NECESSARY TO PREVENT ANY TEXTURE COATING FROM ENTERING THE ENVIRONMENT. CONTAINMENT MEASURES SHALL BE APPROVED BY THE ENGINEER AND COST SHALL BE INCLUDED IN ITEMS BID ON.

NOTE: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.22 OF THE TENNESSEE STANDARD SPECIFICATION. A CLASS I FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. THE COLOR OF THE FINISH SHALL BE SIMILAR TO MOUNTAIN GRAY, FEDERAL SPECIFICATION NO. 36440, FEDERAL COLOR STANDARD NO. 595A, EXCEPT THAT THE INSIDE FACE AND TOP OF THE PARAPET SHALL BE WHITE, FEDERAL SPECIFICATION NO. 37886. A COLOR SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. NO TEXTURE FINISH SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAUL OPERATIONS AT THE BRIDGE SITE. THE APPLIED TEXTURE FINISH SHALL BE MEASURED AND PAID FOR UNDER ITEM NO. 604-04.02.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

ESTIMATED BRIDGE QUANTITES

BRIDGE NO. 19-I24-15.42LT
BRIDGE NO. 19-I24-15.42RT
INTERSTATE 24 OVER
CUMBERLAND RIVER
DAVIDSON COUNTY
2014

DESIGNED BY D. THOMPSON/L. HORN DATE
DRAWN BY ANGELA MOORE DATE
SUPERVISED BY DARRELL JAMES DATE
CHECKED BY JAMIE GILLESPIE DATE

JAMES & ASSOCIATES, INC.

BR-116-47