CONST. NO. 51005-3230-14

PROJECT NO.	YEAR	SHEET NO.
NH-99(51)	2015	2

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

GENERAL NOTES

SPECIFICATIONS: STANDARD ROAD AND BRIDGE SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF TRANSPORTATION. (JANUARY 1, 2015 EDITION).

LOADING: HS20-44

DESIGN SPECIFICATIONS: AASHTO 2002 EDITION WITH ADDENDA INCLUDING THE STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES. (SEISMIC PERFORMANCE CATEGORY A WITH ACCELERATION COEFFICIENT 0.075).

CONCRETE: TO BE CLASS "A". f'c TO BE 4,000 psi FOR SUPERSTRUCTURE CONCRETE @ 28 DAYS AND 4,000 psi FOR SUBSTRUCTURES AND PARAPETS.

CLASS "D" CONCRETE FOR BRIDGE DECKS SHALL BE IN ACCORDANCE WITH SECTION 604 OF THE STANDARD SPECIFICATIONS, EXCEPT SHALL HAVE A MINIMUM STRENGTH OF 4,000 psi @ 28 DAYS.

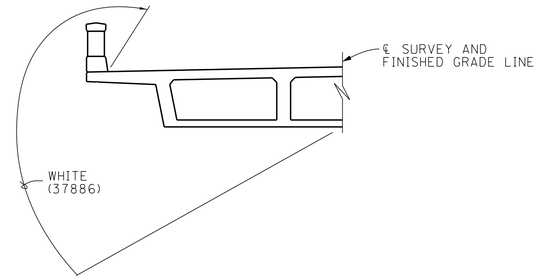
REINFORCING STEEL: SHALL BE ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE. SEE SECTION 604 AND 907 OF THE STANDARD SPECIFICATIONS.

BRIDGE RAIL SYSTEM: BUILD BRIDGE RAILINGS ACCORDING TO DWG. BR-119-52 THE BRIDGE RAIL SHALL BE FORMED AND CAST PLUMB, NOT PERPENDICULAR TO THE SLAB. THE DIMENSIONS AT THE FRONT OR TRAFFIC FACE OF THE CURB SHALL HAVE A 10" MIN., TO 11" MAX. EXPOSED FACE ONCE ASPHALT OVERLAY IS IN PLACE. WITH VARIATION DUE TO CROSS SLOPE ACCOMMODATED AT THE REAR FACE.

MAINTAIN TRAFFIC ON DETOUR AS SPECIFIED IN ROADWAY PLANS DURING CONSTRUCTION.

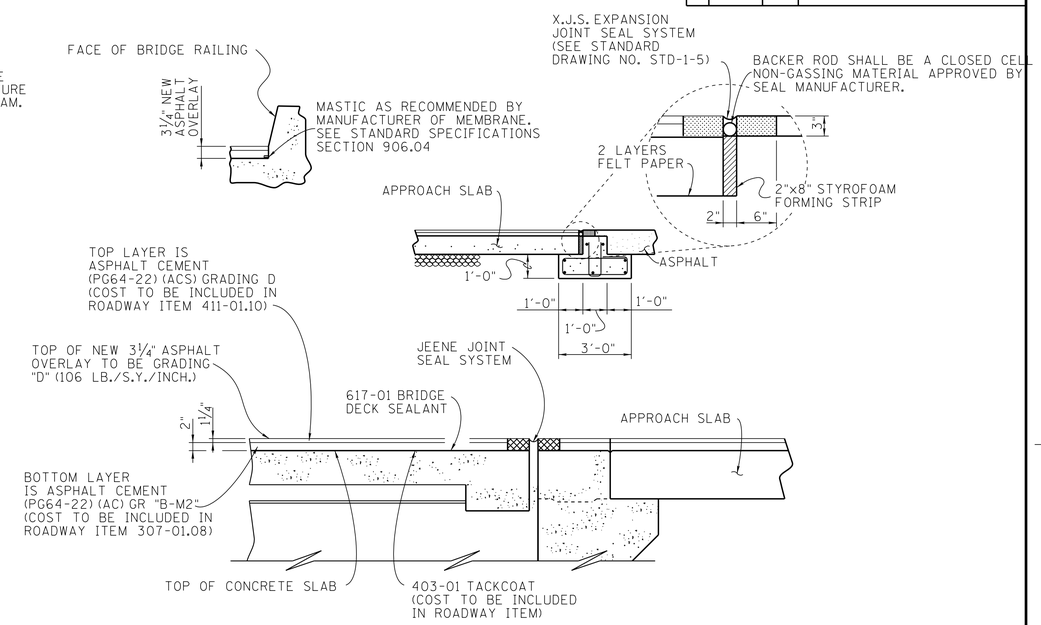
SHOP DRAWINGS: SEE SECTION 105.02 OF THE STANDARD SPECIFICATIONS.

FINISHING CONCRETE SURFACES: CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE TENNESSEE STANDARD SPECIFICATIONS HAVING A CLASS II FINISH. THE COST OF FINISHING CONCRETE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM NO. 604-04.02.



TEXTURE FINISH SKETCH

NOTE: IN ADDITION TO AREAS SHOWN IN THE ABOVE SKETCH, THE FOLLOWING EXPOSED AREAS SHALL RECEIVE AN APPLIED TEXTURE FINISH: WINGWALLS, ABUTMENT FRONT FACE, AND ABUTMENT BEAM.



BRIDGE DECK SEALANT DETAIL

ESTIMATED QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	TOTAL	SUPERSTRUCTURE	ABUTMENT 1	BENT 1	BENT 2	ABUTMENT 2
1	202-04.01	REMOVAL OF STRUCTURES	L.S.	1					
3 4	604-04.02	APPLIED TEXTURE FINISH (EXISTING STRUCTURES, CLASS II)	S.Y	3,355					
	604-10.02	CONCRETE REPAIRS	C.Y.	10		5			5
5	604-10.60	EXPANSION JOINT REPAIRS (ABUT. NO. 1, JEENE EXPANSION JOINT SEAL MODEL NO. 40W)	L.F.	40					
5	604-10.61	EXPANSION JOINT REPAIRS (ABUT. NO. 2 JEENE EXPANSION JOINT SEAL MODEL NO. 40W)	L.F.	40					
6	604-10.62	EXPANSION JOINT REPAIRS (BEG. OF BRIDGE APPROACH PAVEMENT JOINT)	L.F.	34					
6	604-10.63	EXPANSION JOINT REPAIRS (END OF BRIDGE APPROACH PAVEMENT JOINT)	L.F.	34					
7	617-01	BRIDGE DECK SEALANT	S.Y.	1,530					
8	617-02	BRIDGE DECK CRACK SEALANT	L.F.	440					
9	617-05	SEALANT (HMWM)	GAL.	3					
	620-03.11	CONCRETE PARAPET (NATCHEZ TRACE RAIL)	L.F.	968					

1 NOTE: LUMP SUM: THE COST OF REMOVING RAILS, ASPHALT OVERLAY, DEBRIS IN BOX, (I.E. TRASH, NAILS PROJECTING FROM CONCRETE), AND EXPANSION JOINT AT THE END OF THE APPROACH PAVEMENT SHALL BE INCLUDED IN ITEM NO. 202-04.01

2 THE COST OF WATER STOPS, BITUMINOUS FIBERBOARD AND ALL MISCELLANEOUS JOINT MATERIAL TO BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.

3 NOTE: ALL COST ASSOCIATED WITH THE CLASS II FINISH, INCLUDING LABOR, MATERIALS, AND INCIDENTALS SHALL BE INCLUDED IN APPLIED TEXTURE FINISH.

4 CONCRETE SURFACE SAMPLES: THE CONTRACTOR SHALL SUBMIT PRELIMINARY CONCRETE SAMPLES OF CLASS II RUBBED FINISH TO THE CONSTRUCTION OFFICE AND THE NPS FOR APPROVAL. SUBMIT 3'-0"x3'-0"x4" PANELS FOR EACH APPROVED CONCRETE MIX DESIGN FOR FINAL SURFACE FINISH AND COLOR APPROVAL. USE MORTAR COMPOSED OF CEMENT AND FINE BROWN SAND MIXED IN 3:1 PROPORTIONS. CONSTRUCT AND CURE PANELS IN THE SAME MANNER AS EACH APPROVED MIX DESIGN WILL BE AT THE JOB SITE.

5 NOTE: ALL COST FOR THE COMPLETE INSTALLATION OF THE JEENE EXPANSION JOINT MODEL NO. 40W INCLUDING MATERIAL, LABOR, AND ANY OTHER INCIDENETALS SHALL BE INCLUDED IN ITEM NO. 604-10.60 AND 604-10.61.

6 NOTE: ALL COST FOR THE COMPLETE INSTALLATION OF THE X.J.S. EXPANSION JOINT INCLUDING MATERIAL, LABOR, AND ANY OTHER INCIDENETALS SHALL BE INCLUDED IN ITEM NO. 604-10.62 AND 604-10.63.

7 NOTE: TACK COAT SHALL BE APPLIED TO 100 PERCENT OF BRIDGE DECK ALL COST SHALL BE INCLUDED IN ITEM NO. 403-01.

8 INCLUDES ALL COSTS FOR INSTALLING THE BRIDGE DECK CRACK SEALER (HMWM) INCLUDING CRACK PREPARATION, CLEANING, LABOR AND ALL MISCELLANEOUS MATERIALS REQUIRED TO SEAL THE TEMPORARY OPENINGS AND TRANSVERSE JOINTS IN THE DECK FOR THE EXPANSION JOINT INSTALLATION.

9 INCLUDES ALL COSTS FOR FURNISHING THE SEALANT (HMWM) FOR SEALING CRACKS. THE SEALANT (HMWM) SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATIONS.

NOTES FOR ITEM NO. 604-10.02:

CONCRETE: TO BE SHRINKAGE COMPENSATING CONCRETE, f'c = 4,000 p.s.i. AT 28 DAY STRENGTH.

AFTER CONCRETE REMOVAL TO THE MINIMUM DEPTH HAS TAKEN PLACE, THE ENGINEER SHALL HAVE THE OPTION TO REMOVE ADDITIONAL CONCRETE DEPTH AND SHALL DESIGNATE THIS AREA TO BE REPAIRED AND PAID FOR UNDER ITEM NO. 604-10.02.

NOTE: ITEM NO. 604-10.02 SHALL BE BID WITH THE CONTINGENCY THAT THIS ITEM MAY BE INCREASED, DECREASED, OR ELIMINATED AS DIRECTED BY THE ENGINEER.

NOTE: PNEUMATIC CHIPPING HAMMERS OF THE 15 POUND CLASS SHALL BE USED TO REMOVE CONCRETE.

NOTE: EXTREME CARE SHALL BE TAKEN WHEN REMOVING EXISTING CONCRETE SO AS NOT TO DAMAGE THE EXISTING REINFORCING STEEL. ALL EXPOSED EXISTING REINFORCING STEEL THAT IS TO REMAIN IN PLACE SHALL RECEIVE A COMPLETE CLEANING TO REMOVE ALL RUST. ALL WORK MUST MEET WITH THE FULL APPROVAL OF THE ENGINEER.

NOTE: COST OF SAW CUTTING, EXISTING CONCRETE REMOVAL, CLEANING OF EXISTING REINFORCING STEEL, NEW CONCRETE, LABOR AND ANY MISCELLANEOUS MATERIALS NECESSARY TO COMPLETE THE REPAIRS AS SHOWN IN THESE DETAILS TO BE INCLUDED UNDER ITEM 604-10.02, CONCRETE REPAIR, C.Y.

NOTE: AREA OF CONCRETE REMOVAL SHALL BE DESIGNATED BY PERSONAL FROM THE BRIDGE DESIGN OFFICE. INSPECTIONS TO DETERMINE AREAS OF REPAIR SHALL BE SCHEDULED WITH THE BRIDGE DESIGN OFFICE AT LEAST FOURTEEN (14) DAYS IN ADVANCE.

JOHN S. HASTINGS
REGISTERED ENGINEER
AGRICULTURE
No. 110
STATE OF TENNESSEE
5-15-15

CORRECT Wayne A. Seger
ENGINEER OF STRUCTURES

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION
BRIDGE NO. 1
GENERAL NOTES AND
ESTIMATED QUANTITIES
NATCHEZ TRACE PARKWAY
OVER STATE ROUTE 99
STATION 24+93.51
LEWIS COUNTY
2015

BR-119-50

DESIGNED BY J.S. HASTINGS DATE 12-14
DRAWN BY KEVIN MARTINKO DATE 1-15
SUPERVISED BY J.S. HASTINGS DATE 1-15
CHECKED BY J.S. HASTINGS DATE 5-15