GENERAL NOTES:

PROJECT NO.	YEAR	SHEET NO.
73100-4117-04	2014	2

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION

SPECIFICATIONS:

STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, TENNESSEE DEPARTMENT OF TRANSPORTATION, (MARCH 1, 2006 EDITION)

LOADING:

HS20-44 LIVE LOADING, SEISMIC ZONE A ACCELERATION COEFFICIENT Z=0.09

DESIGN SPECIFICATIONS:

AASHTO STANDARD SPECIFICATIONS, 17TH EDITION WITH ADDENDA

CONCRETE:

TO BE CLASS "A" (CAST IN PLACE), f'c=3,000 psi, EXCEPT AS NOTED OTHERWISE.

CONCRETE CURING

ALL CONCRETE IN REPAIR AREAS SHALL BE CURED ACCORDING TO THE STANDARD SPECIFICATIONS.

SHOP DRAWINGS:

SEE SECTION 105.2 OF THE STANDARD SPECIFICATIONS. A COPY SHALL ALSO BE SUBMITTED TO THE DIVISION OF STRUCTURES, BRIDGE INSPECTION AND REPAIR OFFICE.

FALSEWORK OVER TRAFFIC:

SEE SECTION 604.06 OF THE STANDARD SPECIFICATIONS.

REQUIREMENTS AND RESTRICTIONS FOR PHASE CONSTRUCTION:

ONE 16 FOOT TRAFFIC LANE (MIN. WIDTH) SHALL BE MAINTAINED ON THE EXISTING BRIDGE AND ONE 9 FOOT LANE OF TRAFFIC (MIN. WIDTH) ON OAKDALE ROAD (NFA 1203) SHALL BE MAINTAINED AT ALL TIMES. PROVIDE A WIDE LOAD DETOUR AS SHOWN IN THE PLANS.

FORMS AND FALSEWORK:

CONCRETE FORM WORK AND FALSEWORK SHALL BE REMOVED AFTER REPAIRS ARE COMPLETED. COST OF FORMS, FALSEWORK, AND THEIR REMOVAL SHALL BE INCLUDED IN ITEMS BID ON. THIS WORK SHALL BE COMPLETED BEFORE FINAL PAYMENT IS APPROVED.

FINISHING CONCRETE SURFACES:

CONCRETE FINISHING SHALL BE IN ACCORDANCE WITH SECTION 604.21 OF THE TENNESSEE STANDARD SPECIFICATIONS. A CLASS I FINISH FOLLOWED BY AN APPLIED TEXTURE FINISH SHALL BE USED IN LIEU OF A CLASS II FINISH. NO TEXTURE COATING SHALL BE APPLIED PRIOR TO COMPLETION OF PAVING AND HAULING OPERATIONS AT THE BRIDGE SITE. FOR LOCATION DETAILS, SEE THIS SHEET.

SPECIAL NOTE FOR UTILITIES:

CARE SHALL BE TAKEN WHILE REMOVING AND REPAIRING BRIDGE COMPONENTS SO AS NOT TO DISTURB OR DAMAGE ANY UTILITIES.

DEMOLITION:

THE CONTRACTOR SHALL TAKE SPECIAL CARE TO PROTECT ANY PARTS OF THE STRUCTURE THAT ARE NOT TO BE REMOVED SPECIFICALLY. THE CONTRACTOR IS NOT ALLOWED TO USE A HYDRAULIC RAM MOUNTED ON A BACKHOE (COMMONLY CALLED A HOE RAM) OR OTHER SIMILARLY HEAVY EQUIPMENT FOR CONCRETE REMOVAL. PNEUMATIC HAMMERS MAY BE USED, AS SPECIFIED, TO REMOVE UNSOUND CONCRETE. SAWING OR CUTTING OF THE CONCRETE IS ACCEPTABLE SO LONG AS ANY SPECIFIED PROJECTION OF THE EXISTING REINFORCEMENT IS MAINTAINED. ALL DEVICES PROPOSED FOR CONCRETE DEMOLITION SHALL MEET THE APPROVAL OF THE ENGINEER.

SPECIAL NOTES TO CONTRACTOR:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION. DESIGN CALCULATIONS AND DETAILS OF THE TEMPORARY SUPPORT SYSTEM OR FALSEWORK REQUIRED SHALL BE SUBMITTED TO THE ENGINEEER FOR REVIEW AND SHALL MEET WITH THE FULL SATISFACTION OF THE ENGINEER BEFORE ANY DEMOLITION IS BEGUN. COST OF LABOR AND MATERIALS FOR STABILIZATION OF THE STURCTURE SHALL BE INCLUDED IN ITEM NO. 602-10.05, BRACING REPAIRS, L.S.

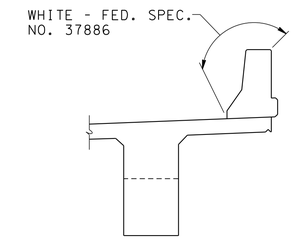
THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND QUANTITIES BEFORE ORDERING ANY MATERIALS.

QUICK SET PATCHING MATERIAL:

QUICK-SET PATCHING MATERIAL SHALL BE A POLYMER MODIFIED CEMENTIOUS MATERIAL. SEE TDOT QUALIFIED PRODUCTS LIST 13, SECTION B.6, FOR ACCEPTABLE MATERIALS.

SEASONAL LIMITATIONS NOTE:

THE SWALLOW NESTS CANNOT BE DISTURBED WHILE EGGS OR YOUNG ARE PRESENT IN THE NEST. THE APPROXIMATE DATE FOR NESTING ACTIVITIES BEGINNING IS MAY 1 AND THE FLEDGLING FOR THE CLIFF SWALLOW IS JULY, 15. NOTE THAT THESE ARE APPROXIMATE DATES AND NESTING COULD OCCUR EARLIER AND LAST UNTIL LATER. THE DATES ARE FOR GUIDANCE ONLY AND THE EMPHASIS IS ON THE PRESENCE OR ABSENCE OF EGGS OR YOUNG, NOT THE DATES. THE CONTRACTOR CANNOT DISTURB THE SWALLOWS OR NESTS AS LONG AS EGGS AND/OR YOUNG ARE PRESENT. THE USFWS HAS GIVEN THE DATE OF JULY 15 AS THE TYPICAL TIME WHEN YOUNG SHOULD BE LEAVING THE NEST. HOWEVER, THIS DATE COULD BE UP TO A MONTH OR MORE LATER DEPENDING ON WHEN THE SWALLOWS ACTUALLY LAY THEIR EGGS. IF THE BIRDS ARE PRESENT AND EGGS OR YOUNG ARE IN THE NEST, THEY ARE NOT TO BE DISTURBED UNTIL THE YOUNG LEAVE THE NESTS. IF WORK BEGINS PRIOR TO THE BIRDS NESTING, THE CONTRACTOR CAN REMOVE THE NESTS AND TAKE MEASURES TO PREVENT THE SWALLOWS FROM BUILDINGS NESTS AND WORK THROUGHOUT THE NESTING SEASON. THIS COULD BE INSTALLATION OF NETTING, TARPS OR JUST HAVING SOMEBODY AVAILABLE TO REMOVE THE NESTS BEFORE THE BIRDS CAN LAY EGGS IN THEM.



APPLIED TEXTURE FINISH

SYMMETRIC ABOUT ℄ BRIDGE

TEXTURE FINISH NOTES

IN ADDITION TO SURFACES SHOWN, THE BEAMS, BENT COLUMNS AND DIAPHRAGMS ARE TO RECEIVE AN APPLIED TEXTURE FINISH (ONLY TOUCH UP AS DIRECTED BY THE ENGINEER), MOUNTAIN GREY, (FED. SPEC. NO. 36440).

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

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.

THE EXISTING SURFACES THAT ARE TO RECEIVE A TEXTURE FINISH SHALL BE FREE OF ALL FLAKING TEXTURE COATING, RUST, DIRT, OIL, AND OTHER FOREIGN SUBSTANCES PRIOR TO THE APPLICATION OF THE TEXTURE FINISH. THE SURFACE SHALL BE CLEANED TO THE COMPLETE SATISFACTION OF THE ENGINEER USING A HIGH PRESSURE WASH. COST TO BE INCLUDED IN ITEM NO. 604-04.02.

THE WASH WATER IS TO BE FILTERED AND PAINT CHIPS AND DEBRIS COLLECTED PRIOR TO RELEASE OF WATER.

ESTIMATED BRIDGE QUANTITIES

	ITEM NO.	DESCRIPTION	UNIT	QUANTITY
⑤	602-10.05	BRACING REPAIRS	LS	1
	604-04.02	APPLIED TEXTURE FINISH (EXISTING STRUCTURES)	S.Y.	186
① *	604-10.05	CONCRETE	S.F.	21
④	604-10.14	REMOVE EXISTING WEARING SURFACE	LS	1
*	604-10.30	BRIDGE DECK REPAIRS (FULL DEPTH OF SLAB)	S.Y.	125
②	604-10.42	CONCRETE REPAIRS	C.F.	2
*	604-10.50	BRIDGE DECK REPAIRS (PARTIAL DEPTH OF SLAB)	S.Y.	200
③	604-10.54	CONCRETE REPAIRS	S.F.	21
*	604-10.58	EPOXY INJECTION (INJECTION)	GAL.	10
*	604-10.62	EPOXY INJECTION REPAIR (COMPLETE AND IN PLACE)	L.F.	195
	617-01	BRIDGE DECK SEALANT	S.Y.	805

* DENOTES: ITEM SHALL BE BID AS CONTINGENCY AND MAY BE INCREASED, DECREASED, OR ELIMINATED AS DIRECTED BY THE ENGINEER.

FOOTNOTES:

① INCLUDES ALL LABOR AND MATERIALS TO PLACE HIGH EARLY STRENGTH CONCRETE FOR REPAIR AREAS NOTED IN PLANS.

② INCLUDES ALL LABOR AND MATERIALS FOR REMOVING EXISTING DIAPHRAGM CONCRETE AND PLACING HIGH EARLY STRENGTH CONCRETE AS NECESSARY TO COMPLETE DIAPHRAGM REPAIR AS SHOWN IN THE PLANS.

③ INCLUDES ALL LABOR AND MATERIALS TO PLACE A POLYMER MODIFIED CEMENTITIOUS STRUCTURAL PATCHING MATERIAL FOR REPAIR AREAS NOTED IN PLANS.

④ INCLUDES REMOVAL AND DISPOSAL OF ASPHALT FROM SURFACE OF BRIDGE ONLY. (AVERAGE DEPTH = 3¼").

⑤ INCLUDES ALL NECESSARY TEMPORARY SUPPORT OF THE STRUCTURE FOR THE DURATION OF THE PROJECT. BRACING PLANS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND
ESTIMATED BRIDGE QUANTITIES
INTERSTATE 40 OVER
OAKDALE ROAD (NFA 1203)
BRIDGE NO. 73-10040-01.08
ROANE COUNTY
2014

DESIGNED BY M. JONES DATE 07/13
DRAWN BY M. JONES DATE 07/13
SUPERVISED BY L. BILBREY DATE 07/13
CHECKED BY J. ECKEL DATE 07/13

4/29/2014
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