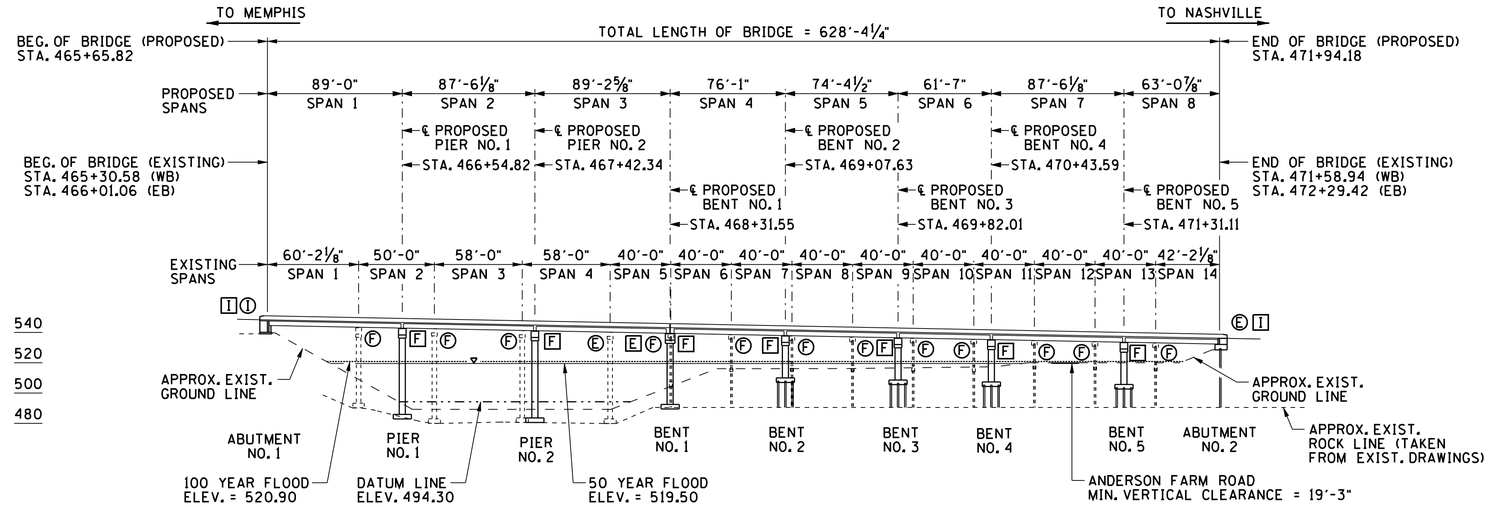
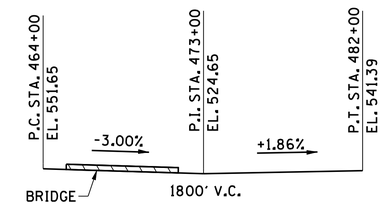


ELEVATION 1

Ⓕ DENOTES: FIXED (EXISTING SUPPORT CONDITION)
Ⓔ DENOTES: EXPANSION (EXISTING SUPPORT CONDITION)
Ⓘ DENOTES: INTEGRAL (EXISTING SUPPORT CONDITION)
F DENOTES: FIXED (PROPOSED SUPPORT CONDITION)
E DENOTES: EXPANSION (PROPOSED SUPPORT CONDITION)
I DENOTES: INTEGRAL (PROPOSED SUPPORT CONDITION)

NOTE: ALL DIMENSIONS AND VERTICAL ELEVATIONS ARE BASED ON EXISTING PLAN INFORMATION AND FIELD MEASUREMENTS. PRIOR TO CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.



GRADE SKETCH ALONG ℄ OF PROPOSED BRIDGE 1 2

N.T.S.

CONST. NO. BR-I-40-3(155)

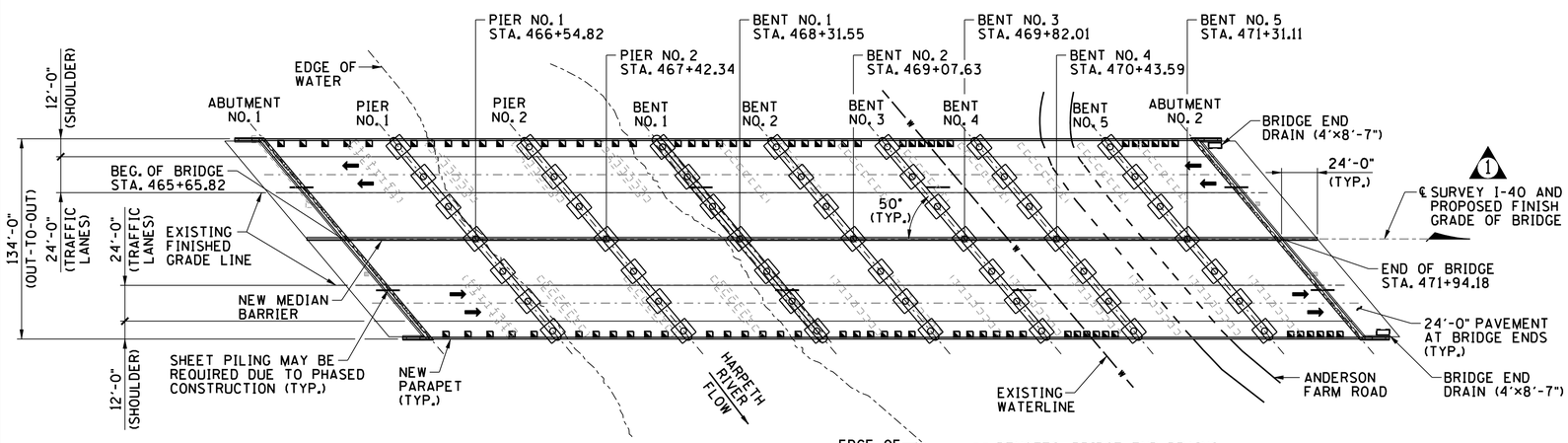
PROJECT NO.	YEAR	SHEET NO.
11003-3134-94	2014	

REVISIONS

NO.	DATE	BY	BRIEF DESCRIPTION
1	02-05-13	DWT	MODIFIED BENT NO.5, GRADE SKETCH AND ADDED DRAWING REVISION DATES
2	04-26-13	DWT	MODIFIED GRADE SKETCH AND ADDED DRAWING REVISION DATES
3	11-06-13	DWT	ADDED DRAWING REVISION DATES AND REVISED 50 AND 100 YEAR FLOOD ELEVATIONS
4	11-15-13	DWT	ADDED DRAWING REVISION DATES

LIST OF DRAWINGS

	DWG. NO.	LAST REV. DATE
LAYOUT OF BRIDGE TO BE REPAIRED	BR-113-22	11-15-13
GENERAL NOTES, ESTIMATED BRIDGE QUANTITIES AND MISC. DETAILS	BR-113-23	11-15-13
FOUNDATION DATA	BR-113-24	02-05-13
PHASING (PHASE II - EXISTING SPANS 1 THRU 14)	BR-113-25	04-26-13
PHASING (PHASE IV - PROPOSED SPANS 1 THRU 8)	BR-113-26	04-26-13
DEMOLITION DETAILS	BR-113-27	04-26-13
SUPERSTRUCTURE	BR-113-28	11-15-13
SUPERSTRUCTURE DETAILS (SPANS 1 THRU 3)	BR-113-29	
SUPERSTRUCTURE DETAILS (SPANS 1 THRU 3)	BR-113-30	
SUPERSTRUCTURE DETAILS (SPANS 4 THRU 8)	BR-113-31	04-26-13
SUPERSTRUCTURE DETAILS (SPANS 4 THRU 8)	BR-113-32	
FRAMING PLAN (SPANS 1 THRU 4)	BR-113-33	11-06-13
FRAMING PLAN (SPANS 5 THRU 8)	BR-113-34	11-06-13
PRESTRESSED CONCRETE BOX BEAM DETAILS (SPANS 1, 2, 3 AND 7)	BR-113-35	04-26-13
PRESTRESSED CONCRETE BOX BEAM DETAILS (SPANS 4 AND 5)	BR-113-36	04-26-13
PRESTRESSED CONCRETE BOX BEAM DETAILS (SPANS 6 AND 8)	BR-113-37	04-26-13
ABUTMENT NO. 1 (PHASE II)	BR-113-38	11-15-13
ABUTMENT NO. 1 (PHASE IV - EASTBOUND)	BR-113-39	11-15-13
ABUTMENT NO. 1 (PHASE IV - WESTBOUND)	BR-113-40	11-15-13
ABUTMENT NO. 1 DETAILS	BR-113-41	04-26-13
ABUTMENT NO. 2 (PHASE II)	BR-113-42	11-15-13
ABUTMENT NO. 2 (PHASE IV - WESTBOUND)	BR-113-43	11-15-13
ABUTMENT NO. 2 (PHASE IV - EASTBOUND)	BR-113-44	11-15-13
ABUTMENT NO. 2 DETAILS	BR-113-45	04-26-13
PIER NOS. 1 AND 2 (PHASE II)	BR-113-46	11-15-13
PIER NOS. 1 AND 2 (PHASE IV - WESTBOUND)	BR-113-47	11-15-13
PIER NOS. 1 AND 2 (PHASE IV - EASTBOUND)	BR-113-48	11-15-13
PIER NOS. 1 AND 2 DETAILS	BR-113-49	
BENT NO. 1 (PHASE II)	BR-113-50	11-15-13
BENT NO. 1 (PHASE IV - WESTBOUND)	BR-113-51	11-15-13
BENT NO. 1 (PHASE IV - EASTBOUND)	BR-113-52	11-15-13
BENT NO. 1 DETAILS	BR-113-53	
BENT NOS. 2 THRU 5 (PHASE II)	BR-113-54	11-15-13
BENT NOS. 2 THRU 5 (PHASE IV - WESTBOUND)	BR-113-55	11-15-13
BENT NOS. 2 THRU 5 (PHASE IV - EASTBOUND)	BR-113-56	11-15-13
BENT NOS. 2 THRU 5 DETAILS	BR-113-57	02-05-13
FINAL FOUNDATION DATA	BR-113-58	02-05-13
BILL OF STEEL (PHASE II)	BR-113-59	11-06-13
BILL OF STEEL (PHASE II)	BR-113-60	04-26-13
BILL OF STEEL (PHASE II)	BR-113-61	04-26-13
BILL OF STEEL (PHASE IV)	BR-113-62	11-06-13
BILL OF STEEL (PHASE IV)	BR-113-62A	11-06-13
BILL OF STEEL (PHASE IV)	BR-113-62B	11-06-13
BILL OF STEEL (PHASE IV)	BR-113-62C	11-06-13
BILL OF STEEL (PHASE IV)	BR-113-62D	11-06-13
BILL OF STEEL (PHASE IV)	BR-113-62E	11-06-13
BILL OF STEEL (PHASE IV)	BR-113-62F	11-06-13
BILL OF STEEL (PHASE IV)	BR-113-62G	11-06-13



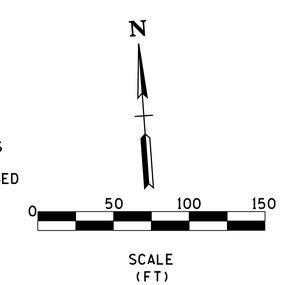
PLAN

LIST OF BRIDGE APPURTENANCES

	DWG. NO.	LAST REV. DATE
BRIDGE RAILING SINGLE SLOPE CONCRETE PARAPET - 2006	STD-1-1SS	06-01-11
STEEL SLIDER PLATE ASSEMBLIES FOR SINGLE SLOPE	STD-1-2SS	
CONCRETE PARAPET AND BRIDGE DECK DRAIN DETAILS - 2006		
STANDARD SINGLE SLOPE CONCRETE MEDIAN BARRIER - 2006	STD-1-3SS	11-01-10
PAVEMENT AT BRIDGE ENDS - 1995	STD-1-5	06-01-11
BRIDGE END DRAIN W/PABE - 1993	STD-1-6	04-28-97
BRIDGE END DRAIN W/PABE - 1993	STD-1-7	08-24-11
BRIDGE END DRAIN 4' X 8'-7" W/PABE - 1993	STD-1-9	05-01-95
BRIDGE MOUNTED INTERCONNECTED PORTABLE BARRIER RAIL - 2005	STD-2-1	11-01-10
STRIP SEAL EXPANSION JOINT	STD-3-1	11-01-10
STRIP SEAL EXPANSION JOINT	STD-3-2	11-01-10
STANDARD PILE DETAILS	STD-5-1	10-25-93
STANDARD PILE DETAILS	STD-5-2	04-08-05
STANDARD SEISMIC DETAILS - 1990	STD-6-1	11-01-10
REINFORCING BAR SUPPORT DETAILS FOR CONCRETE SLABS	STD-9-1	10-07-08
MISCELLANEOUS ABUTMENT AND DRAINAGE DETAILS - 1971	STD-10-1	04-08-05
STANDARD DETAILS FOR PRESTRESSED BOX BEAMS - 1995	STD-14-3	10-15-08

SCOPE OF WORK

1. INSTALL ENVIRONMENTAL PROTECTION.
2. STABILIZE SHOULDERS AND MEDIAN AREA FOR PHASED TRAFFIC CONTROL.
3. PROVIDE TRAFFIC CONTROL FOR TWO EFFECTIVE PHASES OF CONSTRUCTION ON INTERSTATE 40 BRIDGE.
4. INSTALL SHORING AND CONSTRUCT NEW FOUNDATION BETWEEN EXISTING BRIDGES.
5. CONSTRUCT NEW INTERMEDIATE SUBSTRUCTURE AND SUPERSTRUCTURE BETWEEN EXISTING BRIDGES WITH BRIDGE MEDIAN BARRIER, STD-1-3SS.
6. TRANSITION APPROACH PAVEMENT TO NEW BRIDGE DECK.
7. CONDUCT PHASED DEMOLITION OF EXISTING SUBSTRUCTURES AND SUPERSTRUCTURES.
8. CONSTRUCT NEW SUBSTRUCTURES AND SUPERSTRUCTURES WITH 8 1/4" CONCRETE DECK AND PRESTRESSED CONCRETE BOX BEAMS.
9. PROVIDE STD-1-1SS PARAPETS WITH DRAINS IN SPANS 1 THRU 6 AND SPAN 8 AND END OF BRIDGE DRAINS AT ABUTMENT NO. 2.
10. CONSTRUCT PAVEMENT AT BRIDGE ENDS TIED TO BOTH ABUTMENTS WITH EXPANSION HANDLED AT PROPOSED BENT NO. 1 AND END OF PAVEMENT AT BRIDGE ENDS AT ABUTMENT NO. 2.
11. TRANSITION APPROACH ASPHALT PAVEMENT AS REQUIRED.
12. TEXTURE COAT ALL EXPOSED CONCRETE SURFACES.
13. REPAIR OR REPLACE DAMAGED APPROACH GUARDRAIL AS REQUIRED AND PROVIDE TERMINALS TO CURRENT DESIGN STANDARDS.
14. RELOCATE EXISTING CABLE MEDIAN BARRIER AT EAST END OF MEDIAN UPGRADE.



R. DARRELL JAMES REGISTERED ENGINEER NO. 15291 STATE OF TENNESSEE
04/04/2014

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

LAYOUT OF BRIDGE TO BE REPAIRED

BRIDGE NO. 11-10040-05.63 (EB & WB)
INTERSTATE 40 OVER HARPETH RIVER
CHEATHAM COUNTY
2014

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

JAMES & ASSOCIATES, INC.

BR-113-22