

17

SCANNED

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"	10-19	STANDARD BRIDGE DWGS. NO. E-5-33, E-2-87, C-4-120, E-2-146, C-4-122, E-5-32, E-5-34, E-2-91, E-2-106 & E-2-143.
"	20-34	CROSS-SECTIONS Destroyed 10/21/76
"	19-A	CONCRETE GUARD POST DWG. RD-R-1
"	19-B	TIMBER GUARD POST DWG. RD-R-2

STATE OF TENNESSEE
DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

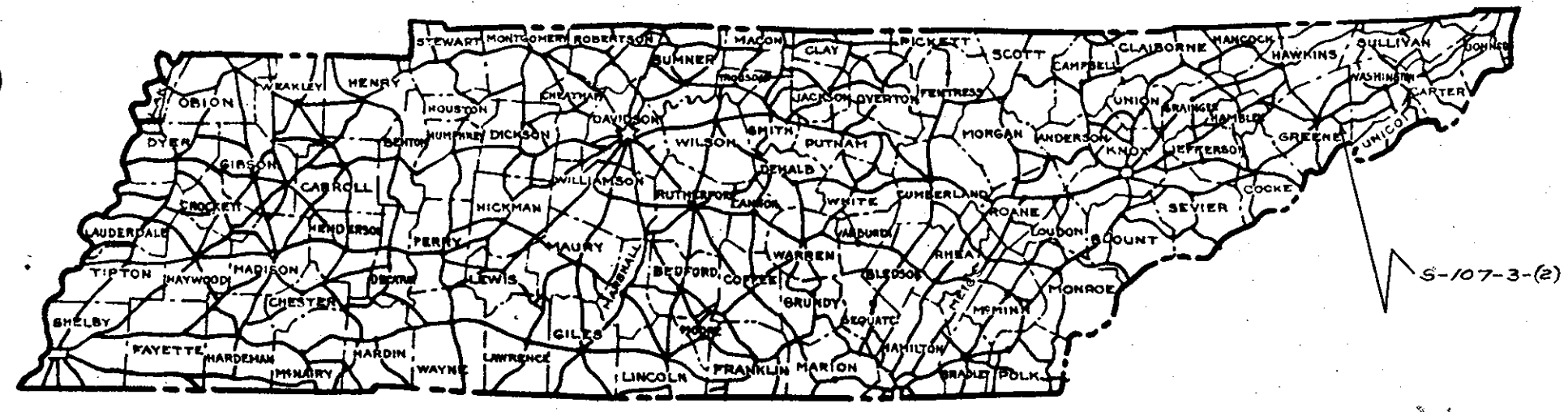
FEDERAL AID PROJECT NO. S-107-3-(2)
SECTION-
GREENE COUNTY

BRIDGE AND APPROACHES OVER
NOLICHUCKY RIVER.

STATE HIGHWAY NO. 107 F.A.H.S. NO.
SCALES (PLAN, 1 IN.=100 FT.
(PROFILE, HOR. 1 IN.=100 FT., VERT. 1 IN.=10 FT.

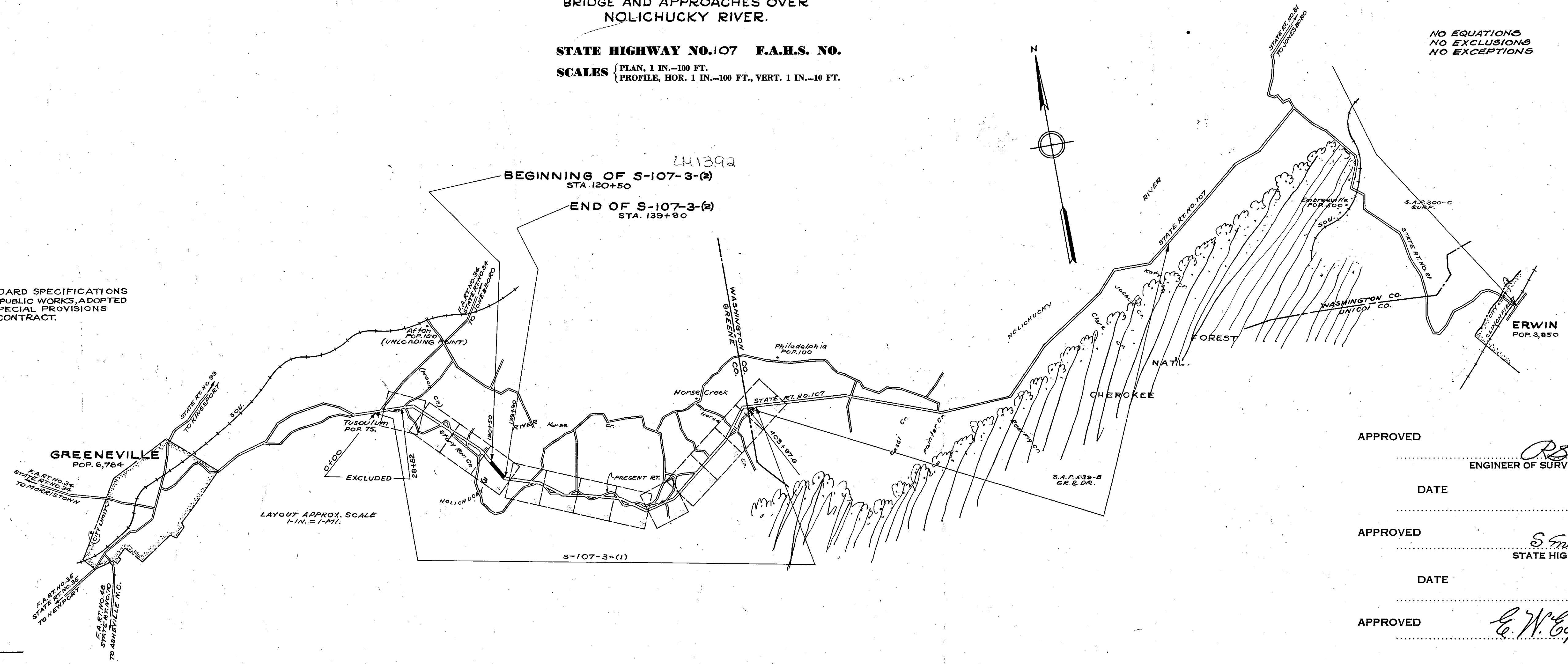
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
8	TENN.	S-107-3-(2)	1950	1	3

REVISED 1-20-50
ADD GUARD POST DRAWINGS SHEET 19 A & B TO INDEX OF SHEETS



THIS PROJECT TO BE CONSTRUCTED UNDER THE STANDARD SPECIFICATIONS OF THE TENNESSEE DEPARTMENT OF HIGHWAYS AND PUBLIC WORKS, ADOPTED JAN. 1, 1938, AND ADDITIONAL SPECIFICATIONS AND SPECIAL PROVISIONS CONTAINED IN THE PLANS AND IN THE PROPOSAL CONTRACT.

NEW LOCATION - NO TRAFFIC TO BE MAINTAINED.



CONVENTIONAL SIGNS

COUNTY LINE	---
CITY, VILLAGE OR BOROUGH	---
CULVERTS	---
POWER POLE	---
TELEPHONE OR TELEGRAPH POLE	---
FENCE LINE	---
GUARD RAIL	---
UNFENCED PROPERTY	---
RIGHT OF WAY LINE	---
TRAVELED WAY	---
RAILROAD	---
RETAINING WALL	---
BASE OR SURVEY LINE	---
DROP INLET	---
BRIDGE OVER 20 FT. SPAN	---

ROADWAY	LENGTH	0.256	MILES
BRIDGE	LENGTH	0.111	MILES
PROJECT	LENGTH	0.367	MILES

APPROVED
ENGINEER OF SURVEYS AND DESIGN

DATE

APPROVED
STATE HIGHWAY ENGINEER

DATE

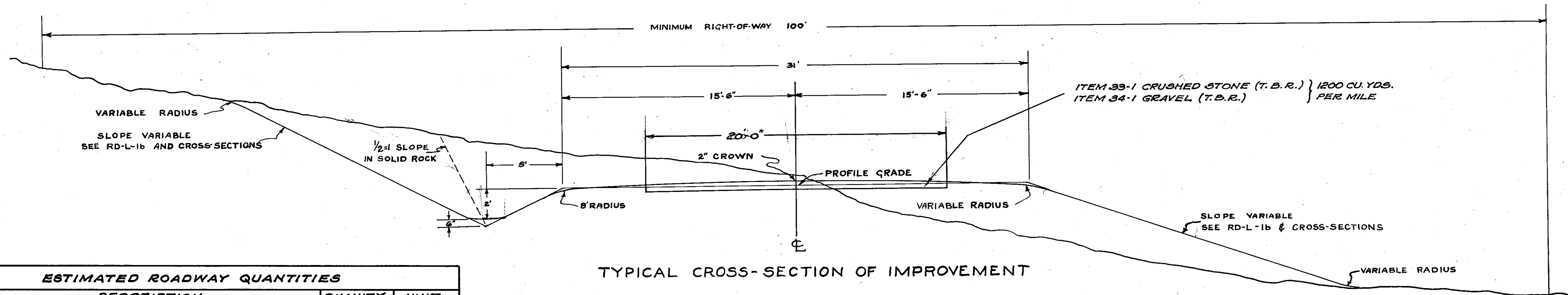
APPROVED
COMMISSIONER

RECOMMENDED FOR APPROVAL DATE

DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

APPROVED
DATE

DIVISION ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE



ESTIMATED ROADWAY QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
11-1	CLEARING AND GRUBBING	1	LUMP SUM
13-3	ROAD AND DRAINAGE EXCAVATION (UNCLASSIFIED)	8,142	CU. YD.
17-1	CULVERT EXCAVATION (UNCLASSIFIED)	32	CU. YD.
33-1	CRUSHED STONE (TRAFFIC BOUND ROADWAY)	307	CU. YD.
34-1	GRAVEL (TRAFFIC BOUND ROADWAY)	307	CU. YD.
135-4	CLASS "A" CONCRETE	439	CU. YD.
135-5	CLASS "B" CONCRETE	6.6	CU. YD.
135-12	STEEL BAR REINFORCEMENTS	6,012	LBS.
141-4	24" CONCRETE PIPE CULVERTS	66	LIN. FT.
141-5	30" CONCRETE PIPE CULVERTS	76	LIN. FT.
15-3	BORROW EXCAVATION (UNCLASSIFIED)	14,640	CU. YD.
174-2	MARKERS	10	EACH
302	WATER	134	M. GAL.
171-42	TIMBER GUARD POST (TREATED)	303	EACH
171-43	CONCRETE GUARD POST	303	EACH
ALTERNATES			
RIGHT-OF-WAY MARKERS			
WATER FOR COMPACTING EARTH EMBANKMENT			
ALTERNATES			

ESTIMATED BRIDGE QUANTITIES

ITEM NO.	DESCRIPTION	BRIDGE # 1	TOTAL	UNIT
17-2	DRY EXCAVATION (BRIDGES)	1,075	1,075	CU. YD.
17-3	WET EXCAVATION (BRIDGES)	615	615	CU. YD.
17-4	ROCK EXCAVATION (BRIDGES)	165	165	CU. YD.
135-4	CLASS "A" CONCRETE	2,073.7	2,073.7	CU. YD.
135-12	STEEL BAR REINFORCEMENTS	230,352	230,352	LBS.
132-1	STRUCTURAL STEEL	3,672	3,672	LBS.
132-2	STEEL FORGINGS	4,576	4,576	LBS.
132-3	PHOSPHOR BRONZE	700	700	LBS.
176-1	RUBBLE STONE RIP-RAP (PLAIN)	120	120	CU. YD.
176-4	SACKED SAND CEMENT RIP-RAP	120	120	CU. YD.
500	ROCK DRILLING	174	174	LIN. FT.
132-51	STEEL STRUCTURES	1	1	LUMP SUM

STA. 126+26
587'-6" BRIDGE
26' ROADWAY
14' SAFETY CURBS
DWG. NO. E-5-31

GRADING QUANTITIES

STATION TO STATION		EXCAVATION CU. YDS.		
		ROADWAY		
		EXC.(UNCL.)	BORROW	CH. CHANGE
120+50	126+26	6,174		
132+13.5	135+36		14,670	
135+36	139+30	1,968		
TOTALS		8,142	14,670	

ESTIMATED QUANTITIES PIPE CULVERTS & CONCRETE ENDWALLS

STANDARD DRAWING D-0-13

STATION	SIZE & LENGTH				SKEW	DRAINAGE AREA ACRES	CULV. EXC. UNCL. CU. YD.	CLASS "B" CONC. CU. YD.	REINF. STEEL LBS.	REMARKS
	18"	24"	30"	36"						
133+60			76'		90°	13 ROLL.	4	3.9	20	
135+75		66'			90°	7 ROLL.	4	2.7	20	
TOTALS		66'	76'				8	6.6	40	

NOTES:

GRADE ON PROFILE SAME AS GRADE ON CROSS-SECTIONS AND SAME AS PROFILE GRADE ON TYPICAL CROSS-SECTION.

ALL EMBANKMENTS SHALL BE CONSTRUCTED IN LAYERS NOT TO EXCEED 6" IN DEPTH. EACH LAYER IS TO BE COMPACTED WITH A SHEEPS-FOOT OR TAMPING ROLLER AT OPTIMUM OF MOISTURE.

THE CONTRACTOR WILL BE REQUIRED TO FURNISH NECESSARY BORROW EXCAVATION. COST TO BE INCLUDED IN ITEM NO. 15-3.

ESTIMATED QUANTITIES CONCRETE BOX CULVERT (UP TO 20' SPAN)

STATION	SPAN	HEIGHT	LENGTH	SKEW	DWG. NO.	DRAINAGE AREA ACRES	CULV. EXC. UNCL. CU. YD.	CLASS "A" CONC. CU. YD.	REINF. STEEL LBS.	REMARKS
121+69	5'	4'	88'	60° RT.	1-14-78 2-4-120 2-2-95	122 ROLL.	24	43.9	5,972	

GUARD POST DWGS. RD-R-1 & RD-R-2

STATION TO STATION	LOCATION	NUMBER
120+50	122+00 RT. & LT.	52
122+00	126+26 RT. ONLY	71
132+13.5	137+50 RT. & LT.	180
TOTAL		303

SUPERELEVATION

0° 30'	.0139
1° 00'	.0170
2° 00'	.0336
3° 00'	.0502
4° 00'	.0668
5° 00'	.0793
6° & OVER	.1000

SCANNED

