APPENDIX A

ADVANCE PLANNING REPORT

STATE ROUTE 58/95 FROM I-40 TO THE FOUR LANE SECTION NEAR WESTOVER DRIVE IN OAK RIDGE ROANE COUNTY

PREPARED BY
TENNESSEE DEPARTMENT OF TRANSPORTATION
BUREAU OF PLANNING AND DEVELOPMENT

Approved by:

Director, Bureau of Planning and Development

7-7-95

Date

REVISION

Recommended by:	INITIALS	DATE	Recommended by:	INITIALS	DATE
TRANS. DIRECTOR PLANNING DIVISION	GAB	5/25/95	TRANS. DIRECTOR PLANNING DIVISION		
ENG. DIRECTOR DESIGN DIVISION	Pay	6/5/95	ENG. DIRECTOR DESIGN DIVISION		()
ENG. DIRECTOR STRUCTURES DIVISION	₩	6/6/95	ENG. DIRECTOR STRUCTURES DIVISION		
TRANS. DIRECTOR PROG. DEV. DIVISION	HUS	6/14/95	ENG. DIRECTOR PROG. DEV, DIVISION		
ASST. EXEC. DIRECTOR PLN. AND DEV.	611	6/28/90	ASST. EXEC. DIRECTOR PLN. AND DEV.		
ASST. EXEC. DIRECTOR PLAN, AND DEV.	even	6/16/95	ASST. EXEC. DIRECTOR PLAN. AND. DEV .		

PURPOSE OF STUDY

This study has been conducted in compliance with the Department's Accelerated Primary Highway Plan that was passed by the Legislature in 1986 as part of the "Urgent Highway Needs" listing. The SR-58 portion of the study is also included in the State's TIP. The purpose of this study is to evaluate the existing conditions of the sections of State Routes 58 and 95 from Interstate Route 40 to the four (4) lane section near Westover Drive to determine improvements needed to handle both present and future traffic demands. In addition, cost estimates for the improvements will be developed and a preliminary analysis of environmental concerns will be made.

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1 3 34.	H 1	•	I P. N		10.00

Geometrics X	Structures_	X Operational X R/R Crossing
Accident Rate	.52	Statewide Average Rate 1.74
Other		

PROPOSED IMPROVEMENT

The subject project has been divided into seven (7) sections for study and scheduling purposes. Improvements proposed for these sections of State Route 58/95 consist of reconstructing the existing two (2) lane facilities. Land use, environmental concerns, the existing roadway and the design year traffic projections were considered in determining the type typical cross sections appropriate for the subject highway. Due to the variables considered, the templates recommended vary at different locations between urban and 4 and 5 lane typicals to rural 4 lane divided typicals.

Section I (length 1.4tk - 0.9t mile) begins at the existing four lane section north of the I-40 and State Route 58 (Gallaher Road) Interchange and ends at Poplar Springs Road. The typical cross-section proposed for this section consists of 2 @7.2m (24') traffic lanes, a 3.6m (12') turn lane, 2 @ 3m (10') shoulders, 2 @ .6m (2') curbs and gutters and 2 @ 2.4m (8') grass plots within 30m (100') of right-of-way. A 65km (40mph) design speed is proposed for this improvement. There is presently 30m (100') of existing right-of-way therefore only slope easements will be necessary to construct this improvement.

It is felt that the 5-lane urban template, that is recommended for this section, is the most appropriate because of the existing development. There also exists the potential for further development.

Section II (Length 3.7±k - 2.3± miles), beg is at Poplar Springs Road and ends 0.6±k (0.4 mile) south of the Clinch River. The proposal for this section is to widen the existing route to the left (northwest) side leaving the right side undisturbed. The left side widening is to avoid a blue line stream that parallels the highway on the right for approximately 490m (1,600'). The typical cross section proposed for this section consists of 2 @ 7.2m (24') traffic lanes, a 3.6m (12') turn lane, 2 @ 3.6m (12') shoulder with ditches within a minimum of 45m(150') of right-of-way. A 100 kmh (60 mph) design speed is proposed.

The template proposed is recommended because the area within the study section presents both rural and urban characteristics. Presently it is built up to a certain degree and there is the potential for more development. Because of the existing development and the probability of future development continuation of the 5-lane template, proposed in Study Section I, is warranted. Because this study section is more rural in nature than Study Section I a higher travel speed will be appropriate. In order to achieve a faster design speed and meet design standards for a five-lane typical the curbs and gutters, included in the Study Section I proposal, will have to be dropped and shoulders and ditches will be utilized.

Section III (Length 2.6tk - 1.6t miles), begins 0.6tk (0.4t mile) south of the Clinch River and ends 0.5tk (0.3t mile) north of Perimeter Road. The end terminus of this study section is located at one of the entrances to the Department of Energy's K-25 Plant. Portions of the K-25 facility are eligible for the National Register of Historical Places either as individual units or as a district. This has not been determined at this time. The proposal for this The proposal for this section is to transition the widening from the left of the existing roadway, as proposed for Section II, to the right side within the horizontal curve at the beginning of the study section. The typical cross section proposed from the beginning of the project to Perimeter Road consist of 2 @ 7.2m (24') traffic lanes, a 3.6m (12') flush median with barrier rail, 2 @ 3.6m (12') shoulders within a minimum of 45m (150') of right-of-way. From Perimeter Road to the end of the study section geometrics of the proposed typical are the same, however, the barrier rail will not be included in the median. A 100 (60 mph) design speed is proposed. The Clinch River and Bear Creek Road Bridges will be widened to accommodate the proposed typical section. Modification of the existing interchange at Bear Creek Road is proposed. The proposal is to construct a half clover leaf type interchange on the north side of the cross road. The proposed improvement will transition back into the present 4 lane roadway just north of Perimeter Road.

The typical section proposed is being recommended to minimize right-of-way requirements, to better facilitate widening the Clinch River Bridge and the interchange bridge at Bear Creek Road while accomplishing the goal of separation directional traffic flow. At the beginning of this study section the highway passes thru/beside flood plains of the Clinch River. This link of highway is also located adjacent to the Department of Energy's property which eliminates the possibility of any future development. The barrier rail is being dropped from the median near Perimeter Road to allow access for both

east and west travel to and from SR-58 and Perime. It Road. The median is also being dropped to transition into the existing adequate roadway (Study Section IV) that passes in front of the Department of Energy's K-25 facility.

Section IV (Length $1.6\pm k-1.0\pm$ mile), from $0.6\pm k$ ($0.3\pm$ mile) north of Perimeter Road to State Route 327 (Blair Road) is an adequate 4-lane facility, therefore no work is proposed for this section.

Section V (Length $0.6\pm k-0.4\pm$ mile), from State Route 327 (Blair Road) to $0.8\pm k$ ($0.5\pm$ mile) south of State Route 95 is recommended to be reconstructed to the same design standards as Section III.

This section of highway lies between two existing 4-lane sections (Study Section IV and VI) which have been determined to be adequate and will not require any improvements. There are two options for improving this section of highway. The alternate chosen is to extend the existing 4-lane barrier section that is presently in place that is included in Study Section VI. It is determined that this type template is the more appropriate because the highway passes thru a rural area that is not developed and in all probability will not be. The property belongs to the Department of Energy. As there is no need for turning movements the barrier provides a better design than a flush median and because of the short length of the section it would not be practical to add another type design.

Section VI (Length $1.6\pm k-1.0\pm$ mile), from $0.8\pm k$ ($0.5\pm$ mile) south of State Route 95 to $0.6\pm k$ ($0.4\pm$ mile) north of State Route 95 is adequate, therefore no improvements are recommended for this section.

Section VII (Length 4.5±k 2.8± miles) begins 0.6±k (0.4± mile) north of State Route 95 and ends near Westover Drive in Oak Ridge. The typical cross section proposed for the portion from the beginning of the study section to near Wisconsin Avenue consists of 2 @ 7.2m (24') traffic lanes, a 15m (48') median, 2@ 3.6m (12') shoulders and a minimum of 45m (250') right-of-way. This section will transition at the end of the study to a typical consisting of 4 @ 3.6m (12') traffic lanes, 2 @ .6m (2') curbs and gutters, 2 @ 3m (10') shoulders and 2 @ 3m (10') grass strips and 28m (92') of right-of-way. The improvement will end at the Historic Guard House located near Westover Drive. The widening varies from side to side to avoid encroachment on wetlands and channel changes to East Fork Poplar Creek. A new structure is proposed over East Fork Poplar Creek. Care should be taken to avoid Scott Cemetery which is located on the south side of the subject route across from the Wisconsin Avenue intersection and the TVA tower that is located to the north just west of the juncture.

This 2.8t miles of the subject route passes thru rural property owned by the Department of Energy and a portion of the adjacent land is utilized as the Oak Ridge Wildlife Management Area. The median templates has been chosen partly because of the route length and there does exist a minimal number of recreational and access roads/trails throughout the study section presenting turning desires. The short 4-lane template has been chosen to provide turning opportunities at local roads that intersect the study route toward the end of the project, to better facilitate transitioning into the existing roadway

and to avoid adverse apacts to the historical g and houses at the end terminus.

The following is a list of levels of service for each study section.

	Existin	q Route	Proposed Route
	1995	2015	1995 2015
Section I	E	F	в р
Section II	E	F	B D
Section III	E	F	B D
Section IV	C	E	No Work Proposed
Section V	D	F	C E
Section VI	В	D	C E No Work Proposed
Section VII	D	E	B D

DISPOSITION OF EXISTING ROUTE

N/A

Item	Existing	Proposed Section I
Functional Class	Rural and Urban Principal Arterial	Rural Principal Arterial
		NHS
System Class	NHS	NHO
Length (Kilometers)	16.10± k	1.4± k
Length (Miles)	10.0 ± mi.	0.9± mi.
Cross Section (Meters) 2 - 4 Lane	25.2 m/ 30 m
Cross Section (Feet)	2 - 4 Lane	84'/100'
Present ADT (1995)	12,700 - 16,030	13,210 - 13,300
Future ADT (2015)	20,330 - 25,620	21,100 - 21,140
DHV	2,033 - 2,562	2,110 - 2,124
% Trucks	4%	4%
Estimated Right-of-Wa Acquisition (Hectares		0
Estimated Right-of-Wa Acquisition (Acres)	ıy	0
Estimated Right-of-Wa	у	0
Tracts Affected		V
Estimated Family Displacements		0
Estimated		0
Business Displacement	S	0
Estimated Non-Profit Displaceme	ents	0

Estimated Right-of-Wa	y Cost	\$ 100,000 *
Estimated Utility Cos	st	
Reimbursable		\$ 20,000
Estimated Utility Cos	st	\$ 350,000
Non-Reimbursable		
Estimated Construction	on Cost	\$1,850,000
Estimated Preliminary	?	\$ 170,000
Engineering Cost		
Total Estimated Projet *Estimate for constru	ect Cost action and slope ease	\$2,490,000 ments.

Item	Proposed Section II	Proposed Section III
Functional Class	Rural Principal Arterial	Rural and Urban Principal Arterial
System Class	NHS	NHS
Length (Kilometers)	3,7± k	2.6± k
Length (Miles)	2.3± mi	1.6± mi.
Cross Section (Meters) 2 @ 7.2m/25.2m/45m	2@ 7.2m/25.2m/45m
Cross Section (Feet)	2 @ 24'/84'/150'	20 24'/84'/150'
Present ADT (1995)	13,460 - 14,180	12,930 - 14,180
Future ADT (2015)	21,500 - 22,660	20,660 - 22,660
DHV	2,150 - 2,266	2,066 - 2,266
% Trucks	48	4%
Estimated Right-of-Wa	v	
Acquisition (Hectares	оби при	5.75± HA
Estimated Right-of-Wa Acquisition (Acres)	Y 17.19±	14.22±
Estimated Right-of-Wa	Y	
Tracts Affected	33	1
Estimated	10	0
Family Displacements Estimated	12	
Business Displacement	s 3	0
Estimated		
Non-Profit Displaceme	nts 1	0
Estimated Right-of-Wa	v Cost \$1.820.000	\$ 105,000
Estimated Utility Cos		0 103/000
Reimbursable	0	\$ 15,000
Estimated Utility Cos		
Non-Reimbursable	\$ 695,000	\$ 40,000
Estimated Construction		\$8,925,000
Estimated Preliminary Engineering Cost	\$ 325,000	\$ 810,000
Pudineering Cost	\$ 325,000	\$ 610,000
Total Estimated Project	ct Cost \$6,430,000	\$9,895,000

<u>Item</u>	Proposed <u>Section IV</u> Urban Principal	Proposed Section V Urban Principal Arterial
Functional Class	Arterial	Arterial
System Class	NHS	NHS
Length (Kilometers)	1.6± k	0.6± k
Length (Miles)	1.0± mi.	0.4± mi.
	13.4m/17m/90m (Ex.)	2 @ 7.2m/25.2m/45m
Cross Section (Meters	15.8m/90m(Ex.)	2 4 / 2211/ 23 2 211/ 2311
Cross Section (Feet)	44'/56'/300' (Ex.) 52'/300'(Ex.)	2 @ 24'/84'/150'
Present ADT(1995)	12,930	16,030
Future ADT(2015)	20,660	25,620
DHV	2,066	2,562
% Trucks	48	4%
Estimated Right-of-Wa	ay	0
Acquisition (Hectare: Estimated Right-of-Wa	s/Acres) =	
Tracts Affected	ay	0
Estimated		0
Family Displacements		<u> </u>
Estimated	■ (1.00)	0
Business Displacemen	ts	
Estimated Non-Profit Displacem	onts	0
Non-Profit Displacem	enca	
Estimated Right-of-W	av Cost	\$ 0
Estimated Utility Co.	st	T. A.
Reimbursable		\$ 0
Estimated Utility Co.	st	\$ 0
Non-Reimbursable		
Estimated Constructi	on Cost	\$ 605,000
Estimated Preliminar	y	A FE 000
Engineering Cost		\$ 55,000
Total Estimated Proj	ect Cost	\$ 660,000

^{*}See Proposed Improvement Item

Item	Proposed Section VI	Proposed Section VII
	Urban Principal	Urban Principal
Functional Class	Arterial	Arterial
		ALL DOLLUL
System Class	NHS	NHS
		,
Length (Kilometers)	1.6± k	4.6± k
22 220 220 22 A		
Length (Miles)	1.0± mi.	2.8± mi.
32 90 8	207.2m/25.6m/90m(Ex.)	21.6m/28m
Cross Section (Meters)	10.9m/22.5m/90m(Ex.)	207.2m/36.6/75m
<u>u</u> es e	2@24'/84'/300'(Ex.)	72'/92'
Cross Section (Feet)	36'/74'/300'(Ex.)	2@24'/120'/250'
_ *		
Present ADT(1995)	12,700 - 16,030	12,700
Western Special Co.		
Future ADT(2015)	20,330 - 25,620	20,330
DHV	2 022 2 502	0.022
DIII	2,033 - 2,562	2,033
% Trucks	4%	4%
	- 10	70
Estimated Right-of-Way		
Acquisition (Hectares)	*	22.66± HA
Estimated Right-of-Way		22:001 114
Acquisition (Acres)		56.0±
Estimated Right-of-Way		33.32
Tracts Affected		2
Estimated		
Family Displacements		0
Estimated		
Business Displacements		0
Estimated		
Non-Profit Displacement	.s	0
Estimated Right-of-Way	Cost	\$ 590,000
Estimated Utility Cost		
Reimbursable		\$ 0
Estimated Utility Cost		
Non-Reimbursable		\$ 375,000
Estimated Construction	Cost	\$5,810,000
Estimated Preliminary		
Engineering Cost		\$ 530,000
Motel netters and	a	
Total Estimated Project		\$7,305,000
*See Proposed Improveme	nt Item.	

Item	Proposed <u>Total</u>	
	Rural and Urban	
Functional Class	Principal Arterial	
System Class	NHS	
Length (Kilometers)	16.10± k	· · ·
Length (Miles)	10.0± mi.	
Cross Section (Meters)	4 - 5 Lane	
Cross Section (Feet)	4 - 5 Lane	
Present ADT(1995)	12,700 - 16,030	
Future ADT(2015)	20,330 - 25,620	
DHV	2,033 - 2,562	
% Trucks	4%	
5 11 40/10		
Estimated Right-of-Way Acquisition (Hectares)	35.37± HA	
Estimated Right-of-Way Acquisition (Acres)	87.41±	
Estimated Right-of-Way Tracts Affected	36	
Estimated Family Displacements	12	
Estimated Business Displacements	3	
Estimated Non-Profit Displacements	1	
AIVA A LVA LO DESPACEMENTS		
Estimated Right-of-Way Cost Estimated Utility Cost	\$ 2,615,000	
Reimbursable	\$ 35,000	
Estimated Utility Cost Non-Reimbursable	\$ 1,460,000	
Estimated Construction Cost	\$20,780,000	
Estimated Preliminary Engineering Cost	\$ 1,890,000	
Total Estimated Project Cost	\$26,780,000	

CHECK LIST OF DETERMINANTS FOR LOCATION STUDY

սբյ	If any of the following facilities or ESE categories are lethin the project area or corridor, place an "x" in the posite the item. Where more than one alternate is to be considered its letter designation in the blank.	blank
1.	Agricultural land usage	
2.	Airport (existing or proposed)	
3.	Commercial area, shopping center	<u>x</u>
4.	Floodplains	Χ
5.	Forested land	<u> </u>
6.	Historical, cultural, or natural landmark	K
7.	Industrial park, factory	<u>K</u>
8.	Institutional usages a. School or other educational institution	ζ
	b. Church or other religious institution	ζ
	c. Hospital or other medical facility	ere stempor
	d. Public building, e.g., fire station	
	e. Defense installation	
9	Recreational usages a. Park or recreational areax	
	b. Game preserve or wildlife areax	
10.	Residential establishment	
11.	Population: 27,310 Urban area, town, city, or communityOak Ridgex	
12.	Waterway, lake, pond, river, stream, spring X (Permit required: Coast Guard X Section 404 X TVA Section 26a review X NPDES X Aquatic Resource Alteration Permit)	
13.	Other Cemetery X	
14.	Location coordinated with local officials	
15.	Railroad Crossings	
16.	Hazardous Material Site.(U.G.T.)x	

ROUTE_	State	Route 58/95	_ALTERNATE		SECTION		
REGION	I	COUNTY_	Roane	P	ROJECT NO.		
LOCATI	ON:	FROM: 1-40	0				
		Springs Road				***	1 = 7 52
		• • • • • • • • • • •					
		KS					
		LASSIFICATION					
MINIM	UM DESI	GN SPEED			65 kmh	(40 mph)
ACCES	S CONTR	OL			N/A		
MAXIM	UM CURV	E			Existi	ng	
MAXIM	UM GRAD	E			Existi	ng	
MINIM	UM STOP	PING SIGHT DI	STANCE		Existi	ng	
SURFA	CE WIDI	H			2 @7.2	m (24')	
NUMBE	R OF LA	NES			4		
		DER WIDTH					
		. <u></u> [
MINIM	UM RIGH	IT OF WAY			*30m (100')Ex.	
		N					
		sement may be					
	1.00						

ROUTE State Route 58/95 ALTERNAT	ESECTIONII
REGION I COUNTY Roan	e PROJECT NO
LOCATION: FROM Poplar Springs R	oad
.TO 0.6±k (0.4± mile) Southwest	of Clinch River
19 <u>95</u> ADT	
2015 ADT	22,175
PERCENT TRUCKS	4%
DHV	2,217
FUNCTIONAL CLASSIFICATION	Rural Principal Arterial
MINIMUM DESIGN SPEED	100 kmh (60 mph)
ACCESS CONTROL	N/A
MAXIMUM CURVE	4° - 45' (SE:0.08)
MAXIMUM GRADE	3%
MINIMUM STOPPING SIGHT DISTANCE	160m - 200m (525-650')
SURFACE WIDTH	2 @ 7.2m (24')
NUMBER OF LANES	4
USABLE SHOULDER WIDTH	2 @ 3.6m (12')
MEDIAN WIDTH	3.6m (12') Turn Lane
MINIMUM RIGHT OF WAY	* 45m (150')
SIGNALIZATION	N/A
REMARKS: *Actual right-of-way to be	determined by slope limits.

ROUTE State Route 58/95 ALTERNATE SECTION 111
REGION I COUNTY Roane PROJECT NO
LOCATION: FROM 0.6±k (0.4± mile) South of the Clinch River
TO 0.5±k (0.3± mile) North of Perimeter Road
19 <u>95</u> ADT
2015 ADT21,660
PERCENT TRUCKS4%
DHV2,166
FUNCTIONAL CLASSIFICATION Rural and Urban Principal Arterial
MINIMUM DESIGN SPEED
ACCESS CONTROLN/A
MAXIMUM CURVE4°45'(SE:0.08)
MAXIMUM GRADE3%
MINIMUM STOPPING SIGHT DISTANCE 160m - 200m (525 - 650')
SURFACE WIDTH 2 @ 7.2m (24')
NUMBER OF LANES4
USABLE SHOULDER WIDTH 2 @ 3.6m (12')
MEDIAN WIDTH
MINIMUM RIGHT OF WAY
SIGNALIZATION
REMARKS: *A barrier rail will be included in the median from the beginning of the study section to west of Perimeter Road. From Perimeter Road to the end terminus the barrier rail will be excluded from the median. **Actual right-of-way to be determined by slope limits.
"ACCURE LEGITO OF HOLES

ROUTE_ State	Route 58/95	_ALTERNATE	SECTION_	IV Excluded
REGIONI	COUNTY	Roane	PROJECT N	0
LOCATION: F	FROM 0.6±k (*0	.3t mile) Nort	h of Perimete	r Road
TOState	Route 327 (B	lair Road)		The second second
19 <u>95</u> ADT		12.9	30	and the second second
PERCENT TRUC	CKS	48		
DHV	• • • • • • • • • • •	2,06	6	Mary day to the control of the contr
FUNCTIONAL C	LASSIFICATION	Urba	n Principal A	rterial
MINIMUM DESI	GN SPEED	Exis	ting	
ACCESS CONTR	ROL	Exis	ting	
MAXIMUM CURV	Æ	Exis	ting	Accessed to the second
MAXIMUM GRAD	DE	Exis	ting	
MINIMUM STOP	PING SIGHT DIS	STANCE Exis	ting	
SURFACE WIDT	H	Exis	ting	
NUMBER OF LA	NES	Ехів	ting	The second secon
USABLE SHOUL	DER WIDTH	Exis	ting	
MEDIAN WIDTH		Exis	ting	
MINIMUM RIGH	T OF WAY	Exis	ting	
SIGNALIZATIO	N	N/A		
REMARKS: No	work is propo	sed for this	section.	
		1		

				SECTION V
REGION	ı <u> </u>	COUNTY	Roane	PROJECT NO
LOCATI	ON: F	ROM State R	oute 327 (Blair Road)
T O	0.8±k	(0.5± mile) S	outhwest o	f State Route 95
19 <u>95</u> #	ADT			16,030
2015 F	DT			25,620
PERCEN	TRUC	KS		4%
DHV				2,562
FUNCT	ONAL C	LASSIFICATION		Urban Principal Arterial
MINIM	M DESI	GN SPEED		100km (60 mph)
ACCESS	S CONTR	OL		N/A
MAXIM	UM CURV	Œ		4° - 45' (SE: 0.08)
MIXAM	UM GRAI)E		3%
				160m - 200m (525 - 650')
				2 @ 7.2m (24')
NUMBE	R OF L	NES	• • • • • • • • • • • • • • • • • • • •	4
USABL	E SHOUI	LDER WIDTH		2 @ 3.6m (12')
				3.6m (12') Barrier Rail
MINIM	UM RIGI	HT OF WAY		* 45m (150')
				N/A
				determined by slope limits.
8				

ROUTE_Sta	te Route 58/95	_ALTERNATE	SECTION_	VI Excluded
REGION	ICOUNTY	Roane	PROJECT N	0
LOCATION:	FROM 0.8±k (0.	5± mile) South	of State Rou	te 95
TO0.6	<u>tk (0.4± mile)</u>	North of State	Route 95	
19 <u>95</u> ADT		14,3	65.	e _a contra
2015 ADT	• • • • • • • • • • • • • • • • • • • •	22,9	80	
	ucks			
DHV	• • • • • • • • • • • • • • • • • • • •	2,29	8	
FUNCTIONAL	CLASSIFICATION	Urba	n Principal A	rterial
MINIMUM DES	SIGN SPEED	Exis	ting	
ACCESS CONT	rol	Exis	ting	
	RVE			
MAXIMUM GRA	ADE	Exis	ing	
MINIMUM STO	OPPING SIGHT DIS	STANCEExist	ing	
SURFACE WID	отн	Exist	ing	- attended
NUMBER OF L	ANES	Exist	ing	
USABLE SHOU	LDER WIDTH	Exist	ing	
MEDIAN WIDT	Н	Exist	ing	- 11.2
MINIMUM RIG	HT OF WAY	Exist	ing	
SIGNALIZATI	ON	Exist	ing	The state of the s
REMARKS: T	his section is	excluded from	the project.	. —

				V/

ROUTE_	Sta	te Rou	te 58/95 P	LTERNAT	E	section vii		
REGION		1	COUNTY_	Roan	е	_PROJECT NO		
LOCATIO	ON:	FROM_	0.6±k (0.4±	mile)	North of	State Route 95		
TO	Nea	r West	over Drive	in Oak	Ridge			
								<u></u> .
2015 A	DT	• • • • • •			20,330			
PERCEN:	r Tr	ucks			48			
DHV	• •	• • • • • •			2,033	April 1		
						rincipal Arteri		
UMINIM	M DE	SIGN S	PEED		100km (60 mph)	C,	EG - RO-T5-L
MAXIMU	M CU	RVE			4° 45'	(SE:0.08)		
MAXIMUI	M GR	ADE			3%			
MINIMU	M ST	OPPING	SIGHT DIST	ANCE	160m -	200m (525 - 650	()	
SURFACI	e WI	DTH			2 @ 7.2	m (24')		
NUMBER	OF :	LANES.			4			
USABLE	SHO	ULDER 1	VIDTH		2 @ 3.6	m (12')		
MEDLAN	WID	rh			15m (48	′)		
MINIMUN	1 RI	GHT OF	WAY		* 75m (250′)		
SIGNALI	ZAT:	ION			N/A			
<u>Transit</u> lanes w	ion vith	from f	our lane d	ivided s (28m-	section 92') rig	ned by slope li at end of proje ht-of-way to av	ct to	four
roadway				percy a	nd to tr	ansition into e	XISC11	114

COST DATA SHEET SECTION I

PROJECT: State Route 58/95, From I-40 to Poplar Springs Road, Roane County	
LENGTH: 1.4± k (0.9± mi) CROSS SECTION: 25.2m/30m(8	4'/100')
Right-of-Way	
Land, Improvements, and Damages (0 Hectares) (0 Acres)\$	100,000
Incidentals.(0 Tracts)\$ Relocation Payments (0 Residences)\$ (0 Businesses) (0 Non-Profits)	A September
Total Right-Of-Way Cost\$	100,000*
Utility Relocation	
Reimbursable\$ Non-Reimbursable\$	20,000 350,000
Total Adjustment Cost\$	370,000
Construction	
Clear and Grubbing. \$ Earthwork. \$ Pavement Removal. \$ Drainage. \$ Structures. \$ Railroad Crossing. \$ Paving. \$ Retaining Walls. \$ Maintenance of Traffic. \$ Topsoil. \$ Seeding. \$ Sodding. \$ Signing. \$ Signalization. \$ Fence. \$ Guardrail. \$ Rip Rap or Slope Protection. \$ Other Const. Items (8.5%). \$ Mobilization. \$ 10% Eng. & Cont. \$ Total Construction Cost. \$1	170,000
Preliminary Engineering (10%)\$	170,000
TOTAL SECTION COST\$2, *Estimate for construction and slope easements.	490,000

COST DATA SHEET SECTION II

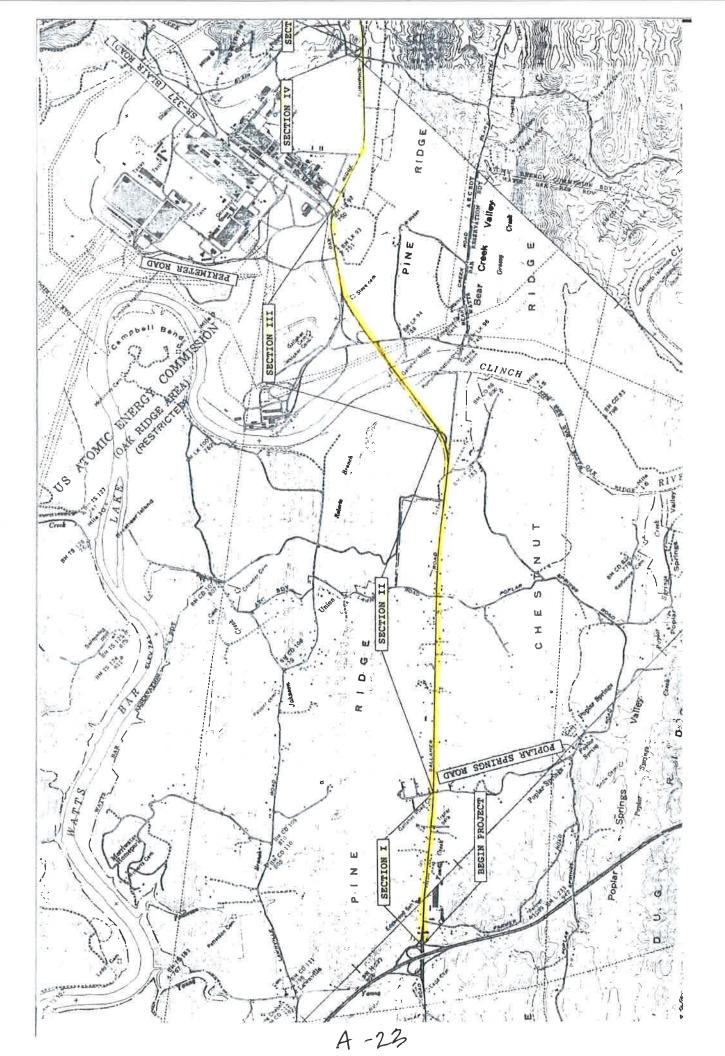
PROJECT: State Route 58/95, From Poplar Springs Road to 0.6±k
(0.4± mile) South of Clinch River 207.2m/25.2m/45m
2017 (20 20 10 10 10 10 10 10 10 10 10 10 10 10 10
LENGTH: 3.7± k (2.3± mi) CROSS SECTION: (2@ 24'/84'/150')
Right-of-Way
Land, Improvements, and Damages (6.96 Hectares) (17.19 Acres)\$1,378,000
Incidentals.(33 Tracts)\$ 94,000 Relocation Payments (12 Residences)\$ 348,000 (3 Businesses) (1 Non-Profits)
Total Right-Of-Way Cost\$1,820,000
Utility Relocation
Reimbursable\$ 0 Non-Reimbursable\$ 695,000
Total Adjustment Cost\$ 695,000
Construction
Clear and Grubbing\$ 25,000
D
Drainage \$ 260,000
Structures N/A
Structures N/A
Railroad Crossing\$ N/A
Paving
Potaining Walls
Gigning
Cionalization
Fence MA
Cuardrail
Pin Pan or Slope Protection
Other Const. Items (8.5%)
10% Eng. & Cont 325,000
Total Construction Cost\$3,590,000
Preliminary Engineering (10%)\$ 325,000
TOTAL SECTION COST\$6,430,000

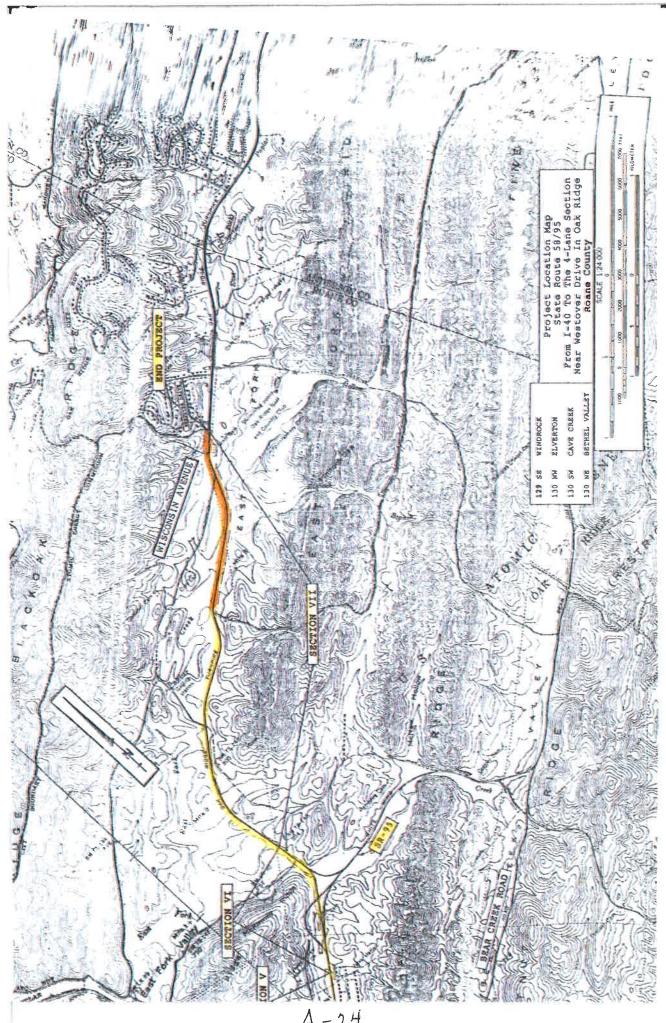
COST DATA SHEET SECTION III

PROJECT: State Route 58/95, From 0.6±k (0.4± mile) South of C	linch
River to 0.5±k (0.3± mile) North of Perimeter Road	
2@7.2m/25.8	
LENGTH: 2.6± k (1.6± miles) CROSS SECTION: (2@ 24'/84'	
Right-of-Way	and the second
Tond Tondanaments and Market A P REL Machanas	
Land, Improvements, and Damages (5.75± Hectares) (14.22± Acres)\$	102,000
Incidentals.(33 Tracts)\$	3,000
Relocation Payments (0 Residences)\$	
(O Businesses)	N/A
(0 Non-Profits)	
Total Right-Of-Way Cost\$	105,000
Utility Relocation	
Reimbursable\$	15,000
Non-Reimbursable\$	40,000
NOM-NCIMBUIDIDIC: ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! ! !	101000
Total Adjustment Cost\$	55,000
Construction	
Clear and Grubbing\$	35,000
Earthwork\$	940,000
Pavement Removal\$	30,000
Drainage\$	280,000
Structures\$3	
Railroad Crossing\$	N/A
Paving\$1	,655,000
Retaining Walls\$	40,000
Maintenance of Traffic\$	100,000
Topsoil\$	22,000
Seeding\$	18,000
Sodding\$	10,000
Signing\$	25,000
Signalization\$	N/A
Fence\$	15,000
Guardrail\$	390,000
Rip Rap or Slope Protection\$	25,000
Other Const. Items (8.5%)\$	635,000
Mobilization\$ 10% Eng. & Cont\$	
Total Construction Cost\$8	
·	
Preliminary Engineering (10%)\$	810,000
TOTAL SECTION COST\$9	,895,000

COST DATA SHEET SECTION V

and a post a 227 (Blair Road)	to
PROJECT: State Route 58/95, From State Route 327 (Blair Road): 0.8±k (0.5± Mile) South of State Route 95	
261.5m/52.5m	
LENGTH: 0.6± k (0.4± miles)CROSS SECTION: (2@ 24'/84')	/150')
	المراجعين المرواي
Right-of-Way	
Land, Improvements, and Damages (0 Hectares)	
(U ACIES)	N/A
Incidentals.(0 Tracts)	N/A N/A
Relocation Payments (0 Residences)	N/A
(0 Businesses) (0 Non-Profits)	
	4
Total Right-Of-Way Cost\$	N/A
Utility Relocation	
Reimbursable\$	N/A
Non-Reimbursable\$_	
	/-
Total Adjustment Cost\$	N/A
Construction	
Clear and Grubbing\$	5,000
Farthwork	60,000
Davement Removal	10,000
Drainage	75,000 N/A
Structures	N/A N/A
Pailroad Crossing	225,000
Paving\$	N/A
Retaining Walls	20,000
Maintenance of Traffic	3,000
Topsoil\$ Seeding\$	2,000
Seeding	3,000
Signing	2,000
Signalization	N/A
Pondo	N/A
Cupydrail	75,000
Pin Pan or Slone Protection	N/A
Other Const. Items (8.5%)	45,000
Makilian+inn	25,000
10% Eng. & Cont\$	55,000
	605,000
Total Construction Cost\$	0057000
Preliminary Engineering (10%)\$	55,000
TOTAL SECTION COST\$	660,000
Per L	





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