

SCOPING MEETING AGENDA

June 21, 1999

**NC 86 (S. Columbia Street) from SR 1906 (Purefoy Road)
to SR 1904 (Mason Farm Road)
Orange County
TIP Project No. U-624**

INTRODUCTION

PROJECT DESCRIPTION

Widen existing roadway to provide wider travel lanes and bike lanes on both sides of the road and a sidewalk on the eastern side of NC 86.

Project Length: 0.5 miles (0.8 kilometers)

PURPOSE OF PROJECT

Improve traffic service to UNC Hospital, the University of North Carolina at Chapel Hill, and the Chapel Hill Urban Area

Provide safer conditions for bicyclists and pedestrians along NC 86

SCHEDULE

Document Schedule: EA – September 2000

FONSI – May 2001

Project Schedule: Right of Way – Federal Fiscal Year (FFY) 2003

Construction – FFY 2004

EXISTING TRANSPORTATION FACILITIES

PROPOSED IMPROVEMENTS

Widen pavement to include two 12-foot (3.6-meter) travel lanes and 4-foot (1.2-meter) outside bike lanes on both sides of NC 86

Construct a 5-foot (1.5-meter) sidewalk on the eastern side of NC 86

ENVIRONMENTAL FACTORS

COST ESTIMATES

	TIP Cost Estimate	Current Cost Estimate
Construction:	\$1,250,000	\$1,500,000
Right of Way:	<u>\$1,500,000</u>	<u>\$1,500,000</u>
Total Cost:	\$2,750,000	\$3,000,000

COMMENTS / QUESTIONS

PROJECT SCOPING SHEET

Date May 17, 1999
Revision Date _____
Project Development Stage
Programming _____
Planning X
Design _____

TIP # U-624
State Project # 8.1501801
F.A. Project # STP-86(2)
Division 7
County Orange
Route(s) NC 86 (S. Columbia St.)
Functional Classification Urban Principal Arterial - Other
Length 0.8 kilometers (0.5 miles)

Description of Project (including specific limits) and major elements of work:
NC 86 (S. Columbia Street) – from SR 1906 (Purefoy Road) to SR 1904 (Mason Farm Road) –
widen existing roadway to provide wider travel lanes, bike lanes on both sides of the road, and a
sidewalk on the eastern side of NC 86.

Purpose of Project To improve traffic service to UNC Hospital, the University of North Carolina
at Chapel Hill, and the Chapel Hill Urban Area and to provide safer conditions for bicyclists and
pedestrians along NC 86.

Project Schedule:	Right of Way	Federal Fiscal Year (FFY) 2003
	Construction	FFY 2004

Type of environmental document to be prepared: Environmental Assessment

Environmental Study Schedule: EA due September 2000, FONSI due May 2001

Will there be special funding participation by municipality, developers, or other?
Yes _____ No X

If yes, by whom and amount: (\$) _____, or _____ (%)

How and when will this be paid? _____

PROJECT SCOPING SHEET

Type of Access Control: Full _____ Partial _____ None X

Number of Interchanges 0 Grade Separations 0

Stream Crossings none

Typical Section:

Existing NC 86 (S. Columbia St.) is currently a two-lane facility with unpaved shoulders within the project limits. Travel lanes are 3.3 to 3.6 meters (11 to 12 feet) wide. Turn lanes are present at Mason Farm Road (SR 1904). A 1.5-meter (5-foot) wide sidewalk is located east of NC 86 between Chase Avenue and Mason Farm Road (SR 1904). The right of way width varies between 15 and 18 meters (50 and 60 feet).

Proposed A total pavement width of 9.6 meters (32 feet) is proposed that will include two 3.6-meter (12-foot) travel lanes and 1.2-meter (4-foot) outside bike lanes on both sides of the road. A 1.5-meter (5-foot) sidewalk will be provided east of NC 86 immediately adjacent to the curb. A 1.2-meter (4-foot) berm to the west and a 1.8-meter (6-foot) berm to the east of the roadway are proposed. Additional right of way may have to be obtained at intersections where turning lanes may be provided. (Please see enclosed figure of proposed typical section.)

Traffic (ADT): Please see attached sheets.

Design Standards Applicable: AASHTO X 3R _____

Design Speed: 65 km/h (40 mph)

Current Cost Estimate:

Construction Cost (including engineering and contingencies)	\$ 1,500,000
Right of Way (including relocation, utilities, and acquisition)	\$ 1,500,000*
Force Account Items	_____
Preliminary Engineering	_____
TOTAL PLANNING COST ESTIMATE	\$ 3,000,000

*TIP Cost Estimate

TIP Cost Estimate:

Construction	\$ 1,250,000
Right of Way	\$ 1,500,000
TOTAL TIP COST ESTIMATE	\$ 2,750,000

PROJECT SCOPING SHEET

List any special features, such as railroad involvement, which could affect cost or schedule of project:

ITEMS REQUIRED (X)	COMMENTS	COST
Estimated Costs of Improvements :		
<input checked="" type="checkbox"/>	Pavement	
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> Surface (Resurface).....	\$ 122,664
	Base.....	
	Milling & Recycling.....	
	Turnouts.....	
	Shoulders	
	Paved.....	
	Earthen.....	
<input checked="" type="checkbox"/>	Earthwork.....	\$ 245,000
	Subsurface Items.....	
<input checked="" type="checkbox"/>	Subgrade and Stabilization.....	\$ 18,504
<input checked="" type="checkbox"/>	Drainage (list any special items).....	\$ 150,000
	Sub-Drainage.....	
	Structures	
	Bridge Rehab.....	
	New Bridge.....	
	Remove Bridge.....	
	New Culvert.....	
	Culvert Extension.....	
	Retaining Walls.....	
	Noise Walls.....	
	Other Misc. (Detour Bridge).....	
<input checked="" type="checkbox"/>	Concrete Curb & Gutter.....	\$ 63,444
<input checked="" type="checkbox"/>	Concrete Sidewalk.....	\$ 43,950
<input checked="" type="checkbox"/>	Retaining Walls.....	\$ 53,550
	Fencing	
	W.W.....	
	C.L.....	
<input checked="" type="checkbox"/>	Erosion Control.....	\$ 16,750
<input checked="" type="checkbox"/>	Utilities.....	\$ 60,000
	Lighting.....	
<input checked="" type="checkbox"/>	Traffic Control.....	\$ 35,000
	Signing	
	New.....	
	Upgraded.....	
	Traffic Signals	
	New.....	
	Revised.....	
	RR Signals	
	New.....	
	Revised.....	
	With/without Arms.....	

PROJECT SCOPING SHEET

ITEMS REQUIRED (X)	COMMENTS	COST
<input type="checkbox"/> If 3R		
<input type="checkbox"/> Drainage Safety Enhancement.....		_____
<input type="checkbox"/> Roadside Safety Enhancement.....		_____
<input type="checkbox"/> Realignment for Safety Upgrade.....		_____
<input checked="" type="checkbox"/> Pavement Markings		
<input type="checkbox"/> Paint.....		_____
<input checked="" type="checkbox"/> Thermoplastic/Raised Pavement Markers.....		\$ 7,500
<input type="checkbox"/> Delineators.....		_____
<input type="checkbox"/> Other (clearing, grubbing, misc., and mob.)		\$ 489,000
CONTRACT COST Subtotal		\$ 1,305,362
Engineering & Contingencies		\$ 194,638
PE Costs		_____
Force Account		_____
CONSTRUCTION COST Subtotal		\$ 1,500,000
Right-of-Way		
Will contain within existing R/W?	Yes _____ No <input checked="" type="checkbox"/>	
Existing Width 15 to 18 meters (50 to 60 feet)		
New R/W needed _____ var. _____ Est. Cost		\$ 1,500,000*
Easements: Type _____	Estimated Cost	Width _____
Utilities		_____
Right-of-Way Subtotal		\$ 1,500,000*
Total Estimated Cost		\$ 3,000,000

*TIP Right of Way Cost Estimate

Prepared by: Alethia Farless Date 05/17/99

The above scoping has been reviewed and approved by:

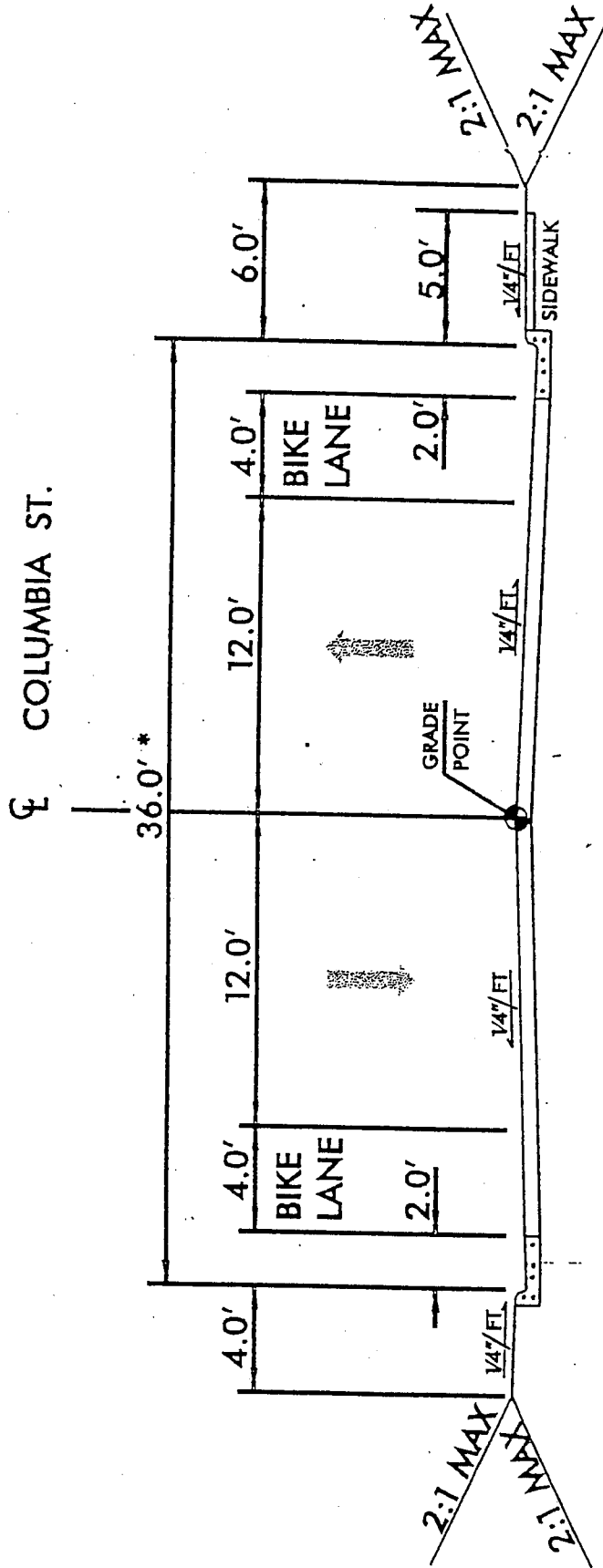
	<u>Init.</u>	<u>Date</u>		<u>Init.</u>	<u>Date</u>
Highway Design	_____	_____	B.O.T. Member	_____	_____
Roadway	_____	_____	Mgr Program & Policy	_____	_____
Structure	_____	_____	Chief Engineer- Precon	_____	_____
Design Services	_____	_____	Chief Engineer- Oper	_____	_____
Geotechnical	_____	_____	Sec Roads Officer	_____	_____
Hydraulics	_____	_____	Construction Branch	_____	_____
Loc. & Surveys	_____	_____	Roadside Environ.	_____	_____
Photogrammetry	_____	_____	Maintenance Branch	_____	_____
Prel. Est. Engr.	_____	_____	Bridge Maintenance	_____	_____
Plng & Environ.	_____	_____	Statewide Planning	_____	_____

PROJECT SCOPING SHEET

	<u>Init.</u>	<u>Date</u>		<u>Init.</u>	<u>Date</u>
Right of Way	_____	_____	Division Engineer	_____	_____
R/W Utilities	_____	_____	Bicycle Coordinator	_____	_____
Traffic Engr.	_____	_____	Program Development	_____	_____
Project Management	_____	_____	FHWA	_____	_____
County Manager	_____	_____	Dept. of Cult. Res.	_____	_____
City / Municipality	_____	_____	DENR	_____	_____

*If you are not in agreement with proposed project or scoping, note your proposed revisions or comments here:

PROPOSED TYPICAL SECTION



36' FACE TO FACE TYPICAL SECTION
* Pavement widening will be required at intersections for turn lanes.

NC 86 From SR 1906 (Purefoy Road) TO SR 1904 (Mason Farm Road)

Orange County
May, 1999

1999 Estimated ADT in Hundreds



Project U-624

Existing Network

LEGEND

DHV = Design Hourly Volume (%)

D = Directional Flow (%)

PM = PM Peak

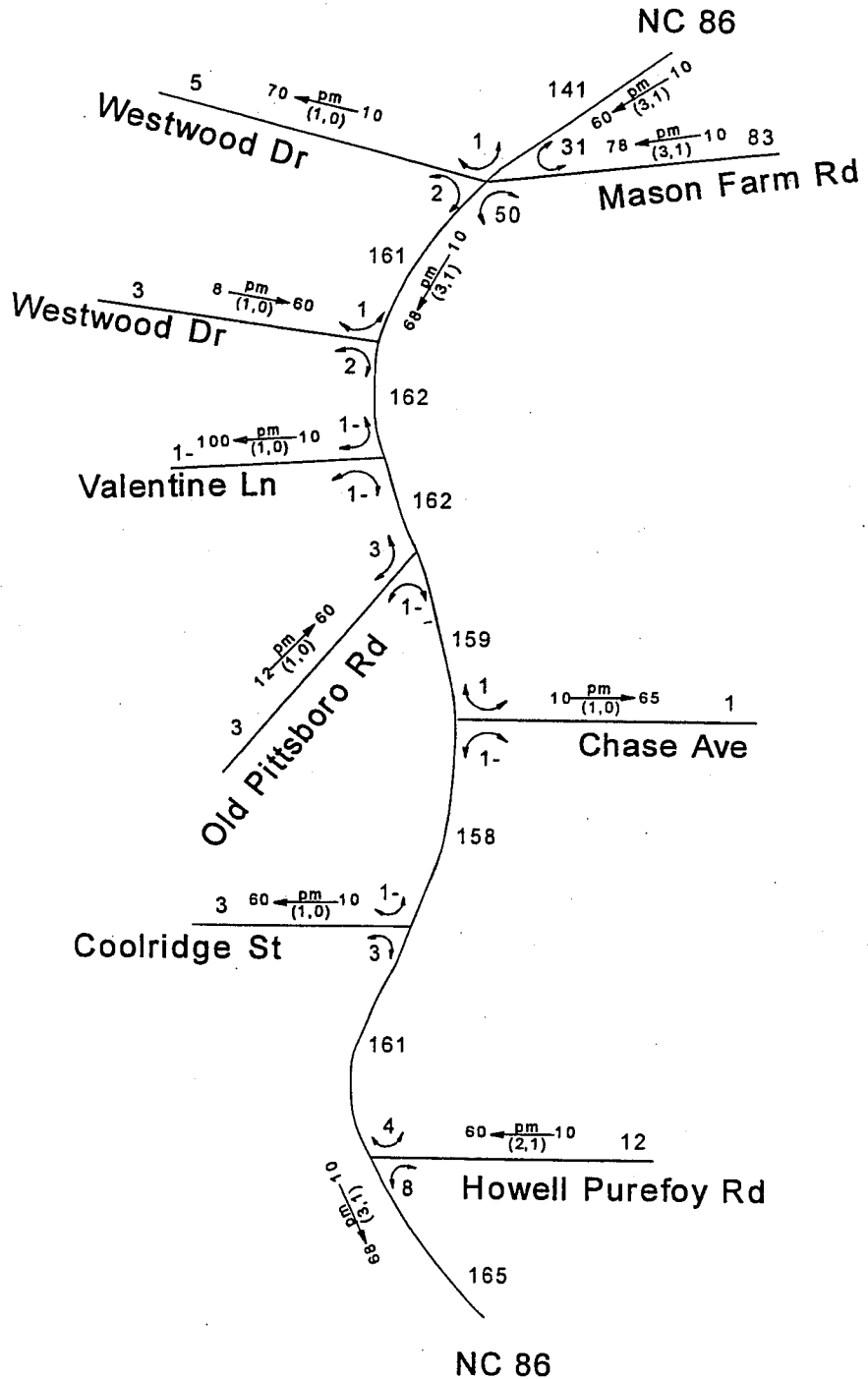
→ Direction of D

(x,y) Dual Trucks, TTST (%)

$10 \frac{pm}{(x,y)} \rightarrow 60$

NOT TO SCALE

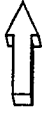
Notes: DHV & D if not shown are the same for the opposing leg.



NC 86 From SR 1906 (Purefoy Road) TO SR 1904 (Mason Farm Road)

Orange County
May, 1999

2025 Estimated ADT in Hundreds



Project U-624

Transportation Plan Network
(Includes transit)

LEGEND

DHV = Design Hourly Volume (%)

D = Directional Flow (%)

PM = PM Peak

→ Direction of D

(x,y) Dual Trucks, TTST (%)

10 $\xrightarrow{\text{pm}}$ 60
(x,y)

NOT TO SCALE

Notes: DHV & D if not shown are
the same for the opposing leg.

