

Bow-Concord I-93 Transportation Planning Study

**SCREENING SUMMARY
NO BUILD ALTERNATIVE**

The No Build Alternative is the do nothing option that is used for comparison to the build alternatives. The screening assumes no new facilities are constructed as part of the I-93 Project.

Category	Score					
						
Access		X				
Aesthetics			X			
Community Resources			X			
Community Vision		X				
Economic Vitality		X				
Historic and Archeological Resources			X			
Implementation					X	
Mobility	X					
Natural Environment		X				
Public Health		X				
Quality of Life		X				
Residential Neighborhoods		X				
Safety	X					
Support		X				
Transportation Choice		X				

<p>The No Build Alternative is required by NEPA for comparison purposes and therefore must be carried forward.</p>	<p>Reasonable</p>
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Bow-Concord I-93 Transportation Planning Study

DETAILED SCREENING NO BUILD ALTERNATIVE

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.		X			
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.		X			
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.		X			
Evaluate the access provided to and from tourist destinations.	X				
Comments: Congestion on I-93 would reduce access. Category Score		X			

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**DETAILED SCREENING
NO BUILD ALTERNATIVE**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .			X		
Evaluate the views <i>of I-93</i> from the adjacent communities.			X		
Evaluate the views of the Merrimack River.			X		
Evaluate the views from the Merrimack River.			X		
Evaluate whether the unique character of the Capital Region is complemented.		X			
Comments: No measurable impact. Category Score			X		

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No impacts. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
NO BUILD ALTERNATIVE**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.					
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.		X			
Evaluate the potential impacts on population and employment growth in the region.			X		
Comments: The No Build is not compatible with most community plans or visions. Category Score		X			

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.		X			
Evaluate the potential impacts to Concord's existing businesses and commercial districts.		X			
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.		X			
Evaluate the effects to anticipated economic initiatives in Bow.		X			
Evaluate the effects to anticipated economic initiatives in Concord.		X			
Evaluate the effects to anticipated economic initiatives in Pembroke.		X			
Evaluate the potential impacts to regional economic prospects.		X			
Comments: Congestion has a negative impact on economic vitality throughout the region. Category Score		X			

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**DETAILED SCREENING
NO BUILD ALTERNATIVE**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.			X		
Comments: No impacts. Category Score			X		

Implementation	Score				
					
Evaluate the cost.					X
Evaluate the ability to implement in phases over a period of time.					X
Evaluate the ability to maintain mobility and access during construction.					X
Comments: The No Build requires no implementation. Category Score					X

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.	X				
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.	X				
Evaluate the effectiveness to provide for the movement of goods and services in the region.		X			
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.		X			
Comments: Expected growth would substantially degrade mobility throughout the region. Category Score	X				

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**DETAILED SCREENING
NO BUILD ALTERNATIVE**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.		X			
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.			X		
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.			X		
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.		X			
Comments: The No Build provides no opportunity to alleviate existing negative impacts on the natural environment. Category Score		X			

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.			X		
Evaluate the effect on air quality post construction including mobile-source air toxins.		X			
Evaluate the effect on walkable communities.			X		
Evaluate the effect on drinking water quality and quantity.		X			
Comments: Congestion would degrade air quality in the future. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
NO BUILD ALTERNATIVE**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.		X			
Evaluate the effect on the Quality of Life for those working in the region.		X			
Evaluate the effect on the Quality of Life for those traveling through the region.	X				
Evaluate the effect on noise levels.		X			
Comments: Doing nothing would degrade the quality of life of the region by not addressing traffic congestion. Category Score		X			

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.		X			
Evaluate the effect on planned or developing residential neighborhoods.		X			
Comments: No Impacts. Category Score		X			

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.	X				
Evaluate the effectiveness to improve safety on I-89.	X				
Evaluate the effectiveness to improve safety on I-393.	X				
Evaluate the effectiveness to improve safety on local streets.		X			
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.		X			
Comments: The No Build would not address existing safety issues and increased traffic and congestion would be expected to make these safety issues much worse. Category Score	X				

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
NO BUILD ALTERNATIVE**

Support	Score				
					
Evaluate the support from the public in Bow.		X			
Evaluate the support from the public in Pembroke.		X			
Evaluate the support from the public in Concord.	X				
Evaluate the support from the public in the other communities in the Central NH Region.		X			
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.	X				
Evaluate the support from resource agencies.	X				
Evaluate the support from resource groups.		X			
Comments: There is opposition to doing nothing. Category Score		X			

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.			X		
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.			X		
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.			X		
Evaluate the effectiveness to expand bus service in the region.			X		
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.	X				
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.		X			
Evaluate the effectiveness to integrate all modes of transportation		X			
Comments: No provisions to help promote transportation choice. Category Score		X			

SCREENING SUMMARY

TRAVEL DEMAND MANAGEMENT ALTERNATIVE

The Travel Demand Management (TDM) Alternative proposes a variety of initiatives to decrease the demand on the transportation system without expanding the roadway network, these include:

- Ride Sharing
- Alternative modes (bus rail, etc.)
- Vanpools
- Shifting work hours
- Congestion pricing of tolls
- Tele-commuting
- Increased enforcement

Category	Score					
						
Access		X				
Aesthetics			X			
Community Resources			X			
Community Vision		X				
Economic Vitality		X				
Historic and Archeological Resources			X			
Implementation		X				
Mobility		X				
Natural Environment		X				
Public Health				X		
Quality of Life		X				
Residential Neighborhoods		X				
Safety		X				
Support		X				
Transportation Choice				X		

<p>The TDM Alternative is deemed reasonable because it is typically an alternative or a component of an alternative in an environmental document.</p>	<p>Reasonable</p>
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Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY

TRAVEL DEMAND MANAGEMENT ALTERNATIVE

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.		X			
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.		X			
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.		X			
Evaluate the access provided to and from tourist destinations.	X				
Comments: Congestion on I-93 would reduce access. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
TRAVEL DEMAND MANAGEMENT ALTERNATIVE

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .			X		
Evaluate the views <i>of I-93</i> from the adjacent communities.			X		
Evaluate the views of the Merrimack River.			X		
Evaluate the views from the Merrimack River.			X		
Evaluate whether the unique character of the Capital Region is complemented.			X		
Comments: No measurable impact. Category Score			X		

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No impacts. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY

TRAVEL DEMAND MANAGEMENT ALTERNATIVE

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.					
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.		X			
Evaluate the potential impacts on population and employment growth in the region.			X		
Comments: TDM is not compatible with most community plans or visions. Category Score		X			

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.		X			
Evaluate the potential impacts to Concord's existing businesses and commercial districts.		X			
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.		X			
Evaluate the effects to anticipated economic initiatives in Bow.		X			
Evaluate the effects to anticipated economic initiatives in Concord.		X			
Evaluate the effects to anticipated economic initiatives in Pembroke.		X			
Evaluate the potential impacts to regional economic prospects.		X			
Comments: Congestion has a negative impact on economic vitality throughout the region. Category Score		X			

SCREENING SUMMARY
TRAVEL DEMAND MANAGEMENT ALTERNATIVE

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.			X		
Comments: No impacts. Category Score			X		

Implementation	Score				
					
Evaluate the cost.		X			
Evaluate the ability to implement in phases over a period of time.		X			
Evaluate the ability to maintain mobility and access during construction.		X			
Comments: TDM strategies could be difficult to implement because of restrictions on the use of gas tax funds for other than roadway projects. Category Score		X			

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.		X			
Evaluate the effectiveness to provide for the movement of goods and services in the region.			X		
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.			X		
Comments: Expected growth would degrade mobility throughout the region. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY

TRAVEL DEMAND MANAGEMENT ALTERNATIVE

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.		X			
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.			X		
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.			X		
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.		X			
Comments: TDM provides little opportunity to alleviate existing negative impacts on the natural environment. Category Score		X			

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.			X		
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.				X	
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Reduced use of single passenger vehicles could improve public health. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
TRAVEL DEMAND MANAGEMENT ALTERNATIVE

Quality of Life	Score				
Evaluate the effect on the Quality of Life for those living in the region.		X			
Evaluate the effect on the Quality of Life for those working in the region.		X			
Evaluate the effect on the Quality of Life for those traveling through the region.	X				
Evaluate the effect on noise levels.		X			
Comments: TDM alone would degrade the quality of life for those in the region by not addressing traffic congestion. Category Score		X			

Residential Neighborhoods	Score				
Evaluate the effect on existing residential neighborhoods.			X		
Evaluate the effect on planned or developing residential neighborhoods.			X		
Comments: No Impacts. Category Score			X		

Safety	Score				
Evaluate the effectiveness to improve safety on I-93.	X				
Evaluate the effectiveness to improve safety on I-89.	X				
Evaluate the effectiveness to improve safety on I-393.	X				
Evaluate the effectiveness to improve safety on local streets.		X			
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.		X			
Comments: TDM would not correct existing safety issues and increased traffic and congestion would be expected to make these safety issues worse. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
TRAVEL DEMAND MANAGEMENT ALTERNATIVE

Support	Score				
					
Evaluate the support from the public in Bow.		X			
Evaluate the support from the public in Pembroke.		X			
Evaluate the support from the public in Concord.	X				
Evaluate the support from the public in the other communities in the Central NH Region.		X			
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.	X				
Evaluate the support from resource agencies.	X				
Evaluate the support from resource groups.		X			
Comments: There is opposition to implementing TDM alone.		X			
Category Score					

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.					X
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.					X
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.				X	
Evaluate the effectiveness to expand bus service in the region.					X
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.				X	
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.				X	
Evaluate the effectiveness to integrate all modes of transportation					X
Comments: TDM promotes the use of other modes of transportation.				X	
Category Score					

SCREENING SUMMARY
OPPORTUNITY CORRIDOR CONCEPT OPTION 1

The Opportunity Corridor Concept was developed by the City of Concord. Option 1 includes all elements of this concept, which proposes the following;

- Six Lanes on I-93
- Westerly shift of I-93
- Lower I-93 between Exits 13 & 15
- Reconfigure Exits 14 & 15
- Upgrade to Exit 12
- Upgrade to I-93/I-89 and Exit 1
- Extend Storrs Street north & south
- Local Connection to Fort Eddy Road
- Multi-modal center
- River Access

Category	Score					
						
Access				X		
Aesthetics				X		
Community Resources			X			
Community Vision				X		
Economic Vitality				X		
Historic and Archeological Resources			X			
Implementation		X				
Mobility					X	
Natural Environment			X			
Public Health				X		
Quality of Life					X	
Residential Neighborhoods				X		
Safety					X	
Support					X	
Transportation Choice				X		

Opportunity Corridor Option 1 is deemed Reasonable for further consideration.	Reasonable
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Bow-Concord I-93 Transportation Planning Study

DETAILED SCREENING OPPORTUNITY CORRIDOR CONCEPT OPTION 1

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.				X	
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.			X		
Evaluate the access provided to and from tourist destinations.					X
Comments: Access is improved by this alternative. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 1**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .		X			
Evaluate the views <i>of I-93</i> from the adjacent communities.				X	
Evaluate the views of the Merrimack River.				X	
Evaluate the views from the Merrimack River.				X	
Evaluate whether the unique character of the Capital Region is complemented.				X	
Comments: The views are improved by this alternative. Category Score				X	

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No impacts. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 1**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.				X	
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.				X	
Evaluate the potential impacts on population and employment growth in the region.				X	
Comments: This alternative is compatible with most community's plans or visions. Category Score				X	

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Concord's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.				X	
Evaluate the effects to anticipated economic initiatives in Bow.				X	
Evaluate the effects to anticipated economic initiatives in Concord.					X
Evaluate the effects to anticipated economic initiatives in Pembroke.				X	
Evaluate the potential impacts to regional economic prospects.				X	
Comments: This alternative would benefit the economies of the adjacent communities. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 1**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.		X			
Comments: The improvements could impact sensitive archeological resources.			X		
Category Score					

Implementation	Score				
					
Evaluate the cost.		X			
Evaluate the ability to implement in phases over a period of time.		X			
Evaluate the ability to maintain mobility and access during construction.		X			
Comments: Phasing of this alternative would be difficult and there would be disruption of traffic during construction.		X			
Category Score					

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.					X
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.					X
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.					X
Evaluate the effectiveness to provide for the movement of goods and services in the region.					X
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.				X	
Comments: Mobility would be substantially enhanced by this alternative.					X
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 1**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.				X	
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.			X		
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.			X		
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.		X			
Comments: The shifting of I-93 would provide a buffer for the Merrimack River. Category Score			X		

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.		X			
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.				X	
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Access to the river and other proposed pedestrian trails could improve public health. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 1**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.				X	
Evaluate the effect on the Quality of Life for those working in the region.					X
Evaluate the effect on the Quality of Life for those traveling through the region.					X
Evaluate the effect on noise levels.				X	
Comments: This alternative would improve the quality of life for those in the region by reducing traffic congestion and providing access to other community assets like the river.					X
Category Score					

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.				X	
Evaluate the effect on planned or developing residential neighborhoods.				X	
Comments: Neighborhoods would benefit from the reduced traffic on local streets.				X	
Category Score					

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.					X
Evaluate the effectiveness to improve safety on I-89.					X
Evaluate the effectiveness to improve safety on I-393.					X
Evaluate the effectiveness to improve safety on local streets.				X	
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.				X	
Comments: Existing deficiencies would be corrected with this alternative.					X
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 1**

Support	Score				
					
Evaluate the support from the public in Bow.				X	
Evaluate the support from the public in Pembroke.					X
Evaluate the support from the public in Concord.					X
Evaluate the support from the public in the other communities in the Central NH Region.				X	
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.					X
Evaluate the support from resource agencies.					X
Evaluate the support from resource groups.				X	
Comments: There is overall support for this alternative. Category Score					X

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.				X	
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.				X	
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.				X	
Evaluate the effectiveness to expand bus service in the region.				X	
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.				X	
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.			X		
Evaluate the effectiveness to integrate all modes of transportation				X	
Comments: This alternative promotes the use of other modes of transportation. Category Score				X	

SCREENING SUMMARY

OPPORTUNITY CORRIDOR CONCEPT OPTION 2

The Opportunity Corridor Concept was developed by the City of Concord. Option 2 proposes a reversible lane on I-93 and proposes the following;

- Five Lanes on I-93 (One Reversible)
- Westerly shift of I-93
- Lower I-93 between Exits 13 & 15
- Reconfigure Exits 14 & 15
- Upgrade to Exit 12
- Upgrade to I-93/I-89 and Exit 1
- Extend Storrs Street north & south
- Local Connection to Fort Eddy Road
- Multi-modal center
- River Access

Category	Score					
						
Access				X		
Aesthetics				X		
Community Resources			X			
Community Vision				X		
Economic Vitality				X		
Historic and Archeological Resources			X			
Implementation		X				
Mobility				X		
Natural Environment			X			
Public Health				X		
Quality of Life					X	
Residential Neighborhoods				X		
Safety				X		
Support					X	
Transportation Choice				X		

<p>Opportunity Corridor Option 2 is deemed Unreasonable because the expense to construct and operate a reversible lane is not justified for I-93 where the traffic volumes for peak and non-peak directions are not significantly different.</p>	<p>Unreasonable</p>
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Bow-Concord I-93 Transportation Planning Study

DETAILED SCREENING OPPORTUNITY CORRIDOR CONCEPT OPTION 2

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.				X	
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.			X		
Evaluate the access provided to and from tourist destinations.					X
Comments: Access is improved by this alternative. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 2**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .		X			
Evaluate the views <i>of I-93</i> from the adjacent communities.				X	
Evaluate the views of the Merrimack River.				X	
Evaluate the views from the Merrimack River.				X	
Evaluate whether the unique character of the Capital Region is complemented.				X	
Comments: The views are improved by this alternative. Category Score				X	

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No impacts. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 2**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.				X	
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.				X	
Evaluate the potential impacts on population and employment growth in the region.				X	
Comments: This alternative is compatible with most community's plans or visions. Category Score				X	

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Concord's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.				X	
Evaluate the effects to anticipated economic initiatives in Bow.				X	
Evaluate the effects to anticipated economic initiatives in Concord.					X
Evaluate the effects to anticipated economic initiatives in Pembroke.				X	
Evaluate the potential impacts to regional economic prospects.				X	
Comments: This alternative would benefit the economies of the adjacent communities. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 2**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.		X			
Comments: The improvements could impact archeological resources. Category Score			X		

Implementation	Score				
					
Evaluate the cost.		X			
Evaluate the ability to implement in phases over a period of time.		X			
Evaluate the ability to maintain mobility and access during construction.		X			
Comments: Phasing of this alternative would be difficult and there would be disruption of traffic during construction. There are long term operational costs that would be required. Category Score		X			

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.					X
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.				X	
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.				X	
Evaluate the effectiveness to provide for the movement of goods and services in the region.				X	
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.				X	
Comments: Mobility is improved for the peak traffic direction, but not for the non-peak traffic direction. I-93 has a peak/non-peak split of about 55%/45%. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 2**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.				X	
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.			X		
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.			X		
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.		X			
Comments: The shifting of I-93 would provide a buffer for the Merrimack River. Category Score			X		

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.		X			
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.				X	
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Access to the river and other proposed pedestrian trails could improve public health. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 2**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.				X	
Evaluate the effect on the Quality of Life for those working in the region.					X
Evaluate the effect on the Quality of Life for those traveling through the region.					X
Evaluate the effect on noise levels.				X	
Comments: This alternative would improve the quality of life for those in the region by reducing traffic congestion and providing access to other community assets like the river.					X
Category Score					

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.			X		
Evaluate the effect on planned or developing residential neighborhoods.			X		
Comments: No Impacts.			X		
Category Score					

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.			X		
Evaluate the effectiveness to improve safety on I-89.					X
Evaluate the effectiveness to improve safety on I-393.					X
Evaluate the effectiveness to improve safety on local streets.				X	
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.				X	
Comments: The reversible lanes would create a safety issue that does not presently exist.				X	
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 2**

Support	Score				
					
Evaluate the support from the public in Bow.		X			
Evaluate the support from the public in Pembroke.		X			
Evaluate the support from the public in Concord.		X			
Evaluate the support from the public in the other communities in the Central NH Region.			X		
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.				X	
Evaluate the support from resource agencies.			X		
Evaluate the support from resource groups.			X		
Comments: There was opposition because the only difference from Option 1 was the reversible lane which does not appear applicable			X		
Category Score			X		

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.				X	
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.				X	
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.				X	
Evaluate the effectiveness to expand bus service in the region.				X	
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.				X	
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.			X		
Evaluate the effectiveness to integrate all modes of transportation				X	
Comments: This alternative promotes the use of other modes of transportation.				X	
Category Score				X	

SCREENING SUMMARY

OPPORTUNITY CORRIDOR CONCEPT OPTION 4

The Opportunity Corridor Concept was developed by the City of Concord. Option 4 includes all elements of this concept in addition to a Route 106 Connector and Exit 2 ½ on I-393. It proposes the following improvements or provisions;

- Six Lanes on I-93
- Westerly shift of I-93
- Lower I-93 between Exits 13 & 15
- Reconfigure Exits 14 & 15
- Route 106 Connector (I-89 to US 3)
- Extend Storrs Street north & south
- Local Connection to Fort Eddy Road
- Multi-modal center
- River Access
- Exit 2 ½ on I-393

Category	Score					
						
Access					X	
Aesthetics				X		
Community Resources			X			
Community Vision				X		
Economic Vitality				X		
Historic and Archeological Resources	X					
Implementation	X					
Mobility					X	
Natural Environment	X					
Public Health			X			
Quality of Life					X	
Residential Neighborhoods			X			
Safety					X	
Support						
Transportation Choice				X		

Opportunity Corridor Option 4 is deemed ...	Reasonable or Unreasonable
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Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 4**

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.				X	
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.					X
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.					X
Evaluate the access provided to and from tourist destinations.					X
Comments: Access is substantially improved by this alternative.					X
Category Score					X

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 4**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .		X			
Evaluate the views <i>of I-93</i> from the adjacent communities.				X	
Evaluate the views of the Merrimack River.				X	
Evaluate the views from the Merrimack River.			X		
Evaluate whether the unique character of the Capital Region is complemented.				X	
Comments: The views are improved by this alternative. Category Score				X	

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No Impacts. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 4**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.				X	
Evaluate the potential impacts on population and employment growth in the region.				X	
Comments: Category Score				X	

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Concord's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.				X	
Evaluate the effects to anticipated economic initiatives in Bow.				X	
Evaluate the effects to anticipated economic initiatives in Concord.					X
Evaluate the effects to anticipated economic initiatives in Pembroke.					X
Evaluate the potential impacts to regional economic prospects.				X	
Comments: This alternative would benefit the Category Score economies of the adjacent communities.				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 4**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.	X				
Comments: The improvements could impact sensitive archeological resources. Category Score	X				

Implementation	Score				
					
Evaluate the cost.	X				
Evaluate the ability to implement in phases over a period of time.		X			
Evaluate the ability to maintain mobility and access during construction.		X			
Comments: Phasing of this alternative would be difficult and there would be disruption of traffic during construction. Category Score	X				

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.					X
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.					X
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.					X
Evaluate the effectiveness to provide for the movement of goods and services in the region.					X
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.				X	
Comments: Mobility would be substantially enhanced by this alternative. Category Score					X

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 4**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.	X				
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.		X			
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.		X			
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.	X				
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.	X				
Comments: This alternative would have substantial impacts to the natural resources that exist in the Garvins Falls area. Category Score	X				

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.		X			
Evaluate the effect on air quality post construction including mobile-source air toxins.			X		
Evaluate the effect on walkable communities.				X	
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Access to the river and other proposed pedestrian trails could improve public health, however, a new corridor in the region could worsen air quality. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 4**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.				X	
Evaluate the effect on the Quality of Life for those working in the region.					X
Evaluate the effect on the Quality of Life for those traveling through the region.					X
Evaluate the effect on noise levels.				X	
Comments: This alternative would improve the quality of life for those in the region by reducing traffic congestion and providing access to other community assets like the river.					X
Category Score					

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.			X		
Evaluate the effect on planned or developing residential neighborhoods.			X		
Comments: No Impacts.			X		
Category Score					

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.					X
Evaluate the effectiveness to improve safety on I-89.					X
Evaluate the effectiveness to improve safety on I-393.					X
Evaluate the effectiveness to improve safety on local streets.				X	
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.				X	
Comments:					X
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 4**

Support	Score				
					
Evaluate the support from the public in Bow.					X
Evaluate the support from the public in Pembroke.					X
Evaluate the support from the public in Concord.					X
Evaluate the support from the public in the other communities in the Central NH Region.				X	
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.					X
Evaluate the support from resource agencies.	X				
Evaluate the support from resource groups.	X				
Comments: Category Score					

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.				X	
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.				X	
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.				X	
Evaluate the effectiveness to expand bus service in the region.			X		
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.				X	
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.			X		
Evaluate the effectiveness to integrate all modes of transportation				X	
Comments: Category Score				X	

SCREENING SUMMARY
OPPORTUNITY CORRIDOR CONCEPT OPTION 5

The Opportunity Corridor Concept was developed by the City of Concord. Option 5 includes most of the elements of this concept except the shifting and lowering of I-93, the multi-modal center, or river access. It proposes the following improvements or provisions;

- Six Lanes on I-93
- Reconfigure Exits 14 & 15
- Extend Storrs Street north & south
- Local Connection to Fort Eddy Road

Category	Score					
						
Access				X		
Aesthetics			X			
Community Resources			X			
Community Vision						
Economic Vitality				X		
Historic and Archeological Resources		X				
Implementation			X			
Mobility					X	
Natural Environment			X			
Public Health			X			
Quality of Life				X		
Residential Neighborhoods				X		
Safety					X	
Support						
Transportation Choice			X			

Opportunity Corridor Option 5 is deemed ...	Reasonable or Unreasonable
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Bow-Concord I-93 Transportation Planning Study

DETAILED SCREENING OPPORTUNITY CORRIDOR CONCEPT OPTION 5

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.				X	
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.			X		
Evaluate the access provided to and from tourist destinations.					X
Comments: Access is improved by this alternative. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 5**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .			X		
Evaluate the views <i>of I-93</i> from the adjacent communities.			X		
Evaluate the views of the Merrimack River.			X		
Evaluate the views from the Merrimack River.			X		
Evaluate whether the unique character of the Capital Region is complemented.			X		
Comments: Category Score			X		

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 5**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.				X	
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.					
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.				X	
Evaluate the potential impacts on population and employment growth in the region.				X	
Comments: Category Score					

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Concord's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.				X	
Evaluate the effects to anticipated economic initiatives in Bow.				X	
Evaluate the effects to anticipated economic initiatives in Concord.					X
Evaluate the effects to anticipated economic initiatives in Pembroke.				X	
Evaluate the potential impacts to regional economic prospects.				X	
Comments: Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 5**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.		X			
Comments: Category Score		X			

Implementation	Score				
					
Evaluate the cost.		X			
Evaluate the ability to implement in phases over a period of time.		X			
Evaluate the ability to maintain mobility and access during construction.			X		
Comments: Category Score			X		

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.					X
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.					X
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.					X
Evaluate the effectiveness to provide for the movement of goods and services in the region.					X
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.				X	
Comments: Category Score					X

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 5**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.				X	
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.			X		
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.			X		
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.		X			
Comments: Category Score			X		

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.		X			
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.			X		
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 5**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.				X	
Evaluate the effect on the Quality of Life for those working in the region.				X	
Evaluate the effect on the Quality of Life for those traveling through the region.					X
Evaluate the effect on noise levels.			X		
Comments: Category Score				X	

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.				X	
Evaluate the effect on planned or developing residential neighborhoods.				X	
Comments: Category Score				X	

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.					X
Evaluate the effectiveness to improve safety on I-89.					X
Evaluate the effectiveness to improve safety on I-393.					X
Evaluate the effectiveness to improve safety on local streets.				X	
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.				X	
Comments: Category Score					X

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
OPPORTUNITY CORRIDOR CONCEPT OPTION 5**

Support	Score				
					
Evaluate the support from the public in Bow.				X	
Evaluate the support from the public in Pembroke.					X
Evaluate the support from the public in Concord.					
Evaluate the support from the public in the other communities in the Central NH Region.				X	
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.					X
Evaluate the support from resource agencies.					X
Evaluate the support from resource groups.				X	
Comments: Category Score					

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.				X	
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.				X	
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.				X	
Evaluate the effectiveness to expand bus service in the region.			X		
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.			X		
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.			X		
Evaluate the effectiveness to integrate all modes of transportation			X		
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY

ROUTE 106 CONNECTOR OPTION 1

The Route 106 Connector Option 1 proposes a limited access connector roadway from I-89 to the Route 3/106 Intersection. I-93 would remain four lanes north of I-89 under this alternative.

Category	Score					
						
Access				X		
Aesthetics			X			
Community Resources			X			
Community Vision				X		
Economic Vitality			X			
Historic and Archeological Resources	X					
Implementation		X				
Mobility		X				
Natural Environment	X					
Public Health			X			
Quality of Life			X			
Residential Neighborhoods			X			
Safety		X				
Support		X				
Transportation Choice				X		

<p>The Route 106 Connector Option 1 is deemed Unreasonable due to its inability to address the future mobility needs of I-93.</p>	<p>Unreasonable</p>
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Bow-Concord I-93 Transportation Planning Study

DETAILED SCREENING ROUTE 106 CONNECTOR OPTION 1

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.					X
Evaluate the access provided to and from tourist destinations.				X	
Comments: Access to Pembroke and tourist destinations would be improved.				X	
Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 1**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .			X		
Evaluate the views <i>of I-93</i> from the adjacent communities.			X		
Evaluate the views of the Merrimack River.		X			
Evaluate the views from the Merrimack River.				X	
Evaluate whether the unique character of the Capital Region is complemented.			X		
Comments: The views of I-93 would not be affected while the bridge over the river would improve the views of the river and degrade the views from the river.			X		
Category Score					

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No Impacts			X		
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 1**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.				X	
Evaluate the potential impacts on population and employment growth in the region.			X		
Comments: The adjacent communities strongly support this new connection. Category Score				X	

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.			X		
Evaluate the potential impacts to Concord's existing businesses and commercial districts.			X		
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.			X		
Evaluate the effects to anticipated economic initiatives in Bow.				X	
Evaluate the effects to anticipated economic initiatives in Concord.			X		
Evaluate the effects to anticipated economic initiatives in Pembroke.				X	
Evaluate the potential impacts to regional economic prospects.			X		
Comments: Overall the economies of the local communities and region would not be improved by this alternative. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 1**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.	X				
Comments: The improvements could seriously impact sensitive archeological resources. Category Score	X				

Implementation	Score				
					
Evaluate the cost.		X			
Evaluate the ability to implement in phases over a period of time.		X			
Evaluate the ability to maintain mobility and access during construction.				X	
Comments: Relatively high cost due to bridging two rivers. Category Score		X			

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.				X	
Evaluate the effectiveness to provide for the movement of goods and services in the region.				X	
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.		X			
Comments: This alternative does not address the mobility needs of I-93. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 1**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.	X				
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.		X			
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.		X			
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.	X				
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.	X				
Comments: This alternative would have substantial impacts to the natural resources that exist in the Garvins Falls area. Category Score	X				

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.			X		
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.			X		
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Does not affect public health in any measurable way Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 1**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.			X		
Evaluate the effect on the Quality of Life for those working in the region.			X		
Evaluate the effect on the Quality of Life for those traveling through the region.			X		
Evaluate the effect on noise levels.			X		
Comments: Quality of Life is not affected by this alternative.			X		
Category Score			X		

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.			X		
Evaluate the effect on planned or developing residential neighborhoods.			X		
Comments: No Impacts			X		
Category Score			X		

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.		X			
Evaluate the effectiveness to improve safety on I-89.		X			
Evaluate the effectiveness to improve safety on I-393.		X			
Evaluate the effectiveness to improve safety on local streets.		X			
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.		X			
Comments: This alternative would not correct existing safety issues and increased traffic and congestion along I-93 would be expected to make these safety issues worse.		X			
Category Score		X			

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 1**

Support	Score				
					
Evaluate the support from the public in Bow.					X
Evaluate the support from the public in Pembroke.					X
Evaluate the support from the public in Concord.					X
Evaluate the support from the public in the other communities in the Central NH Region.				X	
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.			X		
Evaluate the support from resource agencies.	X				
Evaluate the support from resource groups.	X				
Comments: There was support from the local communities for this alternative but resource groups and agencies see fatal environmental impacts.		X			
Category Score		X			

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.			X		
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.			X		
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.			X		
Evaluate the effectiveness to expand bus service in the region.			X		
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.			X		
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.			X		
Evaluate the effectiveness to integrate all modes of transportation			X		
Comments: No provisions to help promote choice			X		
Category Score			X		

SCREENING SUMMARY
ROUTE 106 CONNECTOR OPTION 2

The Route 106 Connector Option 2 proposes a limited access connector roadway from a new Exit 11 ½ on I-93 to the Route 3/106 Intersection. I-93 would remain four lanes north of I-89 under this alternative.

Category	Score					
						
Access				X		
Aesthetics			X			
Community Resources			X			
Community Vision				X		
Economic Vitality			X			
Historic and Archeological Resources		X				
Implementation		X				
Mobility		X				
Natural Environment		X				
Public Health			X			
Quality of Life			X			
Residential Neighborhoods			X			
Safety		X				
Support		X				
Transportation Choice				X		

<p>The Route 106 Connector Option 2 is deemed Unreasonable due to its inability to address the future mobility needs of I-93.</p>	<p>Unreasonable</p>
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Bow-Concord I-93 Transportation Planning Study

DETAILED SCREENING ROUTE 106 CONNECTOR OPTION 2

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.					X
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.					X
Evaluate the access provided to and from tourist destinations.				X	
Comments: Access to Pembroke, Bow and tourist destinations would be improved.				X	
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 2**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .			X		
Evaluate the views <i>of I-93</i> from the adjacent communities.			X		
Evaluate the views of the Merrimack River.		X			
Evaluate the views from the Merrimack River.				X	
Evaluate whether the unique character of the Capital Region is complemented.			X		
Comments: The views of I-93 would not be affected while the bridge over the river would improve the views of the river and degrade the views from the river. Category Score			X		

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No Impacts. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 2**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.				X	
Evaluate the potential impacts on population and employment growth in the region.			X		
Comments: The adjacent communities support this new connection.				X	
Category Score				X	

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.			X		
Evaluate the potential impacts to Concord's existing businesses and commercial districts.			X		
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.			X		
Evaluate the effects to anticipated economic initiatives in Bow.					X
Evaluate the effects to anticipated economic initiatives in Concord.			X		
Evaluate the effects to anticipated economic initiatives in Pembroke.				X	
Evaluate the potential impacts to regional economic prospects.			X		
Comments: Overall the economies of the local communities and region would not be improved by this alternative.			X		
Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 2**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.		X			
Comments: The improvements could impact sensitive archeological resources.		X			
Category Score					

Implementation	Score				
					
Evaluate the cost.		X			
Evaluate the ability to implement in phases over a period of time.		X			
Evaluate the ability to maintain mobility and access during construction.				X	
Comments: Relatively high cost due to bridging the Merrimack River.		X			
Category Score					

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.				X	
Evaluate the effectiveness to provide for the movement of goods and services in the region.				X	
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.		X			
Comments: This alternative does not address the mobility needs of I-93.		X			
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 2**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.	X				
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.		X			
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.		X			
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.		X			
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.		X			
Comments: This alternative could impact sensitive natural resources. Category Score		X			

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.			X		
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.			X		
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Does not affect public health in any measurable way Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 2**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.			X		
Evaluate the effect on the Quality of Life for those working in the region.			X		
Evaluate the effect on the Quality of Life for those traveling through the region.			X		
Evaluate the effect on noise levels.			X		
Comments: Quality of Life is not affected by this alternative.			X		
Category Score			X		

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.			X		
Evaluate the effect on planned or developing residential neighborhoods.			X		
Comments: No Impacts.			X		
Category Score			X		

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.		X			
Evaluate the effectiveness to improve safety on I-89.		X			
Evaluate the effectiveness to improve safety on I-393.		X			
Evaluate the effectiveness to improve safety on local streets.		X			
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.		X			
Comments: This alternative would not correct existing safety issues and increased traffic and congestion along I-93 would be expected to make these safety issues worse.		X			
Category Score		X			

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
ROUTE 106 CONNECTOR OPTION 2**

Support	Score				
					
Evaluate the support from the public in Bow.					X
Evaluate the support from the public in Pembroke.					X
Evaluate the support from the public in Concord.					X
Evaluate the support from the public in the other communities in the Central NH Region.				X	
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.			X		
Evaluate the support from resource agencies.	X				
Evaluate the support from resource groups.	X				
Comments: There was support from the local communities for this alternative but resource groups and agencies see fatal environmental impacts.		X			
Category Score		X			

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.			X		
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.			X		
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.			X		
Evaluate the effectiveness to expand bus service in the region.			X		
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.			X		
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.			X		
Evaluate the effectiveness to integrate all modes of transportation			X		
Comments: No provisions to help promote choice			X		
Category Score			X		

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY

LOCAL ROAD IMPROVEMENTS ALTERNATIVE

The Local Road Improvements Alternative proposes improvements to or construction of new of local roads. I-93 would remain four lanes north of I-89 under this alternative and would include the following:

- Langley Parkway (NW Bypass)
- Exit 16 1/2
- Connector from Exit 16 to US 3

Category	Score					
						
Access			X			
Aesthetics			X			
Community Resources		X				
Community Vision		X				
Economic Vitality			X			
Historic and Archeological Resources	X					
Implementation		X				
Mobility		X				
Natural Environment	X					
Public Health			X			
Quality of Life		X				
Residential Neighborhoods		X				
Safety		X				
Support						
Transportation Choice			X			

The Local Road Improvements Alternative is deemed ...	Reasonable or Unreasonable
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Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY

LOCAL ROAD IMPROVEMENTS ALTERNATIVE

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.			X		
Evaluate the access provided to and from tourist destinations.			X		
Comments: No change in access Category Score			X		

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
LOCAL ROAD IMPROVEMENTS ALTERNATIVE

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .			X		
Evaluate the views <i>of I-93</i> from the adjacent communities.			X		
Evaluate the views of the Merrimack River.			X		
Evaluate the views from the Merrimack River.			X		
Evaluate whether the unique character of the Capital Region is complemented.			X		
Comments: No measurable effect to river of I-93. Category Score			X		

Community Resources	Score				
					
Evaluate the effect on parks.		X			
Evaluate the effect on schools.		X			
Comments: The new corridors could impact parks and/or schools. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
LOCAL ROAD IMPROVEMENTS ALTERNATIVE

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.			X		
Evaluate the potential impacts on population and employment growth in the region.		X			
Comments: These improvements are not compatible with Concord's plans. Category Score		X			

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.			X		
Evaluate the potential impacts to Concord's existing businesses and commercial districts.		X			
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.			X		
Evaluate the effects to anticipated economic initiatives in Bow.			X		
Evaluate the effects to anticipated economic initiatives in Concord.		X			
Evaluate the effects to anticipated economic initiatives in Pembroke.			X		
Evaluate the potential impacts to regional economic prospects.			X		
Comments: The economy of the local communities and region would not be improved by these local roads. Category Score			X		

SCREENING SUMMARY
LOCAL ROAD IMPROVEMENTS ALTERNATIVE

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.	X				
Evaluate the effect on archeological resources.		X			
Comments: These local roads pass through historic districts and could impact this resource. Category Score	X				

Implementation	Score				
					
Evaluate the cost.	X				
Evaluate the ability to implement in phases over a period of time.				X	
Evaluate the ability to maintain mobility and access during construction.				X	
Comments: There would considerable cost to construct these new corridors either from bridging the river or impacts to private property. Category Score		X			

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.				X	
Evaluate the effectiveness to provide for the movement of goods and services in the region.		X			
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.				X	
Comments: There local roads do not address the mobility needs of I-93. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
LOCAL ROAD IMPROVEMENTS ALTERNATIVE

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.	X				
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.		X			
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.		X			
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.	X				
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.	X				
Comments: The connection from Exit 16 would cross sensitive wetlands and floodplains. Category Score	X				

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.		X			
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.			X		
Evaluate the effect on drinking water quality and quantity.			X		
Comments: No overall change would be expected. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
LOCAL ROAD IMPROVEMENTS ALTERNATIVE

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.		X			
Evaluate the effect on the Quality of Life for those working in the region.				X	
Evaluate the effect on the Quality of Life for those traveling through the region.			X		
Evaluate the effect on noise levels.		X			
Comments: The Langley Parkway would bring more traffic to the center of Concord.	Category Score				
		X			

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.		X			
Evaluate the effect on planned or developing residential neighborhoods.		X			
Comments: The Langley Parkway would bring more traffic to the center of Concord	Category Score				
		X			

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.		X			
Evaluate the effectiveness to improve safety on I-89.		X			
Evaluate the effectiveness to improve safety on I-393.		X			
Evaluate the effectiveness to improve safety on local streets.				X	
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.				X	
Comments: The existing safety issues along I-93 are not addressed.	Category Score				
		X			

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
LOCAL ROAD IMPROVEMENTS ALTERNATIVE

Support	Score				
					
Evaluate the support from the public in Bow.					
Evaluate the support from the public in Pembroke.					
Evaluate the support from the public in Concord.					
Evaluate the support from the public in the other communities in the Central NH Region.					
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.					
Evaluate the support from resource agencies.					
Evaluate the support from resource groups.					
Comments: Category Score					

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.			X		
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.			X		
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.			X		
Evaluate the effectiveness to expand bus service in the region.			X		
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.				X	
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.			X		
Evaluate the effectiveness to integrate all modes of transportation				X	
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
SAFETY IMPROVEMENTS ALTERNATIVE

The Safety Improvements Alternative proposes to address the existing safety issues along I-93, I-89 and I-393. I-93 would remain four lanes north of I-89 under this alternative.

Category	Score					
						
Access			X			
Aesthetics			X			
Community Resources			X			
Community Vision		X				
Economic Vitality			X			
Historic and Archeological Resources			X			
Implementation				X		
Mobility	X					
Natural Environment			X			
Public Health			X			
Quality of Life		X				
Residential Neighborhoods			X			
Safety					X	
Support		X				
Transportation Choice			X			

The Safety Improvements Alternative is deemed ...	Reasonable or Unreasonable
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Bow-Concord I-93 Transportation Planning Study

DETAILED SCREENING SAFETY IMPROVEMENTS ALTERNATIVE

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.			X		
Evaluate the access provided to and from tourist destinations.			X		
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
SAFETY IMPROVEMENTS ALTERNATIVE**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .			X		
Evaluate the views <i>of I-93</i> from the adjacent communities.			X		
Evaluate the views of the Merrimack River.			X		
Evaluate the views from the Merrimack River.			X		
Evaluate whether the unique character of the Capital Region is complemented.			X		
Comments: Category Score			X		

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
SAFETY IMPROVEMENTS ALTERNATIVE**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.				X	
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.			X		
Evaluate the potential impacts on population and employment growth in the region.		X			
Comments: Category Score		X			

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.			X		
Evaluate the potential impacts to Concord's existing businesses and commercial districts.			X		
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.			X		
Evaluate the effects to anticipated economic initiatives in Bow.			X		
Evaluate the effects to anticipated economic initiatives in Concord.			X		
Evaluate the effects to anticipated economic initiatives in Pembroke.			X		
Evaluate the potential impacts to regional economic prospects.			X		
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
SAFETY IMPROVEMENTS ALTERNATIVE**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.		X			
Comments: Category Score			X		

Implementation	Score				
					
Evaluate the cost.			X		
Evaluate the ability to implement in phases over a period of time.				X	
Evaluate the ability to maintain mobility and access during construction.				X	
Comments: Category Score				X	

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.	X				
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.	X				
Evaluate the effectiveness to provide for the movement of goods and services in the region.		X			
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.		X			
Comments: Category Score	X				

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
SAFETY IMPROVEMENTS ALTERNATIVE**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.		X			
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.			X		
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.			X		
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.		X			
Comments: Category Score			X		

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.		X			
Evaluate the effect on air quality post construction including mobile-source air toxins.			X		
Evaluate the effect on walkable communities.			X		
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
SAFETY IMPROVEMENTS ALTERNATIVE**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.		X			
Evaluate the effect on the Quality of Life for those working in the region.		X			
Evaluate the effect on the Quality of Life for those traveling through the region.	X				
Evaluate the effect on noise levels.		X			
Comments: Category Score		X			

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.			X		
Evaluate the effect on planned or developing residential neighborhoods.			X		
Comments: Category Score			X		

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.					X
Evaluate the effectiveness to improve safety on I-89.					X
Evaluate the effectiveness to improve safety on I-393.					X
Evaluate the effectiveness to improve safety on local streets.			X		
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.					X
Comments: Category Score					X

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
SAFETY IMPROVEMENTS ALTERNATIVE**

Support	Score				
					
Evaluate the support from the public in Bow.			X		
Evaluate the support from the public in Pembroke.			X		
Evaluate the support from the public in Concord.		X			
Evaluate the support from the public in the other communities in the Central NH Region.		X			
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.		X			
Evaluate the support from resource agencies.				X	
Evaluate the support from resource groups.				X	
Comments: Category Score		X			

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.			X		
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.			X		
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.			X		
Evaluate the effectiveness to expand bus service in the region.			X		
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.				X	
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.		X			
Evaluate the effectiveness to integrate all modes of transportation		X			
Comments: Category Score			X		

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
1992 FEASIBILITY STUDY ALTERNATIVE

The 1992 Feasibility Study proposed a significant reconstruction of I-93 that included an eight lane I-93. The proposed improvements included reconstruction of all exits on I-93 and Exit 1 on I-89.

Category	Score					
						
Access					X	
Aesthetics	X					
Community Resources			X			
Community Vision	X					
Economic Vitality				X		
Historic and Archeological Resources		X				
Implementation	X					
Mobility					X	
Natural Environment			X			
Public Health		X				
Quality of Life		X				
Residential Neighborhoods			X			
Safety					X	
Support	X					
Transportation Choice			X			

The 1992 Feasibility Study is deemed ...	Reasonable or Unreasonable
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Bow-Concord I-93 Transportation Planning Study

DETAILED SCREENING 1992 FEASIBILITY STUDY ALTERNATIVE

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.					X
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.					X
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.			X		
Evaluate the access provided to and from tourist destinations.					X
Comments: This alternative substantially improves access.					X
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
1992 FEASIBILITY STUDY ALTERNATIVE**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .		X			
Evaluate the views <i>of I-93</i> from the adjacent communities.	X				
Evaluate the views of the Merrimack River.			X		
Evaluate the views from the Merrimack River.			X		
Evaluate whether the unique character of the Capital Region is complemented.	X				
Comments: The wide corridor and elevated ramps degrade the views. Category Score	X				

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No impacts. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
1992 FEASIBILITY STUDY ALTERNATIVE**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.	X				
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.	X				
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.			X		
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.		X			
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.		X			
Evaluate the potential impacts on population and employment growth in the region.					X
Comments: This alternative is not compatible with the visions of the communities. Category Score	X				

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.		X			
Evaluate the potential impacts to Concord's existing businesses and commercial districts.		X			
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.			X		
Evaluate the effects to anticipated economic initiatives in Bow.				X	
Evaluate the effects to anticipated economic initiatives in Concord.				X	
Evaluate the effects to anticipated economic initiatives in Pembroke.			X		
Evaluate the potential impacts to regional economic prospects.				X	
Comments: Existing businesses would be impacted but the increased access and mobility could improve future business. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
1992 FEASIBILITY STUDY ALTERNATIVE**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.		X			
Comments: The improvements could impact sensitive archeological resources.		X			
Category Score					

Implementation	Score				
					
Evaluate the cost.	X				
Evaluate the ability to implement in phases over a period of time.			X		
Evaluate the ability to maintain mobility and access during construction.		X			
Comments: This alternative would be unreasonably expensive and construction would be extremely disruptive.	X				
Category Score					

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.					X
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.					X
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.					X
Evaluate the effectiveness to provide for the movement of goods and services in the region.					X
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.					X
Comments: Mobility would be substantially improved by this alternative.					X
Category Score					

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
1992 FEASIBILITY STUDY ALTERNATIVE**

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.			X		
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.			X		
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.		X			
Comments: The extensive improvements would impact the natural environment. Category Score			X		

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.		X			
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.		X			
Evaluate the effect on drinking water quality and quantity.			X		
Comments: This alternative would promote automotive travel and could have a negative effect on air quality. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
1992 FEASIBILITY STUDY ALTERNATIVE**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.		X			
Evaluate the effect on the Quality of Life for those working in the region.		X			
Evaluate the effect on the Quality of Life for those traveling through the region.				X	
Evaluate the effect on noise levels.		X			
Comments: Traveling through the region would be improved but the expansive corridor would negatively impact those living and working in the area.	Category Score	X			

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.			X		
Evaluate the effect on planned or developing residential neighborhoods.			X		
Comments: No impacts.	Category Score		X		

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.					X
Evaluate the effectiveness to improve safety on I-89.					X
Evaluate the effectiveness to improve safety on I-393.					X
Evaluate the effectiveness to improve safety on local streets.				X	
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.				X	
Comments: Existing deficiencies would be corrected with this alternative.	Category Score				X

Bow-Concord I-93 Transportation Planning Study

**DETAILED SCREENING
1992 FEASIBILITY STUDY ALTERNATIVE**

Support	Score				
					
Evaluate the support from the public in Bow.	X				
Evaluate the support from the public in Pembroke.	X				
Evaluate the support from the public in Concord.	X				
Evaluate the support from the public in the other communities in the Central NH Region.		X			
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.			X		
Evaluate the support from resource agencies.	X				
Evaluate the support from resource groups.	X				
Comments: Strong opposition for this alternative. Category Score	X				

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.			X		
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.			X		
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.			X		
Evaluate the effectiveness to expand bus service in the region.				X	
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.				X	
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.		X			
Evaluate the effectiveness to integrate all modes of transportation			X		
Comments: This alternative is focused on improving automobile travel. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY

PASSENGER RAIL SERVICE ALTERNATIVE

Passenger Rail Service proposes implementing rail service from the south into Concord. I-93 would remain four lanes north of I-89.

Category	Score					
						
Access			X			
Aesthetics			X			
Community Resources			X			
Community Vision				X		
Economic Vitality				X		
Historic and Archeological Resources			X			
Implementation	X					
Mobility		X				
Natural Environment			X			
Public Health				X		
Quality of Life				X		
Residential Neighborhoods			X			
Safety			X			
Support						
Transportation Choice					X	

The Passenger Rail Service Alternative is deemed ...	Reasonable or Unreasonable
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Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY

PASSENGER RAIL SERVICE ALTERNATIVE

The purpose of screening is to evaluate whether a concept is effective in addressing the problems and goals defined for this project. The criterion on the following pages determines if a concept is reasonable and should be included in the range of reasonable alternatives. The criteria are arranged into fifteen categories that are summarized on the previous page. The Scoring System outlined below is a qualitative measure of a concepts ability to meet the criteria. The Category Score is an overall score for the particular category that is not just the sum of the detailed scoring.

Scoring System				
				
Fatal Flaw Impact Serious Degradation Unreasonable Strong Opposition	Negative Impact Degradation Opposition	Neutral Not Applicable No Impact	Benefit Improvement Enhancement Support	Substantial Benefit Substantial Improvement Reasonable Strong Support

Detailed Screening Criteria

Access	Score				
					
Evaluate the access provided to and from I-93, I-89 & I-393 in Bow.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Concord.			X		
Evaluate the access provided to and from I-93, I-89 & I-393 in Pembroke.			X		
Evaluate the access provided to and from tourist destinations.			X		
Comments: This alternative does not change access. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**SCREENING SUMMARY
PASSENGER RAIL SERVICE ALTERNATIVE**

Aesthetics	Score				
					
Evaluate the views of the adjacent communities <i>from I-93</i> .			X		
Evaluate the views <i>of I-93</i> from the adjacent communities.			X		
Evaluate the views of the Merrimack River.			X		
Evaluate the views from the Merrimack River.			X		
Evaluate whether the unique character of the Capital Region is complemented.			X		
Comments: No changes to views as a result of this alternative.			X		
Category Score			X		

Community Resources	Score				
					
Evaluate the effect on parks.			X		
Evaluate the effect on schools.			X		
Comments: No impacts.			X		
Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**SCREENING SUMMARY
PASSENGER RAIL SERVICE ALTERNATIVE**

Community Vision	Score				
					
Evaluate the compatibility with the visions, land use plan, and major elements of the Bow Master Plan and/or other current planning documents.				X	
Evaluate the compatibility with the visions, land use plan, and major elements of the Concord Master Plan, the Opportunity Corridor Master Plan, and/or other current planning documents.					X
Evaluate the compatibility with the visions, land use plan, and major elements of the Pembroke Master Plan and/or other current planning documents.				X	
Evaluate the compatibility with the visions, land use plan, and major elements of the master plans and/or other planning documents from the other communities in the region.				X	
Evaluate the compatibility with the visions, land use plan, and major elements of the CNHRPC Regional Master Plan.				X	
Evaluate the potential impacts on population and employment growth in the region.			X		
Comments: Rail service is compatible with local plans. Category Score				X	

Economic Vitality	Score				
					
Evaluate the potential impacts to Bow's existing businesses and commercial districts.			X		
Evaluate the potential impacts to Concord's existing businesses and commercial districts.				X	
Evaluate the potential impacts to Pembroke's existing businesses and commercial districts.			X		
Evaluate the effects to anticipated economic initiatives in Bow.			X		
Evaluate the effects to anticipated economic initiatives in Concord.				X	
Evaluate the effects to anticipated economic initiatives in Pembroke.			X		
Evaluate the potential impacts to regional economic prospects.				X	
Comments: Some improvement t business could be expected from passenger rail service. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**SCREENING SUMMARY
PASSENGER RAIL SERVICE ALTERNATIVE**

Historic and Archeological Resources	Score				
					
Evaluate the effect on historic resources.			X		
Evaluate the effect on archeological resources.			X		
Comments: No impacts. Category Score			X		

Implementation	Score				
					
Evaluate the cost.	X				
Evaluate the ability to implement in phases over a period of time.		X			
Evaluate the ability to maintain mobility and access during construction.		X			
Comments: Extremely difficult to implement because there is currently no passenger rail service in New Hampshire. Category Score	X				

Mobility	Score				
					
Evaluate the effectiveness to provide mobility for tourists <u>to and</u> through the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for commuters to and from the region during peak periods.		X			
Evaluate the effectiveness to provide mobility for local traffic movement during peak periods.		X			
Evaluate the effectiveness to provide for the movement of goods and services in the region.		X			
Evaluate the effectiveness to provide mobility for pedestrians and bicyclists.		X			
Comments: Does not address the future mobility needs of the area. Category Score		X			

Bow-Concord I-93 Transportation Planning Study

SCREENING SUMMARY
PASSENGER RAIL SERVICE ALTERNATIVE

Natural Environment	Score				
					
Evaluate the effect on wildlife habitat and fisheries based upon the NH Fish and Game Wildlife Action Plan priorities, for example, the floodplain forest of the Merrimack River and its tributaries and upland vegetated buffers around wetlands and surface waters.		X			
Evaluate the effect on known or potential habitat for endangered, threatened or special concern wildlife species based upon NH Natural Heritage Bureau mapping and the NH Fish and Game Wildlife Action Plan.			X		
Evaluate the effect on known or potential habitat for endangered, threatened or special concern plant species based upon NH Natural Heritage Bureau mapping.			X		
Evaluate the effect on large forest blocks, existing agricultural farms and prime soils for forest land and agriculture.			X		
Evaluate the effect on surface waters, aquifers, wetlands, floodplains, and riparian areas.			X		
Comments: No impacts since the rail corridor already exists. Category Score			X		

Public Health	Score				
					
Evaluate the effect on air quality during construction (i.e., traffic jams, construction equipment, detours, etc) including mobile-source air toxins.			X		
Evaluate the effect on air quality post construction including mobile-source air toxins.				X	
Evaluate the effect on walkable communities.				X	
Evaluate the effect on drinking water quality and quantity.			X		
Comments: Some improvement to public health due to reduction of auto use. Category Score				X	

Bow-Concord I-93 Transportation Planning Study

**SCREENING SUMMARY
PASSENGER RAIL SERVICE ALTERNATIVE**

Quality of Life	Score				
					
Evaluate the effect on the Quality of Life for those living in the region.			X		
Evaluate the effect on the Quality of Life for those working in the region.				X	
Evaluate the effect on the Quality of Life for those traveling through the region.				X	
Evaluate the effect on noise levels.					X
Comments: Improved quality of life for those traveling longer distances. Category Score				X	

Residential Neighborhoods	Score				
					
Evaluate the effect on existing residential neighborhoods.			X		
Evaluate the effect on planned or developing residential neighborhoods.			X		
Comments. No impacts. Category Score			X		

Safety	Score				
					
Evaluate the effectiveness to improve safety on I-93.			X		
Evaluate the effectiveness to improve safety on I-89.			X		
Evaluate the effectiveness to improve safety on I-393.			X		
Evaluate the effectiveness to improve safety on local streets.			X		
Evaluate the effectiveness to improve safety for pedestrians and bicyclists.			X		
Comments: Existing deficiencies are not addressed. Category Score			X		

Bow-Concord I-93 Transportation Planning Study

**SCREENING SUMMARY
PASSENGER RAIL SERVICE ALTERNATIVE**

Support	Score				
					
Evaluate the support from the public in Bow.					
Evaluate the support from the public in Pembroke.					
Evaluate the support from the public in Concord.					
Evaluate the support from the public in the other communities in the Central NH Region.		X			
Evaluate the support from those communities whose livelihood is dependent upon travel through the region.	X				
Evaluate the support from resource agencies.					X
Evaluate the support from resource groups.					X
Comments: Category Score					

Transportation Choice	Score				
					
Evaluate the effectiveness to provide for future passenger rail service to the region.					X
Evaluate the effectiveness to preserve the current freight rail service and enhance future freight rail service in the region.					X
Evaluate the effectiveness to integrate all modes of freight transport in the region including rail, truck and air.					X
Evaluate the effectiveness to expand bus service in the region.				X	
Evaluate the effectiveness to improve pedestrian and bicycle facilities in the region.				X	
Evaluate the effectiveness to reduce the number of single occupancy vehicles in the region.				X	
Evaluate the effectiveness to integrate all modes of transportation				X	
Comments: Promotes the use of alternate modes. Category Score					X