Column Heading	Description
Primary Service Concept	A conceptual bundle of projects that would support 3 daily train roundtrips in the specified corridor.
Potential Project - Description	An individual capital project that could be funded on a standalone basis or as part of a Service Concept
ROM Estimate (\$2024) [SCC 10-100 except 70]	A high-level cost estimate based on the GoTriangle 2024 commuter rail cost estimating methodology (Note: high-level nature of study requires additional guidance from NCDOT Rail Division to confirm cost estimates shown)
Start MP End MP	Milepost where the project begins (point projects like a station or a grade separation are listed only in MP) Milepost where the project ends
Service Concepts Supported	Identifies how many of the studied Service Concepts an individual Potential Project may support.
NCDOT Corridor ID Overlap	Indicates which of the USDOT Corridor ID grants received by NCDOT in Dec 2023 overlaps with this project
Local Decision Tree Category	Identifies the category of projects described in the Local Decision Tree to help stakeholders prioritize investments OUTSIDE of a Service Concept
Connects to National Passenger Rail Network	Existing Stations that provide one-seat ride Amtrak service to locations outside of the Triangle region and NC allow connections with other Amtrak trains
Positive Eligibility Triggers	Identification of project attributes that are likely to be able to be asserted as benefits under state or federal funding programs
Freight Rail Compatibiilty	Key attributes that indicate greater potential success for negotiations with freight railroads if either of them is "Yes"
Federal Eligibility	Which federal programs under current FRA policymaking the project is eligible to be funded
Attractiveness to Federal Critieria	How well an individual project is likely to match any criteria it is eligible for
Attractiveness to State Criteria	How well an individual project is likely to receive funding under the most recent SPOT guidelines in the REGIONAL IMPACT TIER. This rating is primarily generated from feedback from Alix Demers at NCDOT Rail and Alex Rickard at CAMPO, who are both top tier SPOT experts in NC. For example, one of the nuances that Alix Demers shared was: "Within the current Rail Mode scoring methodology (which can change every round of SPOT), if a rail corridor (or section thereof) that serves freight flows is currently congested and passenger operations are desired to be increased (or newly added), then submit-ting a project under SIT Code 1 (Freight rail corridor improvement or construction (main line track, sid-ings)) is wise because it would score at the Statewide Mobility level and not a lower level as it would if the project were submitted under SIT Code 5 (Passenger rail service). Notice the above text, "corridor that serves freight flows is currently congested" – the section of track between Mebane and Raleigh is generally not highly congested from a freight standpoint. Therefore, add-ing additional infrastructure such as interlockings and sidings can be beneficial, but not necessarily need-ed for additional freight flows to operate in the corridor – and this is what partly drives the scor-ing. Hence, a project may rank better if it is under SIT Code 1than if under SIT Code 5 simply because it has a shot at the Statewide Mobility level, but how much better I could not tell you."
	What This Means for How This Impacts the State Funding Rating In This Study: Generally speaking, any individual capital project that has a chance to be categorized as a freight project scores higher on Attractiveness to State Criteria because it may have access to funding in the Statewide Tier in addition to the Regional and Division Tiers of SPOT funding. Projects that are more likely to be in areas that see higher rail congestion (near the East Durham yard, in between Cary and Raleigh with its significant traffic and most Service Concepts using that stretch in the future)

Railroad Term	Definition

Crossover Interlocking

Siding

Positive Train Control (PTC)

Siding Conversion to Main

Control Point (CP)

A designated location on a railway line where signals and switches are remotely controlled by a train dispatcher.

Trackwork hardware that allows trains to switch from one track to another

An arrangement of signal apparatus that prevents conflicting movements through an arrangement of tracks such as junctions or crossings.

A processor-based/communication-based train control system designed to prevent train accidents. This is a requirement on lines that have regularly scheduled intercity/commuter rail passenger service.

A short section of track that branches off from the main line, allowing trains to be routed off the main track for various purposes. These purposes can include storing rolling stock, enabling trains to pass each other, or providing access to facilities like warehouses or industries.

Project Term Definition

CP Modifications Addition/relocation of crossovers to allow for more movements between tracks

Connecting the gap between multiple sidings into one long stretch of main track. This allows for dedicated tracks to isolate freight and passenger train traffic.

Siding Extension Extending sidings to accommodate expected freight train lengths. Some freight trains can go as long as 10,000 ft.

Signal Upgrade Implementing Positive Train Control to an existing line that does not have the required signals

Track Upgrade Consists fo upgrading the track infrastructure such as replacing and upgrading ties, installing more heavy-duty rail, etc.

Track Curve Realignment Flattening the sharpness of an existing curve to allow for higher speeds

Yard Modifications For this specific instance, the Raleigh to Wake Forest FSP design proposes to reroute the northern connection point to a more direct connection to the S-Line

29-Jun-25			Milepost Refer	ence Database Weblink		Service Concepts Supported NCDOT Corridor I									
		ROM Estimate									Winston			Ohavlatta t	
Primary Service Concept	Potential Project - Description	(\$2024) [SCC 10-100 except 70]	Start MP	End MP	Mebane to Clayton	Apex to Wake Forest	Sanford to Franklinton	Durham to Raleigh	Lillington to Raleigh	Carrboro to Durham	Winston- Salem to Raleigh	Raleigh to Wilmington	Raleigh to Fayetteville	Charlotte to Washingtor DC	
								1	,	ı				_	
Mebane to Clayton	Station - Mebane (New)	\$25 M	H 31.5		Y				1		Y			Y	
Mebane to Clayton	Station - Hillsborough (New)	\$25 M	H 40.6	11.40.5	Y						Y			Y	
Mebane to Clayton	Track - Siding between Hillsborough/Wye	\$70 M	H 40.6	H 46.5	Y	V	V	V	V/	V	Y			Y	
Mebane to Clayton	Yard - Heavy Maintenance Facility (Regional) Station - Durham Second Platform	\$220 M \$260 M	H 47.1 H 54.6		Y	Y	Y	Y	Y	Y	Y			Y	
Mebane to Clayton	Track - Second Track at Durham Station	\$200 M	П 54.6		T			Ť		Ť	ĭ			T T	
Medalle to Clayton	Track & Systems - Bypass Track and Interlocking modifications at D&S junction	\$170 M	H 56.0	H 56.8	Y			V			Υ			Y	
Mebane to Clayton	Track & Systems - bypass track and intertocking modifications at D&S junction	\$170 M	Н 30.0	П 30.6	ľ			T			ı			'	
Mebane to Clayton	Station - RTP (New)	\$20 M	H 64.2		V			٧			Υ			Y	
Mebane to Clayton	Station - Morrisville (New)	\$25 M	H 67.0		V	V	٧	Y			Y			' '	
ricbane to otayton	Station - Cary Third Platform	\$80 M	H 72.7		Y	V		Y			Y			Y	
Mebane to Clayton	Track - Second H-Line Track at Cary Station		,2.,				•				'			'	
	Track - Two sidings between Cary/Raleigh	\$140 M	H 72.7	H 80.8	Y	Y	Υ	Υ			Υ			Y	
Mebane to Clayton		'=		S 157.3							•				
Mebane to Clayton	Track -Siding between Raleigh/Garner	\$160 M	H 80.8	H 86.3	Υ							Υ			
Mebane to Clayton	Station - Garner (New)	\$25 M	H 86.3		Y							Υ			
Mebane to Clayton	Station - Clayton (New)	\$25 M	H 96.3		Υ							Υ			
Mebane to Clayton	Track -Layover Track south of Clayton Station	\$60 M	H 96.3		Υ							Υ			
Apex to Wake Forest	Station - Apex (New)	\$20 M	S 171.6			Υ	Υ		Ι						
Apex to Wake Forest	Track - Layover Track south of Apex Station	\$60 M	S 171.6			Υ	Υ								
Apex to Wake Forest	Track & Systems - Cary to Raleigh Third Track (Convert sidings to Third Main), Control Point	\$340 M	H 72.7	H 80.8		Y	Υ				Υ			Y	
	modifications		S 165.3	S 157.3											
Apex to Wake Forest	Known Project FSP FY '23 - Raleigh to Wake Forest	\$1.3 B	S 157.3	S 140.0		Υ	Υ		Υ					Y	
	- Station - Raleigh (Second Platform)														
	- Yard - Modifications														
	- Track & Systems - Sidings, Realignments, Signalization														
Apex to Wake Forest	Known Project RAISE FY '25 - Wake Forest Mobility Hub	\$ 16.4 M	S 140.5			Y	Υ							Υ	
	- Station - Wake Forest (New)														
Sanford to Franklinton	Station - Sanford (New)	\$25 M	S 199.0		T		Υ								
	Station - Youngsville (New)	\$200 M	S 136.5	S 140.0			Υ							Y	
	Track & Systems - Track upgrades, Track Curve realignments, and Signalization of existing	·													
Sanford to Franklinton	tracks between Wake Forest/Youngsville														
	Station - Franklinton (New)	\$200 M	S 130.3	136.5			Υ							Y	
	Track & Systems - Track upgrades, Track Curve realignments, and Signalization of existing														
Sanford to Franklinton	tracks between Youngsville/Franklinton														
Durham to Raleigh	Track - Durham to Cary Second Track (Convert sidings to Second Main)	\$340 M	H 54.6	H 72.7	Υ	Υ	Υ	Υ			Υ		T T	Тү	
	Track - Cary to Raleigh Third Track (Convert sidings to Third Main)	\$140 M	H 72.7	H 80.8	Y	Y	Y	Y			Υ			Y	
Durham to Raleigh		, -	S 165.3	S 157.3											
	Station - Fuquay-Varina (New)	\$200 M	NS 233.0	NS 250.6					Υ				Y		
	Track & Systems - Track upgrades and Signalization of existing tracks between														
Raleigh to Lillington	Raleigh/Fuquay-Varina														
Raleigh to Lillington	Track - Siding between Raleigh/Fuquay-Varina	\$70 M	NS 233.0	NS 250.6					Υ				Y		
	Station - Lillington (New)	\$200 M	NS 250.6	VF 14.9											
Dalaidh ta Lilliadta-	Track & Systems - Track upgrades and Signalization of existing tracks between Fuquay-														
Raleigh to Lillington Raleigh to Lillington	Varina/Lillington Track - Siding between Fuquay-Varina/Lillington	\$70 M	NC OFO C	VF 14.9					Υ	-			Y	+	
nateign to Littington	Track - Siding Detween Fuquay-varina/Littingt011	Φ/U MI	NS 250.6	VF 14.9					Y				l Y		
	Station - Carboro (New)	\$130 M	J 10.2	10.0						Υ	Υ			Υ	
	Track & Systems - Track upgrades and Signalization of existing tracks between														
Carborro to Durham	Carborro/Wye													<u> </u>	
Carborro to Durham	Track - Siding between Wye/Durham	\$70 M	H 46.5	H 54.6	Υ			1		Υ	Υ			Y	

Triangle Rail	Study Service Concepts & Project Matrix								
29-Jun-2	25				ive Eligibility 1	riggers	Freigh		eight Rail Compatibility
Primary Service Concept	Potential Project - Description	Local Decision Tree Category	Connects to National Passenger Rail Network	Benefits Existing Passenger Rail	Benefits Existing Freight Rail		Expands Freight Rail Service/Capacity		Freight Operator Interested in Passenger Rail?
Timary Service Concept	i otendati roject- pescription		T assenger native twork	Nait	, reight nait	Jervice/ Gapacity	Service/ Capacity	Agreement for i assenger hait.	Treight Operator interested in assenger hait.
Mebane to Clayton	Station - Mebane (New)	2-Station Projects				Y		Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Station - Hillsborough (New)	2-Station Projects				Y		Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Track - Siding between Hillsborough/Wye	4-Sidings & Interlockings		.,	Y	Y	Y	Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Yard - Heavy Maintenance Facility (Regional)	3-Regional Maintenance Yards	V	Y				Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Station - Durham Second Platform Track - Second Track at Durham Station	2-Station Projects	Y	Y				Yes	Seek latest information from NCDOT Rail
riebane to Ctayton	Track & Systems - Bypass Track and Interlocking modifications at D&S junction	4-Sidings & Interlockings		Y	Y			Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Truck a dystems - Bypass truck and interfeeding modifications at Date junction	4 Oldings a intertockings						165	occi latest information from NoboT hair
Mebane to Clayton	Station - RTP (New)	2-Station Projects				Υ		Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Station - Morrisville (New)	2-Station Projects				Υ		Yes	Seek latest information from NCDOT Rail
	Station - Cary Third Platform	2-Station Projects and 5-Raleigh/Cary	Υ	Υ			Y	Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Track - Second H-Line Track at Cary Station	Improvements							
	Track - Two sidings between Cary/Raleigh	4-Sidings & Interlockings and 5-Raleigh/Cary			Y	Y	Y	Yes	Seek latest information from NCDOT Rail
Mebane to Clayton		Improvements							
Mebane to Clayton	Track -Siding between Raleigh/Garner	4-Sidings & Interlockings		Y	Y	Y	Υ	Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Station - Garner (New)	2-Station Projects				Y		Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Station - Clayton (New)	2-Station Projects				Y		Yes	Seek latest information from NCDOT Rail
Mebane to Clayton	Track -Layover Track south of Clayton Station	3-Regional Maintenance Yards		Υ		Y		Yes	Seek latest information from NCDOT Rail
Apex to Wake Forest	Station - Apex (New)	2-Station Projects				Y		No	Seek latest information from NCDOT Rail
Apex to Wake Forest	Track - Layover Track south of Apex Station	3-Regional Maintenance Yards				Υ		No	Seek latest information from NCDOT Rail
Apex to Wake Forest	Track & Systems - Cary to Raleigh Third Track (Convert sidings to Third Main), Control Point modifications	4-Sidings & Interlockings and 5-Raleigh/Cary Improvements		Υ	Υ	Y	Y	No	Seek latest information from NCDOT Rail
Apex to Wake Forest	Known Project FSP FY '23 - Raleigh to Wake Forest - Station - Raleigh (Second Platform) - Yard - Modifications - Track & Systems - Sidings, Realignments, Signalization	2-Station Projects & 3-Regional Maintenance Yards & 4-Sidings & Interlockings	Y		Y	Y		No	Seek latest information from NCDOT Rail
Apex to Wake Forest	Known Project RAISE FY '25 - Wake Forest Mobility Hub - Station - Wake Forest (New)	2-Station Projects				Y		No	Seek latest information from NCDOT Rail
Sanford to Franklinton	Station - Sanford (New)	2-Station Projects				Y		No	Seek latest information from NCDOT Rail
	Station - Youngsville (New)	2-Station Projects and 4-Sidings & Interlockings				Y	Y	No	Seek latest information from NCDOT Rail
Sanford to Franklinton	Track & Systems - Track upgrades, Track Curve realignments, and Signalization of existing tracks between Wake Forest/Youngsville								
Samora to Franklinton	Station - Franklinton (New)	2-Station Projects and 4-Sidings & Interlockings				Y	Y	No	Seek latest information from NCDOT Rail
Sanford to Franklinton	Track & Systems - Track upgrades, Track Curve realignments, and Signalization of existing tracks between Youngsville/Franklinton								
Durham to Raleigh	Track - Durham to Cary Second Track (Convert sidings to Second Main)	4-Sidings & Interlockings		Υ	Y			Yes	Seek latest information from NCDOT Rail
Durham to Raleigh	Track - Cary to Raleigh Third Track (Convert sidings to Third Main)	4-Sidings & Interlockings		Y	Y			Yes	Seek latest information from NCDOT Rail
	Station - Fuquay-Varina (New)	2-Station Projects and 4-Sidings & Interlockings		Ì		Υ	Υ	No	Interested
Deleigh to Lillington	Track & Systems - Track upgrades and Signalization of existing tracks between	, , ,							
Raleigh to Lillington	Raleigh/Fuquay-Varina	A Cidings 0 Interlegities	1			V		Ma	Intercepted
Raleigh to Lillington	Track - Siding between Raleigh/Fuquay-Varina	4-Sidings & Interlockings	-			Y	V	No No	Interested
	Station - Lillington (New) Track & Systems - Track upgrades and Signalization of existing tracks between Fuquay-	2-Station Projects and 4-Sidings & Interlockings				Y	Y	No	Interested
Raleigh to Lillington	Varina/Lillington								
Raleigh to Lillington	Track - Siding between Fuquay-Varina/Lillington	4-Sidings & Interlockings				Υ		No	Interested
	Station - Carboro (New) Track & Systems - Track upgrades and Signalization of existing tracks between	2-Station Projects and 4-Sidings & Interlockings				Y		No	Seek latest information from NCDOT Rail
Carborro to Durham	Carborro/Wye								
Carborro to Durham	Track - Siding between Wye/Durham	4-Sidings & Interlockings	I	Υ	Υ		Y	No	Seek latest information from NCDOT Rail

Triangle Rail Study Service Concepts & Project Matrix														
29-Jun-25		Federal Eligibility							A					
														Attractiveness to State Criteria
Primary Service Concept	Potential Project - Description	MEGA	INFRA	CRISI	RAISE	FSP	RCE	MEGA	INFRA	CRISI	RAISE	FSP	RCE	
Mebane to Clayton	Station - Mebane (New)	N	N	N	Υ	Υ	N	N	N	N	Med	Med	N	Low to Medium
Mebane to Clayton	Station - Hillsborough (New)	N	N	N	Υ	Υ	N	N	N	N	Med	Med	N	Low to Medium
Mebane to Clayton	Track - Siding between Hillsborough/Wye	N	N	Y	Υ	Υ	N	N	N	Med	Low	Low	N	Medium
Mebane to Clayton	Yard - Heavy Maintenance Facility (Regional)	Y	N	N	N	Y	N	Low	N	N	N	Med	N	Low
	Station - Durham Second Platform	Y	N	N	N	Y	N	Low	N	N	N	High	N	Low to Medium
Mebane to Clayton	Track - Second Track at Durham Station			V	N.		N.	1	1	11: -1-	N.	I II ala	N.	Madison & Hirds
Mebane to Clayton	Track & Systems - Bypass Track and Interlocking modifications at D&S junction	Y	Y	Y	N	Y	N	Low	Low	High	N	High	N	Medium to High
Mebane to Clayton	Station - RTP (New)	N	N	N	Y	Y	N	N	N	N	Med	Med	N	Low to Medium
Mebane to Clayton	Station - Morrisville (New)	N	N	N	Y	Y	N	N	N	N	Med	Med	N	Low
	Station - Cary Third Platform	N	N	N	N	Υ	N	N	N	N	N	Med	N	Medium
Mebane to Clayton	Track - Second H-Line Track at Cary Station													
	Track - Two sidings between Cary/Raleigh	Υ	Y	Y	N	Υ	N	Low	Low	Med	N	Med	N	Medium to High
Mebane to Clayton														
Mebane to Clayton	Track -Siding between Raleigh/Garner	Υ	Υ	Y	N	Υ	N	Low	Low	Med	N	Med	N	Medium
Mebane to Clayton	Station - Garner (New)	N	N	N N	Y	Y	N	N N	N N	N	Med	Med	N	Low to Medium
Mebane to Clayton	Station - Clayton (New)	N N	N	N	Y	Y	N	N	N	N	Med	Med	N	Low to Medium
Mebane to Clayton	Track -Layover Track south of Clayton Station	N	N	N	Y	Y	N	N	N	N	Med	Med	N	Low to Medium
Apex to Wake Forest	Station - Apex (New)	N	N	N	Υ	Υ	N	N	N	N	Med	Med	N	Low
Apex to Wake Forest	Track - Layover Track south of Apex Station	N	N	N	Υ	Υ	N	N	N	N	Med	Med	N	Low
Apex to Wake Forest	Track & Systems - Cary to Raleigh Third Track (Convert sidings to Third Main), Control Point	Y	Y	Y	N	Υ	N	Low	Low	Med	N	High	N	Medium to High
	modifications								1					
Apex to Wake Forest	Known Project FSP FY '23 - Raleigh to Wake Forest	Y	Y	Y	N	Y	N	Low	Low	Med	N	High	N	Low to Medium
	- Station - Raleigh (Second Platform) - Yard - Modifications													
	- Track & Systems - Sidings, Realignments, Signalization													
Apex to Wake Forest	Known Project RAISE FY '25 - Wake Forest Mobility Hub	N	N	N	N	Υ	N	N	l N	N	N	High	N	Low
, p = 11 = 11 = 11 = 11 = 11 = 11 = 11 =	- Station - Wake Forest (New)													
Sanford to Franklinton	Station - Sanford (New)	N	N	N	Y	Y	N	N	N N	N N	Med	Med	N	Low
	Station - Youngsville (New)	N	N	N	N	Y	N	N	N	N	N	High	N	Low
Sanford to Franklinton	Track & Systems - Track upgrades, Track Curve realignments, and Signalization of existing tracks between Wake Forest/Youngsville													
ournord to Franktinton	Station - Franklinton (New)	N	N	N	N	Υ	N	N	N	N	N	High	N	Low
	Track & Systems - Track upgrades, Track Curve realignments, and Signalization of existing													
Sanford to Franklinton	tracks between Youngsville/Franklinton													
		<u> </u>	1 ,,	1 ,,		1 ,,	1	<u> </u>	<u> </u>		T	I		1
Durham to Raleigh	Track - Durham to Cary Second Track (Convert sidings to Second Main)	Y	Y	Y	N	Y	N	Low	Low	High	N	High	N	Medium
Durham to Raleigh	Track - Cary to Raleigh Third Track (Convert sidings to Third Main)	Y	Y	Y	N	Y	N	Low	Low	High	N	High	N	Medium
Durnam to Nateign														
	Station - Fuquay-Varina (New)	N	N	N	N	Υ	N	N	N	N	N	High	N	Low
	Track & Systems - Track upgrades and Signalization of existing tracks between													
Raleigh to Lillington	Raleigh/Fuquay-Varina													
Raleigh to Lillington	Track - Siding between Raleigh/Fuquay-Varina	N	N	N	Y	Y	N	N	N .	N	Med	Med	N	Medium
	Station - Lillington (New)	Y	Y	N	N	Y	N	Y	Low	N	N	High	N	Low
Raleigh to Lillington	Track & Systems - Track upgrades and Signalization of existing tracks between Fuquay- Varina/Lillington													
Raleigh to Lillington	Track - Siding between Fuquay-Varina/Lillington	N	N	N	Y	Y	N	N	N	N	Med	Med	N	Medium
					<u> </u>	<u> </u>		14	1,4	14		1 100		1 Todium
	Station - Carboro (New)	N	Υ	N	N	Υ	N	N	Low	N	N	High	N	Low
	Track & Systems - Track upgrades and Signalization of existing tracks between													
Carborro to Durham	Carborro/Wye			ļ .,	.,	ļ ,,			 		.	.	ļ	M- "
Carborro to Durham	Track - Siding between Wye/Durham	N	N	Y	Y	Y	N	N	N	Low	Med	Med	N	Medium