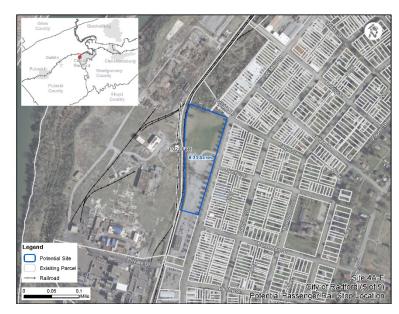


G1 PHASE 2 CRITERIA – FINAL SITE EVALUATION

	PHA	ASE 2 (FINAL)					
CATEGORY	CRITERIA DESCRIPTION	SCORING	VALUE				
	Low Cost	10 points lowest cost, 10*(lowest cost/cost) otherwise	10				
Cost	assistance of Christiansburg Engi	erial estimates developed by the Commission with the neering Department staff, and local engineering firms, s, Draper Aden, and Whitman Requardt & Associates.	10				
	Proximity to 750,000 potential trips	Maximum points for closest proximity to number of trips; percentage based on	30				
Didarahin	Proximity to 500,000 potential trips	number of trips at same radius otherwise. Example: Site A accumulates 250,000 trips at 2.3 miles. Site B	18				
Ridership	Proximity to 250,000 potential trips	has 125,000 trips at 2.3 miles. Site A = 12 points, Site B = 6 points.	12				
		k Level data edited to reflect 1,000,000 annual trips to med to residents, faculty/staff, and students based on					
	Job accessibility within a 60-	9 points for highest score,					
	minute drive	9*(impact/highest impact) otherwise	9				
	Notes: Magnify, Employment Workers Current Year Report. 60 minute drive time, 2015 all workers 16 years and over.						
	Total commuting to points north	7.5 points for highest score, 7.5*(impact/highest impact) otherwise					
	Notes: Census OnTheMap, Home Amtrak service corridor.	Destination Report. All localities immediately adjacent to	7.5				
Economic Impacts	Development potential on or immediately adjacent to property	3 points for highest score, 3*(impact/highest impact) otherwise	3				
	Development potential	3 points for highest score,					
	within a 10-mile radius	3*(impact/highest impact) otherwise	3				
	Notes: VEDP, retrieved from virginiascan.yesvirginia.org.						
	Proximity to households with	4.5 points for highest score,					
	1 vehicle or less	4.5*(impact/highest impact) otherwise	4.5				
		Benchmark Report. 60 minute drive time.					
	Proximity to low income	3 points for highest score,					
	households	3*(impact/highest impact) otherwise	3				
		Benchmark Report. 60 minute drive time.					
Tourism	Household entertainment	20 points for highest score,	20				
iouiisiii	expenditures 20*(impact/highest impact) otherwise Notes: Magnify, Expenditure: Leisure Report. 60 minute drive time.						
	Notes. Magniny, expenditure. Lei	TOTALS	120				

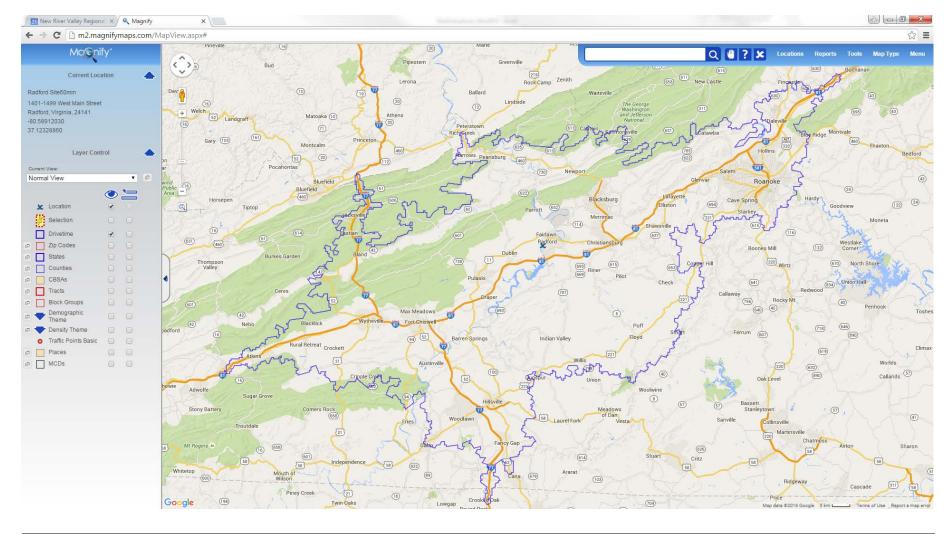
Unless otherwise noted above, site characteristic information was reviewed during 1-on-1 meetings between the Commission and local stakeholders. Phase 2 final criteria relevance, scoring value/weight, and scoring methodology were reviewed individually and approved on September 3, 2015 by the MPO Technical Advisory Committee.

G2 SITE 4A-E: WEST MAIN OPEN – PHASE 2 SCORING

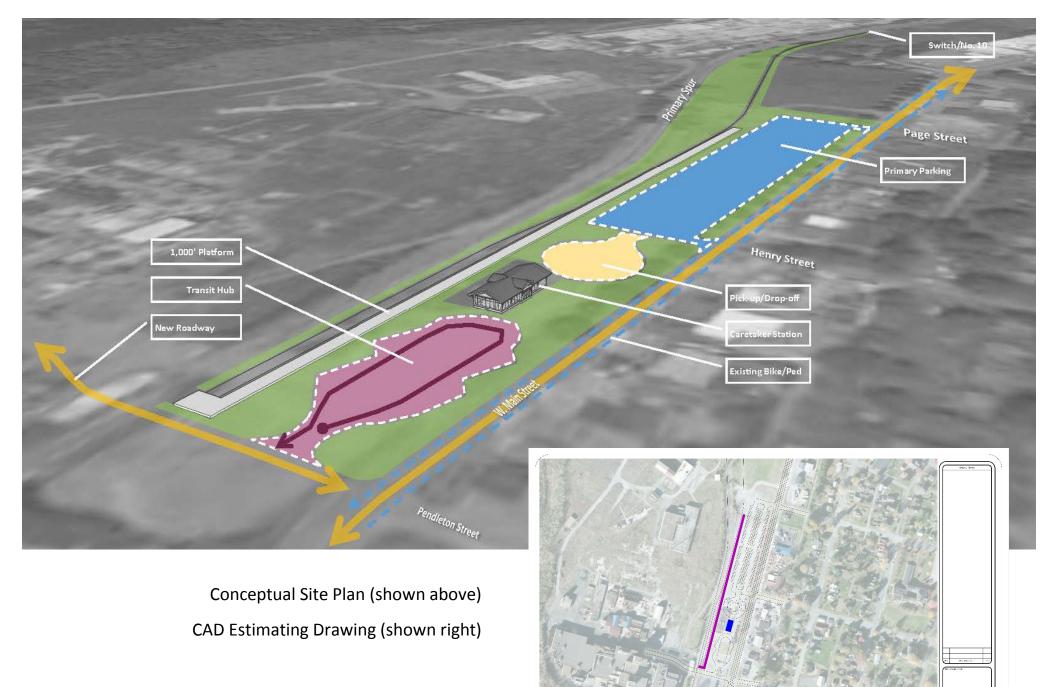




Cost								
Criteria	Cons	Enginee	Engineering/Administration			Total Cost + 10%		
Measure	\$4,23	30,550.00		\$430,7	749.50	\$5,127	7,429.45	
Score		NA		N	A	10).00	
Ridership								
Criteria	25	0,000		500,	,000	750),000	
Measure	18	2,109		208,	.316	350),992	
Score	8	.71		7.	50	14.04		
Economic Impacts								
Criteria	Job Access	North Com.	Develop	ment	10-mile Dev.	<1 Vehicle	Low Income	
Measure	215,501	2,377	highe	est	33	73,675	120,074	
Score	8.78	3.43	3.0	0	3.00	4.50	2.99	
			Tou	rism				
Criteria	2015 H	ouseholds	2015 Spending per Home			2015 Household Spending		
Measure	19	1,515	\$2,459.71			\$471,071,360.70		
Score		NA		N	A	19	19.60	
Site 4A-E: West Main Open – Summary								
Low Score High Scor		e Score Rank		Score Ranking	anking Site Score			
85	.55	111.11	3 rd		85.55			



Socio Economic Benchmark Report			Expenditure: Leisure Report			
		less than \$10,000	8.69%	2015 Total Households (60 minute drive time)	191,515	
Average Household Income	olds	\$10,000 to \$14,999	6.27%	2015 Household Average Entertainment Expenditures	\$2,459.71	
\$62,558		\$15,000 to \$19,999	6.42%	2015 Examples of Household Average Expenditures:		
80% Average Household Income		\$20,000 to \$24,999	6.10%	Fees and admissions	\$575.81	
Low-Moderate Income (LMI)	of Hou:	\$25,000 to \$29,999	5.45%	Recreation expenses, out-of-town trips	\$18.37	
\$50,046	e o	\$30,000 to \$34,999	5.25%	Fees for participant sports	\$93.39	
Total Percentage of Households	centage	\$35,000 to \$39,999	5.39%	Movie, other admissions, out-of-town trips	\$44.49	
Low-Moderate Income (LMI)	cen	\$40,000 to \$44, 999	5.40%	Play, theatre, opera concert	\$37.48	
62.70%	Per	\$45,000 to \$49,999	4.96%	Admission to sporting events	\$40.29	
		\$50,000 to \$59,999	8.77%	Fees for recreational lessons	\$93.35	



West Main Open, Radford

Passenger Rail Station Estimate

Item Description	Quantity	Units	Price	Total				
Demolition/Clearing	275000	SF	2.00	550,000.00				
Grading/Earthwork	1	LS	50,000.00	50,000.00				
New Sidewalk	2000	LF	80.00	160,000.00				
Standard Caretaker Station	2800	SF	200.00	560,000.00				
Platform (1,000'x15'x4')	1	LS	300,000.00	300,000.00				
Permeable Parking Lot	80000	SF	6.50	520,000.00				
Pick-up/Drop-off	16000	SF	10.00	160,000.00				
Transit Hub	22000	SF	10.00	220,000.00				
Architectural Style Lighting	40	Ea.	2,500.00	100,000.00				
CG-12 (Detectable Warning/Ramps)	6	LS	1,500.00	9,000.00				
Standard Rail/Track	2625	LF	200.00	525,000.00				
Standard No. 10 Turn Out	2	LS	125,000.00	250,000.00				
Pedestrian Crosswalks	3	Ea.	5,000.00	15,000.00				
Landscaping	1	LS	50,000.00	50,000.00				
Incidentals	1	LS	50,000.00	50,000.00				
Signage	1	LS	20,000.00	20,000.00				
Property Acquisition	1	LS	261,500.00	261,500.00				
Sanitary Sewer/Water Connection	1	LS	50,000.00	50,000.00				
Construction Contingency (10%)	1	LS	190,025.00	190,025.00				
Mobilization (10% Max of Construction)	1	LS	190,025.00	190,025.00				
				Subtotal:	4,230,550.00			
Engineering & Surveying	1	LS	211,527.50	211,527.50				
Environmental	1	LS	50,000.00	50,000.00				
Contract Administration	1	LS	84,611.00	84,611.00				
Inspection	1	LS	84,611.00	84,611.00				
				Subtotal:	430,749.50			
				Project Total:	4,661,299.50			
				10% Flex:	466,129.95			
Total Cost Estimate Projection:								
Total Cost Estimate Projection: 5 Prepared December 2015 5								

Radford - West Main

Site: 4A Size: 6.3 Acres Number of Parcels: 1 Ownership: Private Track Frontage: 1,021 ft. Proximity to Rail: 1.0 mile/spur Proximity to CoSS: 2.5 miles Displacement: minimal Floodplain: no Migratory Birds: 17 Endangered Species: 0 Historical Resources: 3 Open/Conservation: no Prime Farmland: no Hazardous Materials: no Local Plan Conflicts: no Existing Transit: yes Existing Bike/Ped: yes Existing Water: yes Existing Sewer: yes Existing Power: yes Existing Internet: yes 15-Mile Activity: 220,912 Prime Construction: 95%



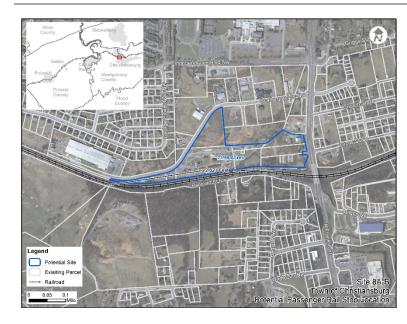
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01

Notes:

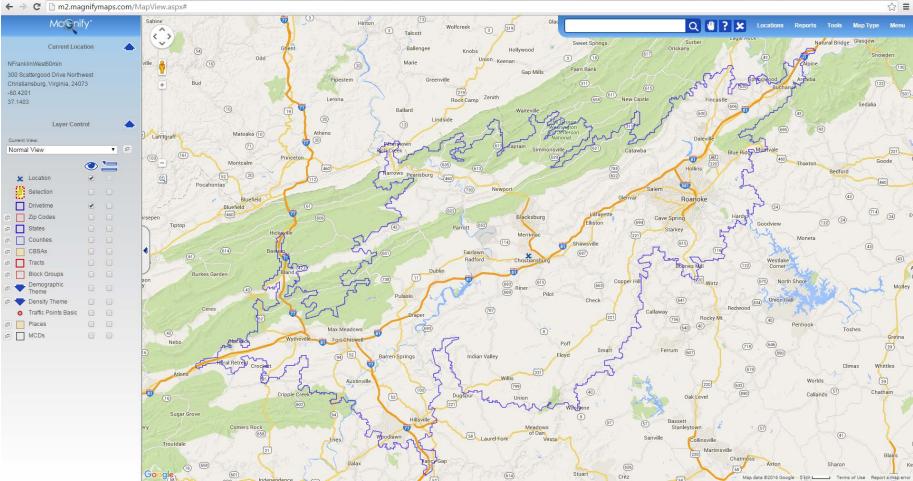


G3 SITE 8A-B: NORTH FRANKLIN WEST – PHASE 2 SCORING

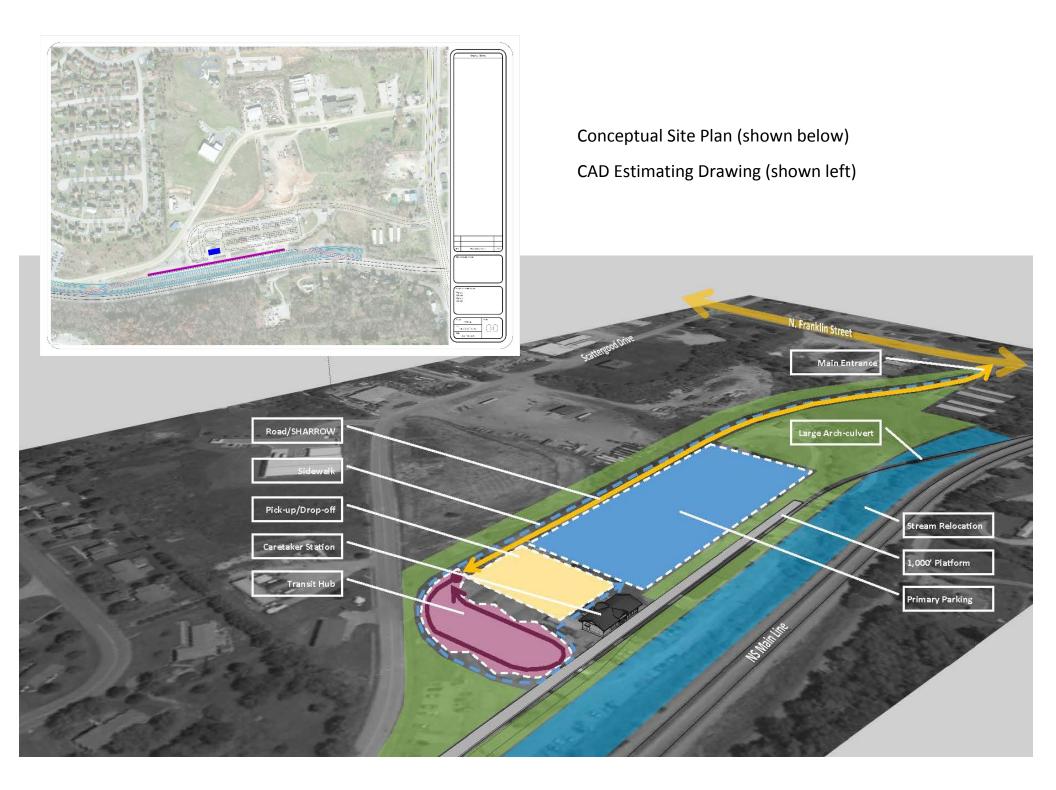


Cost										
Criteria	Cons	Engineering/Administration				Total Cost + 10%				
Measure	\$14,0	02,158.00	\$1,3	350,	,194.22		\$16,887	7,587.44		
Score		NA		Ν	A		3.	05		
	Ridership									
Criteria	250),000	5	500,	.000		750	,000		
Measure	250),857	4	199,	755		750	,173		
Score	12	2.00		18.	.00		30	.00		
Economic Impacts										
Criteria	Job Access	North Com.	Developme	ent	10-mile Dev.	<1	L Vehicle	Low Income		
Measure	219,800	5,194	mid		24		72,840	119,774		
Score	8.96	7.50	2.10		2.18		4.45	2.98		
			Tourisr	т						
Criteria	2015 Ho	ouseholds	2015 Spending per Home			2015 Household Spending				
Measure	193	3,508	\$2,471.24			\$478,204,709.90				
Score	l	NA		N	A		19.89			
	Site 8A-B: North Franklin West – Summary									
Low	Score	High Scor	re s		Score Ranking		Site Score			
85	.55	111.11			1 st		111.11			





Socio Economic Benchmark Report				Expenditure: Leisure Report			
		less than \$10,000	000 8.46% 2015 Total Households (60 minute drive time)		193,508		
Average Household Income	eholds	\$10,000 to \$14,999	6.13%	2015 Household Average Entertainment Expenditures	\$2,471.24		
\$63,638		\$15,000 to \$19,999	6.19%	2015 Examples of Household Average Expenditures:			
80% Average Household Income		\$20,000 to \$24,999	5.96%	Fees and admissions	\$580.11		
Low-Moderate Income (LMI)	of Hou:	\$25,000 to \$29,999	5.41%	Recreation expenses, out-of-town trips	\$18.49		
\$50,910		\$30,000 to \$34,999	5.17%	Fees for participant sports	\$93.98		
Total Percentage of Households	ntage	\$35,000 to \$39,999	5.41%	Movie, other admissions, out-of-town trips	\$44.84		
Low-Moderate Income (LMI)	cen	\$40,000 to \$44, 999	5.36%	Play, theatre, opera concert	\$37.76		
61.90%	Perc	\$45,000 to \$49,999	4.92%	Admission to sporting events	\$40.62		
	-	\$50,000 to \$59,999	8.89%	Fees for recreational lessons	\$94.19		



North Franklin West, C'burg

Passenger Rail Station Estimate

Item Description	Quantity	Units	Price	Total	
Demolition/Clearing	500000	SF	1.00	500,000.00	
Grading/Earthwork	1	LS	250,000.00	250,000.00	
New Sidewalk	2550	LF	80.00	204,000.00	
Standard Caretaker Station	2800	SF	200.00	560,000.00	
Platform (1,000'x15'x4')	1	LS	300,000.00	300,000.00	
Permeable Parking Lot	110000	SF	6.50	715,000.00	
Asphalt SM 12.5D	374	TON	125.00	46,750.00	
Asphalt BM 25.0	825	TON	100.00	82,500.00	
Aggregate Base	3117	TON	90.00	280,530.00	
Pick-up/Drop-off	17000	SF	10.00	170,000.00	
Transit Hub	26600	SF	10.00	266,000.00	
Stream - Self Mitigating 100-yr Flood	2400	LF	500.00	1,200,000.00	
Arch Culvert (custom)	2	Ea.	800,000.00	1,600,000.00	
Wetland Mitigation (road/spillway)	1	LS	100,000.00	100,000.00	
Architectural Style Lighting	50	Ea.	2,500.00	125,000.00	
CG-12 (Detectable Warning/Ramps)	2	LS	1,500.00	3,000.00	
Standard Rail/Track	2300	LF	200.00	460,000.00	
Standard No. 10 Turn Out	2	LS	125,000.00	250,000.00	
Retaining Wall(s)	0	SF	200.00	0.00	
CG-6 Curb and Gutter	0	LS	40,000.00	0.00	
Pedestrian Crosswalks	1	Ea.	5,000.00	5,000.00	
Intersection Signalization	1	LS	350,000.00	350,000.00	
Landscaping	1	LS	50,000.00	50,000.00	
Incidentals	1	LS	50,000.00	50,000.00	
Signage	1	LS	20,000.00	20,000.00	
Asset Reolocation (gravel lot)	1	LS	200,000.00	200,000.00	
Asset Relocation (office buildings)	10000	SF	200.00	2,000,000.00	
Asset Relocation (storage buildings)	30000	SF	35.00	1,050,000.00	
Asset Relocation (land)	1	LS	300,000.00	300,000.00	
Property Acquisition	1	LS	1,546,000.00	1,546,000.00	
Sanitary Sewer/Water Connection	1	LS	50,000.00	50,000.00	
Construction Contingency (10%)	1	LS	634,189.00	634,189.00	
Mobilization (10% Max of Construction)	1	LS	634,189.00	634,189.00	
				Subtotal:	14,002,158.00
Engineering & Surveying	1	LS	700,107.90	700,107.90	
Environmental	1	LS	50,000.00	50,000.00	
Flood Study	1	LS	40,000.00	40,000.00	
Contract Administration	1	LS	280,043.16	280,043.16	
Inspection	1	LS	280,043.16	280,043.16	
				Subtotal:	1,350,194.22
				Project Total:	15,352,352.22
				10% Flex:	1,535,235.22
		То	tal Cost Estima	ate Projection:	16,887,587.44

Christiansburg - W. Franklin

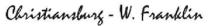
Site: 8A-B Size: 21.55 Acres Number of Parcels: 8 Ownership: Public/Private Track Frontage: 2,821 ft. Proximity to Rail: adjacent to main Proximity to CoSS: 1.0 mile Displacement: minimal/signatures Floodplain: 9.4 acres/43% **Migratory Birds: 15** Endangered Species: 3/simple mit. Historical Resources: 1 Open/Conservation: no Prime Farmland: no Hazardous Materials: no Local Plan Conflicts: no Existing Transit: yes Existing Bike/Ped: yes Existing Water: yes Existing Sewer: yes Existing Power: yes Existing Internet: yes 15-Mile Activity: 204,449 Prime Construction: 75%



pln

03

Notes:



Conceptual Scale:

Amtrak Station:



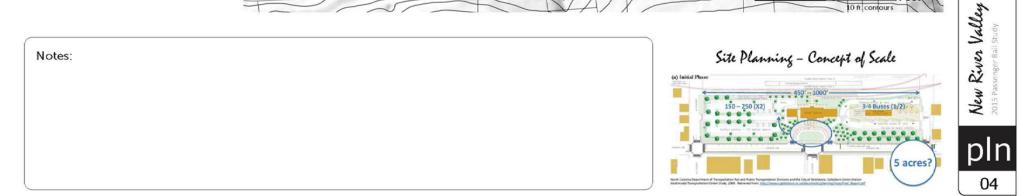
50 Parking Spaces:



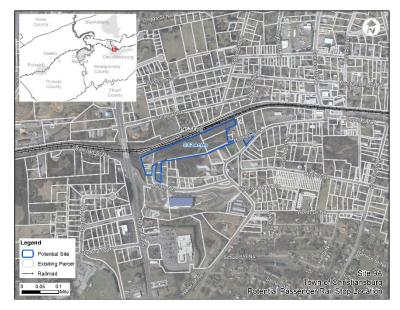
Regional Transit Hub:

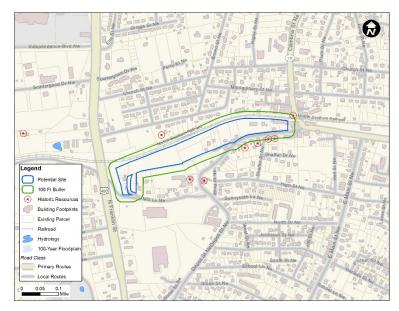






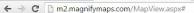
G4 SITE 9A: NORTH FRANKLIN EAST – PHASE 2 SCORING

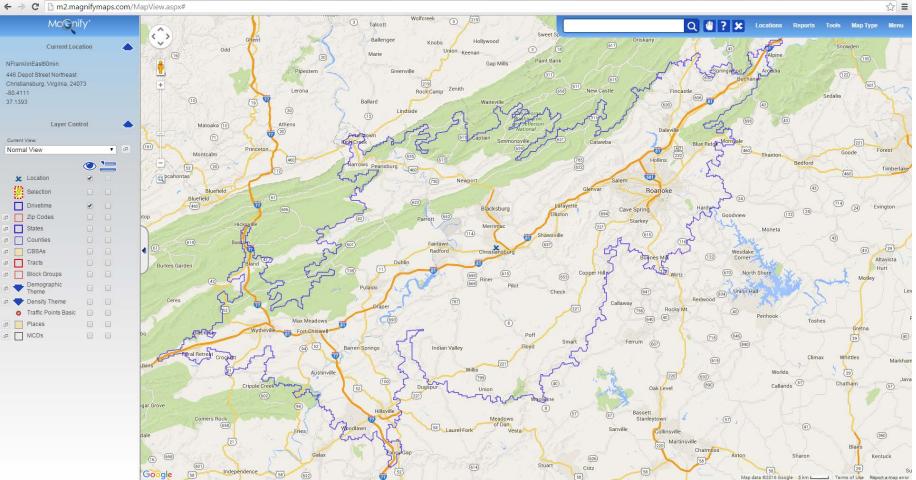




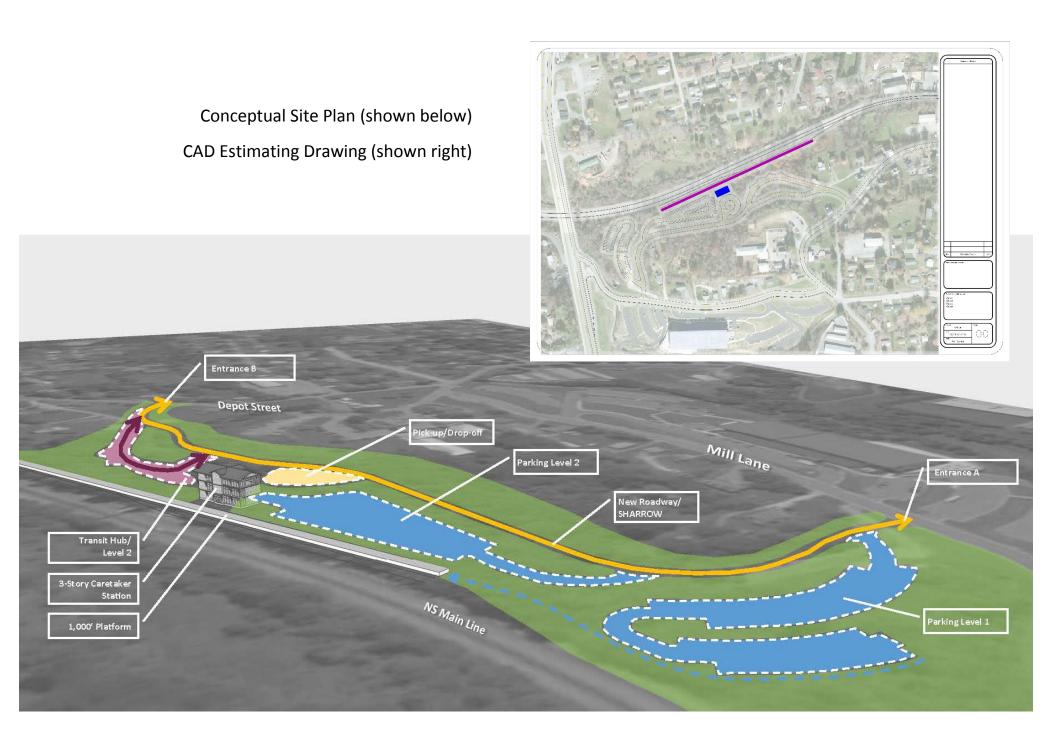
Cost									
Criteria	Cons	Engineering/Administration			Total Cost + 10%				
Measure	\$8,1	15,290.00	\$7	780,3	376.10	\$9,785	,232.71		
Score		NA		N	A	5.	26		
	Ridership								
Criteria	25	0,000		500,	.000	750	,000		
Measure	20	9,050		481,	548	749	,280		
Score	1	0.00		17.	.34	29	.96		
Economic Impacts									
Criteria	Job Access	North Com.	Developm	nent	10-mile Dev.	<1 Vehicle	Low Income		
Measure	220,882	5,194	low		24	73,099	120,378		
Score	9.00	7.50	0.90		2.18	4.46	3.00		
			Touris	sm					
Criteria	2015 H	ouseholds	2015 Spending per Home			2015 Household Spending			
Measure	19	4,511	\$	\$2,471.68			\$480,768,948.50		
Score		NA		Ν	A	20.00			
	Site 9A: North Franklin East – Summary								
Low	Score	High Scor	e S		core Ranking	Site Score			
85	.55	111.11			2 nd	109.61			







Socio Economic Benchmark Report			Expenditure: Leisure Report			
		less than \$10,000	8.45% 2015 Total Households (60 minute drive time)		194,511	
Average Household Income	olds	\$10,000 to \$14,999	\$10,000 to \$14,999 6.13% 2015 Household Average Entertainment Expenditures		\$2,471.68	
\$63,629		\$15,000 to \$19,999	6.18%	2015 Examples of Household Average Expenditures:		
80% Average Household Income		\$20,000 to \$24,999	5.96%	Fees and admissions	\$580.20	
Low-Moderate Income (LMI)	of Hou	\$25,000 to \$29,999	5.41%	Recreation expenses, out-of-town trips	\$18.50	
\$50,903	a)	\$30,000 to \$34,999	5.18%	Fees for participant sports	\$93.99	
Total Percentage of Households	ntag	\$35,000 to \$39,999	5.41%	Movie, other admissions, out-of-town trips	\$44.85	
Low-Moderate Income (LMI)	cen	\$40,000 to \$44, 999	5.36%	Play, theatre, opera concert	\$37.77	
61.89%	Per	\$45,000 to \$49,999	4.91%	Admission to sporting events	\$40.62	
	_	\$50,000 to \$59,999	8.89%	Fees for recreational lessons	\$94.22	



North Franklin East, C'burg

Passenger Rail Station Estimate

					1			
Item Description	Quantity	Units	Price	Total	1			
Demolition/Clearing	400000	SF	1.00	400,000.00				
Grading/Earthwork	1	LS	1,000,000.00	1,000,000.00				
New Sidewalk	1500	LF	80.00	120,000.00				
3-Story Caretaker Station	8400	SF	200.00	1,680,000.00				
Platform (1,000'x15'x4')	1	LS	300,000.00	300,000.00				
Permeable Parking Lot	80000	SF	6.50	520,000.00				
Asphalt SM 12.5D	510	TON	125.00	63,750.00				
Asphalt BM 25.0	1125	TON	100.00	112,500.00				
Aggregate Base	4250	TON	90.00	382,500.00				
Pick-up/Drop-off	14000	SF	10.00	140,000.00				
Transit Hub	1575	SF	10.00	15,750.00				
Watermain Relocation	1700	LF	350.00	595,000.00				
Architectural Style Lighting	35	Ea.	2,500.00	87,500.00				
Standard Rail/Track	2500	LF	200.00	500,000.00				
Standard No. 10 Turn Out	2	LS	125,000.00	250,000.00				
Retaining Wall(s)	500	SF	200.00	100,000.00				
Intersection Signalization	1	LS	350,000.00	350,000.00				
Landscaping	1	LS	50,000.00	50,000.00				
Incidentals	1	LS	50,000.00	50,000.00				
Signage	1	LS	20,000.00	20,000.00				
Property Acquisition	1	LS	518,400.00	526,900.00				
Sanitary Sewer/Water Connection	1	LS	125,000.00	125,000.00				
Construction Contingency (10%)	1	LS	363,195.00	363,195.00				
Mobilization (10% Max of Construction)	1	LS	363,195.00	363,195.00				
				Subtotal:	8,115,290.00			
Engineering & Surveying	1	LS	405,764.50	405,764.50				
Environmental	1	LS	50,000.00	50,000.00				
Contract Administration	1	LS	162,305.80	162,305.80				
Inspection	1	LS	162,305.80	162,305.80				
				Subtotal:	780,376.10			
				Project Total:	8,895,666.10			
10% Flex:								
Total Cost Estimate Projection:								
Prepared December 2015								

Christiansburg - E. Franklin

Site: 9A Size: 8.62 Acres Number of Parcels: 5 Ownership: Public/Private Track Frontage: 1,248 ft. Proximity to Rail: adjacent to main Proximity to CoSS: 1.0 mile Displacement: minimal/signatures Floodplain: yes/sliver Migratory Birds: 15 Endangered Species: 3/simple mit. Historical Resources: 2 Open/Conservation: no Prime Farmland: no Hazardous Materials: no Local Plan Conflicts: yes/Comp Existing Transit: yes Existing Bike/Ped: yes Existing Water: yes Existing Sewer: yes Existing Power: yes Existing Internet: yes 15-Mile Activity: 203,368 Prime Construction: 85%



pln

05

Notes:

Christiansburg - E. Franklin

Conceptual Scale:

Notes:

Amtrak Station:



50 Parking Spaces:



Regional Transit Hub:





pln

06

(5 acres?)