FINAL SERVICE ROAD STUDY



Wake and Johnston Counties

TIP Project Numbers R-2721, R-2828, and R-2829

Prepared for:





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1. INTRODUCTION

This Service Road Study for the Complete 540 project (TIP Projects R-2721, R-2828, and R-2829) was initiated by the North Carolina Turnpike Authority (NCTA). The objective of this study is to evaluate those parcels that would be directly impacted by the project such that existing road access to some, or all, of the parcel is eliminated. The evaluation includes a comparison between the cost associated with providing service road access with the cost of purchasing the isolated or remnant parcel.

The preliminary project design for the Preferred Alternative was reviewed to identify those parcels that would likely lose access with implementation of the project. Once the impacted parcels were identified they were then evaluated to determine the cost of constructing a service road that gave them access from existing roadways near the project. This cost was then compared to the total acquisition cost for the isolated or remnant portions of the parcel. In order to adequately evaluate and establish this cost/benefit analysis, the study includes the approximate land and structure cost of purchasing the remaining portions of the parcel after the controlled access right of way (ROW) has been acquired versus the cost of providing a usable service road to service the remnant parcel(s). Several factors were included in formulating an approximate cost to provide service roads. These factors included the cost associated with constructing the service road including any major hydraulic structures that may be necessary, environmental mitigation costs, and additional ROW necessary to develop the service road.

The approach to evaluating the cost effectiveness of providing remnant parcels with service road access is a six-step process: 1) Identify those parcels that would potentially lose access through the existing network of roads and effectively becoming "land-locked" as a direct result of construction of the project; 2) Evaluate existing cross accesses, adjacent parcel ownership, and existing access patterns; 3) Of the remaining parcels that do not have access, determine which ones have viable service road solutions; 4) Develop preliminary service road designs that meet minimum design and construction standards; 5) Quantify the costs associated with each service road, some of which would effectively serve several land-locked parcels (in these cases the cost of the service road is divided equitably between those parcels it serves; and, 6) Compare the costs associated with providing a service road (tabulated in step 5) with the cost of purchasing the remaining portions of parcels.

Steps one through three are discussed in Section 2 Access Evaluation of this study. Steps four and five are discussed in Section 3 Design Options of this study. Step six is discussed in Section 4 Cost / Benefit Analysis. Based on the information revealed through this six step process, recommendations to either provide a service road or purchase the remnant parcel(s) are made. These recommendations are included in Section 5 Recommendations of this study.

2. ACCESS EVALUATION

To begin the evaluation process, the design team compiled the latest available CADD mapping data for the project including the following files: 1) Design base files; 2) Existing property line files; 3) Proposed ROW and controlled access files; and 4) Photogrammetric mapping files. These files and their data were supplemented with available data from Wake and Johnston County GIS/Mapping System (http://www.wakegov.com/gis/services/Pages/data.aspx) (http://www.johnstonnc.com/gis2/content.cfm?PD=data). Both web sites were accessed in March 2017.

The above noted information and data were utilized in the identification of parcels that would potentially lose access due to project design and/or controlled access along the corridor. These parcels, once identified, were reviewed to determine existing access configuration, adjacent ownership connectivity, and potential access concepts to provide parcel access. This level of evaluation was conducted to identify any fatal flaws with the potential service road options. Engineering judgment was exercised to determine valid access solutions that meet NCDOT design standards and criteria and identify both avoidable and unavoidable impacts.

Table 2-1 catalogues the parcels affected by the project that would have land-locked remnant acreage outside of the proposed ROW and control of access for the project. Specifically, the first column lists each area with land-locked parcels alphabetically. This letter index corresponds to the area identified in the figures included in Appendix A. Table 2-1 also includes a parcel identification number, known ownership information, approximate remnant acreage, existing access, whether or not a building structure occurs on the remnant portion of the parcel, and summary of access issues and/or solutions. This summarized information allowed the design team to review access for each parcel (or group of parcels) and determine the viability of providing access to each parcel. Parcels recommended for further evaluation are highlighted in green, and were carried into the next step of the study process where design solutions were developed and quantified.

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	ID. Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks	
			Kemaning		Remaining	Further Analysis No Further Analysis	
R-2721							
А	1	NC Turnpike Authority	0.9	Adjoining Parcel	No	State owned parcel.	
A	2	Blount, Katherine J	0.30	Adjoining Parcel	No	Will maintain access through adjoining parcel.	
В	3	Triangle Greenways Council	14	None	No	Will maintain access through proposed greenway culvert crossing	
С	4	Not Used	N/A				
	5	NC Department of Transportation	1.65	None	No	Advance Acquisition Property.	
	6	H&B Stephenson Family LLC	5.31	Turner Dr.	No	Access could be provided from Sunset Lake Rd.	
	7	McKoy, Charles	0.73	Sunset Lake Road	No	Small undeveloped remnent of a larger tract	
D	8	NC Department of Transportation	2.73	Sunset Lake Road	No	Advance Acquisition Property.	
	8A	NC Department of Transportation	0.58	Sunset Lake Road	No	Advance Acquisition Property.	
	9	Abdel-Ghani, Tawfiq Asad	5.06	Sunset Lake Road	No	Will maintain access through adjoining parcel.	
	10	Abdel-Ghani, Tawfiq Asad	9.03	Sunset Lake Road	No	Will maintain access through adjoining parcel.	
	11	E&M Johnson Enterprises Inc.	0.33	Holly Springs Road	No	Access not allowed along Holly Springs Road due to interchange.	
	12	E&M Johnson Enterprises Inc.	0.48	Holly Springs Road	No	Access not allowed along Holly Springs Road due to interchange.	
	13	Reynolds, Anna	1.06	Holly Springs Road	Yes	Access available to Holly Springs Road	
	14	Wonder Day Partnership	1.10	Holly Springs Road	No	Access could be provided by connecting Wesley Ct and Fairview St or by	
	15	SECU RE INC	0.11	N. Carroll St. to Fariview St.	No	Minimal acerage left after Right Way	
	16	Ding, Xuezhou	0.45	N. Carroll St. to Fariview St.	Yes		
	17	Howington Properties LLC	0.4	N. Carroll St. to Fariview St.	Yes		
	18	Matthews Margaret Sutton	0.34	N. Carroll St. to Fariview St.	No	Access could be provided by connecting Wesley Ct and Fairview St or by	
	19	Smith, John	0.48	N. Carroll St. to Fariview St.	No	extending Suncliffe Ct to Holly Springs Rd	
	20	Smith, Debra Ann Whitt	0.46	N. Carroll St. to Fariview St.	No		
	21	Ding, Xuezhou	0.23	Fairview Street	No		
Е	22	Morris, Gwendolyn	0.31	Holly Springs Road	No	Access not allowed along Holly Springs Road due to interchange.	
	23	Gensinger, John & Jones, David	0.3	Fairview Street	Yes		
	24	Gensinger, John & Jones, David	0.42	Fairview Street	Yes		
	25	Sullivan, Kenneth	0.37	Fairview Street	Yes		
	26	Gensinger, John & Jones, David	0.82	Fairview Street	Yes		
	27	Cromer, Gary & Rhonda	0.44	S. Carroll St. to Fairview St.	No	Access could be provided by connecting Wesley Ct and Fairview St or by	
	28	Walker, Charles	0.44	S. Carroll St. to Fairview St.	Yes		
	29	Nederhoff, Daniel	0.45	S. Carroll St. to Fairview St.	Yes	extending Suncliffe Ct to Holly Springs Rd	
	30	Howell, Timothy & Donna	0.45	S. Carroll St. to Fairview St.	Yes		
	31	Walton, Russell Lee	0.45	S. Carroll St. to Fairview St.	Yes		
	32	Harris, Teresa Starr	0.46	S. Carroll St. to Fairview St.	Yes		
	33	Jennings, Roger & Hedda	0.57	S. Carroll St. to Fairview St.	Yes		

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Rei	marks	
			Kemaning		Remaining	Further Analysis	No Further Analysis	
	34	Jennings, Hedda	0.5	Public Dr.	Yes			
	35	Oney, Darrell & Rose	0.6	S. Carroll St. to Fairview St.	irview St. Yes			
	36	Weaver, Ricky	0.57	S. Carroll St. to Fairview St.	Yes			
	37	Hooker, Francis	0.69	Suncliffe Ct.	Yes	_		
	38	Grant, Steven & Yong	0.69	Suncliffe Ct.	Yes	Access could be provided by coppe	ecting Wesley Ct and Fairview St or by	
	39	Grant, Steven & Yong	0.73	Suncliffe Ct.	Yes	· ·	Ct to Holly Springs Rd	
	40	Griffin, Kelly & Kevin	0.69	Suncliffe Ct.	Yes	extending sunctine	Ct to Holly Springs Ku	
	41	Arrington, Phillip & Brenda	0.69	Suncliffe Ct.	Yes			
	42	Arteaga, Jose & Maria	0.69	Suncliffe Ct.	Yes			
	43	Burl, Preston & Nancy	0.71	Suncliffe Ct.	Yes			
	44	Jones, Shelton	0.76	Suncliffe Ct.	No			
	45	Wiggins, Beulah	4.29	Holly Springs Road	Yes	Access across	adjoining parcel	
	46	Arteaga Construction Inc.	0.7	N. Bell Haven St.	Yes			
	47 Pippin, Mary & Jeffrey	Pippin, Mary & Jeffrey	0.55	N. Bell Haven St.	Yes			
	48	Ding, Xuezhou	0.93	N. Bell Haven St.	Yes			
	49	Barrett, Timothy & Linda	0.48	N. Bell Haven St.	Yes			
	50	Pathan, A Karim & Jubeda	0.48	N. Bell Haven St.	Yes			
	51	Gensinger, John	0.96	S. Bell Haven St.	Yes			
Е	52	Jones, Leamon Jr.	0.96	S. Bell Haven St.	Yes			
-	53	Stephens, Aubrey Lee Jr & Bonnie	0.95	S. Bell Haven St.	Yes			
	54	Wilson, Nellie & James	0.55	New Haven St.	Yes			
	55	Wilson, Nellie	0.48	New Haven St.	Yes			
	56	Gensinger, John	0.44	New Haven St.	Yes	1		
	57	Ding, Xuezhou	0.45	New Haven St.	No	Access could be provided by coppe	ecting Wesley Ct and Fairview St or b	
	58	Ding, Xuezhou	0.48	New Haven St.	No	•	Ct to Holly Springs Rd	
	59	Fisher, Jason Ray	0.52	New Haven St.	Yes	exterioring Juneiline	et to nony springs nu	
	60	Callahan, Nathaniel	0.89	Fair Haven St.	Yes			
	61	Alderson, Bruce & Jennifer	0.76	N. Bell Haven St.	Yes	1		
	62	Davy, Thomas	0.75	New Haven St.	Yes			
	63	Jones, Gregory	0.5	N. Bell Haven St.	Yes	1		
	64	Justice, John & Helen	0.49	N. Bell Haven St.	Yes			
	65	Ellington, James & Elizabeth	0.49	N. Bell Haven St.	Yes			
	66	Pinkard, Janet & Richard	0.71	N. Bell Haven St.	Yes			
	67	Benitez, Olga & Bernardo	0.71	Suncliffe Ct.	Yes			
	68	Mack, Louise & John	0.85	S. Carroll St. to Fairview St.	Yes			
	69	Ding, Xuezhou	0.65	Fair Haven St.	Yes			
	70	Arteaga-Lara, Stephanie	0.63	Fair Haven St.	Yes			

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Rer	marks	
						Further Analysis	No Further Analysis	
	71	Arteaga, Jose & Maria	1.08	Fair Haven St.	Yes			
	72	Hauver, Robert & Doris	0.51	Fair Haven St.	Yes			
	73	Ding, Xuezhou	0.58	New Haven St.	No			
	74	Gensinger, John & Kenneth	0.45	Fair Haven St.	Yes			
	75	Starzman, Ronald	0.46	Fair Haven St.	Yes			
	76	Bolton, Cecillia	0.48	Fair Haven St.	Yes			
	77	Lopez Gomez, Epifanio	0.47	Fair Haven St.	Yes			
	78	Nederhoff, Daniel	0.51	S. Carroll St. to Fairview St.	Yes			
	79	Smith, John Christian	0.47	Fair Haven St.	Yes			
	80	Nederhoff, Daniel	0.57	S. Carroll St. to Fairview St.	Yes			
	81	Sutterfield, George & Pamela	0.45	Fair Haven St.	No			
	82	Nederhoff, Daniel	0.68	S. Carroll St. to Fairview St.	Yes			
	83	Sutterfield, George & Pamela	0.43	Fair Haven St.	Yes			
	84	Sullivan, Kenneth	1.01	S. Carroll St. to Fairview St.	Yes			
	85	Wilson, Tonya & Cianna	0.69	S. Carroll St. to Fairview St.	Yes			
	86	J&D Property Management	0.82	Fair Haven St.	Yes			
_	87	Zhang, Huanqing	0.52	Fair Haven St.	Yes	Access could be provided by connecting Wesley Ct and Fairview St or by		
E	88	Gensinger, John	0.61	Fair Haven St.	Yes		Ct to Holly Springs Rd	
	89	Verhoeven, Cary Dale	0.82	Fair Haven St.	Yes		, , ,	
	90	Madden, Gary	1.78	Fair Haven St.	No			
	91	Tingen, Robert & Tillie	3.11	Fair Haven St.	Yes			
	92	Millis, Josepheus	0.6	Fair Haven St.	Yes			
	93	Sullivan, Kenneth	0.83	Fair Haven St.	Yes			
	94	Taylor, James & Brenda	0.86	Fair Haven St.	Yes			
	95	Gensinger, John	0.54	Fair Haven St.	Yes			
	96	Steele, Ronnie	0.53	Fair Haven St.	Yes			
	97	Curtis, Robert Michael	0.74	Fair Haven St.	Yes			
	98	Jones, Randy & Larry	6.37	Fair Haven St.	Yes			
	99	Jones, Randy & Larry	0.52	Fair Haven St.	Yes			
	100	Harvey, Henry & Elevlyn	1.93	S. Carroll St. to Fairview St.	No			
	101	Hair, William & Willie	1.59	S. Carroll St. to Fairview St.	Yes			
	102	Lester, Mary	1.16	S. Carroll St. to Fairview St.	Yes			
	103	Davis, Johnie & Judy	1.77	Ashley Rd.	Yes			
	104	Johnson, Robert Armaah	0.69	Ashley Rd.	No			
	105	Ding, Xuezhou	0.86	S. Carroll St. to Fairview St.	No			
	106	Williford, David & Steven	0.49	Ashley Rd.	Yes			

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks
						Further Analysis No Further Analysis
	107	Williford, David & Steven	0.48	Ashley Rd.	Yes	
	108	Rangel, Sendi Mendoza & Ignacio Terrones	0.49	Ashley Rd.	Yes	
	109	DWB Properties	0.73	S. Carroll St. to Fairview St.	Yes	
	110	Reams, James	1.09	S. Carroll St. to Fairview St.	Yes	
	111	Harte, Virgina & John	0.98	Ashley Rd.	Yes	
	112	Nederhoff, Daniel	0.47	Ashley Rd.	Yes	
	113	Nederhoff, Daniel	0.48	Ashley Rd.	Yes	
	114	Nederhoff, Daniel	0.54	S. Carroll St. to Fairview St.	Yes	
	115	Welch, Leatta	0.46	Ashley Rd.	Yes	
	116	Shuller, Edgar	0.41	S. Carroll St. to Fairview St.	Yes	
	117	Ding, Xuezhou	0.47	Ashley Rd.	Yes	
	118	Sullivan, Kenneth	0.5	S. Carroll St. to Fairview St.	Yes	
	119	McCarthey, Yvelyne & Henry	0.48	Ashley Rd.	Yes	
	120	Rush, Annie	0.48	S. Carroll St. to Fairview St.	Yes	
	121	Ding, Xuezhou	0.45	Ashley Rd.	Yes	
	122	Jennings, Hedda	0.48	S. Carroll St. to Fairview St.	Yes	Assess sould be presided by compositing Wesley Chand Fairnissy Chan by
Е	123	Adams, Dempsey Heirs	0.45	Ashley Rd.	Yes	Access could be provided by connecting Wesley Ct and Fairview St or by extending Suncliffe Ct to Holly Springs Rd
	124	Norris, Geraldine	0.46	S. Carroll St. to Fairview St.	Yes	extending sunctine ct to notify springs ku
	125	Jennings, Hedda	0.44	Ashley Rd.	Yes	
	126	Ellington, Joan	0.43	S. Carroll St. to Fairview St.	Yes	
	127	Aqua North Carolina, Inc.	0.47	Ashley Rd.	No	
	128	Ding, Xuezhou	0.52	S. Carroll St. to Fairview St.	Yes	
	129	Aqua North Carolina, Inc.	0.49	Ashley Rd.	Yes	
	130	Davis, Johnie & Judy	0.5	Ashley Rd.	Yes	
	131	Davis, Johnie & Judy	0.51	Ashley Rd.	Yes	
	132	Williams, Danny	0.51	Ashley Rd.	Yes	
	133	Davis, Donald	0.51	Ashley Rd.	Yes	
	134	Davis, Donald	0.53	Ashley Rd.	Yes	
	135	Davis, Donald	0.3	Ashley Rd.	Yes	
	136	136 Gensinger, John 0.28	Ashley Rd.	No		
	137	Gensinger, John	0.54	Ashley Rd.	No	
	138	Gensinger, John	0.49	Ashley Rd.	Yes	
	139	Jordan, Karen	0.55	Ashley Rd.	Yes	
	140	Cole, Donald	0.52	Ashley Rd.	Yes	
	141	Ding, Xuezhou	0.52	Ashley Rd.	Yes	

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Ren	narks	
					g	Further Analysis	No Further Analysis	
	142	Clark, Brian	0.56	Ashley Rd.	No			
	143	Clark, Brian	0.52	Ashley Rd.	Yes			
	144	J&D Property Management	0.53	Ashley Rd.	No			
	145	J&D Property Management	0.49	Ashley Rd.	Yes			
	146	J&D Property Management	0.54	Ashley Rd.	Yes			
	147	Gensinger, John	0.57	S. Carroll St. to Fairview St.	Yes			
	148	Gensinger, John	0.47	S. Carroll St. to Fairview St.	Yes			
	149	Gensinger, John	0.49	S. Carroll St. to Fairview St.	Yes			
	150	Nutt, Bonnie	0.47	S. Carroll St. to Fairview St.	Yes			
	151	Lowery, Ronald & Stella	0.37	S. Carroll St. to Fairview St.	No			
	152	Lowery, Ronald & Stella	0.43	Oakland Dr.	Yes			
	153	Nederhoff, Daniel	0.43	Oakland Dr.	Yes			
	154	Howell, Timothy & Jennifer	0.57	Oakland Dr.	Yes	Access could be provided by connecting Wesley Ct and Fairview St or b		
	155	Craven, Keith & Robert	0.85	Oakland Dr.	Yes	extending Suncliffe Ct to Holly Springs Rd		
	156	Gensinger, John	0.4	Oakland Dr.	Yes			
Е	157	Gensinger, John	0.39	Oakland Dr.	Yes			
	158	Gensinger, John	0.53	Oakland Dr.	No			
	159	Lynn, Bobby & Mary	2.15	Oakland Dr.	Yes			
	160	Sprague, Peter	2.35	Oakland Dr.	Yes			
	161	Battle, Mary	0.42	Oakland Dr.	Yes			
	162	Gensinger, John	0.4	Oakland Dr.	Yes			
	163	Nederhoff, Daniel	0.41	Spring St	Yes			
	164	Ottaway, Danny & Joan	0.45	Spring St	Yes			
	165	Nederhoff, Daniel	0.24	Spring St	Yes			
	166	Boger, George	3.83	Spring St	No			
	167	NC Department of Transportation	2.22	Sunrise Ave	No	Advance Acqu	isition Property.	
	168	Morris, Leatha	0.61	Spring St	Yes	Access could be provided by coppe	cting Wesley Ct and Fairview St or by	
	169	Duke, Josehyne Trust	0.48	N. Carroll St. to Fariview St.	No		Ct to Holly Springs Rd	
	170	Duke, Josehyne Trust	0.47	N. Carroll St. to Fariview St.	Yes	exterioring Suricinie	ct to nony springs ku	
	171	Nederhoff, Daniel	0.38	Oakland Dr.	Yes	Access could be provided by coppe	cting Wesley Ct and Fairview St or by	
	172	Nederhoff, Daniel	0.5	Oakland Dr.	Yes	•	,	
	173	White, Tony Allen	0.49	Oakland Dr.	Yes	extending Suncliffe Ct to Holly Springs Rd		
	174	NC Department of Transportation	4.46	N/A	No	Advance Acqu	isition Property.	
F	175	Unkown	0.35	West Lake Rd.	No	Small undevelopable remnar	nt remainder of the large tract.	
	176	Rhodes, Pansy	0.72	Lorbacher Rd.	No	Small undevelopable remnar	nt remainder of the large tract.	

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks	
						Further Analysis No Further Analysis	
	177	Rhodes, Claybone & Pansy	8.49	Bells Lake Rd.	No	Access can be provided by extending Pony Soldier Dr to Oxford Gree Dr and utilized existing ROW connecting Oxford Green Dr to Parcel 1	
	178	Ball, William Alton	1.33	Oxford Green Dr.	Yes		
	179	Ozment, Julius & Teresa	1.78	Oxford Green Dr.	Yes		
	180	Guertin, Elizabeth & Paul	2.03	Oxford Green Dr.	Yes		
	181	Thoemmes, Tammy	1.68	Oxford Green Dr.	Yes		
	182	Street, Brett & Jennifer	0.8	Oxford Green Dr.	Yes		
	183	Conversano, Frank & Sara	0.8	Oxford Green Dr.	Yes		
	184	Hilton, Dennis & Sharon	0.75	Oxford Green Dr.	Yes		
	185	Cooper, Linda	0.69	Oxford Green Dr.	Yes	A Caldian Data Outside delay series dia a Danie Caldian Data Outside Con-	
	186	Gordon, Charles & Heather	0.69	Oxford Green Dr.	Yes	Access can be provided by extending Pony Soldier Dr to Oxford Gree Dr or connecting Oxford Green Dr to Truelove Dr.	
	187	Cole, Twyla	0.69	Oxford Green Dr.	Yes		
	188	Conroy, Jeremy	0.7	Oxford Green Dr.	Yes		
	189	Blakesley, Susan	0.94	Oxford Green Dr.	Yes		
	190	Barnes, Patrick & Linwood	1.59	Oxford Green Dr.	Yes		
6	191	Lake, Heather	1.61	Oxford Green Dr.	Yes		
G	192	Mowery, Herman	1.07	Oxford Green Dr.	Yes		
	193	Mullin, Charles & Julia	1.65	Oxford Green Dr.	Yes		
	193A	Thiele, Karl & Mary	2.56	Oxford Green Dr.	Yes	Access can be provided by connecting Oxford Green Dr to Truelove D	
	194	Clear, Michael & Lauren	0.75	Oxford Green Dr.	Yes	Access can be provided by connecting Oxford Green Dr to Truelove D	
	195	Lamb, Elizabeth	0.13	Oxford Green Dr.	No	Small remnant remainder of the large tract.	
	196	Ferguson, Lowell & Chelsy	0.94	Bells Lake Rd.	Yes		
	197	Guy, Randy & Steve	0.67	Bells Lake Rd.	Yes	Access can be provided by connecting Oxford Green Dr to Truelove D	
	198	Guy, Randy & Steve	0.71	Bells Lake Rd.	No	Access can be provided by connecting Oxford Green by to Truelove E	
	199	JH/MH Holdings LLC	1.87	Bells Lake Rd.	Yes		
	200	Blevins, Ricky & Twilah	0.87	Bells Lake Rd.	Yes		
	201	Strickland, Ralph	1.79	Bells Lake Rd.	Yes		
	202	Hogan, Richard & Mary	0.89	Bells Lake Rd.	Yes	Access can be provided with service road from Bells Lake	
	203	Deans, Carol & James	5.54	Bells Lake Rd.	No		
	204	Yates, Willie Heirs	5.96	Highland Creek Dr.	No		
	205	Deans, Carol & James	0.14	Bells Lake Rd.	No	Small undevelopable remnant remainder of the large tract.	
	206	Grapper Investments, LLC	0.04	Bells Lake Rd.	No	Small undevelopable remnant remainder of the large tract.	

TABLE 2-1: PARCEL EVALUATION

IABLE	- 1. 1 AIXO	ELEVALUATION	1			1	
Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Rem	arks
			o l			Further Analysis	No Further Analysis
	207	Stegeman, Sandra & Jerry	0.56	Bells Lake Rd.	No	Will lose access to Bells Lake Rd. due to C/A	
G	208	Baker, John & Marsha	0.92	Bells Lake Rd.	Yes	Will lose access to Bel	ls Lake Rd. due to C/A
J	209	NC Department of Transportation	2.2	Bells Lake Rd.	No	Advance Acqui	sition Property.
	210	Rhodes, Claybone & Pansy	1.04	Bells Lake Rd.	No	Access through	adjoining parcel
	211	Prior Construction Co. Inc.	0.7	Buckhorn Dr.	No		
	212	Prior Construction Co. Inc.	1.46	Buckhorn Dr.	No	Access can be provided by extendin	g Deerhorn Dr. to Deer Meadow Dr
	213	Prior Construction Co. Inc.	0.82	Buckhorn Dr.	No	Access can be provided by exteriain	g beerborn br. to beer weadow br.
	214	Samjlagic, Nijaz & Mirsada	0.62	Deer Meadow Dr.	Yes		
	215	NC Department of Transportation	0.15	Deer Meadow Dr.	No	Advance Acqui	sition Property.
	216	Wooten, Annette & Tim	0.49	Deer Meadow Dr.	Yes	Parcel will lose access to De	eer Meadow Dr. due to C/A
	217	Dean, Anthony & Carolyn	0.61	Buckwood Dr.	Yes		
	218	Tutor, Karon & Sharon	0.69	Buckwood Dr.	Yes	Access would require having two no	on-affected narcels to connect Deer
	219	Price, Elise & Christopher	0.7	Pineslope Dr.	Yes	Access would require buying two non-affected parcels to connect Defended Meadow Dr. and Pineslope Dr.	
	220	Vines, Kenneth & Judy	0.7	Pineslope Dr.	Yes		
	221	Not Used	N/A				
	222	Barnes, Charles & Lynn	0.71	Pineslope Dr.	Yes		
	223	Capital Match LLC	0.72	Pineslope Dr.	Yes		
	224	Dickerson, Robert & Deborah	0.6	Pineslope Dr.	Yes	Access would require buying two no	an affected parcels to connect Door
Н	225	Spievogel, Linda	0.76	Buckwood Dr.	Yes		id Pineslope Dr.
	226	Pittman, Andrew & Teodora	0.84	Buckwood Dr.	Yes	Wieddow Dr. an	id Filleslope DI.
	227	Biagini, Anthony	0.86	Buckwood Dr.	Yes		
	228	Orr, Patricia	1.56	Buckwood Dr.	Yes		
	229	Rutherford, Neal & Joy	0.85	Fawnview Ct.	No	Usable remainder is s	small and undesirable
	230	Passner, Laura	0.97	Buckwood Dr.	Yes	Access would require buying two no	on-affected parcels to connect Deer
	231	Dickerson, Robert & Deborah	0.73	Pineslope Dr.	Yes	Meadow Dr. an	d Pineslope Dr.
	232	Wiseman, Mose & Martha	0.19	Buckwood Dr.	No	Small undevelopable remnan	t remainder of the large tract.
	233	NC Department of Transportation	0.12	Deer Meadow Dr.	No	Advance Acqui	sition Property.
	234	Coleman, Grant & Susan	0.06	Fawnview Ct.	No	Small undevelopable remnan	t remainder of the large tract.
	235	Bowser, Maria	0.62	Fawnview Ct.	No	Access from Deer Meadow would r	require buying non-affected parcel.
	236	Mills, Willie & Eva	0.35	Fawnview Ct.	No	Small undevelopable remnan	t remainder of the large tract.
1	237	Atkins, Steven & John	4.01	Johnson Pond Rd.	No	Access could be provided	d from Heavy Weight Dr.
	238	Williams, JW Heirs	0.18	Johnson Pond Rd.	No	Small undevelopable remnan	t remainder of the large tract.
	239	Williams, Kinston & Eula	0.36	Johnson Pond Rd.	No	Small undevelopable remnan	t remainder of the large tract.

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks		
						Further Analysis No Further Analysis		
	240	Williams, JW Heirs	0.79	Johnson Pond Rd.	No	Small undevelopable remnant remainder of the large tract.		
Н	241	Ennis, Terry	0.06	Johnson Pond Rd.	No	Small undevelopable remnant remainder of the large tract.		
	242	Ennis & Atksins Nursery	0.11	Johnson Pond Rd.	No	Small undevelopable remnant remainder of the large tract.		
	243	Ennis, Joseph Leo Ennis, Yvonne Gower	8.8	Johnson Pond Rd.	No	Access could be provided with a service road running parellel to C	C/A	
	244	Arnold, Winifred W	9.71	Sugg Farm Ln.	No	Hom take wheeler ku.		
	244A	Arnold, Winifred W	2.29	Sugg Farm Ln.	No			
	245	Arnold, Winifred W Arnold, Winifred W	0.34	Sugg Farm Ln.	No			
I	246	Walton, Helen A	2.69	Sugg Farm Ln.	No	Access could be provided by connecting Arnold Park Ln and Sugg Farm Ln		
	247	O'Bryant, Patrick C O'Bryant, Hubert A	22.36	Sugg Farm Ln.	No			
	248	Walton, Helen A	6.2	Sugg Farm Ln.	No			
	249	Rudd, Ronda	1.1	Sugg Farm Ln.	Yes			
	250	Walton, Jonathan Bruce	1.9	Sugg Farm Ln.	Yes			
	251	Wetherill, Ted J	1.14	Sugg Farm Ln.	Yes			
	252	Sears, Nancy S Sears, James M	1.64	Donny Brook Rd.	No	Small undevelopable remnant remainder of the large tract.		
	253	NC Department of Transportation	15.83	Donny Brook Rd.	No	Advance Acquisition Property.		
	254	Lucas, Kenneth A	0.47	Fayetteville Rd.	No			
	255	Lucas, Kenneth A	0.21	Fayetteville Rd.	No			
1 .	256	Nash, Anne Marie	0.35	Fayetteville Rd.	No	Access would cross non-affected properties to gain access outside	the	
,	257	Nash, Annie M	0.36	Fayetteville Rd.	Yes	controlled access at the interchange.		
	258	Lewis, Lubie L Heirs	0.37	Fayetteville Rd.	Yes			
	259	Tingen Broadwell Family LLC	0.08	Fayetteville Rd.	No			
	260	Tingen Broadwell Family LLC	14.93	Fayetteville Rd.	No	Access could be provided by utilized existing ROW to connect parce Allen St.	el to	

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage	FYISTING ACCESS	Structure	Remarks	
			Remaining	· ·	Remaining	Further Analysis No Further Analysis	
R-2828	I.				I		
	261	Circle M Properties Inc	0.88	Advantage Way	No		
	262	Rowland, Neal Morris	1.91	Chris Dr.	No	Access could be provided with service road from Fanny Brown Rd.	
K	263	NC Department of Transportation	11.09	Fanny Brown Rd.	No	Access could be provided with service road from Fairify Brown Na.	
	264	Not Used	N/A				
	265	NC Department of Transportation	2.79	Fanny Brown Rd.	No	Advance Acquisition Property.	
	266	King, Royal Mark David King, Sandra Lynn	20.14	Fanny Brown Rd.	N/A	Access could be provided by utilizing existing ROW to connect parcel to Trotter Dr.	
	267	Evans, Nannie S	18.07	Old Stage Rd.	Yes		
	268	Mcdaniel, Carlton S Jr Mcdaniel, Cynthia W	1.32	Old Stage Rd.	Yes		
	269	Ledbetter Timber & Pulpwood Inc	6.29	Old Stage Rd.	Yes		
	270	Dickens, Kenneth F Dickens, Sharron E	3.91	Rolling Farm Dr.	Yes		
	271	Buchanan, Wesley S Buchanan, Wendy S	1.09	Rolling Farm Dr.	Yes		
	272	Harrison, Andrew Craig	1.23	Rolling Farm Dr.	Yes		
	273	Brown, Richard A Brown, Janette S	2	Rolling Farm Dr.	Yes		
	274	Chamblee, Allan Chamblee, Constance Lucas	0.6	Rolling Farm Dr.	Yes		
L	275	Pham, Michael R Pham, Sophia Auco	0.99	Rolling Farm Dr.	Yes	Access could be provided with a service road from Old Stage Rd to Rolling Farm Dr.	
	276	Garcia, Eric	0.49	Rolling Farm Dr.	Yes	Rolling Farm Dr.	
	277	Johnson, Timothy Wayne Johnson, Kimberly Call	0.49	Rolling Farm Dr.	Yes		
	278	Mcgee, Roy T III Mcgee, Tammy B	0.46	Rolling Farm Dr.	Yes		
	279	Cummings, Omar	0.59	Rolling Farm Dr.	Yes		
	280	Barnes, Gary S Barnes, Patricia A	1.07	Rolling Farm Dr.	Yes		
	281	Tew, Robert Tew, Phyllis	2.48	Rolling Farm Dr.	Yes		
	282	Old Stage Place Homeowners Assc Inc	3.71	No Access	No		
	283	Pfenning, Tim L Pfenning, Betsy S	2.43	Rolling Farm Dr.	Yes		
	284	Barfield, Thomas Goodson, Shannon	0.84	Rolling Farm Dr.	Yes		
	285	Morrisey, Gloria M	0.72	Rolling Farm Dr.	Yes		

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Ren	narks	
			Kemaning		Remaining	Further Analysis	No Further Analysis	
	286	Greene, Wondus L Greene, Tamara L	0.71	Rolling Farm Dr.	Yes			
	287	Galloway, Jamela R Galloway, Michael K	0.64	Rolling Farm Dr.	Yes			
	288	Ball Rentals LLC	0.59	Rolling Farm Dr.	Yes		service road from Old Stage Rd to Farm Dr.	
	289	Not Used	N/A			Kolling	railli Di.	
	290	Pulliam, Larry C Pulliam, Gloria Ann	0.55	Rolling Farm Dr.	Yes			
	291	House, John Barton, Magdalen	1.05	Rolling Farm Dr.	Yes			
	292	Not Used	N/A					
	293	Morf, Fredi	0.53	Rolling Farm Dr.	Yes			
	294	Dineen, Matthew Dineen, Angela M	0.48	Rolling Farm Dr.	Yes	Access could be provided with a service road from Old Stage Rd to		
	295	Brown, Danny R Brown, Tonya M	0.48	Rolling Farm Dr.	Yes	Rolling Farm Dr.		
	296	Akinbuli, Akin Laurence	0.66	Rolling Farm Dr.	Yes			
	297	Ball, Forrest H Ball, Delores G	0.12	Old Stage Rd.	No	Access could be provided by realigning Rolling Meadows and addin service road from Rolling Meadows Dr.		
L	298	Old Stage Place Homeowners Assc Inc	0.17	Rolling Farm Dr.	No			
	299	Braaten, David Braaten, Lena A	1.31	Rolling Farm Dr.	Yes			
	300	Blackman, Jerry D Blackman, Betty Jean	0.49	Rolling Farm Dr.	Yes	A I d b i d - di d - d	annia and fram Old Stars Dd to	
	301	Crawley, Richard R Jr Crawley, Melanie P	0.76	Rolling Farm Dr.	Yes		service road from Old Stage Rd to Farm Dr.	
	302	Lawhorne, Harvey W	0.8	Rolling Farm Dr.	Yes			
	303	Agbodjan, Armel Akouete	0.55	Rolling Farm Dr.	Yes			
	304	West, Joseph H West, Debra S	0.68	Rolling Farm Dr.	Yes			
	305	Duval, Garfield L Duval, Arvian I	0.85	Rolling Farm Dr.	Yes			
	306	Cecil, David Allan	1.06	Old Stage Rd.	Yes	Access could be provided with a service road from Old Stage Rd to Rolling Farm Dr. and a connection through another parcel		
	307	Aqua North Carolina, Inc	0.72	Rolling Farm Dr.	Yes	•	service road from Old Stage Rd to Farm Dr.	
	308	Ball, Forrest H Ball, Delores G	5.91	Old Stage Rd.	No	Access could be provided by ovter	nding Trotter Dr., but would require	
	309	Ball, Forrest H	12.51	Old Stage Rd.	Yes		enance of neighborhood roads.	

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks
						Further Analysis No Further Analysis
	310	Ball Rentals LLC	0.92	Old Stage Rd.	Yes	Access could be provided by realigning Rolling Meadows and adding a service road from Rolling Meadows Dr. (Access through adjoining parcel)
	311	Bowling, Julia S	0.43	Old Stage Rd.	No	Will lose access to Old Stage Rd. due to C/A
	312	Not Used	N/A			
	313	Not Used	N/A			
	314	Not Used	N/A			
	315	Not Used	N/A			
	316	Not Used	N/A			
	317	Not Used	N/A			
	318	Not Used	N/A			
	319	Not Used	N/A			
	320	Not Used	N/A			
	321	Not Used	N/A			
	322	Not Used	N/A			
	323	Not Used	N/A			
	324	Not Used	N/A			
	325	Not Used	N/A			
L	326	Not Used	N/A			
	327	Not Used	N/A			
	328	Not Used	N/A			
	329	Not Used	N/A			
	330	Not Used	N/A			
	331	Not Used	N/A			
	332	Not Used	N/A			
	333	Not Used	N/A			
	334	Rackley, Sallie	0.64	Old Stage Rd.	No	Access will not be allowed along Old Stage Rd. due to interchange
	335	Mary T Ball Properties LLC	14.35	Old Stage Rd.	No	Access could be provided with service road from Gentle Slope Way
	335A	Mary T Ball Properties LLC	0.12	Old Stage Rd.	No	Small undeveloped remnant remainder of a larger tract
	335B	Mary T Ball Properties LLC	2.64	Old Stage Rd.	No	Undeveloped remnant remainder of a larger tract
	336	Mary T Ball Properties LLC	3.92	Old Stage Rd.	No	Access could be provided with conice read from Cartle Clare West
	337	Mary T Ball Properties LLC	5.02	Old Stage Rd.	No	Access could be provided with service road from Gentle Slope Way
	338	Mary T Ball Properties LLC	21.63	Old Stage Rd.	No	Access could be provided with conice read from Cartle Clare Man
	339	Carwell, Ronald G CarwellL, Vickie R	1.79	Old Stage Rd.	Yes	Access could be provided with service road from Gentle Slope Way

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Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks
					1.6	Further Analysis No Further Analysis
	340	Neal, Sherry Upchurch Ball, David W /Trustee	7.1	Holland Church Rd.	No	Access could be provided with service road from Holland Church Rd (Access through adjoining parcel)
	341	Neal, Sherry Upchurch	12.08	Holland Church Rd.	No	Access could be provided with service road from Holland Church Rd
М	342	Mary T Ball Properties LLC	49.27	Holland Church Rd.	No	Access could be provided with service road from Holland Church Ku
IVI	342A	Mary T Ball Properties LLC	0.78	Holland Church Rd.	No	Small undeveloped remnant remainder of a larger tract
	343	Morin, Deane Joseph	4.02	Holland Church Rd.	No	
	344	Neal, Sherry Upchurch Ball, David W /Trustee	15.24	Holland Church Rd.	No	Access could be provided with service road from Holland Church Rd
	345	Auton, John L III	0.58	Sauls Rd.	No	Access would require buying property from non-affected parcel
	346	NC Department of Transportation	1.54	Pondsedge TRL	No	Advanced acquisition property
	346A	NC Department of Transportation	0.19	Pondsedge TRL	No	Advanced acquisition property
	346B	NC Department of Transportation	2.01	Pondsedge TRL	No	Advanced acquisition property
	347	NC Department of Transportation	2.14	Pondsedge TRL	Yes	Advanced acquisition property
	348	Wingo, Earl R Jr Wingo, Kelley Lynne	8.99	Pondsedge TRL	Yes	Access could be provided by realigning Pondsedge Trail to connect to Sauls Rd outside of controlled access.
	348A	Wingo, Earl R Jr Wingo, Kelley Lynne	0.15	Pondsedge TRL	No	Small undeveloped remnant reemainder of a larger tract
	349	Hicks, Linwood Thomas Hicks, Carolyn	0.57	Community Garden Rd	No	Small undeveloped remnant remainder of a larger tract
	350	Wake Acquisitions LLC	0.71	Joe Leach Rd.	No	Advanced acquisition property
	351	Simpkins, Walter E Jr	8.15	Joe Leach Rd.	No	
N	352	Waldo, Betty H Humpherson, Amy H	9.44	Joe Leach Rd.	No	Access could be provided by extending Community Garden Rd to run parallel to C/A
	353	Lassiter, Susan S	10.71	Joe Leach Rd.	No	
	354	Lassiter, Jerry C	1.4	Joe Leach Rd.	Yes	Access could be provided by realigning Joe Leach Rd. to run parallel to C/A
	355	Mcnally, Katie B	20.61	Joe Leach Rd.	No	Access could be provided by extending Community Garden Rd to run parallel to C/A
	355A	Mcnally, Katie B	5.21	Hunters Farm Rd	No	Access could be provided by realigning Joe Leach Rd., but would require buying the home from adjacent parcel.
	356	NC Department of Transportation	3.39	Jordan Rd.	No	Advanced acquisition property
	356A	NC Department of Transportation	3.67	Jordan Rd.	No	Advanced acquisition property
	357	NC Department of Transportation	3.49	Jordan Rd.	Yes	Advanced acquisition property
	358	Phillippe, Donald Keith Phillippe, Eric	0.9	Jordan Rd.	No	Small undeveloped remnant remainder of a larger tract

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Rem	narks
			_		, and the second	Further Analysis	No Further Analysis
	359	Ennis, David Lavon Ennis, T G	1.06	No Access	No	Small undeveloped remnan	t remainder of a larger tract
	360	Penny, Horace Donald	5.62	Benson Rd.	Yes	Access would require going through subdivision and buying property from non-affected parcel(s)	
	361	Not Used	N/A				
	362	Norris, Betty L	0.44	Benson Rd.	No	Small undeveloped remnan	t remainder of a larger tract
	363	Not Used	N/A				
	364	NC Department of Transportation	0.75	Benson Rd.	No	Advanced acqu	isition property
	365	Penny, Randy K	0.4	Benson Rd.	Yes		
0	366	Penny, Randy K	0.61	Benson Rd.	Yes	Access would require housing many	auto fue un men effected mensels and
	367	Mcghee, Robert L Mcghee, Barbara	0.61	Benson Rd.	Yes	Access would require buying property from non-affected parcels and moving the entrance to the back side of propery	
	368	Matthews, Robert Casey Matthews, Billie P	0.39	Benson Rd.	Yes		
	368A	Matthews, Billie Rose Matthews, Casey	0.85	Benson Rd.	Yes	Access would require long service road to serve small property remnai	
	369	NC Department of Transportation	6.25	Benson Rd.	No	Advanced acqu	isition property
	370	T H Turner Farms Inc	1.54	No Access	No	Small undeveloped remnan	t remainder of a larger tract
	371	Biggerstaff, Susan Adair	14.06	Reca Rd.	No	Access would require	e crossing Swift Creek
	372	City of Raleigh	9.27	Wrenn Rd.	No	Access would require huving non	-affected property, extending the
	373	Bryan, Jean Ball	44.87	Wrenn Rd.	No	, , ,	
P	374	B T & Betsy Henderson Family LLC Morris, Ashley Carlyle Jr	79.75	SR 5589	No	bridge over Swift Creek, and additional impacts to wetlands and streams	
P	375	B T & Betsy Henderson Family LLC Ch Young Properties LLC	58.62	SR 5589	No	Access would require buying non-affected property, extending the bridge over Swift Creek, and additional impacts to wetlands and	
	376	B T & Betsy Henderson Family LLC Ch Young Properties LLC	41.44	SR 5589	No		ugh adjoining parcel)

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks		
						Further Analysis No Further Analysis		
R-2829	T	T			1 1			
	377	Nixon, Joyce J	2.68	New Bethel Church Rd.	No	Access would not be allowed along I-540 due to interchange		
	378	Bryan, Jean Ball Robert Angus Bryan Sr Family Trust	1.4	New Bethel Church Rd.	No	Small undeveloped remnant remainder of a larger tract		
	379	Aman, John R	59.06	Hillington Rd.	No	Access could be provided by extending Alonzo Rd to parcel 379		
	379A	Aman, John R	1.12	Hillington Rd.	No	Access could be provided by exterialing Alonzo Na to parcer 379		
	380	Burnette, R Garland	37.28	White Oak Rd.	No	Access would require buying propery from non-affected parcel or		
	381	Burnette, R Garland	64.41	White Oak Rd.	No	extending Vitex St.		
	382	Gilchrist, Derrick G Gilchrist, Maggie Alaina	3.72	Old Cascade Dr.	Yes			
	383	Platinum Investors LLC	1.18	Old Cascade Dr.	Yes			
	384	Davis, Sarah Bell	0.23	Old Cascade Dr.	No			
	385	Davis, Sarah Bell	0.24	Old Cascade Dr.	No			
	386	Joyner, Leslie T Turner, Phyllis A	0.47	Old Cascade Dr.	Yes			
	387	Yarborough, Lenoris Jr	0.22	Old Cascade Dr.	No			
	388	Yarborough, Lenoris Jr	0.24	Old Cascade Dr.	No			
	389	Spencer, Mary I	0.24	Old Cascade Dr.	No			
	390	Spencer, Mary I	0.24	Old Cascade Dr.	No			
Q	391	Metzker, David W	0.46	Old Cascade Dr.	Yes			
	392	Bass, Lonzell Bass, Daisey	0.24	Old Cascade Dr.	No			
	393	Bass, Lonzell Bass, Daisey	0.23	Old Cascade Dr.	No			
	394	Hinton, Earnest Junior	0.24	Old Cascade Dr.	No	Access would require extending Tiffany Creek Dr to Old Cascade Dr.		
	395	Hinton, Earnest Junior	0.24	Old Cascade Dr.	No	Access would require extending finally creek bit to old cascade bit.		
	396	Baker, Joe Blue, Louise B	0.48	Old Cascade Dr.	Yes			
	397	Browning, Randall Browning, Tracy	0.96	Old Cascade Dr.	Yes			
	398	Leslie, Loris Heirs	0.23	Old Cascade Dr.	No			
	399	Holden, Willie Jr Heirs	0.25	Old Cascade Dr.	No			
	400	National Realty Co	0.24	Old Cascade Dr.	No			
	401	National Realty Co	0.24	Old Cascade Dr.	No			
	402	Davis, Willie C Davis, Virginia	0.24	Old Cascade Dr.	No			
	403	Davis, Willie C Davis, Virginia	0.24	Old Cascade Dr.	No			
	404	Lofton, Ernest	0.25	Old Cascade Dr.	No			
	405	Lofton, Ernest	0.25	Old Cascade Dr.	No			
	406	Robinson, Katie	0.48	Old Cascade Dr.	Yes			
	407	National Realty Co	0.24	Old Cascade Dr.	No			

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Ren	narks	
			ŭ		<u> </u>	Further Analysis	No Further Analysis	
	408	National Realty Co	0.25	Old Cascade Dr.	No			
	409	Rourk, Jvon Marcelle	0.25	Old Cascade Dr.	No			
	410	Burton, Jacquelyn M	0.25	Old Cascade Dr.	No			
	411	Cannon, Annie M Ham Louis, Kate Ham	0.25	Old Cascade Dr.	No			
	412	Cannon, Annie M Ham Louis, Kate Ham	0.24	Old Cascade Dr.	No			
	413	Williams, Willie Williams, Joyce	0.26	Old Cascade Dr.	No			
	414	Williams, Willie Williams, Joyce	0.23	Old Cascade Dr.	No			
	415	Johnson, Pamela Johnson, Allen	0.29	Old Cascade Dr.	Yes			
	416	Johnson, Pamela Johnson, Allen	0.31	Old Cascade Dr.	Yes			
	417	Johnson, Sandra K Johnson, Helen Louise	0.24	Old Cascade Dr.	Yes			
	418	Johnson, Sandra K Johnson, Helen Louise	0.24	Old Cascade Dr.	Yes			
	419	Willis, Johnsie M	0.48	Old Cascade Dr.	Yes	Access would require extending Tiffany Creek Dr to Old Cascad		
	420	Pope, Anthony M	0.48	Old Cascade Dr.	Yes			
Q	421	Aguilar, Lelis Y Gonzalez	0.48	Old Cascade Dr.	Yes		Fiffany Creek Dr to Old Cascade Dr.	
	422	Whitley, Donald Whitley, Valerie	0.96	Old Cascade Dr.	Yes			
	423	Woods, William M Jr Woods, Lucille R	0.25	Old Cascade Dr.	Yes			
	424	Woods, William M Jr Woods, Lucille R	0.24	Old Cascade Dr.	Yes			
	425	Reyes-Rea, Francisco Javier	0.49	Old Cascade Dr.	No			
	426	Lamberth, Dorothy W Heirs	0.24	Old Cascade Dr.	No			
	427	Lamberth, Dorothy W Heirs	0.24	Old Cascade Dr.	No			
	428	Mciver, Willie J Mciver, Frances H	0.24	Old Cascade Dr.	No			
	429	Mciver, Willie J Mciver, Frances H	0.24	Old Cascade Dr.	No			
	430	Mciver, Willie J Mciver, Frances H	0.25	Old Cascade Dr.	No			
	431	Mciver, Willie J Mciver, Frances	0.24	Old Cascade Dr.	No			
	432	Mciver, Willie J Mciver, Frances H	0.24	Old Cascade Dr.	No			
	433	Mciver, Willie J Mciver, Frances H	0.24	Old Cascade Dr.	No			
	434	Mciver, Willie J Mciver, Frances H	0.24	Old Cascade Dr.	No			
	435	Rea, Francisco Reyes	0.48	Old Cascade Dr.	No			
	436	Woods, Barbara	0.47	Old Cascade Dr.	Yes			

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Ren	narks		
						Further Analysis	No Further Analysis		
	437	Conyers, Frank Douglas Conyers, Margaret Best	0.49	Old Cascade Dr.	Yes				
	438	Darden, Joetta Farrar	0.72	Old Cascade Dr.	Yes				
	439	Gaskill, Richard P	0.48	Old Cascade Dr.	Yes				
	440	Mckithen, Yolanda	0.24	Old Cascade Dr.	No				
	441	Mckithen, Yolanda	0.24	Old Cascade Dr.	No				
	442	Sampson, Rosilyn	0.48	Old Cascade Dr.	Yes				
	443	Boykin, John Franklin	0.25	Old Cascade Dr.	No				
	444	Boykin, John Franklin	0.25	Old Cascade Dr.	No				
	445	Lenger, Jerry P	0.24	Old Cascade Dr.	Yes				
	446	Lenger, Jerry P	0.24	Old Cascade Dr.	No				
	447	Allen, Mollie Boylen Heirs	0.24	Old Cascade Dr.	No				
	448	Allen, Mollie Boylen Heirs	0.25	Old Cascade Dr.	No				
	449	Mitchell, Elizabeth Dodd Heirs	0.49	Old Cascade Dr.	Yes				
	450	Smith, Lila Mae Smith Samuel Lee Zachary Terry	0.5	Old Cascade Dr.	Yes				
Q	451	Smith, Lila Mae Smith Samuel Lee	0.24	Old Cascade Dr.	Yes	Access would require extending Tiffany Creek Dr to Old Cascade	Fiffany Creek Dr. to Old Cascade Dr		
Q	452	Smith, Lila Mae Smith, Samuel Lee Zachary	0.25	Old Cascade Dr.	No	Access would require exterioring	illiany creek bi to olu cascade bi.		
	453	Garris, Linwood E Garris, Holly B	0.25	Old Cascade Dr.	No				
	454	Garris, Linwood Garris, Holly B	0.24	Old Cascade Dr.	No				
	455	Mitchell, Charles Dodd	0.24	Old Cascade Dr.	No				
	456	Mitchell, Charles Dodd	0.29	Old Cascade Dr.	No				
	457	Foster, John Early III	0.25	Old Cascade Dr.	No				
	458	Oneal-Gamboa, Tisha	0.23	Old Cascade Dr.	No				
	459	Oneal-Gamboa, Tisha	0.24	Old Cascade Dr.	No				
	460	Leach, Zola M Heirs	0.24	Old Cascade Dr.	No				
	461	Leach, Zola M Heirs	0.25	Old Cascade Dr.	No				
	462	Bright, Pamela Batey Trustee Pamela Batey Bright Revocable Living Trust	0.25	Old Cascade Dr.	No				
	463	Bright, Pamela Batey Trustee Pamela Batey Bright Revocable Living Trust	0.27	Old Cascade Dr.	No				

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage	Existing Access	Structure	Rer	narks		
Aica	Tarcerib.	Tarcer Owner Name	Remaining	<u> </u>	Remaining	Further Analysis	No Further Analysis		
	464	Bright, Pamela Batey Trustee Pamela Batey Bright Revocable Living Trust	0.25	Old Cascade Dr.	No				
	465	Bright, Pamela Batey Trustee Pamela Batey Bright Revocable Living Trust	0.26	Old Cascade Dr.	No				
	466	Bright, Pamela Batey Trustee Pamela Batey Bright Revocable Living Trust	0.27	Old Cascade Dr.	No				
	467	Bright, Pamela Batey Trustee Pamela Batey Bright Revocable Living Trust	0.28	Old Cascade Dr.	No				
	468	Smith, Kenneth Bryant	0.24	Old Cascade Dr.	No				
	469	Smith, Kenneth Bryant	0.24	Old Cascade Dr.	No				
	470	Jones, Ellis R Jones, Ora M	0.23	Old Cascade Dr.	No				
	471	Jones, Ellis R Jones, Ora M	0.23	Old Cascade Dr.	No	Access would require extending Tiffany Creek Dr to Old Cascade D			
	472	Plummer, Linda P	0.81	Old Cascade Dr.	Yes				
Q	473	Edgerton, Dennis E Edgerton, Katie S	0.64	Old Cascade Dr.	Yes		Tiffany Creek Dr to Old Cascade Dr.		
	474	Yarbrough, Heather	0.64	Old Cascade Dr.	Yes				
	475	Joyner, Leslie T Joyner, Phyllis A	0.29	Old Cascade Dr.	Yes				
	476	Joyner, Leslie T Joyner, Phyllis A	0.26	Old Cascade Dr.	Yes				
	477	Sanders, William E	0.25	Villa St.	Yes				
	478	Sanders, William E	0.25	Villa St.	No				
	479	Mcgrath, Mark Robert Mcgrath, Nancy Joan	0.47	Villa St.	Yes				
	480	Ganus, George W	0.51	Old Cascade Dr.	Yes				
	481	Fuller, Kit	0.48	Old Cascade Dr.	Yes				
	482	Castillo, Isaac Matus Matus, Perla Juarez	0.45	Villa St.	Yes				
	483	Chrisp, Mozelle E	0.48	Villa St.	Yes				
	484	Mangum, Willard Heirs	0.26	Salem St	No				
	485	Mangum, Willard Heirs	0.24	Salem St	No				
	486	Bryant, Susan L	0.24	Salem St	No				
	487	Bryant, Susan L	0.2	Salem St	No				
	488	Bryant, Susan L	0.24	Salem St	No				

TABLE 2-1: PARCEL EVALUATION

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks
			Kemaning		Kemaning	Further Analysis No Further Analysis
	489	Mitchell, Edna	0.25	Old Cascade Dr.	Yes	
	490	Mitchell, Edna	0.26	Old Cascade Dr.	Yes	
	491	Harris, James A Jr	0.26	Old Cascade Dr.	No	
	492	Bradsher, Eric J	0.5	Salem St	Yes	
	493	Mendoza-Rivero, Davadip Gonzalez- Noyola, Celia	0.48	Salem St	Yes	
	494	Wilson, Linda Ruth	0.24	Branch St.	No	
	495	Wilson, Linda Ruth	0.27	Branch St.	No	
	496	Nunn, Louise E	0.23	Branch St.	No	
	497	Nunn, Louise E	0.24	Branch St.	No	
	498	Woods, Timothy L Woods, Barbara W	0.79	Old Cascade Dr.	Yes	
	498A	Harris, James A Jr	0.25	Old Cascade Dr.	No	
	499	Sinclair, Tristan	0.32	Old Cascade Dr.	No	
	500	Walls, Douglas Walls, Delnora W	0.3	Branch St.	No	
	501	Walls, Douglas Walls, Delnora W	0.23	Branch St.	No	
	502	Walls, Douglas Walls, Delnora W	0.26	Branch St.	No	
Q	503	Walls, Douglas Walls, Delnora W	0.26	Branch St.	No	Assessment require extending Tiffern, Creek Dute Old Cossed
ų ų	504	Walls, Douglas Walls, Delnora W	0.24	Branch St.	No	Access would require extending Tiffany Creek Dr to Old Cascade Dr.
	505	Walls, Douglas Walls, Delnora W	0.22	Branch St.	No	
	506	Walls, Douglas Walls, Delnora W	0.33	Branch St.	No	
	507	Keck, Charles D Jr Heirs	0.24	Amherst St.	No	
	508	Keck, Charles D Jr Heirs	0.24	Amherst St.	No	
	509	Keck, Charles D Jr Heirs	0.25	Amherst St.	No	
	510	Sanders, Levi Jr	0.22	Amherst St.	No	
	511	Sanders, Levi Jr	0.23	Amherst St.	No	
	512	Byrd, Della M	0.49	Old Cascade Dr.	Yes	
	513	Sinclair, Tristan	0.28	Old Cascade Dr.	No	
	514	Amherst 4304 Trust	0.48	Amherst St.	Yes	
	515	Byrd, Fred Heirs	0.24	Amherst St.	No	
	516	Byrd, Fred Heirs	0.22	Amherst St.	No	
	517	Turner, James Carlton Turner, Priscilla Wood	0.23	Amherst St.	Yes	
	518	Turner, James Carlton Turner, Priscilla Wood	0.24	Amherst St.	Yes	
	519	Mack, Paulette P	0.28	Amherst St.	No	

TABLE 2-1: PARCEL EVALUATION

A ====	Downel ID	Paged Owner Name	Aprox. Acreage	Cuicking Assess	Structure	Rer	narks	
Area	Parcel ID.	Parcel Owner Name	Remaining	Existing Access	Remaining	Franklan Analysis	No Further Analysis	
	520	Mack, Paulette P	0.31	Old Cascade Dr.	No	Further Analysis	No ruittiei Alialysis	
	521	Mack, Paulette P	0.31		No			
	522	Gulley, James	0.32	Lexington St. Lexington St.	Yes			
	523	English, Gregory	0.48	Lexington St.	No			
	524	g , g ,	0.48					
	525	Portier, Ellen M Portier, Wilfred		Lexington St.	No			
	526	Portier, Ellen M Portier, Wilfred Perez, Yasmin Rea, Francisco Reyes	0.24	Lexington St. Lexington St.	No Yes			
	527	Haywood, Charles	0.25	Lexington St.	No			
	528	Haywood, Charles	0.24	Lexington St.	No			
	529	Haywood, Charles	0.21	Lexington St.	No	Access would require extending	Tiffany Creek Dr to Old Cascade Dr.	
	530	Carwell, Ronald G Carwell, Vickie R	0.23	Lexington St.	No	Access would require extending finally creek bit to old caseace bit.		
	531	Wright, Lumichel	0.25	Lexington St.	No			
Q	532	Wright, Lumichel	0.28	Lexington St.	No			
	533	Ramon, Angie	0.29	Old Cascade Dr.	No			
	534	Ramon, Angie	0.25	Old Cascade Dr.	No			
	535	Wright, Doll Whitaker	0.45	Old Cascade Dr.	Yes			
	536	Wright, Derek L	0.47	Old Cascade Dr.	Yes			
	537	Wright, Lumichel	0.24	Old Cascade Dr.	No			
	538	Wright, Lumichel	0.24	Old Cascade Dr.	No			
	539	Parker, Kisha	1.23	White Oak Rd.	No	Access could be provided with a service rd running perpendicular Tiffany Creek Dr., but would require buying property from non-affe parcel		
	540	Peacock, Scott Fitzgerald Matthews, Sylvia Diane	0.28	White Oak Rd.	No	Access through	adjoining parcel	
	540A	Parrish, Ella Grace Parrish, Phillip West	0.62	White Oak Rd.	No	Access would require buying p	ropery from non-affected parcel	
	541	Hocutt, Victor A	2.95	Escondido Farm Rd.	Yes			
	541A	Dean, Donald Ray Dean, Kay M	0.33	Escondido Farm Rd.	No	Access could be provided with se	rvice road from White Oak Rd., but	
R	541B	Dean, Donald R Dean, Kay M	1.85	Escondido Farm Rd.	No	would require additional stream and wetland impacts		
	541C	Boyd, Clarence L Jr Boyd, Samantha B	2	Escondido Farm Rd.	Yes			
	541D	Caviness, John M	2.02	Escondido Farm Rd.	No			

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks		
			Kemaining		Kemaning	Further Analysis No Further Analysis		
	541E	Caviness, John M Caviness, Diane H	1.81	Escondido Farm Rd.	Yes			
	541F	Musulin, Samuel Michael Musulin, Annette D	4.28	Escondido Farm Rd.	Yes	Access could be provided with service road from White Oak Rd., but		
	542	Hocutt, Victor A Hocutt, Rose H	2.35	Escondido Farm Rd.	Yes	would require additional stream and wetland impacts		
	543	Dufner, Patrick J Dufner, Lana R G	28.07	Escondido Farm Rd.	Yes	would require additional stream and wetland impacts		
	544	Truelove, Steven Brett Truelove, Anne S	4.98	Escondido Farm Rd.	Yes			
	545	Burnette, R G Jr	44.78	Escondido Farm Rd.	No			
	545A	Burnette, R G Jr		Escondido Farm Rd.	No	Access could be provided by realigning Hidden Acres Trail to Raynor Rd.		
	546	2701 Hidden Acre Land Trust	10.68	Hidden Acres Trail	Yes	Access could be provided with service road from White Oak Rd., but would require additional stream and wetland impacts		
R	546A	2702 Hidden Acre Land Trust	0.22	Hidden Acres Trail	No	Access could be provided by realigning Hidden Acres Trail to Raynor Rd		
	547	Early, Sara Ray	3.81	Hidden Acres Trail	No	Access could be provided with service road from White Oak Rd., but would require additional stream and wetland impacts		
	547A	Early, Sara Ray	2.39	Hidden Acres Trail	Yes	Access could be provided by realigning Hidden Acres Trail to Raynor Rd.		
	548	Bailey, Joseph R Bailey, Velancia P	9.11	Cabin View Ln.	Yes	Access could be provided with service road from White Oak Rd., but would require additional stream and wetland impacts		
	548A	Bailey, Joseph R Bailey, Velancia P	1.91	Cabin View Ln.	No	Access could be provided by realigning Hidden Acres Trail to Raynor Rd.		
	549	Elmo T Williams Trust Williams, Alice H	5.54	Raynor Rd.	No	Access could be provided with service road from White Oak Rd., but would require additional stream and wetland impacts		
	550	Capital Cities Communications Inc	1.73	Transmitter Rd.	No	Access would require additional stream and wetland impacts		
	551	NC Department of Transportation	31.8	TV Tower rd.	No	Advanced acquisition property		
	552	Rogers, Richard Trustee Rogers, Ann R Trustee	3.88	US 70	No	Access would require extending TV Tower Rd to parcel. Doing so would allow Store Master Funding to have a 2nd access point		
S	553	Rogers, Richard Trustee Rogers, Ann R Trustee	6.56	US 70	No	Access would require additional wetland impacts or buying property from non-affected parcels		
3	554	Johnson, Betty H	5.6	US 70	Yes	Access would require additional wetland impacts or buying property from non-affected parcels		
	555	Partlo Garner LLC	1.24	US 70	No	Access would require additional wetland impacts or buying property from non-affected parcels		

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks	
			Kemaning		Remaining	Further Analysis No Further Analysis	
	556	Bufffaloe Mini Storage LLC	5.83	Walnut Dr	Yes	Access could be presided with a consist read from LIC 70 to Welsut Dr	
	557	Bufffaloe Mini Storage LLC	4.67	Walnut Dr	Yes	Access could be provided with a service road from US 70 to Walnut Dr.	
	558	Buffaloe Enterprises LLC	28.27	Walnut Dr	Yes		
	559	Buffaloe Enterprises LLC	3.57	Walnut Dr	Yes	Access could be provided with a service road from US 70 to Walnut Dr. (Access through adjoining parcel)	
S	560	L & L Company LLC	22.37	US 70	No	Access could be provided with service road from US 70 to parcel	
	560A	L & L Company LLC	7.41	US 71	No	Access would require additional stream and wetland impacts	
	560B	Alexander, Randy	4.71	US 70	Yes	Access could be provided with service road that would run parallel to US 70 to parcel	
	561	Edge Of Auburn LLC	19.63	Rock Quarry Rd	No	Access could be provided with service road to Holly Brook Farm Rd.	
	561A	Union B&T Co	0.11	Branch Rd.	No	Small undeveloped remnant remainder of the large tract.	
	562	Francis, Laura S	0.83	Branch Rd.	No	Small undeveloped remnant remainder of the large tract.	
	563	Union B&T Co	2.44	Battle Bridge Rd.	No	Small undeveloped remnant remainder of the large tract.	
	564	City of Raleigh	90.43	Auburn Knightdale Rd.	No	Access could be provided with service road from Battle Bridge Rd to parcel	
	565	Billy Adams Farms Inc	29.58	Auburn Knightdale Rd.	Yes	Access could be provided with service road running parallel to Auburi Knightdale to parcel	
	566	Davis, James Ray	2.52	Auburn Knightdale Rd.	Yes	Access could be provided with service road running parallel to Auburn Knightdale to parcel	
T	567	Everhart, Rex M Everhart, Carol S	0.39	Auburn Knightdale Rd.	No	Small undeveloped remnant remainder of the large tract.	
'	568	Burchette, Barbara Ann Glover	0.81	Auburn Knightdale Rd.	No	Small undeveloped remnant remainder of the large tract.	
	569	Jefferys, Grady B Jefferys, Thelma M	0.24	Auburn Knightdale Rd.	No	Small undeveloped remnant remainder of the large tract.	
	570	Sanok, Jacob J Sanok, Marylu	1.12	Auburn Knightdale Rd.	No	Access could be provided with service road running parallel to Auburn Knightdale	
	571	West, Nancy C	3.23	Auburn Knightdale Rd.	Yes	Kiligittudie	
	572	Glover, Wallace Edward Jr	1.53	Auburn Knightdale Rd.	No	Access would require large impacts to wetlands	
	573	Baker, Ted Preston Baker, Geraldine G	1.05	Auburn Knightdale Rd.	No	Access would require large impacts to wetlands	
	574	Bailey, Barry Bailey, Sue G	0.32	Auburn Knightdale Rd.	No	Small undeveloped remnant remainder of the large tract.	
U	575	Raynor, Bobby C Raynor, Margaret F	37.97	Leonard Rd.	No	Access could be provided with one service road running perpendicular from Leonard dr and another one running parellel to the C/A (access through adjoining parcel)	

IABLE	ABLE 2-1. PARCEL EVALUATION		ı		T		
Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Ren	narks
						Further Analysis	No Further Analysis
	575A	Raynor, Bobby C Raynor, Margaret F	10.06	Auburn Knightdale Rd.	No	Access across	adjoining parcel
	576	Raynor, Bobby C Raynor, Margaret F	12.6	Leonard Rd.	No	Access could be provided with one service road running perpendicular from Leonard dr and another one running parellel to the C/A	
	576A	Raynor, Bobby C Raynor, Margaret F	8.35	Auburn Knightdale Rd.	No	Access across adjoining parcel	
	577	Myrick, Billy S	12.27	Sidecreek Dr.	No		
U	578	Powell, Jacob L Powell, Anthony J	2.72	No Access	No	Access could be provided by exten	ding Flower Blossom Cir to a service
	579	Crenshaw, John C III Crenshaw, Laurie L	12.02	No Access	No	road that runs along t	he edge of large parcel
	579A	Crenshaw, John C III Crenshaw, Laurie L	6.83	No Access	No	Access could be provided with one service road running perpendicular from Leonard dr and another one running parellel to the C/A	
	580	Hodge Road LLC	64.14	Scenic Woods Rd.	No	Access could be provided with se	guice road rupping parallel to Doole
	581	Paul, Linda Turner Mcdonald, Mary Dwight T Heirs	5.56	Poole Rd.	No	Access could be provided with service road running parallel to Poo Rd, but would require additional stream and wetland impacts	
	582	Broadie, Andrew P Heirs	1.7	Poole Rd.	Yes	Access could be provided by extending Old Stone Mills St., but wo require upgrading streets leading up to it	
	583	Stanford, Larry Stanford, Vickie T	0.83	Poole Rd.	Yes		
	584	Banks, Eugene Banks, Janet P	0.78	Poole Rd.	No	Access not allowed along F	Poole Rd due to interchange
	585	Broadie, Andrew P Heirs	8.47	Poole Rd.	No	Access could be provided with se	ervice road off of Stoney Falls Way
	586	Raleigh Rugby Football Club Inc	5.67	Poole Rd.	No		nding Old Stone Mills St., but would treets leading up to it
V	586A	Raleigh Rugby Football Club Inc	3.65	Poole Rd.	No	Access could be provided with se	ervice road off of Stoney Falls Way
	587	Knightdale Estates Mhp Ltd Prtnrp	9.27	Lodge Rd.	No	'	rvice roads off of Stoney Falls Way
	588	Vater, Monica Wynn	0.7	Kemp Rd.	Yes		ning Kemp Rd. and running it parallel ne C/A
	589	Gonzales, Ignacio Alcaraz, Alejandra	1.09	Kemp Rd.	Yes	Access could be provided by realigning Kemp Rd. and running it par to the C/A	
	590	Tripp, Misty Michelle	0.82	Kemp Rd.	Yes		
	591	Rosales, Salvador Peru	0.92	Kemp Rd.	Yes		
	592	Ennis, Mickey R Ennis, Rhonda M	0.89	Kemp Rd.	Yes		

Area	Parcel ID.	Parcel Owner Name	Aprox. Acreage Remaining	Existing Access	Structure Remaining	Remarks		
						Further Analysis	No Further Analysis	
	593	Hernandez, Ernesto Hernandez, Silvia	0.87	Kemp Rd.	Yes	Access could be provided by realign	ning Kemp Rd. and running it parallel	
	594	Tart, Harold Thurmond	0.84	Kemp Rd.	Yes	to the C/A		
V	595	Miranda, German Beneraldo	0.75	Kemp Rd.	Yes			
V	596	NC Department of Transportation	0.65	Kemp Rd.	No	Advanced acquisition property		
	597	NC Department of Transportation	0.29	Kemp Rd.	No	Advanced acqu	uisition property	

3. DESIGN OPTIONS

3.1 SERVICE ROAD DESIGN

Those parcels with feasible options to provide new access (identified in green in Table 2-1) were carried forward in the study process. This step in the study process included the planning and the development of preliminary design alternatives for feasible service roads to land-locked parcels. Several factors were used in determining the location of each new service road including the location of the parcel, where the existing access is, and location of streams and wetlands. If possible, the new service road was developed to connect to the existing access road for the land-locked parcel. In these cases, the new service road would parallel the new controlled access limits and reconnect to the existing road. If there were two viable service road solutions that would serve the same set of parcels, both were brought forward in the design process and analyzed separately.

In addition to the factors utilized to determine the location of the new service road, certain design criteria were developed to guide the design of each service road. These criteria were developed to serve the land-locked parcel with safe and cost-effective access. The intended use and expected traffic volumes including vehicle mix were major considerations in developing the following design criteria:

- 1. Design Speed: The design speed varies per service road. For service roads leading to a subdivision, a design speed of 25 mph was used in order to mimic the subdivision roads. Service roads leading to just a few parcels were designed at 30 mph with an anticipated posted speed of 25mph per the NCDOT Roadway Design Manual. These facilities are intended to be low volume (less than 400 ADT) roadways providing access only to local, mainly residential, properties. Design speed adjustments were made for unusual circumstances and unique property use situations, as necessary.
- 2. Typical Section: Exhibits 3-1 and 3-2 show the two typical sections that were utilized in the design of service roads. For service roads leading to subdivisions, as shown in Exhibit 3-1, the Average Daily Traffic (ADT) is likely higher than 400 vehicle, and therefore required wider lanes and shoulders. Based on the NCDOT Roadway Design manual these roads were designed with two 11-foot lanes and 6-foot unpaved shoulders on each side. Service roads leading to just a few parcels utilized the typical section shown in Exhibit 3-2. These facilities were anticipated to have an ADT of less than 400 vehicles and therefore only require 9-foot lanes with 2-foot shoulders. Depending on the profile, roadside ditches would be provided to convey drainage away from the roadway facility and reduce future maintenance costs. Only major drainage conveyances would be included, as necessary.

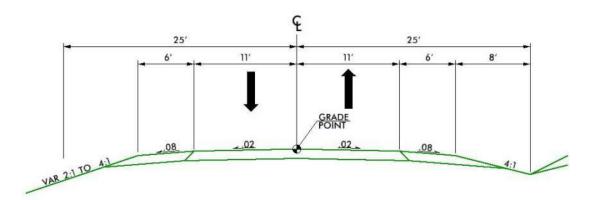
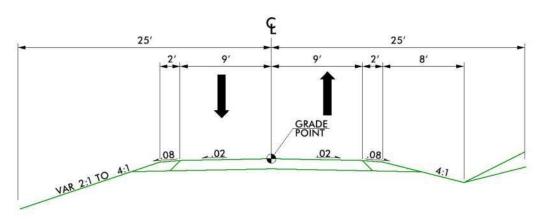


EXHIBIT 3-1: SUBDIVISION ROAD TYPICAL SECTION



EXIBIT 3-2: LOCAL ROAD TYPICAL SECTION

3. Alignment: The alignments of the individual service roads varies based on property configurations. Each situation is unique and were treated as such to develop the best design solution. The goal was to minimize the loss of adjacent properties by paralleling the control of access portion of the facility as closely as possible. Where following the control of access is not an option or would result in an unusually long service road, the alignment would typically parallel or straddle the property line to balance the loss of property between the two adjacent parcels.

The alignments follow the design speed considerations as to minimum radii and T-type intersections were considered where appropriate. Super-elevation would not be proposed due to the low design speed of these facilities.

4. Grade: The profile grade of the proposed service roads are in part dictated by the existing topography. To cost-effectively design these facilities, the service roads would need to follow the existing contour of the land closely to reduce cut and fill associated with significant departures from existing grades. Vertical grades were set such that adequate sight distances

are provided meeting the intended design speed of the facility. Unusually steep grades necessitating high cuts and fills were only considered if necessary.

5. Hydraulic/Environmental Feature Crossings: A few of the service roads crossed drainage features and possibly some stream and wetland areas. In these cases, efforts to avoid impacting these resources were made by adjusting the horizontal alignments as necessary. However, if unavoidable, effort was made to minimize the design "footprint" impacts to these environmental features to the extent possible by tightly controlling the profile and steepening side slopes as necessary through these areas. In the case of stream crossings, the nearest hydraulic crossing structure, upstream or downstream, would be used to evaluate and assist in the selection of the appropriate type and size of crossing conveyance to be considered in the design study.

3.2 COST QUANTIFICATION

With the facilities designed, the approximate construction cost of each service road was quantified using values provided from NCDOT. These quantities are typical of the type NCDOT estimates for functional designs. These quantities and costs include:

- **Pavement Items.** Includes new pavement, pavement widening, and pavement resurfacing in square yards.
- **Earthwork/Grading.** Typically include cut/fill, borrow earthwork as necessary.
- **Clearing.** Includes any necessary clearing for the service road.
- **Drainage.** Includes any box culverts necessary to construct the road.
- ROW Cost. Includes the necessary additional ROW outside of the control of access limits to
 contain the facility. Costs for this additional ROW were based on a prorated value for each
 parcel obtained through the Wake and Johnston County GIS/Mapping systems based on a peracre or per-square foot cost plus the value of structures impacted.
- **Miscellaneous.** Includes a 15 percent contingency for structure items (e.g., culverts and bridges) and utility items (e.g., water lines, sewer, etc.) that may be necessary to construct the roadway or tie to the existing roadway.
- **Contingency.** Utilizes a 45 percent contingency to cover unforeseen elements that may need to be constructed with each facility.
- **Engineering.** Includes 15 percent to cover the development of the final designs and construction management of each service road.
- Environmental Impacts. Includes a value of \$80,594 per acre of wetlands impacted and \$594 per linear foot of stream impacts. These costs account for a 2:1 ratio of mitigation, so for every linear foot or acre of environmental impact, two linear feet or acres are mitigated. Wetland areas were rounded up to the nearest quarter acre. For the majority of the service roads, wetland and stream impacts were calculated using environmental surveys dated in 2017. If the service road went outside the survey boundary, GIS information was used to calculate impacts.

Comparative land and structure values were used to evaluate if construction costs were outweighed by associated costs of completely acquiring the remnant parcels. These costs did not take into account any loss of use, relocation cost differentials, or other impacts associated with losing all rights to the property by the owner. These costs included the straight forward land value costs based on current parcel tax values and approximate appraised values from the Wake and Johnston County GIS/Mapping systems and a prorated land value would be calculated for the remaining acreage. Structure and dwelling values would also be obtained from these resources. All estimates of property value and acquisition costs are approximate in nature and should not be used to determine actual appraised value or as the basis for any acquisition negotiations. These estimates are being used to reasonably evaluate the feasibility of providing access to impacted parcels along the project.

The designs for roads serving the impacted parcels are included in Appendix B. The supporting quantities and cost estimate data used to derive the construction cost for each land-locked parcel are included in Appendix C.

4. COST/BENEFIT ANALYSIS

With all the designs for the service roads developed and estimated costs compiled for each facility, the total acquisition cost versus the overall construction cost associated with providing permanent access to the land-locked parcels were calculated and are provided in Table 4-1. In some cases, construction of one service road would be required in order to provide access to another service road. In those scenarios, both service roads were analyzed separately to prove the worth of each road, but it is noted that one could not be built without the other. In areas with T-Type intersections, there are two alignments and therefore two roads. The name of each alignment is listed in Table 4-1, but they are quantified as a set.

TABLE 4-1: COST COMPARISON

IABLE 4	4-1. CC	Aprox.	ARISON		1	Road			
Service	Parcel	Acreage	Remnant	Structure Cost		Construction Cost	ROW & En	vironmental	Total Cost (\$)
Road ID	ID.	Remaining	Value (\$)	(\$)	(\$)	(\$)	Impact	Cost (\$)	. στα. σσστ (φ)
			I.	•	R-27		•	3.7	
D1	6	5.31	\$242,789	\$0	\$242,789	\$270,792	ROW: 1.56 Ac.	ROW: \$103,973	\$374,765
	14	1.1	\$144,994	\$0	\$144,994	\$270,732		ποτιτ φ100/370	ψον 1,7 σο
	16	0.45	\$25,000	\$0	\$25,000				
	17	0.4	\$25,000	\$400	\$25,400				
	18	0.34	\$14,655	\$0	\$14,655				
	19	0.48	\$25,000	\$0	\$25,000		İ		
	20	0.46	\$25,000	\$0	\$25,000				
	21	0.23	\$13,068	\$0	\$13,068				
	23	0.3 0.42	\$25,000	\$0 \$3,050	\$25,000 \$28,050				
	25	0.42	\$25,000 \$25,000	\$3,030	\$25,000				
	26	0.82	\$27,500	\$0	\$27,500				
	27	0.44	\$5,000	\$0	\$5,000				
	28	0.44	\$25,000	\$32,981	\$57,981				
	29	0.45	\$25,000	\$17,788	\$42,788				
	30	0.45	\$25,000	\$18,338	\$43,338				
	31	0.45	\$25,000	\$500	\$25,500				\$1,651,903 (E1 & E2) or
	32	0.46	\$25,000	\$21,979	\$46,979				
	33	0.57	\$25,000	\$47,482	\$72,482			E1 & E2: \$399,455	
	34	0.5	\$25,000	\$0	\$25,000				
	35	0.6	\$25,000	\$0	\$25,000				
	36	0.57	\$25,000	\$24,571	\$49,571				
	37	0.69	\$25,000	\$0 \$0	\$25,000				
	38 39	0.69 0.73	\$25,000 \$27,500	\$0 \$0	\$25,000 \$27,500				
	40	0.73	\$27,300	\$29,365	\$54,365		E1 & E2: ROW: 2.73 Ac.		
	41	0.69	\$25,000	\$50,947	\$75,947				
	42	0.69	\$25,000	\$87,320	\$112,320				
	43	0.71	\$27,500	\$57,931	\$85,431				
E1 & E2 or	44	0.76	\$27,500	\$0	\$27,500	\$1,252,448 (E1			
E3 & E4	46	0.7	\$27,500	\$0	\$93,260	&E2) or	E3 & E4:	E3 &E4: \$208,198	\$664,155 (E3 &
	47	0.55	\$25,000	\$65,760	\$73,513	\$455,956 (E3 &E4)	ROW: 1.85 Ac.		E4)
	48	0.93	\$31,250	\$48,513	\$31,250				
	49	0.48	\$25,000	\$0	\$51,254				
	50	0.48	\$25,000	\$26,254	\$25,000				
	51	0.96	\$31,250	\$0	\$31,250				
	52	0.96	\$31,250	\$0	\$53,859				
	53	0.95	\$31,250	\$22,609	\$194,168				
	54	0.55	\$25,000	\$162,918	\$72,370				
	55	0.48	\$25,000	\$47,370	\$25,200				
	56 57	0.44 0.45	\$25,000 \$25,000	\$200 \$0	\$25,000 \$25,000				
	58	0.43	\$25,000	\$0	\$25,000				
	59	0.52	\$25,000	\$0	\$81,811				
	60	0.89	\$31,250	\$56,811	\$129,559				
	61	0.76	\$27,500	\$98,309	\$103,655				
	62	0.75	\$24,750	\$76,155	\$24,750				
	63	0.5	\$25,000	\$0	\$92,573				
	64	0.49	\$25,000	\$67,573	\$47,045				
	65	0.49	\$25,000	\$22,045	\$96,668				
	66	0.71	\$27,500	\$71,668	\$98,623				
	67	0.71	\$27,500	\$71,123	\$45,403				
	68	0.85	\$31,250	\$17,903	\$57,463				
	69	0.65	\$25,000	\$26,213	\$41,644				
	70	0.63	\$25,000	\$16,644	\$25,000				
	71	1.08	\$37,500	\$0	\$140,390	-			
	72 73	0.51 0.58	\$25,000 \$25,000	\$102,890 \$95,334	\$120,334 \$25,000	1			
	74	0.58	\$25,000	\$95,334	\$25,000	1			
	/4	0.45	\$25,000	ŞU	\$25,UUU			j	l

TABLE 4-1: COST COMPARISON

		Aprox.				Road	50,40.5		
Service Road ID	Parcel ID.	Acreage	Remnant	Structure Cost	Parcel Buyout	Construction Cost	ROW & Env	vironmental	Total Cost (\$)
KOAU ID	ID.	Remaining	Value (\$)	(\$)	(\$)	(\$)	Impact	Cost (\$)	
	75	0.46	\$25,000	\$0	\$47,942				
	76	0.48	\$25,000	\$22,942	\$71,333				
	77	0.47	\$25,000	\$46,333	\$25,000				
	78	0.51	\$25,000	\$0	\$55,110				
	79 80	0.47 0.57	\$25,000	\$30,110	\$30,570				
	81	0.37	\$25,000 \$25,000	\$5,570 \$45,191	\$70,191 \$25,000	-			
	82	0.43	\$25,000	\$0	\$48,180				
	83	0.43	\$25,000	\$23,180	\$25,000	1			
	84	1.01	\$30,000	\$0	\$30,000				
	85	0.69	\$25,000	\$0	\$25,000				
	86	0.82	\$31,250	\$0	\$33,440				
	87	0.52	\$25,000	\$2,190	\$25,000				
	88	0.61	\$25,000	\$0	\$25,000				
	89	0.82	\$31,250	\$0	\$66,587				
	90	1.78	\$30,000	\$35,337	\$30,000				
	91	3.11	\$50,000	\$0	\$131,409				
	92	0.6	\$25,000	\$81,409	\$79,023				
	93	0.83	\$31,250	\$54,023	\$31,250				
	94	0.86	\$31,250	\$0	\$52,025	-			
	95 96	0.54 0.53	\$25,000 \$25,000	\$20,775 \$0	\$25,000 \$48,043				
	97	0.74	\$27,500	\$23,043	\$85,524				
	98	6.37	\$186,323	\$58,024	\$188,213	\$1,252,448 (E1	E1 & E2: ROW: 2.73 Ac. E3 & E4: ROW: 1.85 Ac.	E1 & E2: \$399,455 E3 &E4: \$208,198	\$1,651,903 (E1 & E2) or \$664,155 (E3 & E4)
	99	0.52	\$25,000	\$1,890	\$25,000				
	100	1.93	\$37,500	\$0	\$37,500				
	101	1.59	\$37,500	\$0	\$39,500				
	102	1.16	\$30,000	\$2,000	\$59,116				
	103	1.77	\$28,125	\$29,116	\$31,125				
E1 & E2 or	104	0.69	\$25,000	\$3,000	\$25,000				
E3 & E4	105	0.86	\$27,500	\$0	\$27,500	&E2) or			
	106	0.49	\$25,000	\$0	\$25,000	\$455,956 (E3 &E4)			
	107	0.48	\$25,000	\$0	\$52,620				
	108	0.49	\$25,000	\$27,620	\$54,820				
	109	0.73	\$27,500	\$29,820	\$27,500				
	110	1.09	\$37,500	\$0	\$79,224				
	111	0.98	\$31,250	\$41,724	\$35,220	.			
	112 113	0.47	\$25,000	\$3,970	\$44,734	-			
	114	0.48 0.54	\$25,000 \$25,000	\$19,734 \$0	\$25,000 \$77,552				
	115	0.46	\$25,000	\$52,552					
	116	0.46	\$25,000	\$67,420	\$92,420 \$56,353				
	117	0.41	\$25,000	\$31,353	\$35,270				
	118	0.5	\$25,000	\$10,270	\$25,100				
	119	0.48	\$25,000	\$100	\$72,913				
	120	0.48	\$25,000	\$47,913	\$25,000				
	121	0.45	\$25,000	\$0	\$25,000				
	122	0.48	\$25,000	\$0	\$50,201	1			
	123	0.45	\$25,000	\$25,201	\$25,000	1			
	124	0.46	\$25,000	\$0	\$99,952]			
	125	0.44	\$25,000	\$74,952	\$25,000]			
	126	0.43	\$25,000	\$0	\$25,650	<u> </u>			
	127	0.47	\$2,000	\$650	\$2,000	<u> </u>			
	128	0.52	\$25,000	\$0	\$47,948	<u> </u>			
	129	0.49	\$2,000	\$22,948	\$25,520	<u> </u>			
	130	0.5	\$25,000	\$23,520	\$99,029	<u> </u>			
	131	0.51	\$25,000	\$74,029	\$37,290	<u> </u>			
	132	0.51	\$25,000	\$12,290	\$25,000	<u> </u>			
	133	0.51	\$25,000	\$0 \$0	\$25,000	 			
	134	0.53	\$25,000	\$0	\$91,051			<u> </u>	ļ

TABLE 4-1: COST COMPARISON

I ADLE 4	1-1: CC	DST COMP	AKISON		1				ı
Service	Parcel	Aprox.	Remnant	Structure Cost	Parcel Buyout	Road	ROW & Env	vironmental	a
Road ID	ID.	Acreage	Value (\$)	(\$)	(\$)	Construction Cost		0 . (4)	Total Cost (\$)
		Remaining				(\$)	Impact	Cost (\$)	
	135	0.3	\$6,250	\$66,051	\$6,250				
	136	0.28	\$6,250	\$0	\$6,250				
	137	0.54	\$25,000	\$0	\$25,000				
	138	0.49	\$25,000	\$0	\$25,000				
	139	0.55	\$25,000	\$0	\$49,904				
	140	0.52	\$25,000	\$24,904	\$56,830				
	141	0.52	\$25,000	\$31,830	\$25,000				
	142	0.56	\$12,500	\$0	\$12,500				
	143	0.52	\$25,000	\$0	\$41,570				
	144	0.53	\$25,000	\$16,570	\$25,000				
	145	0.49	\$25,000	\$0	\$25,000				
	146	0.54	\$25,000	\$0	\$25,000				
	147	0.57	\$25,000	\$0	\$25,000				
	148	0.47	\$25,000	\$0	\$25,000				
	149	0.49	\$25,000	\$0	\$25,000				
	150	0.47	\$25,000	\$0	\$25,000		ļ		
	151	0.47	\$25,000	\$0	\$25,000				
				\$0		-			
	152	0.43	\$25,000		\$26,830	\$1,252,448 (E1	E1 & E2:		\$1,651,903 (E1 &
E1 & E2 or	153	0.43	\$25,000	\$1,830	\$34,480	&E2) or	ROW: 2.73 Ac.		E2) or
E3 & E4	154	0.57	\$25,000	\$9,480	\$25,460	\$455,956 (E3 &E4)	E3 & E4:	E3 &E4: \$208,198	\$664,155 (E3 &
	155	0.85	\$31,250	\$460	\$31,250	ψ 100,000 (20 G2 1)	ROW: 1.85 Ac.		E4)
	156	0.4	\$25,000	\$0	\$25,000				
	157	0.39	\$25,000	\$0	\$25,000				
	158	0.53	\$25,000	\$0	\$25,000				
	159	2.15	\$52,500	\$0	\$68,651				
	160	2.35	\$50,000	\$16,151	\$106,227				
	161	0.42	\$25,000	\$56,227	\$84,839				
	162	0.4	\$25,000	\$59,839	\$25,000				
	163	0.41	\$25,000	\$0	\$25,300				
	164	0.45	\$25,000	\$300	\$26,090				
	165	0.24	\$20,000	\$1,090	\$28,706				
	166	3.83	\$18,637	\$8,706	\$18,637				
	168	0.61	\$25,000	\$33,636	\$58,636				
	169	0.48	\$12,500	\$0	\$12,500				
	170	0.47	\$25,000	\$0	\$25,000				
	171	0.47	\$25,000	\$12,705	\$37,705				
	172	0.5	\$25,000	\$0	\$25,000				
	173	0.49	\$25,000	\$870	\$25,870				
G1	177	8.49	\$429,433	\$0	\$429,433	\$111,969	ROW: 0.23 Ac. Stream: 171 LF Wetland: 0.14 Ac.	Stream: \$101,574	\$243,913
	170	1 22	¢7F 000	¢120 725	¢205 725	 	vvetialiu. U.14 AC.		
	178	1.33	\$75,000	\$130,735	\$205,735	-			
	179	1.78	\$75,000	\$153,856	\$228,856	4			1
	180	2.03	\$90,000	\$188,902	\$278,902	-			
	181	1.68	\$75,000	\$111,173	\$186,173	4			
	182	0.8	\$75,000	\$150,709	\$225,709	4			
	183	0.8	\$74,074	\$127,639	\$201,713	1	G2:	G2:	
	184	0.75	\$38,265	\$132,506	\$170,771	\$113,955 (G2) or	ROW: 0.11 Ac.	ROW: \$11,577	\$125,532 (G2) o
G2 or G5	185	0.69	\$75,000	\$125,387	\$200,387	\$140,622 (G5)	G5:	G5:	\$172,642 (G5)
	186	0.69	\$75,000	\$124,348	\$199,348	7170,022 (03)	ROW: 0.28 Ac.	ROW: \$32,020	71,2,042 (03)
	187	0.69	\$75,000	\$123,672	\$198,672]	NO VV. U.ZO AL.	10 vv. 332,020	
	188	0.7	\$75,000	\$134,324	\$209,324]			
	189	0.94	\$75,000	\$128,521	\$203,521	1			
	190	1.59	\$75,000	\$100,649	\$175,649	1			
	191	1.61	\$75,000	\$108,944	\$183,944	1			
	192	1.07	\$75,000	\$114,651	\$189,651	1			
	193	1.65	\$75,000	\$114,651	\$189,651	A440 0== (==)	G2:	G2:	4405 500 / 5-1
G2 or G5	193A	2.56	\$86,617	\$168,222	\$254,839	\$113,955 (G2) or \$140,622 (G5)	ROW: 0.11 Ac. G5: ROW: 0.28 Ac.	ROW: \$11,577 G5: ROW: \$32,020	\$125,532 (G2) o \$172,642 (G5)
	l	<u> </u>		1]	1	110 17. 0.20 AC.		

TABLE 4-1: COST COMPARISON

Service	Parcel	Aprox. Acreage	Remnant	Structure Cost	Parcel Buyout	Road Construction Cost	ROW & Env	rironmental	Total Cost (\$)	
Road ID	ID.	Remaining	Value (\$)	(\$)	(\$)	(\$)	Impact	Cost (\$)		
	178	1.33	\$75,000	\$130,735	\$205,735					
	179	1.78	\$75,000	\$153,856	\$228,856					
	180	2.03	\$90,000	\$188,902	\$278,902					
	181	1.68	\$75,000	\$111,173	\$186,173					
	182	0.8	\$75,000	\$150,709	\$225,709					
	183	0.8	\$74,074	\$127,639	\$201,713					
	184	0.75	\$38,265	\$132,506	\$170,771					
	185	0.69	\$75,000	\$125,387	\$200,387					
	186	0.69	\$75,000	\$124,348	\$199,348					
	187	0.69	\$75,000	\$123,672	\$198,672					
G3	188	0.7	\$75,000	\$134,324	\$209,324	\$684,787	ROW: 2.43 Ac.	ROW: \$596,960	\$1,315,605	
03	189	0.94	\$75,000	\$128,521	\$203,521	Ç004,707	Stream: 57 LF	Stream: \$33,858	ψ1,515,005	
	190	1.59	\$75,000	\$100,649	\$175,649					
	191	1.61	\$75,000	\$108,944	\$183,944					
	192	1.07	\$75,000	\$114,651	\$189,651					
	193	1.65	\$75,000	\$154,016	\$229,016					
	193A	2.56	\$86,617	\$168,222	\$254,839					
	194	0.75	\$57,990	\$231,371	\$289,361					
	196	0.94	\$75,000	\$0	\$180,142					
	197	0.67	\$76,571	\$105,142	\$125,407					
	198	0.71	\$77,808	\$48,836	\$77,808					
	199	1.87	\$131,478	\$0	\$278,348					
	200	0.87	\$69,600	\$146,870	\$162,500					
	201	1.79	\$125,300	\$92,900	\$252,096					
G4	202	0.89	\$70,851	\$126,796	\$127,594	\$499,088	ROW: 2.62 Ac.	ROW: \$370,512	\$869,600	
	203	5.54	\$137,129	\$56,743	\$137,129					
	204	5.96	\$172,406	\$0	\$172,406					
	217	0.61	\$51,275	\$184,753	\$236,028					
	218	0.69	\$58,000	\$206,076	\$264,076					
	219	0.7	\$58,000	\$140,646	\$198,646					
	220	0.7	\$58,000	\$125,770	\$183,770					
	222	0.71	\$58,000	\$117,757	\$175,757					
	223	0.72	\$58,000	\$100,817	\$158,817					
H1	224	0.6	\$46,400	\$33,669	\$80,069	\$266,219	ROW: 1.38 Ac.	ROW: \$91,757	\$357,976	
	225	0.76	\$58,000	\$122,709	\$180,709					
	226	0.84	\$58,000	\$126,348	\$184,348					
	227	0.86	\$58,000	\$143,501	\$201,501					
	228	1.56	\$64,246	\$177,163	\$241,409					
	230	0.97	\$58,000	\$122,798	\$180,798					
	231	0.73	\$58,000	\$162,032	\$220,032					
	211	0.7	\$11,765	\$0	\$11,765					
H2	212	1.46	\$66,853	\$0	\$66,853	¢421 10E	ROW: 2 Ac.	POW: \$210 720	¢621 014	
112	213	0.82	\$55,953	\$0	\$55,953	\$421,185	NOW. 2 Ac.	ROW: \$210,729	\$631,914	
	214	0.62	\$52,116	\$114,587	\$166,703					
Н3	237	4.01	\$155,664	\$0	\$155,664	\$233,859	ROW: 1.48 Ac.	ROW: \$83,780	\$317,638	
14	243	8.8	\$325,840	\$0	\$325,840	6474 425	ROW: 3.24 Ac.	ROW: \$129,993	6624.254	
l1	244	9.71	\$299,991	\$0	\$299,991	\$471,135	Wetland: 0.36 Ac.	Wetland: \$30,223	\$631,351	
	244A	2.29	\$70,750	\$0	\$70,750					
	245	0.34	\$19,440	\$0	\$19,440					
	246	2.69	\$56,490	\$0	\$56,490					
	247	22.36	\$975,527	\$0	\$975,527	\$242,368	DOW 4 ***	DOW 4=0 =05	4201 0==	
12	248	6.2	\$168,600	\$0	\$168,600		ROW: 1.44 Ac.	ROW: \$78,705	\$321,073	
	249	1.1	\$52,200	\$44,071	\$96,271					
	250	1.9	\$56,200	\$56,067	\$112,267					
	251	1.14	\$53,880	\$163,166	\$217,046					
							ROW: 0.13 Ac.	ROW: \$4,766		
J1	260	14.93	\$440,061	\$0	\$440,061	\$56,412	Stream: 115 LF	Stream: \$68,310	\$129,488	

TABLE 4-1: COST COMPARISON

Service	Parcel	Aprox. Acreage	Remnant	Structure Cost	Parcel Buyout	Road Construction Cost	ROW & Env	rironmental	Total Cost (\$
Road ID	ID.	Remaining	Value (\$)	(\$)	(\$)	(\$)	Impact	Cost (\$)	
					R-28		·	, ,	
	261	0.88	\$72,449	\$0	\$72,449		ROW: 4.01 Ac.	ROW: \$32,849	
K1	262	1.91	\$32,207	\$0	\$32,207	\$708,012	Wetland: 0.05 Ac.	Wetland: \$10,074	\$750,936
	263	11.09	\$241,258	\$0	\$241,258		Wetland. 0.05 Ac.	Wetland. \$10,074	
L1	266	20.14	\$481,034	\$0	\$481,034	\$67,832	ROW: 0.14 Ac.	ROW: \$6,136	\$73,969
	308	5.91	\$153,660	\$0	\$153,660				
.2 & L2A	309	12.51	\$331,569	\$24,359	\$355,928	\$139,153	ROW: 0.8 Ac.	ROW: \$17,069	\$156,222
	310	0.92	\$33,740	\$107,276	\$141,016				
	267	18.07	\$384,286	\$106,539	\$490,825	1			
	268	1.32	\$50,712	\$151,859	\$202,571	-			
	269		\$177,630	\$323,199	-				
	270	3.91	\$67,500	\$276,081	\$343,581	-			
	271 272	1.09 1.23	\$45,000 \$45,000	\$246,319 \$295,470	\$291,319 \$340,470	-			
	273	2	\$58,500	\$328,159	\$340,470				
	274	0.6	\$45,000	\$306,762	\$351,762	-			
	275	0.99	\$45,000	\$230,235	\$275,235				
	276	0.49	\$45,000	\$277,702	\$322,702				\$452,860
	277	0.49	\$45,000	\$250,269	\$295,269				
	278	0.46	\$45,000	\$229,912	\$274,912				
	279	0.59	\$45,000	\$226,453	\$271,453				
	280	1.07	\$45,000	\$244,011	\$289,011				
<u> </u>	281	2.48	\$63,000	\$359,460	\$422,460				
	282	3.71	\$0	\$0	\$0				
	283	2.43	\$58,500	\$271,550	\$330,050				
L3 285 286	284	0.84	\$45,000	\$351,643	\$396,643				
	285	0.72	\$45,000	\$213,568	\$258,568	\$336,483	ROW: 2.51 Ac.	ROW: \$116,376	
	286	0.71	\$45,000	\$232,380	\$277,380				
	287	0.64	\$45,000	\$255,809	\$300,809				
	288	0.59	\$45,000	\$281,683	\$326,683				
	290	0.55	\$45,000	\$260,938	\$305,938	-			
	291	1.05	\$45,000	\$265,939	\$310,939				
	293 294	0.53	\$45,000 \$45,000	\$280,461	\$325,461				
	294	0.48 0.48	\$45,000	\$280,461 \$334,881	\$379,881 \$282,353	-			
	296	0.48	\$45,000	\$237,353	\$282,333				
	298	0.17	\$0	\$0	\$0	-			
	299	1.31	\$45,000	\$284,742	\$329,742	1			
	300	0.49	\$45,000	\$222,956	\$267,956				
	301	0.76	\$45,000	\$233,149	\$278,149				
	302	0.8	\$45,000	\$261,726	\$306,726				
	303	0.55	\$45,000	\$218,547	\$263,547				
	304	0.68	\$45,000	\$262,570	\$307,570				
	305	0.85	\$40,691	\$235,279	\$275,970]			
	307	0.72	\$2,000	\$6,900	\$8,900				
_	335	14.35	\$280,368	\$0	\$280,368				
	336	3.92	\$99,474	\$0	\$99,474				4
L4	337	5.02	\$111,501	\$0	\$111,501	\$122,146	ROW: 0.7 Ac.	ROW: \$17,392	\$139,538
	338	21.63	\$475,171	\$0	\$475,171	-			
	339	1.79	\$26,545	\$0	\$26,545				
L5	306	1.06	\$41,355	\$320,028	\$361,383	\$49,361	ROW: 0.18 Ac.	ROW: \$8,617	\$57,978
M1	343	4.02	\$81,233	\$0	\$81,233	\$290.062	POW: 1 76 Ac	POW: \$27.044	למת לתכל
M1	344	15.24	\$290,100	\$0	\$290,100	\$280,063	ROW: 1.76 Ac.	ROW: \$27,844	\$307,907
	340	7.1	\$139,255	\$0	\$139,255				
M2	341	12.08	\$312,958	\$0	\$312,958	\$506,675	ROW: 4.29 Ac.	ROW: \$100,342	\$607,017
	342	49.27	\$1,126,127	\$0	\$1,126,127			7100,3-72	
N1	348	8.99	\$194,284	\$233,093	\$427,377	\$127,349	ROW: 0.8 Ac.	ROW: \$20,800	\$148,149

TABLE 4-1: COST COMPARISON

Service Road ID	Parcel	Parcel Aprox. Acreage Remaining	Remnant Value (\$)	Structure Cost (\$)	Parcel Buyout (\$)	Road Construction Cost	ROW & Environmental		Total Cost (\$)
Road ID	ID.		value (3)			(\$)	Impact	Cost (\$)	
	351	8.15	\$102,542	\$0	\$102,542	\$950,152	ROW: 5.22 Ac.	ROW: \$98,277	
N2	352	9.44	\$175,760	\$0	\$175,760		Stream: 195 LF Wetland: 0.44 Ac.	Stream: \$115,830	\$1,204,556
INZ	353	10.71	\$213,885	\$0	\$213,885			Wetland: \$40,297	
	355	20.61	\$330,486	\$0	\$330,486			Wettanu. \$40,297	
N3	354	1.4	\$41,183	\$93,592	\$134,775	\$216,348	ROW: 1.35 Ac.	ROW: \$38,880	\$255,228
N3 & N4	355A	5.21	\$83,544	\$0	\$83,544	\$463,176	ROW: 2.50 Ac.	ROW: \$159,951	\$623,128
	372	9.27	\$174,516	\$0	\$174,516				
	373	44.87	\$499,107	\$0	\$499,107		ROW: 19.86 Ac.	ROW: \$281453	
P1	374	79.75	\$1,106,810	\$0	\$1,106,810	\$5,804,023	Stream: 1188 LF	Stream: \$705,672	\$6,841,519
	375	58.62	\$459,363	\$0	\$459,363		Wetland: 0.54 Ac.	Wetland: \$50,371	
	376	41.44	\$73,855	\$0	\$73,855				

R-2829

	379	59.06	\$585,544	\$0	\$585,544	<u> </u>	ROW: 0.31 Ac.	ROW: \$3966	
Q1	379A	1.12	\$12,320	\$0	\$12,320	\$209,048	Stream: 141 LF	Streams: \$83,754	\$296,768
	37371	1.12	712,320	70	712,320		Q2:	Q2:	
Q2 or Q3	380	37.28	\$538,631	\$0	\$538,631	Q2: \$308,504	ROW: 1.52 Ac. Stream: 116 LF Wetland: 0.03 Ac.	ROW: \$29,445 Stream: \$68,904 Wetland: \$10,074	Q2: \$416,927
	381	64.41	\$920,548	\$0	\$920,548	Q3: \$44,969	Q3: ROW: 0.03 Ac.	Q3: ROW: \$880	Q3: \$45,849
	382	3.72	\$80,800	\$0	\$80,800				
	383	1.18	\$15,600	\$0	\$15,600				
	384	0.23	\$10,800	\$0	\$10,800				
	385	0.24	\$10,800	\$0	\$10,800				
	386	0.47	\$11,880	\$107,104	\$118,984				
	387	0.22	\$10,800	\$0	\$10,800				
	388	0.24	\$6,000	\$0	\$6,000				\$524,501
	389	0.24	\$6,000	\$0	\$6,000				
	390	0.24	\$12,000	\$0	\$12,000				
	391	0.46	\$13,200	\$111,915	\$125,115				
	392	0.24	\$12,000	\$0	\$12,000				
	393	0.23	\$12,000	\$0	\$12,000				
	394	0.24	\$12,000	\$0	\$12,000				
	395	0.24	\$10,800	\$0	\$10,800				
	396	0.48	\$11,880	\$74,481	\$86,361				
	397	0.96	\$12,960	\$73,537	\$86,497				
	398	0.23	\$7,200	\$0	\$7,200				
	399	0.25	\$7,200	\$0	\$7,200				
Q4	400	0.24	\$600	\$0	\$600	ć422.4CC	DOM: 2.0 As	ROW: \$92,035	
Q4	401	0.24	\$600	\$0	\$600	\$432,466	ROW: 2.9 Ac.		
	402	0.24	\$7,200	\$0	\$7,200				
	403	0.24	\$7,200	\$0	\$7,200]			
	404	0.25	\$7,200	\$0	\$7,200]			
	405	0.25	\$7,200	\$0	\$7,200]			
	406	0.48	\$10,800	\$92,041	\$102,841				
	407	0.24	\$7,200	\$0	\$7,200]			
	408	0.25	\$7,200	\$0	\$7,200]			
	409	0.25	\$7,200	\$0	\$7,200]			
	410	0.25	\$7,200	\$0	\$7,200				
	411	0.25	\$7,200	\$0	\$7,200				
	412	0.24	\$7,200	\$0	\$7,200				
	413	0.26	\$7,200	\$0	\$7,200]			
	414	0.23	\$7,200	\$0	\$7,200				
	415	0.29	\$12,000	\$0	\$12,000				
	416	0.31	\$12,000	\$63,222	\$75,222	1			
	417	0.24	\$12,000	\$60,875	\$72,875				
	418	0.24	\$12,000	\$0	\$12,000				
	419	0.48	\$13,200	\$74,197	\$87,397				

TABLE 4-1: COST COMPARISON

Service	Parcel	Aprox.	Remnant	Structure Cost	Parcel Buyout	Road	ROW & Env	ironmontal	
Road ID	ID.	Acreage	Value (\$)	(\$)	(\$)	Construction Cost			Total Cost (\$)
	420	Remaining 0.48	\$12,000	\$101,429	\$113,429	(\$)	Impact	Cost (\$)	
	421	0.48	\$12,000	\$64,804	\$76,804	1			
	422	0.96	\$14,400	\$72,314	\$86,714				
	423	0.25	\$12,000	\$161,808	\$173,808				
	424	0.24	\$12,000	\$0	\$12,000				
	425	0.49	\$12,000	\$0	\$12,000				
	426 427	0.24 0.24	\$12,000	\$0 \$0	\$12,000 \$2,400				
	428	0.24	\$2,400 \$2,400	\$0	\$2,400				
	429	0.24	\$2,400	\$0	\$2,400				
	430	0.25	\$2,400	\$0	\$2,400				
	431	0.24	\$2,400	\$0	\$2,400				
	432	0.24	\$6,000	\$0	\$6,000				
	433	0.24	\$6,000	\$0 \$0	\$6,000				
	434	0.24 0.48	\$6,000 \$18,000	\$0 \$0	\$6,000 \$18,000	1			
	436	0.47	\$13,200	\$56,946	\$70,146	1			
	437	0.49	\$12,000	\$57,697	\$69,697				
	438	0.72	\$14,400	\$36,909	\$51,309				
	439	0.48	\$18,000	\$51,423	\$69,423				
	440	0.24	\$12,000	\$0	\$12,000	-			
	441	0.24	\$12,000	\$0	\$12,000				
	442	0.48 0.25	\$13,200 \$12,000	\$55,130 \$0	\$68,330 \$12,000				
	444	0.25	\$6,000	\$0	\$6,000	1			
	445	0.24	\$12,000	\$72,497	\$84,497				
	446	0.24	\$12,000	\$0	\$12,000				
	447	0.24	\$12,000	\$0	\$12,000				
	448	0.25	\$6,000	\$0	\$6,000	-			
Q4	449 450	0.49 0.5	\$13,200 \$21,600	\$65,568 \$121,525	\$78,768 \$143,125	\$432,466	ROW: 2.9 Ac.	ROW: \$92,035	\$524,501
Q4	451	0.24	\$12,000	\$121,323	\$143,123	J432,400	NOW. 2.3 Ac.	NOW. 332,033	7324,301
	452	0.25	\$12,000	\$0	\$12,000				
	453	0.25	\$12,000	\$0	\$12,000				
	454	0.24	\$12,000	\$0	\$12,000				
	455	0.24	\$12,000	\$0	\$12,000	-			
	456 457	0.29	\$12,000	\$0 60	\$12,000				
	457	0.25 0.23	\$12,000 \$12,000	\$0 \$0	\$12,000 \$12,000	1			
	459	0.24	\$12,000	\$0	\$12,000	1			
	460	0.24	\$6,000	\$0	\$6,000	-			
	461	0.25	\$6,000	\$0	\$6,000				
	462	0.25	\$6,000	\$0	\$6,000]			
	463	0.27	\$6,000	\$0 60	\$6,000				
	464 465	0.25 0.26	\$3,600 \$3,600	\$0 \$0	\$3,600 \$3,600	1			
	466	0.26	\$3,600	\$0 \$0	\$3,600	1			
	467	0.28	\$600	\$0	\$600	1			
	468	0.24	\$4,200	\$0	\$4,200				
	469	0.24	\$3,000	\$0	\$3,000				
	470	0.23	\$3,600	\$0	\$3,600	1			
	471	0.23	\$9,600	\$0 \$0	\$9,600				
	472 473	0.81 0.64	\$14,400 \$13,200	\$60,582 \$97,469	\$74,982 \$110,669	1			
	474	0.64	\$13,200	\$97,469	\$110,669	1			
	475	0.29	\$13,200	\$0	\$12,000	1			
	476	0.26	\$12,000	\$205,847	\$217,847]			
	477	0.25	\$12,000	\$0	\$12,000]			
	478	0.25	\$12,000	\$0	\$12,000]			
	479	0.47	\$13,200	\$55,591	\$68,791				
L	480	0.51	\$13,200	\$77,656	\$90,856	<u> </u>			

TABLE 4-1: COST COMPARISON

IADLE 4	+-1: UC	Aprox	AKIOUN			Bood			
Service	Parcel	Aprox.	Remnant	Structure Cost	Parcel Buyout	Road	ROW & Env	vironmental	Total Cost (¢)
Road ID	ID.	Acreage	Value (\$)	(\$)	(\$)	Construction Cost	lmar+	Cost (A)	Total Cost (\$)
	401	Remaining				(\$)	Impact	Cost (\$)	
	481	0.48	\$13,200	\$0	\$13,200	-			
	482	0.45	\$13,200	\$131,950	\$145,150				
	483	0.48	\$13,200	\$89,711	\$102,911				
	484	0.26	\$5,400	\$0	\$5,400				
	485	0.24	\$5,400	\$0	\$5,400				
	486	0.24	\$10,800	\$0	\$10,800				
	487	0.2	\$10,800	\$0	\$10,800				
	488	0.24	\$10,800	\$0	\$10,800				
	489	0.25	\$12,000	\$0	\$12,000				
	490	0.26	\$12,000	\$74,403	\$86,403				
	491	0.26	\$12,000	\$0	\$12,000				
	492	0.5	\$11,880	\$107,447	\$119,327				
	493	0.48	\$11,880	\$52,230	\$64,110				
	494	0.24	\$7,200	\$0	\$7,200				
	495	0.27	\$7,200	\$0	\$7,200				
	496	0.23	\$7,200	\$0	\$7,200				
	497	0.24	\$7,200	\$0	\$7,200				
	498	0.79	\$14,400	\$171,802	\$186,202				
	498A	0.25	\$12,000	\$0	\$12,000				
	499A	0.32	\$12,000	\$0	\$12,000	1			
	500	0.32	\$7,200	\$0	\$7,200				
	501	0.3	\$5,400	\$0 \$0	\$5,400	1			
						-			
	502	0.26	\$5,400	\$0 60	\$5,400	-			
	503	0.26	\$5,400	\$0	\$5,400	-			
	504	0.24	\$5,400	\$0	\$5,400	-			
	505	0.22	\$5,400	\$0	\$5,400				
	506	0.33	\$5,400	\$0	\$5,400				
	507	0.24	\$7,200	\$0	\$7,200				
	508	0.24	\$7,200	\$0	\$7,200				
Q4	509	0.25	\$7,200	\$0	\$7,200	\$432,466	ROW: 2.9 Ac.	ROW: \$92,035	\$524,501
	510	0.22	\$4,800	\$0	\$4,800				
	511	0.23	\$4,800	\$0	\$4,800				
	512	0.49	\$13,200	\$140,686	\$153,886				
	513	0.28	\$12,000	\$0	\$12,000				
	514	0.48	\$11,880	\$129,789	\$141,669				
	515	0.24	\$10,800	\$0	\$10,800				
	516	0.22	\$10,800	\$0	\$10,800				
	517	0.23	\$10,800	\$0	\$10,800				
	518	0.24	\$10,800	\$109,938	\$120,738				
	519	0.28	\$10,800	\$0	\$10,800				
	520	0.31	\$7,200	\$0	\$7,200				
	521	0.32	\$7,200	\$0	\$7,200	1			
	522	0.48	\$11,880	\$82,922	\$94,802	1			
	523	0.48	\$11,880	\$0	\$11,880	1			
	524	0.24	\$10,800	\$0	\$10,800	1			
	525	0.24	\$10,800	\$0	\$10,800	1			
	526	0.49	\$10,800	\$123,611	\$134,411	1			
	527	0.25	\$10,800	\$0	\$10,800	1			
	528	0.24	\$10,800	\$0	\$10,800	1			
	529	0.24	\$10,800	\$0	\$10,800	1			
	530	0.21	\$7,200	\$0 \$0	\$7,200	1			
	530	0.23	\$7,200	\$0 \$0	\$7,200	-			
						1			
	532	0.28	\$7,200	\$0 \$0	\$7,200	-			
	533	0.29	\$12,000	\$0	\$12,000				
	534	0.25	\$12,000	\$0	\$12,000				
	535	0.45	\$13,200	\$47,708	\$60,908				
	536	0.47	\$13,200	\$0	\$13,200				
	537	0.24	\$12,000	\$0	\$12,000				
	538	0.24	\$12,000	\$0	\$12,000				
Q5	539	1.23	\$33,825	\$0	\$33,825	\$147,692	ROW: 0.56 Ac.	ROW: \$12,600	\$252,956
۵,5	555	2.23	+55,6 <u>2</u> 5	70	Ç33,023	Ç2.7,032	Stream: 156 LF	Stream: \$92,664	Ţ_5_,550

TABLE 4-1: COST COMPARISON

Service	Parcel	Aprox. Acreage	Remnant	Structure Cost	Parcel Buyout	Road Construction Cost	ROW & Env	rironmental	Total Cost (\$)
Road ID	ID.	Remaining	Value (\$)	(\$)	(\$)	(\$)	Impact	Cost (\$)	Total Cost (3)
	545A	0	\$0	\$0	\$0	(4)		,.,	
	546A	0.22	\$3,300	\$0	\$3,300		ROW: 2.25 Ac.	ROW: \$22,680	
R1	547A	2.39	\$35,116	\$63,821	\$98,937	\$295,683	Stream: 449 LF	Stream: \$266,706	\$595,143
	548A	1.91	\$27,887	\$0	\$27,887		Wetland: 0.05 Ac.	Wetland: \$10,074	
	541	2.95	\$65,259	\$203,930	\$269,189				
	541A	0.33	\$8,250	\$0	\$8,250	1			
	541B	1.85	\$50,875	\$0	\$50,875	1			
	541C	2	\$55,000	\$142,317	\$197,317				
	541D	2.02	\$55,300	\$0	\$55,300				
	541E	1.81	\$56,200	\$187,702	\$243,902				
	541F	4.28	\$89,200	\$206,139	\$295,339		ROW: 12.01 Ac.	ROW: \$194,159	
R2	542	2.35	\$60,250	\$0	\$60,250	\$2,159,251	Stream: 386 LF	Stream: \$229,284	\$2,606,261
	543	28.07	\$374,650	\$255,558	\$630,208		Wetland: 0.05 Ac.	Wetland: \$10,074	
	544	4.98	\$139,500	\$246,973	\$386,473				
	545	44.78	\$668,439	\$0	\$668,439				
	546	10.68	\$160,200	\$32,450	\$192,650				
	547	3.81	\$55,979	\$0	\$55,979				
	548	9.11	\$133,009	\$8,050	\$141,059				
	549	5.54	\$68,966	\$0	\$68,966				
S1	552	3.88	\$77,712	\$0	\$77,712	\$382,846	ROW: 2.18 Ac.	ROW: \$42,993	\$425,839
S2	560	22.37	\$328,694	\$0	\$328,694	\$707,268	ROW: 3.33 Ac.	ROW: \$150,011	\$857,280
32	560B	4.71	\$205,725	\$1,853,481	\$2,059,206	\$707,208	NOW. 3.33 Ac.	KOW. \$130,011	3637,260
	556	5.83	\$1,142,796	\$2,108,619	\$3,251,415				
S3	557	4.67	\$223,170	\$32,900	\$256,070	\$237,324	ROW: 1.22 Ac.	ROW: \$31,720	\$269,044
33	558	28.27	\$1,125,106	\$0	\$1,125,106	7237,324	NOW. 1.22 Ac.	1000. 931,720	7203,044
	559	3.57	\$166,177	\$0	\$166,177				
S4	561	19.63	\$279,514	\$0	\$279,514	\$783,363	ROW: 3.69 Ac. Stream: 274 LF	ROW: \$55,016 Stream: \$162,756	\$1,001,135
T1	564	90.43	\$2,351,180	\$0	\$2,351,180	\$113,547	ROW: 0.59 Ac.	ROW: \$12,617	\$126,164
	570	1.12	\$31,360	\$0	\$31,360				
T2	571	3.23	\$85,165	\$22,996	\$108,161	\$241,648	ROW: 1.49 Ac.	ROW: \$28,762	\$270,410
T3	565	29.58	\$307,784	\$100	\$307,884	\$307,053	ROW: 1.92 Ac.	ROW: \$38,220	\$345,274
T4	566	2.52	\$68,088	\$19,671	\$87,759	\$239,965	ROW: 1.41 Ac.	ROW: \$29,312	\$269,277
	575	37.97	\$654,535	\$0	\$654,535	, ,		, ,	\$571,962
U1 & U2	576	12.6	\$222,571	\$0	\$222,571	\$500,670	ROW: 3.07 Ac.	ROW: \$71,291	
	579A	6.83	\$115,617	\$0	\$115,617				
	577	12.27	\$283,065	\$0	\$283,065				
U3	578	2.72	\$70,272	\$0	\$70,272	\$815,894	ROW: 4.33 Ac.	ROW: \$81,574	\$1,171,302
	579	12.02	\$203,472	\$0	\$203,472		Streams: 461 LF	Stream: \$273,834	
	580	64.14	\$1,268,285	\$0	\$1,268,285		ROW: 4.17 Ac.	ROW: \$132,138	
U4	581	5.56	\$127,690	\$0	\$127,690	\$620,072	Stream: 123 LF Wetland: 0.37 Ac.	Stream: \$73,062 Wetland: \$30,223	\$855,494
	585	8.47	\$165,194	\$0	\$165,194	4.05			440
V1	587	9.27	\$284,662	\$0	\$251,314	\$182,325	ROW: 0.97 Ac.	ROW: \$14,769	\$197,094
V2	586A	3.65	\$112,084	\$0	\$112,084	\$109,050	ROW: 0.55 Ac. Stream: 102 LF	ROW: \$10,839 Stream: \$60,588	\$180,477
	588	0.7	\$40,000	\$30,951	\$70,951		30.00m. 102 El	3ti cami 900,300	
	589	1.09	\$40,000	\$0	\$40,000	1			
	590	0.82	\$40,000	\$0 \$0	\$40,000	1			
V3	591	0.82	\$40,000	\$29,825	\$69,825	\$390,290	ROW: 0.69 Ac.	ROW: \$37,637	\$438,001
٧٥	592	0.92	\$40,000	\$500	\$40,500	,350,250	Wetland: 0.01 Ac.	Wetland: \$10,074	,430,UU1
	593	0.87	\$40,000	\$58,252	\$98,252	1			
	594	0.84	\$40,000	\$7,830	\$47,830	1			
		J.U-F	¥ 10,000	7,,000	7 17,000	i			

5. RECOMMENDATIONS

The analysis conducted and summarized in Section 2 through Section 5 was used to further refine the design for some service roads. It should be noted that NCTA may elect to further modify the layout and design of the service roads based on potential cost and material savings or to suit modifications requested by individual land-locked property owners. Some service roads would require merging two neighborhoods which may not be preferred by affected homeowners. If the service road was built off of a neighborhood road, NCDOT would be required to take over maintenance of the neighborhood roads leading up to the service road. The cost of the maintenance was not included in the cost comparison or summary.

Table 5-1 was developed based on additional design details for each service road. To facilitate a comparison, the cost to purchase the properties and the total cost to provide a service road are listed in bold text. The roads that did not prove to be cost effective in this study were highlighted in red.

TABLE 5-1: COST SUMMARY

Service Road ID	Parcel I.D.	Purchase Cost	Road Cost	Environmental Cost	ROW Cost	Total Cost
D1	6	\$242,789	\$270,792	\$0	\$103,973	\$374,765
E1 & E2	14-173	\$7,146,845	\$1,252,448	\$0	\$399,455	\$1,651,903
E3 & E4	14-173	\$7,146,845	\$455,956	\$0	\$208,198	\$664,155
G1	177	\$429,433	\$111,969	\$121,723	\$10,222	\$243,913
G2	178-193, 193A	\$3,542,210	\$113,955	\$0	\$11,577	\$125,532
G3	178-199	\$4,493,277	\$684,787	\$33,858	\$596,960	\$1,315,605
G4	200-204	\$851,725	\$499,088	\$0	\$370,512	\$869,600
G5	178-193, 193A	\$3,542,210	\$140,622	\$0	\$32,020	\$172,642
H1	217-228, 230, 231	\$2,505,961	\$266,219	\$0	\$91,757	\$357,976
H2	211-214	\$301,274	\$421,185	\$0	\$210,729	\$631,914
Н3	237	\$155,664	\$233,859	\$0	\$83,780	\$317,638
I1	243-244	\$625,830	\$471,135	\$30,223	\$129,993	\$631,351
12	245-251, 244A	\$1,716,390	\$242,368	\$0	\$78,705	\$321,073
J1	260	\$440,061	\$56,412	\$68,310	\$4,766	\$129,488
K1	261-263	\$345,914	\$708,012	\$10,074	\$32,849	\$750,936
L1	266	\$481,034	\$67,832	\$0	\$6,136	\$73,969
L2 & L2A	308-310	\$650,604	\$139,153	\$0	\$17,069	\$156,222
L3	267-307	\$10,711,780	\$336,483	\$0	\$116,376	\$452,860
L4	335-339	\$993,060	\$122,146	\$0	\$17,392	\$139,538
L5	306	\$361,383	\$49,361	\$0	\$8,617	\$57,978
M1	343-344	\$371,333	\$280,063	\$0	\$27,844	\$307,907
M2	340-342	\$1,578,341	\$506,675	\$0	\$100,342	\$607,017
N1	348	\$427,377	\$127,349	\$0	\$20,800	\$148,149
N2	351-353, 355	\$822,673	\$950,152	\$156,127	\$98,277	\$1,204,556

Service Road ID	Parcel I.D.	Purchase Cost	Road Cost	Environmental Cost	ROW Cost	Total Cost
N3	354	\$134,775	\$216,348	\$0	\$38,880	\$255,228
N3 & N4	354, 355A	\$83,544	\$463,176	\$0	\$159,951	\$623,128
P1	372-376, 379, 379A	\$2,313,651	\$5,804,023	\$756,043	\$281,453	\$6,841,519
Q1	379, 379A	\$597,864	\$209,048	\$83,754	\$3,966	\$296,768
Q2	380-381	\$1,459,178	\$308,504	\$78,978	\$29,445	\$416,927
Q3	380-381	\$1,459,178	\$44,969	\$0	\$880	\$45,849
Q4	382-538	\$4,931,884	\$432,466	\$0	\$92,035	\$524,501
Q5	539	\$33,825	\$147,692	\$92,664	\$12,600	\$252,956
R1	545A, 546A, 547A, 548A	\$130,123	\$295,683	\$276,780	\$22,680	\$595,143
R2	541, 541A-541F, 542- 549	\$3,324,196	\$2,159,251	\$239,358	\$207,652	\$2,606,261
S1	552	\$77,712	\$382,846	\$0	\$42,993	\$425,839
S2	560, 560B	\$2,387,900	\$707,268	\$0	\$150,011	\$857,280
S3	556-559	\$4,798,768	\$237,324	\$0	\$31,720	\$269,044
S4	561	\$279,514	\$783,363	\$162,756	\$55,016	\$1,001,135
T1	564	\$2,351,180	\$113,547	\$0	\$12,617	\$126,164
T2	570-571	\$139,521	\$241,648	\$0	\$28,762	\$270,410
T3	565	\$307,884	\$307,053	\$0	\$38,220	\$345,274
T4	566	\$87,759	\$239,965	\$0	\$29,312	\$269,277
U1 & U2	575-576, 279A	\$992,723	\$500,670	\$0	\$71,291	\$571,962
U3	577-579	\$556,809	\$815,894	\$273,834	\$81,574	\$1,171,302
U4	580-581	\$1,395,976	\$620,072	\$103,285	\$132,138	\$855,494
V1	585, 586A	\$416,508	\$182,325	\$0	\$14,769	\$197,094
V2	587	\$112,084	\$109,050	\$60,588	\$10,839	\$180,477
V3	588-595	\$487,930	\$390,290	\$10,074	\$37,637	\$438,001
V4	582, 583, 586	\$300,037	\$89,795	\$0	\$84,213	\$174,009

Table 5-1 represents the viability of each service road based on cost alone, but there are additional factors that will play a role in which service roads will be recommended for construction. For example, G2 is the most cost effective between the three options for the area, but would require NCDOT to take over maintenance of the most neighborhood roads. G3 is the move expensive of the three, but impacts the shortest length of neighborhood roads. G3 also would change the access point for parcels 196 through 199 to the back of the home making them less desirable and would potentially decrease their property value.

As mentioned in Section 3, some service roads would require another service road to be built first. In these scenarios, each service road was analyzed separately. For example, construction of V2 would require V1 to be built first. Because only the V1 portion was cost effective, the two roads were not analyzed together.

Another factor that may sway the service road recommendations is consideration for mitigation sites. Although some service roads may be cost effective, it's possible that the affected parcels could still be bought out to use

as mitigation sites for the Complete 540 project. Service road P1 did not prove to be cost effective, but the associated parcels provide a good example for eligible mitigation sites. Due to the conservation efforts to Swift Creek and the contributions it makes to the dwarf wedge mussel habitat, any property acquisitions in area P (Parcels 372-376, 379, and 379A) should be considered for conservation sites to reduce potential increases in impervious surface.

The final recommendations are listed in Table 5-2 along with the amount saved by constructing the service road(s) listed in bold. In scenarios where it was required to build one service road in order to build another, both roads were analyzed together.

TABLE 5-2: FINAL SERVICE ROAD RECOMMENDATIONS

TIP#	Appendix B Figure #	Service Road ID	No Build Cost	Build Cost	Delta
R-2721	B-2C	E1, E2, E3 & E4	\$7,146,845	\$2,316,057	\$4,830,787
	B-3A	G1 & G2	\$3,971,643	\$369,445	\$3,602,197
	B-5	H1	\$2,505,961	\$357,976	\$2,147,984
	B-6	H2	\$301,274	\$631,914	-\$330,641
	B-7	I1	\$625,830	\$631,351	-\$5,521
	B-9	12	\$1,716,390	\$321,073	\$1,395,317
	B-10	J1	\$440,061	\$129,488	\$310,574
R-2828	B-12	L1	\$481,034	\$73,969	\$407,065
	B-13	L2 & L2A	\$650,604	\$156,222	\$494,382
	B-14	L3 & L5	\$11,073,163	\$510,838	\$10,562,325
	B-15	L4	\$993,060	\$139,538	\$853,522
	B-17	M1	\$371,333	\$307,907	\$63,426
	B-16	M2	\$1,578,341	\$607,017	\$971,324
	B-18	N1	\$427,377	\$148,149	\$279,229
R-2829	B-22	Q1	\$597,864	\$296,768	\$301,096
	B-23B	Q3	\$1,459,178	\$45,849	\$1,413,329
	B-24	Q4	\$4,931,884	\$524,501	\$4,407,383
	B-26	R2	\$3,324,196	\$2,606,261	\$717,935
	B-28	S2	\$2,387,900	\$857,280	\$1,530,620
	B-29	S3	\$4,798,768	\$269,044	\$4,529,725
	B-31	T1	\$2,351,180	\$126,164	\$2,225,016
	B-35	U1 & U2	\$992,723	\$571,962	\$420,762
	B-37	U4	\$1,395,976	\$855,494	\$540,481
	B-38A	V1	\$416,508	\$197,094	\$219,414
	B-40	V3	\$487,930	\$438,001	\$49,929
	B-39	V4	\$300,037	\$174,009	\$126,029

Because some areas had more than one option, not all roads were recommended even though they proved to be cost effective. If each option was cost effective, the one that costed the least per parcel saved was chosen

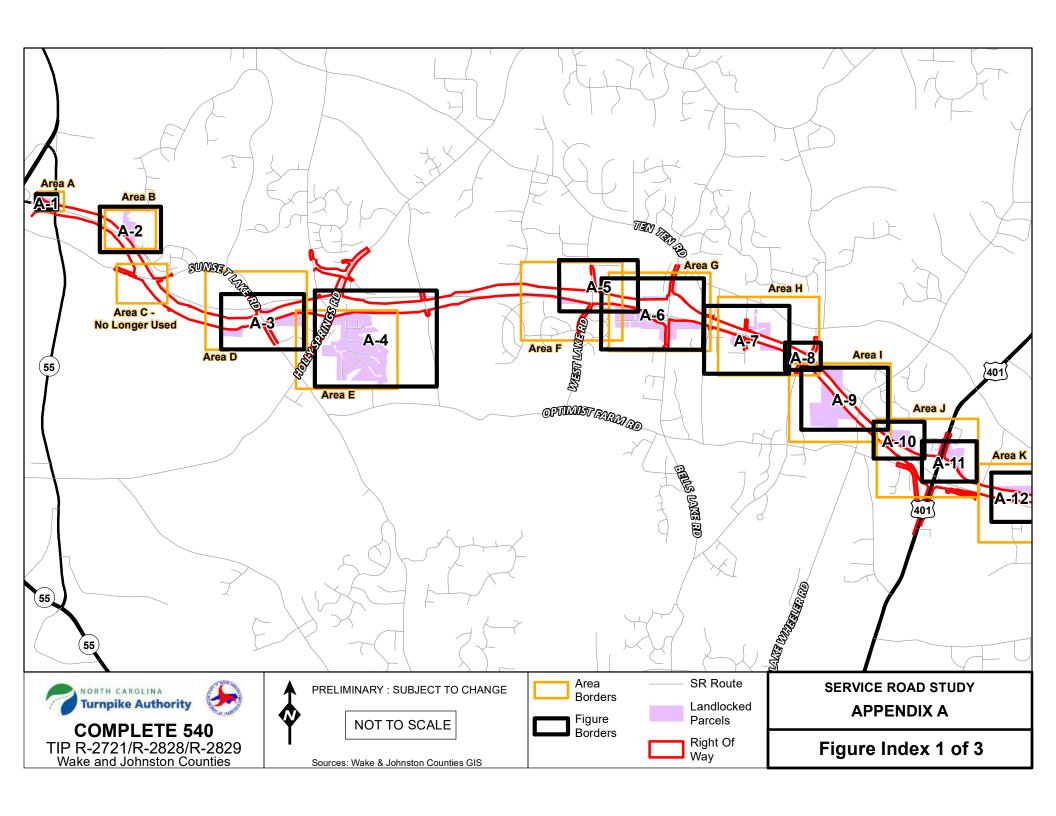
with the exception of Area E. In Area E, both road options were recommended to move forward due to the large number of parcels the roads would be serving. E3 and E4 were the most cost effective per parcel, but did not allow left turns into the subdivision. E1 and E2 are on Holly Springs' Long Range Transportation Plan and would allow all traffic movements to and from the subdivision. Table 5-2 shows the build cost of E1, E2, E3, and E4 all together compared to the total parcel buyout cost, and was still found to be cost effective.

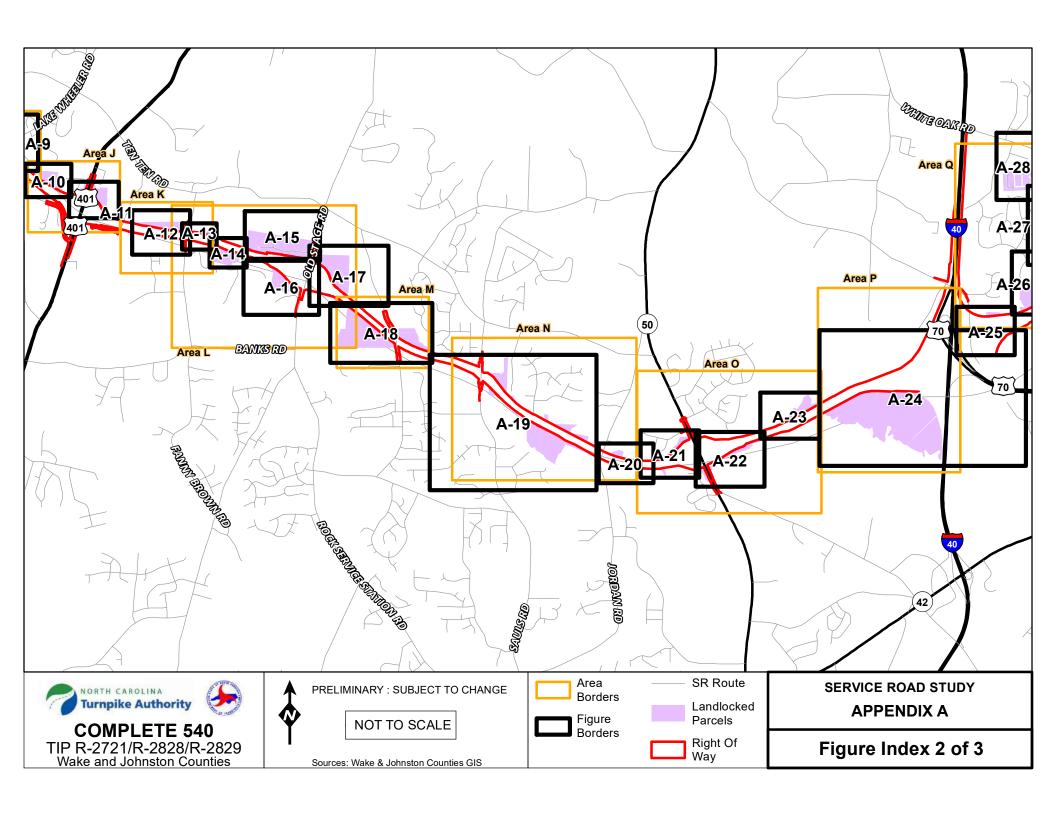
Service Road H2 had a negative cost delta, but was still recommended for detour purposes. H2 will provide access to the southern portion of Deer Meadow Dr. during the construction of the bridge along Deer Meadow. Service road I1 also had a negative cost delta, but because the delta was so small, it was still recommended.

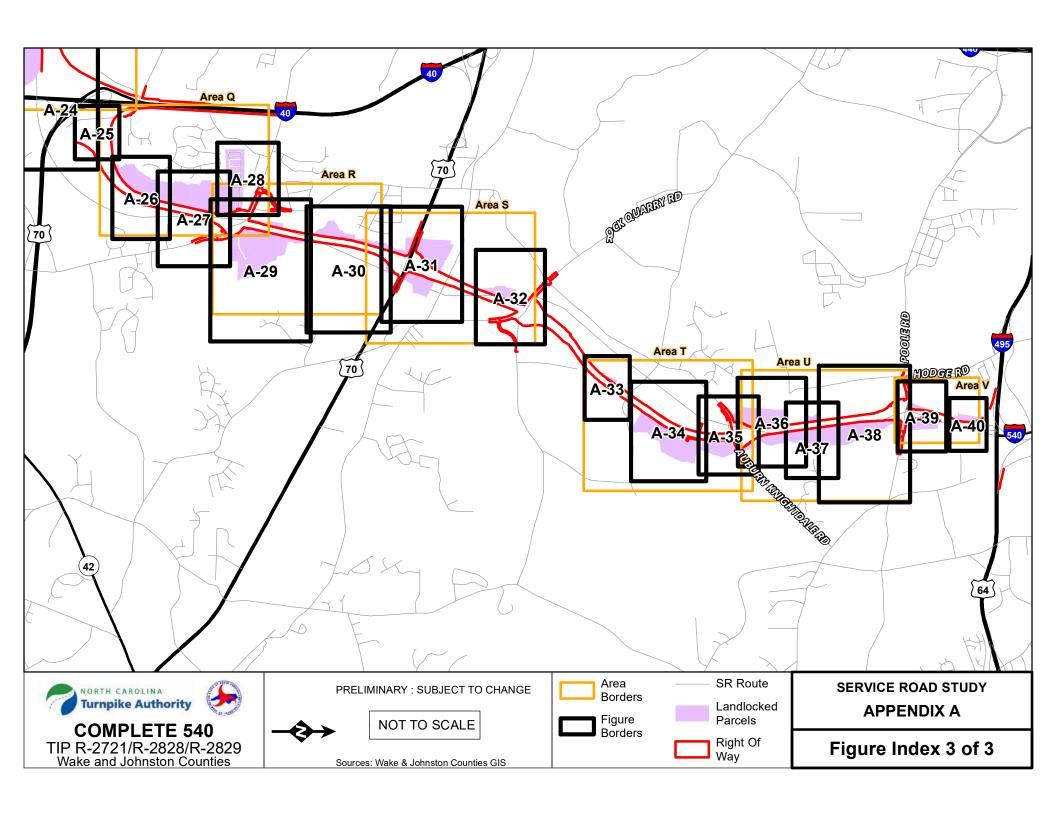
APPENDIX A

Property Access Figures

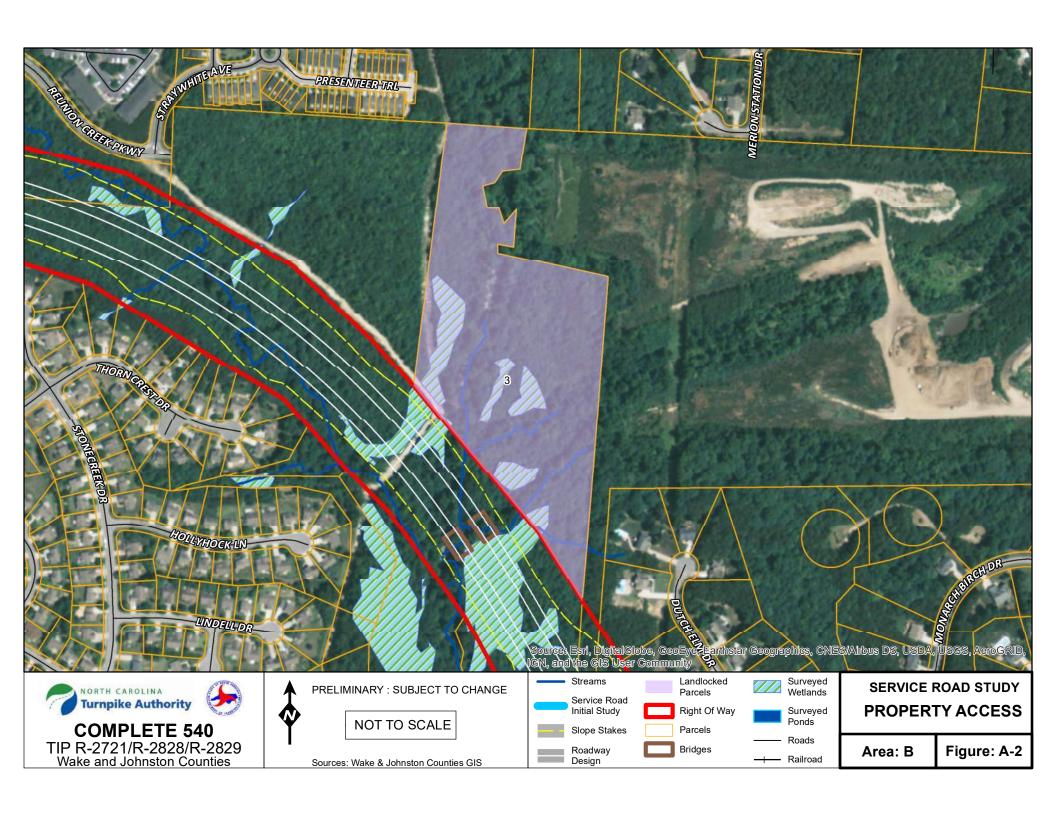
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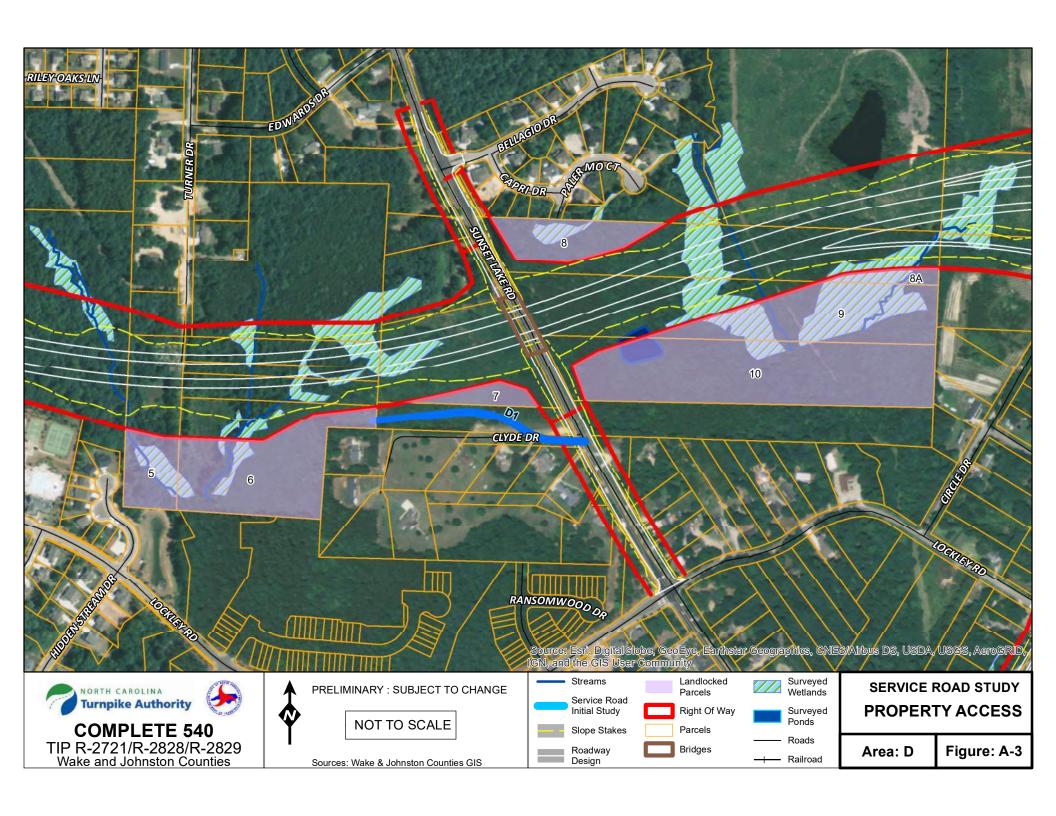


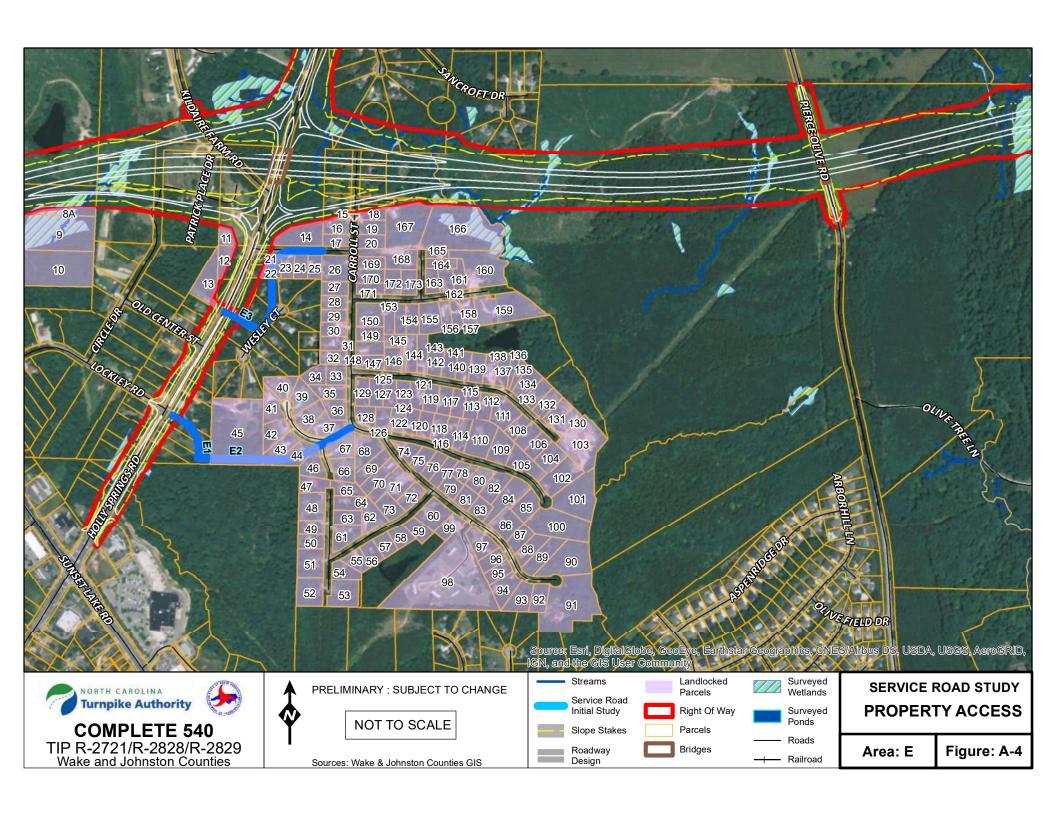


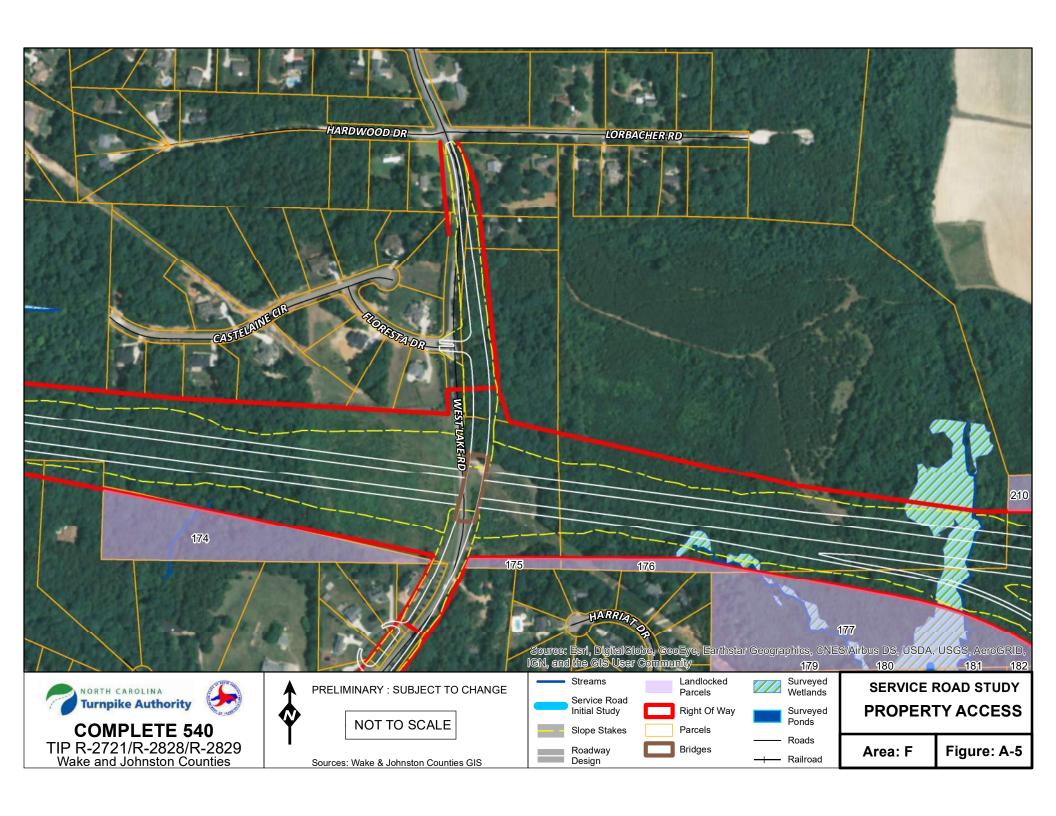


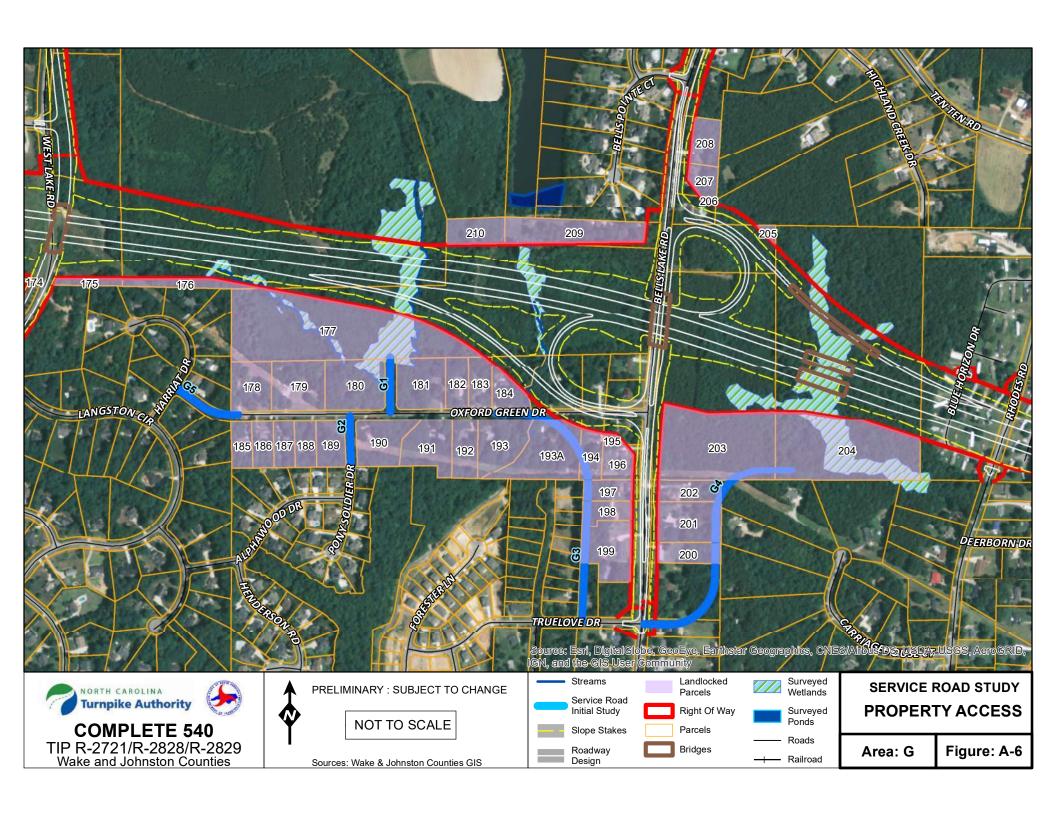


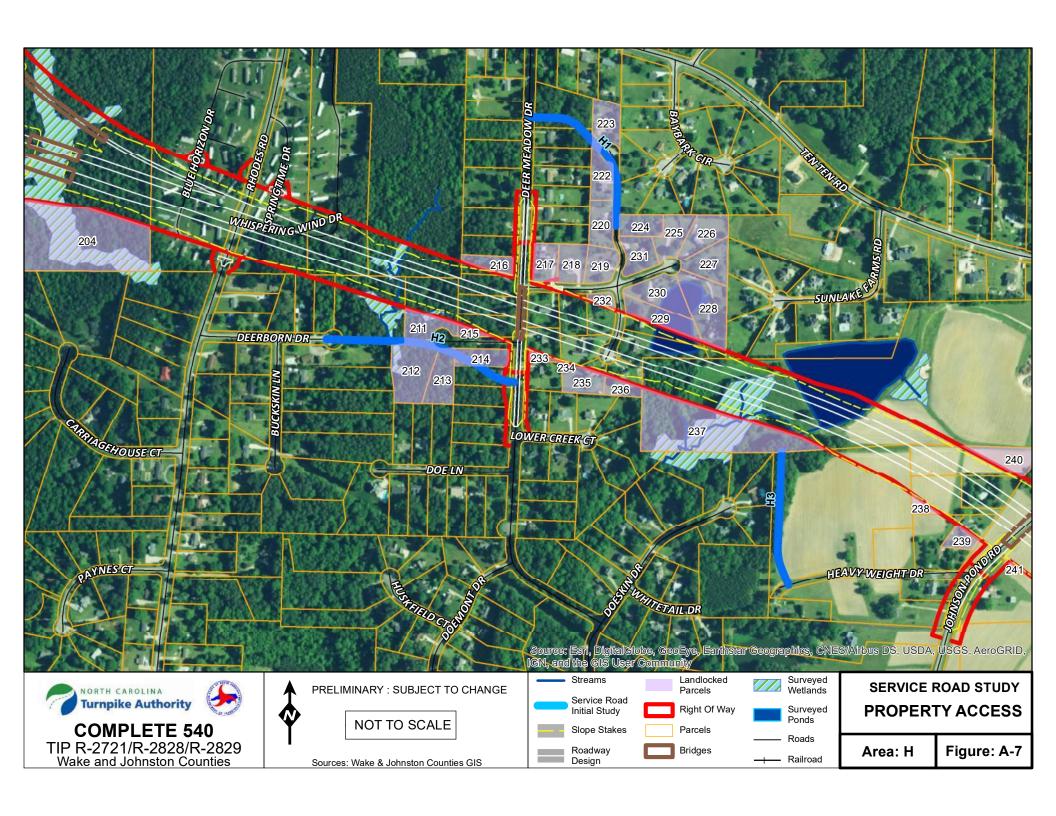


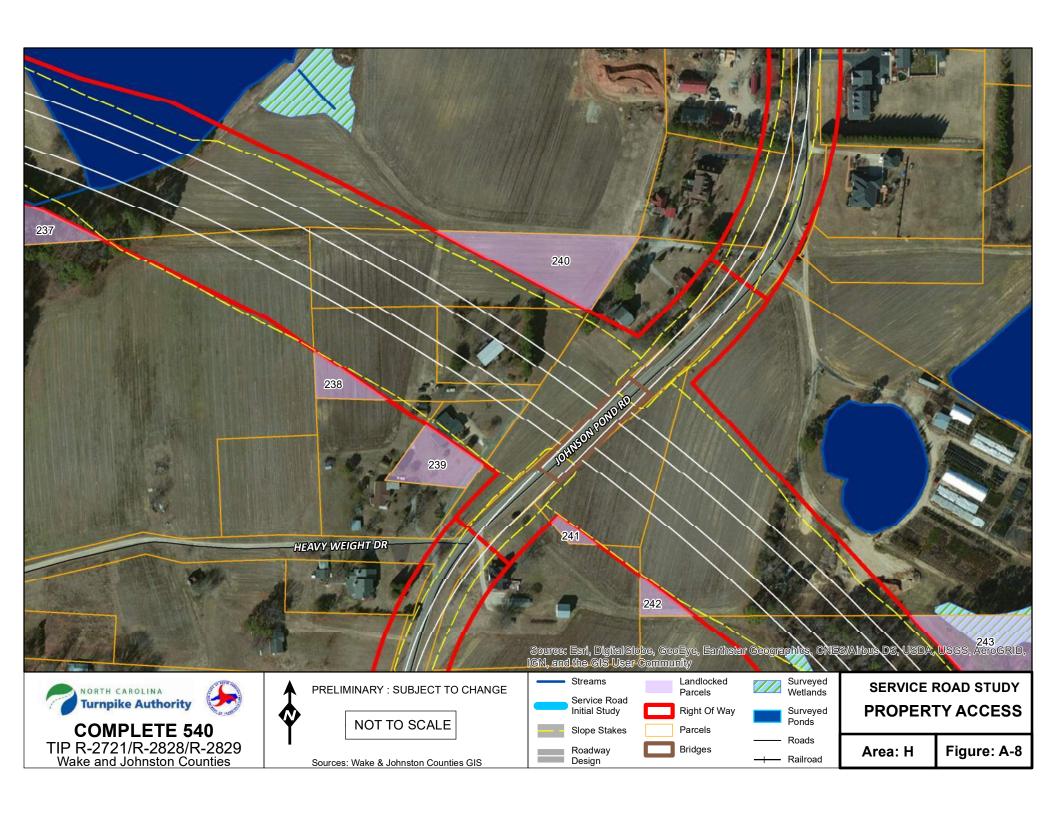


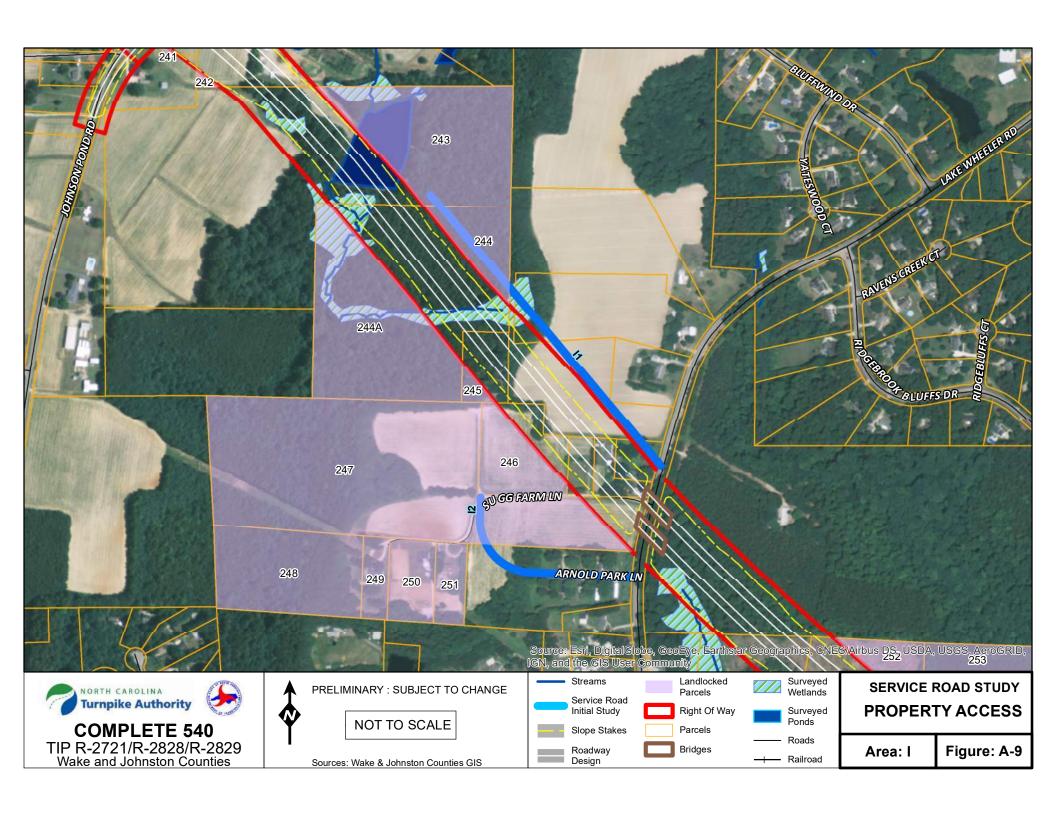


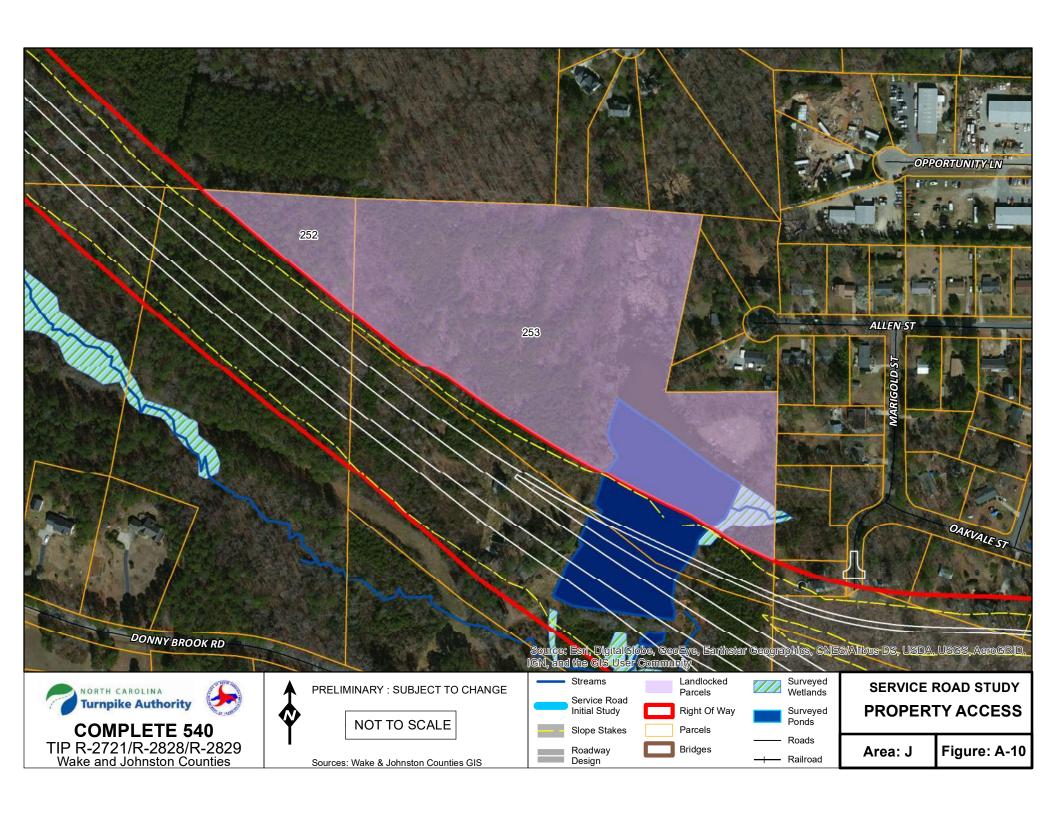


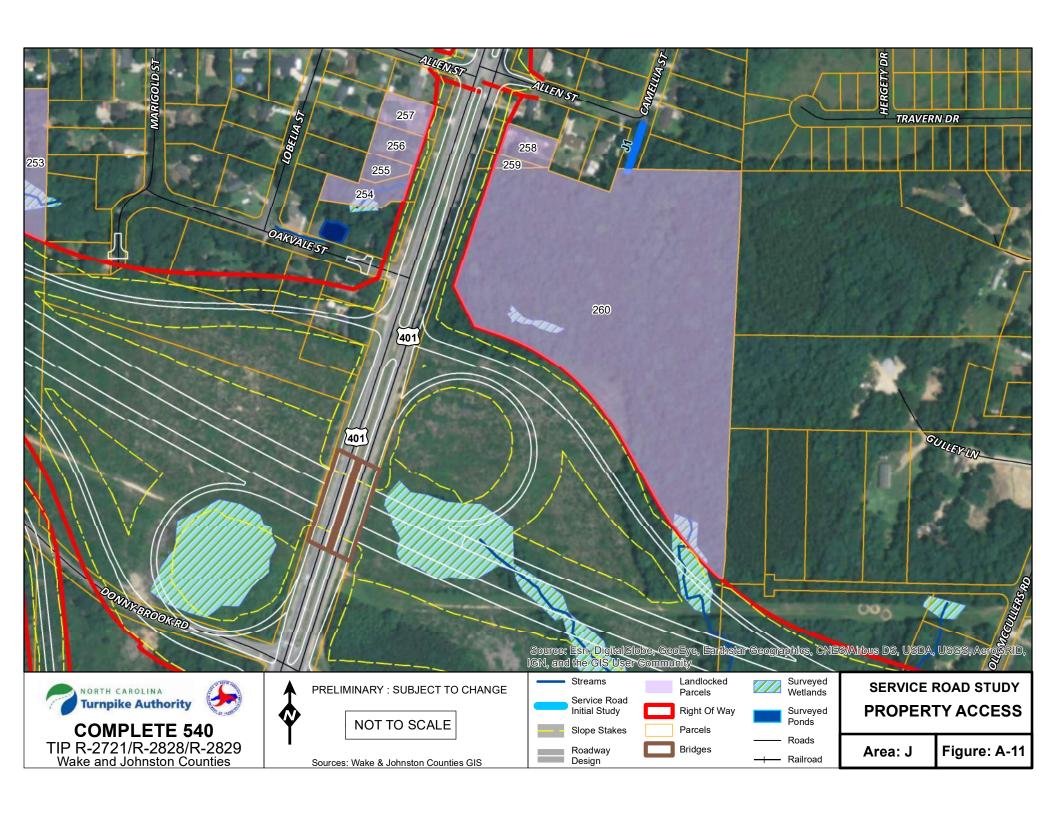


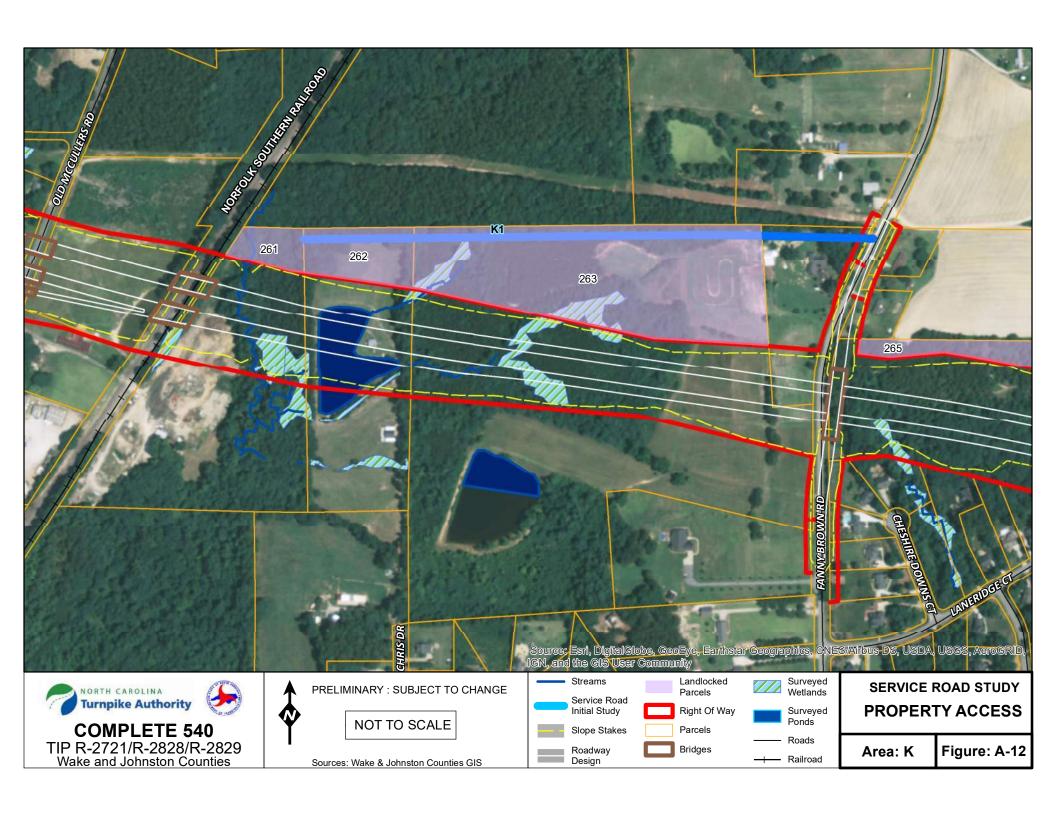


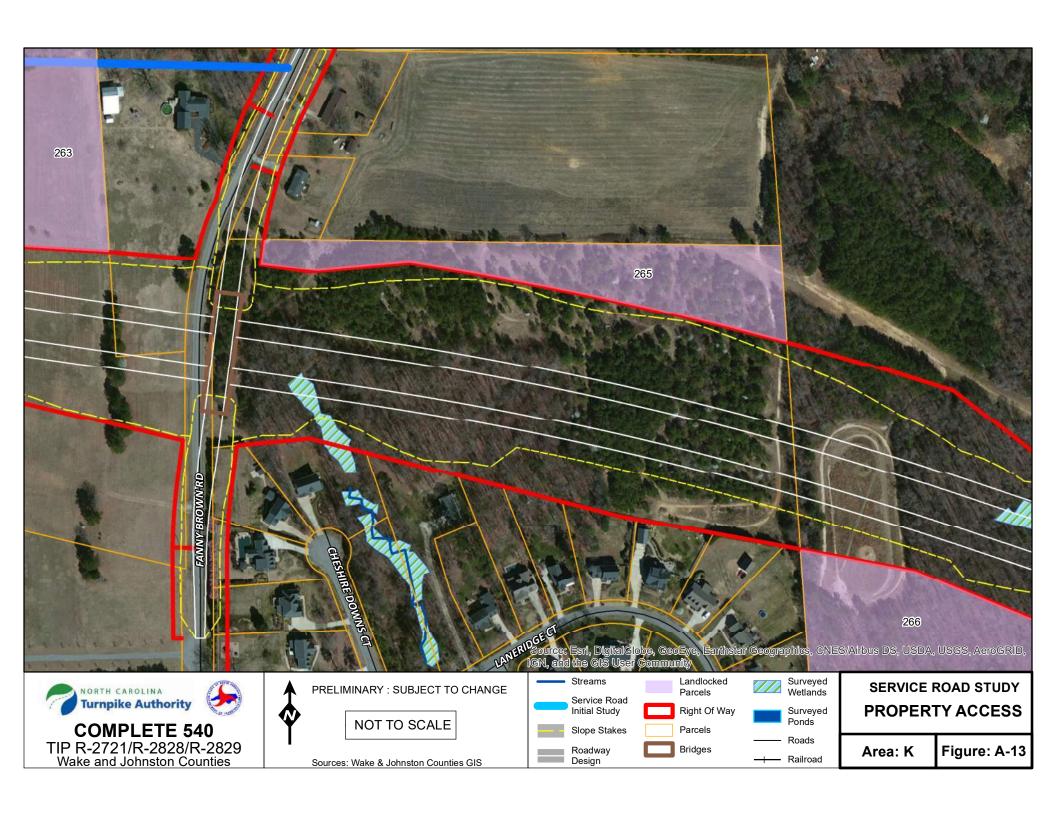


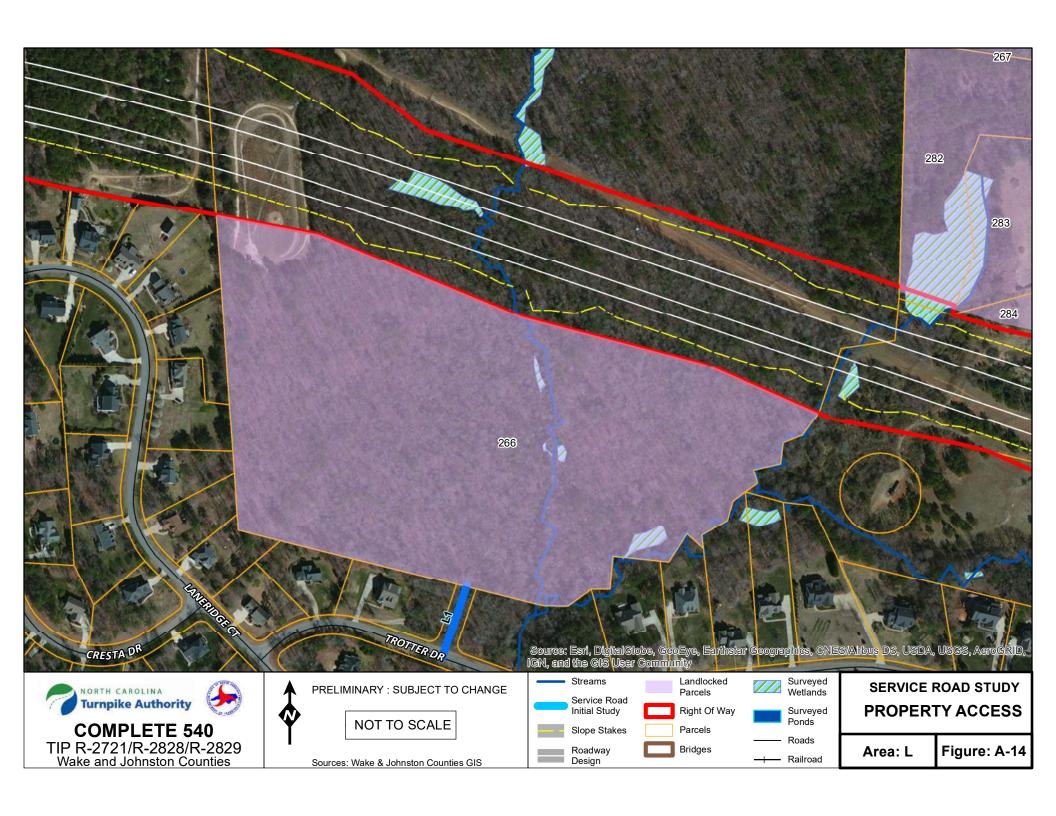


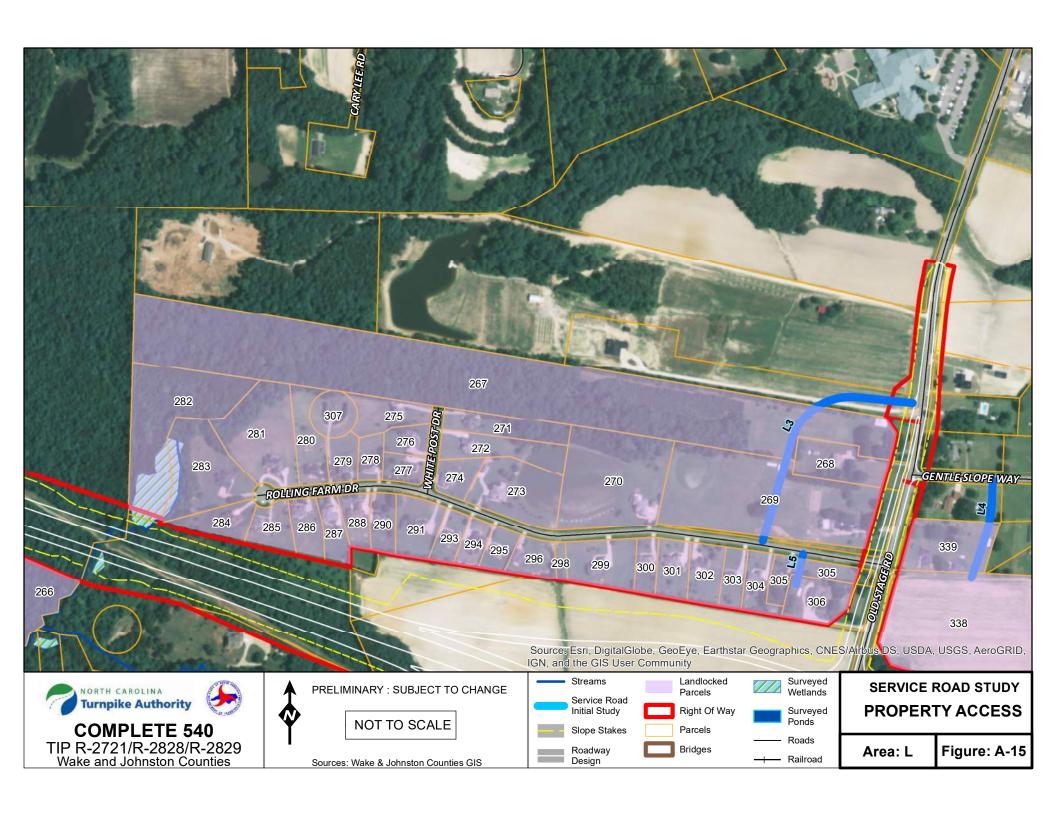


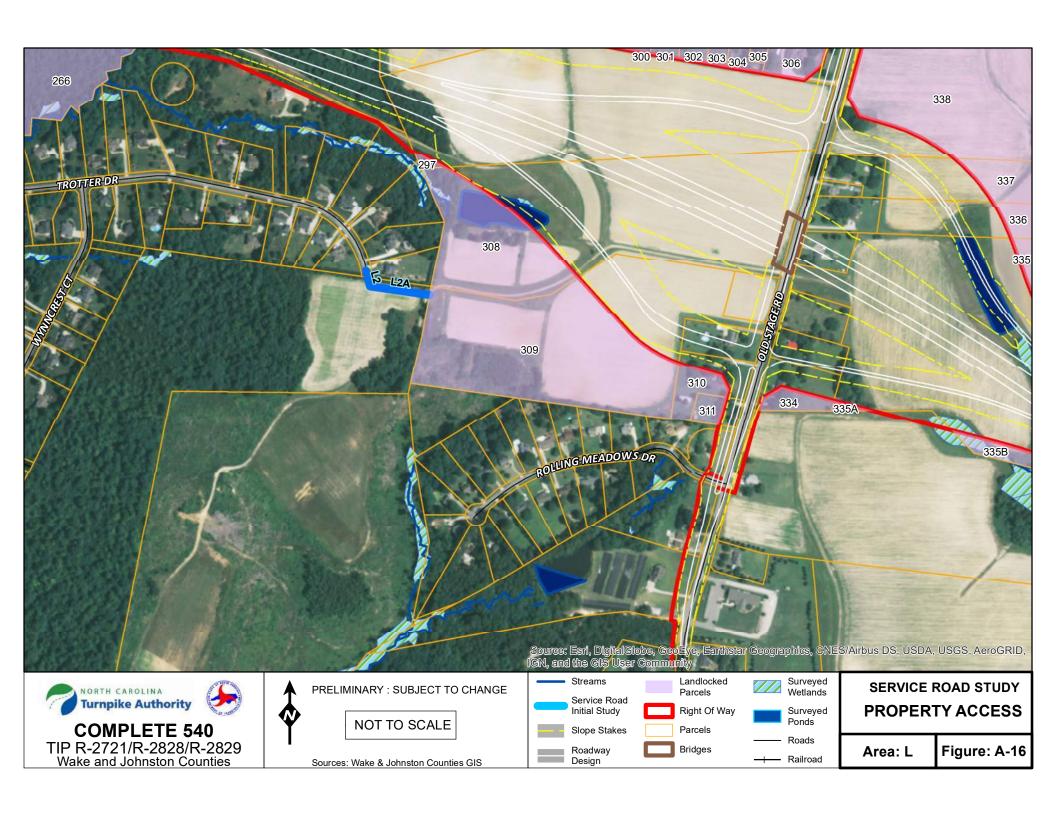


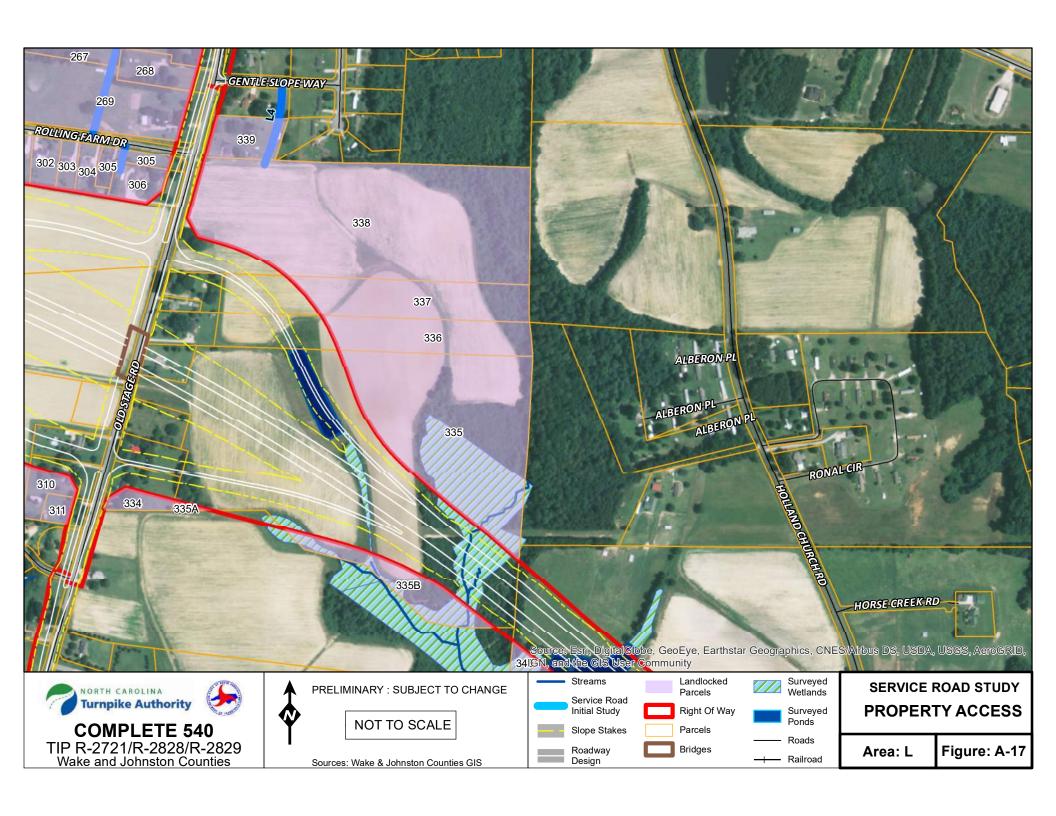


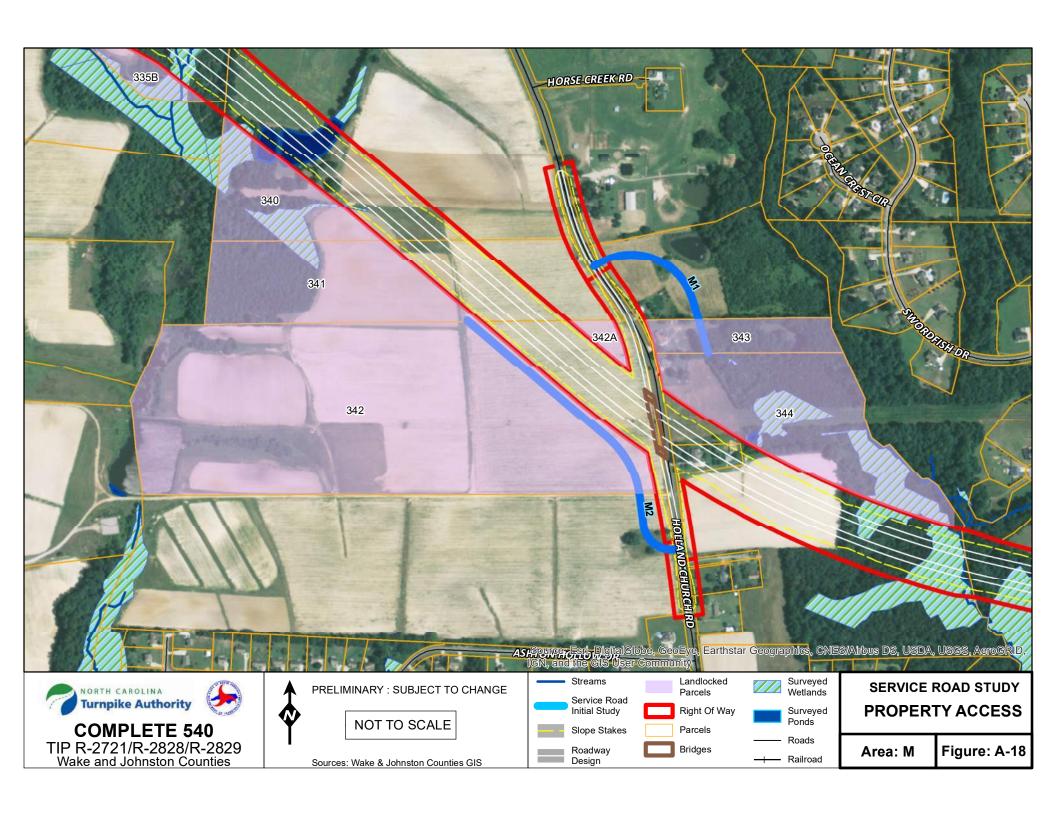


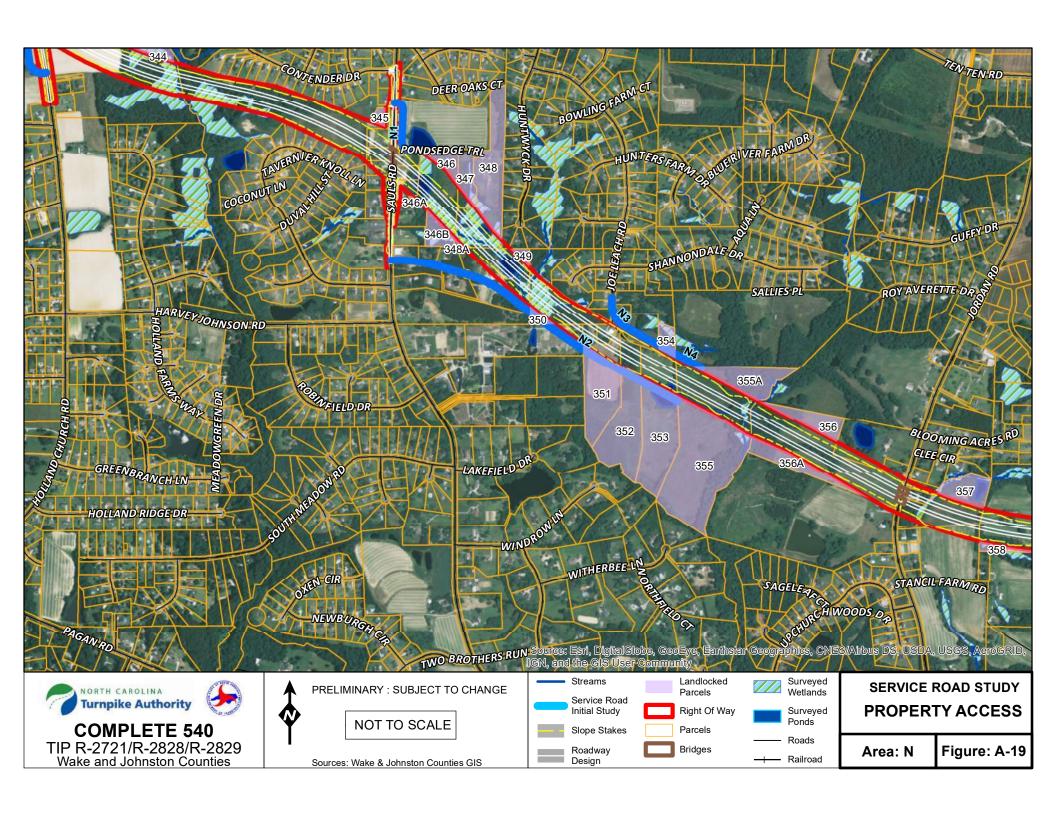


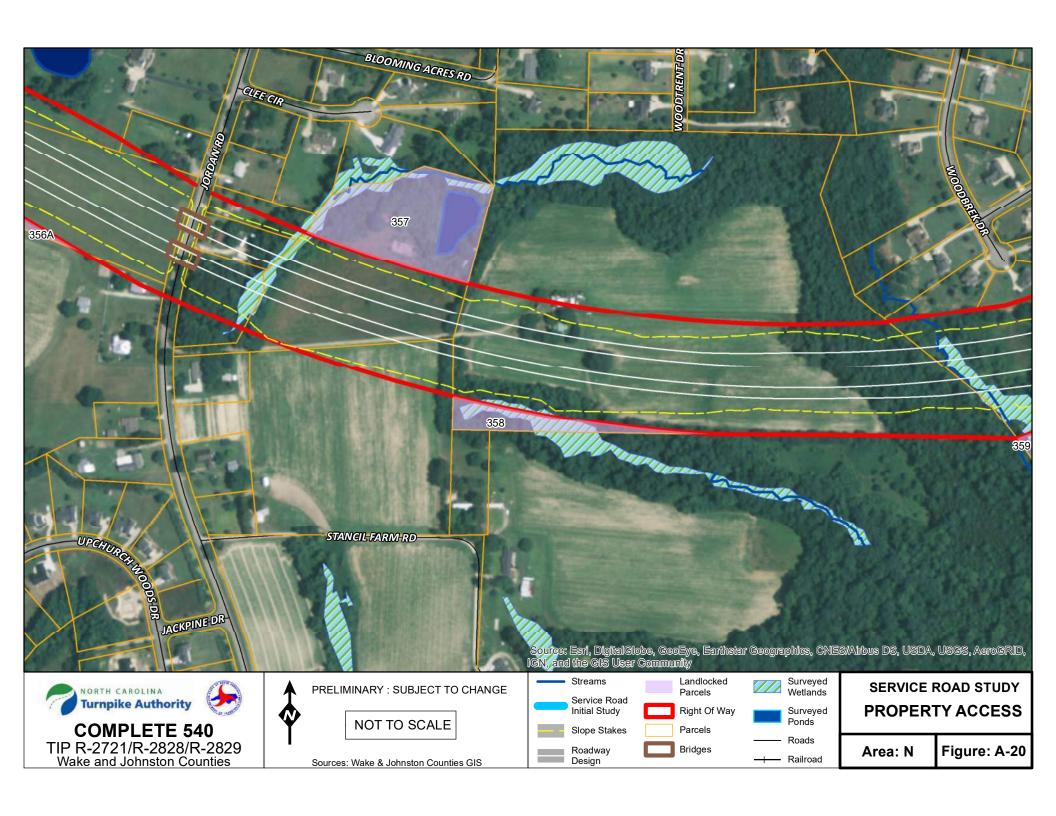


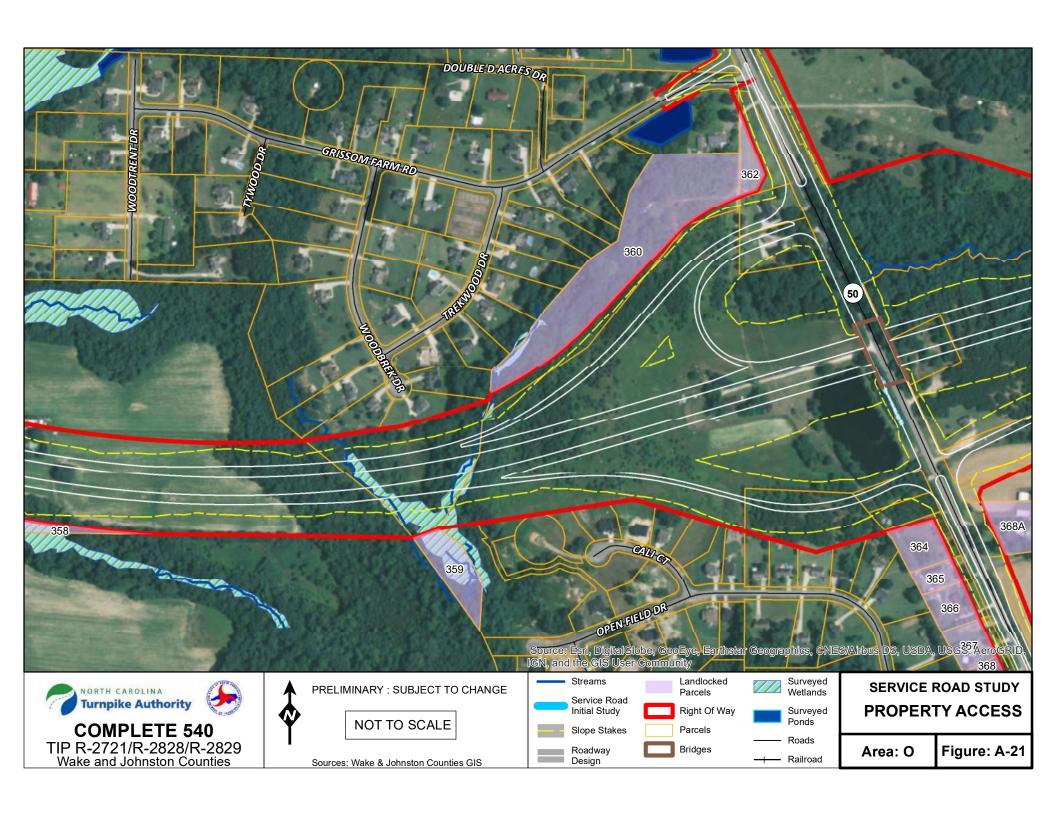


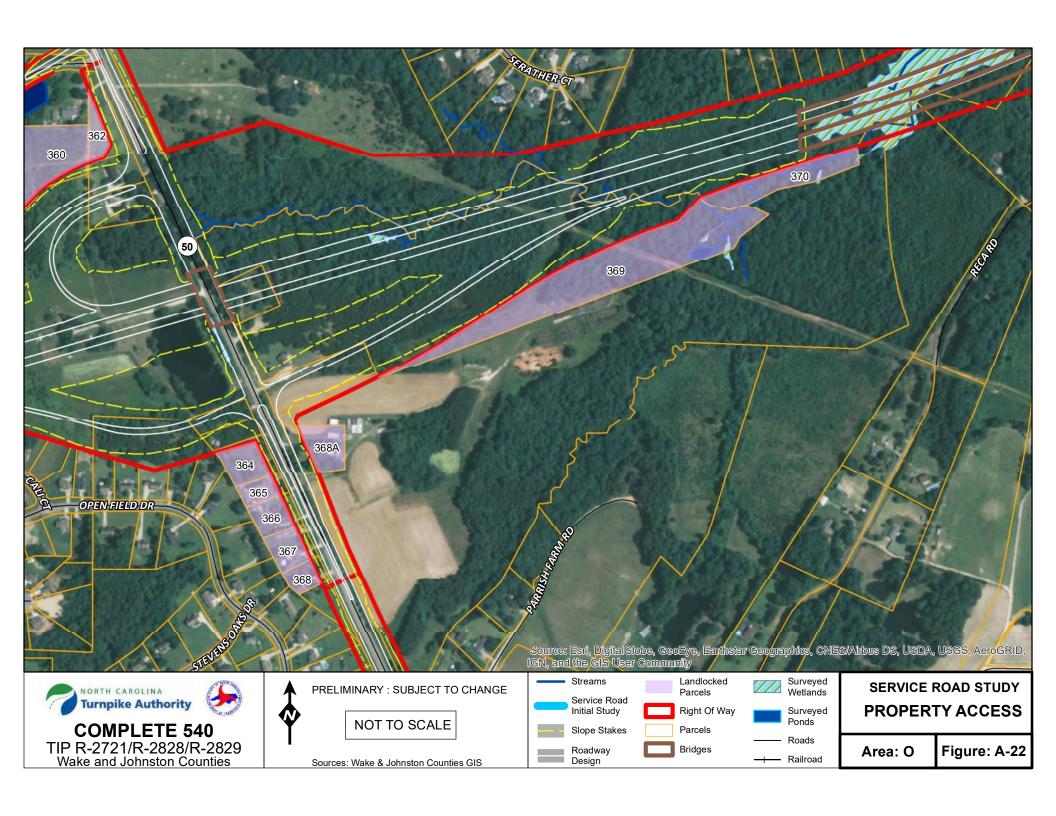


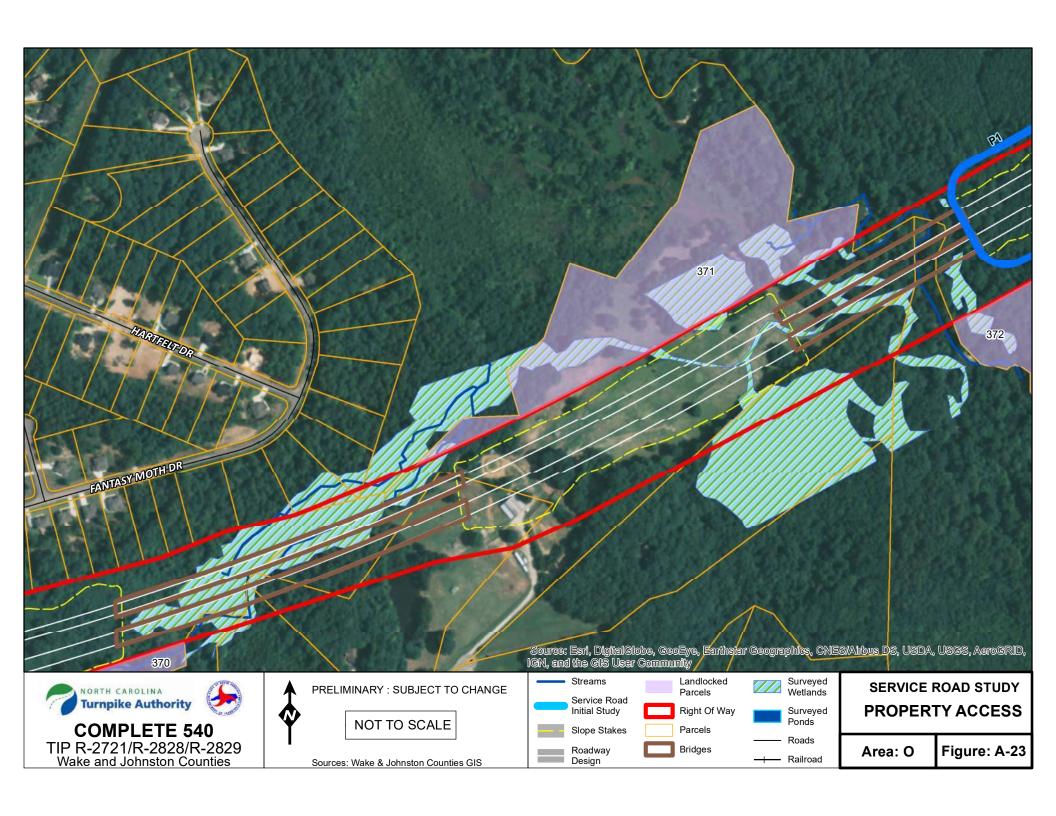


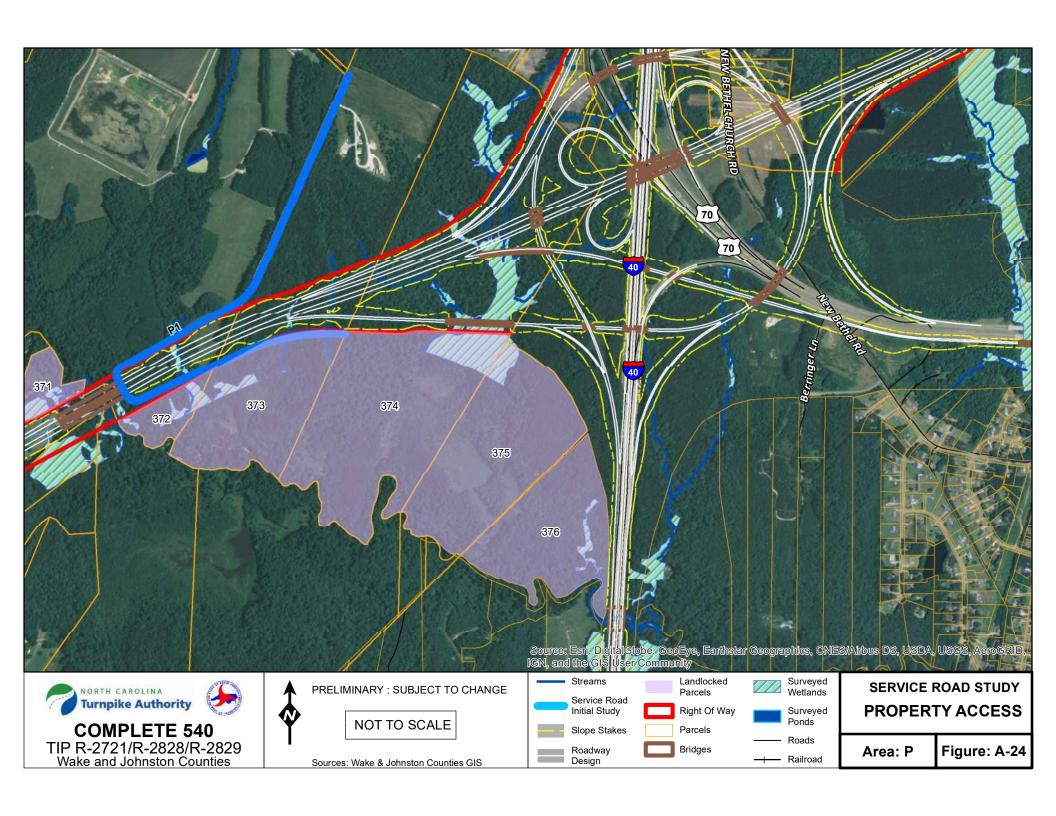


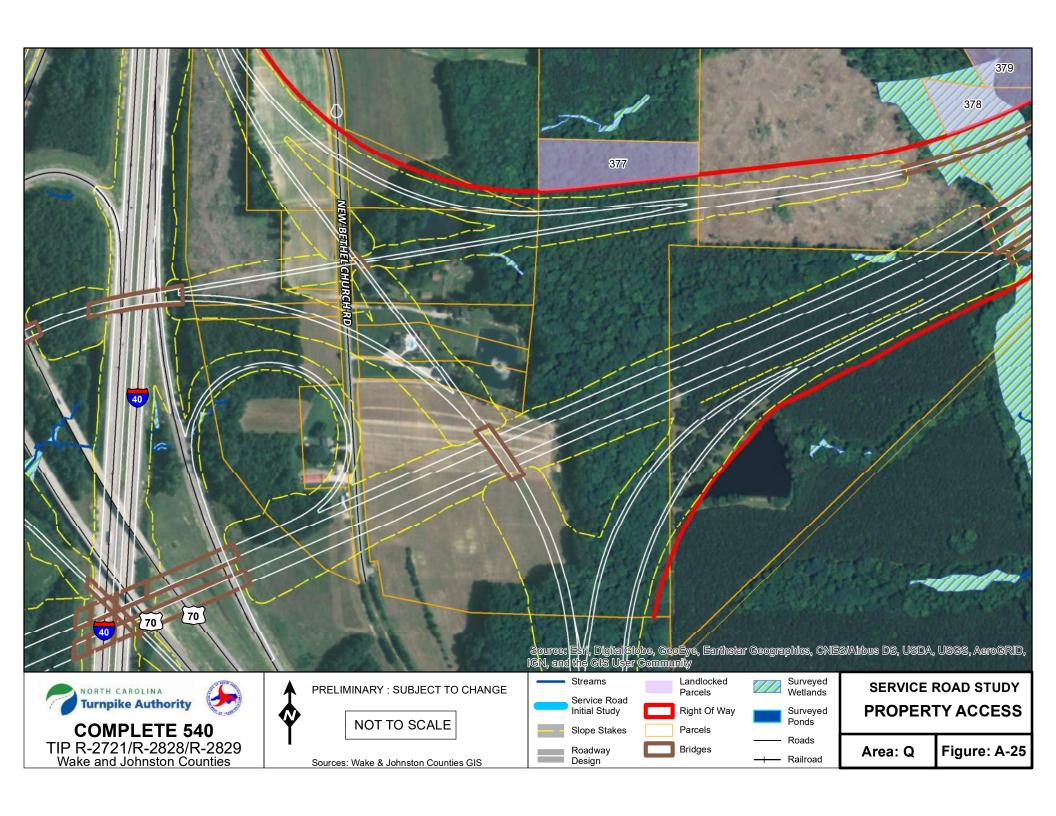


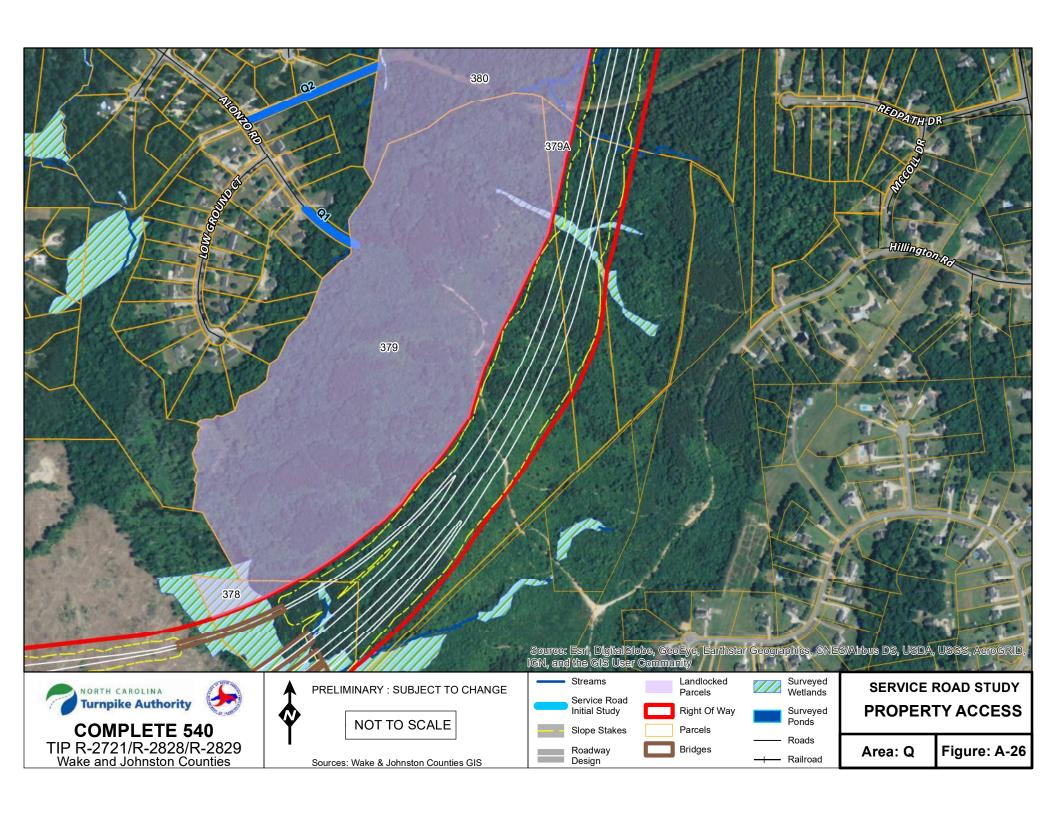


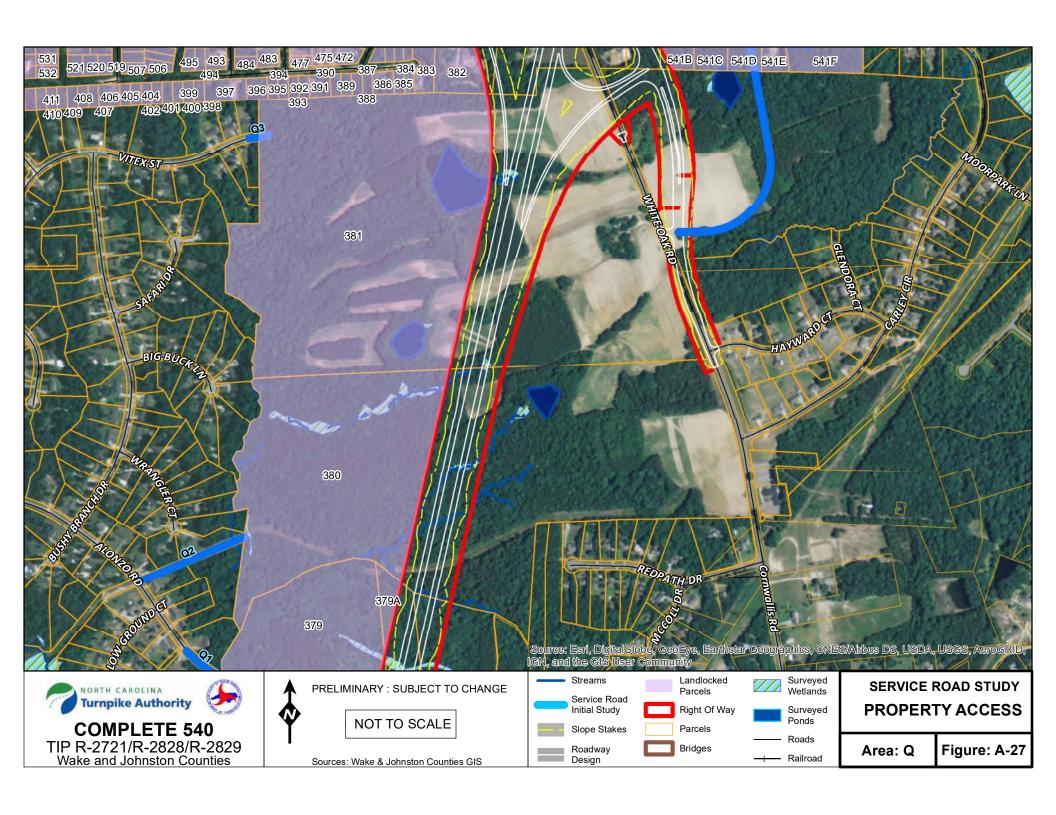


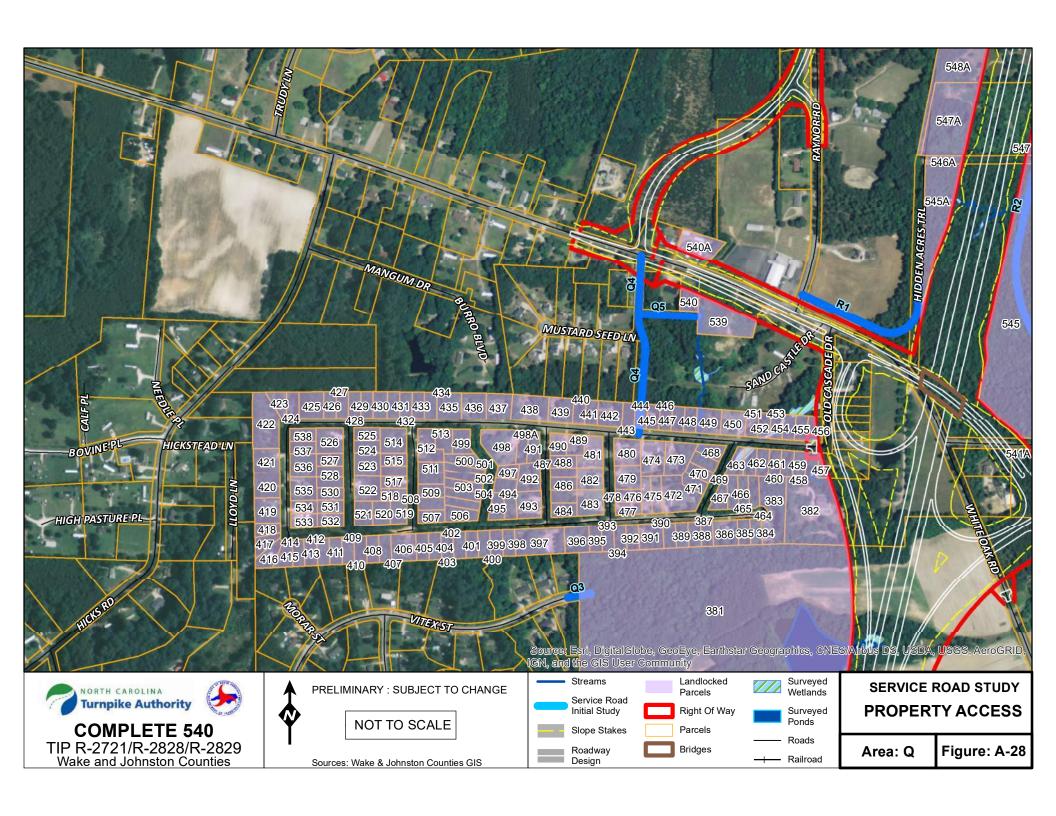


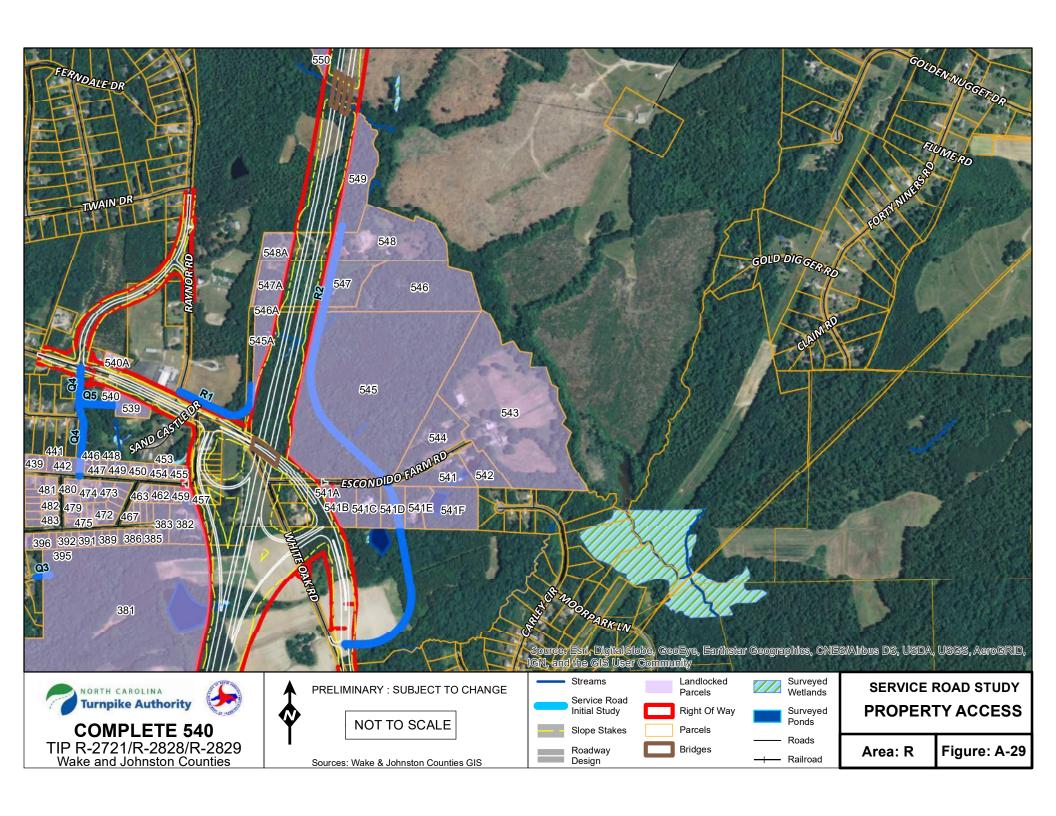


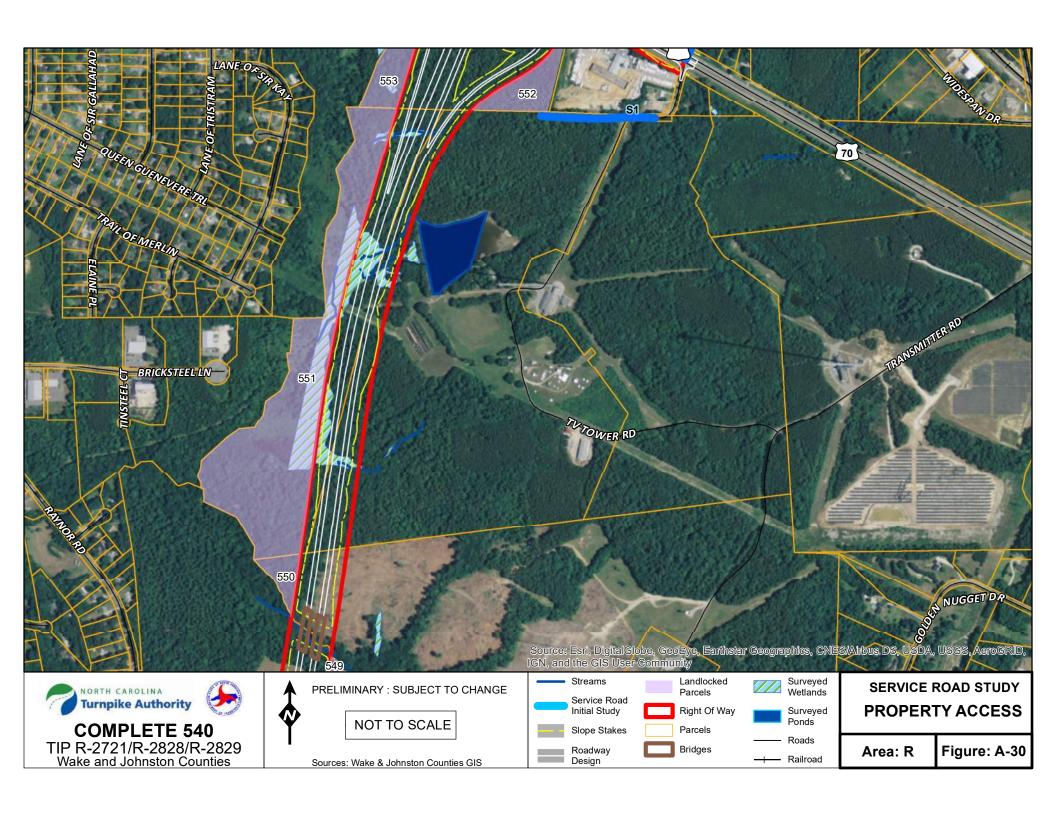


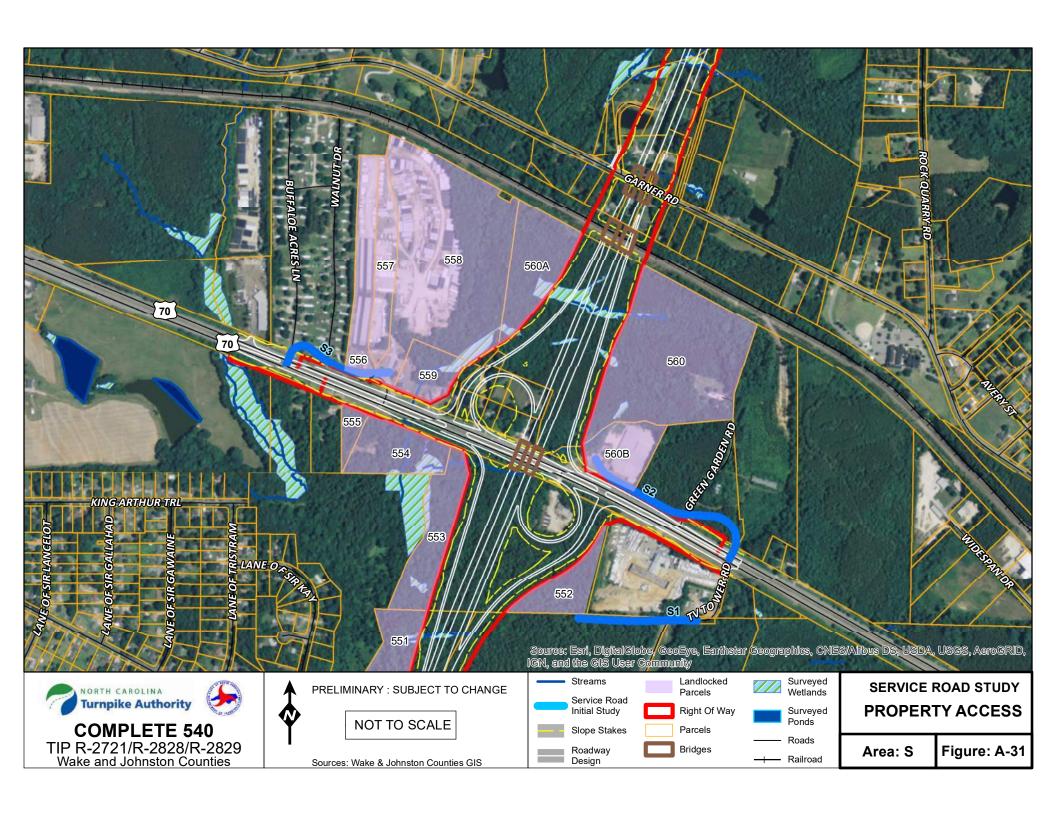


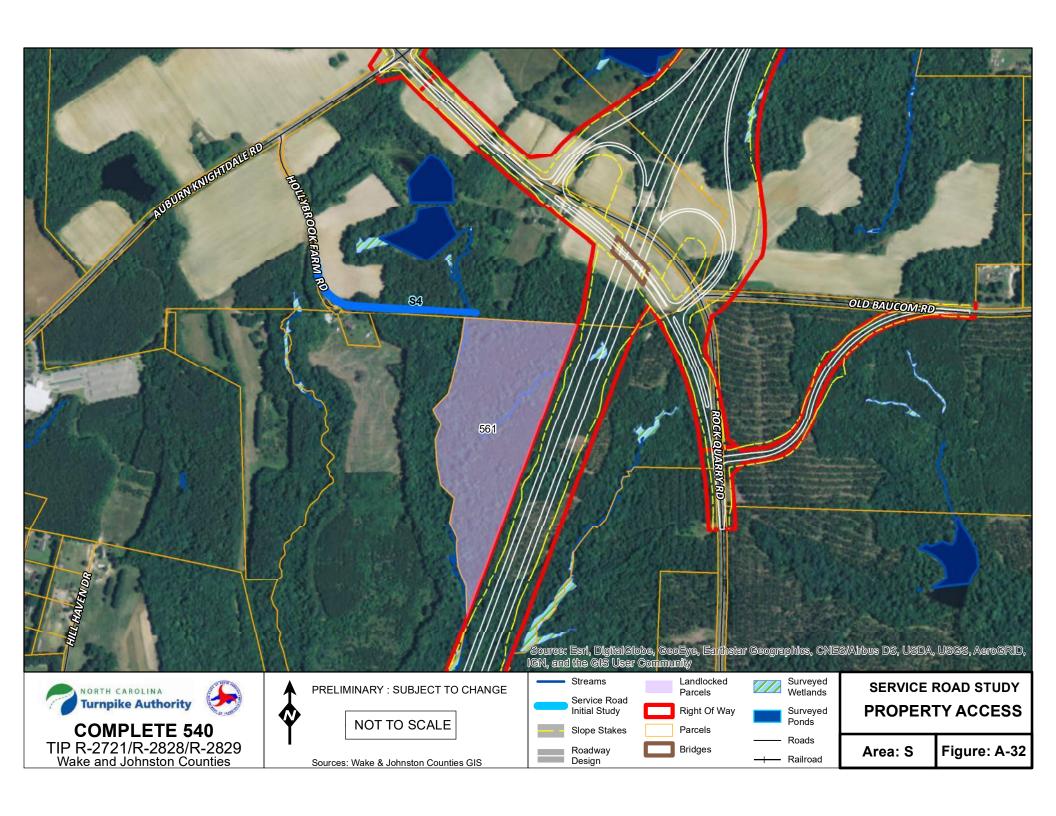


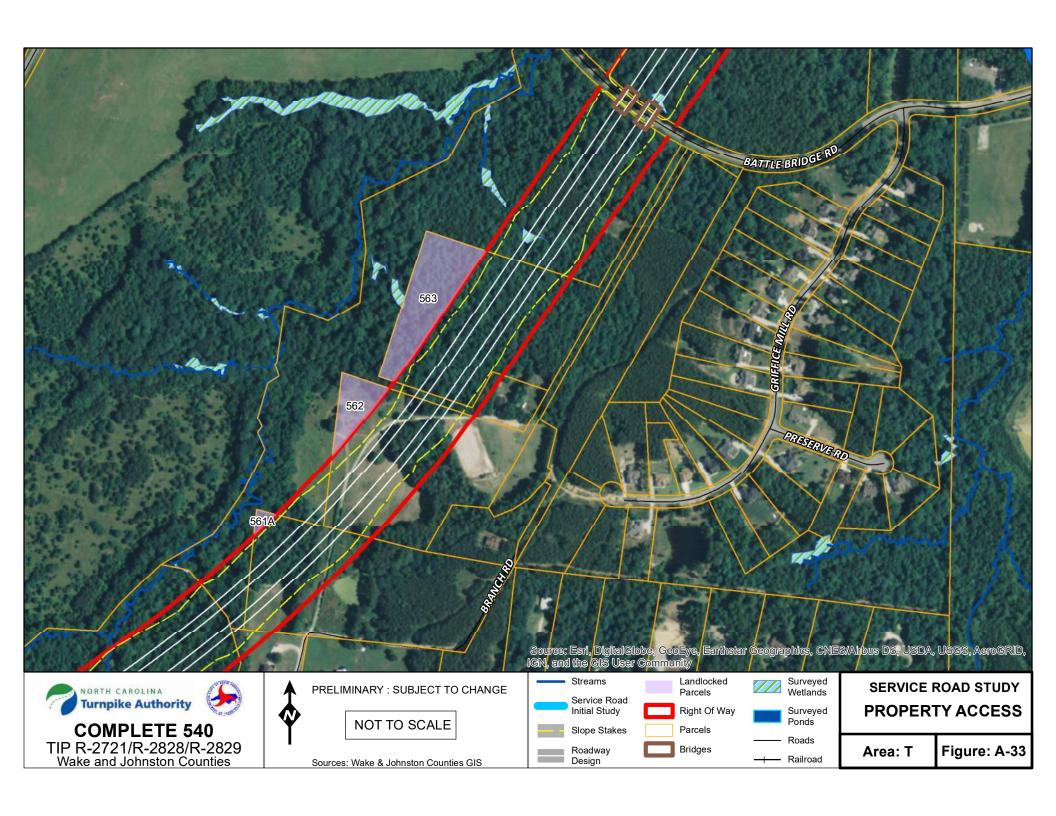


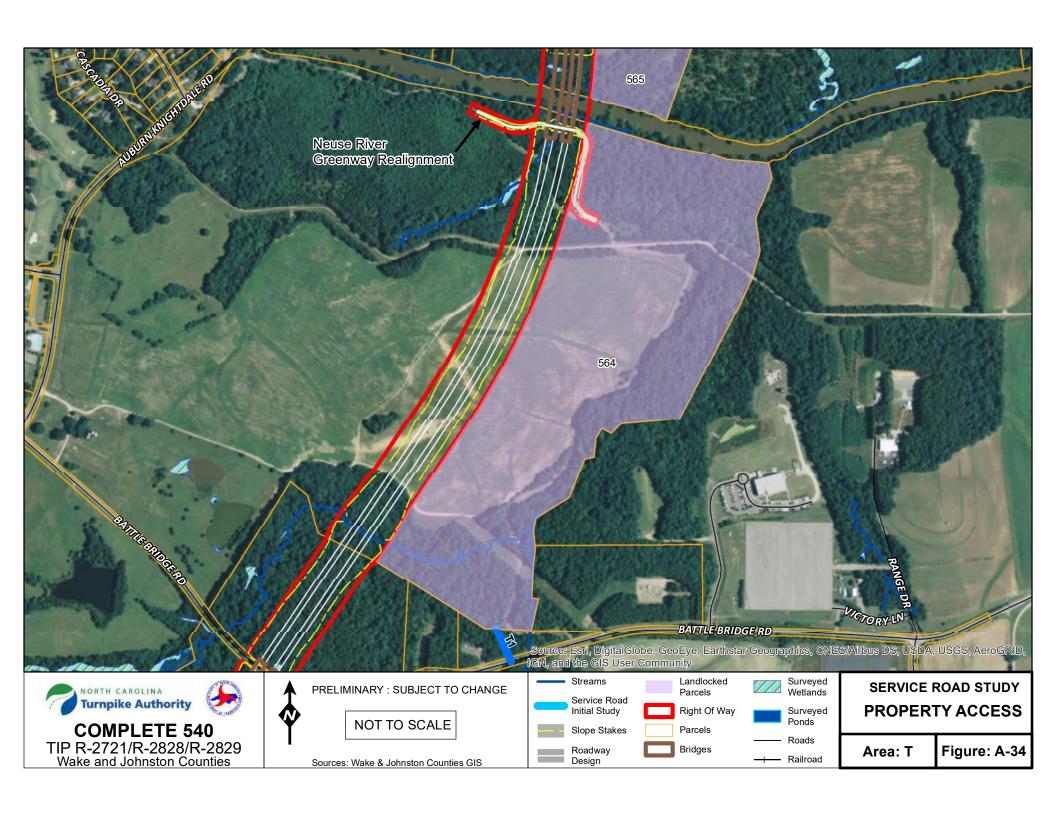


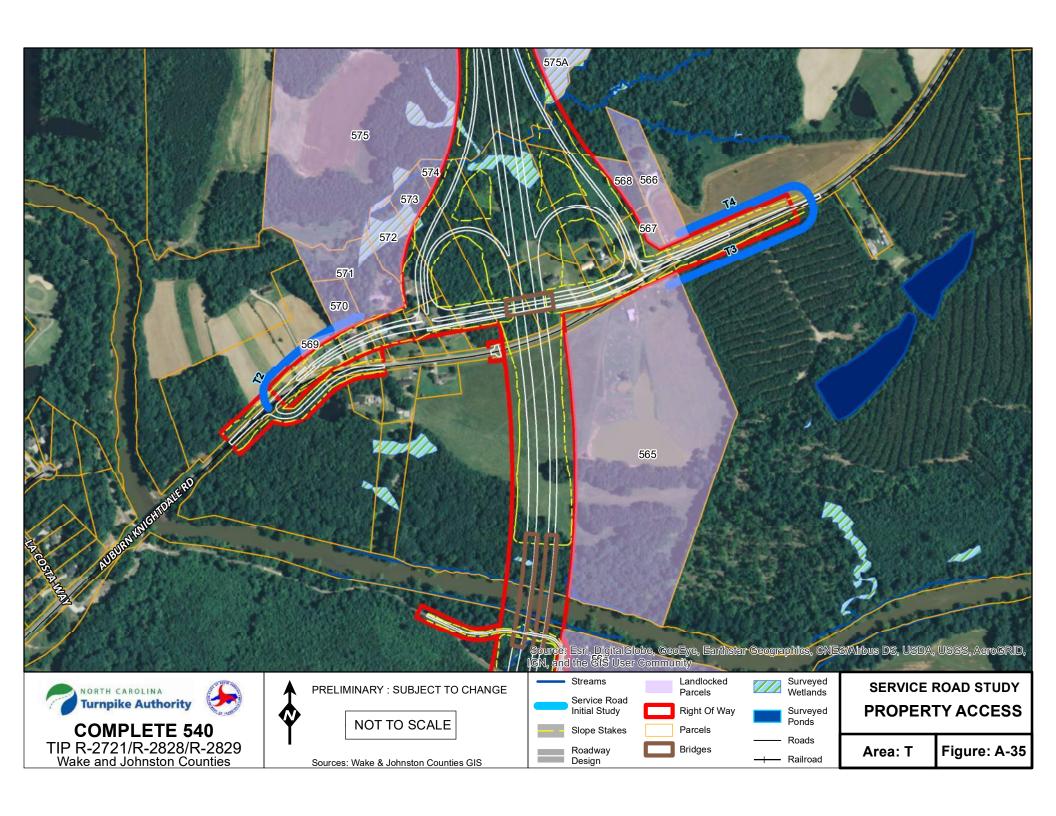


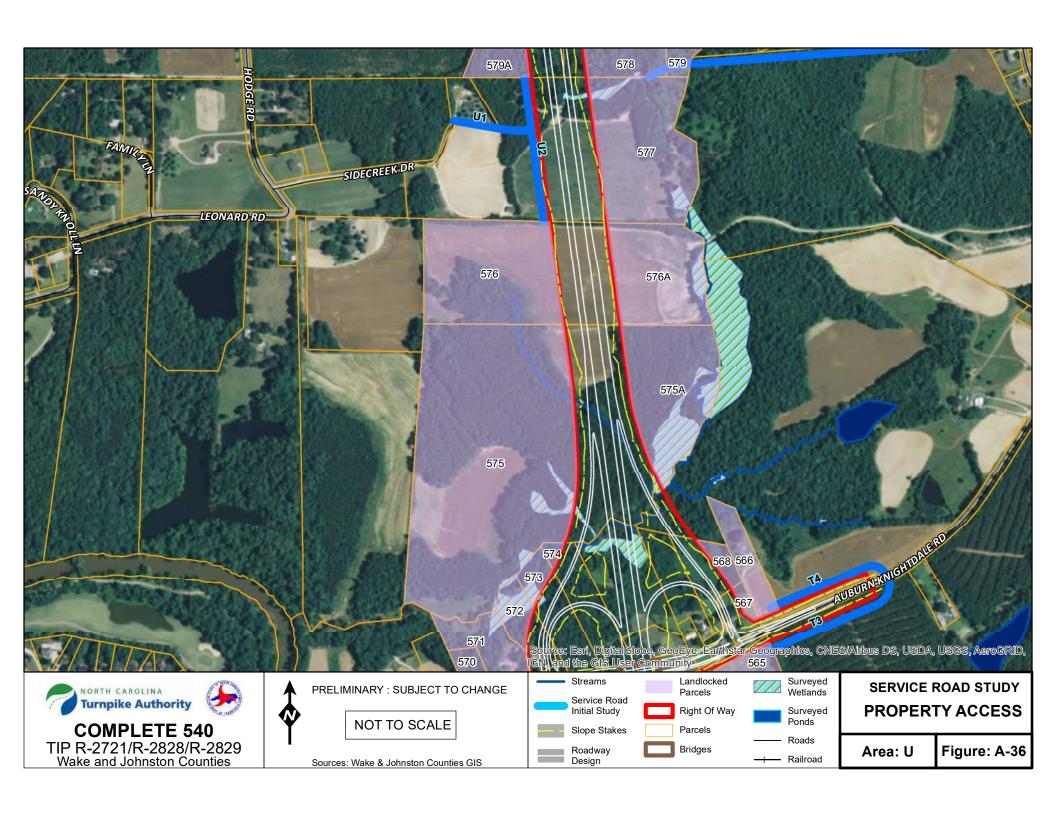


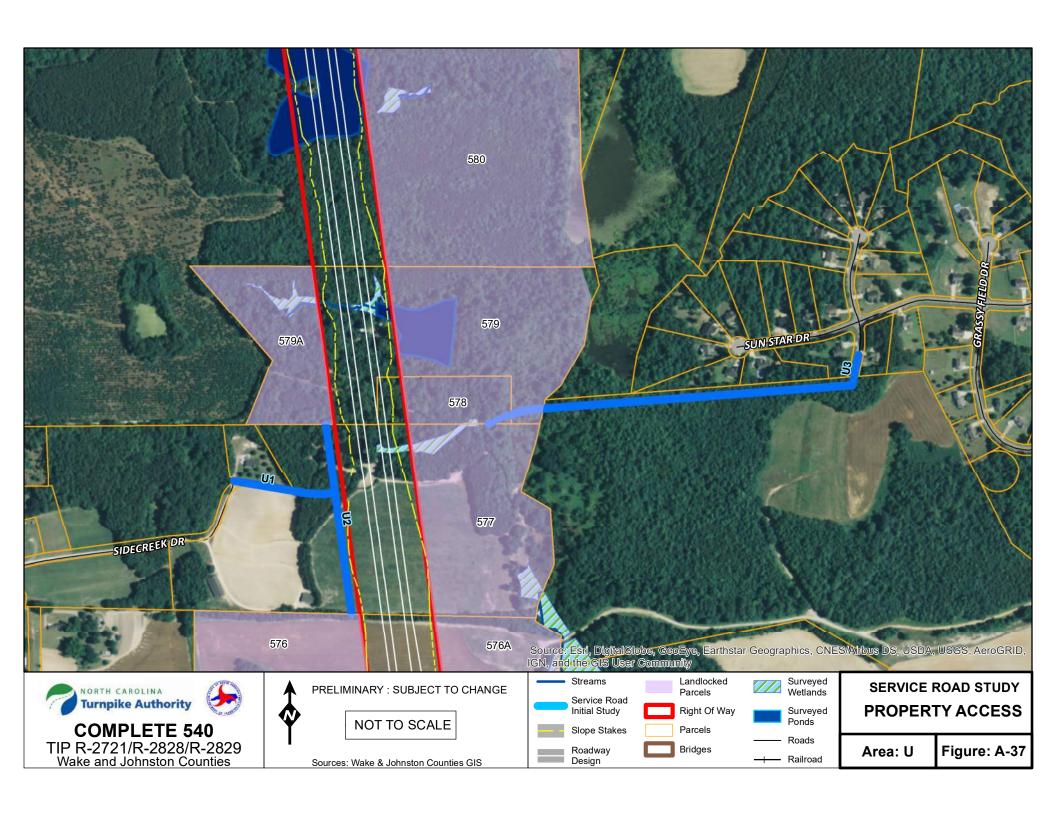


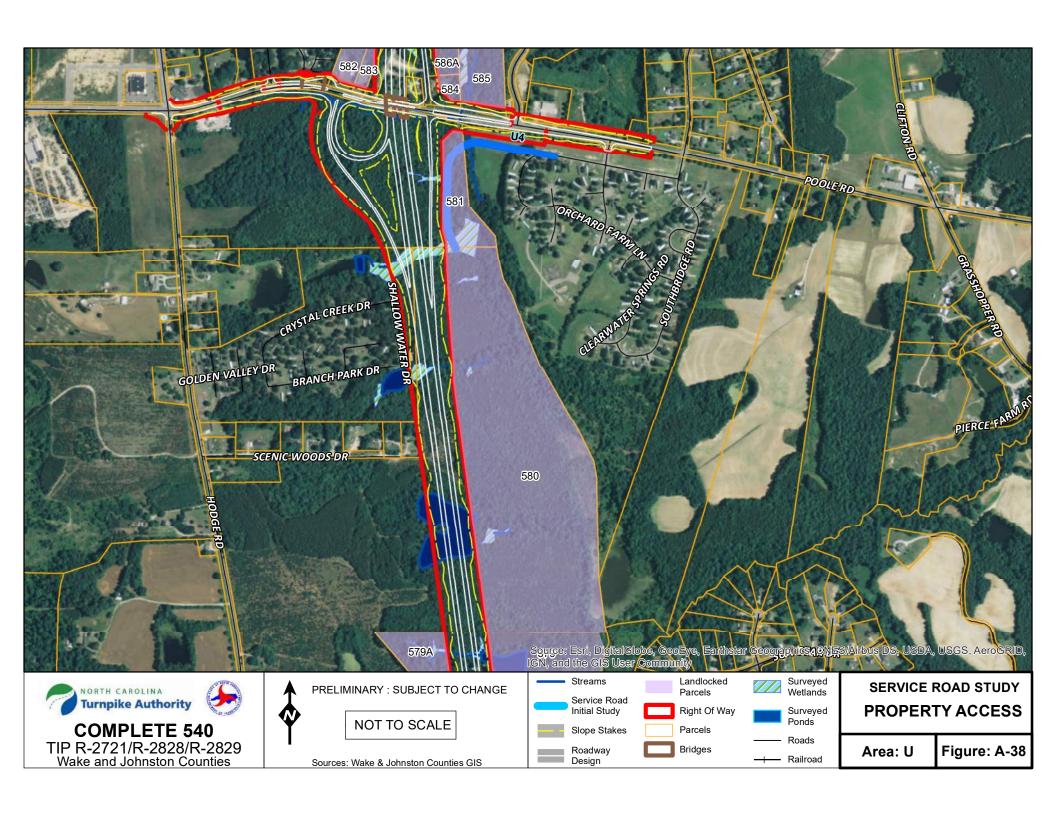


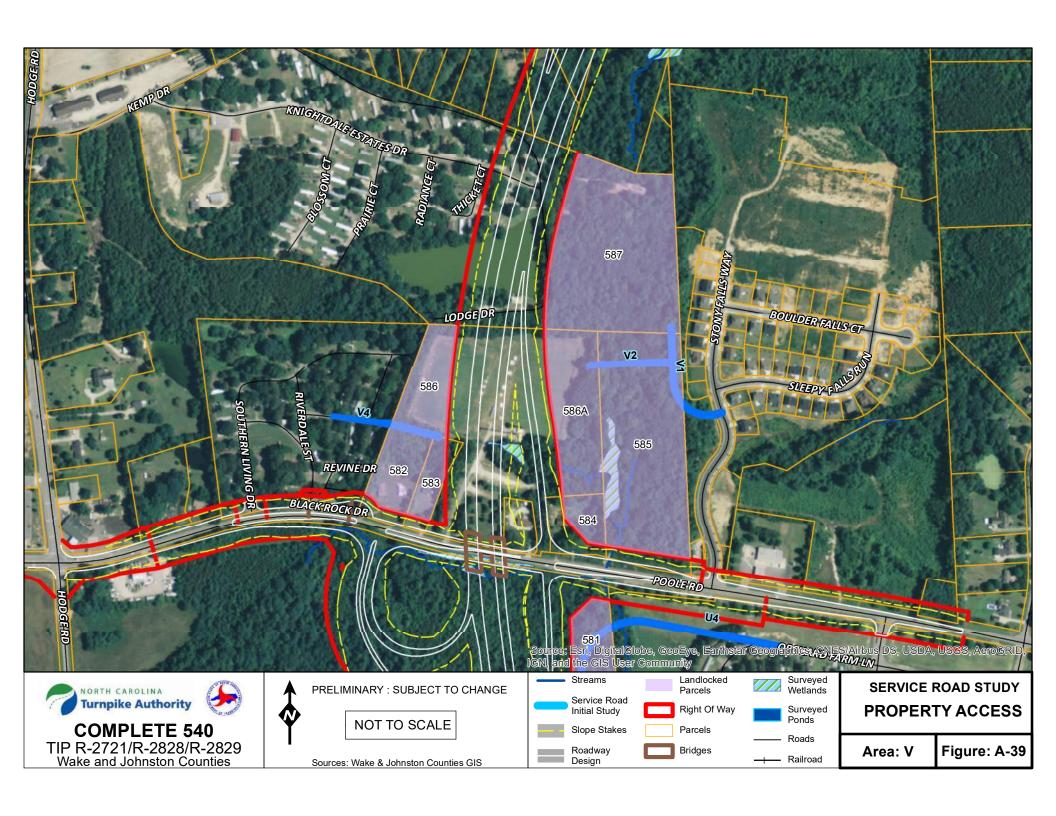


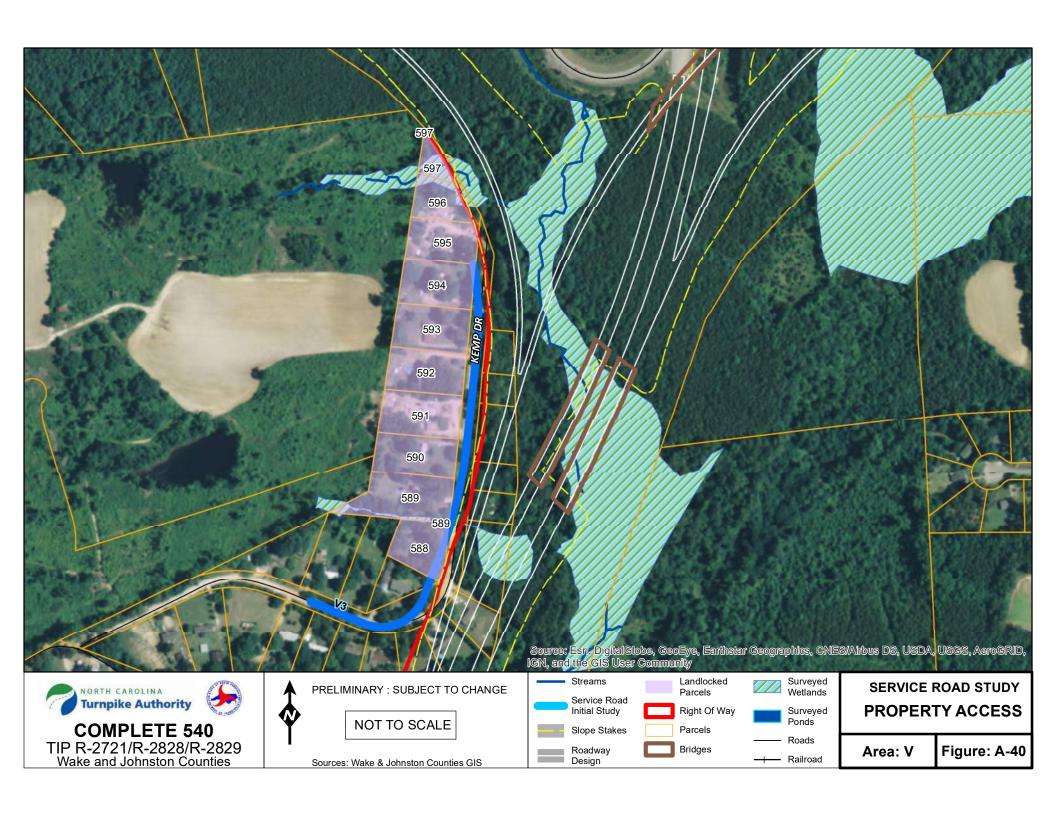






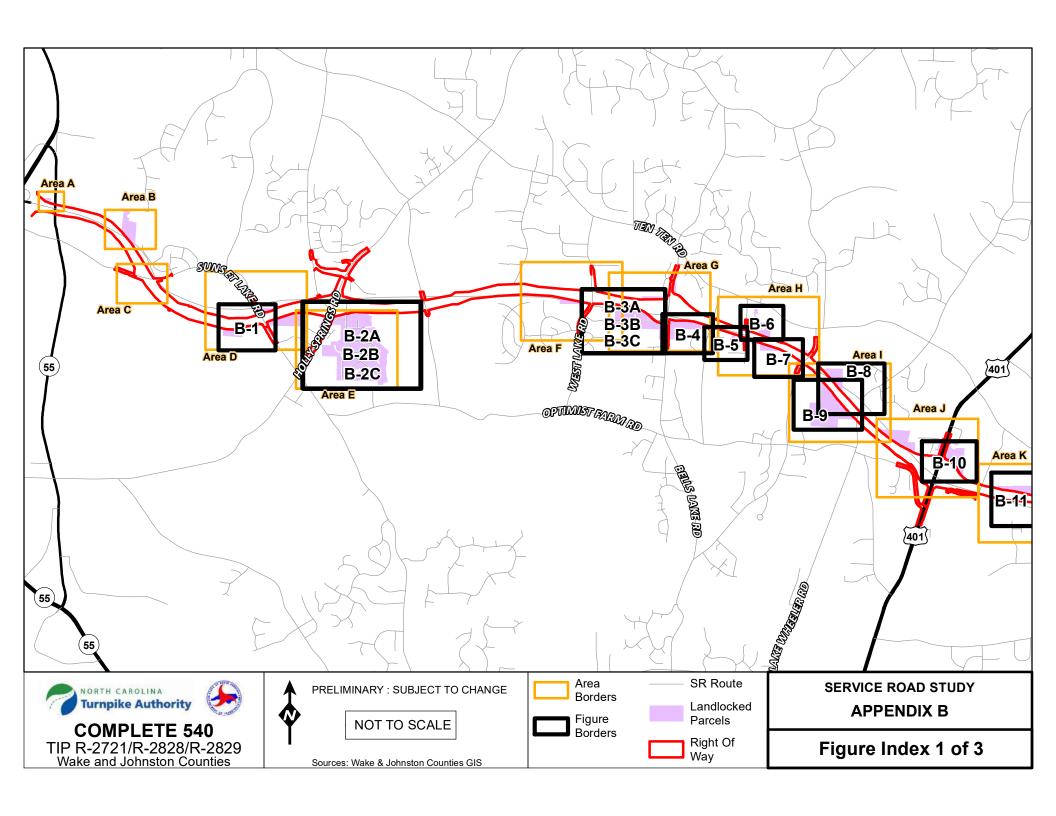


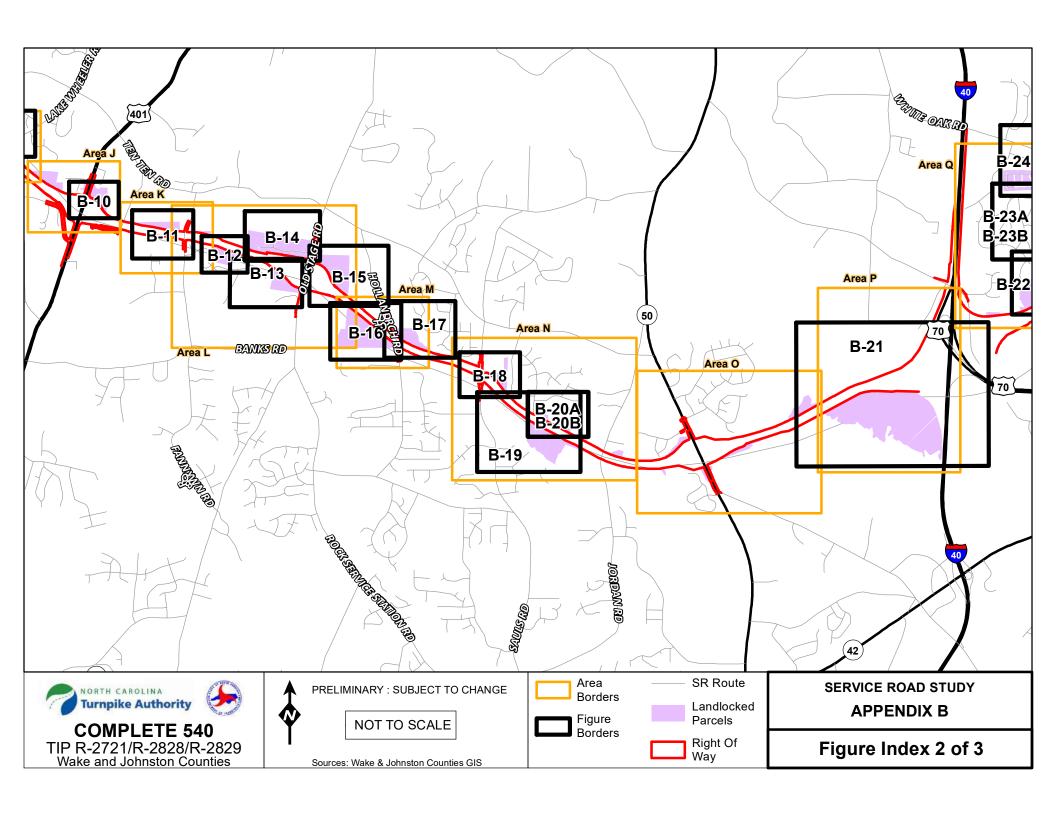


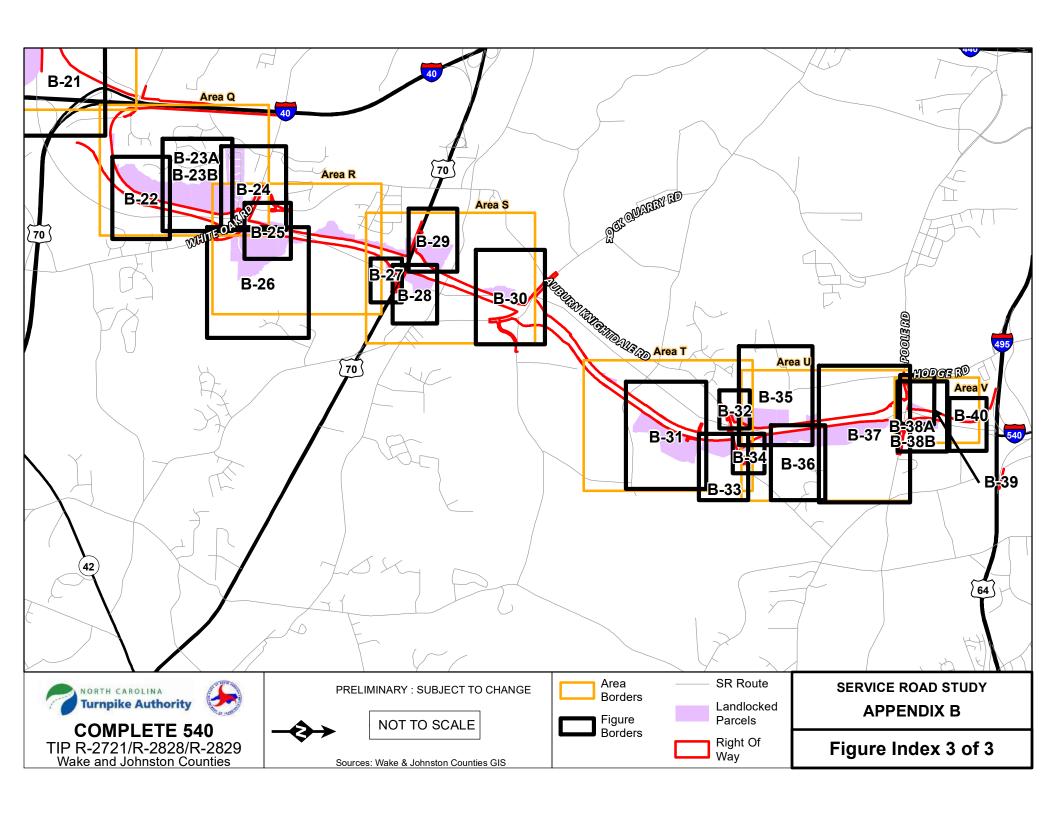


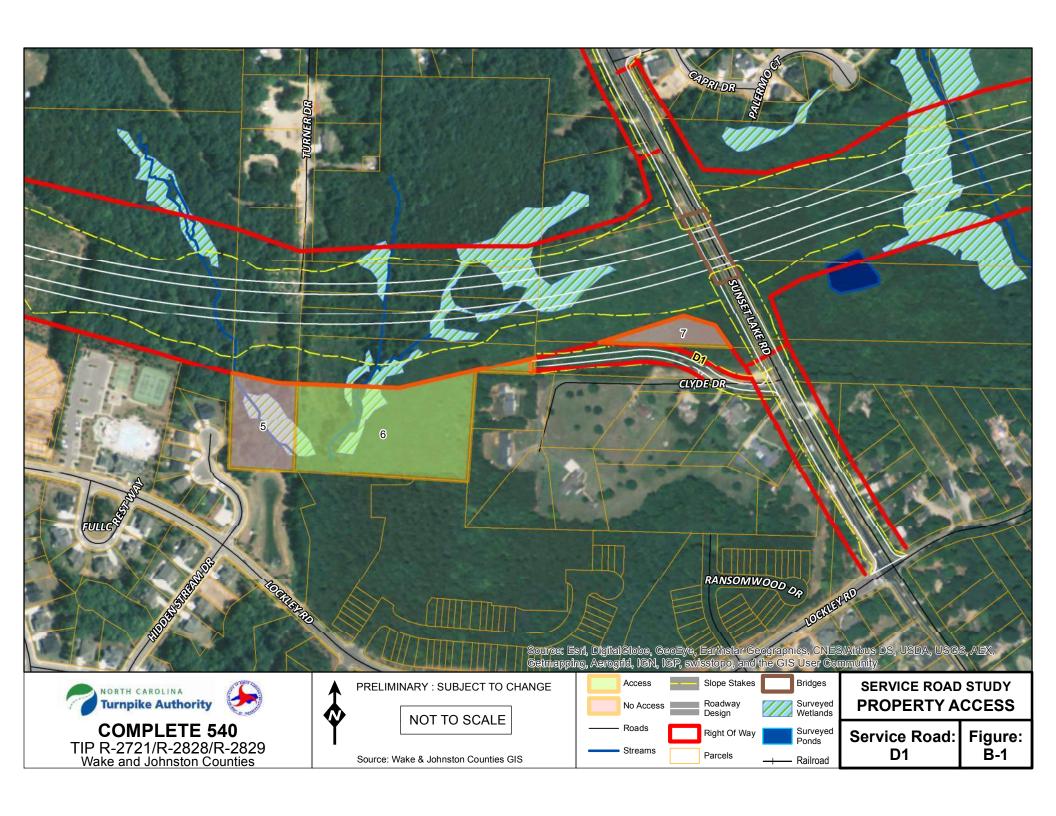
APPENDIX B Service Road Designs

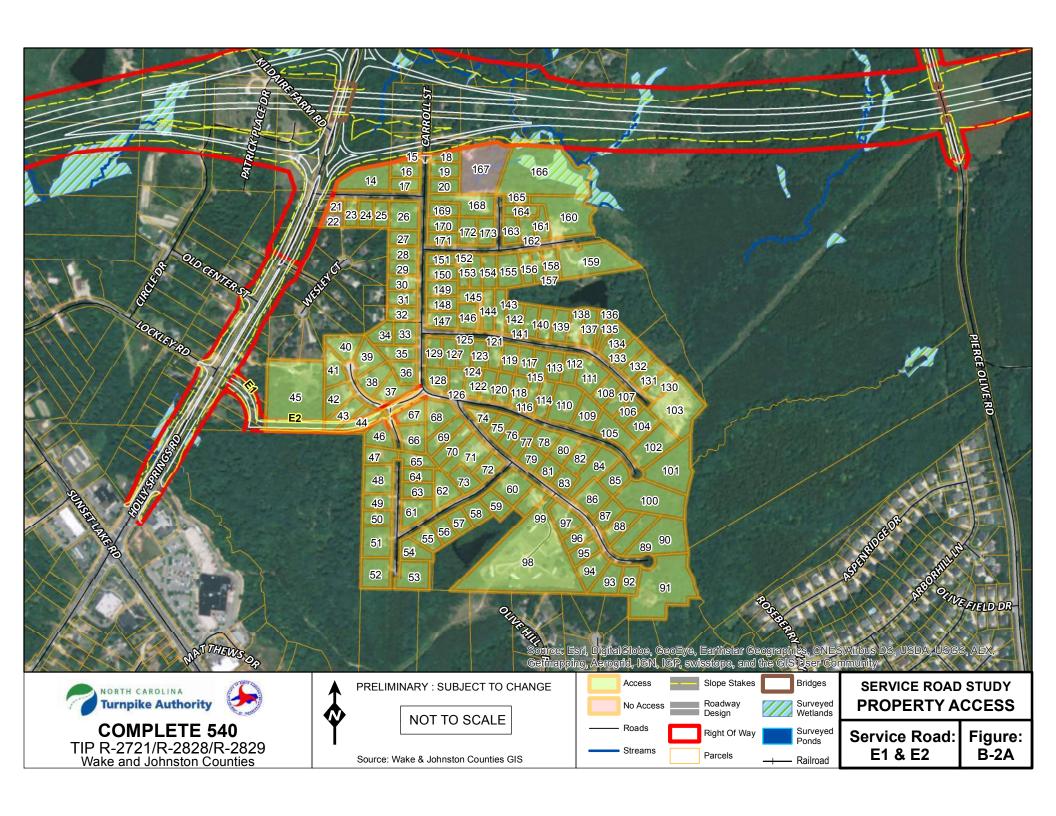
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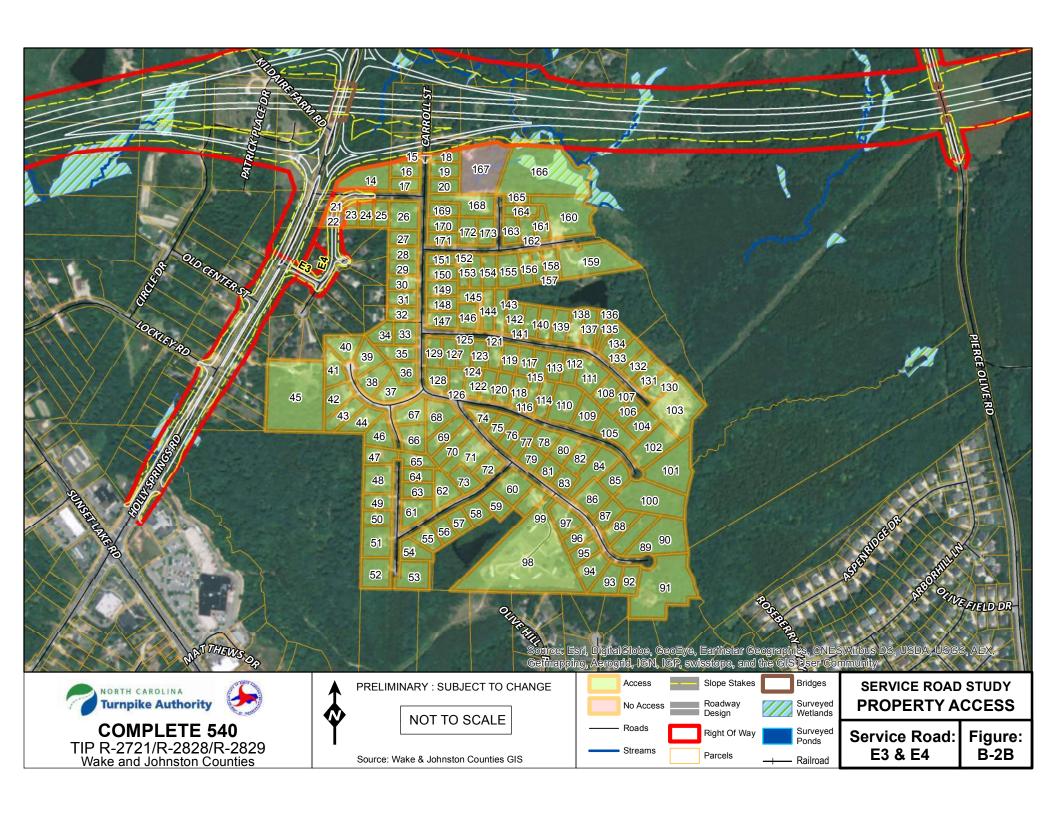


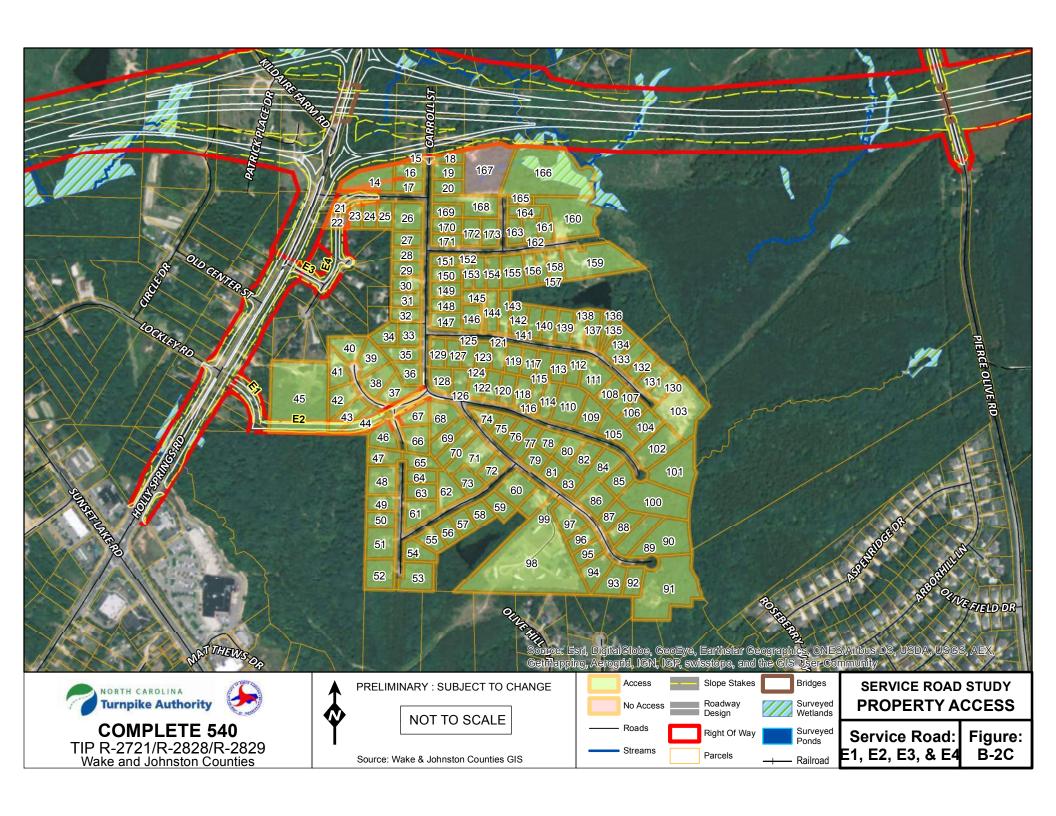


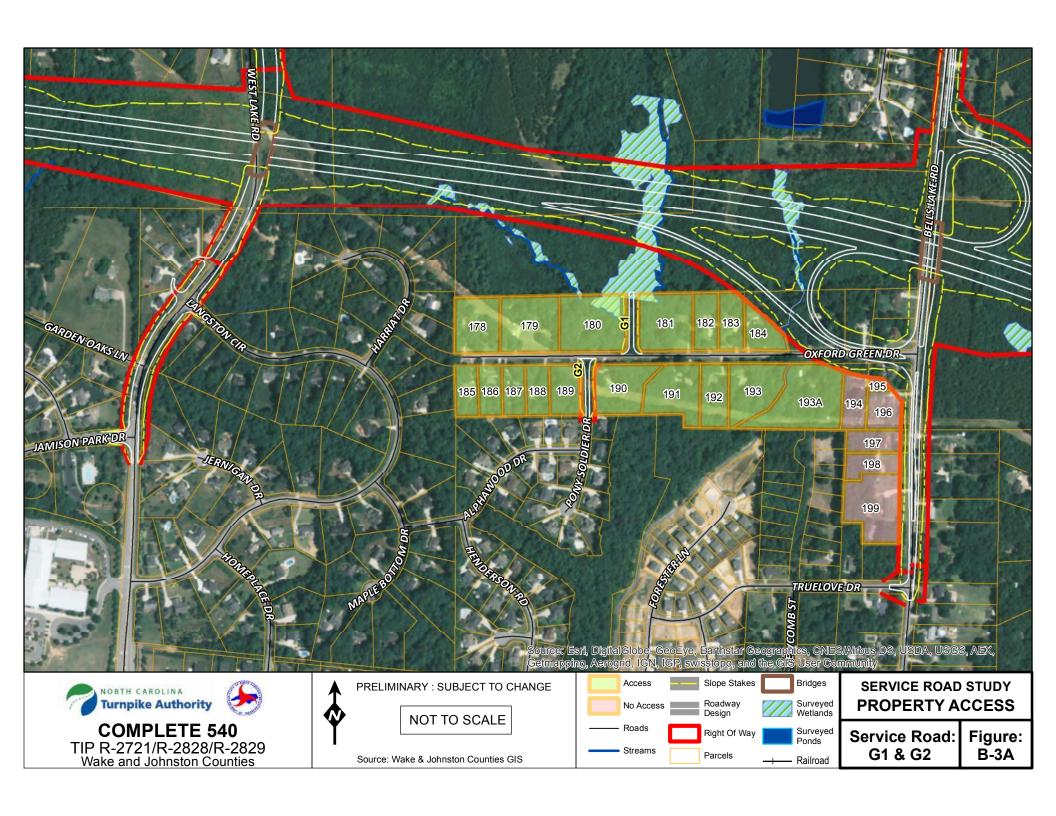


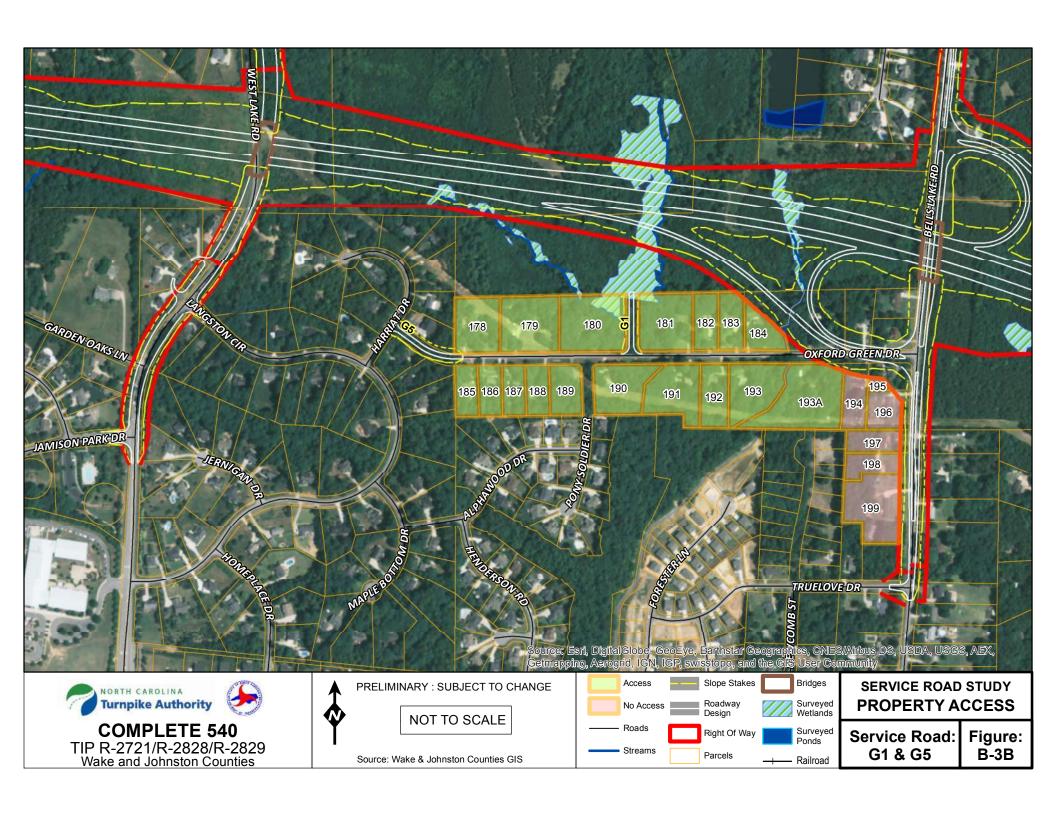


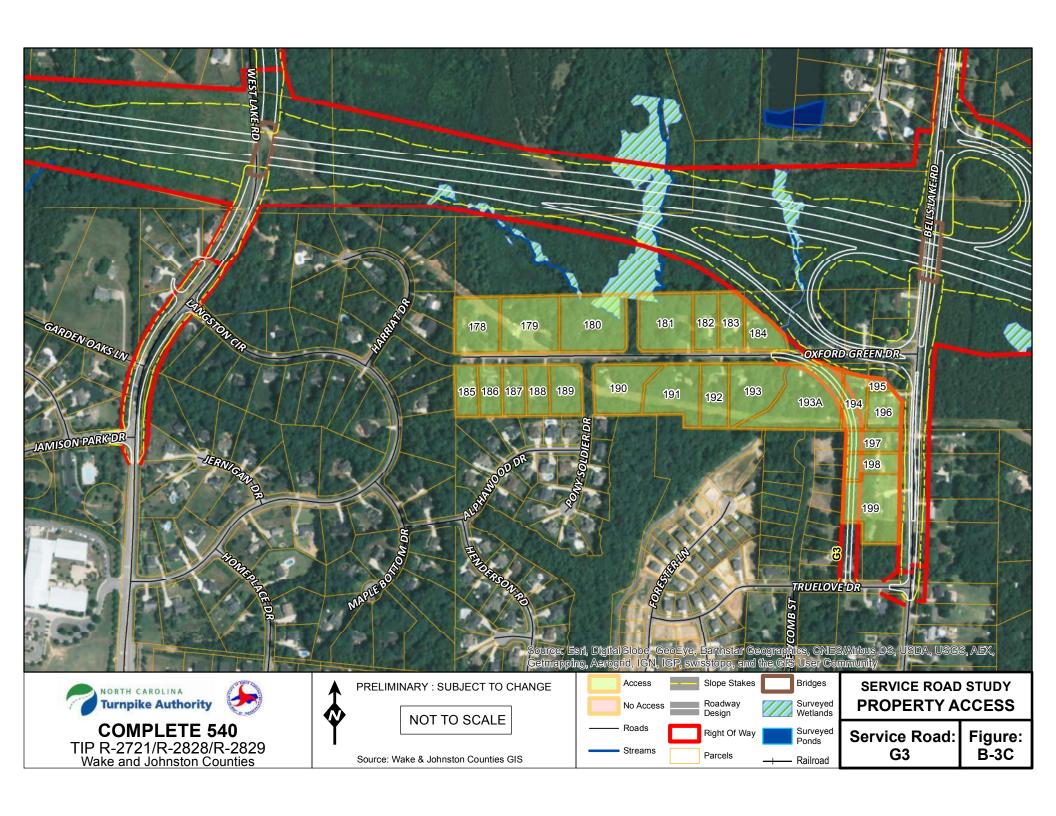


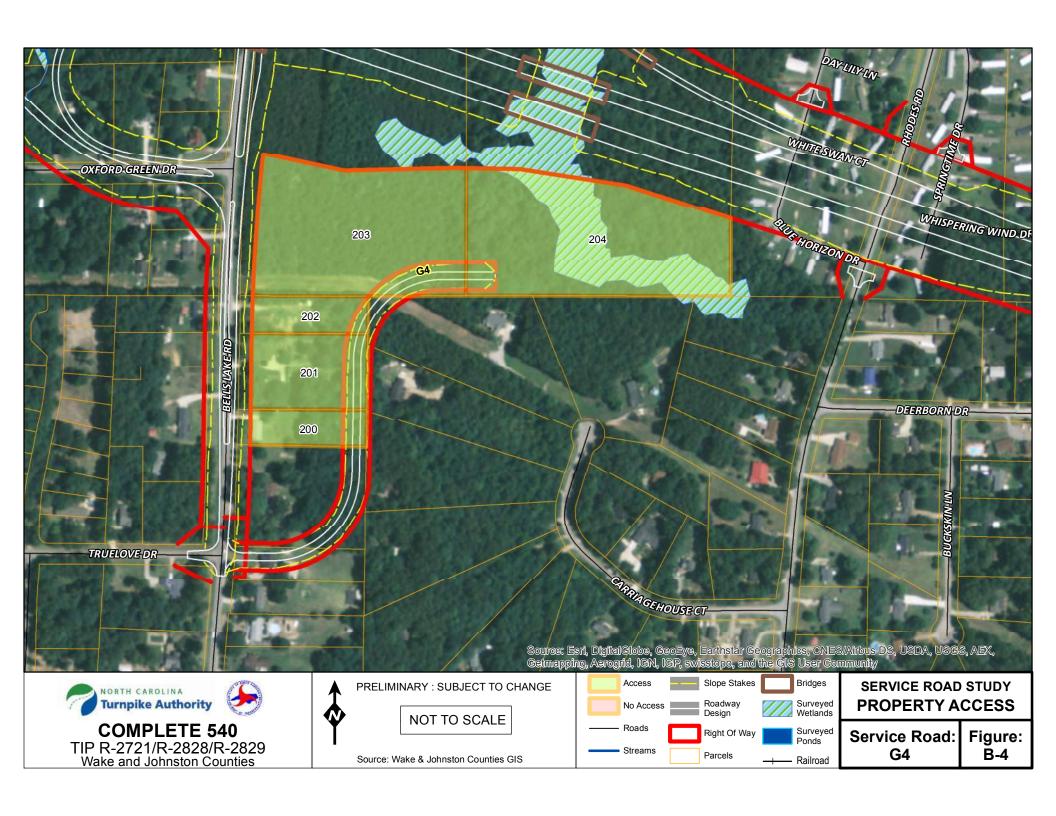


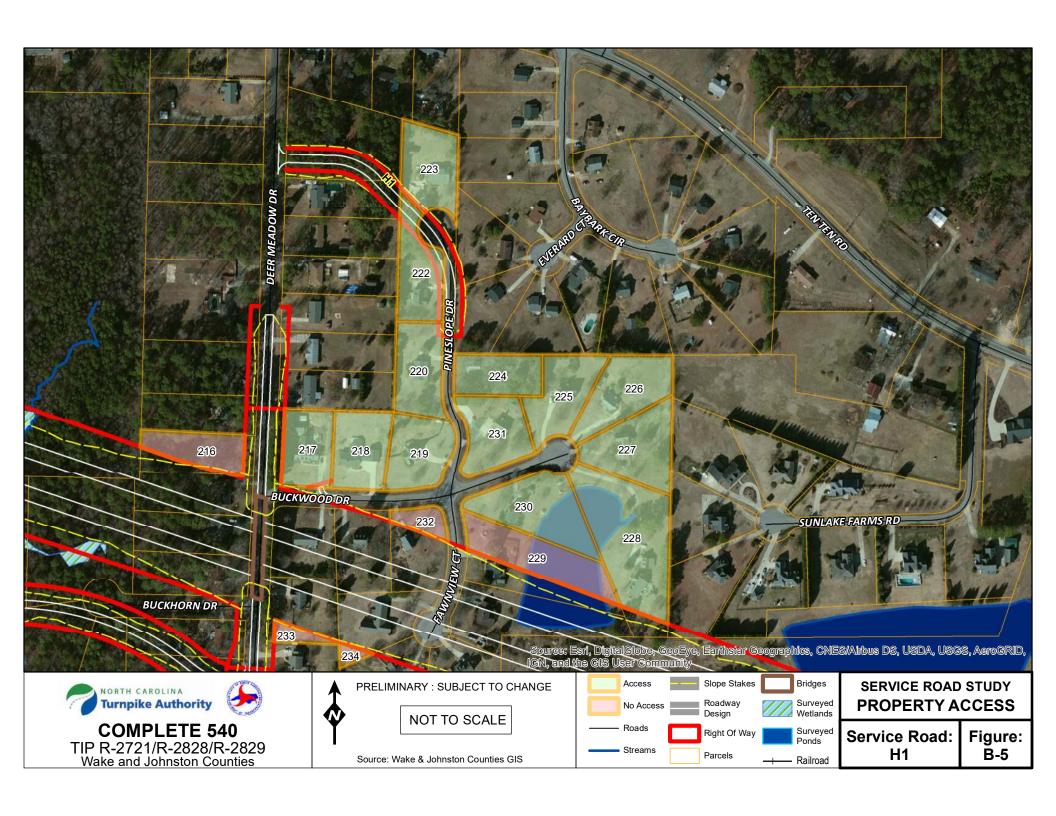


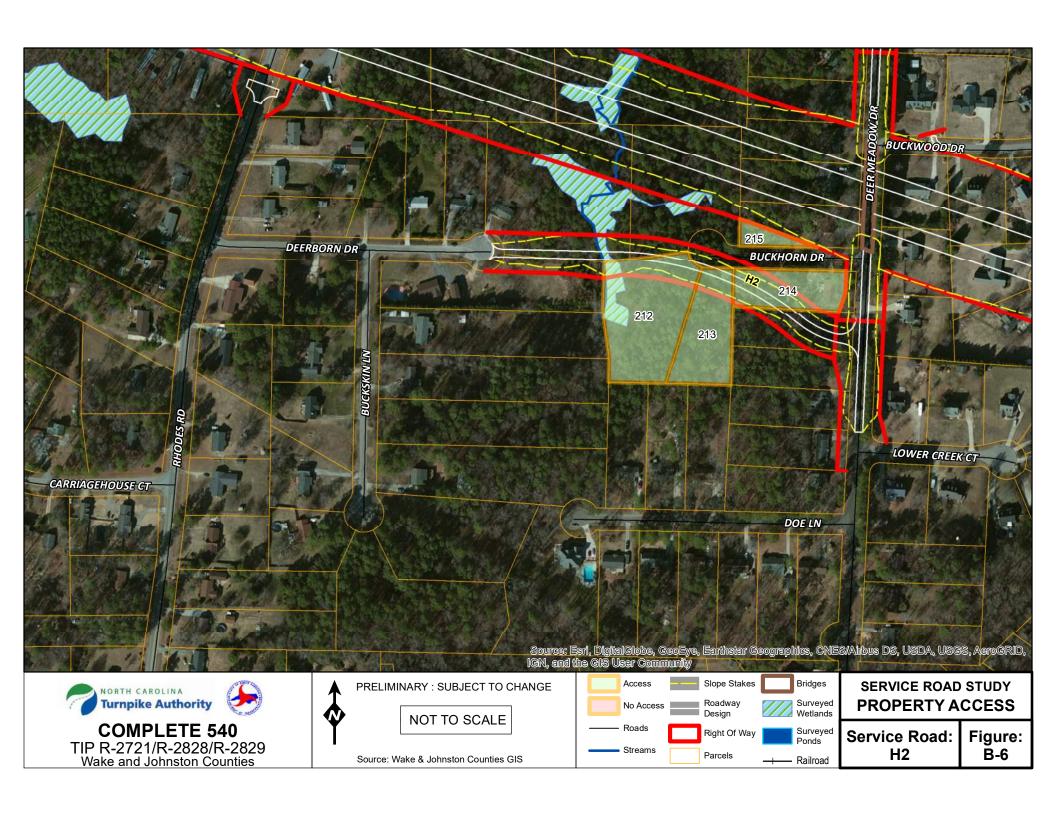


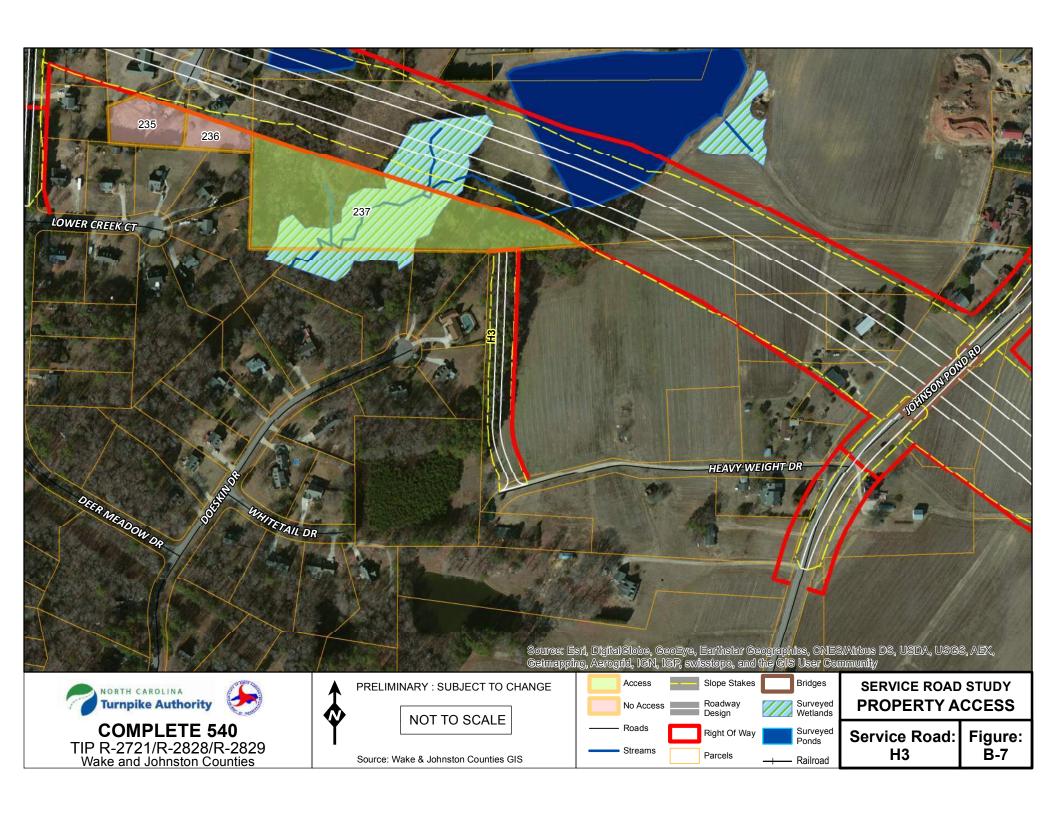


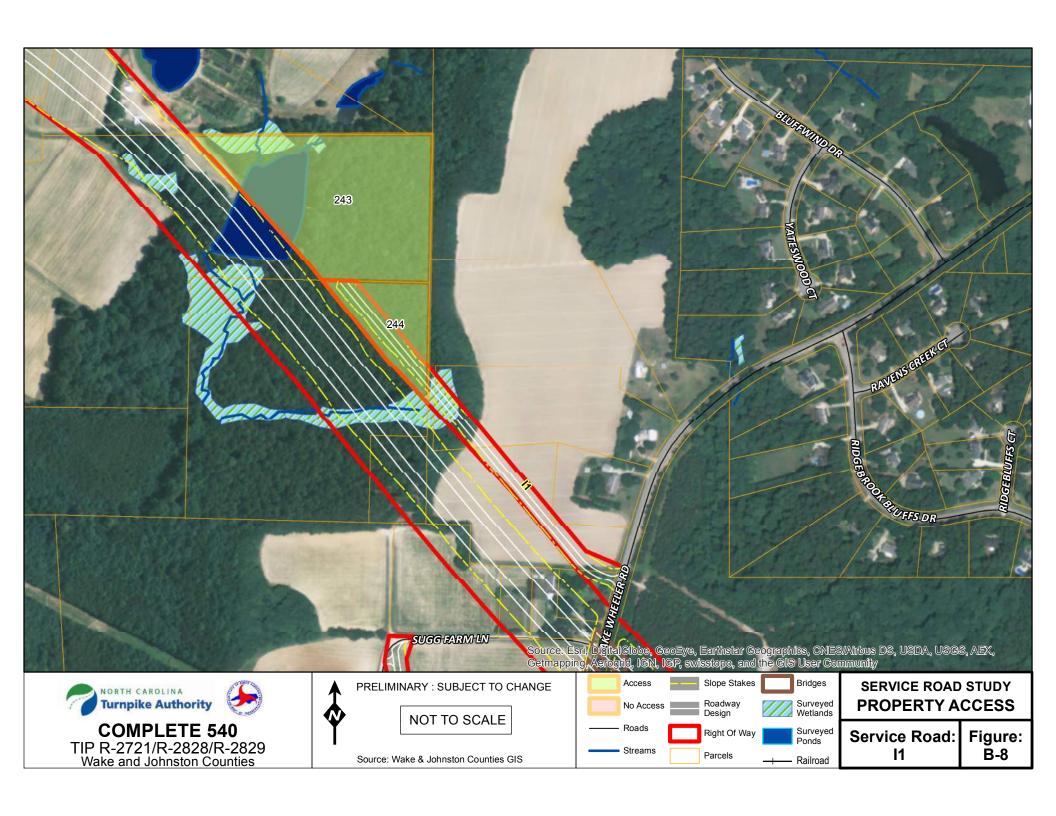


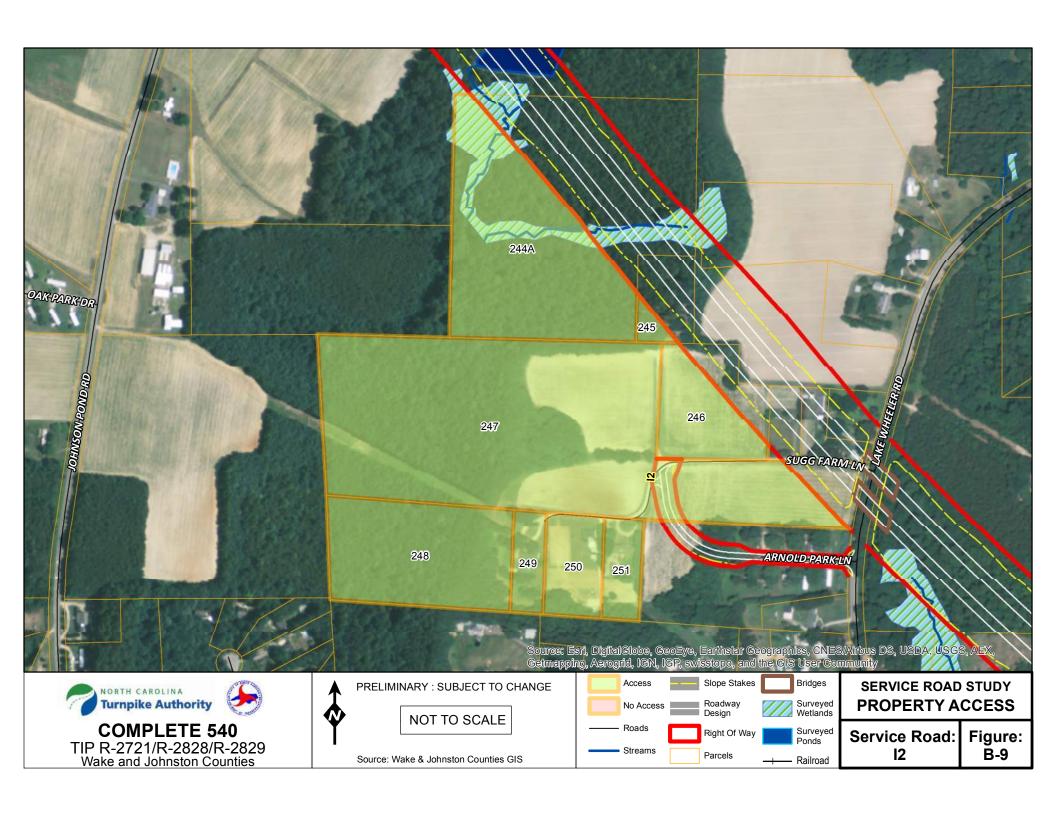


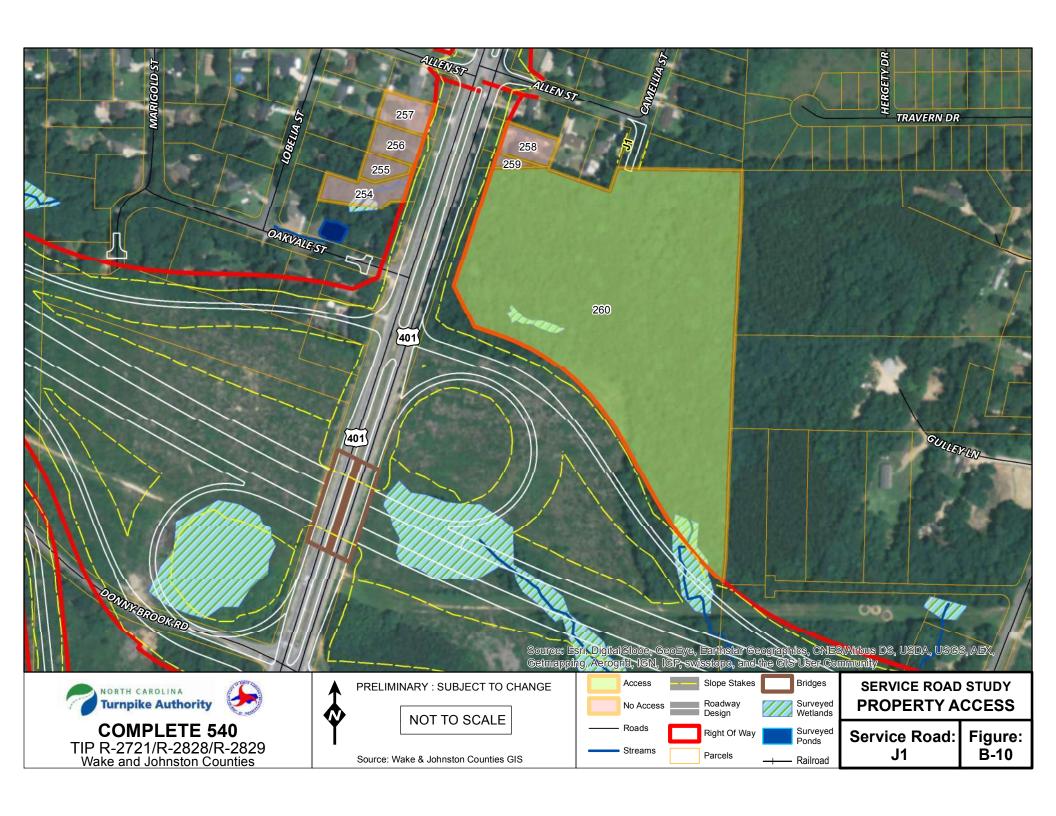


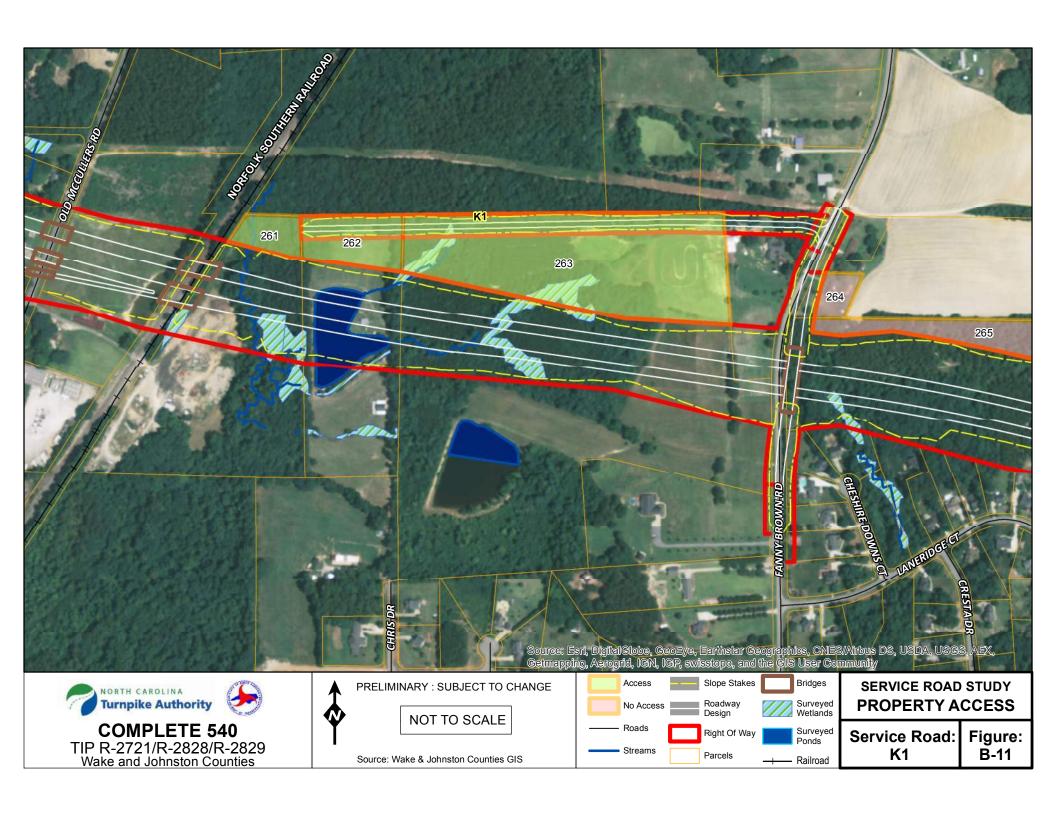


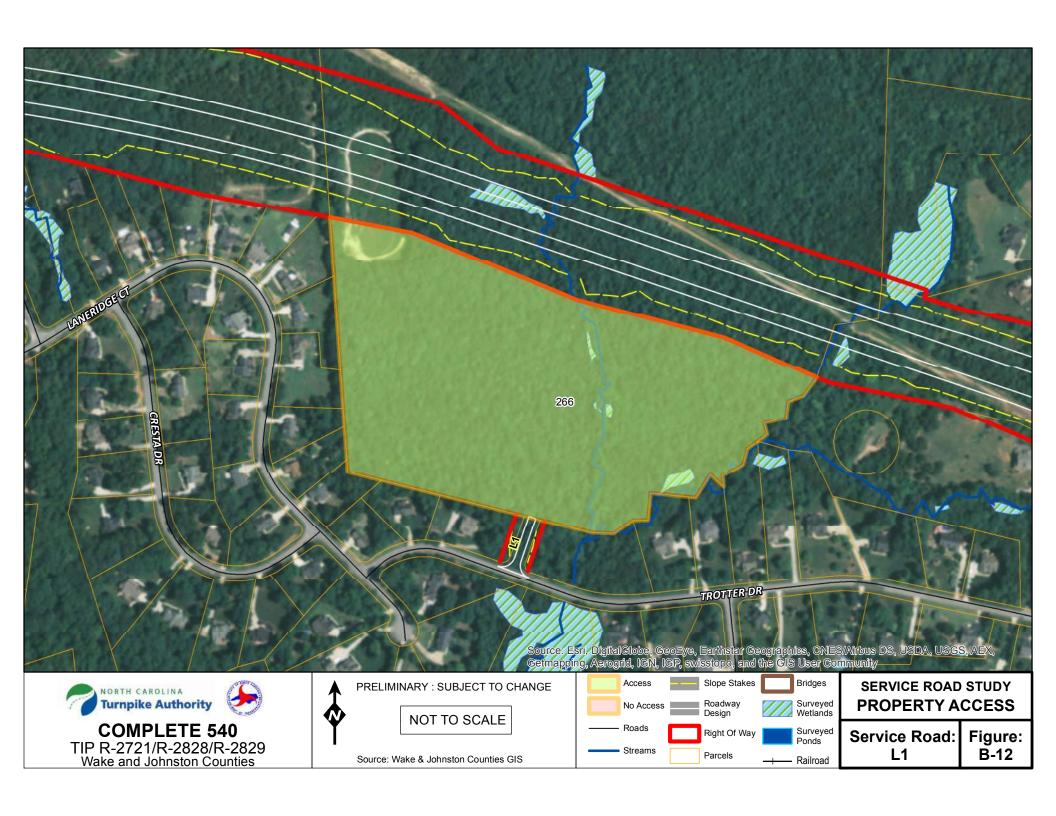


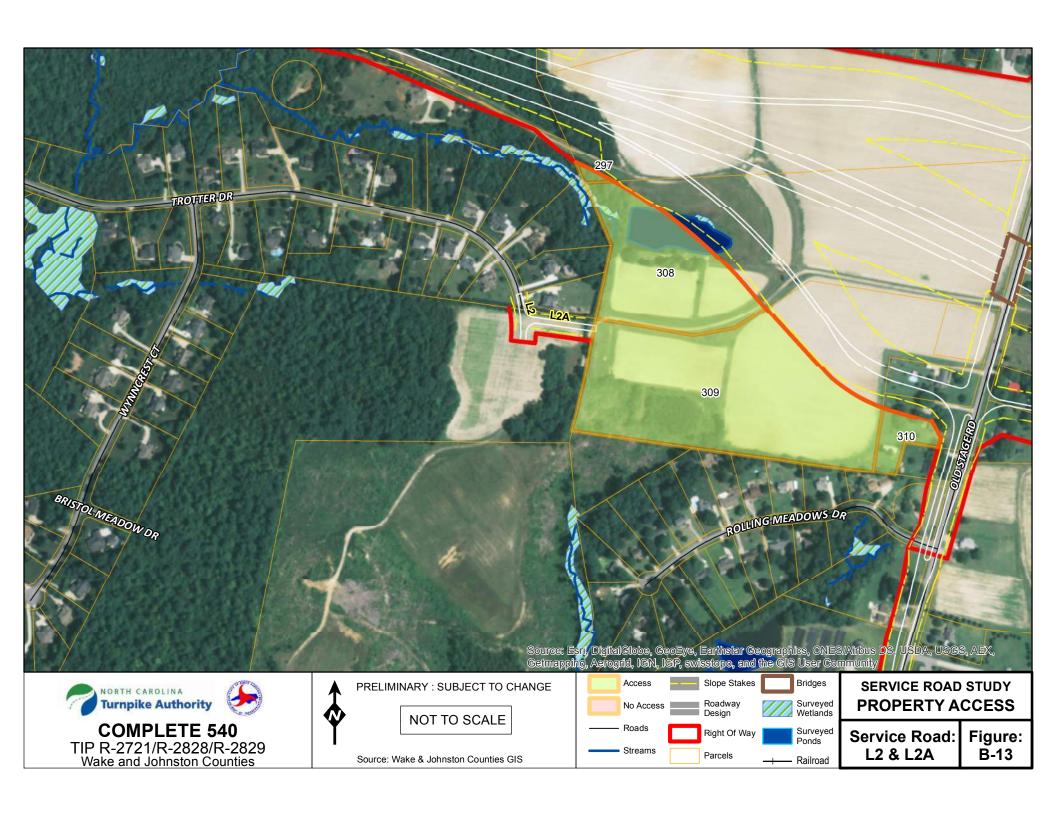


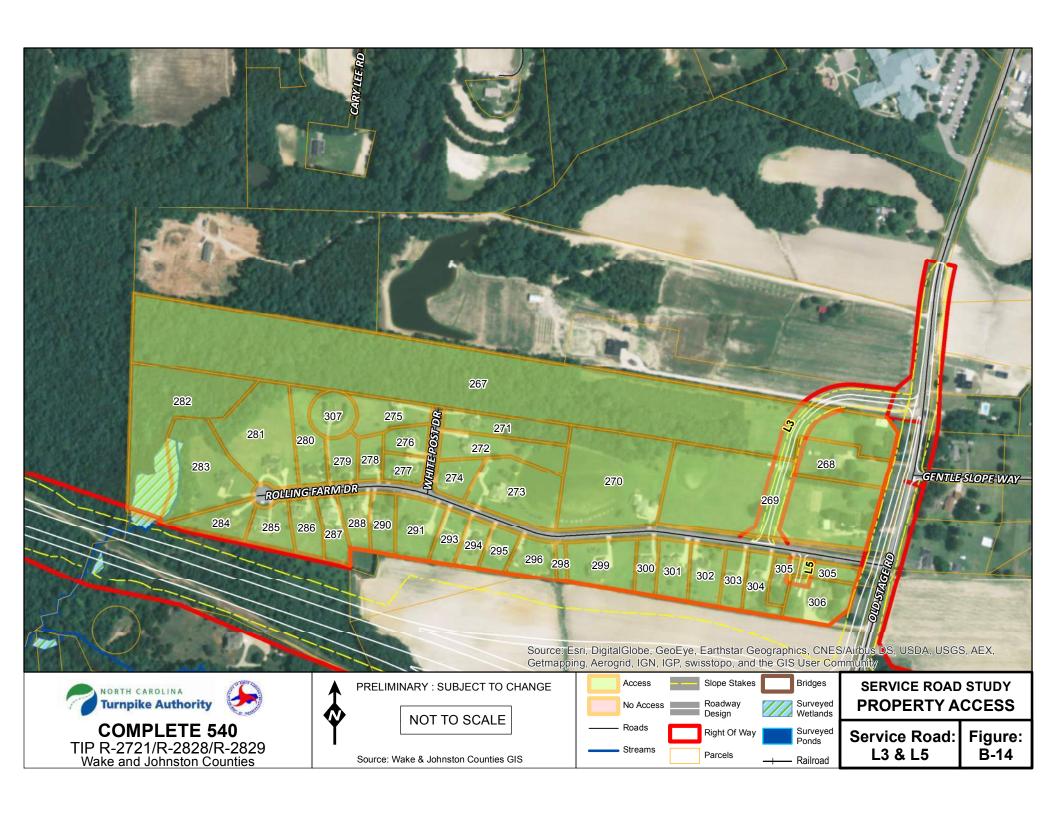


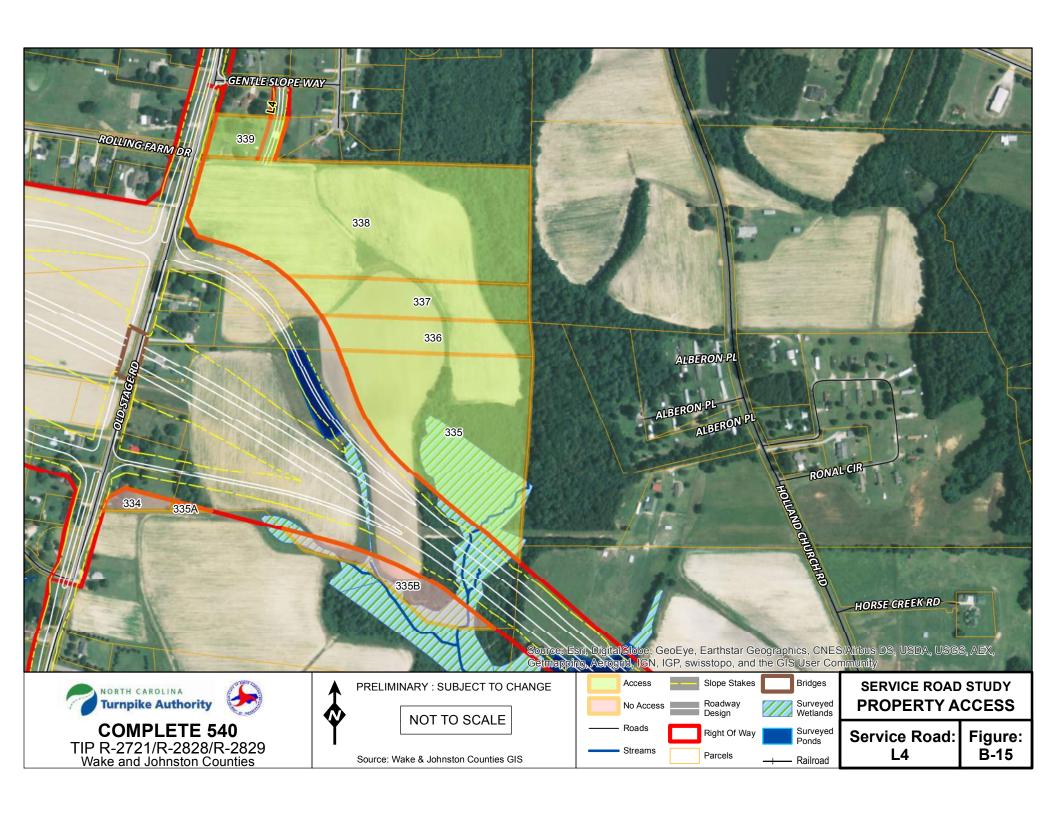


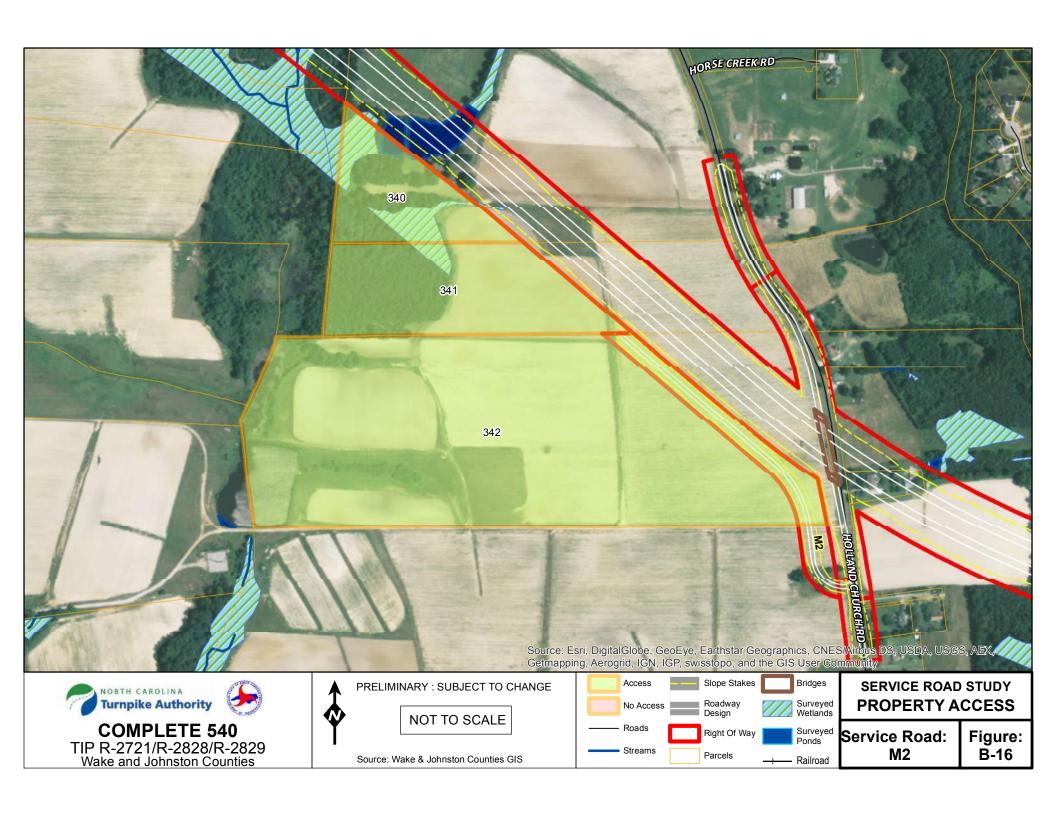


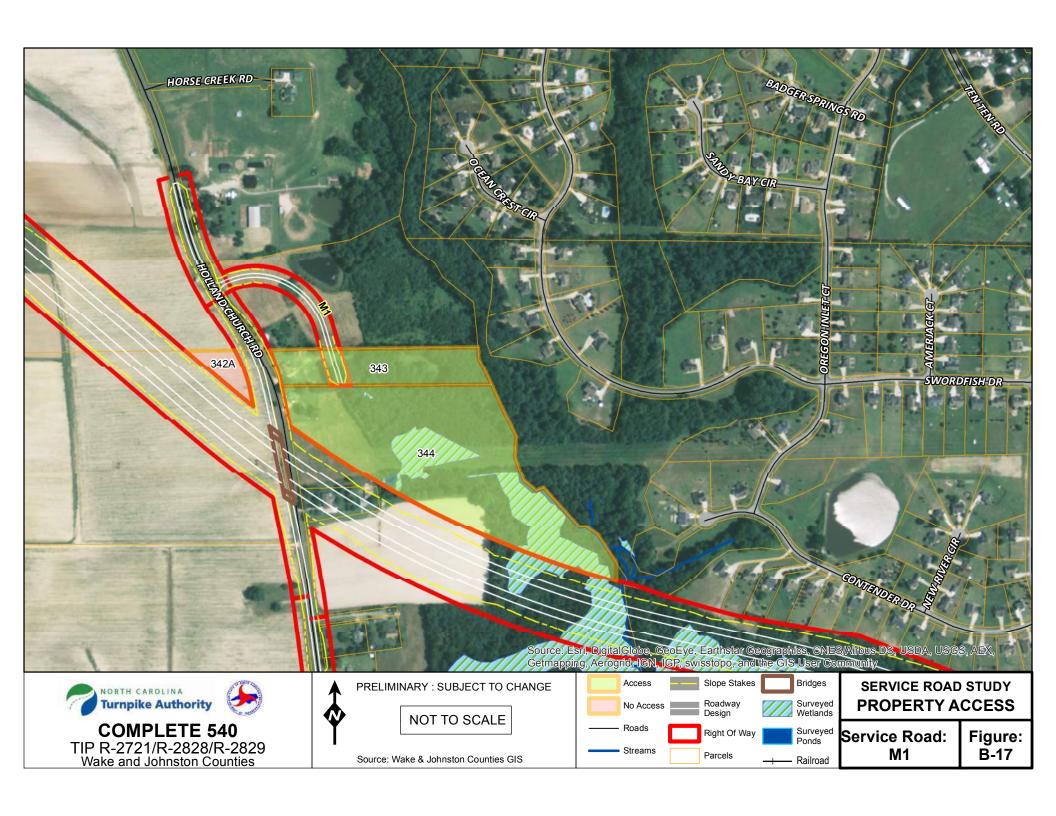


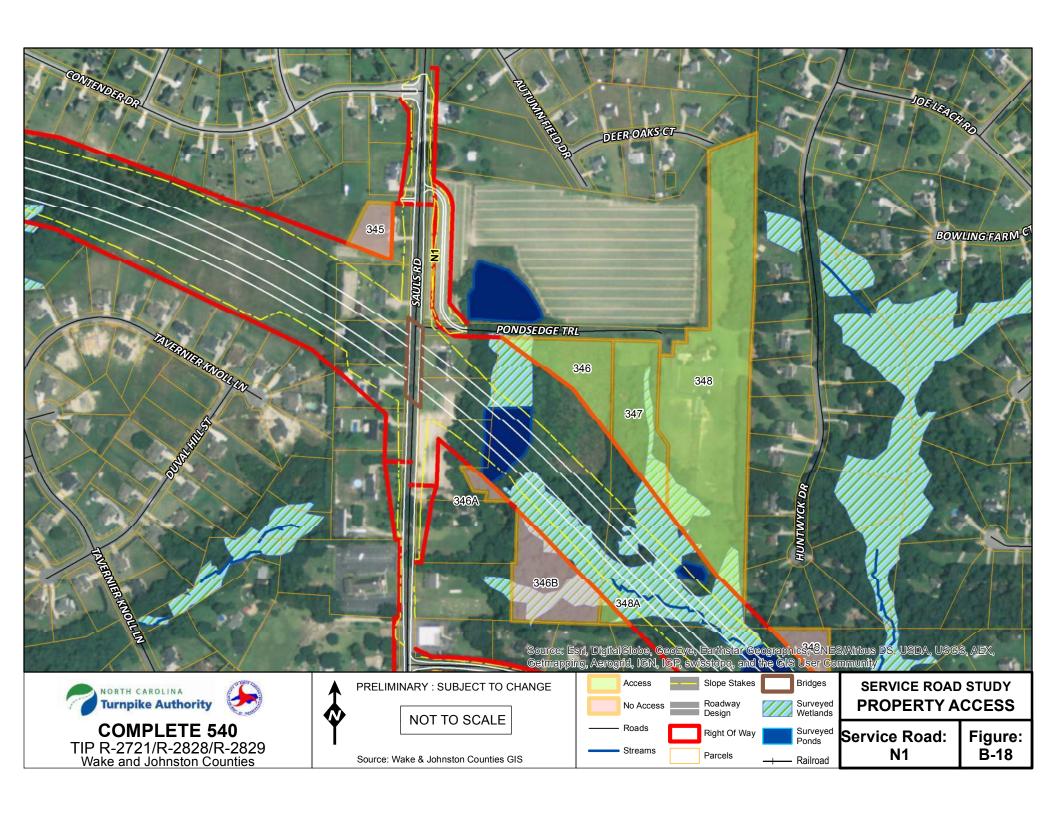


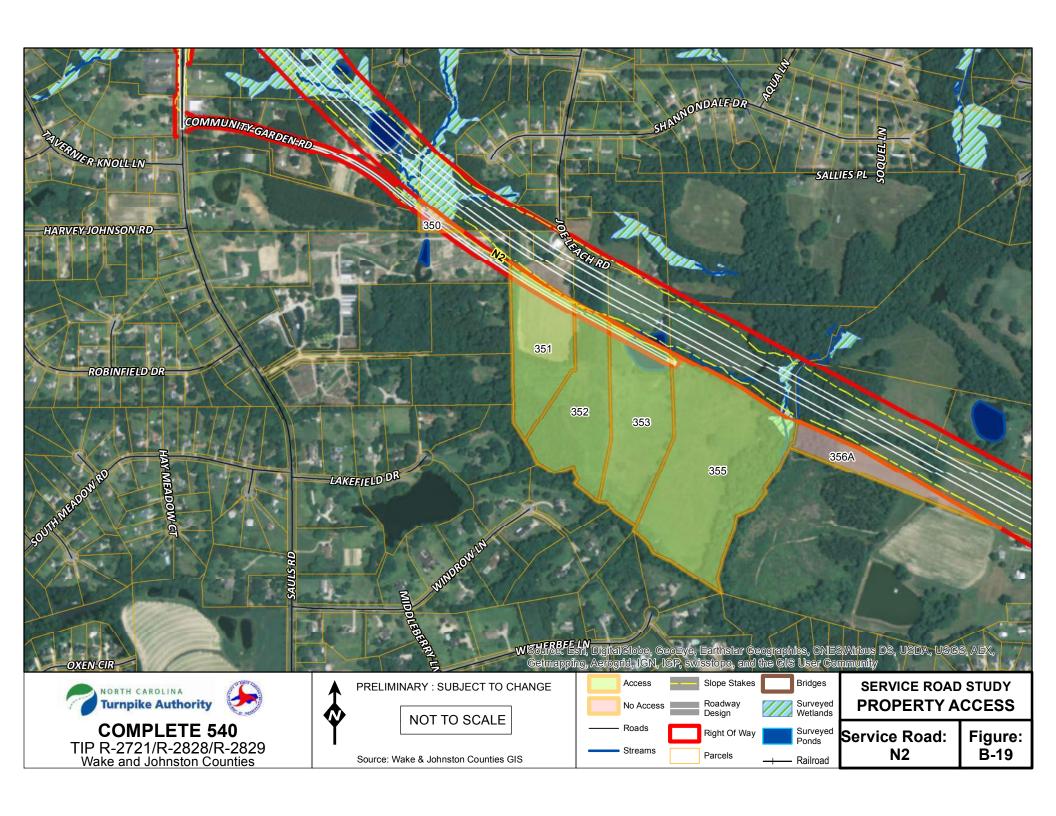


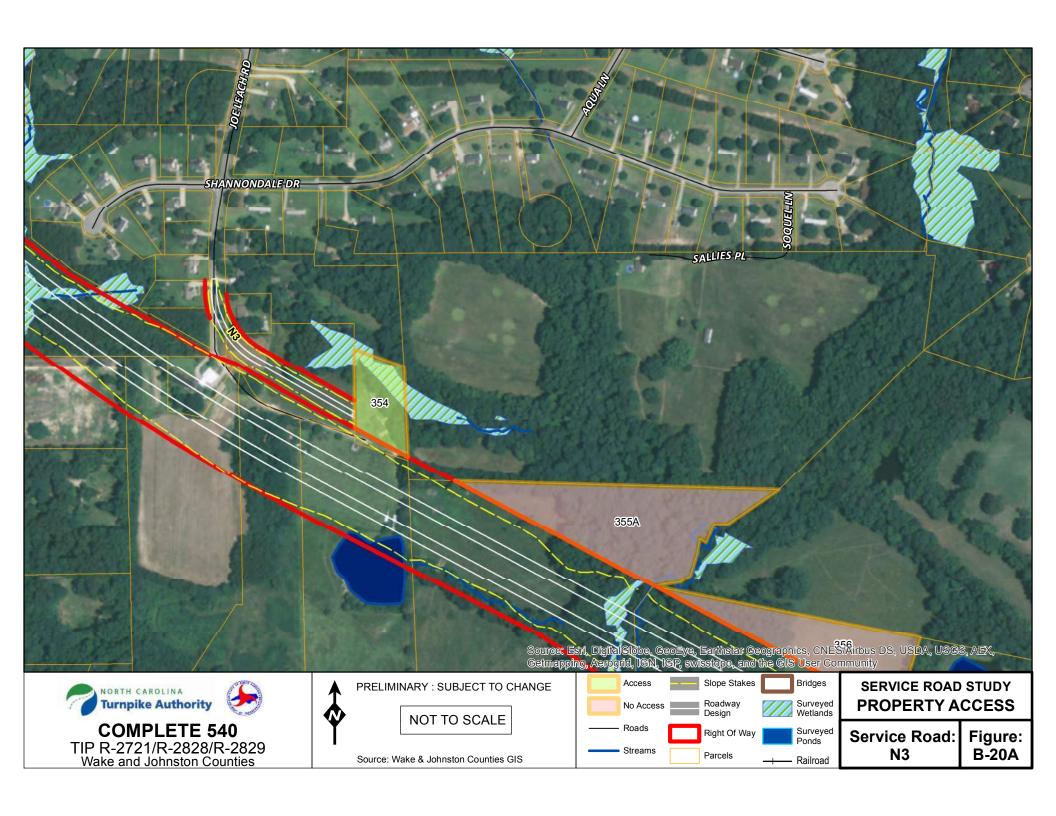


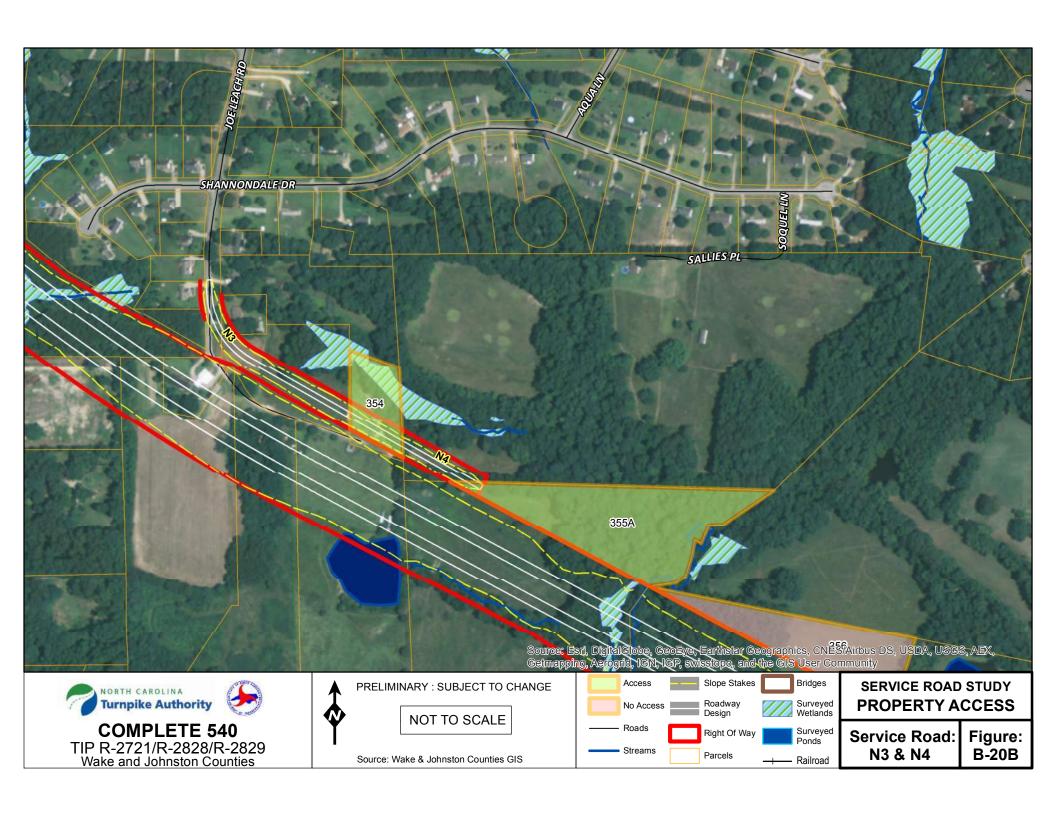


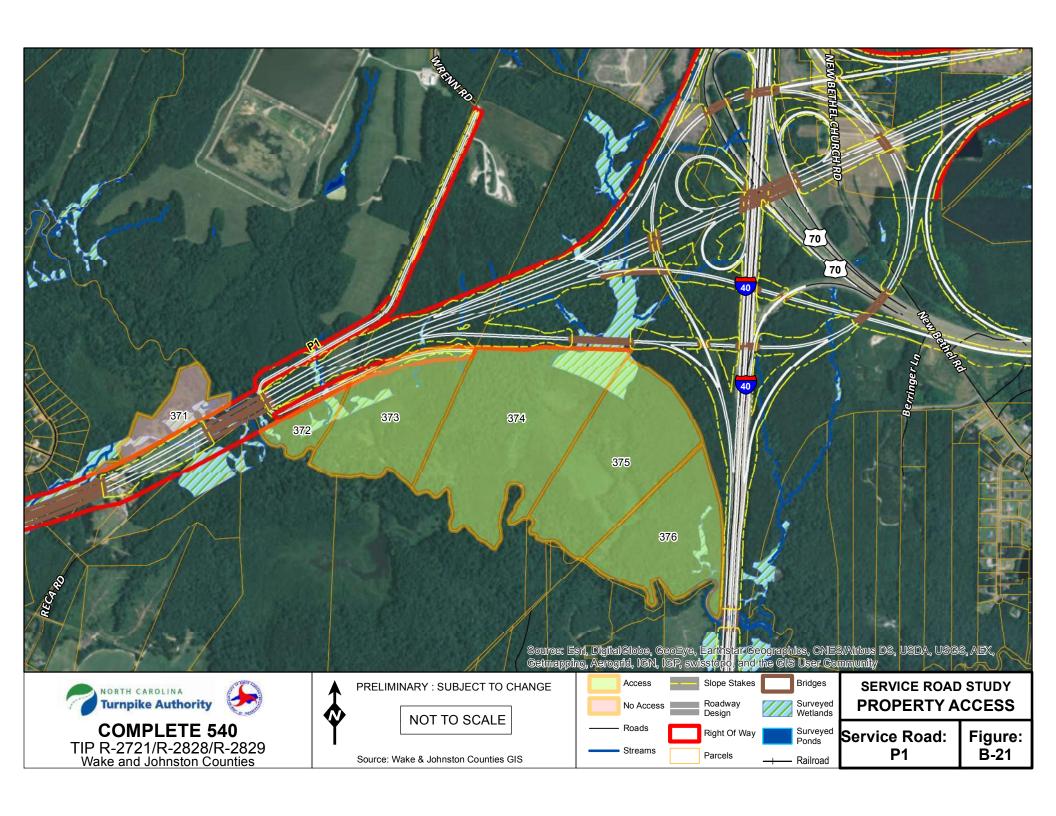


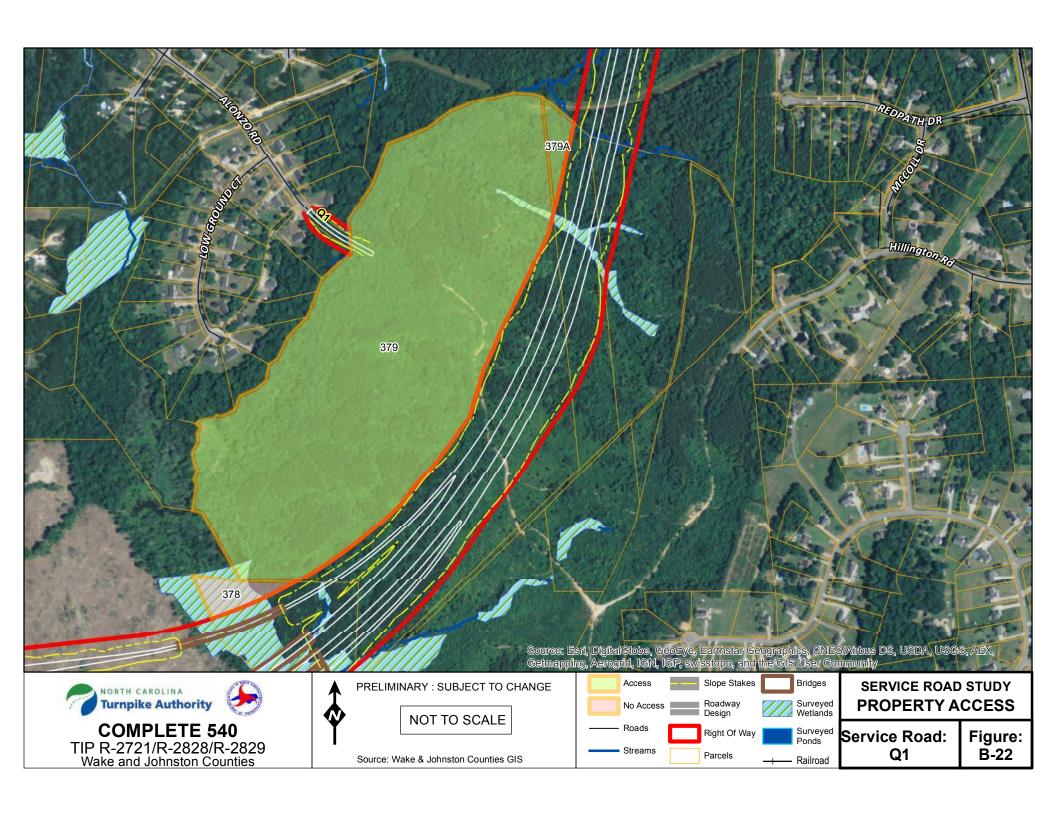


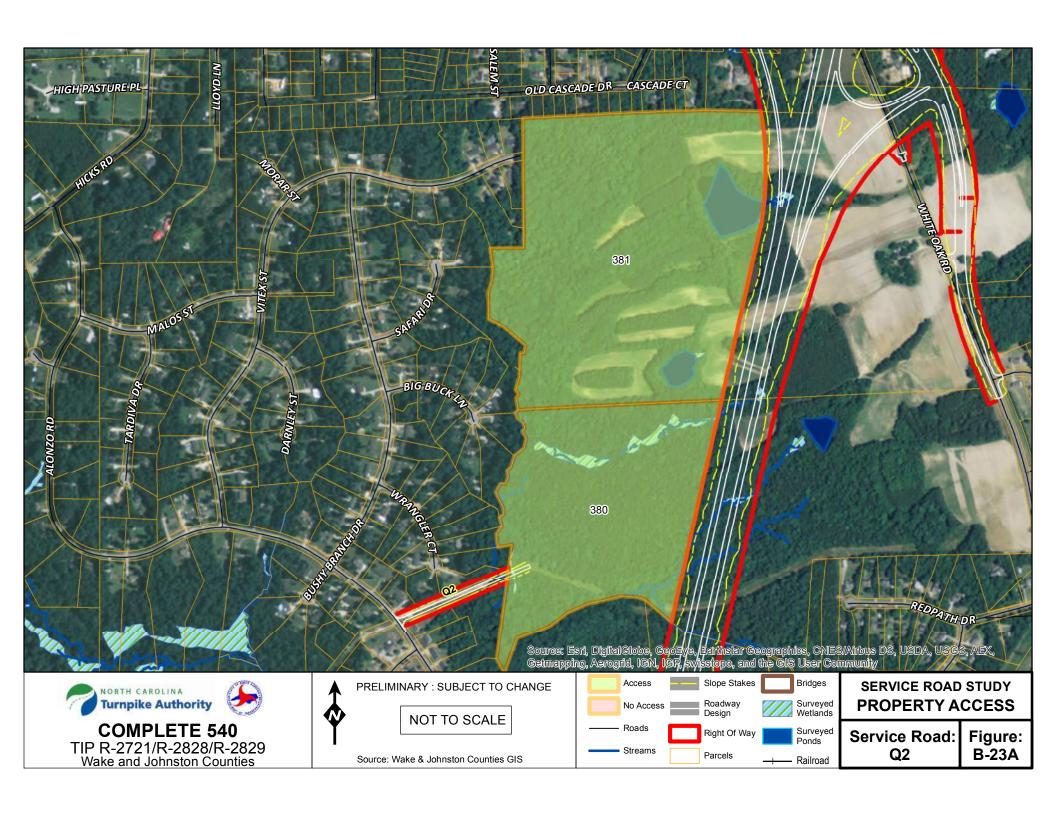


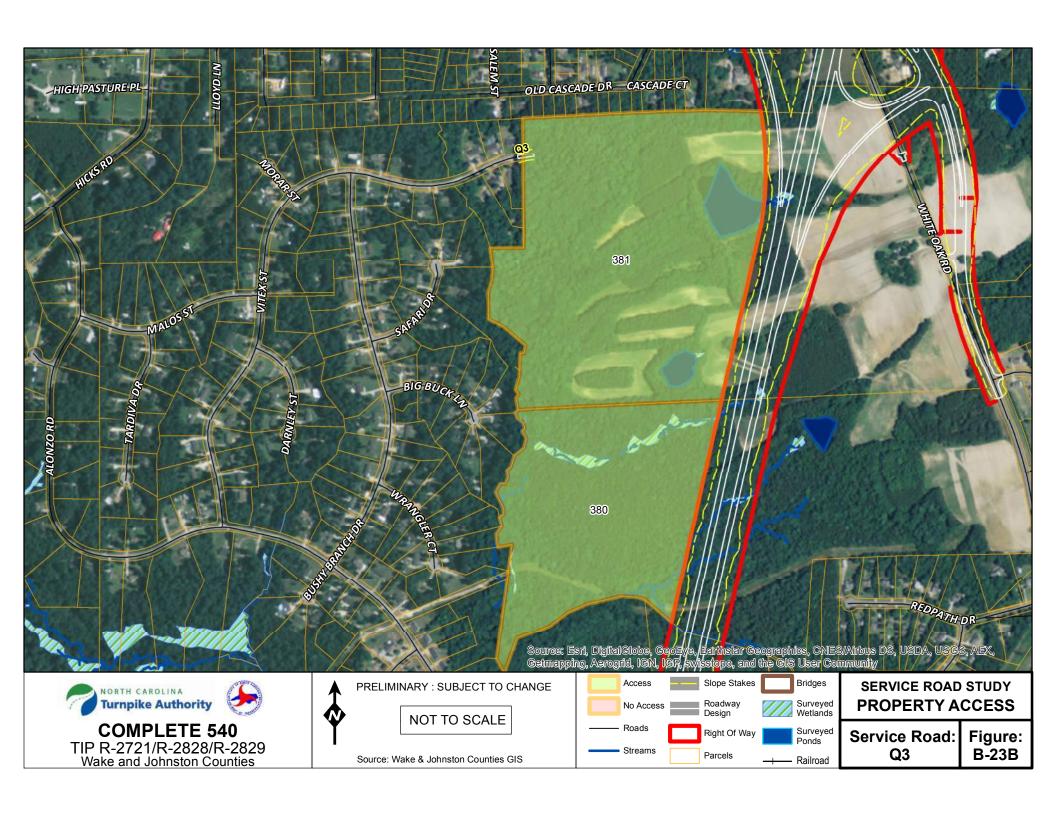


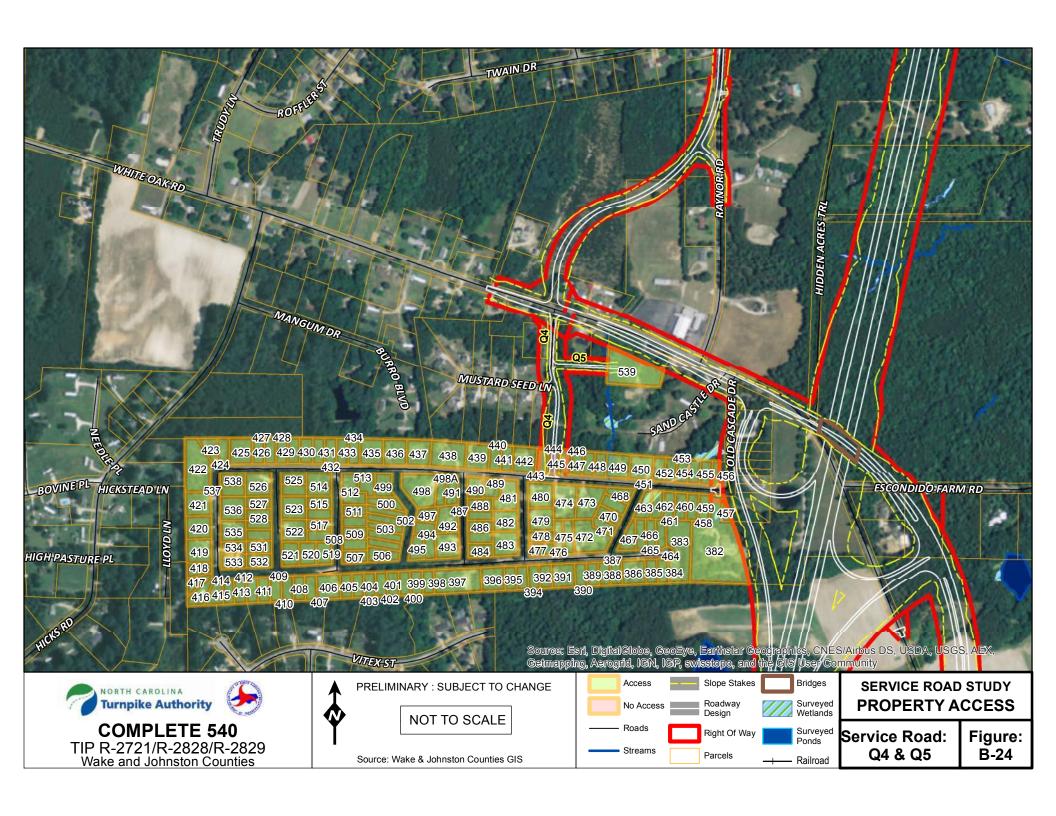


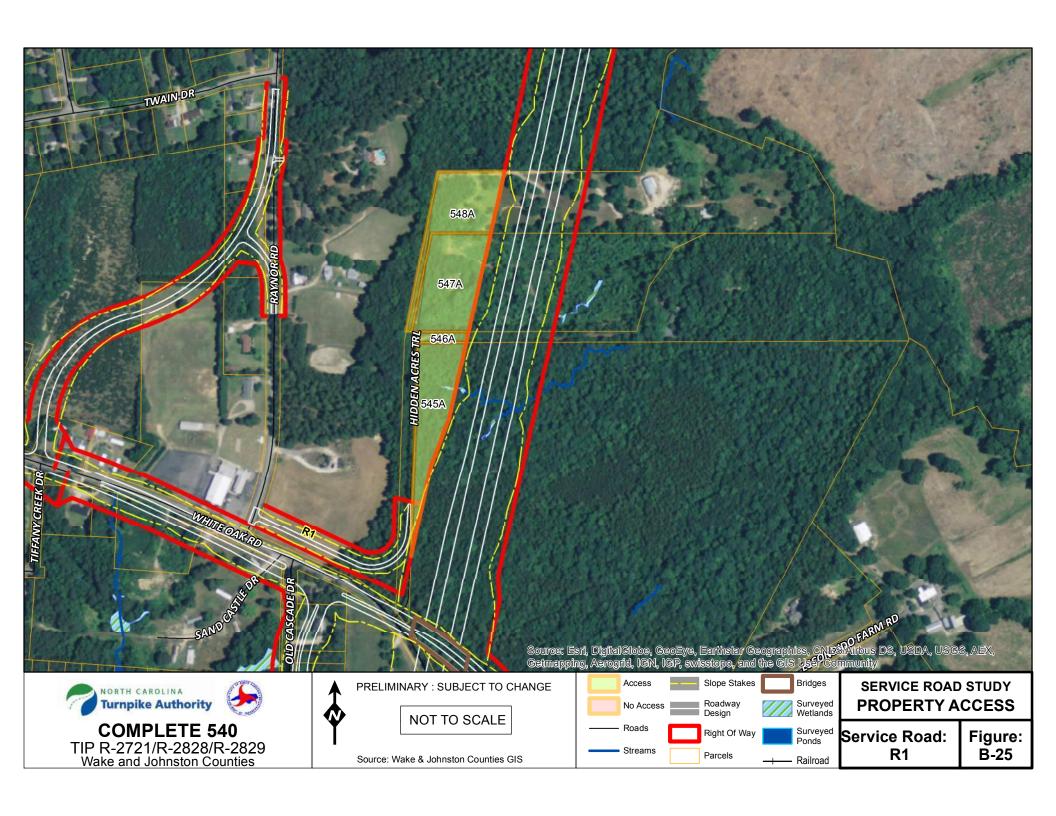


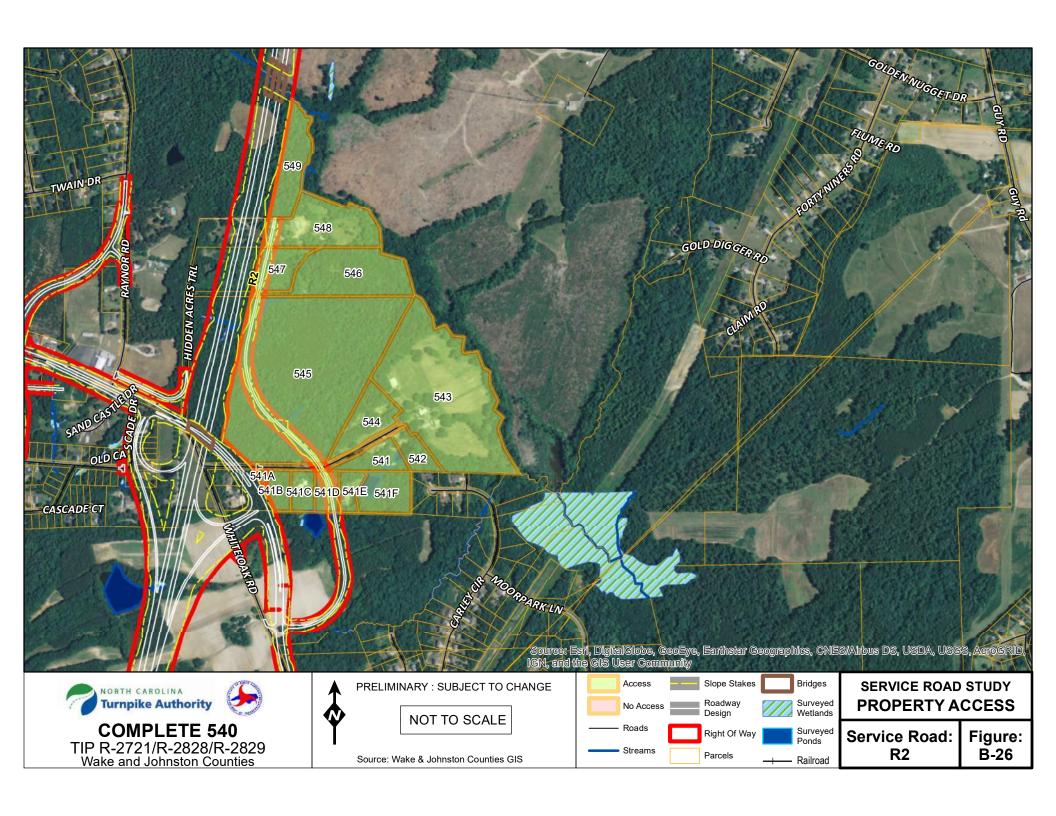


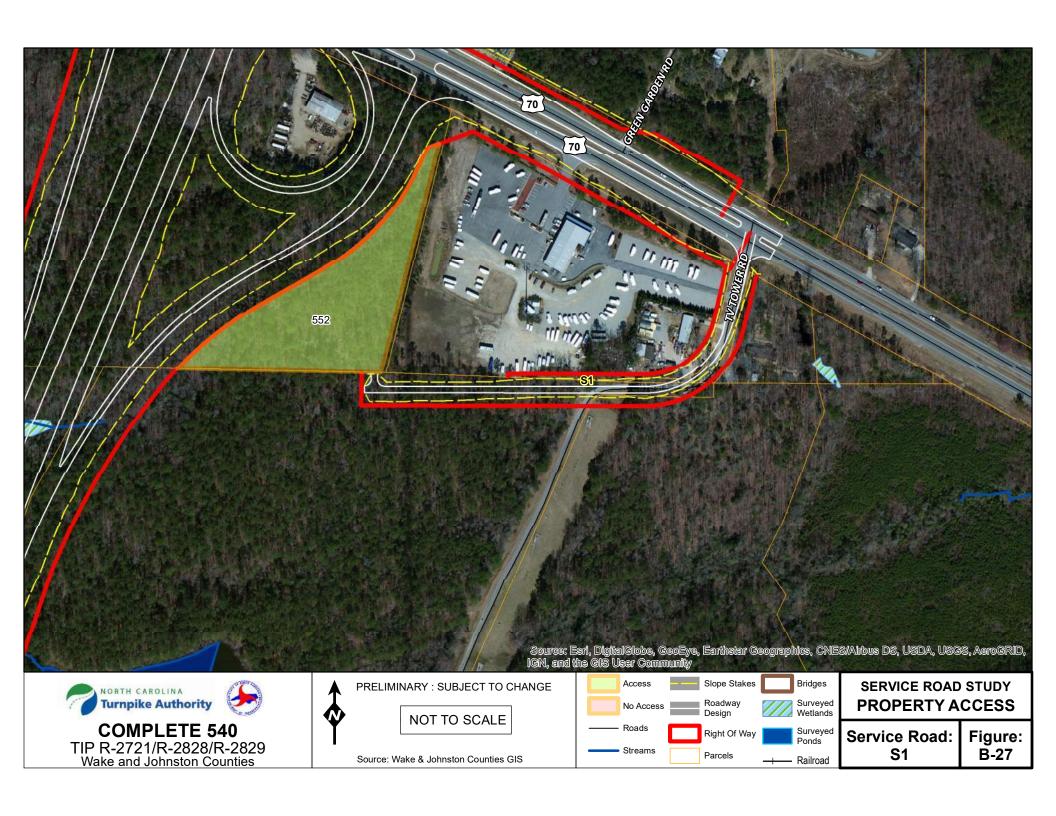


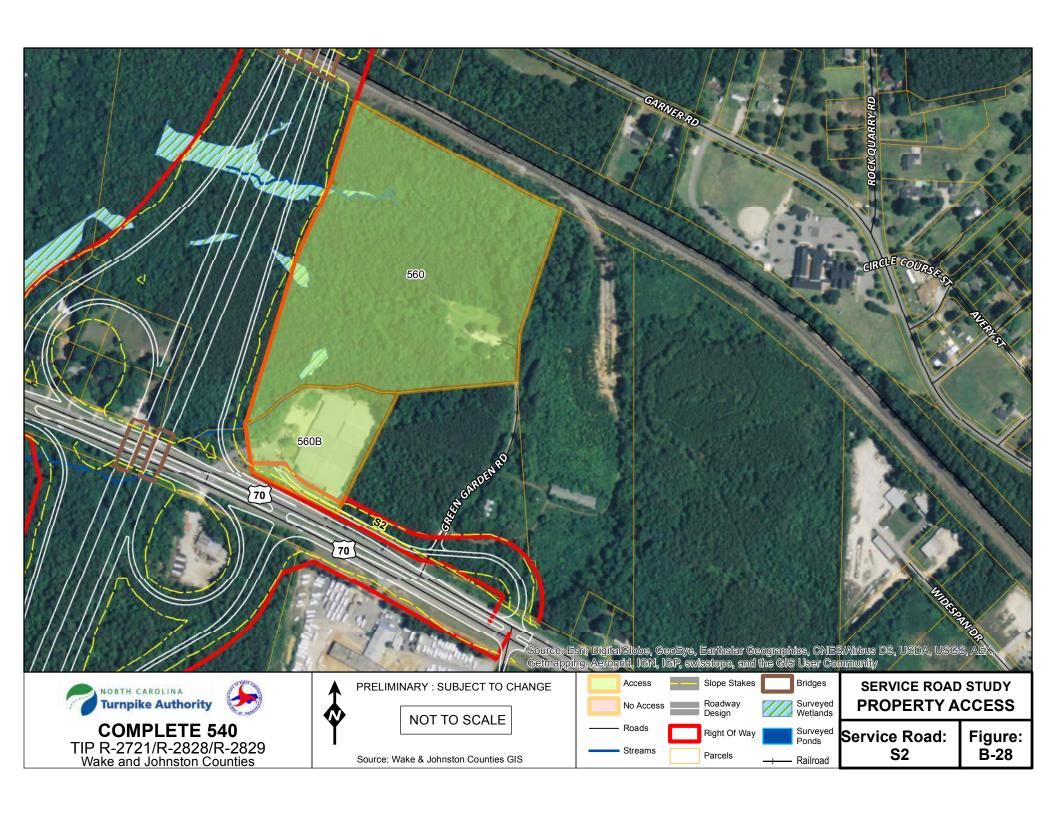


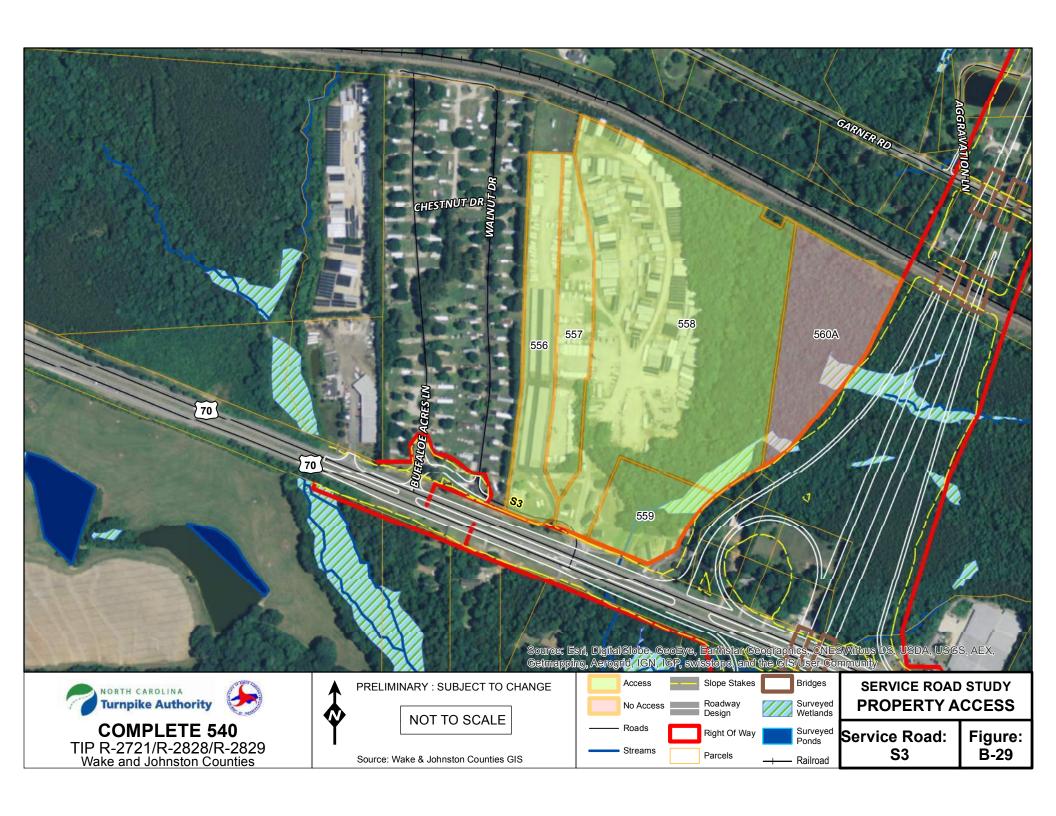


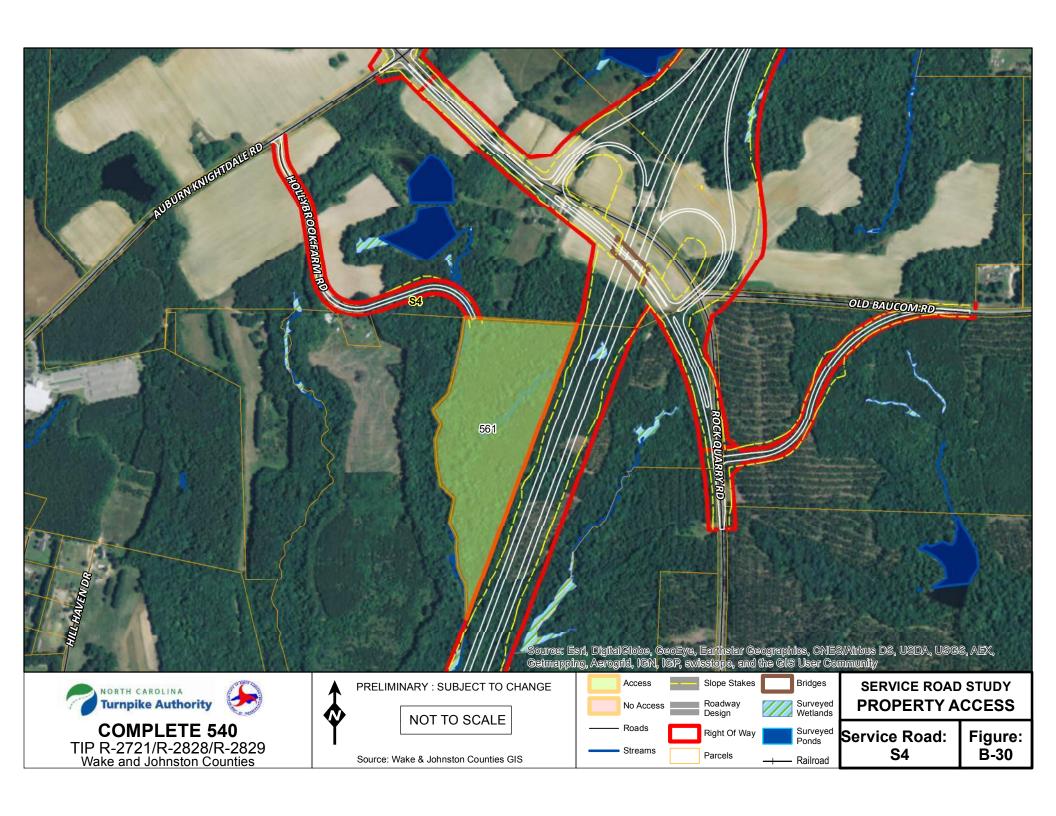


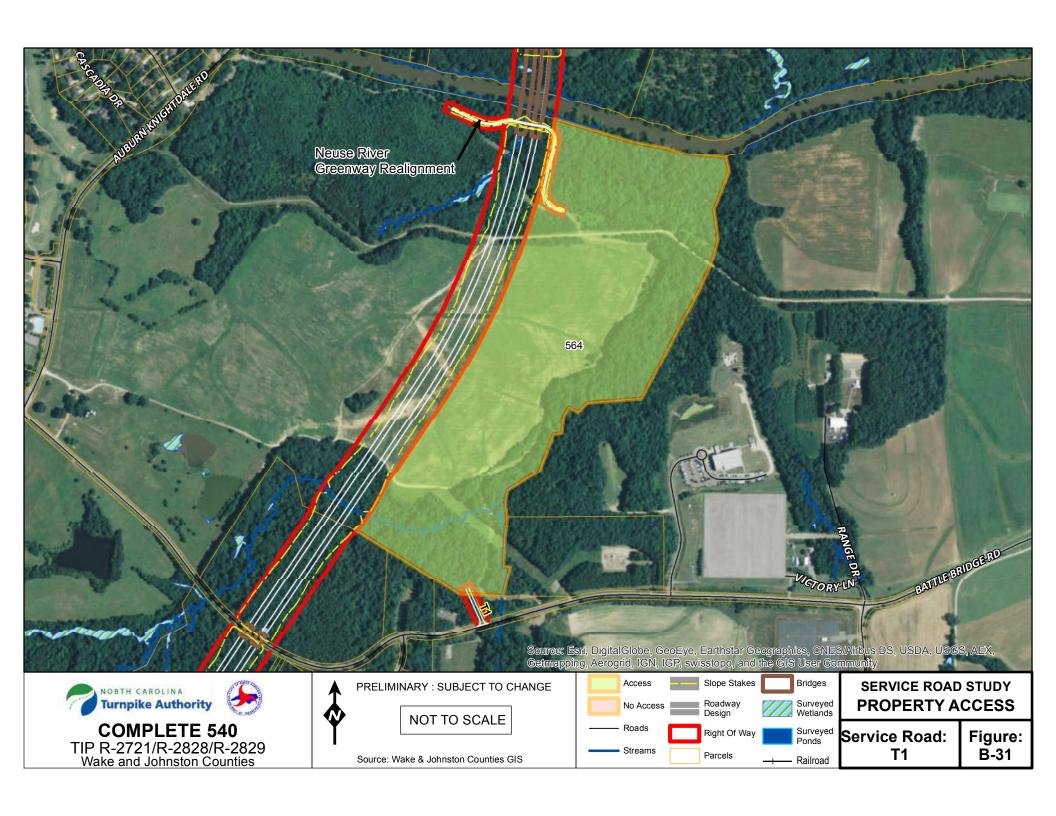


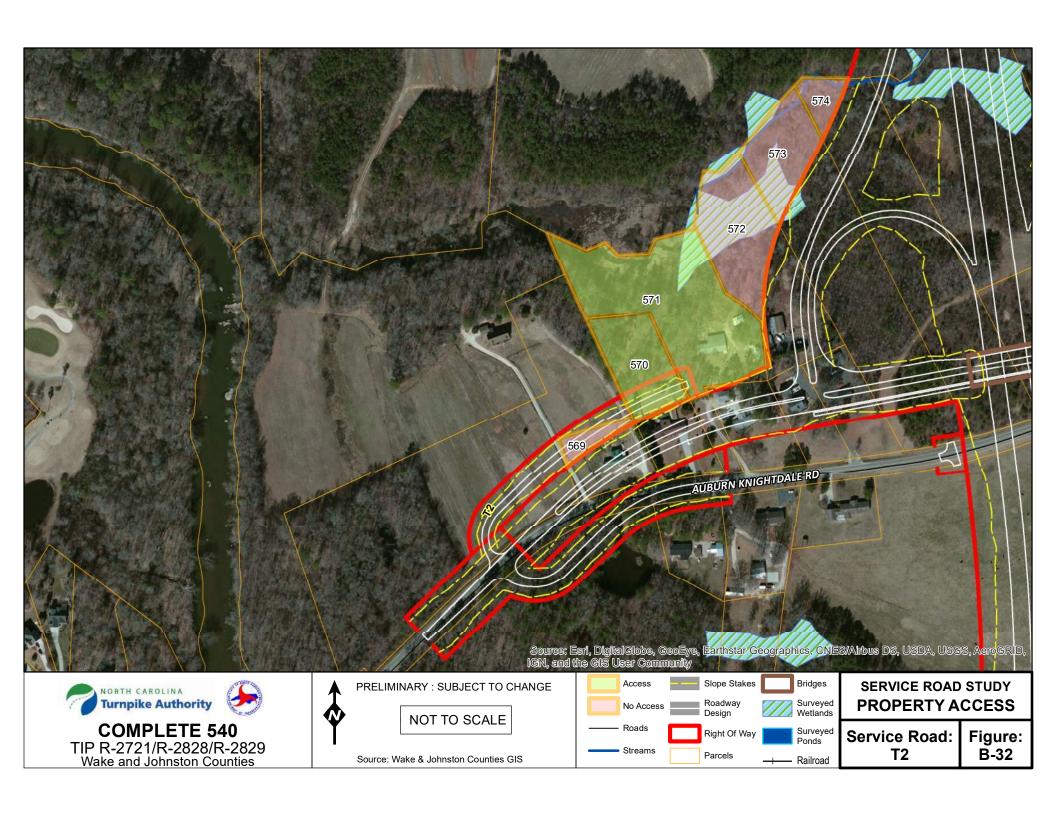


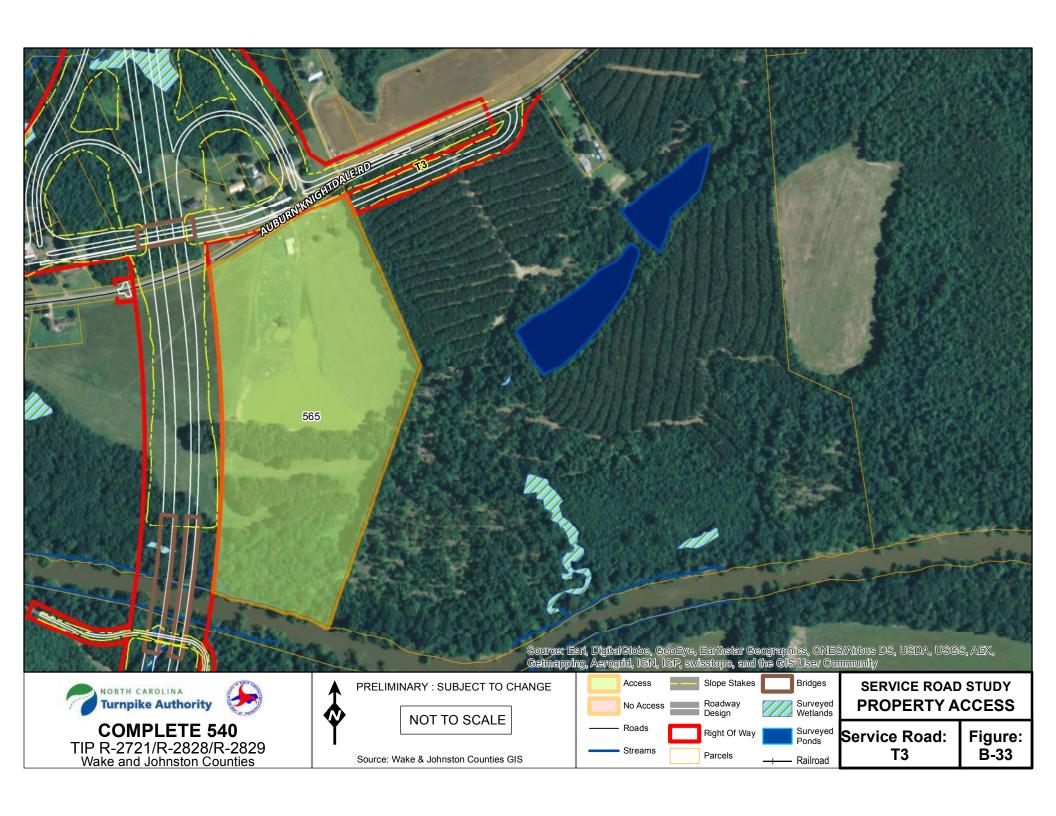


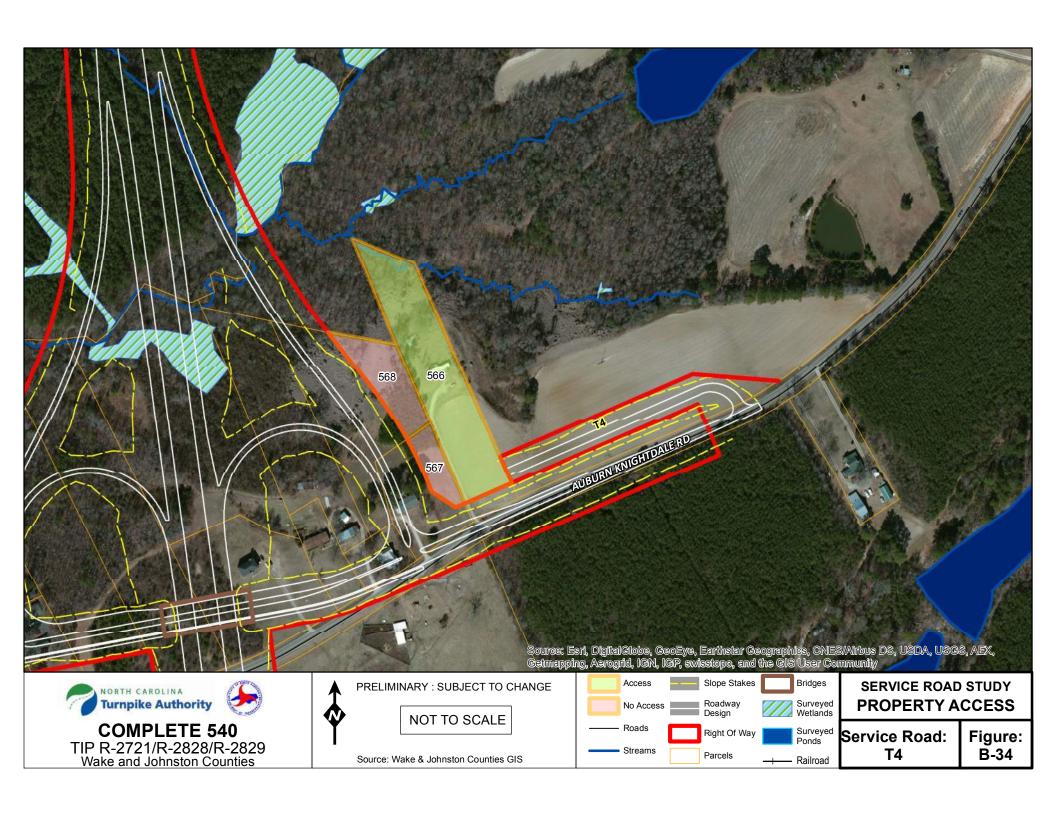


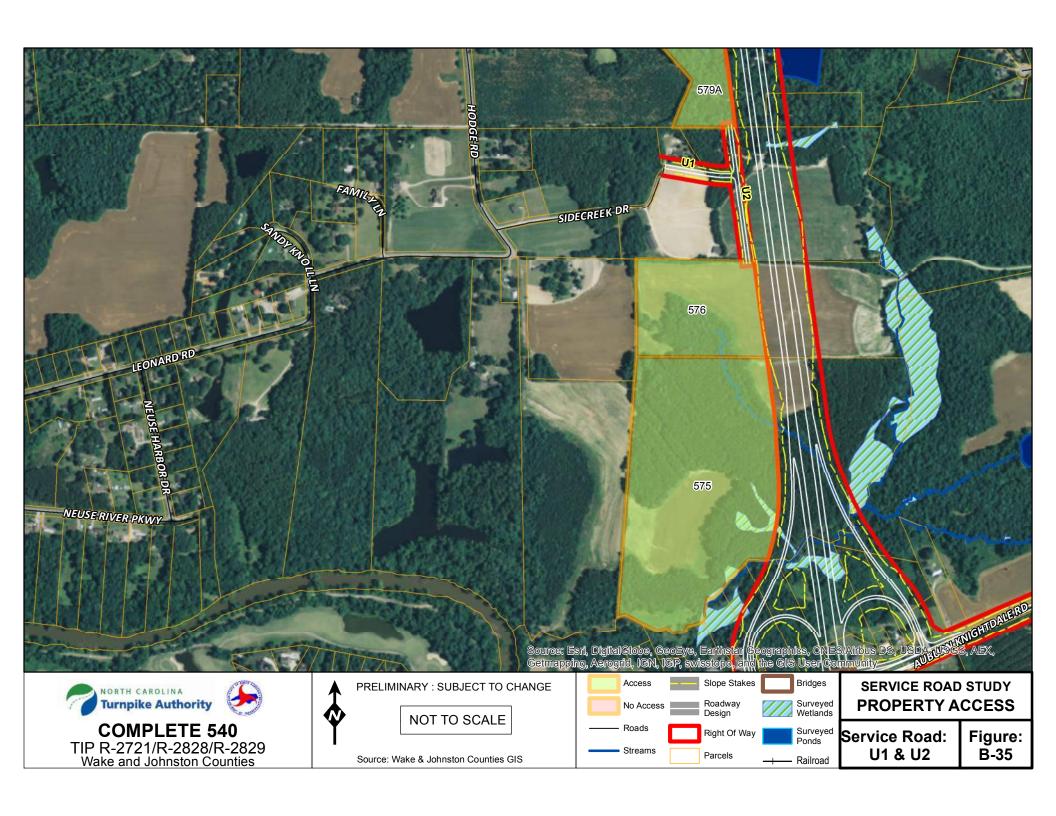


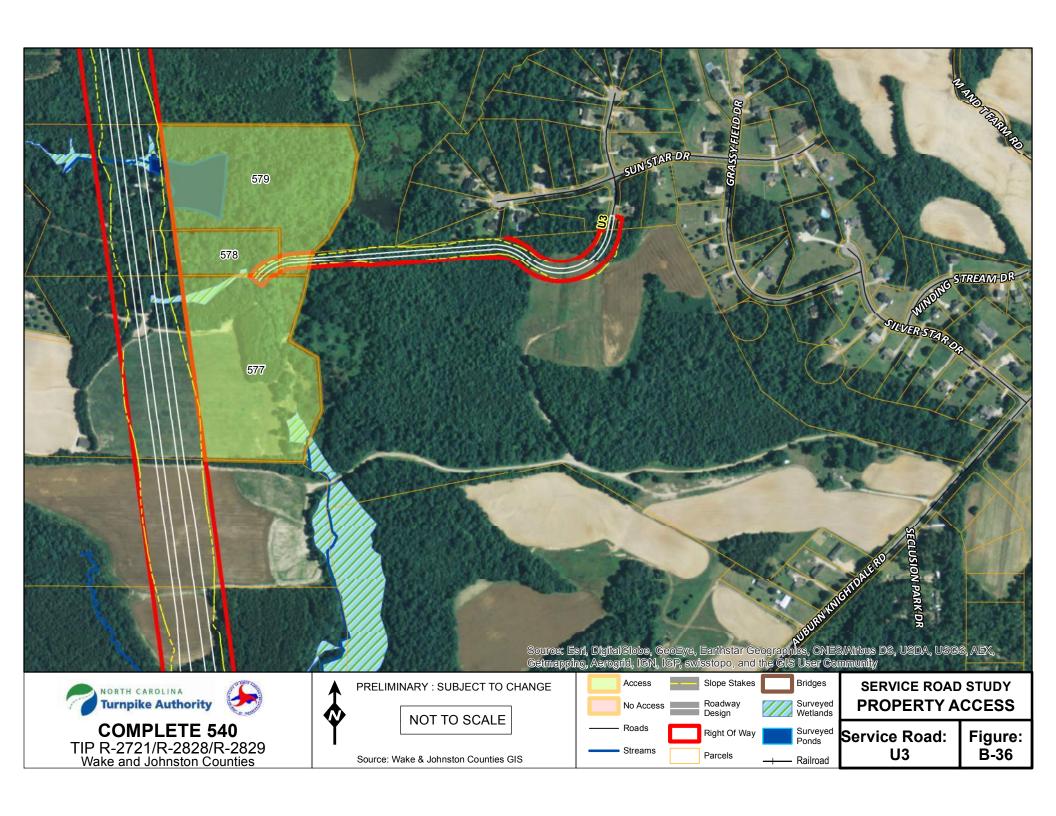


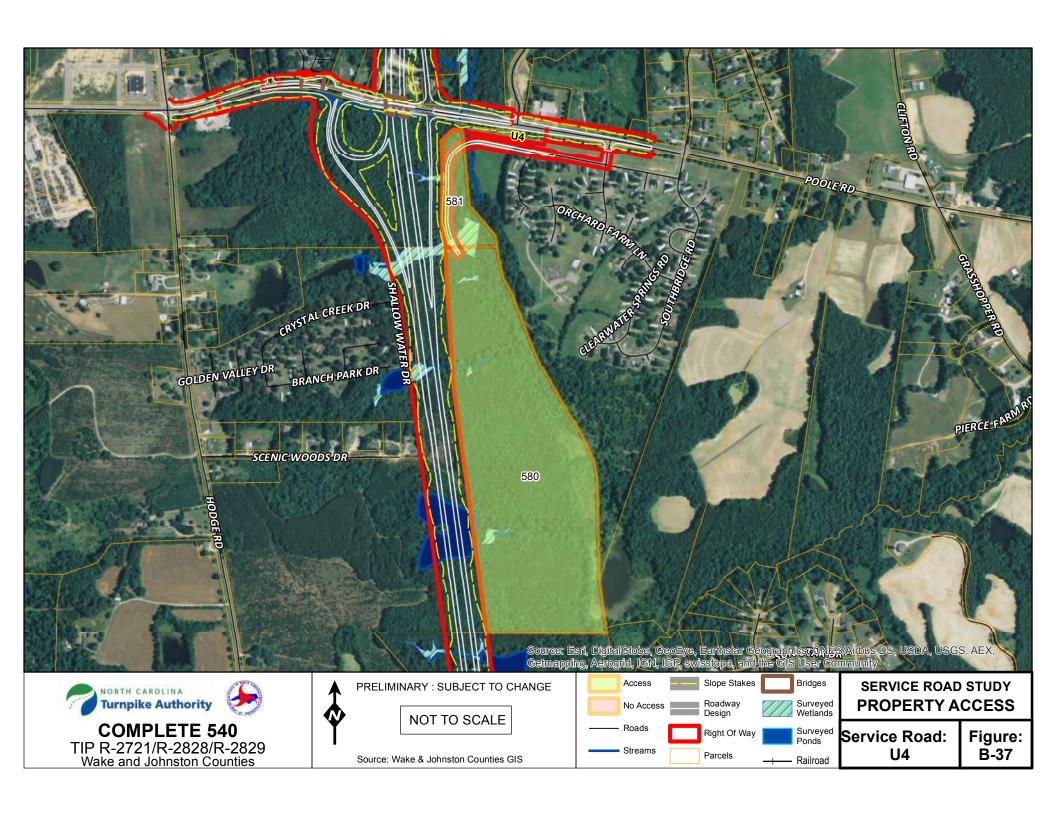


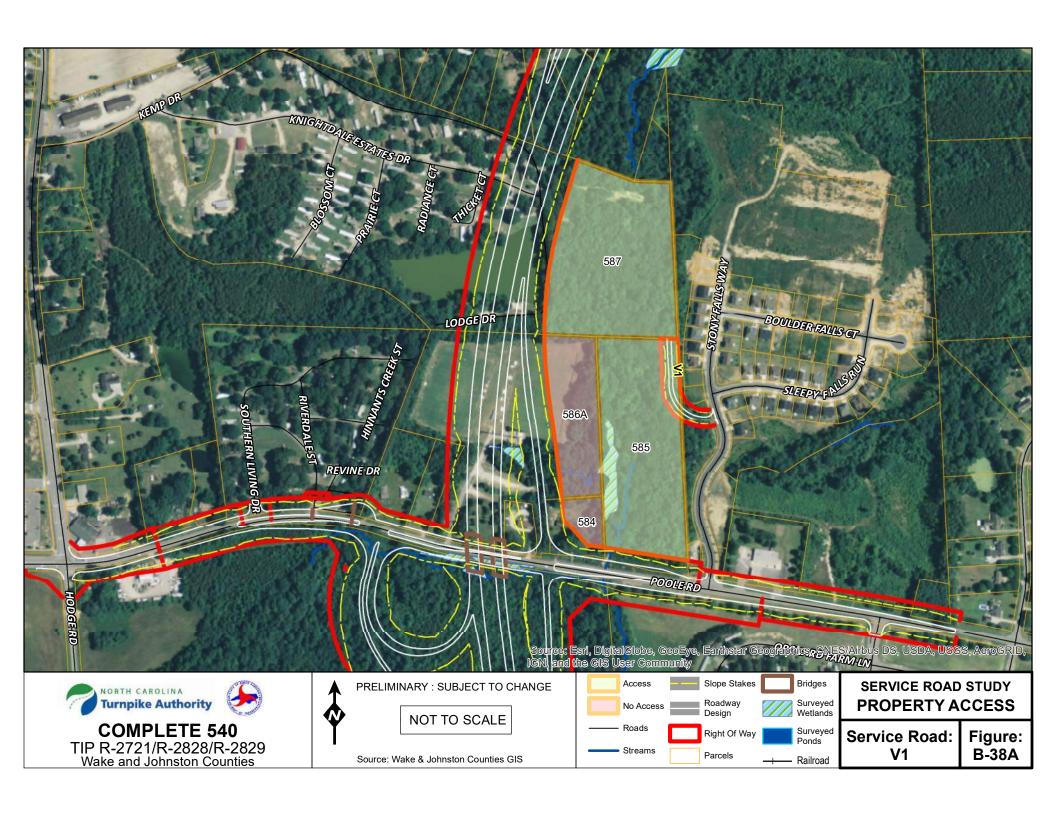


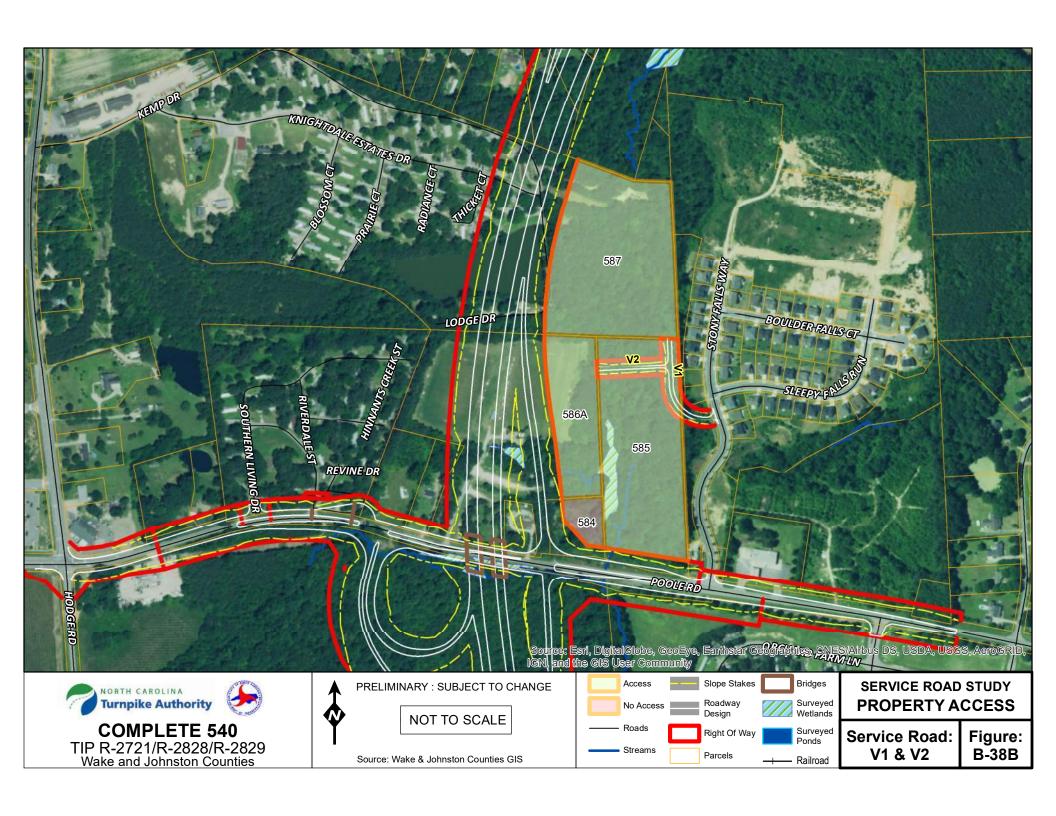


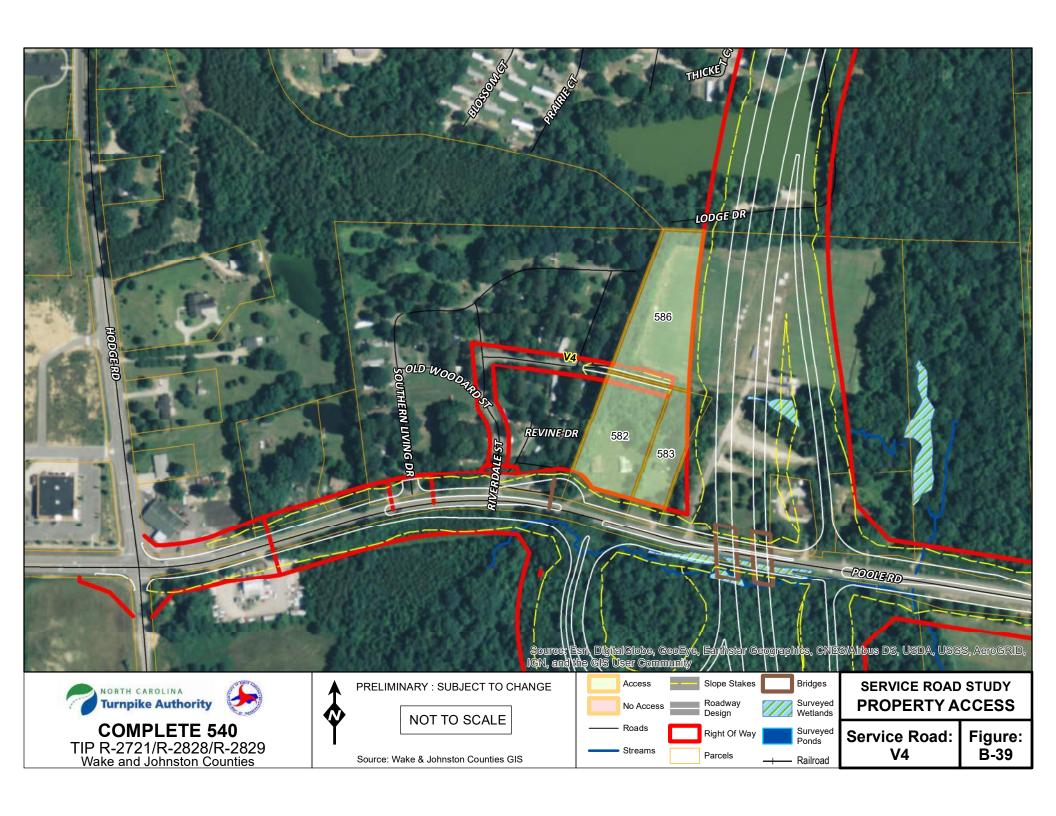


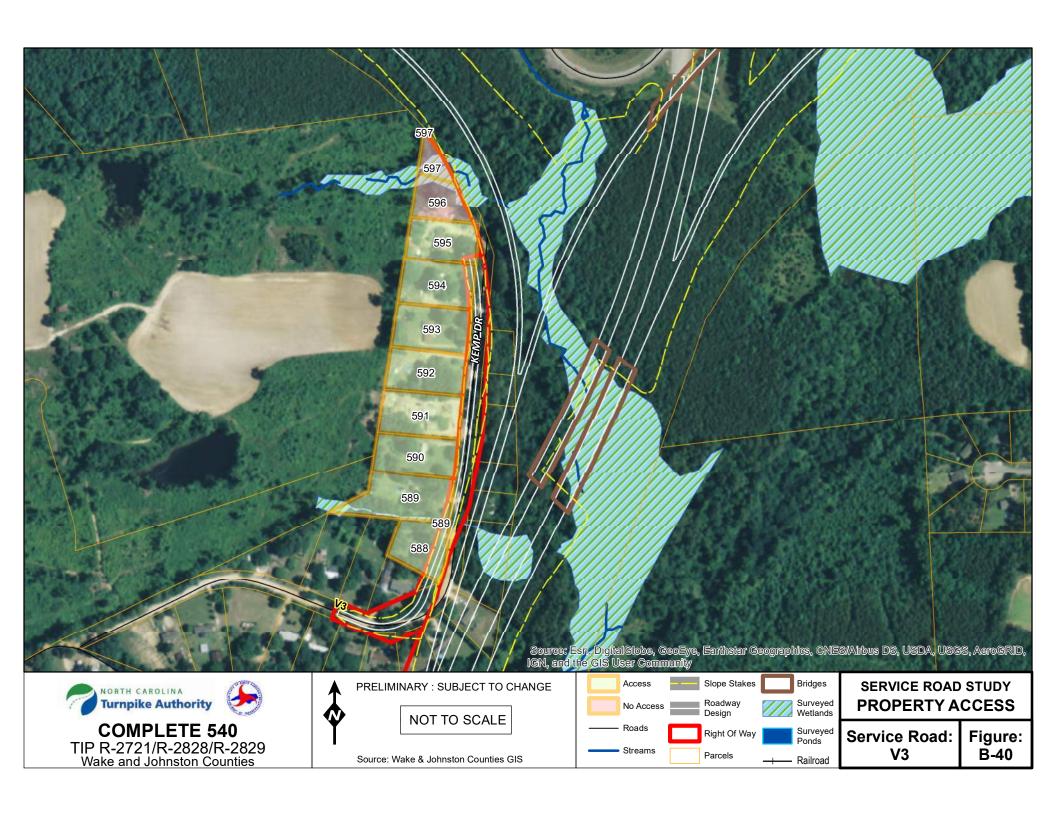












APPENDIX C

Cost Estimates

APRIL 2017 COMPLETE 540

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			OLEADARD AND ORLIDANA		. ~	_	******		
			CLEARING AND GRUBBING	0.3	AC	\$	20,000.00	\$	6,000.00
			LINCLASSIFIED EVOAVATION	2.711	CV	Ф	5.00	Φ.	12.555.00
			UNCLASSIFIED EXCAVATION BORROW	2,711 87	CY CY	\$ \$	5.00	\$ \$	13,555.00 435.00
			BORROW	87	CY	Þ	3.00	Þ	433.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.17	MILES	\$	150,000.00	S	25,500.00
			BIG WITH COUNTY FOR THE STREET CESTION	0.17	WILLS	Ψ	120,000.00	Ψ	22,500.00
			FINE GRADING	3,450	SY	\$	2.00	\$	6,900.00
			PAVEMENT WIDENING	- ,	SY	Ť		\$	-
			NEW PAVEMENT	1,800	SY	\$	45.00	\$	81,000.00
			PAVEMENT RESURFACING	ĺ	SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	1,980	SY	\$	6.00	\$	11,880.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.94	ACRES	\$	14,600.00	\$	13,724.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL	0.15	EA	Φ.	20.000.00	\$	-
			TRAFFIC CONTROL	0.17		\$	20,000.00	\$	3,400.00
			THERMO AND MARKERS	-	MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	_
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION		1.5			•	
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	73,077.30

Contract Cost	\$ 235,471.30
<u>E. & C. 15%</u>	\$ 35,320.70
Construction Cost	\$ 270,792.00
ROW Cost 1.6 Acres	\$ 103,972.89
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 374,764.88

Property Aquistion Cost if not constructed

Amount saved by construction service Road

Additional Cost of Service Road

\$ 242,788.64

\$
Additional Cost of Service Road

\$ 131,976.24

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEADING AND COURDING	1.6	4.0	Ф	20,000,00	e	22 000 00
			CLEARING AND GRUBBING	1.6	AC	\$	20,000.00	\$	32,000.00
			UNCLASSIFIED EXCAVATION	6,700	CY	\$	5.00	\$	33,500.00
			BORROW	850	CY	\$	5.00	\$	4,250.00
			BONNOW	050		Ψ	3.00	Ψ	1,230.00
			DRAINAGE NEW LOCATION - 2 LANE CURB & GUTTER	0.31	MILES	\$	150,000.00	\$	46,500.00
									,
			FINE GRADING	6,850	SY	\$	2.00	\$	13,700.00
			PAVEMENT WIDENING		SY			\$	_
			NEW PAVEMENT	7,230	SY	\$	45.00	\$	325,350.00
			PAVEMENT RESURFACING						
			SUBGRADE STABILIZATION	7,953	SY	\$	6.00	\$	47,718.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER	3,230	LF	\$	20.00	\$	64,600.00
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EDONOL CONTROL	0.05		_	44.600.00		42.22.00
			EROSION CONTROL	0.86	ACRES	\$	14,600.00	\$	12,556.00
			NEW RR SIGNAL WITH GATES		EA			\$	
			RUBBER RAILROAD CROSSING		EA			\$	-
	+		UPGRADE TRAFFIC SIGNAL		EA			\$	
			NEW TRAFFIC SIGNAL	1	EA	P	120,000.00	\$	120,000.00
			TRAFFIC CONTROL	0.31		-	20,000.00	\$	6,200.00
			THERMO AND MARKERS	0.31			15,000.00	\$	4,650.00
			THERWO AND MARKERS	0.51	MILLS	Φ	13,000.00	Ф	4,030.00
			BUILDING REMOVAL - LARGE	1	EA	\$	50,000.00	\$	50,000.00
			BUILDING REMOVAL - SMALL	1	EA	Ψ	30,000.00	\$	-
					23.1			Ψ.	
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	328,060.80

Contract Cost	\$ 1,089,084.80
<u>E. & C. 15%</u>	\$ 163,362.72
Construction Cost	\$ 1,252,447.52
ROW Cost 2.73 Acres	\$ 399,455.15
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 1,651,902.67

Property Aquistion Cost if not constructed \$ 7,146,844.56

Amount saved by construction service Road \$ 5,494,941.89

Additional Cost of Service Road \$ -

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
						_			
			CLEARING AND GRUBBING	0.9	AC	\$	20,000.00	\$	18,000.00
			UNCLASSIFIED EXCAVATION	3,050	CY	đ	5.00	ď	15,250.00
			BORROW	281	CY	\$	5.00	\$	1,405.00
			BURRUW	281	CY	Ф	3.00	\$	1,403.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.19	MILES	¢	150,000.00	\$	28,500.00
			DIVARINAGE NEW LOCATION - 2 LANE SHOOLDER SECTION	0.19	MILLS	Ф	150,000.00	Φ	28,300.00
			FINE GRADING	2,760	SY	\$	2.00	\$	5,520.00
			PAVEMENT WIDENING	2,700		Ψ	2.00	Ψ	2,020.00
			NEW PAVEMENT	2,310	SY	\$	45.00	\$	103,950.00
			PAVEMENT RESURFACING	1,120	SY	\$	12.00	\$	13,440.00
								Ť	-,
			SUBGRADE STABILIZATION	2,541	SY	\$	6.00	\$	15,246.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		LF			\$	-
			7" MONOLITHIC ISLANDS		LF			\$	-
			EROSION CONTROL	1.06	ACRES	\$	14,600.00	\$	15,476.00
						*	- 1,0000100	-	,.,
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.19	MILES	\$	20,000.00	\$	3,800.00
			THERMO AND MARKERS	0.19	MILES	\$	15,000.00	\$	2,850.00
			BUILDING REMOVAL - LARGE	1	EA	\$	50,000.00	\$	50,000.00
			BUILDING REMOVAL - SMALL	1	EA	Ф	30,000.00	\$	50,000.00
			BOILDING NEWOVAE - SWALE		LA			ψ	
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (15% STKS & OTIL)					\$	123,046.65
			INIOO. & INIOD (40/01 ONO HONAL)	<u> </u>	1			Φ	123,040.03

Contract Cost	-	396,483.65
E. & C. 15%	\$	59,472.55
Construction Cost	\$	455,956.20
ROW Cost 1.9 Acres	\$	208,198.31
Stream Impact Cost 0 LF		
Wetland Impact Cost 0 Acres		
Total Cost	2	664 154 51

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road \$ 7,146,844.56

\$ 6,482,690.05

S

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
	-		CLEARING AND GRUBBING	0.6	AC	Ф	20,000.00	d.	12,000.00
			CLEARING AND GRUBBING	0.0	AC	Þ	20,000.00	Þ	12,000.00
			UNCLASSIFIED EXCAVATION	545	CY	\$	5.00	\$	2,725.00
			BORROW	201	CY	\$	5.00	•	1,005.00
						Ť		-	-,
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.06	MILES	\$	150,000.00	\$	9,000.00
			FINE GRADING	1,240	SY	\$	2.00	\$	2,480.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	680	SY	\$	45.00	\$	30,600.00
			PAVEMENT RESURFACING		SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	748	SY	\$	6.00	\$	4,488.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.25	ACRES	¢	14,600.00	\$	3,650.00
			ENGOION CONTINUE	0.23	ACKLS	Ψ	14,000.00	Ψ	3,030.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.06	MILES	\$	20,000.00	\$	1,200.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
	1		UTILITY CONSTRUCTION		L			_	
	1		RELOCATE EXISTING WATER LINE		LF			\$	-
	1		RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
	+		MISC. & MOB (15% STNS & CTIE)	+				\$	30,216.60
			INIOO. & MOD (+3/01 ONOTIONAL)	1	<u> </u>			Φ	30,210.00

Contract Cost	\$	97,364.60
E. & C. 15%	\$	14,604.69
Construction Cost	\$	111,969.29
ROW Cost 0.23 Acres	\$	10,221.67
Stream Impact Cost 171 LF	\$	101,574.00
Wetland Impact Cost 0.14 Acres	\$	20,148.50
Total Cost	2	243 913 46

Property Aquistion Cost if not constructed	\$ 429,432.84
Amount saved by construction service Road	\$ 185,519.38
Additional Cost of Service Road	\$ _

	_	Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.4	AC	¢	20,000.00	\$	8,000.00
			CLLAINING AND GROBBING	0.4	AC	Φ	20,000.00	Ф	8,000.00
			UNCLASSIFIED EXCAVATION	1,337	CY	\$	5.00	\$	6,685.00
			BORROW	0	CY	\$	5.00	\$	-
						*		-	
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.06	MILES	\$	150,000.00	\$	9,000.00
			FINE GRADING	1,180	SY	\$	2.00	\$	2,360.00
			PAVEMENT WIDENING		SY			\$	=
			NEW PAVEMENT	720	SY	\$	45.00	\$	32,400.00
			PAVEMENT RESURFACING		SY			\$	-
						_			
			SUBGRADE STABILIZATION	792	SY	\$	6.00	\$	4,752.00
			ALCH CONODETE OLIDE AND OLITTED		T.F.			Ф	
			1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER	+	LF			\$	-
			4" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES	+	LF SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			7 MONOLITHIC ISLANDS		51			Ф	-
			EROSION CONTROL	0.27	ACRES	\$	14,600.00	\$	3,942.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.06	MILES	\$	20,000.00	\$	1,200.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE	+	LF			\$	
			RELOCATE EXISTING WATER LINE	+	LF			\$	
			THE COUNTY ENGLISHED OF THE FIRE		LI			Ψ	
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	30,752.55

Contract Cost	\$ 99,091.55
E. & C. 15%	\$ 14,863.73
Construction Cost	\$ 113,955.28
ROW Cost 0.11 Acres	\$ 11,576.66
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 125,531.94

\$ 3,542,209.92 \$ 3,416,677.98 \$ -

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	1.8	AC	\$	20,000.00	\$	36,000.00
						Ť	1,11111	,	/
			UNCLASSIFIED EXCAVATION	6,973	CY	\$	5.00	\$	34,865.00
			BORROW	508	CY	\$	5.00	\$	2,540.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.26	MILES	\$	150,000.00	\$	39,000.00
			ENIE OBARNIO				• • • •		10.750.00
			FINE GRADING	5,280	SY	\$	2.00	\$	10,560.00
			PAVEMENT WIDENING		SY	_		\$	
			NEW PAVEMENT	3,430	SY	\$	45.00	\$	154,350.00
			PAVEMENT RESURFACING		SY			\$	-
			SUBGRADE STABILIZATION	3,773	SY	\$	6.00	\$	22,638.00
			SUBGRADE STABILIZATION	3,773	31	Þ	0.00	Ф	22,038.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	_
			7" MONOLITHIC ISLANDS		SY			\$	_
								-	
			EROSION CONTROL	0.36	ACRES	\$	14,600.00	\$	5,256.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.26	MILES	\$	20,000.00	\$	5,200.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE	2	EA	\$	50,000.00	\$	100,000.00
			BUILDING REMOVAL - SMALL		EA			\$	_
			DODO (0.00)(5) D4 074 00 00	10		Φ.	22.50	Ф	225.00
			RCBC (2@6X5) P1 STA. 23+00.00	10	LF	\$	32.50	\$	325.00
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	
			RELOCATE EXISTING WATER LINE RELOCATE EXISTING SEWER LINE		LF	_		\$	-
			INCLOUATE EXISTING SEWER LINE		LF			Þ	-
			MISC. & MOB (15% STRS & UTIL)					\$	48.75
			MISC. & MOB (45% FUNCTIONAL)					\$	184,684.05
				1	<u> </u>			*	10.,001.00

Contract Cost	\$ 595,466.80
<u>E. & C. 15%</u>	\$ 89,320.02
Construction Cost	\$ 684,786.82
ROW Cost	\$ 596,960.21
Stream Impact Cost 57 LF	\$ 33,858.00
Wetland Impact Cost 0 Acres	
Total Cost	\$ 1,315,605.03

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road \$ 4,493,276.61

\$ 3,177,671.58

\$

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	2.1	AC	\$	20,000.00	\$	42,000.00
			UNCLASSIFIED EXCAVATION	1.677	CY	\$	5.00	\$	8,385.00
			BORROW	4,772	CY	\$	5.00	\$	23,860.00
			DDANNAGE NEW LOCATION OF ANE CHOULDED GESTION	0.25) III Eo	Φ.	1.50.000.00	Φ.	40.500.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.27	MILES	3	150,000.00	\$	40,500.00
			FINE GRADING	5,420	SY	\$	2.00	\$	10,840.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	2,880	SY	\$	45.00	\$	129,600.00
			PAVEMENT RESURFACING		SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	3,168	SY	\$	6.00	\$	19,008.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	_
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	_
			7" MONOLITHIC ISLANDS		SY			\$	=
			EROSION CONTROL	1.35	ACRES	\$	14,600.00	\$	19,710.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.27	MILES	\$	20,000.00	\$	5,400.00
			THERMO AND MARKERS		MILES		Í	\$	-
			BUILDING REMOVAL - LARGE		EA	_		\$	
			BUILDING REMOVAL - SMALL		EA			\$	
			HTH ITY CONSTRUCTION						
	-		UTILITY CONSTRUCTION			<u> </u>		Φ.	
	-		RELOCATE EXISTING WATER LINE		LF	<u> </u>		\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	134,686.35

Contract Cost	\$ 433,989.35
<u>E. & C. 15%</u>	\$ 65,098.40
Construction Cost	\$ 499,087.75
ROW Cost	\$ 370,512.08
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 869,599.83

Property Aquistion Cost if not constructed	\$ 851,725.18
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 17,874.65

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.5	AC	\$	20,000.00	\$	10,000.00
			UNIOL A COLFIED EVOAVATION	007	OT I	Ф	7.00	Φ.	4 425 00
			UNCLASSIFIED EXCAVATION	887	CY	\$	5.00	\$	4,435.00
			BORROW	0	CY	\$	5.00	\$	-
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.07	MILEC	ı o	150,000.00	\$	10,500.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.07	MILES	Ф	130,000.00	Ъ	10,300.00
			FINE GRADING	1.490	SY	\$	2.00	\$	2,980.00
			PAVEMENT WIDENING	1,100	SY	Ψ	2.00	\$	2,700.00
			NEW PAVEMENT	970	SY	\$	45.00	\$	43,650.00
			PAVEMENT RESURFACING	370	SY	Ψ	13.00	\$	-
								Ψ	
			SUBGRADE STABILIZATION	1,067	SY	\$	6.00	\$	6,402.00
									Í
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.34	ACRES	\$	14,600.00	\$	4,964.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	
			UPGRADE TRAFFIC SIGNAL		EA			\$	
			NEW TRAFFIC SIGNAL		EA			\$	
			TRAFFIC CONTROL	0.07		\$	20,000.00	\$	1,400.00
			THERMO AND MARKERS	0.07	MILES			\$	-
<u> </u>			BUILDING REMOVAL - LARGE		EA			\$	
	-		BUILDING REMOVAL - LARGE BUILDING REMOVAL - SMALL		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (45% FUNCTIONAL)					\$	37,948.95
			IMISC. & MOB (45% FUNCTIONAL)					\$	37,948.95

Contract Cost	\$ 122,279.95
E. & C. 15%	\$ 18,341.99
Construction Cost	\$ 140,621.94
ROW Cost 0.28 Acres	\$ 32,020.23
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 172,642.17

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road

\$ 3,542,209.92

\$ 3,369,567.75

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		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.90	AC	\$	20,000.00	¢	18,000.00
			CLEANING AND GROBBING	0.90	AC	Φ	20,000.00	Φ	18,000.00
			UNCLASSIFIED EXCAVATION	3,749	CY	\$	5.00	\$	18,745.00
			BORROW	0	CY	\$		\$	-
						*		7	
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.14	MILES	\$	150,000.00	\$	21,164.77
			FINE GRADING	2,450	SY	\$	2.00	\$	4,900.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	1,510	SY	\$	45.00	\$	67,950.00
			PAVEMENT RESURFACING	320	SY	\$	12.00	\$	3,840.00
			" AVERAGE ASPHALT WEDGING		SY			\$	_
			SUBGRADE STABILIZATION	1,661	SY	\$	6.00	\$	9,966.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	=
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	=
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	_
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.84	ACRES	\$	14,600.00	\$	12,264.00
			NEW RR SIGNAL WITH GATES		EA			\$	
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	
			TRAFFIC CONTROL	0.14	MILES	Φ.	20,000.00	\$	2,821.97
			THERMO AND MARKERS	0.14	MILES	φ	20,000.00	\$	2,021.97
			THERMO AND WARRENCE		WIILLS			Ψ	
			BUILDING REMOVAL - LARGE		EA			\$	_
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MICC 9 MOD (450) CTDC 9 LITH >					e e	
			MISC. & MOB (15% STRS & UTIL)					\$	71.042.20
			MISC. & MOB (45% FUNCTIONAL)					\$	71,843.28

Contract Cost	\$ 231,495.03
<u>E. & C. 15%</u>	\$ 34,724.25
Construction Cost	\$ 266,219.28
ROW Cost 1.38 ACRES	\$ 91,756.94
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 357,976.22

Property Aquistion Cost if not constructed

Amount saved by construction service Road

Additional Cost of Service Road

\$ 2,505,960.52

\$ 2,147,984.30

\$ -

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			OLEADING AND ODLIDDING	1.40	1.0	Φ.	20.000.00	Φ.	20,000,00
			CLEARING AND GRUBBING	1.40	AC	\$	20,000.00	3	28,000.00
			UNCLASSIFIED EXCAVATION	919	CY	\$	5.00	\$	4,595.00
			BORROW	6,310	CY	\$	5.00	\$	31,550.00
			BONNOW	0,310	CI	φ	3.00	φ	31,330.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.18	MILES	\$	150,000.00	\$	27,000.00
				0.10		*	,	4	
			FINE GRADING	3,570	SY	\$	2.00	\$	7,140.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	2,250	SY	\$	45.00	\$	101,250.00
			PAVEMENT RESURFACING		SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	2,475	SY	\$	6.00	\$	14,850.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	=
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	1.00	ACRES	\$	14,600.00	\$	14,600.00
			NEW PROJONAL WITH CATEO					Φ.	
	_		NEW RR SIGNAL WITH GATES		EA			\$	=
	_		RUBBER RAILROAD CROSSING		EA			\$	-
	-		UPGRADE TRAFFIC SIGNAL NEW TRAFFIC SIGNAL		EA EA			\$	-
			TRAFFIC CONTROL	0.18	MILES	¢.	20,000.00	\$	2 (00 00
			THERMO AND MARKERS	0.18	MILES	Þ	20,000.00	\$	3,600.00
			THERMO AND MARKERS	+	MILES			Þ	-
			BUILDING REMOVAL - LARGE		EA			\$	
	+		BUILDING REMOVAL - SMALL	1	EA	\$	20,000.00	\$	20,000.00
			DOLDHO NEW OWNEE	1	Lit	Ψ	20,000.00	Ψ	20,000.00
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MICC 9 MOD (459) CTDC 9 LITH)					e.	
			MISC. & MOB (15% STRS & UTIL) MISC. & MOB (45% FUNCTIONAL)	+				\$	112 ((2.25
			IMISC. & MOB (45% FUNCTIONAL)					\$	113,663.25

Contract Cost	\$	366,248.25
E. & C. 15%	\$	54,937.24
Construction Cost	\$	421,185.49
ROW Cost 2.00 ACRES	\$	210,728.85
Stream Impact Cost 0 LF		
Wetland Impact Cost 0 Acres		
Total Cost	\$	631,914.34
Property Aquistion Cost if not constructed	\$	631,914.34 301,273.62
	*	,

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.80	AC	\$	20,000.00	\$	16,000.00
			OLLANING AND GROBBING	0.00	AC	Ψ	20,000.00	Ψ	10,000.00
			UNCLASSIFIED EXCAVATION	1,916	CY	\$	5.00	\$	9,580.00
			BORROW	77	CY	\$	5.00	\$	385.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.13	MILES	\$	150,000.00	\$	19,500.00
			FINE GRADING	3,570	SY	\$	2.00	\$	7,140.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	1,450	SY	\$	45.00	\$	65,250.00
			PAVEMENT RESURFACING		SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	1,595	SY	\$	6.00	\$	9,570.00
			WALL CONCRETE OURD AND OUTTED						
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.70	ACRES	\$	14,600.00	\$	10,220.00
			NEW RR SIGNAL WITH GATES		EA			\$	
			RUBBER RAILROAD CROSSING		EA			\$	
			UPGRADE TRAFFIC SIGNAL		EA			\$	
			NEW TRAFFIC SIGNAL		EA			\$	
			TRAFFIC CONTROL	0.13		\$	20,000.00	\$	2,600.00
			THERMO AND MARKERS	0.13	MILES	Ψ	20,000.00	\$	-
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			LITH ITY CONCEDUCTION						
			UTILITY CONSTRUCTION		IF			Φ.	
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	63,110.25

Contract Cost	\$ 203,355.25
<u>E. & C. 15%</u>	\$ 30,503.29
Construction Cost	\$ 233,858.54
ROW Cost 1.48 ACRES	\$ 83,779.61
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 317,638.15
Property Aquistion Cost if not constructed	\$ 155,663.90
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 161,974.24

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEADING AND COLIDDING	1.30	4.0	•	20,000,00	e	26,000,00
			CLEARING AND GRUBBING	1.30	AC	\$	20,000.00	\$	26,000.00
			UNCLASSIFIED EXCAVATION	1,915	CY	\$	5.00	\$	9,575.00
			BORROW	413	CY	\$	5.00	\$	2,065.00
			Bornew	713	0.1	Ψ	3.00	Ψ	2,003.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.30	MILES	\$	150,000.00	\$	45,000.00
						Ť	,		- /
			FINE GRADING	3,970	SY	\$	2.00	\$	7,940.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	3,270	SY	\$	45.00	\$	147,150.00
			PAVEMENT RESURFACING		SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	3,597	SY	\$	6.00	\$	21,582.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EDOCION CONTROL	1.10	A CDEC	•	14 (00 00	e	17 220 00
			EROSION CONTROL	1.18	ACRES	\$	14,600.00	\$	17,228.00
			NEW RR SIGNAL WITH GATES		EA			\$	
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	_
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.30	MILES	\$	20,000.00	\$	6,000.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF		-	\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
								L_	
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	127,143.00

Contract Cost	\$ 409,683.00
<u>E. & C. 15%</u>	\$ 61,452.45
Construction Cost	\$ 471,135.45
ROW Cost 3.24 Acres	\$ 129,992.87
Stream Impact Cost 0 LF	
Wetland Impact Cost 0.36 Acres	\$ 30,222.75
Total Cost	\$ 631,351.07

Property Aquistion Cost if not constructed	\$ 625,830.38
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 5,520.69

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.20	AC	\$	20,000.00	¢	4,000.00
			CLEARING AND GROBBING	0.20	AC	Þ	20,000.00	Ф	4,000.00
			UNCLASSIFIED EXCAVATION	1,438	CY	\$	5.00	\$	7,190.00
			BORROW	0	CY	\$	5.00	\$	- 7,170.00
					0.1	Ψ	2.00	Ψ	
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.18	MILES	\$	150,000.00	\$	27,000.00
							·		·
			FINE GRADING	3,240	SY	\$	2.00	\$	6,480.00
			PAVEMENT WIDENING	330	SY	\$	50.00	\$	16,500.00
			NEW PAVEMENT	1,220	SY	\$	45.00	\$	54,900.00
			PAVEMENT RESURFACING	460	SY	\$	12.00	\$	5,520.00
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	1,705	SY	\$	6.00	\$	10,230.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.68	ACRES	2	14,600.00	\$	9,928.00
			ENGOIGN CONTROL	0.00	ACKES	Ψ	14,000.00	Ψ	7,720.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.18	MILES	\$	20,000.00	\$	3,600.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	=
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	_
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	65,406.60

Contract Cost	\$ 210,754.60
<u>E. & C. 15%</u>	\$ 31,613.19
Construction Cost	\$ 242,367.79
ROW Cost 1.44 Acres	\$ 78,705.26
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 321,073.05

Property Aquistion Cost if not constructed \$ 1,716,390.28

Amount saved by construction service Road \$ 1,395,317.23

Additional Cost of Service Road \$ -

	_	Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.3	AC	\$	20,000.00	2	6,000.00
			CLEANING AND GROBBING	0.5	AC	φ	20,000.00	φ	0,000.00
			UNCLASSIFIED EXCAVATION	468	CY	\$	5.00	\$	2,340.00
			BORROW	0	CY	\$	5.00	\$	-,
						Ť			
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.03	MILES	\$	150,000.00	\$	4,500.00
									-
			FINE GRADING	620	SY	\$	2.00	\$	1,240.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	340	SY	\$	45.00	\$	15,300.00
			PAVEMENT RESURFACING		SY			\$	-
			SUBGRADE STABILIZATION	374	SY	\$	6.00	\$	2,244.00
			U OU CONODETE OUDD AND OUTTED						
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS		SY SY			\$	-
			7 MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.11	ACRES	\$	14,600.00	\$	1,606.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	_
			UPGRADE TRAFFIC SIGNAL		EA			\$	_
			NEW TRAFFIC SIGNAL		EA			\$	_
			TRAFFIC CONTROL	0.03	MILES	\$	20,000.00	\$	600.00
			THERMO AND MARKERS		MILES	Ť	- /	\$	_
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	_
			RELOCATE EXISTING SEWER LINE		LF			\$	
			THE CONTROL ENGINEER CONTROL C		Li			Ψ	
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	15,223.50

Contract Cost	\$ 49,053.50
<u>E. & C. 15%</u>	\$ 7,358.03
Construction Cost	\$ 56,411.53
ROW Cost 0.13 Acres	\$ 4,766.18
Stream Impact Cost 115 LF	\$ 68,310.00
Wetland Impact Cost 0 Acres	
Total Cost	\$ 129,487.70

Property Aquistion Cost if not constructed	\$	440,061.40
Amount saved by construction service Road	\$	310,573.70
Additional Cost of Service Road	S	_

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	3.10	AC	\$	20,000.00	\$	62,000.00
			UNIOL A COLFIED EVOAVATION	2.056	OT 7	Φ.	7 .00	Φ.	1.4.200.00
			UNCLASSIFIED EXCAVATION	2,856	CY	\$	5.00		14,280.00
			BORROW	1,985	CY	\$	5.00	\$	9,925.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.40	MILES	¢ 1	50,000.00	\$	60,000.00
			DIVARIAGE NEW EGGATION- 2 EARL SHOOLDER SECTION	0.40	WIILES	φ1.	30,000.00	φ	00,000.00
			FINE GRADING	8,180	SY	\$	2.00	\$	16,360.00
			PAVEMENT WIDENING		SY			\$	
			NEW PAVEMENT	4,360	SY	\$	45.00	\$	196,200.00
			PAVEMENT RESURFACING	Í	SY			\$	
			. " AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	4,796	SY	\$	6.00	\$	28,776.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	1.99	ACRES	\$	14,600.00	\$	29,054.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING	-	EA			\$	
	-		UPGRADE TRAFFIC SIGNAL		EA			\$	
			NEW TRAFFIC SIGNAL		EA			\$	_
			TRAFFIC CONTROL	0.40		\$	20,000.00	\$	8,000.00
			THERMO AND MARKERS	0.40	MILES		20,000.00	\$	-
					THE LO			Ψ	
			BUILDING REMOVAL - LARGE		EA			\$	=
			BUILDING REMOVAL - SMALL		EA			\$	_
-									-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
	_		MICC 9 MOD (450) CTDC 9 LITTLY					r.	
			MISC. & MOB (15% STRS & UTIL)		1			\$	101.067.77
			MISC. & MOB (45% FUNCTIONAL)					\$	191,067.75

Contract Cost	\$ 615,662.75
<u>E. & C. 15%</u>	\$ 92,349.41
Construction Cost	\$ 708,012.16
ROW Cost 4.01 ACRES	\$ 32,849.23
Stream Impact Cost 0 LF	
Wetland Impact Cost 0.05 Acres	\$ 10,074.25
Total Cost	\$ 750,935.64
Property Aquistion Cost if not constructed	\$ 345,914.15
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 405,021.48

UNCLASSIFIED EXCAVATION 341 CY \$ 5.00 \$ 1,705 BORROW 108 CY \$ 5.00 \$ 1,705 BORROW 108 CY \$ 5.00 \$ \$ 5400 BORROW 108 BORROW			Sec							
UNCLASSIFIED EXCAVATION 341 CY \$ 5.00 \$ 1,705 BORROW 108 CY \$ 5.00 \$ 1,705 BORROW 108 CY \$ 5.00 \$ \$ 5400 BORROW 108 BORROW	Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
UNCLASSIFIED EXCAVATION 341 CY \$ 5.00 \$ 1,705 BORROW 108 CY \$ 5.00 \$ 1,705 BORROW 108 CY \$ 5.00 \$ \$ 5400 BORROW 108 BORROW				CLEARING AND GRUBBING	0.4	AC	\$	20,000,00	\$	8,000.00
BORROW				CELT WING THE CROBBING	0.1	710	Ψ	20,000.00	Ψ	0,000.00
DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION 0.03 MILES 150,000.00 \$ 4,500.00				UNCLASSIFIED EXCAVATION	341	CY	\$	5.00	\$	1,705.00
FINE GRADING				BORROW	108	CY	\$	5.00	\$	540.00
FINE GRADING										
PAVEMENT WIDENING				DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.03	MILES	\$	150,000.00	\$	4,500.00
PAVEMENT WIDENING										
NEW PAVEMENT					770		\$	2.00	•	1,540.00
PAVEMENT RESURFACING									4	-
SUBGRADE STABILIZATION					430		\$	45.00	•	19,350.00
11-6" CONCRETE CURB AND GUTTER				PAVEMENT RESURFACING		SY			\$	-
11-6" CONCRETE CURB AND GUTTER				CUDODADE CTADILIZATION	472	CM	ď	(00	Ф	2 020 00
2'-6" CONCRETE CURB AND GUTTER				SUBGRADE STABILIZATION	4/3	SY	Þ	6.00	3	2,838.00
2'-6" CONCRETE CURB AND GUTTER				1'-6" CONCRETE CLIRB AND CLITTER		IF			¢	
# CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS SY \$ EROSION CONTROL NEW RR SIGNAL WITH GATES RUBBER RAILROAD CROSSING UPGRADE TRAFFIC SIGNAL NEW TRAFFIC SIGNAL TRAFFIC CONTROL O.11 ACRES \$ 14,600.00 \$ 1,606.00 \$										
7" MONOLITHIC ISLANDS										
EROSION CONTROL										_
NEW RR SIGNAL WITH GATES										
RUBBER RAILROAD CROSSING				EROSION CONTROL	0.11	ACRES	\$	14,600.00	\$	1,606.00
RUBBER RAILROAD CROSSING								Í		
UPGRADE TRAFFIC SIGNAL						EA				-
NEW TRAFFIC SIGNAL				RUBBER RAILROAD CROSSING		EA			\$	-
TRAFFIC CONTROL				UPGRADE TRAFFIC SIGNAL		EA			\$	-
THERMO AND MARKERS				NEW TRAFFIC SIGNAL		EA			\$	-
BUILDING REMOVAL - LARGE					0.03	MILES	\$	20,000.00	\$	600.00
BUILDING REMOVAL - SMALL				THERMO AND MARKERS		MILES			\$	-
BUILDING REMOVAL - SMALL										
UTILITY CONSTRUCTION									_	-
RELOCATE EXISTING WATER LINE				BUILDING REMOVAL - SMALL		EA			\$	-
RELOCATE EXISTING WATER LINE				HTH ITY CONSTRUCTION		ļ				
RELOCATE EXISTING SEWER LINE LF \$ - MISC. & MOB (15% STRS & UTIL) \$ -					1	IE			¢	
MISC. & MOB (15% STRS & UTIL)					-		-		_	-
				INCLOUATE EXISTING SEVER LINE	1	LF			Ф	-
				MISC & MOB (15% STRS & UTIL)					\$	
				MISC. & MOB (45% FUNCTIONAL)	<u> </u>				\$	18,305.55

Contract Cost	\$ 58,984.55
<u>E. & C. 15%</u>	\$ 8,847.68
Construction Cost	\$ 67,832.23
ROW Cost 0.14 Acres	\$ 6,136.36
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 73,968.60

Property Aquistion Cost if not constructed	\$	481,033.91
Amount saved by construction service Road	\$	407,065.31
Additional Cost of Service Road	S	_

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.1	AC	\$	20,000.00	\$	2,000.00
			CELAKING AND GRODDING	0.1	AC	φ	20,000.00	Φ	2,000.00
			UNCLASSIFIED EXCAVATION	609	CY	\$	5.00	\$	3,045.00
			BORROW	19	CY	\$	5.00	\$	95.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.09	MILES	\$	150,000.00	\$	13,500.00
			FINE GRADING	1,860	SY	\$	2.00	\$	3,720.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	1,050	SY	\$	45.00	\$	47,250.00
			PAVEMENT RESURFACING		SY			\$	-
			OLIDODADE OTABILIZATION	1.155	CN	Ф	6.00	r)	(020 00
			SUBGRADE STABILIZATION	1,155	SY	\$	6.00	\$	6,930.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	_
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	_
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	_
			7" MONOLITHIC ISLANDS		SY			\$	-
			ERROSION CONTROL	0.35	ACRES	\$	14,600.00	\$	5,110.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL	0.00	EA	_	• • • • • • • •	\$	-
			TRAFFIC CONTROL	0.09	MILES	\$	20,000.00	\$	1,800.00
			THERMO AND MARKERS		MILES			\$	-
			L BUILDING REMOVAL - LARGE		EA			\$	
			BUILDING REMOVAL - SMALL		EA			\$	
			BOILDING NEWOVAE - OWALE		LA			Ψ	
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)				· · · · · · · · · · · · · · · · · · ·	\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	37,552.50

Contract Cost	\$ 121,002.50
E. & C. 15%	\$ 18,150.38
Construction Cost	\$ 139,152.88
ROW Cost 0.80 Acres	\$ 17,069.14
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 156,222.01

650,603.85

494,381.84

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road

Line Item	Das	Sec No.	Description	Otit	TI:4		Price		A 4
Line Item	Des	NO.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.2	AC	\$	20,000.00	\$	4,000.00
			CLL II (II VO 7 II VD OT CODDINO	0.2	110	Ψ	20,000.00	Ψ	1,000.00
			UNCLASSIFIED EXCAVATION	2,480	CY	\$	5.00	\$	12,400.00
			BORROW	103	CY	\$	5.00	\$	515.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.20	MILES	\$	150,000.00	\$	30,000.00
			FINE GRADING	3,870	SY	\$	2.00	\$	7,740.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	2,430	SY	\$	45.00	\$	109,350.00
			PAVEMENT RESURFACING		SY			\$	-
			OURORANG OTARIUSTATION	2 (72	~~~				4600000
			SUBGRADE STABILIZATION	2,673	SY	\$	6.00	\$	16,038.00
			1'-6" CONCRETE CURB AND GUTTER	1	LF			d.	
	-		2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE CORB AND GOTTER 4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	<u> </u>
			7" MONOLITHIC ISLANDS		SY			\$	
			7 MONOETTHO ISLANDS		51			Φ	
			EROSION CONTROL	1.01	ACRES	\$	14,600.00	\$	14,746.00
			Elicolott Coltition	1.01	Hereb	Ψ	1 1,000.00	Ψ	11,710.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.20	MILES	\$	20,000.00	\$	4,000.00
			THERMO AND MARKERS	0.20	MILES	\$	15,000.00	\$	3,000.00
							· · · · · ·		<u> </u>
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
	+		RELOCATE EXISTING WATER LINE		LF			\$	_
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	_
			MISC. & MOB (45% FUNCTIONAL)					\$	90,805.05

Contract Cost	\$ 292,594.05
<u>E. & C. 15%</u>	\$ 43,889.11
Construction Cost	\$ 336,483.16
ROW Cost	\$ 116,376.45
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 452,859.61

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road \$ 10,711,780.22

\$ 10,258,920.61

\$

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.0	AC			\$	
			CLEARING AND GRUDDING	0.0	AC			Þ	-
			UNCLASSIFIED EXCAVATION	1.009	CY	\$	5.00	\$	5,045.00
			BORROW	0	CY	\$	5.00		-
						Ψ	2.00	Ψ	
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.08	MILES	\$ 1	150,000.00	\$	12,000.00
							,		
			FINE GRADING	1,460	SY	\$	2.00	\$	2,920.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	880	SY	\$	45.00	\$	39,600.00
			PAVEMENT RESURFACING		SY			\$	-
			SUBGRADE STABILIZATION	968	SY	\$	6.00	\$	5,808.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	
			EDOCION CONTROL	0.42		Ф	14.600.00	Ф	6.270.00
			EROSION CONTROL	0.43	ACRES	\$	14,600.00	\$	6,278.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING	+	EA			\$	
			UPGRADE TRAFFIC SIGNAL		EA			\$	
			NEW TRAFFIC SIGNAL		EA			\$	
			TRAFFIC CONTROL	0.08		\$	20,000.00	\$	1,600.00
			THERMO AND MARKERS	0.00	MILES	Ψ	20,000.00	\$	-
			THE WIFE THE WIND WIND THE CONTROL OF THE CONTROL O		WIILES			Ψ	
			BUILDING REMOVAL - LARGE		EA			\$	_
			BUILDING REMOVAL - SMALL		EA			\$	_
								-	
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE	1	LF			\$	_
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	32,962.95

Contract Cost	\$ 106,213.95
<u>E. & C. 15%</u>	\$ 15,932.09
Construction Cost	\$ 122,146.04
ROW Cost 0.70 Acres	\$ 17,391.76
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 139,537.81
Property Aquistion Cost if not constructed	\$ 993,059.81
Amount saved by construction service Road	\$ 853,522.00

Additional Cost of Service Road

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
Line rem	Des	110.	Description	Quantity	Cint		THE		rimount
			CLEARING AND GRUBBING	0.1	AC	\$	20,000.00	\$	2,000.00
						Ť	.,	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			UNCLASSIFIED EXCAVATION	744	CY	\$	5.00	\$	3,720.00
			BORROW	0	CY	\$	5.00	\$	-
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.02	MILES	\$	150,000.00	\$	3,000.00
			FINE GRADING	520	SY	\$	2.00	\$	1,040.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	340	SY	\$	45.00	\$	15,300.00
			PAVEMENT RESURFACING		SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	374	SY	\$	6.00	\$	2,244.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.13	ACRES	\$	14,600.00	\$	1,898.00
			NEW PROJECT OF THE CATE OF THE					Φ.	
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA		20.000.00	\$	-
			TRAFFIC CONTROL	0.02			20,000.00	\$	400.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	_
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (15% 51NG & 011L)	+	1			\$	13,320.90
	ı		INIOO. WINOD (40/01 ONO HONAL)	1	<u> </u>			Φ	13,320.90

Contract Cost	\$ 42,922.90
<u>E. & C. 15%</u>	\$ 6,438.44
Construction Cost	\$ 49,361.34
ROW Cost 0.18 Acres	\$ 8,617.02
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 57,978.36

Property Aquistion Cost if not constructed	\$ 361,382.52
Amount saved by construction service Road	\$ 303,404.16
Additional Cost of Service Road	\$ _

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.20	AC	\$	20,000.00	\$	4,000.00
				0.20	- 110	Ψ	20,000.00	Ψ	.,000.00
			UNCLASSIFIED EXCAVATION	581	CY	\$	5.00	\$	2,905.00
			BORROW	1,729	CY	\$	5.00	\$	8,645.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.18	MILES	\$	150,000.00	\$	27,000.00
			FINE GRADING	3,620	SY	\$	2.00	\$	7,240.00
			PAVEMENT WIDENING	2,020	SY	-		\$	-,
			NEW PAVEMENT	1,940	SY	\$	45.00	\$	87,300.00
			PAVEMENT RESURFACING	Í	SY			\$	
			. " AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	2,135	SY	\$	6.00	\$	12,810.00
			ALCH CONODETE OLIDA AND CUTTED		LE			Φ.	
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES		LF SY			\$	-
	-		7" MONOLITHIC ISLANDS		SY			\$	-
			7 MONOLITHIC ISLANDS		51			Þ	-
			EROSION CONTROL	0.99	ACRES	\$	14,600.00	\$	14,454.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	_
			UPGRADE TRAFFIC SIGNAL		EA			\$	_
			NEW TRAFFIC SIGNAL		EA			\$	_
			TRAFFIC CONTROL	0.18		\$	20,000.00	\$	3,600.00
			THERMO AND MARKERS		MILES		,	\$	-
			BUILDING REMOVAL - LARGE	1	EA			\$	
			BUILDING REMOVAL - SMALL		EA			\$	
								-	
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)		+			\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	75,579.30

Contract Cost	\$ 243,533.30
<u>E. & C. 15%</u>	\$ 36,530.00
Construction Cost	\$ 280,063.30
ROW Cost 1.76 Acres	\$ 27,844.06
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 307,907.35
Property Aquistion Cost if not constructed	\$ 371,333.09
Amount saved by construction service Road	\$ 63,425.74
Additional Cost of Service Road	\$ -

T T(D	Sec No.	Don't die	0	TT .*4	D. t.		A
Line Item	Des	No.	Description	Quantity	Unit	Price	-	Amount
			CLEARING AND GRUBBING	0.00	AC		\$	_
				0.00	110		Ψ	
			UNCLASSIFIED EXCAVATION	5,075	CY	\$ 5.00	\$	25,375.00
			BORROW	264	CY	\$ 5.00		1,320.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.33	MILES	\$150,000.00	\$	49,500.0
			FINE GRADING	6,600	SY	\$ 2.00		13,200.0
			PAVEMENT WIDENING		SY		\$	-
			NEW PAVEMENT	3,510	SY	\$ 45.00		157,950.00
			PAVEMENT RESURFACING		SY		\$	-
			" AVERAGE ASPHALT WEDGING		SY		\$	-
			SUBGRADE STABILIZATION	3,865	SY	\$ 6.00	\$	23,190.00
			1'-6" CONCRETE CURB AND GUTTER		LF		\$	
			2'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			4" CONCRETE CORB AND GOTTER 4" CONCRETE SIDEWALK BOTH SIDES		SY		\$	
			7" MONOLITHIC ISLANDS		SY		\$	-
			7 MONOLITTIC IOLANDO		51		φ	
			EROSION CONTROL	1.83	ACRES	\$ 14,600.00	\$	26,718.00
			NEW RR SIGNAL WITH GATES		EA		\$	
			RUBBER RAILROAD CROSSING		EA		\$	
			UPGRADE TRAFFIC SIGNAL		EA		\$	_
			NEW TRAFFIC SIGNAL		EA		\$	_
			TRAFFIC CONTROL	0.33		\$ 20,000.00	\$	6,600.0
			THERMO AND MARKERS		MILES		\$	_
			BUILDING REMOVAL - LARGE		EA		\$	-
			BUILDING REMOVAL - SMALL		EA		\$	-
			UTILITY CONSTRUCTION					
			RELOCATE EXISTING WATER LINE		LF		\$	-
			RELOCATE EXISTING SEWER LINE		LF		\$	-
			MISC. & MOB (15% STRS & UTIL)				\$	-
			MISC. & MOB (45% FUNCTIONAL)				\$	136,733.85

	\$ 440,586.85
<u>E. & C. 15%</u>	\$ 66,088.03
Construction Cost	\$ 506,674.88
ROW Cost 4.29 Acres	\$ 100,342.00
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 607,016.88

Property Aquistion Cost if not constructed

Amount saved by construction service Road

Additional Cost of Service Road

\$ 1,578,340.81

\$ 971,323.93

\$ -

Line Item	Des	Sec No.	Description	Quantity	Unit	Price		Amount
			CLEARING AND GRUBBING	0.00	AC		\$	_
			UNCLASSIFIED EXCAVATION	744	CY	\$ 5.00	\$	3,720.00
			BORROW	643	CY	\$ 5.00	\$	3,215.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.12	MILES	\$ 150,000.00	\$	18,000.00
			FINE GRADING	1,590	SY	\$ 2.00	\$	3,180.00
			PAVEMENT WIDENING	ĺ	SY		\$	-
			NEW PAVEMENT	730	SY	\$ 45.00	\$	32,850.00
			PAVEMENT RESURFACING		SY		\$	
			. " AVERAGE ASPHALT WEDGING		SY		\$	-
			SUBGRADE STABILIZATION	805	SY	\$ 6.00	\$	4,830.00
			1'-6" CONCRETE CURB AND GUTTER		LF		\$	
	-		2'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY		\$	<u> </u>
			7" MONOLITHIC ISLANDS		SY		\$	<u> </u>
			EROSION CONTROL	0.56	ACRES	\$ 14,600.00	\$	8,176.00
			NEW RR SIGNAL WITH GATES		EA		\$	
			RUBBER RAILROAD CROSSING		EA		\$	
			UPGRADE TRAFFIC SIGNAL		EA		\$	
	-		NEW TRAFFIC SIGNAL		EA		\$	
			TRAFFIC CONTROL	0.12		\$ 20,000.00	\$	2,400.00
			THERMO AND MARKERS	0.12	MILES		\$	-
			BUILDING REMOVAL - LARGE		EA		\$	-
			BUILDING REMOVAL - SMALL		EA		\$	-
			UTILITY CONSTRUCTION					
			RELOCATE EXISTING WATER LINE		LF		\$	-
			RELOCATE EXISTING SEWER LINE		LF		\$	-
			MISC. & MOB (15% STRS & UTIL)	-			\$	
	+		MISC. & MOB (15% STRS & UTIL) MISC. & MOB (45% FUNCTIONAL)	-	-		\$	34,366.95
			INIOC. & MOD (40% FUNCTIONAL)		<u> </u>		Þ	34,300.93

Contract Cost	\$ 110,737.95
<u>E. & C. 15%</u>	\$ 16,610.69
Construction Cost	\$ 127,348.64
ROW Cost 0.80 ACRES	\$ 20,800.00
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 148,148.64

Property Aquistion Cost if not constructed

Amount saved by construction service Road

Additional Cost of Service Road

\$ 279,228.86

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
2	200	1,0,	2000.1	Quantity	Care		11100		
			CLEARING AND GRUBBING	1.70	AC	\$	20,000.00	\$	34,000.00
						-	,	-	2 1,000100
			UNCLASSIFIED EXCAVATION	8,993	CY	\$	5.00	\$	44,965.00
			BORROW	3,458	CY	\$	5.00	\$	17,290.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.53	MILES	\$	150,000.00	\$	79,500.00
			FINE GRADING	9,250	SY	\$	2.00	\$	18,500.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	5,650	SY	\$	45.00	\$	254,250.00
			PAVEMENT RESURFACING	1,960	SY	\$	12.00	\$	23,520.00
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	6,215	SY	\$	6.00	\$	37,290.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			RCBC (2@7X5) P1 STA. 25+96.56	57	LF	\$	32.50	\$	1,852.50
			EROSION CONTROL	3.07	ACRES	\$	14,600.00	\$	44,822.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	=
			UPGRADE TRAFFIC SIGNAL		EA			\$	=
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.71		_	20,000.00	\$	14,200.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA	<u> </u>		\$	-
			BUILDING REMOVAL - SMALL		EA			\$	=
					1				
			UTILITY CONSTRUCTION		<u> </u>	<u> </u>		_	
			RELOCATE EXISTING WATER LINE		LF	<u> </u>		\$	
			RELOCATE EXISTING SEWER LINE		LF	<u> </u>		\$	-
			MISC. & MOB (15% STRS & UTIL)			<u> </u>		\$	277.88
			MISC. & MOB (15% STRS & OTIL)		+	-		\$	255,751.65
			JIVIIGO. & IVIOD (4370 FUNCTIONAL)		<u> </u>	<u> </u>		Þ	233,731.03

Contract Cost	\$	826,219.03
E. & C. 15%	\$	123,932.85
Construction Cost	\$	950,151.88
ROW Cost 5.22 Acres	\$	98,277.25
Stream Impact Cost 195 LF	\$	115,830.00
Wetland Impact Cost 0.44 Acres	\$	40,297.00
Total Cost	2	1 204 556 12

Property Aquistion Cost if not constructed	\$	822,673.46
Amount saved by construction service Road	\$	_
Additional Cost of Service Road	S	381.882.67

T . T.	_	Sec	5		***		ъ.		
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.00	AC			\$	
			CLEARING AND GROBBING	0.00	AC			Ψ	
			UNCLASSIFIED EXCAVATION	2,100	CY	\$	5.00	\$	10,500.00
			BORROW	12	CY	\$	5.00	\$	60.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.15	MILES	\$ 1	50,000.00	\$	22,500.00
			FINE GRADING	1,800	SY	\$	2.00	\$	3,600.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	1,490	SY	\$	45.00	\$	67,050.00
			PAVEMENT RESURFACING	260	SY	\$	12.00	\$	3,120.00
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	1,640	SY	\$	6.00	\$	9,840.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
	+		7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.69	ACRES	\$	14,600.00	\$	10,074.00
			NEW RR SIGNAL WITH GATES		EA			\$	
			RUBBER RAILROAD CROSSING	+	EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	<u> </u>
			NEW TRAFFIC SIGNAL		EA			\$	
			TRAFFIC CONTROL	0.15		\$	20,000.00	\$	3,000.00
			THERMO AND MARKERS	0.13	MILES	Ψ	20,000.00	\$	3,000.00
					WILLS			Ψ	
			BUILDING REMOVAL - LARGE		EA			\$	_
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION	1					
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (45% FUNCTIONAL)					\$	58,384.80

Contract Cost	\$	188,128.80
<u>E. & C. 15%</u>	\$	28,219.32
Construction Cost	\$	216,348.12
ROW Cost 1.35 Acres	\$	38,879.90
Stream Impact Cost 0 LF		
Wetland Impact Cost 0 Acres		
Total Cost	\$	255,228.02
	\$	134,775.48
Property Aquistion Cost if not constructed	Ф	134,773.40
Property Aquistion Cost if not constructed Amount saved by construction service Road	\$	-

T' T		Sec	D	0 111	TT *4		ъ.		
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.10	AC	\$	20,000.00	\$	2,000.00
			OLEANING AND GROBBING	0.10	AC	Ψ	20,000.00	Ψ	2,000.00
			UNCLASSIFIED EXCAVATION	4,079	CY	\$	5.00	\$	20,395.00
			BORROW	238	CY	\$	5.00	\$	1,190.00
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	0.20	MILES	\$	150,000.00	\$	30,000.00
			FINE GRADING	3,310	SY	\$	2.00	\$	6,620.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	2,750	SY	\$	45.00	\$	123,750.00
			PAVEMENT RESURFACING	260	SY	\$	12.00	\$	3,120.00
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	3,025	SY	\$	6.00	\$	18,150.00
			WALL CONCRETE OF THE WALL CONTRE					•	
	_		1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	1.27	ACRES	\$	14,600.00	\$	18,542.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	_
			UPGRADE TRAFFIC SIGNAL		EA			\$	_
			NEW TRAFFIC SIGNAL		EA			\$	_
			TRAFFIC CONTROL	0.20	MILES	\$	20,000.00	\$	4,000.00
			THERMO AND MARKERS		MILES		<u> </u>	\$	
			DUM DINO DEMOVAL LABOR			•	5 0.000.00	Ф	50,000,00
	_		BUILDING REMOVAL - LARGE	1	EA	\$	50,000.00	\$	50,000.00
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (15% STNS & CTIE)		1			\$	124,995.15
		l	pinioo. a mob (40%) totac horans	ı	1	<u> </u>		Φ	144,993.13

Contract Cost	\$ 402,762.15
<u>E. & C. 15%</u>	\$ 60,414.32
Construction Cost	\$ 463,176.47
ROW Cost 2.50 Acres	\$ 159,951.26
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 623,127.73
Property Aquistion Cost if not constructed	\$ 218,319.08
Amount saved by construction service Road	\$, <u>-</u>
Additional Cost of Service Road	\$ 404,808.65

		Sec						
Line Item	Des	No.	Description	Quantity	Unit	Price		Amount
			CLEADING AND COURDING	17.00	4.0	£ 20 000 00	d.	240,000,00
	-		CLEARING AND GRUBBING	17.00	AC	\$ 20,000.00	\$	340,000.00
			UNCLASSIFIED EXCAVATION	159,000	CY	\$ 5.00	\$	795,000.00
			BORROW	45,782	CY	\$ 5.00		228,910.0
			BORROW	43,762	CI	\$ 3.00	Ф	228,910.0
			DRAINAGE NEW LOCATION- 2 LANE SHOULDER SECTION	1.41	MILES	\$150,000.00	\$	211,500.0
				1111	MILLES	\$120,000.00	Ψ.	211,000.0
			FINE GRADING	28,060	SY	\$ 2.00	\$	56,120.0
			PAVEMENT WIDENING		SY		\$	
			NEW PAVEMENT	14,990	SY	\$ 45.00	\$	674,550.0
			PAVEMENT RESURFACING		SY		\$	-
			" AVERAGE ASPHALT WEDGING		SY		\$	-
			SUBGRADE STABILIZATION	16,489	SY	\$ 6.00	\$	98,934.0
			1'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY		\$	-
			7" MONOLITHIC ISLANDS		SY		\$	-
			GUARDRAIL	1,700	LF	\$ 15.00		25,500.0
			GRAU-350	12	EA	\$ 1,800.00	\$	21,600.0
			EROSION CONTROL	13.72	ACRES	\$ 14,600.00	\$	200,312.0
	_		NEW RR SIGNAL WITH GATES		EA		\$	-
			RUBBER RAILROAD CROSSING		EA		\$	-
			UPGRADE TRAFFIC SIGNAL		EA		\$	-
			NEW TRAFFIC SIGNAL	1 41	EA	£ 20 000 00	\$	20 200 0
	-		TRAFFIC CONTROL THERMO AND MARKERS	1.41	MILES	\$ 20,000.00	\$	28,200.0
	-		THERMO AND MARKERS		MILES		\$	-
			WB MAINLINE EXTENDED OVER SWIFT CREEK (64'X54' TANGENT)	3,456	SF	\$ 115.00	\$	397,440.0
			EB MAINLINE EXTENDED OVER SWIFT CREEK (64/X54' TANGENT)	3,456	SF	\$ 115.00		397,440.0
			ED MAINEINE EXTENDED OVER OWN 1 CITER (04 X 34 TANGENT)	3,430	51	\$ 115.00	Ψ	377,440.0
	1		RCBC (2@6X5) P1 STA. 29+60.75	74	LF	\$ 32.50	\$	2,405.0
			RCBC (2@6X5) P1 STA. 47+72.45	85	LF	\$ 32.50		2,762.5
			1.050 (2.65) (1.10) (1.11)	05	Li	\$ 32.30	Ψ	2,702.5
			UTILITY CONSTRUCTION				1	
			RELOCATE EXISTING WATER LINE		LF		\$	-
			RELOCATE EXISTING SEWER LINE		LF		\$	
			MISC. & MOB (15% STRS & UTIL)				\$	360,021.3
			MISC. & MOB (45% FUNCTIONAL)				\$	1,206,281.7

Contract Cost	\$ 5,046,976.58
<u>E. & C. 15%</u>	\$ 757,046.49
Construction Cost	\$ 5,804,023.06
ROW Cost 19.86 Acres	\$ 281,452.56
Stream Impact Cost 1188 LF	\$ 705,672.00
Wetland Impact Cost 0.54 Acres	\$ 50,371.25
Total Cost	\$ 6,841,518.87

Property Aquistion Cost if not constructed	\$ 2,313,650.58
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 4,527,868,29

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			OLEADING AND OBLIDANG	0.0	. ~		• • • • • • • •	Φ.	10.000.00
			CLEARING AND GRUBBING	0.9	AC	\$	20,000.00	\$	18,000.00
			UNCLASSIFIED EXCAVATION	189	CY	\$	5.00	\$	945.00
			BORROW	5,339	CY	\$	5.00		26.695.00
			BOTTON	3,337		Ψ	3.00	Ψ	20,075.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.08	MILES	\$	150,000.00	\$	12,000.00
							,	-	,
			FINE GRADING	1,530	SY	\$	2.00	\$	3,060.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	810	SY	\$	45.00	\$	36,450.00
			PAVEMENT RESURFACING		SY			\$	-
			SUBGRADE STABILIZATION	891	SY	\$	6.00	\$	5,346.00
			ALON CONCERTS OURD AND CUTTER					Φ.	
			1'-6" CONCRETE CURB AND GUTTER	1	LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER	1	LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES	1	SY			\$	-
			7" MONOLITHIC ISLANDS	500	SY	Ф	15.00	\$	7.500.00
			GUARDRAIL GRAU-350	500	LF EA	\$	15.00 1,800.00	\$ \$	7,500.00 7,200.00
			GRAU-330	4	EA	Ф	1,800.00	Ф	7,200.00
			EROSION CONTROL	0.45	ACRES	\$	14,600.00	\$	6,570.00
			ENCOION CONTINGE	0.13	TORES	Ψ	11,000.00	Ψ	0,570.00
			NEW RR SIGNAL WITH GATES	1	EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	_
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	=
			TRAFFIC CONTROL	0.08	MILES	\$	20,000.00	\$	1,600.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
	-		LITH ITY CONSTRUCTION						
	+		UTILITY CONSTRUCTION RELOCATE EXISTING WATER LINE	1	LF	-		¢	
	+			1		_		\$	-
			RELOCATE EXISTING SEWER LINE		LF	_		\$	-
	1		MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (45% FUNCTIONAL)	†	1			\$	56,414.70
	1 1		[1	1			Ψ	20,111.70

Contract Cost	\$ 181,780.70
<u>E. & C. 15%</u>	\$ 27,267.11
Construction Cost	\$ 209,047.81
ROW Cost 0.31 Acres	\$ 3,966.08
Stream Impact Cost 141 LF	\$ 83,754.00
Wetland Impact Cost 0 Acres	
Total Cost	\$ 296,767.89

Property Aquistion Cost if not constructed	\$ 597,864.18
Amount saved by construction service Road	\$ 301,096.29
Additional Cost of Service Road	\$ _

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.2	AC	\$	20,000.00	\$	4,000.00
			OLLAKINO AND GROBBING	0.2	AC	Ψ	20,000.00	Ψ	4,000.00
			UNCLASSIFIED EXCAVATION	1,241	CY	\$	5.00	\$	6,205.00
			BORROW	1,547	CY	\$	5.00	\$	7,735.00
				ĺ					
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.17	MILES	\$	150,000.00	\$	25,500.00
			FINE GRADING	3,540	SY	\$	2.00	\$	7,080.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	2,300	SY	\$	45.00	\$	103,500.00
			PAVEMENT RESURFACING		SY			\$	-
			SUBGRADE STABILIZATION	2.520	SY	Ф	(00	d.	15 100 00
			SUBGRADE STABILIZATION	2,530	51	\$	6.00	\$	15,180.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	
			2'-6" CONCRETE CURB AND GUTTER	-	LF			\$	
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	_
			7" MONOLITHIC ISLANDS		SY			\$	-
			ERROSION CONTROL	0.85	ACRES	\$	14,600.00	\$	12,410.00
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.17	MILES	\$	20,000.00	\$	3,400.00
			THERMO AND MARKERS		MILES			\$	-
			DUIL DING DEMOVAL LABOR		Б.			Ф	
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			- 						
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	83,254.50

Contract Cost	\$ 268,264.50
<u>E. & C. 15%</u>	\$ 40,239.68
Construction Cost	\$ 308,504.18
ROW Cost 1.52 Acres	\$ 29,444.87
Stream Impact Cost 116 LF	\$ 68,904.00
Wetland Impact Cost 0.03 Acres	\$ 10,074.25
Total Cost	\$ 416,927.30

Property Aquistion Cost if not constructed \$ 1,459,178.32

Amount saved by construction service Road \$ 1,042,251.02

Additional Cost of Service Road \$ -

Line Item	Des	Sec No.	Description	Quantity	Unit	Price		Amount
			•					
			CLEARING AND GRUBBING	0.3	AC	\$ 20,000.00	\$	6,000.00
			UNCLASSIFIED EXCAVATION	267	CY	\$ 5.00	\$	1,335.00
			BORROW	53	CY	\$ 5.00	\$	265.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.02	MILES	\$150,000.00	\$	3,000.00
			FINE GRADING	400	SY	\$ 2.00	\$	800.00
			PAVEMENT WIDENING		SY		\$	-
			NEW PAVEMENT	260	SY	\$ 45.00	\$	11,700.00
			PAVEMENT RESURFACING		SY		\$	-
			SUBGRADE STABILIZATION	286	SY	\$ 6.00	\$	1,716.00
			1'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY		\$	-
			7" MONOLITHIC ISLANDS		SY		\$	-
			EROSION CONTROL	0.12	ACRES	\$ 14,600.00	\$	1,752.00
			NEW RR SIGNAL WITH GATES		EA		\$	-
			RUBBER RAILROAD CROSSING		EA		\$	-
			UPGRADE TRAFFIC SIGNAL	ļ	EA		\$	-
			NEW TRAFFIC SIGNAL		EA	* * * * * * * * * * * * * * * * * * *	\$	-
			TRAFFIC CONTROL	0.02		\$ 20,000.00	\$	400.00
			THERMO AND MARKERS		MILES		\$	-
			DUIL BING BENGVAL LABOR	ļ				
			BUILDING REMOVAL - LARGE	ļ	EA		\$	-
			BUILDING REMOVAL - SMALL	ļ	EA		\$	
	_							
	-		UTILITY CONSTRUCTION		1.5		Ι	
	-		RELOCATE EXISTING WATER LINE		LF		\$	-
	-		RELOCATE EXISTING SEWER LINE		LF		\$	-
	-		MICO A MOD (450) OTDO A LITIL		ļ		Φ.	
			MISC. & MOB (15% STRS & UTIL)				\$	12 125 (0
			MISC. & MOB (45% FUNCTIONAL)				\$	12,135.60

Contract Cost	\$ 39,103.60
<u>E. & C. 15%</u>	\$ 5,865.54
Construction Cost	\$ 44,969.14
ROW Cost 0.03 Acres	\$ 880.00
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 45,849.14

Property Aquistion Cost if not constructed \$ 1,459,178.32

Amount saved by construction service Road \$ 1,413,329.18

Additional Cost of Service Road \$ -

	_	Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	1.4	AC	\$	20,000.00	\$	28,000.00
			CLL II III O I II D O I I CD D II I C	1	710	Ψ	20,000.00	Ψ	20,000.00
			UNCLASSIFIED EXCAVATION	13,723	CY	\$	5.00	\$	68,615.00
			BORROW	201	CY	\$	5.00	\$	1,005.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.19	MILES	\$	150,000.00	\$	28,500.00
			FINE GRADING	2,220	SY	\$	2.00	•	4,440.00
			PAVEMENT WIDENING	170	SY	\$	50.00		8,500.00
			NEW PAVEMENT	1,670		\$	45.00		75,150.00
			PAVEMENT RESURFACING	610	SY	\$	12.00	\$	7,320.00
			OUDODADE OTABILITATION	4.00=					11.000.00
			SUBGRADE STABILIZATION	1,837	SY	\$	6.00	\$	11,022.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	<u> </u>
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	
			7" MONOLITHIC ISLANDS		SY			\$	
			7 MONOETTIIC IOLANDO		31			φ	<u>-</u>
			EROSION CONTROL	1.38	ACRES	\$	14,600.00	\$	20,148.00
						7	- 1,00000	4	
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.19	MILES	\$	20,000.00	\$	3,800.00
			THERMO AND MARKERS	0.19	MILES	\$	15,000.00	\$	2,850.00
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
	-		RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC & MOD (450/, STDS & LITH.)					¢	
	+		MISC. & MOB (15% STRS & UTIL) MISC. & MOB (45% FUNCTIONAL)					\$	116,707.50
			INIOC. & INIOD (43% FUNCTIONAL)	1				Э	110,/07.30

Contract Cost	\$ 376,057.50
E. & C. 15%	\$ 56,408.63
Construction Cost	\$ 432,466.13
ROW Cost 2.90 Acres	\$ 92,034.66
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 524,500.78

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road \$ 4,931,884.00 \$ 4,407,383.22

\$

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.6	AC	¢	20,000.00	¢	12,000.00
			CLEANING AND GRODDING	0.0	AC	φ	20,000.00	Φ	12,000.00
			UNCLASSIFIED EXCAVATION	354	CY	\$	5.00	\$	1,770.00
			BORROW	1,175	CY	\$	5.00	\$	5,875.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.08	MILES	\$	150,000.00	\$	12,000.00
			FINE GRADING	1,630	SY	\$	2.00	\$	3,260.00
			PAVEMENT WIDENING	010	SY	ф	45.00	\$	-
			NEW PAVEMENT	910	SY	\$	45.00	\$	40,950.00
			PAVEMENT RESURFACING		SY			\$	-
			SUBGRADE STABILIZATION	1,001	SY	\$	6.00	\$	6,006.00
									<u> </u>
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.35	ACRES	\$	14,600.00	\$	5,110.00
			NEW PROJONAL WITH CATEO					ф	
			NEW RR SIGNAL WITH GATES	1	EA			\$	-
			RUBBER RAILROAD CROSSING UPGRADE TRAFFIC SIGNAL	+	EA EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.08		¢	20,000.00	\$	1,600.00
			THERMO AND MARKERS	0.08	MILES		20,000.00	\$	1,000.00
			THERMO AND MARKERS		MILES			Ф	
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	_
			RELOCATE EXISTING SEWER LINE		LF	L		\$	<u> </u>
			MISC. & MOB (15% STRS & UTIL)	1				\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	39,856.95

Contract Cost	\$ 128,427.95
<u>E. & C. 15%</u>	\$ 19,264.19
Construction Cost	\$ 147,692.14
ROW Cost 0.56 Acres	\$ 12,600.00
Stream Impact Cost 156 LF	\$ 92,664.00
Wetland Impact Cost 0 Acres	
Total Cost	\$ 252,956.14

33,825.00	\$ Property Aquistion Cost if not constructed
-	\$ Amount saved by construction service Road
219,131.14	\$ Additional Cost of Service Road

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.8	AC	\$	20,000.00	\$	16,000.00
			LINCLACCIFIED EVOAVATION	2.695	CV	e.	5.00	e	10 425 00
			UNCLASSIFIED EXCAVATION BORROW	3,685	CY CY	\$	5.00	\$ \$	18,425.00
			BONNOW	0	CI	Φ	3.00	Φ	
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.17	MILES	\$ 1	50,000.00	\$	25,500.00
			FINE GRADING	2,960	SY	\$	2.00	\$	5,920.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	1,970	SY	\$	45.00	\$	88,650.00
			PAVEMENT RESURFACING		SY			\$	-
			SUBGRADE STABILIZATION	2,167	SY	\$	6.00	\$	13,002.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS	1	SY			\$	-
			EROSION CONTROL	0.44	ACRES	\$	14,600.00	\$	6,424.00
			NEW RR SIGNAL WITH GATES		Ε.			\$	
	+		RUBBER RAILROAD CROSSING		EA EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
	+		NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.17		•	20,000.00	\$	3,400.00
			THERMO AND MARKERS	0.17	MILES	Φ	20,000.00	\$	- 3,400.00
			DUIL DINO DEMOVAL. LADOE		Ε.			ф	
	-		BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	79,794.45

Contract Cost	\$ 257,115.45
<u>E. & C. 15%</u>	\$ 38,567.32
Construction Cost	\$ 295,682.77
ROW Cost 2.25 Acres	\$ 22,680.40
Stream Impact Cost 449 LF	\$ 266,706.00
Wetland Impact Cost 0.05 Acres	\$ 10,074.25
Total Cost	\$ 595,143.42

Property Aquistion Cost if not constructed	\$ 130,123.30
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 465,020,12

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	8.0	AC	\$	20,000.00	\$	160,000.00
			UNCLASSIFIED EXCAVATION	47,999	CY	\$	5.00	\$	239,995.00
			BORROW	24,648	CY	\$	5.00	\$	123,240.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.86	MILES	\$	150,000.00	\$	128,352.27
			FINE GRADING	11,400	SY	\$	2.00		22,800.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	9,410	SY	\$	45.00	\$	423,450.00
			PAVEMENT RESURFACING		SY			\$	-
			OUDODADE OTABILIZATION	10.251	CYT	Φ.	6.00	Φ.	(2.106.00
			SUBGRADE STABILIZATION	10,351	SY	\$	6.00	\$	62,106.00
			ALCH CONORETE OURR AND OUTTER		TE			Φ.	
			1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER		LF LF			\$ \$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			GUARDRAIL	800	LF	\$	15.00	\$	12,000.00
			GRAU-350	6	EA	\$	1,800.00		10,800.00
			OTAO-000	0	LA	Φ	1,000.00	Ψ	10,000.00
			EROSION CONTROL	6.51	ACRES	2	14,600.00	\$	95,046.00
			ENGOIGH GONTHOL	0.51	MCKLS	Ψ	14,000.00	Ψ	23,010.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	_
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.86	MILES	\$	20,000.00	\$	17,113.64
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	=
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (15% STNS & OTIL)					\$	582,706.31
	<u> </u>		INIOO. & NIOD (40/01 ONOTIONAL)	<u> </u>	1	<u> </u>		Ψ	302,700.31

Contract Cost	\$ 1,877,609.22
<u>E. & C. 15%</u>	\$ 281,641.38
Construction Cost	2,159,250.60
ROW Cost 12.90 Acres	\$ 207,651.92
Stream Impact Cost 386 LF	\$ 229,284.00
Wetland Impact Cost 0.05 Acres	\$ 10,074.25
Total Cost	\$ 2,606,260.77

Property Aquistion Cost if not constructed

Amount saved by construction service Road

Additional Cost of Service Road

S 3,324,196.13

717,935.36

**Toporty Aquistion Cost of Service Road

**Toport

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	1.2	AC	\$	20,000.00	\$	24,000.00
			UNCLASSIFIED EXCAVATION	2,354	CY	\$	5.00	2	11,770.00
			BORROW	7	CY	\$	5.00		35.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.25	MII FS	\$	150,000.00	\$	37,500.00
			BIV WITH CE NEW EGONTION ZENWE GROUDER GEOTION	0.23	WIILES	Ψ	150,000.00	Ψ	37,300.00
			FINE GRADING	2,750	SY	\$	2.00	\$	5,500.00
			PAVEMENT WIDENING		SY			\$	_
			NEW PAVEMENT	2,390	SY	\$	45.00	\$	107,550.00
			PAVEMENT RESURFACING	700	SY			\$	-
			SUBGRADE STABILIZATION	3.025	SY	\$	6.00	\$	18,150.00
			GATE RESET	1	EA	\$		\$	735.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	1.07	ACRES	\$	14,600.00	\$	15,622.00
			NEW RR SIGNAL WITH GATES		EA			\$	
			RUBBER RAILROAD CROSSING		EA			\$	_
			UPGRADE TRAFFIC SIGNAL		EA			\$	_
			NEW TRAFFIC SIGNAL		EA			\$	_
			TRAFFIC CONTROL	0.25	MILES	\$	20,000.00	\$	4,981.06
			THERMO AND MARKERS	0.25	MILES	\$	15,000.00	\$	3,750.00
			BUILDING REMOVAL - LARGE		EA			\$	_
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	_
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (15% STRS & OTIL)		1	-		\$	103,316.88
	<u> </u>		INIOO. & NIOD (40/01 ONOTIONAL)		<u> </u>	<u> </u>		Φ	103,310.00

Contract Cost	\$	332,909.94
<u>E. & C. 15%</u>	\$	49,936.49
Construction Cost	\$	382,846.43
ROW Cost 2.18 Acres	\$	42,992.99
Stream Impact Cost 0 LF		
Wetland Impact Cost 0 Acres		
Total Cost	\$	425,839.42
Property Aquistion Cost if not constructed	s	77,712.17
Amount saved by construction service Road	\$	-

\$ 348,127.25

Additional Cost of Service Road

T Tr	D	Sec	Donated	0 111	TI .*4	n.:		A
Line Item	Des	No.	Description	Quantity	Unit	Price		Amount
			CLEARING AND GRUBBING	2.3	AC	\$ 20,000.00	\$	46,000.00
				2.0	- 110	\$ 20,000.00	Ψ	.0,000.00
			UNCLASSIFIED EXCAVATION	25,173	CY	\$ 5.00	\$	125,865.00
			BORROW	0	CY	\$ 5.00	\$	-
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.25	MILES	\$150,000.00	\$	37,500.00
			FINE GRADING	4,790	SY	\$ 2.00	\$	9,580.00
			PAVEMENT WIDENING		SY		\$	-
			NEW PAVEMENT	3,380	SY	\$ 45.00	\$	152,100.00
			PAVEMENT RESURFACING	0	SY		\$	-
			CURORADE CTARILIZATION	2.710	CXZ	Φ (00	Ф	22 200 00
			SUBGRADE STABILIZATION	3,718	SY	\$ 6.00	\$	22,308.00
			1'-6" CONCRETE CURB AND GUTTER		LF		\$	
	+		2'-6" CONCRETE CURB AND GUTTER		LF		\$	
			4" CONCRETE SIDEWALK BOTH SIDES	+	SY		\$	
			7" MONOLITHIC ISLANDS		SY		\$	
			T MORE CONTROL AND		51		Ψ	
			EROSION CONTROL	1.51	ACRES	\$ 14,600.00	\$	22,046.00
								, in the second second
			NEW RR SIGNAL WITH GATES		EA		\$	-
			RUBBER RAILROAD CROSSING		EA		\$	-
			UPGRADE TRAFFIC SIGNAL		EA		\$	-
			NEW TRAFFIC SIGNAL		EA		\$	-
			TRAFFIC CONTROL	0.25	MILES	\$ 20,000.00	\$	5,000.00
			THERMO AND MARKERS	0.25	MILES	\$ 15,000.00	\$	3,750.00
			BUILDING REMOVAL - LARGE		EA		\$	-
			BUILDING REMOVAL - SMALL		EA		\$	-
			UTILITY CONSTRUCTION	-				
			RELOCATE EXISTING WATER LINE		LF		\$	
	+		RELOCATE EXISTING SEWER LINE		LF		\$	
	+		ALLES OF THE SERVENCE				Ψ	
			MISC. & MOB (15% STRS & UTIL)				\$	-
			MISC. & MOB (45% FUNCTIONAL)				\$	190,867.05

Contract Cost	\$ 615,016.05
<u>E. & C. 15%</u>	\$ 92,252.41
Construction Cost	\$ 707,268.46
ROW Cost 3.33 Acres	\$ 150,011.05
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 857,279.50

\$ 2,387,899.97

\$ 1,530,620.46

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road

Line Item	Des	Sec No.	Description	Quantity	Unit	Price		Amount
Line Item	Des	NO.	Description	Quantity	Unit	Frice		Amount
			CLEARING AND GRUBBING	0.1	AC	\$ 20,000.00	\$	2,000.00
			CLL II (II to 7 II to 5 I to 5	0.1	710	\$ 20,000.00	Ψ	2,000.00
			UNCLASSIFIED EXCAVATION	1.019	CY	\$ 5.00	\$	5,095.00
			BORROW	0	CY	\$ 5.00	\$	-
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.08	MILES	\$150,000.00	\$	12,000.00
			FINE GRADING	2,870	SY	\$ 2.00	\$	5,740.00
			PAVEMENT WIDENING		SY		\$	-
			NEW PAVEMENT	2,200	SY	\$ 45.00	\$	99,000.00
			PAVEMENT RESURFACING	0	SY		\$	-
			SUBGRADE STABILIZATION	2,420	SY	\$ 6.00	\$	14,520.00
			WALL CONCRETE OURD AND OUTTED					
			1'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS		SY SY		\$	-
			/* MONOLITHIC ISLANDS		SY		\$	-
			EROSION CONTROL	0.08	ACDES	\$ 14,600.00	\$	1,168.00
			ENOCION CONTROL	0.08	ACKES	\$ 14,000.00	φ	1,100.00
			NEW RR SIGNAL WITH GATES		EA		\$	_
			RUBBER RAILROAD CROSSING		EA		\$	_
			UPGRADE TRAFFIC SIGNAL		EA		\$	_
			NEW TRAFFIC SIGNAL		EA		\$	_
			TRAFFIC CONTROL	0.08	MILES	\$ 20,000.00	\$	1,600.00
			THERMO AND MARKERS	0.08		\$ 15,000.00	\$	1,200.00
						, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Ť	,
			BUILDING REMOVAL - LARGE		EA		\$	-
			BUILDING REMOVAL - SMALL		EA		\$	-
			UTILITY CONSTRUCTION					
			RELOCATE EXISTING WATER LINE		LF		\$	-
			RELOCATE EXISTING SEWER LINE		LF	-	\$	-
			MISC. & MOB (15% STRS & UTIL)				\$	-
			MISC. & MOB (45% FUNCTIONAL)		<u> </u>		\$	64,045.35

Contract Cost	\$ 206,368.35
E. & C. 15%	\$ 30,955.25
Construction Cost	\$ 237,323.60
ROW Cost 1.22 Acres	\$ 31,720.00
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 269,043.60

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road \$ 4,798,768.32

\$ 4,529,724.72

_	Sec	5		***		ъ.		
Des	No.	Description	Quantity	Unit		Price		Amount
		CLEARING AND GRUBBING	2.3	AC	\$	20,000.00	\$	46,000.00
						,		
		UNCLASSIFIED EXCAVATION	13,623	CY	\$	5.00	\$	68,115.00
		BORROW	1,564	CY	\$	5.00	\$	7,820.00
		DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.41	MILES	\$ 1	150,000.00	\$	61,500.00
		FINE GRADING	8 100	ÇV	¢	2.00	¢	16,380.00
			0,170		Ф	2.00		10,300.00
			4.360		\$	45.00	-	196,200.00
		PAVEMENT RESURFACING	0	SY	Ψ		\$	-
							,	
		SUBGRADE STABILIZATION	4,796	SY	\$	6.00	\$	28,776.00
		1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
								-
								=
		7" MONOLITHIC ISLANDS		SY			\$	-
		EROSION CONTROL	2.52	ACRES	\$	14,600.00	\$	36,792.00
				EA				-
								-
								_
			0.41		Ф	20,000,00	-	- 0.200.00
			0.41		\$	20,000.00		8,200.00
		THERMO AND MARKERS	1	MILES			\$	-
		BUILDING REMOVAL - LARGE		EA			\$	_
		BUILDING REMOVAL - SMALL		EA			\$	-
		UTILITY CONSTRUCTION	1					
		RELOCATE EXISTING WATER LINE		LF			\$	-
		RELOCATE EXISTING SEWER LINE		LF			\$	-
		MISC & MOB (15% STRS & UTIL)					\$	
							\$	211,402.35
	Des		Des No. Description CLEARING AND GRUBBING UNCLASSIFIED EXCAVATION BORROW DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION FINE GRADING PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL NEW RR SIGNAL WITH GATES RUBBER RAILROAD CROSSING UPGRADE TRAFFIC SIGNAL NEW TRAFFIC SIGNAL TRAFFIC CONTROL THERMO AND MARKERS BUILDING REMOVAL - LARGE BUILDING REMOVAL - SMALL UTILITY CONSTRUCTION RELOCATE EXISTING WATER LINE	Description Quantity CLEARING AND GRUBBING 2.3 UNCLASSIFIED EXCAVATION 13,623 BORROW 1,564 DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION 0.41 FINE GRADING 8,190 PAVEMENT WIDENING 4,360 PAVEMENT RESURFACING 0 SUBGRADE STABILIZATION 4,796 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL 2.52 NEW RR SIGNAL WITH GATES RUBBER RAILROAD CROSSING UPGRADE TRAFFIC SIGNAL NEW TRAFFIC SIGNAL NEW TRAFFIC SIGNAL TRAFFIC CONTROL 0.41 THERMO AND MARKERS BUILDING REMOVAL - LARGE BUILDING REMOVAL - SMALL UTILITY CONSTRUCTION RELOCATE SITING WATER LINE RELOCATE EXISTING WATER LINE RELOCATE EXISTING WATER LINE RELOCATE EXISTING SEWER LINE MISC. & MOB (15% STRS & UTIL)	Des No. Description Quantity Unit CLEARING AND GRUBBING 2.3 AC UNCLASSIFIED EXCAVATION 13,623 CY BORROW 1,564 CY DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION 0.41 MILES FINE GRADING 8,190 SY PAVEMENT WIDENING SY SY NEW PAVEMENT 4,360 SY PAVEMENT RESURFACING 0 SY SUBGRADE STABILIZATION 4,796 SY SUBGRADE STABILIZATION 4,796 SY 1'-6" CONCRETE CURB AND GUTTER LF LF 2'-6" CONCRETE CURB AND GUTTER LF LF 4" CONCRETE SIDEWALK BOTH SIDES SY 7" MONOLITHIC ISLANDS SY EROSION CONTROL 2.52 ACRES NEW RR SIGNAL WITH GATES EA RUBBER RAILROAD CROSSING EA UPGRADE TRAFFIC SIGNAL EA NEW TRAFFIC SIGNAL EA NEW TRAFFIC SIGNAL EA NEW TRAFFIC SIGNAL <td>Des No. Description Quantity Unit CLEARING AND GRUBBING 2.3 AC \$ UNCLASSIFIED EXCAVATION 13,623 CY \$ BORROW 1,564 CY \$ DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION 0.41 MILES \$ FINE GRADING 8,190 SY \$ PAVEMENT WIDENING SY SY \$ NEW PAVEMENT 4,360 SY \$ PAVEMENT RESURFACING 0 SY \$ SUBGRADE STABILIZATION 4,796 SY \$ 1'-6" CONCRETE CURB AND GUTTER LF LF LF 4" CONCRETE SIDEWALK BOTH SIDES SY SY 7" MONOLITHIC ISLANDS SY SY EROSION CONTROL 2.52 ACRES S NEW RR SIGNAL WITH GATES EA RUBBER RAILROAD CROSSING EA UPGRADE TRAFFIC SIGNAL EA NEW TRAFFIC SIGNAL EA NEW TRAFFIC SIGNAL EA</td> <td> Description</td> <td> Description</td>	Des No. Description Quantity Unit CLEARING AND GRUBBING 2.3 AC \$ UNCLASSIFIED EXCAVATION 13,623 CY \$ BORROW 1,564 CY \$ DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION 0.41 MILES \$ FINE GRADING 8,190 SY \$ PAVEMENT WIDENING SY SY \$ NEW PAVEMENT 4,360 SY \$ PAVEMENT RESURFACING 0 SY \$ SUBGRADE STABILIZATION 4,796 SY \$ 1'-6" CONCRETE CURB AND GUTTER LF LF LF 4" CONCRETE SIDEWALK BOTH SIDES SY SY 7" MONOLITHIC ISLANDS SY SY EROSION CONTROL 2.52 ACRES S NEW RR SIGNAL WITH GATES EA RUBBER RAILROAD CROSSING EA UPGRADE TRAFFIC SIGNAL EA NEW TRAFFIC SIGNAL EA NEW TRAFFIC SIGNAL EA	Description	Description

Contract Cost	\$	681,185.35
<u>E. & C. 15%</u>	\$	102,177.80
Construction Cost	\$	783,363.15
ROW Cost 3.69 Acres	\$	55,016.16
Stream Impact Cost	\$	162,756.00
Wetland Impact Cost 0 Acres		
Total Cost	\$	1,001,135.32
Property Aquistion Cost if not constructed	•	270 514 22

\$ 279,514.33	Property Aquistion Cost if not constructed
\$ -	Amount saved by construction service Road
\$ 721,620.98	Additional Cost of Service Road

Line Item Des No. Description CLEARING AND GRUBBING UNCLASSIFIED EXCAVATION BORROW DRAINAGE NEW LOCATION - 2 LANE SHO FINE GRADING PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	1,210	CY CY MILES	\$	20,000.00 5.00	\$ \$ \$	12,000.00 5,330.00
UNCLASSIFIED EXCAVATION BORROW DRAINAGE NEW LOCATION - 2 LANE SHO FINE GRADING PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	1,066 0 0 0ULDER SECTION 0.06 1,210	CY CY MILES	\$	5.00	\$	5,330.00
UNCLASSIFIED EXCAVATION BORROW DRAINAGE NEW LOCATION - 2 LANE SHO FINE GRADING PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	1,066 0 0 0ULDER SECTION 0.06 1,210	CY CY MILES	\$	5.00	\$	5,330.00
BORROW DRAINAGE NEW LOCATION - 2 LANE SHO FINE GRADING PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	0 0ULDER SECTION 0.06 1,210	CY			\$	•
DRAINAGE NEW LOCATION - 2 LANE SHO FINE GRADING PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	0.06 1,210 660	MILES	\$	150.000.00	-	•
FINE GRADING PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	1,210		\$	150,000,00	Φ.	
FINE GRADING PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	1,210		\$	150,000,00	ф	
PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	660	CV		,	\$	9,000.00
PAVEMENT WIDENING NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	660	CV				
NEW PAVEMENT PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL			\$	2.00	\$	2,420.00
PAVEMENT RESURFACING SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL		SY			\$	-
SUBGRADE STABILIZATION 1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL		SY	\$	45.00	\$	29,700.00
1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	0	SY			\$	
1'-6" CONCRETE CURB AND GUTTER 2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	726	CV	Ф	6.00	Ф	4.256.00
2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL	726	SY	\$	6.00	\$	4,356.00
2'-6" CONCRETE CURB AND GUTTER 4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL		LF			\$	_
4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS EROSION CONTROL		LF			\$	-
7" MONOLITHIC ISLANDS EROSION CONTROL		SY			\$	-
EROSION CONTROL		SY			\$	_
		51			Ψ	
	0.28	ACRES	\$	14,600.00	\$	4,088.00
			Ť	,,,,,,,,		, , , , , , , , , , , , , , , , , , , ,
NEW RR SIGNAL WITH GATES		EA			\$	-
RUBBER RAILROAD CROSSING		EA			\$	-
UPGRADE TRAFFIC SIGNAL		EA			\$	-
NEW TRAFFIC SIGNAL		EA			\$	-
TRAFFIC CONTROL	0.06	MILES	\$	20,000.00	\$	1,200.00
THERMO AND MARKERS		MILES			\$	-
		_			_	
BUILDING REMOVAL - LARGE		EA			\$	-
BUILDING REMOVAL - SMALL		EA			\$	-
UTILITY CONSTRUCTION		1				
RELOCATE EXISTING WATER LINE		LF			\$	
RELOCATE EXISTING WATER LINE RELOCATE EXISTING SEWER LINE		LF			\$	-
INCLOOM IL LAISTING SEWER LINE		LI			Φ	
MISC. & MOB (15% STRS & UTIL)					\$	
MISC. & MOB (45% FUNCTIONAL)					\$	30,642.30

Contract Cost	\$ 98,736.30
E. & C. 15%	\$ 14,810.45
Construction Cost	\$ 113,546.75
ROW Cost 0.59 Acres	\$ 12,617.44
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 126,164.19

\$ 2,351,180.00 \$ 2,225,015.81 \$ -

Property Aquistion Cost if not constructed Amount saved by construction service Road Additional Cost of Service Road

T. T.		Sec	D 1.1		***	ъ.		
Line Item	Des	No.	Description	Quantity	Unit	Price		Amount
			CLEARING AND GRUBBING	0.1	AC	\$ 20,000.00	\$	2,000.00
			UNCLASSIFIED EXCAVATION	2,559	CY	\$ 5.00	\$	12,795.00
			BORROW	728	CY	\$ 5.00	\$	3,640.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.15	MILES	\$ 150,000.00	\$	23,011.36
			FINE GRADING	2,000	SY	\$ 2.00	\$	4,000.00
	+		PAVEMENT WIDENING	2,000	SY	\$ 2.00	\$	4,000.00
			NEW PAVEMENT	1,680	SY	\$ 45.00	\$	75,600.00
			PAVEMENT RESURFACING	0	SY	\$ 45.00	\$	
			TAVEMENT NESON AGING	0	51		Ψ	
			SUBGRADE STABILIZATION	1,848	SY	\$ 6.00	\$	11,088.00
			1'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY		\$	=
			7" MONOLITHIC ISLANDS		SY		\$	-
			EROSION CONTROL	0.67	ACDEC	\$ 14,600.00	\$	9,782.00
			EROSION CONTROL	0.07	ACRES	\$ 14,000.00	Ф	9,782.00
			NEW RR SIGNAL WITH GATES		EA		\$	_
			RUBBER RAILROAD CROSSING		EA		\$	=
			UPGRADE TRAFFIC SIGNAL		EA		\$	-
			NEW TRAFFIC SIGNAL		EA		\$	-
			TRAFFIC CONTROL	0.15	MILES	\$ 20,000.00	\$	3,000.00
			THERMO AND MARKERS		MILES		\$	-
			BUILDING REMOVAL - LARGE		EA		\$	-
			BUILDING REMOVAL - SMALL		EA		\$	-
			UTILITY CONSTRUCTION					
			RELOCATE EXISTING WATER LINE		LF		\$	_
			RELOCATE EXISTING SEWER LINE		LF		\$	
							*	
			MISC. & MOB (15% STRS & UTIL)				\$	-
			MISC. & MOB (45% FUNCTIONAL)				\$	65,212.36

Contract Cost	\$ 210,128.73
<u>E. & C. 15%</u>	\$ 31,519.31
Construction Cost	\$ 241,648.04
ROW Cost 1.49 Acres	\$ 28,761.90
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 270,409.93
Property Aquistion Cost if not constructed	\$ 139,520.97
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 130,888.96

Line Item	Des	Sec No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	1.6	AC	¢ ^	20,000.00	\$	32,000.0
			CLEANING AND GROBBING	1.0	AC	Φ 2	20,000.00	Ф	32,000.
			UNCLASSIFIED EXCAVATION	1,825	CY	\$	5.00	\$	9,125.
			BORROW	127	CY	\$	5.00	\$	635.
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.17	MILES	\$ 15	50,000.00	\$	25,500.
			FINE GRADING	2,250	SY	\$	2.00	\$	4,500
	_		PAVEMENT WIDENING	1.000	SY	Ф	45.00	\$	04.600
			NEW PAVEMENT	1,880	SY	\$	45.00	\$	84,600
			PAVEMENT RESURFACING	0	SY			\$	
			SUBGRADE STABILIZATION	2.069	SY	\$	6.00	¢	12,408
			SUBGRADE STABILIZATION	2,068	51	Ф	0.00	\$	12,408
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	
			7" MONOLITHIC ISLANDS		SY			\$	
			EROSION CONTROL	0.82	ACRES	\$ 1	14,600.00	\$	11,972
			NEW RR SIGNAL WITH GATES		EA			\$	
			RUBBER RAILROAD CROSSING		EA			\$	
			UPGRADE TRAFFIC SIGNAL		EA			\$	
			NEW TRAFFIC SIGNAL	0.15	EA		• • • • • • • •	\$	2.400
			TRAFFIC CONTROL	0.17			20,000.00	\$	3,400
			THERMO AND MARKERS		MILES			\$	
			BUILDING REMOVAL - LARGE	1	EA			\$	
			BUILDING REMOVAL - SMALL		EA			\$	
			DOLDHO NEMOVIE OWNIEL		Lit			Ψ	
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	
			RELOCATE EXISTING SEWER LINE		LF			\$	
· · · · · · · · · · · · · · · · · · ·			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (45% FUNCTIONAL)					\$	82,863

Contract Cost	\$ 267,003.00
<u>E. & C. 15%</u>	\$ 40,050.45
Construction Cost	\$ 307,053.45
ROW Cost 1.92 Acres	\$ 38,220.09
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 345,273.54
Property Aquistion Cost if not constructed	\$ 307,884.35
Amount saved by construction service Road	\$ -

37,389.19

Additional Cost of Service Road

Line Item	Des	Sec No.	Description	Quantity	Unit	Price		Amount
Line Item	Des	110.	Description	Quantity	Unit	Trice		Amount
			CLEARING AND GRUBBING	0.0	AC		\$	
				0.0	110		Ψ	
			UNCLASSIFIED EXCAVATION	1,803	CY	\$ 5.00	\$	9,015.00
			BORROW	260	CY	\$ 5.00	\$	1,300.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.15	MILES	\$ 150,000.00	\$	22,500.00
			FINE GRADING	3,100	SY	\$ 2.00	\$	6,200.00
			PAVEMENT WIDENING		SY		\$	-
			NEW PAVEMENT	1,720	SY	\$ 45.00	\$	77,400.00
			PAVEMENT RESURFACING	0	SY		\$	-
			CURORARE CTARILIZATION	1.000	CX	Ф. СОО	Φ.	11 252 00
			SUBGRADE STABILIZATION	1,892	SY	\$ 6.00	\$	11,352.00
	-		1'-6" CONCRETE CURB AND GUTTER		LF		\$	
			2'-6" CONCRETE CURB AND GUTTER	+	LF		\$	-
			4" CONCRETE SIDEWALK BOTH SIDES	+	SY		\$	<u> </u>
	-		7" MONOLITHIC ISLANDS		SY		\$	
			7 MONGETTHO IGEANDO		51		Ψ	
			EROSION CONTROL	0.90	ACRES	\$ 14,600.00	\$	13,140.00
						, , , , , , , , , , , , , , , , , , , ,		
			NEW RR SIGNAL WITH GATES		EA		\$	-
			RUBBER RAILROAD CROSSING		EA		\$	-
			UPGRADE TRAFFIC SIGNAL		EA		\$	-
			NEW TRAFFIC SIGNAL		EA		\$	-
			TRAFFIC CONTROL	0.15	MILES	\$ 20,000.00	\$	3,000.00
			THERMO AND MARKERS		MILES		\$	=
			BUILDING REMOVAL - LARGE		EA		\$	-
			BUILDING REMOVAL - SMALL		EA		\$	-
			UTILITY CONSTRUCTION					
			RELOCATE EXISTING WATER LINE	1	LF		\$	=
	-		RELOCATE EXISTING SEWER LINE	1	LF		\$	-
			MICC 9 MOD (4F)(CTDC 9 LITH)	-	ļ		Φ.	
	-		MISC. & MOB (15% STRS & UTIL)				\$	
			MISC. & MOB (45% FUNCTIONAL)				\$	64,758.15

Contract Cost	\$	208,665.15	
<u>E. & C. 15%</u>	\$	31,299.77	
Construction Cost	\$	239,964.92	
ROW Cost 1.41 Acres	\$	29,311.62	
Stream Impact Cost 0 LF			
Wetland Impact Cost 0 Acres			
Total Cost	\$	269,276.54	
Property Aquistion Cost if not constructed	\$	87,758.55	
Property Aquistion Cost if not constructed Amount saved by construction service Road	\$ \$	87,758.55 -	
1 , 1		87,758.55 - 181,517.99	

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	1.0	AC	2	20,000.00	\$	20,000.00
			OLLAKING AND GROBBING	1.0	AC	Ψ	20,000.00	Ψ	20,000.00
			UNCLASSIFIED EXCAVATION	5,373	CY	\$	5.00	\$	26,865.00
			BORROW	3,505	CY	\$	5.00	\$	17,525.00
									·
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.28	MILES	\$	150,000.00	\$	42,000.00
			FINE GRADING	5,640	SY	\$	2.00	\$	11,280.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	2,980	SY	\$	45.00	\$	134,100.00
			PAVEMENT RESURFACING	0	SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	3,278	SY	\$	6.00	\$	19,668.00
								_	
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	=
			EROSION CONTROL	1.59	ACRES	\$	14,600.00	\$	23,214.00
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	
			UPGRADE TRAFFIC SIGNAL		EA			\$	
			NEW TRAFFIC SIGNAL		EA			\$	_
			TRAFFIC CONTROL	0.28	MILES	\$	20,000.00	\$	5,600.00
			THERMO AND MARKERS		MILES	Ť	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\$	-
								,	
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION			_			
			RELOCATE EXISTING WATER LINE	1	LF			\$	_
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
			MISC. & MOB (45% FUNCTIONAL)	<u> </u>		-		\$	135,113.40
	1		imos. a mos (1070 i orto riorate)	1	1			Ψ	133,113.70

Contract Cost	\$ 435,365.40
<u>E. & C. 15%</u>	\$ 65,304.81
Construction Cost	\$ 500,670.21
ROW Cost 3.07 Acres	\$ 71,291.42
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 571,961.63

Property Aquistion Cost if not constructed	\$	992,723.20
Amount saved by construction service Road	\$	420,761.57
Additional Cost of Service Road	S	_

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	3.5	AC	\$	20,000.00	\$	70,000.00
			CLE/II (III O / III D GI (OBBIII O	3.3	710	Ψ	20,000.00	Ψ	70,000.00
			UNCLASSIFIED EXCAVATION	13,259	CY	\$	5.00	\$	66,295.00
			BORROW	5,999	CY	\$	5.00	\$	29,995.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.38	MILES	\$	150,000.00	\$	57,000.00
			EINE ODADINO	=			• • • •	Φ.	4.7.000.00
			FINE GRADING	7,600	SY	\$	2.00	-	15,200.00
			PAVEMENT WIDENING NEW PAVEMENT	4.020	SY SY	¢.	45.00	\$	100,000,00
			PAVEMENT RESURFACING	4,020	SY	\$	45.00	\$	180,900.00
			. "AVERAGE ASPHALT WEDGING	0	SY			\$	-
			SUBGRADE STABILIZATION	4,422	SY	\$	6.00	\$	26,532.00
			CODOTABL CTABLEZATION	7,722	51	Ψ	0.00	Ψ	20,332.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	_
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	-
			7" MONOLITHIC ISLANDS		SY			\$	-
			ERROSION CONTROL	2.45	ACRES	\$	14,600.00	\$	35,770.00
			NEW DD CIONAL WITH CATEO					Ф	
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING UPGRADE TRAFFIC SIGNAL		EA EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.38		•	20,000.00	\$	7,600.00
			THERMO AND MARKERS	0.36	MILES	Φ	20,000.00	\$	7,000.00
					MILLES			φ	-
			BUILDING REMOVAL - LARGE		EA			\$	_
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	=
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MICC. 9 MOD (459) OTDO 9 LITES					Ф	
	\vdash		MISC. & MOB (15% STRS & UTIL) MISC. & MOB (45% FUNCTIONAL)					\$	220 101 40
			IVIIOC. & IVIOD (40% FUNCTIONAL)					3	220,181.40

Contract Cost	\$ 709,473.40
<u>E. & C. 15%</u>	\$ 106,421.01
Construction Cost	\$ 815,894.41
ROW Cost	\$ 81,573.99
Stream Impact Cost	\$ 273,834.00
Wetland Impact Cost 0 Acres	
Total Cost	\$ 1,171,302.40

Property Aquistion Cost if not constructed	\$ 556,808.82
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 614,493.58

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	2.3	AC	¢	20,000.00	\$	46,000.00
			CLEANING AND GROBBING	2.3	AC	Φ	20,000.00	φ	40,000.00
			UNCLASSIFIED EXCAVATION	1,259	CY	\$	5.00	\$	6,295.00
			BORROW	7,704	CY	\$	5.00	\$	38,520.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.34	MILES	\$:	150,000.00	\$	51,000.00
			FINE GRADING	6,740	SY	\$	2.00	\$	13,480.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	3,570	SY	\$	45.00	\$	160,650.00
			PAVEMENT RESURFACING	0	SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	3,927	SY	\$	6.00	\$	23,562.00
			WALLOW ON THE CURP AND CUTTED						
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS	1	SY SY			\$	-
	+		7 MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	1.75	ACRES	\$	14,600.00	\$	25,550.00
				11,70	TTOTAL	Ψ	1 1,000100	Ψ	20,00000
			NEW RR SIGNAL WITH GATES		EA			\$	_
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.34	MILES	\$	20,000.00	\$	6,800.00
			THERMO AND MARKERS		MILES			\$	=
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
	-		UTILITY CONSTRUCTION			-		Φ.	
	-		RELOCATE EXISTING WATER LINE		LF			\$	-
			RELOCATE EXISTING SEWER LINE		LF			\$	-
	1		MISC. & MOB (15% STRS & UTIL)					\$	
	+		MISC. & MOB (45% FUNCTIONAL)					\$	167,335.65
	1		IVIIOG. & IVIOD (40% FUNCTIONAL)	1	1			Ф	107,333.03

Contract Cost	\$ 539,192.65
<u>E. & C. 15%</u>	\$ 80,878.90
Construction Cost	\$ 620,071.55
ROW Cost 4.17 Acres	\$ 132,138.14
Stream Impact Cost 123 LF	\$ 73,062.00
Wetland Impact Cost 0.37 Acres	\$ 30,222.75
Total Cost	\$ 855,494.44

1,395,975.52	\$ Property Aquistion Cost if not constructed
540,481.08	\$ Amount saved by construction service Road
_	\$ Additional Cost of Service Road

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.9	AC	2	20,000.00	\$	18,000.00
			CLEANING AND GROBBING	0.9	AC	φ	20,000.00	Ψ	18,000.00
			UNCLASSIFIED EXCAVATION	2,316	CY	\$	5.00	\$	11,580.00
			BORROW	12	CY	\$		\$	60.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.09	MILES	\$	150,000.00	\$	14,204.55
			FINE GRADING	1,280	SY	\$	2.00	\$	2,560.00
			PAVEMENT WIDENING		SY			\$	-
			NEW PAVEMENT	1,050	SY	\$	45.00	\$	47,250.00
			PAVEMENT RESURFACING	0	SY			\$	-
			" AVERAGE ASPHALT WEDGING		SY			\$	-
			SUBGRADE STABILIZATION	1,155	SY	\$	6.00	\$	6,930.00
			ALON CONODETE CUED AND CUETED					Φ.	
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	-
			4" CONCRETE SIDEWALK BOTH SIDES 7" MONOLITHIC ISLANDS		SY SY			\$	-
			7 MONOLITHIC ISLANDS		SY			\$	-
			EROSION CONTROL	0.47	ACRES	\$	14,600.00	\$	6,862.00
			NEW RR SIGNAL WITH GATES		г.			d.	
			RUBBER RAILROAD CROSSING		EA EA			\$ \$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.09		•	20,000.00	\$	1,893.94
			THERMO AND MARKERS	0.09	MILES	Φ	20,000.00	\$	1,093.94
			THERWO AND WARRENS		MILLS			Φ	-
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE		LF			\$	_
			RELOCATE EXISTING SEWER LINE		LF			\$	-
			MISC. & MOB (15% STRS & UTIL)					\$	
	+ 1		MISC. & MOB (15% STNO & GTIL)					\$	49,203.22
	1		IMICO. WINDE (-10/01 ONOTHOLE)	ı	<u> </u>			Ψ	77,203.22

Contract Cost	\$ 158,543.70
<u>E. & C. 15%</u>	\$ 23,781.56
Construction Cost	\$ 182,325.26
ROW Cost 0.97 Acres	\$ 14,768.88
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 197,094.13

Property Aquistion Cost if not constructed	\$ 416,507.77
Amount saved by construction service Road	\$ 219,413.63
Additional Cost of Service Road	\$ _

		Sec							
Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
			CLEARING AND GRUBBING	0.5	AC	¢	20,000.00	\$	10,000.00
			CLEARING AND GROBBING	0.5	AC	Φ	20,000.00	φ	10,000.00
			UNCLASSIFIED EXCAVATION	45	CY	\$	5.00	\$	225.00
			BORROW	769	CY	\$	5.00	\$	3,845.00
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.06	MILES	\$	150,000.00	\$	9,261.36
			ENE OBABINO			_		_	
			FINE GRADING	840	SY	\$	2.00	\$	1,680.00
			PAVEMENT WIDENING	700	SY	Ф	45.00	\$	-
			NEW PAVEMENT	700	SY	\$	45.00	\$	31,500.00
			PAVEMENT RESURFACING	0	SY			\$	-
			AVERAGE ASPHALT WEDGING	770	SY	Ф	6.00	\$	-
			SUBGRADE STABILIZATION	770	SY	\$	6.00	\$	4,620.00
			1'-6" CONCRETE CURB AND GUTTER		LF			\$	_
			2'-6" CONCRETE CURB AND GUTTER		LF			\$	
			4" CONCRETE SIDEWALK BOTH SIDES		SY			\$	
			7" MONOLITHIC ISLANDS		SY			\$	
								Ψ	
			EROSION CONTROL	0.21	ACRES	\$	14,600.00	\$	3,066.00
							,		
			NEW RR SIGNAL WITH GATES		EA			\$	-
			RUBBER RAILROAD CROSSING		EA			\$	-
			UPGRADE TRAFFIC SIGNAL		EA			\$	-
			NEW TRAFFIC SIGNAL		EA			\$	-
			TRAFFIC CONTROL	0.06	MILES	\$	20,000.00	\$	1,200.00
			THERMO AND MARKERS		MILES			\$	-
			BUILDING REMOVAL - LARGE		EA			\$	-
			BUILDING REMOVAL - SMALL		EA			\$	-
			UTILITY CONSTRUCTION						
			RELOCATE EXISTING WATER LINE	†	LF			\$	
			RELOCATE EXISTING SEWER LINE		LF			\$	
								Ψ	
			MISC. & MOB (15% STRS & UTIL)	1				\$	-
			MISC. & MOB (45% FUNCTIONAL)					\$	29,428.81

Contract Cost	\$ 94,826.18
<u>E. & C. 15%</u>	\$ 14,223.93
Construction Cost	\$ 109,050.10
ROW Cost 0.55 Acres	\$ 10,838.92
Stream Impact Cost 102 LF	\$ 60,588.00
Wetland Impact Cost 0 Acres	
Total Cost	\$ 180,477.03

Property Aquistion Cost if not constructed	\$ 112,083.66
Amount saved by construction service Road	\$ -
Additional Cost of Service Road	\$ 68,393.37

CLEARING AND GRUBBING		_	Sec	D 1.1	0 11			ъ.		
UNCLASSIFIED EXCAVATION 307	Line Item	Des	No.	Description	Quantity	Unit		Price		Amount
UNCLASSIFIED EXCAVATION 307				CLEARING AND GRUBBING	0.5	AC	\$	20,000,00	\$	10,000.00
BORROW				CELT II III O TI II D CI COBBIITO	0.5	710	Ψ	20,000.00	Ψ	10,000.00
DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION 0.29 MILES \$ 150,000.00 \$ 43,3				UNCLASSIFIED EXCAVATION	307	CY	\$	5.00	\$	1,535.00
FINE GRADING				BORROW	9,414	CY	\$	5.00	\$	47,070.00
FINE GRADING										
PAVEMENT WIDENING				DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.29	MILES	\$ 1	150,000.00	\$	43,500.00
PAVEMENT WIDENING										
NEW PAVEMENT					5,220		\$	2.00	4	10,440.00
PAVEMENT RESURFACING									4	-
"AVERAGE ASPHALT WEDGING					,		\$	45.00	-	82,800.00
SUBGRADE STABILIZATION 2,030 SY \$ 6.00 \$ 12,1					1,330					-
1'-6" CONCRETE CURB AND GUTTER										-
2'-6" CONCRETE CURB AND GUTTER				SUBGRADE STABILIZATION	2,030	SY	\$	6.00	\$	12,180.00
2'-6" CONCRETE CURB AND GUTTER										
4" CONCRETE SIDEWALK BOTH SIDES SY \$ 7" MONOLITHIC ISLANDS SY \$ \$ \$ \$ \$ \$ \$ \$ \$										-
7" MONOLITHIC ISLANDS SY \$									-	-
BUILDING REMOVAL - LARGE BUILDING REMOVAL - SMALL LF S		_								-
NEW RR SIGNAL WITH GATES RUBBER RAILROAD CROSSING UPGRADE TRAFFIC SIGNAL NEW TRAFFIC SIGNAL TRAFFIC CONTROL THERMO AND MARKERS BUILDING REMOVAL - LARGE BUILDING REMOVAL - SMALL UTILITY CONSTRUCTION RELOCATE EXISTING WATER LINE NEW RR SIGNAL EA \$ 0.29 MILES 0.29 MILES 0.29 MILES EA \$ S EA \$ UTILITY CONSTRUCTION RELOCATE EXISTING WATER LINE				7" MONOLITHIC ISLANDS		SY			\$	-
RUBBER RAILROAD CROSSING				EROSION CONTROL	1.42	ACRES	\$	14,600.00	\$	20,732.00
RUBBER RAILROAD CROSSING				NEW RR SIGNAL WITH GATES		FΔ			\$	
UPGRADE TRAFFIC SIGNAL										_
NEW TRAFFIC SIGNAL										_
TRAFFIC CONTROL THERMO AND MARKERS BUILDING REMOVAL - LARGE BUILDING REMOVAL - SMALL EA S UTILITY CONSTRUCTION RELOCATE EXISTING WATER LINE 0.29 MILES \$ 20,000.00 \$ 5,8 MILES \$ LF \$										_
THERMO AND MARKERS MILES \$ BUILDING REMOVAL - LARGE EA \$ BUILDING REMOVAL - SMALL EA \$ UTILITY CONSTRUCTION LEF \$					0.29		\$	20,000,00	-	5,800.00
BUILDING REMOVAL - LARGE BUILDING REMOVAL - SMALL EA \$ UTILITY CONSTRUCTION RELOCATE EXISTING WATER LINE LF \$					V.=2			,,,,,,,,,,,		-
BUILDING REMOVAL - SMALL EA \$ UTILITY CONSTRUCTION RELOCATE EXISTING WATER LINE LF \$									-	
BUILDING REMOVAL - SMALL EA \$ UTILITY CONSTRUCTION RELOCATE EXISTING WATER LINE LF \$				BUILDING REMOVAL - LARGE		EA			\$	_
RELOCATE EXISTING WATER LINE LF \$						EA				-
RELOCATE EXISTING WATER LINE LF \$	·									
RELOCATE EXISTING SEWER LINE LF \$										-
				RELOCATE EXISTING SEWER LINE		LF			\$	-
MISC. & MOB (15% STRS & UTIL)				 MISC. & MOB (15% STRS & UTIL)					\$	_
		1								105,325.65

Contract Cost	\$ 339,382.65
<u>E. & C. 15%</u>	\$ 50,907.40
Construction Cost	\$ 390,290.05
ROW Cost 0.69 Acres	\$ 37,636.73
Stream Impact Cost 0 LF	
Wetland Impact Cost 0.01 Acres	\$ 10,074.25
Total Cost	\$ 438,001.03

Property Aquistion Cost if not constructed	\$ 487,930.00
Amount saved by construction service Road	\$ 49,928.97
Additional Cost of Service Road	\$ _

Line Item	Des	Sec No.	Description	Quantity	Unit	Price		Amount
Line Item	Des	INO.	Description	Quantity	Unit	Frice		Amount
			CLEARING AND GRUBBING	0.4	AC	\$ 20,000.00	\$	8,000.00
				***		4 ==,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	
			UNCLASSIFIED EXCAVATION	553	CY	\$ 5.00	\$	2,765.00
			BORROW	0	CY	\$ 5.00	\$	_
			DRAINAGE NEW LOCATION - 2 LANE SHOULDER SECTION	0.06	MILES	\$ 150,000.00	\$	8,252.90
			FINE GRADING	700	SY	\$ 2.00	\$	1,400.00
			PAVEMENT WIDENING		SY		\$	-
			NEW PAVEMENT	570	SY	\$ 45.00	\$	25,650.00
			PAVEMENT RESURFACING		SY		\$	-
			AVERAGE ASPHALT WEDGING		SY	.	\$	-
	_		SUBGRADE STABILIZATION	627	SY	\$ 6.00	\$	3,762.00
			1'-6" CONCRETE CURB AND GUTTER	1	LF		\$	
			2'-6" CONCRETE CURB AND GUTTER		LF		\$	-
			4" CONCRETE CORB AND GOTTER 4" CONCRETE SIDEWALK BOTH SIDES		SY		\$	
			7" MONOLITHIC ISLANDS		SY		\$	-
			MONOLITHIC ISLANDS		31		Ф	-
			EROSION CONTROL	0.20	ACRES	\$ 14,600.00	\$	2,920.00
			NEW RR SIGNAL WITH GATES		EA		\$	-
			RUBBER RAILROAD CROSSING		EA		\$	-
			UPGRADE TRAFFIC SIGNAL		EA		\$	-
			NEW TRAFFIC SIGNAL		EA		\$	-
			TRAFFIC CONTROL	0.06	MILES	\$ 20,000.00	\$	1,100.39
			THERMO AND MARKERS		MILES		\$	-
			BUILDING REMOVAL - LARGE		EA		\$	-
			BUILDING REMOVAL - SMALL		EA		\$	-
			UTILITY CONSTRUCTION					
	+		RELOCATE EXISTING WATER LINE	1	LF		\$	_
			RELOCATE EXISTING SEWER LINE		LF		\$	-
			MISC. & MOB (15% STRS & UTIL)				\$	-
			MISC. & MOB (45% FUNCTIONAL)				\$	24,232.63

Contract Cost	\$ 78,082.91
<u>E. & C. 15%</u>	\$ 11,712.44
Construction Cost	\$ 89,795.34
ROW Cost 1.47 Acres	\$ 84,213.26
Stream Impact Cost 0 LF	
Wetland Impact Cost 0 Acres	
Total Cost	\$ 174,008.60

Property Aquistion Cost if not constructed	\$ 300,037.43
Amount saved by construction service Road	\$ 126,028.82
Additional Cost of Service Road	\$ _