



600 E Front Street, Suite 104, PO Box 506
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traversetransportation.org



The mission of the Traverse Transportation Coordinating Initiative (TTCI) is to provide coordinated leadership and direction for the development and conduct of the continuing, cooperative & comprehensive transportation planning process for the Traverse City urban area.

TTCI Technical Committee Agenda
Thursday December 21, 1:30pm
Grand Traverse County Building
2nd floor training room
400 Boardman Ave, Traverse City, MI 49684

- 1) Roll Call
- 2) Approval of Agenda/Meeting Minutes
- 3) Old Business (*action requested*)
 - a) SE data review and approval
- 4) FY 2018 Work Programs
 - a) MDOT
 - i) Title VI plan
 - ii) Multi-modal infrastructure and facility inventory
 - b) TTCI
 - i) Master Street Plan
- 5) Member Comments/Discussion of future agenda items
 - a) Future meeting locations
- 6) Adjourn



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TTCI Technical Committee Meeting Minutes
Thursday October 19, 1:30pm
East Bay Township Hall
1965 N. Three Mile Road

- 1) Roll Call
 - See attached attendance sheet
- 2) Approval of Agenda/Meeting Minutes
 - Motion to accept with changes on the agenda to move 3b to under 4b : Shawn Winter, Acme Twp; Support, Rick Brown, East Bay Twp – motion passes.
- 3) Old Business
 - a) Business locator data review
 - o Expected to finalize the employment/business locator list by the end of the calendar year.
 - b) Access Management Assessment
 - o Mr. Woods presented the Draft AM Assessment to the committee for final input before presenting to the Board for formal approval. No major changes to the document, as presented, were suggested.
- 4) FY 2018 Work Programs
 - a) MDOT
 - i) Title VI plan
 - ii) Multi-modal infrastructure and facility inventory
 - iii) Continue evaluation of SE/EJ characteristics
 - Tom Doyle and Rob Maffeo from MDOT Lansing explained the FY18 work program and the individual work items and expected deliverables for each item.
 - o Mr. Doyle mentioned a “freight specialist” in Lansing that would be a good resource as part of the inventory phase.
 - Jim Johnson, LCRC and Tim Lodge, TC provided input on the challenges of the current federal funding levels for implementation projects in the urbanized area through the small urban program. Mr. Doyle mentioned that federal funding will likely double on an annual basis once TTCI reaches MPO status.
 - b) TTCI
 - i) Master Street Plan
 - John Sych, GTC presented an overview of the MSP, including it being a conceptual plan that achieves a balanced understanding of the land use/transportation connection. This includes looking at build-outs of each community and establishing which datasets would be effective to use as a means to quantify information.
 - Mr. Woods anticipates that a basic workable framework of the document will be presented at the December meeting.
 - The “Vital Streets Plan” in Grand Rapids was mentioned as a good reference
- 5) Member Comments/Discussion of future agenda items
 - a) Future meeting locations
 - The next Tech committee meeting will be 1:30pm, 12/21 at the GTC building 3rd floor training room.
- 6) Adjourn
 - 2:48 by Chair - Tim Lodge, TC

TTCI

Tech Comm meeting

10-19-17

Agency Name	Agency
Jim Carruthers	City of TC
Tim Lodge	City of Traverse City
Shawn Winter	Acme Twp
Jim Johnson	Leelanau CRC
JOHN SYCH	GT COUNTY PLANNING
Rick Brown	East Bay Twp
Tom Doyle	MDOT statewide planning
Robert Maffeo	MDOT - SUTA

Jurisdiction	2000 Census Pop	2007 Old Model Pop	2010 Census Pop	2015 Census Estimate Pop	2035 Old Model Pop	2045 Estimate Pop	2000 Census HUocc	2007 Old Model HUocc	2010 Census HUocc	2015 Census Estimate HUocc	2035 Old Model HUocc	2045 Estimate HUocc
Acme	4,361	4,511	4,375	4,676	10,044	forthcoming	n/a	1,736	1,806	1,932	3,863	forthcoming
Blair	6,455	6,448	8,209	8,666	10,278	forthcoming	n/a	2,359	2,926	3,084	3,765	forthcoming
East Bay	9,919	10,234	10,663	11,373	10,492	forthcoming	n/a	3,812	4,284	4,567	3,915	forthcoming
Elmwood	4,264	4,275	4,520	4,583	5,914	forthcoming	n/a	1,701	1,907	1,932	2,356	forthcoming
Garfield	13,841	16,908	16,256	16,890	25,895	forthcoming	n/a	7,017	7,367	7,643	10,745	forthcoming
Green Lake	5,009	5,332	5,784	6,162	6,287	forthcoming	n/a	2,067	2,289	2,436	2,437	forthcoming
Long Lake	7,648	7,907	8,662	9,245	7,943	forthcoming	n/a	2,836	3,318	3,542	2,847	forthcoming
Peninsula	5,265	5,456	5,433	5,797	5,513	forthcoming	n/a	2,208	2,354	2,510	2,232	forthcoming
Traverse City	14,532	14,192	14,674	15,218	16,527	forthcoming	n/a	6,292	6,675	6,917	7,313	forthcoming
White Water	2,438	2,878	2,597	2,771	2,899	forthcoming	n/a	1,045	1,012	1,078	1,054	forthcoming
Totals	73,732	78,141	81,173	85,381	101,792			31,073	33,938	35,641	40,527	
				for approval to use in new model						for approval to use in new model		
Pop = Population, Total												
HUocc = Living Quarters, Occupied Housing Units [excludes vacant housing]												
"2000 Census" & "2010 Census" refer to the Decennial Census sub-county totals - FOR COMPARISON PURPOSES ONLY												
"2007 Model" & "2035 Model" refer to the travel demand model developed for the Grand Vision - base year of 2007, and a horizon (forecasted) year of 2035 - FOR COMPARISON PURPOSES ONLY												
"2015 Census Estimate" refers to the Census ACS sub-county 2015 estimates - FOR APPROVAL TO USE IN NEW MODEL												

<u>Variable</u>	<u>Description</u>	<u>Calculated</u>
TazID_15	Traffic Analysis Zone Identification Number (see maps) - 2015 Base Year Model	
Jurisdiction	Township or City Jurisdiction	
PopTot_10	Total Population (All); 2010 Decennial Census	
PopTot_15	Total Population (All); 2015 Census Estimate	
Comments	TTCI / Local Agency Staff Comments	
GqTot_10	Total Population in Group Quarters; 2010 Decennial Census	
GqTot_15	Total Population in Group Quarters; 2015 Estimate (assumed values the same as 2010)	
Comments	TTCI / Local Agency Staff Comments	
PopNoGq_10	Population in Occupied Housing Units (aka Households); 2010 Decennial Census	PopTot - GqTot
PopNoGq_15	Population in Occupied Housing Units (aka Households); 2015 Estimate	PopTot - GqTot
Comments	TTCI / Local Agency Staff Comments	
HuOcc_10	Occupied Housing Units; 2010 Decennial Census	
HuOcc_15	Occupied Housing Units; 2015 Census Estimate	
Comments	TTCI / Local Agency Staff Comments	
PopToHhRatio		PopNoGq / HuOcc

Ttci_TazNumbering

Used "Range TAZ Numbering" methodology									
Seq No	Jurisdiction	Jurisdiction Type	TAZ Range	TAZ Numbers Used	TAZ Numbers Reserved	Number of Prelim TAZs		PopTot	HUocc
1	Traverse City	City	1-99	1-60	61-99	60		14,674	6,688
2	Garfield	Township	100-199	100-134	135-199	35		16,256	7,354
3	East Bay	Township	200-249	200-213	214-249	14		10,663	4,284
4	Long Lake	Township	250-299	250-260	261-299	11		8,662	3,318
5	Blair	Township	300-349	300-307	308-349	8		8,209	2,926
6	Green Lake	Township	350-399	350-356	357-399	7		5,784	2,289
7	Peninsula	Township	400-449	400-406	407-449	7		5,433	2,354
8	Elmwood	Township	450-499	450-457	458-499	8		4,520	1,907
9	Acme	Township	500-549	500-508	509-649	9		4,375	1,806
10	White Water	Township	550-599	550-554	555-599	5		2,597	1,012
11	External Stations		900-999	900-919	920-999	20			
						184		81,173	33,938

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
500	Acme	2,744	2,934		5	5		2,739	2,929		1,069	1,143		2.56
501	Acme	503	538		0	0		503	538		213	228		2.36
502	Acme	278	297		0	0		278	297		99	106		2.81
503	Acme	252	269		0	0		252	269		153	164		1.65
504	Acme	237	253		0	0		237	253		98	105		2.42
505	Acme	223	238		0	0		223	238		124	133		1.80
506	Acme	87	93		0	0		87	93		30	32		2.90
507	Acme	31	33		0	0		31	33		14	15		2.21
508	Acme	20	21		0	0		20	21		6	6		3.33
	Subtotals	4,375	4,676		5	5		4,370	4,671		1,806	1,932		2.42

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
300	Blair	3,443	3,636		11	11		3,432	3,625		1,240	1,307		2.77
301	Blair	1,266	1,336		0	0		1,266	1,336		463	488		2.73
302	Blair	1,190	1,256		40	40		1,150	1,216		359	378		3.20
303	Blair	672	709		0	0		672	709		259	273		2.59
304	Blair	648	684		0	0		648	684		249	262		2.60
305	Blair	607	641		0	0		607	641		220	232		2.76
306	Blair	231	244		0	0		231	244		89	94		2.60
307	Blair	152	160		0	0		152	160		47	50		3.23
	Subtotals	8,209	8,666		51	51		8,158	8,615		2,926	3,084		2.79

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
200	East Bay	2,983	3,181		14	14		2,969	3,167		1,202	1,281		2.47
201	East Bay	1,894	2,020		0	0		1,894	2,020		771	822		2.46
202	East Bay	1,283	1,368		0	0		1,283	1,368		472	503		2.72
203	East Bay	740	789		0	0		740	789		242	258		3.06
204	East Bay	671	716		6	6		665	710		240	256		2.77
205	East Bay	624	666		12	12		612	654		281	300		2.18
206	East Bay	599	639		6	6		593	633		227	242		2.61
207	East Bay	388	414		0	0		388	414		165	176		2.35
208	East Bay	384	410		0	0		384	410		200	213		1.92
209	East Bay	329	351		0	0		329	351		159	170		2.07
210	East Bay	321	342		0	0		321	342		137	146		2.34
211	East Bay	233	249		0	0		233	249		97	103		2.40
212	East Bay	136	145		0	0		136	145		56	60		2.43
213	East Bay	78	83		0	0		78	83		35	37		2.23
	Subtotals	10,663	11,373		38	38		10,625	11,335		4,284	4,567		2.48

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
450	Elmwood	1,198	1,214		0	0		1,198	1,214		537	545		2.23
451	Elmwood	1,006	1,020		0	0		1,006	1,020		412	417		2.44
452	Elmwood	699	709		0	0		699	709		253	256		2.76
453	Elmwood	475	482		5	5		470	477		231	234		2.03
454	Elmwood	518	525		53	53		465	472		237	240		1.96
455	Elmwood	327	332		0	0		327	332		128	130		2.55
456	Elmwood	206	209		0	0		206	209		75	76		2.75
457	Elmwood	91	92		0	0		91	92		34	34		2.68
	Subtotals	4,520	4,583		58	58		4,462	4,525		1,907	1,932		2.34

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
100	Garfield	1,709	1,775		45	45		1,664	1,730		647	670		2.57
101	Garfield	1,732	1,799		100	100		1,632	1,699		817	848		2.00
102	Garfield	1,398	1,452		0	0		1,398	1,452		746	774		1.87
103	Garfield	1,005	1,044		0	0		1,005	1,044		406	421		2.48
104	Garfield	945	982		0	0		945	982		405	420		2.33
105	Garfield	867	901		0	0		867	901		412	427		2.10
106	Garfield	857	890		0	0		857	890		334	347		2.57
107	Garfield	797	828		85	85		712	743		398	413		1.79
108	Garfield	682	709		0	0		682	709		289	300		2.36
109	Garfield	649	674		0	0		649	674		257	267		2.53
110	Garfield	612	636		0	0		612	636		361	375		1.70
111	Garfield	509	529		0	0		509	529		323	335		1.58
112	Garfield	501	521		0	0		501	521		379	393		1.32
113	Garfield	454	472		16	16		438	456		149	155		2.94
114	Garfield	427	444		10	10		417	434		203	211		2.05
115	Garfield	413	429		17	17		396	412		148	154		2.68
116	Garfield	398	414		5	5		393	409		167	173		2.35
117	Garfield	378	393		0	0		378	393		144	149		2.63
118	Garfield	373	388		0	0		373	388		121	126		3.08
119	Garfield	317	329		0	0		317	329		128	133		2.48
120	Garfield	267	277		0	0		267	277		100	104		2.67
121	Garfield	266	276		0	0		266	276		126	131		2.11
122	Garfield	224	233		0	0		224	233		127	132		1.76
123	Garfield	177	184		0	0		177	184		79	82		2.24
124	Garfield	110	114		0	0		110	114		39	40		2.82
125	Garfield	93	97		8	8		85	89		27	28		3.15
126	Garfield	20	21		0	0		20	21		7	7		2.86
127	Garfield	17	18		0	0		17	18		7	7		2.43
128	Garfield	7	7		0	0		7	7		3	3		2.33
129	Garfield	7	7		0	0		7	7		1	1		7.00
130	Garfield	43	45		38	38		5	7		2	2		2.50
131	Garfield	1	1		0	0		1	1		1	1		1.00
132	Garfield	1	1		0	0		1	1		1	1		1.00
133	Garfield	0	0		0	0		0	0		0	0		0.00
134	Garfield	0	0		0	0		0	0		0	0		0.00
Subtotals		16,256	16,890		324	324		15,932	16,566		7,354	7,630		2.17

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
350	Green Lake	1,485	1,582		0	0		1,485	1,582		584	621		2.54
351	Green Lake	1,451	1,546		0	0		1,451	1,546		559	595		2.60
352	Green Lake	1,108	1,180		12	12		1,096	1,168		466	496		2.35
353	Green Lake	944	1,006		0	0		944	1,006		345	367		2.74
354	Green Lake	501	534		0	0		501	534		226	241		2.22
355	Green Lake	215	229		0	0		215	229		82	87		2.62
356	Green Lake	80	85		0	0		80	85		27	29		2.96
	Subtotals	5,784	6,162		12	12		5,772	6,150		2,289	2,436		2.52

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
250	Long Lake	1,383	1,475		0	0		1,383	1,475		480	512		2.88
251	Long Lake	1,216	1,298		0	0		1,216	1,298		464	495		2.62
252	Long Lake	1,042	1,112		12	12		1,030	1,100		406	433		2.54
253	Long Lake	1,010	1,078		0	0		1,010	1,078		437	467		2.31
254	Long Lake	810	865		0	0		810	865		292	312		2.77
255	Long Lake	723	772		0	0		723	772		282	301		2.56
256	Long Lake	689	735		6	6		683	729		257	274		2.66
257	Long Lake	664	709		0	0		664	709		268	286		2.48
258	Long Lake	606	647		5	5		601	642		231	247		2.60
259	Long Lake	266	284		0	0		266	284		104	111		2.56
260	Long Lake	253	270		6	6		247	264		97	104		2.55
	Subtotals	8,662	9,245		29	29		8,633	9,216		3,318	3,542		2.60

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
400	Peninsula	1,472	1,570		0	0		1,472	1,570		653	697		2.25
401	Peninsula	1,234	1,317		0	0		1,234	1,317		518	552		2.38
402	Peninsula	882	941		0	0		882	941		365	389		2.42
403	Peninsula	747	797		6	6		741	791		348	371		2.13
404	Peninsula	563	601		0	0		563	601		243	259		2.32
405	Peninsula	411	439		0	0		411	439		175	187		2.35
406	Peninsula	124	132		0	0		124	132		52	55		2.38
	Subtotals	5,433	5,797		6	6		5,427	5,791		2,354	2,510		2.31

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
1	Traverse City	1,375	1,426		51	51		1,324	1,375		618	641		2.14
2	Traverse City	1,143	1,185		20	20		1,123	1,165		587	608		1.91
3	Traverse City	1,078	1,118		0	0		1,078	1,118		428	443		2.52
4	Traverse City	771	800		0	0		771	800		344	356		2.24
5	Traverse City	756	784		5	5		751	779		349	362		2.15
6	Traverse City	733	760		0	0		733	760		319	331		2.30
7	Traverse City	626	649		0	0		626	649		297	308		2.11
8	Traverse City	581	603		3	3		578	600		312	323		1.85
9	Traverse City	522	541		0	0		522	541		232	240		2.25
10	Traverse City	494	512		38	38		456	474		208	216		2.19
11	Traverse City	442	458		0	0		442	458		227	235		1.95
12	Traverse City	403	418		6	6		397	412		176	182		2.26
13	Traverse City	371	385		0	0		371	385		180	187		2.06
14	Traverse City	335	347		0	0		335	347		160	166		2.09
15	Traverse City	320	332		0	0		320	332		154	160		2.08
16	Traverse City	305	316		0	0		305	316		144	149		2.12
17	Traverse City	290	301		0	0		290	301		131	136		2.21
18	Traverse City	260	270		0	0		260	270		159	165		1.64
19	Traverse City	265	275		14	14		251	261		113	117		2.22
20	Traverse City	235	244		0	0		235	244		109	113		2.16
21	Traverse City	231	240		0	0		231	240		112	116		2.06
22	Traverse City	230	239		0	0		230	239		101	105		2.28
23	Traverse City	214	222		0	0		214	222		100	104		2.14
24	Traverse City	192	199		1	1		191	198		77	80		2.48
25	Traverse City	187	194		0	0		187	194		103	107		1.82
26	Traverse City	152	158		0	0		152	158		69	71		2.20
27	Traverse City	155	161		9	9		146	152		80	83		1.83
28	Traverse City	328	340		190	190		138	150		63	65		2.19
29	Traverse City	121	125		0	0		121	125		66	68		1.83
30	Traverse City	121	125		0	0		121	125		72	75		1.68
31	Traverse City	339	352		222	222		117	130		104	108		1.13
32	Traverse City	272	282		158	158		114	124		66	68		1.73
33	Traverse City	103	107		0	0		103	107		60	62		1.72
34	Traverse City	97	101		0	0		97	101		49	51		1.98
35	Traverse City	73	76		0	0		73	76		42	44		1.74
36	Traverse City	74	77		5	5		69	72		33	34		2.09
37	Traverse City	69	72		0	0		69	72		35	36		1.97
38	Traverse City	59	61		0	0		59	61		31	32		1.90
39	Traverse City	40	41		0	0		40	41		17	18		2.35
40	Traverse City	39	40		0	0		39	40		29	30		1.34
41	Traverse City	37	38		0	0		37	38		17	18		2.18
42	Traverse City	61	63		27	27		34	36		23	24		1.48
43	Traverse City	28	29		0	0		28	29		22	23		1.27
44	Traverse City	23	24		0	0		23	24		8	8		2.88
45	Traverse City	23	24		0	0		23	24		13	13		1.77
46	Traverse City	22	23		0	0		22	23		12	12		1.83
47	Traverse City	15	16		0	0		15	16		6	6		2.50
48	Traverse City	12	12		0	0		12	12		7	7		1.71
49	Traverse City	27	28		16	16		11	12		5	5		2.20
50	Traverse City	8	8		0	0		8	8		7	7		1.14
51	Traverse City	6	6		0	0		6	6		4	4		1.50
52	Traverse City	4	4		0	0		4	4		4	4		1.00

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
53	Traverse City	3	3		0	0		3	3		2	2		1.50
54	Traverse City	2	2		0	0		2	2		2	2		1.00
55	Traverse City	0	0		0	0		0	0		0	0		0.00
56	Traverse City	0	0		0	0		0	0		0	0		0.00
57	Traverse City	0	0		0	0		0	0		0	0		0.00
58	Traverse City	2	2		2	2		0	0		0	0		0.00
59	Traverse City	0	0		0	0		0	0		0	0		0.00
60	Traverse City	0	0		0	0		0	0		0	0		0.00
	Subtotals	14,674	15,218		767	767		13,907	14,451		6,688	6,930		2.08

TazID_15	Jurisdiction	PopTot_10	PopTot_15	Comments	GqTot_10	GqTot_15	Comments	PopNoGq_10	PopNoGq_15	Comments	HuOcc_10	HuOcc_15	Comments	PopToHhRatio
550	Whitewater	1,172	1,250		0	0		1,172	1,250		471	503		2.49
551	Whitewater	853	910		0	0		853	910		327	348		2.61
552	Whitewater	387	413		0	0		387	413		142	151		2.73
553	Whitewater	128	137		0	0		128	137		50	53		2.56
554	Whitewater	57	61		0	0		57	61		22	23		2.59
	Subtotals	2,597	2,771		0	0		2,597	2,771		1,012	1,078		2.57

Tentative Action Steps for **Master Street Plan Concept**

The following action steps require commitment and engagement by all involved parties:

- Gather Information and Data related to Existing Conditions
 - Collect **goals and objectives from local Master Plans** related to land use and transportation. Plan goals and objectives provide the foundation for this effort and planning for the coordination of the land use and transportation connection.
 - Collect **future land use designations** and locations from local Master Plans.
 - Collect local **zoning maps and zoning district requirements** (Schedule of Regulations).
 - County Equalization Department is interested in developed county-wide zoning layer in its GIS database
 - Collect **Transportation Analysis Zones (TAZ)**
 - **Inventory existing motorized and non-motorized facilities.**

- Conduct Analysis
 - Perform a build-out analysis of specific areas using county-wide zoning layer and other sources. The build-out analysis will illustrate potential future development, including number of dwelling units and residents (i.e., tripmakers).
 - Identify transportation analysis zones with noticeable population and employee increases.
 - Review and compare information and data sets.

- Determine Demand
 - Based on the analysis, create and identify potential demand for transportation needs of future development in “hot spot” areas.

- Illustrate Future Connections and Improvements
 - Based on the determined demand, possible future connections and improvements can be identified, including determining the type of facilities. These improvements do not need to be public improvements. They may consist of private roads, shared access agreements and other means to connect land use development outwards to County roads.
 - When planning commissions are making land use decisions for new development, there will be an understanding of the need to ensure there is motorized and non-motorized connectedness between developments. At the same time, the road commission has an understanding of what areas may be experiencing new development and is able to plan accordingly to improve transportation facilities.

Here is a very simplistic illustration of what the plan may illustrate:

