

September 3, 2024

Mr. Jake Burks, PE Becknell Services, LLC 205 Detroit Street 2nd Floor Denver. Colorado 80206

Re: Nexus North Building 4

Traffic Compliance Letter Commerce City, Colorado

City of Commerce City Engineering APPROVED 05/16/2025

Dear Mr. Burks,

This traffic study letter has been prepared to provide a trip generation comparison for Building 4 located in the northwest corner of the overall Nexus North development to identify compliance with the Nexus North - Project "Echo" Traffic Compliance Letter completed in November 2019. The Project "Echo" compliance letter broke the development area into Nexus North at DIA, Becknell Commercial, DIA Tech Center Annex, and Parcel #11 of DIA Tech Center to defined square footages for each building within Nexus North. Of note, the Project Echo Compliance Letter identified the proposed lots generated fewer trips than what was originally studied (shown in the attachments). The overall Nexus North development is located near the northwest corner of 81st Avenue and Tower Road in Commerce City, Colorado. Specifically, Building 4 is located on the northwest corner of the overall development, north of where Quintero Street terminates as a cul-de-sac and on the southeast corner of 88th Avenue and Buckley Road. The site plan is attached for reference. Additionally, the City is requesting a trip generation comparison of the overall Nexus North development.

The original study identified Building 4 as "New Building #1" for the same development area assuming 81,100 square feet of warehousing and 43,650 square feet of office in a 124,750 square foot building while the current application is proposed with 157,206 square feet of warehousing and 5,000 square feet of office for a total building area of 162,206 square feet. Applicable documents from the original traffic study are attached.

Access to Building 4 remains unchanged as previously studied. Regional access to the site is provided by Peña Boulevard, Tower Road, and E-470. Primary access to the site is provided by 81st Avenue and 84th Avenue. Direct access to the project will be provided at the cul-de-sac located at the northern end of Quintero Street.

TRIP GENERATION COMPARISON

Site-generated traffic estimates are determined through a process known as trip generation. Rates and equations are applied to the proposed land use to estimate traffic generated by the development during a specific time interval. The acknowledged source for trip



generation rates is the *Trip Generation Manual*¹ published by the Institute of Transportation Engineers (ITE). ITE has established trip rates in nationwide studies of similar land uses.

In the previous compliance letter, the ITE Trip Generation Manual 10th Edition (current version at the time) average rates that apply to warehousing and office building for traffic associated with the original development were used. To provide a direct comparison between what was studied and the current proposal, the approved rates from the compliance letter for warehouse and office were used. Therefore, the following rates for each land use are summarized below:

Warehousing (ITE 150)

Daily = 1.74 trips / 1,000 SF AM In = 0.131 trips / 1,000 SF AM Out = 0.039 trips / 1,000 SF PM In = 0.051 trips / 1,000 SF PM Out = 0.139 trips / 1,000 SF

Office (ITE 710)

Daily = 10.19 trips / 1,000 SF AM In = 0.868 trips / 1,000 SF AM Out = 0.141 trips / 1,000 SF PM In = 0.170 trips / 1,000 SF PM Out = 0.894 trips / 1,000 SF

The following **Table 1** compares the trip generation of Building 4 compared to the original user.

Table 1: Nexus North Building 4 Trip Generation Comparison

	<u> </u>									
			Trips	rips						
Land Use and Size	Daily	AM	Peak H	lour	PM Peak Hour					
		In	Out	Total	In	Out	Total			
Original Traffic Study – Nexus North at DIA TIA (Dec 2018)										
Warehouse – 81,100 SF	141	11	3	24	4	11	15			
Office – 43,700 SF	445	38	6	44	7	39	46			
Total Trips	586	49	9	68	11	50	61			
Current Proposal – Building 4										
Warehouse – 157,206 SF	274	21	6	27	8	22	30			
Office – 5,000 SF	50	4	1	5	1	4	5			
Total Trips	324	25	7	32	9	26	35			
Net Difference in Trips	-262	-24	-2	-36	-2	-24	-26			

As shown in the table, the proposed Building 4 is expected to generate approximately 32 trips during the morning peak hour and 35 trips during the afternoon peak hour. The same development area (Building 4) from the original traffic study generated 68 trips during the morning peak hour and 61 trips during the afternoon peak hour. Therefore, Building 4 is anticipated to generate 36 fewer morning peak hour trips and 26 fewer afternoon peak hour trips than previously studied for the same site-specific development area.

As mentioned previously, the City has requested a comparison between what is currently developed/planned and what was included/approved in the development plan. Therefore, a trip generation comparison is provided in **Table 2** below for the entire site.

¹ Institute of Transportation Engineers, Trip Generation Manual, Eleventh Edition, Washington DC, 2021.



Table 2: Nexus North Overall Trip Generation Comparison

	Table 2: Nexus North (Overall Trip (3enerati							
		Building				hicles Trips				
Building ¹	Land Use and Size	Status	AM Peak Hour			PM Peak Hour				
		Otatao	In	Out	Total	In	Out	Total		
	Original Compliance Letter (an original TIS) – Nexus North								
Becknell	Warehouse – 487,300 SF		64	19	83	25	68	93		
Property #1	Office – 54,100 SF		47	8	55	9	48	57		
Becknell	Warehouse – 444,600 SF		58	17	75	23	62	85		
Property #2	Office – 49,400 SF		43	7	50	8	44	52		
Becknell	Warehouse – 277,000 SF	oposal and Already Built Built Not Built	36	11	47	14	38	52		
Property #3	Office- 30,800 SF		27	4	31	5	28	33		
New	Warehouse – 81,100 SF		11	3	14	4	11	15		
Building #1	Office – 43,700 SF		38	6	44	7	39	46		
New	Warehouse – 110,800 SF		15	4	19	6	15	21		
Building #2	Office- 59,700 SF		52	8	60	10	53	63		
New	Warehouse – 897,800 SF		118	35	153	46	125	171		
Building #3	Office – 99,800 SF		87	14	101	17	89	106		
New	Warehouse – 296,900 SF		39	12	51	15	41	56		
Building #4	Office – 33,000 SF		29	5	34	6	30	36		
New	Warehouse – 121,900 SF		16	5	21	6	17	23		
Building #5	Office – 13,500 SF		12	2	14	2	12	14		
	Total Trips		692	160	852	203	720	923		
	Current Propo	sal and Alrea	dy Cons	tructed	1					
Becknell	Warehouse – 534,807 SF		70	21	91	27	74	101		
Property #1	Office – 6,621 SF	Dulit	6	1	7	1	6	7		
Becknell	Warehouse - 261,801 SF	Duilt	34	10	44	13	36	49		
Property #2	Office – 17,073 SF	Duiit	15	2	17	3	15	18		
Becknell	Warehouse – 303,200 SF	Not Built	40	12	52	15	42	57		
Property #3	Office – 4,600 SF	NOT Built	4	1	5	1	4	5		
New	Warehouse – 157,206 SF	Proposed	21	6	27	8	22	30		
Building #1	Office – 5,000 SF	Fioposeu	4	1	5	1	4	5		
New	Warehouse – 162,581 SF	Built	21	6	27	8	23	31		
Building #2	Office – 8,500 SF	Duilt	7	1	8	1	8	9		
New	Warehouse – 989,600 SF	Built	130	39	169	50	138	188		
Building #3	Office – 11,002 SF	Duit	10	2	12	2	10	12		
New	Warehouse – 314,026 SF	Built	41	12	53	16	44	60		
Building #4	Office – 16,500 SF	Duit	14	2	16	3	15	18		
New	NI/A	Removed	Removed							
Building #5	N/A Total Trips		447	440	500	4.40	444	500		
	Total Trips		417	116	533	149	441	590		
	Net Difference in Trips		-275	-44	-319	-54	-279	-333		

Notes: ¹Building name convention is from master study

As shown in the table above, the overall development is calculated to generate 319 fewer morning peak hour trips and 333 fewer afternoon peak hour trips than studies in the master traffic study/supplement studies. Therefore, the site is believed to be in traffic compliance with the original traffic study/supplemental studies.



CONCLUSIONS AND RECOMMENDATIONS

The Building 4 site is expected to decrease traffic by approximately 36 morning peak hour trips and 26 afternoon peak hour from what was previously studied in the *Nexus North – Project "Echo" Traffic Compliance Letter* for the same development area. Additionally, the current overall site that is either currently constructed, proposed (Building 4 – formerly "New Building #1"), or planned ("New Building #3") is calculated to generate 319 fewer morning peak hour trips and 333 fewer afternoon peak hour trips compared to the compliance letter. Therefore, it is believed that the proposed Building 4 site and the overall development is in traffic compliance with the original traffic study prepared in December 2018 and the compliance letter prepared in November 2019. The recommendations provided in that study should remain valid for this development area. If you have any questions or require anything further, please feel free to call me.

Sincerely,

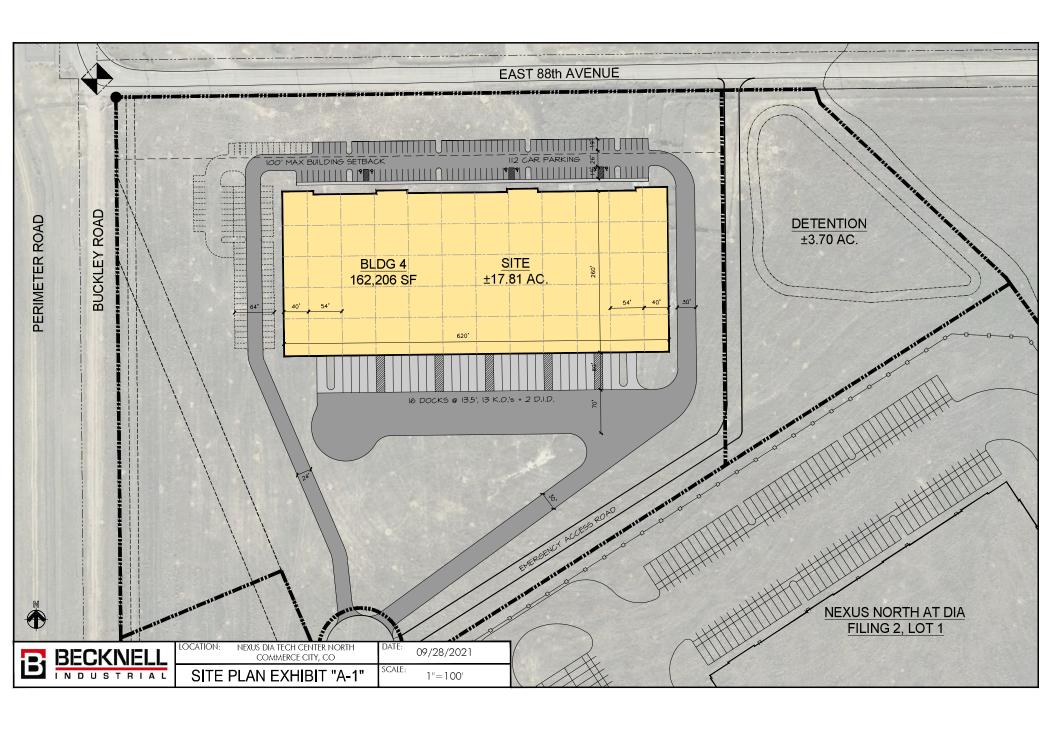
KIMLEY-HORN AND ASSOCIATES, INC.

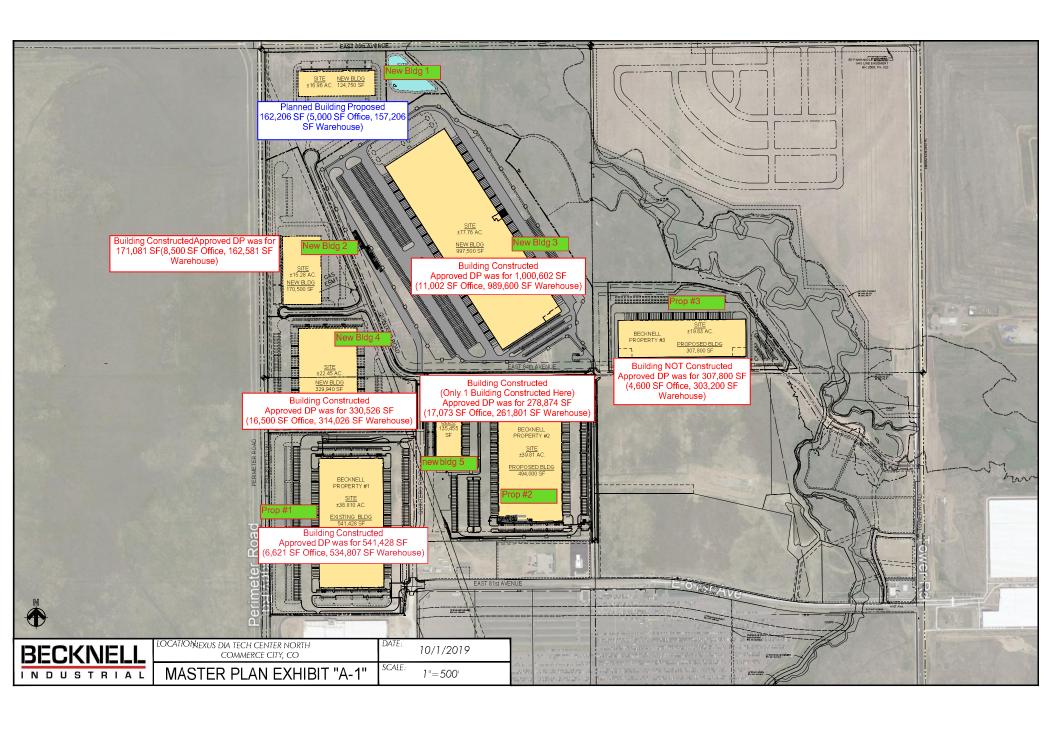
Jeffrey R. Planck, P.E. Project Traffic Engineer

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53006 09/03/2024

Conceptual Site Plan





Original Traffic Study Documents

Table 1 **ESTIMATED TRAFFIC GENERATION COMPARISON** Nexus North - Project "Echo" **Commerce City, CO**

LSC #180372; November, 2019

			Trip Generation Rates (1)				-1-11	Vehicle - Trips Generated				
p Generating Category		Quantity ⁽²⁾	Average Weekday	AM Peak Hour In Out		PM Peak Hour In Out		Average _ Weekday			PM Peak - Hour In Out	
ip Generaling Galegory		Quantity	Weekuay	lii	Out	111	Out	Weekuay	In	Out	111	Out
and Use Assumed in the Dec exus North	ember 18, 201	8 Nexus North at Di	A TIA by LSC	C								
Flex Space	41.03 acres											
Warehouse (3) (65%)	26.67 acres	= 383 KSF (4	1.74	0.131	0.039	0.051	0.139	667	50	15	20	53
Office (5) (35%)	14.36 acres	= 206 KSF	10.22	0.873	0.142	0.171	0.898	2,109	180	29	35	18
Distribution Warehouse	74.06 acres											
Warehouse (90%)	66.65 acres	= 958 KSF	1.74	0.131	0.039	0.051	0.139	1,667	125	37	48	133
Office (10%)	7.41 acres		10.22	0.873	0.142	0.171	0.898	1,087	93	15	18	9
					Mov	ua North	Subtotal =	5,530	448	96	121	46
					Nex	us mortri	Subtotal =	5,530	448	96	121	40
cknell Commercial ⁽⁶⁾			-	-	-	-	-	1,924	130	32	43	13
A Tech Center Annex	51.89 acres											
Warehouse (90%)	46.70 acres		1.74	0.131	0.039	0.051	0.139	1,168	88	26	34	9
Office (10%)	5.19 acres	= 75 KSF	10.22	0.873	0.142	0.171	0.898	767	65	11	13	6
				7	Tech Centi	er Annex	Subtotal =	1,935	153	37	47	16
				,	. 50.1 00110			.,,,,,,,,		<u> </u>	.,	
rcel #11 of DIA Tech Center Distribution Warehouse	<u>19.90 acres</u>											
Warehouse (90%)	17.91 acres	= 257 KSF	1.74	0.131	0.039	0.051	0.139	448	34	10	12	3
Office (10%)	1.99 acres		10.22	0.873	0.142	0.171	0.898	292	25	4	5	2
			Parcel #11 of DIA Tech Center Subtotal =					740	59	14	17	
							TOTAL =	10,129	790	179	228	81
							TOTAL -	10,129	7 30	179	220	01
rrently Proposed Land Use												
Becknell Property #1												
Warehouse (90%)		487.3 KSF	1.74	0.131	0.039	0.051	0.139	848	64	19	25	(
Office (10%)		54.1 KSF	10.19	0.868	0.141	0.170	0.894	551	47	8	9	2
Becknell Property #2												
Warehouse (90%)		444.6 KSF	1.74	0.131	0.039	0.051	0.139	774	58	17	23	(
Office (10%)		49.4 KSF	10.19	0.868	0.141	0.170	0.894	503	43	7	8	4
Becknell Property #3												
Warehouse (90%)		277.0 KSF	1.74	0.131	0.039	0.051	0.139	482	36	11	14	(
Office (10%)		30.8 KSF	10.19	0.868	0.141	0.170	0.894	314	27	4	5	2
Now Duilding #4												
New Building #1 Warehouse (65%)		81.1 KSF	1.74	0.131	0.039	0.051	0.139	141	11	3	4	
Office (35%)		43.7 KSF	10.19	0.131	0.039	0.031	0.133	445	38	6	7	;
,												
New Building #2		110.8 KSF	1.74	0.131	0.039	0.051	0.139	193	15	4	6	
Warehouse (65%) Office (35%)		59.7 KSF	1.74	0.131	0.039	0.051	0.139	608	52	4 8	6 10	
,		55.7 1101	.5.10	3.500	Q. 1 F1	3.170	3.001	330	02	3	.0	•
New Building #3		007.0 1/05	4 74	0.404	0.000	0.051	0.400	4 500	440	0.5	40	
Warehouse (90%) Office (10%)		897.8 KSF 99.8 KSF	1.74 10.19	0.131 0.868	0.039 0.141	0.051 0.170	0.139 0.894	1,562 1,017	118 87	35 14	46 17	12
Onice (1070)		99.0 NOF	10.18	0.000	0.141	0.170	U.U 34	1,017	01	14	17	•
New Building #4				_	_	_						
Warehouse (90%)		296.9 KSF	1.74	0.131	0.039	0.051	0.139	517	39	12	15	4
Office (10%)		33.0 KSF	10.19	0.868	0.141	0.170	0.894	336	29	5	6	;
New Building #5												
Warehouse (90%)		121.9 KSF	1.74	0.131	0.039	0.051	0.139	212	16	5	6	
Office (10%)		13.5 KSF	10.19	0.868	0.141	0.170	0.894	138	12	2	2	•
Total Warehouse Space =		2,717.4 KSF					TOTAL =	8,641	692	160	203	72
Total Office Space =		384.0 KSF										
		3,101.4 KSF										

Notes:

- (1) Source: Trip Generation, Institute of Transportation Engineers, 10th Edition, 2017
- (2) A floor area ratio (FAR) of 0.33 was assumed in the original TIA unless noted otherwise.(3) ITE Land Use No. 150 Warehousing
- (4) KSF = 1,000 square feet
- (5) ITE Land Use No. 710 General Office Building; formula rates were used based on total office square footage.
 (6) Based on April 2018 Becknell Commercial TIA by DB Enterprises