ML - Morris County Fair Housing Council V. Boonton Township

9-Nov-1979

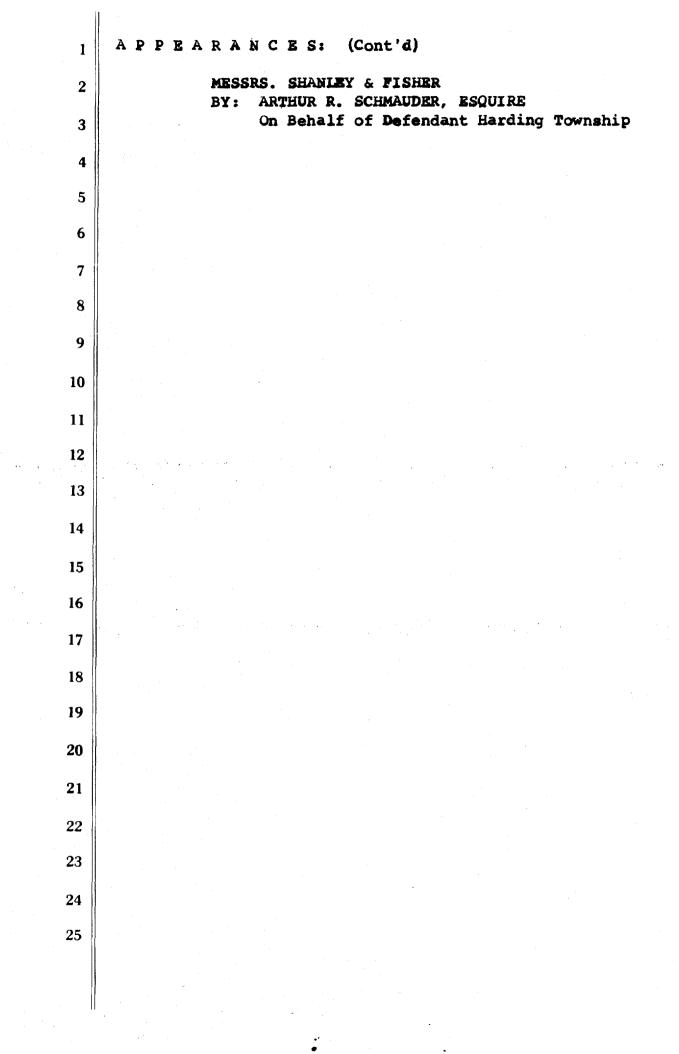
Deposition of Marshall Frost



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	ML0004	14G SUPERIOR COURT OF NEW JERSEY LAW DIVISION - MORRIS COUNTY
· • • 4	1	DOCKET NO. L-6001-78 P.W.
	2	42-4220
	3	MORRIS COUNTY FAIR HOUSING : COUNCIL, :
	3	Plaintiff : DEPOSITION OF:
	4	-vs- : Marshall Frost
	·. 5,	BOONTON TOWNSHIP, et als, :
J.	6	Defendants :
-	rowsmith ./10/79 7	
	8	TRANSCRIPT of deposition in the above-
	9	entitled matter, taken by and before Elizabeth A. Quagliani,
	10	a Certified Shorthand Reporter and Notary Public of the
	11	State of New Jersey, on Friday, November 9, 1979, at the
 	12	Morris Township Municipal Building, 50 Woodlawn Avenue,
	13	Morris Township, New Jersey, commencing at 9:30 a.m.
A V V V	14	
	15	APPEARANCES:
PENGAD	16	STANLEY C. VAN NESS, ESQUIRE Public Advocate of the State of New Jersey
		BY: VERICE M. MASON, ESQUIRE and
	17	KEITH A. ONSDORFF, ESQUIRE On Behalf of the Plaintiff
	18	MECCOC DENIDI BILON C I AMERD
	19	MESSRS. PENDLETON & LATZER BY: BERTRAM J. LATZER
	20	On Behalf of the Common Defense
	21	
	22	Stenographic Services Arranged Through:
	23	ROSENBERG & ASSOCIATES Certified Shorthand Reporters
	24	769 Northfield Avenue West Orange, New Jersey 07052
•	25	Telephone: (201) 678-5650



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(Taken by and before Elizabeth A. Quagliani, 1 a Certified Shorthand Reporter and Notary Public of 2 the State of New Jersey, at the Morris Township 3 Municipal Building, 50 Woodlawn Avenue, Morris Town-4 ship, New Jersey.) 5 6 MR. LATZER: I'd like a statement from the 7 public advocate in regard to compensation of this 8 9 witness, please, before he's sworn. MS. MASON: It is our understanding that we 10 will pay the cost of Mr. Frost's deposition here 11 according to whatever cost he charges the common 12 defense, the reasonable cost charged to the common 13 defense. 14 MR. LATZER: Okay. 15 MR. SCHMAUDER: Well, I object to that. Are 16 you going to pay his -- the cost that he has been 17 charging to the common defense? 18 MS. MASON: We are going to pay for the cost 19 of his presence here today, his time here today. 20 MR. SCHMAUDER: Based upon what he has been 21 charging the common defense per hour, is that what 22 you're saying? 23 MS. MASON: Based upon -- according to the 24 reasonable cost that he's been charging --25

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. 1	MR. SCHMAUDER: No, no.
2	MR. ONSDORFF: Wait. I don't think we need to
3	have a debate.
4	MR. LATZER: Off the record.
5	
6	(Whereupon, a brief off-the-record discussion
7	is held.)
8	
9	MS. MASON: We said "reasonable" because we
10	had no idea exactly right now what he has been charg-
11	ing the common defense.
12	MR. SCHMAUDER: I understand that. We're
13	going to get into an argument later on as to what the
14	agreement is unless it is specified today.
15	MS. MASON: My understanding is that this was
16	already discussed with Mr. Clapp. Mr. Latzer asked
17	for a clarification and I was giving him that. He
18	had no problems with that. If you have problems with
19	what I am saying to you, Mr. Bisgair from our office
20	has discussed it with Mr. Clapp and they have agreed
21	that whatever Mr. Frost has been billing as his time,
22	hourly time, to the common defense our office will
23	pay for the cost of that time today.
24	MR. SCHMAUDER: Fine.
25	MS. MASON: Can we continue now?
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1	MR. LATZER: Yes, go ahead.
2	MS. MASON: Thank you.
3	
4	MARSHALL FROST, being duly sworn, testified as
5	follows:
6	
7	DIRECT-EXAMINATION BY MS. MASON:
8	Q Mr. Frost, have you ever been deposed before?
9	A Yes, I have.
10	Q Then you have some idea that giving testimony
11	under oath means that it will be transcribed by the sten-
12	ographer and can be possibly used at trial later on.
13	A Yes.
14	Q If you don't understand any of the questions,
15	please ask me to explain it or to repeat it and I will have
16	no problems with that.
17	A Fine.
18	Q If Mr. Latzer should place an objection or
19	Mr. Schmauder, please wait and do not answer until they have
20	completed their objection for the record.
21	Now, could you please state your occupation?
22	A Yes. I'm a licensed engineer in the state of New
23	Jersey and a licensed planner. I have my own engineering
24	firm, Frost Associates. It's a consultant firm which is
25	basically a civil engineering firm which does a large amount

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Frost-direct 5 of work in traffic and transportation. I am president of 1 that firm. 2 What task, if any, do you perform within the Q 3. corporation? 4 Well, other than being -- other than having the title 5 of president, it is a small firm and I conduct most of --6 are in charge of most of the traffic and transportation work 7 that the firm produces. 8 9 Did you receive our subpoena to bring certain Q documents with you today? 10 Yes, I did. A 11 Q Have you turned those documents over to 12 Mr. Onsdorff? 13 I brought some of the specific information collected 14 A and put together in a series of files during the course of 15 this project. There is a large amount of additional informa-16 tion within the general files of the firm. Also, there are 17 a large number of traffic counts and so forth that were 18 collected from secondary data scences which I do not have 19 with me, however, I will make them available to either 20 counsel or anyone to take a look at and I would be happy 21 to make copies of those if someone should require them. 22 23 DIRECT-EXAMINATION BY MR. ONSDORFF: 24 At this time, I would ask you to identify the 25 Q

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1	folders which you have produced in response to the subpoena
2	today. Just briefly, by the materials that are contained in
. 3	each individual file and as each one is identified, would you
- 4	kindly hand it to the court reporter so she can mark it for
5	identification?
6	MR. SCHMAUDER: Before that's done, can we have
7	a mark for the record for what you refer to as a
8	subpoena?
9	MR. ONSDORFF: If you feel that's appropriate.
10	
11	(Whereupon, the Reporter complies with the
. 12	above request and marks P-1 for identification,
13	subpoena duces tecom.)
14	
15	MR. SCHMAUDER: Let the record reflect that I
16	object to P-1, because it's being characterized as
17	something that it is not. Specifically, it is not
18	a subpoena, in spite of what it purports to be on
19	its face.
20	MR. LATZER: Do you remember the question?
21	THE WITNESS: I think they want me to
22	identify these in general terms.
23	MR. LATZER: Let me say that what we have here
24	are open files and we can identify them as of now.
25	It doesn't mean that something else may not end up

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. 1	in them. You understand that they're not documents,
2	they're files containing papers.
3	MR. ONSDORFF: That's correct.
4	MR. LATZER: Okay.
5	A One of the files contains general information on bus
6	routes in the county collected during over the past six
7	or eight months.
8	Q Does that particular file have a title,
9	reference?
10	A It has a label on it, "79-120 Morris County," and
2046	then has the number "4a." Is that satisfactory? It says
12	"Bus & Misecellaneous" on it.
0000	Q What is your understanding of the materials
	contained in the file?
······································	MR. SCHMAUDER: I object. I understood that
	Ms. Mason was going to be conducting this deposition.
10	MS. MASON: Both of us will be conducting the
18	deposition.
19	MR. SCHMAUDER: I object to that. It seems
20	to me, if a deposition is going to be taken, it should
20	be taken by one lawyer and I think if that procedure
· []	isn't satisfactory, then we'd better proceed to the
22	courthouse and find out why more than one person
23	should be asking questions of the same witness.
24	MR. LATZER: I have no objection. If it's
25	FILL AREADERS I HEVE HO UDJECTION. II IC S

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1	oppressive, I will object. That's my position repre-
2	senting the common defense committee. I don't find
3	the questions oppressive and I don't care whether
4	one lawyer does it or two. So, I'm prepared to pro-
5	ceed. If you want to go to the courthouse, go to the
6	courthouse.
7	MR. ONSDORFF: Thank you. We plan to continue.
8	MR. SCHMAUDER: Can you give us an idea of
9	what your proposal is, do you propose to just be
10	shifting back and asking questions as you decide
11	how that is appropriate in your own mind?
12	MR. ONSDORFF: To the extent we feel it's
13	appropriate, we will shift back and forth, that's
14	correct.
15	MR. SCHMAUDER: I object to that procedure and
16	I ask that you not do that.
17	MR. ONSDORFF: Thank you. We've noted your
18	objection.
19	
20	BY MR. ONSDORFF:
21	Q Please continue
22	A In the You're going to have to goback, because I'm
23	not quite sure what you asked.
24	Q My question was, the materials
25	that are contained in that, is there any manner in

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1	which the materials in that file are limited as to
2	what goes into that file?
3	MR. SCHMAUDER: Gentlemen, I think it is
4	inappropriate and ladies. A party has to be repre-
5	sented by an attorney and it is duly proper that more
6	than one attorney be present. It's duly proper,
7	clearly, that if you wish to have certain segments
8	of a proceeding handled by one and then another
9	segment handled by another, I'm more than happy to
10	cooperate in any way that that seems appropriate to
11	you.
12	But I don't think it is fair to anyone to have.
13	as you just may decide from time to time, each of
14	you popping questions at a witness and I think if
15	that is what you propose, that we should proceed to
16	the courthouse and get a ruling.
17	MR. ONSDORFF: Sir
18	MR. LATZER: Go ahead. I would like these
19	depositions to proceed. Your objection has been
20	noted. I do not find, representing this particular
21	witness, the proceedings oppressive. If you do,
22	would you please go to the courthouse?
23	MR. SCHMAUDER: Will you come with me?
24	MR. LATZER: No, I will not. I want to get
25	on with the depositions.

9

1	MR. SCHMAUDER: What you are forcing me to do,
2	then, is subject my client to the results without
3	having a ruling of the court and I don't think that's
4	fair on your part, either.
5	MR. LATZER: You want to proceed?
6	MR. ONSDORFF: Yes, please. I believe there's
7	a question pending.
8	MR. LATZER: Do you remember what it is?
9	THE WITNESS: I can take a shot.
10	A Generally, was there any limit placed on the informa-
11	tion in the file?
12	Q As to what material by substance that goes
13	into that particular file.
14	A Well, the one of my employees that's been involved in
15	the collection of data and so forth is the one that ends up
16	bringing the information in the various files. So, I can't
17	specifically say that there was a limit placed upon it or
18	but generally speaking, the intent of this file was to hold
19	certain information, which is has a summary on it and I
20	can give you a rough summary of what's in here.
21	The intent of the file was neither to include or
22	exclude anything. I'm not sure that answers the question.
23	Q That's sufficient.
24	MR. ONSDORFF: We'll just mark the file for
25	identification, okay? We're up to P-2, if I'm not

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mistaken.

2 (Whereupon, the Reporter complies with the 3 above request and marks P-2 for identification, file 4 #4z, bus & miscellaneous.) 5 6 Q The next file, if you could identify it, sir. 7 8 A Okay. This one says, "Morris County Auto Costs," has been the number "3a" on it. 9 My question is, is the file a fair representa-10 Q tion of the types of material to be found in that file? 11 12 A Yes. 13 Q And that would be true in each case? 14 Ä Yes. MR. ONSDORFF: We'll just take a second to 15 have the Morris County auto costs marked as P-3, 16 I believe. 17 18 19 (Whereupon, the Reporter complies with the 20 above request and marks P-3 for identification, file #3a - Morris County auto costs.) 21 22 Would you please continue to the next file? Q 23 Having said that the titles were representative, A 24 25 the next two don't have titles. So, the next one has the

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,	identification of "79-120-4 Morris County." And
••••1	Q Excuse me. Having examined those materials,
2	
3	would you be in a position to characterize them as to what
4	that file contains?
5	A The two pieces of information of substance contained
6	within the file relate to some construction cost information
7	and a publication by the Bureau of Labor Statistics on urban
8	family budgets.
9	MR. ONSDORFF: Okay. We'll have that marked
10	as Exhibit P-4.
ت ۲۵ ا	(Whereupon, the Reporter complies with the
	above request and marks P-4 for identification, file
эмиод 14	79-120-4 Morris County.)
³ 15	
16	THE WITNESS: All set?
17	Q Please.
18	A The next one has a label on it. It says "79-120
19	Morris County" and has the number "5a." There is no label
20	as to what it is, but generally characterizing the informa-
. 21	tion, it relates to rail passenger service in Morris County.
22	MR. ONSDORFF: Thank you. We will mark that
23	as Exhibit P-5, please.
24	
24	(Whereupon, the Reporter complies with the
23	
	• •

1	above request and marks P-5 for identification,
2	file #5a 79-120.)
3	
4 .	MS. MASON: We'd like to have the report marked
5	in also, in evidence.
6	Ω I show you a copy of what purports to be the
7	report that your firm prepared on September 28, 1979. Would
8	you examine that and indicate whether that
9	
10	(Witness is handed document.)
11	
1 2	A Could I ask a question?
13	MS. MASON: Sure.
14	THE WITNESS: I'll give you a copy which has
15	no notes on it which I stipulate is the same thing.
16	But I may need to make use of it. So, can we mark
17	it and I use it from time to time?
18	MR. ONSDORFF: Absolutely.
19	
20	(Whereupon, the Reporter marks P-6 for
21	identification, report of Frost Associates dated
22	September 28, 1979.)
23	
24	Q Now, directing your attention to P-6, that
25	report is dated September 28, 1979. Do any of the files
	•

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which have been previously marked as P-2 through P-5 contain 1 any drafts or prior preliminary reports which are reflected 2 by that final report, P-6? 3

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They do not contain any drafts or preliminary reports. 4 There is some summarization, preliminary summarization of 5 information which later ended up in this report. 6

Now, in the materials that you've referred to Q 7 which also pertain to the Morris County litigation that are 8 back in your offices, do any of those files contain any 9 preliminary drafts of P-6 which would be available at a 10 later time? 11

I frankly don't know if we have any preliminary drafts that were used to generate this in the office. I mean, I don't even know if they were kept. They got typed and retyped. I can't answer the question. If they are, they're there. I just don't know the answer to the question.

Q All right. The final document, I think at 17 least for the time being, I'd like marked is a surface trans-18 portation element draft study done by the New Jersey Depart-19 ment of Transportation. You want to just take a look at 20 that for a minute? 21

(Witness is handed document.)

MR. LATZER: Well, this is your document?

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MR. ONSDORFF: Yes. We wanted to provide it 1 in case you have any objection to its being marked 2 for identification. 3 MR. LATZER: You can mark anything you want. 4 MR. ONSDORFF: Okay. 5 6 (Whereupon, the Reporter marks P-7 for 7 identification, surface passenger transportation 8 element draft.) 9 10 MR. ONSDORFF: Having completed a preliminary 11 segment of questioning dealing with the marking of 12 exhibits, at this time I will turn over the guestion-13 ing to co-counsel for a segment dealing with substan-14 tive questions. 15 16 CONTINUED DIRECT-EXAMINATION BY MS. MASON: 17 Mr. Frost, what do you consider your area Q 18 19 of expertise to be? Traffic and transportation. A 20 Are there any particular subareas in that Q 21 area, the full range, exactly what in particular --22 MR. SCHMAUDER: I object to the form of the 23 question. 24 Could you tell me particularly in what areas Q 25

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of traffic and transportation you feel that you are an expert?

I'm not answering because I don't have the expertise, 3 but I don't know how to answer it. I would anticipate that I 4 consider myself to be expert in trip generation, capacity 5 analysis, bus transportation. I am knowledgeable in rail-6 road studies. I don't consider myself an expert in the de-7 sign of railroads. I don't know of an area that pertains 8 9 to this report and/or this case that I don't consider myself qualified as an expert. 10

11 Q What in your background do you feel qualifies
12 you as an expert in this regard?

I have an undergraduate degree in civil engineering 13 A from Lehigh University and a master's in transportation from 14 Polytechnic Institute of Brooklyn, which is now part of 15 CUNY, changed hands after I left. I had spent time working 16 for the New York City Department of Traffic and then worked 17 for the New Jersey Department of Transportation in the 18 Planning Division and had been involved in the consulting 19 end of the business since 1970, where I spent most of my 20 time working in the way of traffic and transportation facet 21 of that profession. 22

23 So, I would think, after that number -- with the 24 background I have in the education, yes, I consider myself 25 qualified as an expert in these areas.

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1	Q With regard to your previous employment, you
2	did supply us with a resume, but you failed to state the
3	actual terms of employment and exactly where it was. Could
4	you do that for us now?
5	MR. LATZER: Could you be more specific?
6	MS. MASON: Yes. He stated that he's worked
7	with the Department of Transportation, certain
8	organizations within New York. I would just like to
9	have some time frame
10	A Yes. I spent
11	MS. MASON: as well as the organization.
12	A With the New York City Department of Traffie, I was
13	with them from 1966, started with them in 1966 and left in
14	the fall of '68. I left the New York Department of Trans-
15	portation in January of 1970. I was with the firm called
16	Purcell Associates, it was a consulting firm, from 1970
17	through the fall of 1974, when I started my own firm. I
18	have had my own firm since 1974.
19	Q Have you performed any other transportation
20	studies that are somewhat similar to the kind performed
21	for this litigation?
22	A I consider this to be an overview of transportation,
23	but I think probably the type of thing you might be asking
24	about, when I was with the Department of Transportation,
25	New Jersey Department of Transportation, I was in charge of

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the analysis end of the Atlantic City urban area transportation study, which was the federally funded transportation study along the lines of Tri-state, but obviously much smaller, required by the Federal Department of Transportation in order to receive federal funds.

My involvement in that, I was involved -- I came with 6 the Department of Transportation as the data collection 7 phase was being finished. I was involved with the setting 8 up of the network for analysis, the loading of that network 9 from the existing data and validating the existing data. 10 I was involved with the projection of the socioeconomic 11 data to the study year and then the projection of traffic. 12 onto the existing network and various proposed networks 13 which were analyzed for the study year. 14

I was involved with the analysis of the mass transit 15 system in Atlantic City and it was culminated with a written 16 report on the ACUATS, A-C-U-A-T-S, published by the Depart-17 ment of Transportation. It was not published until sometime 18 shortly after I left, however. That study, in particular, 19 I think, probably would cover all the various facets which 20 were used in the analysis in Morris County, although to 21 nowhere near the Morris County study for no other reason, 22 time limitations and practical financial limitations, are 23 nowhere near the detail that was conducted on that. 24

25

Q

Have you ever performed any other transportation

Q

1 studies for the Northeast New Jersey area or for the Morris
2 County area?

A I was in charge for the Essex County TOPICS Program,
Pascack Valley TOPICS Program, Hackensack TOPICS Program,
Somerset County TOPICS Program and everything else was south
of the northeast.

7

What was the nature?

8 What is "TOPICS"? TOPICS was a federally funded A 9 It's an acronym, Traffic Operations Program to program. 10 Increase Capacity and Safety, and it was interested primarily 11 with traffic information, traffic-related improvements, high-12 way capacity analysis, intersection capacity analysis and 13 mass transit limited, for the most part, to buses and rail 14 transit parking. It was not involved with, directly with, 15 rail transit capacity itself.

16 These studies that you spoke of relating to Q 17 Northeast New Jersey and the Morris County area, were they 18 done in your individual capacity or as Frost Associates? 19 Actually, they were done for the firm of Purcell A 20 Associates prior to my starting my own firm. I was the 21 project engineer on all except for -- project manager on 22 all except for one of them. I was in responsible charge for 23 all of them. Those reports were published and funded by the 24 Department of Transportation. They, in fact, approved me 25 as the individual in responsible charge on those studies.

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Have you ever done any studies regarding mass Q transportation?

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With regard to mass transportation, I was involved A 3 in the Atlantic City area study, which was primarily limited 4 to bus and jitneys. Jitney is interesting, but it's not 5 applicable anywhere else in the state. In New York City, 6 I was involved in the 42nd Street inclusive bus lane study, 7 the Fifth Avenue, Madison Avenue inclusive bus lane study, 8 the Staten Island Express bus study and I was involved in 9 the study for an express bus lane in the Long Island Express-10 way, which has since been implemented. 11

So, you have not done any mass transportation 12 studies in the Northeast New Jersey or Morris County area. 13 Okay. I was employed by the firm of AT&T during 14 1972 to attempt to reduce automobile traffic to their Northern 15 New Jersey sites and that study was involved in the exten-16 sive review and study of available mass transit and alter-17 nate forms to single occupant automobile home-to-work trips. 18 That was throughout the Northeast New Jersey section of 19 the state. 20

Q What have you published, do you have any 21 publications? 22

Yes. We performed, when I was with Purcell Associ-23 A ates, we conducted two studies on -- two studies on park-24 ride facilities. For the New Jersey Turnpike Authority, 25

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1	one for the Turnpike Mainline Actually there were three
2	studies: one for the Turnpike Mainline for the northern part
3	of the state; one which addressed the Lindenwold Line for an
4	interphase with the Lindenwold Line; the third had to do
5	with the Driscoll Expressway, which was never built.
6	Q Are these the actual names of the publications?
7	A I frankly I'm getting Now, those are not pub-
8	lications, those are studies performed. The result of that
9	was the Turnpike Authority built a number of park-ride
10	facilities which I designed and the result of that was that

4 1

I have published an article on the design of park-ride
facilities. It was published, I think, in American Cities

13 magazine.

14

23

Q What year is that?

15 A I frankly don't know. I'll say 1974. It was in that 16 area, '73 or '74.

17 Q Are there any other organizations within the
 18 Morris County area or the Northeast New Jersey area that
 19 you have done transportation analyses for that you have not
 20 mentioned?

21 MR. LATZER: You might be including municipali-22 ties, any clients?

MS. MASON: Yes.

24AWe have worked for individual towns and have worked25for corporations, both traffic and transportation, and then,

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1	frankly, I don't think I can answer the question. Yes, there
2	are, and I'd be hard-pressed to name them all.
3	Q Could you give me some idea of the towns?
4	A East Orange, Hackensack, Union County 701 Transporta-
5	tion Study.
6	Q What was the nature of the transportation study
7	done in East Orange and Hackensack?
8	A In East Orange
9	MR. LATZER: Excuse me. Do you want him to
10	finish with the question or
11	MS. MASON: Yes, I do. I just While he was
12	going
13	THE WITNESS: I'm running my memory, frankly.
14	MR. LATZER: Do you have Parsippany-Troy Hills
15	as well?
16	THE WITNESS: That's right. Thank you, Bert.
17	That's correct. We have done Well, we've done
18	traffic work for and I was thinking of purely
19	studies we have done traffic work in Parsippany-
20	Troy Hills, Hanover, Berkeley Heights, Tenafly,
21	Bernards Township, Bernardsville and I frankly don't
22	remember all of them. I mean, there are more towns
23	than that.
24	The nature of the work for Bast Orange was
25	that they were involved, I guess still are involved,

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this was back in the middle Seventies, with an urban
renewal project in the center of town. I was the
consultant to the Parking Authority. The arrangement
was the Parking Authority was going to construct the
parking facilities for a large office urban renewal
complex and one of the long-standing debates was how
much parking was needed.

Given this was in the Brick Church area, if you're familiar with the Brick Church area, there are two railroad stations and it was an ongoing battle as to how many parking spaces were required because of the availability of mass transit, among many people.

I also did a study on the availability of mass transit, the impact of that mass transit, the modal split between automobile usage and rail usage for the home-to-work trip. I think the discussions are still going on in the City of East Orange as to how many spaces will be built.

With regard to the other municipalities that
you worked with, did you do similar studies?

21 A In many cases, yes. In some cases, they were purely
 22 related to traffic. In some cases, they did involve mass
 23 transit and I would be hard-pressed to go back and say what
 24 was in each one.

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Have you ever been involved in prior litigation

in terms of testifying?

A Yes.

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3 Q Could you tell me what cases and for whom did 4 you testify?

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5 A I have testified for AT&T in what I think may have 6 been the first public advocate suit in Bernards Township. 7 The public advocate felt that there was a long-standing 8 negative impact on the Passaic River and decided to enjoin 9 AT&T -- if that's the right term, because I'm not a lawyer --10 against building their access facility and I represented 11 AT&T on that since I designed the facility.

I have appeared as a witness in a court case for 12 Berkeley Heights on appearance of traffic-related matter. 13 14 I think they were being challenged by Burger King, I believe is the fast food operation. I have appeared as a witness, 15 16 but not solely in the field of traffic, for Bernards Township in what I believe was known as the Austin case, this 17 was a zoning case. And in the Lorenc case, again, it's 18 19 a zoning case.

There is also Sage, S-a-g-e, and there have been, I think, a couple of others that I was involved in. My memory fails me. I have also testified before a number of boards and boards of adjustment, but I'm not sure that's the type of testimony you're asking about.

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Before any of these judicial bodies, did you

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1give the type of testimony that would be relevant to this2type of litigation, the same type of detailed mass trans-3portation analysis?

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A No. I would say it was not the same type of testimony 5 that I would talking about today.

Q As the basis for your report, what do you
perceive the employment projections for Newark as being?
A I don't perceive the employment projections for Newark
as being -- I don't have a number.

10 Q For Hudson County, do you have any employment 11 projections?

12 A No. There were no employment projections done by my 13 firm or used in this analysis, specific employment projec-14 tions.

15QYou also state that you have perceived a16region, but that region is different from the public advocate's17region and possibly the region of Morris County planners.18Could you give me some idea of what you consider that region19to be?

A Yeah. I suppose I look at the problem from a somewhat different viewpoint and I would guess that's obvious
in here. It is admittedly very difficult from my standpoint, without extensive evaluation, to fix, physically fix,
a line or a cordon line establish that region. If, however,
I was going to establish such a region within reasonable

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expenditures of time and money, I would think, in the case of Morris County, that the region, from a very practical 2 standpoint, represents the county line. 3

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There may be specific exceptions, but the exceptions 4 would not be ten-mile exceptions. I could think, from my 5 knowledge of the county and the employment in the northeast, 6 general knowledge in those areas, from the approach which I 7 feel is represented in this report, yes, I would say that 8 the region in Morris County is adequately represented by 9 the county line. 10

Q On what do you base your notion of region? 11 One of the problems that I have had, personally, with A 12 reviewing the various decisions and in the area, least-cost 13 housing, has been a failure, I feel, on the part of the --14 both sides, or all sides, maybe, including the courts, to 15 recognize what I consider as a real practical problem, that 16 transportation costs are a very real part of the disposable 17 income of any particular family unit. Certainly, or statis-18 tically, while the income goes up, the money, statistically, 19 spent on transportation also increases. 20

The percentage does not change significantly. Con-21 sequently, if one perceives, as I do, that economics are 22 as much of a problem as all others in the situation we're 23 addressing, I think it's unrealistic to assume that housing 24 should be provided at a significant distance from the place 25

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of employment. Given the lower incomes, the housing for the lower income employees should, in fact, be made available as close as reasonably possible to the place of employment, so that a disproportionate share of the disposable income is not spent on transportation.

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6 Most transportation cost is related to the journey to 7 work, certainly a significant portion of it is. That's even 8 more true in the lower income areas and I think it is impor-9 tant that the housing that's provided be provided in such a 10 manner that the transportation costs for the journey to work 11 is kept to a minimum, reasonable minimum, level.

To consider a nine-county area as an employment region 12 for determining the location of housing, I think, is totally 13 unrealistic. Because you can have, if that's followed 14 through, you can have an extremely high portion of disposable 15 income dedicated to transportation. Given the income is 16 limited, that means the remainder of the disposable income 17 is not available for other necessities and, for that matter, 18 luxuries. I think that has not been reflected in past 19 analyses of employment regions and housing regions. 20

21QSo, would it be fair to say, then, that your22notion of region is, more or less, based upon transportation?23MR. SCHMAUDER: Objection to the form of the24question.

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Did you consult any type of authorities to

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1 determine your notion of region?

A I'm sorry, I'm not sure I follow.

Q Any type of sources.

A Is this somebody else's idea?

Q Well, I would like to know if you have consulted
other, not necessarily other people, but other publications,
if this is your own idea of region. What did you use to come
up with this concept of region?

I guess, having thought about -- or having followed 9 A the various court decisions and in one way or another being 10 involved either directly or indirectly with the particular 11 problem that region is being used in, a period significantly 12 prior to this suit I have reached that conclusion. I don't 13 know I can claim that it's my idea. I don't remember reading 14 anybody else's analysis along the same lines, but, frankly, 15 when I first read the decision, I don't remember whether it 16 was the Madison Township or Mount Laurel, I was convinced 17 the region was poorly defined because of this transportation 18 cost issue. **` 19**

It is not in the conclusion I reached after I was asked to be an expert for the Morris County suit, it was prior to that.

23 Q In your report, you discuss average family 24 households in terms of the amount of disposable income that 25 they would have available to spend on transportation cost.

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What do you think the average family household should spend, what percentage of their income do you think they should spend on transportation? From a transportation planning perspective, what do you perceive --

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If I define the income as being a lower income group, 5 I'll put that in quotes, and I couldn't give you that exact 6 number. But if I defined that number, and your labor 7 statistics has the number, but, anyway, it should be as 8 little as possible, frankly. The higher the income, the 9 less impact it has. I don't know that I really start to 10 have an opinion. If somebody's making a great deal of money, 11 if they want to spend a large portion of the disposable in-12 come on transportation, so be it. 13

My problem is that I think it would be totally wrong 14 to encourage a housing construction plan such that the 15 occupants of that housing would then have to spend additonal 16 money to get to work. So, if I take the -- and that area, 17 typically, affects the lower income side of the scale. In 18 that case, it should be as little as possible should be 19 spent, have to be spent, on transportation to and from work. 20 Q If we're not necessarily discussing the lower 21 income people, the average household, do you have any con-22

23 cept of that?

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MR. LATZER: Well, I would object to the question and I would ask you to define the word "average."

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1	MS. MASON: All right.	
2	MR. SCHMAUDER: I also object to	the form of
3	the question.	
4	MS. MASON: Mr. Frost has set for	th in his
5	particular report what he determines to	be the average
6	family household without actually setting	ng forth what
7	that number is. Maybe I should ask him	to clarify
8	that. I can refer you to where that is	in the report.
9	MR. LATZER: Yes.	
10	MS. MASON: All right. This is o	on the first
11	page, second paragraph, "The cost of tra	ansportation
12	for families living in those and many o	ther towns,"
13	on page	
14	MR. LATZER: What page is that?	
15	MS. MASON: I'm sorry	
16	THE WITNESS: First page.	
17	MR. LATZER: What paragraph?	
18	MS. MASON: Second paragraph. Pr	articularly,
19	he discusses transportation cost on page	e 5.
20	MR. LATZER: All right.	
21	MS. MASON: Third paragraph S	econd
22	Third full paragraph.	
23	A I'm sorry, can you paraphrase the quest	ion? Where
24	do the numbers come from, is that a fair way to	o paraphrase
25	the question?	

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1	Q Yes.
2	A How do I define them?
3	Q Right.
4	A The information that we used for income purposes and
5	commutation costs is taken from a publication produced by the
6	U.S. Department of Labor, Bureau of Labor Statistics. That
7	publication, I believe, breaks income into three groups,
8	lower, middle I won't I'm not sure the final term was
9	upper. We worked with the lower income group. That publica-
10	tion represented an average for the Northeast New Jersey
11	metropolitan area as of autumn of 1977.
. 12	As I indicated in the table on I'm sorry the
13	figure on page 6, that was adjusted to reflect 1979 values.
14	It was a simplified adjustment. A factor of twenty percent
15	was added to all the costs. The reason it was adjusted to
16	1979 is the automobile costs were available in 1979 and we
17	had to be adjusted for current gasoline prices. That pub-
18	lication gave a total income for what they defined as lower
19	as their definition and it also gave percentage dollar
20	expenditures for various budget items, including total
21	transportation cost.
22	It gave that item for people that did not own a
23	car and for people that did own a car. The double column

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If it's adjusted for 1979 based upon a twenty percent

graph on the far left of Figure 3 shows the difference.

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increase over from '77, the total income represented is
 13,386. The total disposable income after taxes, gifts and
 contributions becomes 10,879.

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Of that approximately eleven thousand dollars, eight 4 hundred and thirty dollars is for transportation if you do 5 not own an automobile, roughly fourteen hundred dollars is 6 for transportation if you do own an automobile. Those 7 statistics come from the Bureau of Labor statistics, adjusted 8 with the twen ty percent factor in 1977. Those are the 9 numbers that we used and are referring to in our analysis. 10 So, you're really -- you only did that Q 11 analysis for lower income --12 That's correct. 13 -- families. I assume that this same analysis Q 14 had some definition of moderate income families. 15 MR. SCHMAUDER: I object to the form of the 16 question. 17 Q Did this publication have any reference to 18 moderate income families and did you do an analysis of the 19 transportation costs? 20 MR. SCHMAUDER: I object to the form of the 21 question. 22 MR. LATZER: Do you understand the question? 23 THE WITNESS: I think so. 24 MR. LATZER: All right, why don't you answer it. 25

1 It had three breakdowns; one was lower, I believe the A other may have been referred to as moderate. 2 I do not remember what the term used for the higher level was. We did 3 not run through the same analysis for moderate income. I 4 believe the 1977 figures, although I would have to check it, 5 were in the high twenties for income, high twenty thousands. 6 7 I don't even remember what the upper or high level income 8 was. We did not run through the same analysis for all three 9 income groups.

As income goes up, in my opinion, the problem of 10 definition of the region becomes, I think, less critical, 11 12 because there is more money available for transportation. 13 As a general statement, the percentage of money which is 14 spent on transportation remains fairly constant percentagewise regardless of the income involved. So, obviously, more 15 16 and more money is available in the statistical budget as the 17 income increases.

18 Q You state in your report on page 1 that it has 19 been a long accepted maxim in the transportation field that 20 people will determine the location of their housing based on 21 the location of their job and that, given the choice, they 22 will live in close proximity to their place of employment. 23 Now, I wanted to ask you, upon what source have you relied 24 for that statement?

A One of the areas that my profession frequently gets

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involved in is modeling of transportation. The most common 1 portion of travel that is modeled, because it is the most 2 predictable, is the home-to-work trip. If you know, to 3 oversimplify the question, how many employable people there 4 are and how many jobs there are, it is a fairly well-defined 5 6 segment of the total transportation that relates to the home-to-work trip, because there statistically is a fairly 7 8 constant amount of employees who are sick on a day or 9 whatever and they all take place during a specific time 10 during the day.

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That is the most common segment of the transportation 11 12 which is analyzed. There are a large number of models avail+13 able to analyze this particular -- or try to predict this 14 segment of the total transportation picture. There may be 15 one, but I am not aware of one that does not have as a 16 direct input to the transportation model either distance 17 or time from the place where the trip originates to the place where it terminates, the origin and the destination 18 19 of the trip. The model is usually done in relation to time 20 of travel or, in some cases, distances of travel.

21 Statistically, you will find that an employee will tend to locate closer to his place of employment than further. 22 23 If you take and use the gravity model, which is, I guess, 24 the old -- I wouldn't say it's the oldest, but one of the 25 more standard -- that relates in general terms to the

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1distribution of trips to the inverse proportion of the2square of the time. In other words, the further away you3go geometrically, fewer and fewer people will make that trip.

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There are various probability models which, again, the probability is a decaying geometric function, and it is much more probable that people will, in fact, work closer to their home.

Now, these models were developed to represent what occurs in real life and when I talked about Atlantic City, although, frankly, we used a different model down there called a Fratar, F-r-a-t-a-r, model, I believe, when you go through this process, having established all the demographic data and all the employment data, you then attempt to synthesize what is currently in the field.

You build your model, you run out the results, you distribute the traffic and you look at a link of the network that you've established and say, hey, there are twelve thousand cars there and in real life there are eight thousand. You then go back and calibrate the model so that the two match. Then you use the model to project the future.

The models that I've talked about, they all have the -the various models that are available all have slight variations on the theme, but all of them input the distance to work as one of the prime variables and all of them can be calibrated -- I shouldn't say all of them -- but those that

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I am aware of and have worked with or read about can be 1 calibrated with a fair amount of accuracy on the home-to-2 work trip and all of them demonstrate that fewer -- a lower 3 and lower percentage of people want to live the greater 4 distances from their work. 5

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I think it's fairly standardized in the profession 6 that, typically, people want to live in close proximity 7 to their place of employment. 8

Would you define what you mean by "in close Q 9 proximity"? 10

I can't define it in a definite distance and after 11 a discussion we had prior to starting, obviously, there 12 are exceptions, but we both moved. Most people do not 13 look forward to taking a significant amount of time out 14 of their day to get to and from work. A lot of people are 15 cost conscious about the total cost of transportation and 16 would like to minimize both. I can't say that everybody 17 wants to live two miles away or anything that approaches 18 that and I can't give you a number. 19

There was some work done by, I believe it was, RCA 20 on their employee distribution which, I think, indicated 21 that the mean, I believe it was the mean, distance of 22 travel was seven miles to work. This was a suburban facil-23 ity. Frankly, I'm not even sure which one or how many of 24 their facilities were analyzed, but RCA did conduct such a 25

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In the work that we've done for AT&T, I, frankly, have not ever done the specific analysis that you're talking about, but if I was to estimate the distance, I would say that probably the mean is within twenty minutes travel time. That's an estimate.

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7 Q What is your opinion as to whether or not 8 housing opportunities should be located near employment 9 centers?

10AWell, to follow through what I've been saying, I'm11saying that they should be located in reasonable proximity,12reasonable travel distances, to employment centers. I'm not13saying they have to be located a thousand feet away, but they14should be within such a distance that the economic cost of15getting back and forth to work does not become a burden.16That's what, I guess, I'm saying.

17 Q On page 2, the first paragraph, you assert 18 that forty-six percent of the people living in Newark and 19 working in Essex County go to work in cars. Did you per-20 form a study in this regard?

A No. That information was an output of the 1970 census data which we obtained from some very large computer printouts from Tri-state, about a hundred of them. Anyhow, that information is the 1970 census data.

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Q

That information has not been updated, then,

in any way?

2 A No.

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Q All right.

4 A We were unable to find anything more recent, put it 5 that way.

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6 Q You also assert that it costs less than one 7 dollar a day to go to work for Newark residents within Newark. 8 What is your basis for that information?

9 A Well, I think there was an indication that, again,
10 from the census data, that Newark had -- over fifty percent
11 of the people had zero cars. One of my employees obtained
12 information on the available transit that exists within
13 Newark. While it's not extensive, there is intra-city
14 transit and that was an estimate based upon the fares charged
15 on that system to go back and forth via mass transit.

Additionally, there was an assumption that a majority 16 of those individuals, if they did take the car, were parking 17 for nothing. Most of the facilities down there, that I'm 18 aware of, anyhow, especially in other than the white collar 19 areas, do have some available parking and those who were 20 able to drive were not required to pay for the parking. 21 That was an estimate on our part and it was based on that 22 type of analysis. 23

24 Q Now, just to clarify for me, the people that 25 you say actually spend less than a dollar a day, what actually FIOST-direct

is their means of getting to work? 1

2 Well, in at least fifty-two percent of the cases, it Α was other than automobile. Because in at least fifty-two 3 percent of the cases, it was other than the automobile, at 4 least their own personal automobile. While we did not go 5 6 into it, because, frankly, I did not have data specifically 7 relating to Northeast New Jersey. As it indicates, Table 1 8 indicated that fifty-two percent of the people in Newark 9 had no automobiles, thirty-eight percent had one.

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10 Generalized data would indicate that, if you then 11 took that information and compared it to income, that the 12 fifty-two percent that do not have automobiles, as a general 13 statement, would fall into the lower income. Obviously, 14 there are always exceptions, but, statistically, vehicle ownership and the numbers of vehicles that a household owns, 15 16 there is a relationship to the income of the household. I would anticipate that, in the lower income groups, and it would be an opinion, because I do not have specific data for Newark, that better than fifty percent of the -- I'll use the term -- lower income households in Newark do not get to work in their own automobile.

Q Upon what is your opinion based? Well, that's what I'm saying, generally speaking, A that lower income groups do not have -- If you take a look at the portion of people that do not own cars, they

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エンタレールナン ビノ レ τv will tend to be at the lower income scale as opposed to the 1 higher income scale, generally speaking. Fifty percent of 2 the people -- better than fifty percent of the people, 3 according to the 1970 census, didn't own a car. I would 4 anticipate that that fifty percent is toward the lower end 5 of the scale and I would anticipate, based upon a consensus 6 7 of the data, that well over fifty percent in Newark, based 8 upon the data that I have available, would not make use of 9 their own personal car to get to work. Q Do you have any knowledge as to what percentage 10 of these particular households who do not have automobiles 11 are unemployed -- have heads of households unemployed? 12 No, I don't. 13 A Do you have any knowledge as to what percentage 14 Q of these people would be on welfare? 15 I don't, except I would expect that, again, you would A 16 17 tend to find that at the lower end of the income scale, obviously. 18 19 Do you have any knowledge as to how many Q 20 Newark residents work outside of Essex County? No, I don't. A 21 Do you have any knowledge as to how many Q 22 Morristown residents work in Essex County? 23 I have some information in the office relating to 24 Α 25 that, but it was, frankly, got a little confusing trying to

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1	look through it and I couldn't give you the numbers. As I
1	say, the sheets are there if someone would like to take a
3	look at them.

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4 MR. LATZER: Do you have David Zimmerman's 5 (phonetic) report, our planner, was that --

MS. MASON: No.

MR. LATZER: Do you know -- I just wanted to say that I thought these figures were there. I'm not saying you shouldn't ask the question, I'm just mentioning it to you.

MS. MASON: All right, thank you.

12 Q You also state in your report that automobile
13 availability, according to the 1970 census, also varied
14 significantly between the region as a whole and the Newark
15 area.

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That's correct.

Now, what region are you referring to? 17 Q 18 The statistical region that was used in analysis Α 19 of the 1970 census data. The 1970 census data was all put 20 on tape and you can regurgitate it, pick out all sorts of information. Frankly, I do not -- I would have to go back 21 and look up exactly what communities, if you would, were 22 included in the statistical region that that information 23 was derived from. Because it includes Northern New Jersey, 24 25 New York City.

.1	The New Jersey portion indicated that twenty percent
2	throughout this region, statistical region, had zero cars
3	versus fifty-two percent in Newark itself.
4	Q I'm just trying to get I'm sorry.
5	A All I'm indicating is, frankly, I couldn't list for
6	you all the towns that are included in the New Jersey region.
7	I would have to go back through and somewhere in one of the
8	pieces of paper that we have I'm sure it gives such a list,
9	but it's Northern New Jersey.
10	Q It's Northern New Jersey?
11	A Yes.
12	Q Do you have any knowledge of the cost of
13	commuting from Hudson County into Morris County?
14	A I don't know if we have information that relates
15	to that.
16	Q Do you have the cost of commuting from
17	Union County into Morris County?
18	A That one I could tell you, by mass transit, is almost
19	impossible. The only way to get from Union County, except
20	possibly from Berkeley Heights, New Providence, with the
21	Brie Lackawana service, which is the western, I'd say,
22	western portion of the county, those communities, you
23	could, in fact, go into Summit and then come back out on
24	the main line through Morristown. Union County, you would
25	have to either make use of the Con Rail Jersey Central or

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Con Rail Penn Central and go into Newark and I don't believe you can make a direct connection to get back to the area.

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You might be able to get off in Newark, get onto PATH, take that in, come back out on a different line of PATH, get onto the Brie Lackawana and come into Morris County and maybe a bus route, but I don't believe so, that runs into Union County, other than possibly, again, the bus route that serves along the Brie Lackawana corridor through New Providence and Berkeley Heights.

10I guess what I'm saying is you may be able to do it,11but it would be -- certainly the public transportation is12not directed between Union County and Morris County.

MR. LATZER: Could I just back up? On the last question, with regard to Hudson County, was your question directed to public transportation only or --

MS. MASON: It was the cost of commutation. He specifically --

THE WITNESS: I'm sorry, I thought you were addressing mass transit.

MR. LATZER: I'm sure he can answer the question as to the cost of automobiles.

THE WITNESS: Automobiles, I could work it out for you, given the mileage, and I just assumed you were addressing public transportation.

Q Is there any way to commute from -- well, to

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commute from Passaic County into Morris County on public 1 transportation, are you familiar with the cost? 2 I, frankly, would have to go back through and sit down 3 and look at the maps. I think you may be able to get from 4 the southern section of Passaic County into some of the 5 northern areas. It is not -- I wouldn't characterize it --6 if it, in fact, is there, it certainly is good transportation 7 and I don't have available costs. It may be in a file some-8 where, I just don't have it. 9 Q With regard to Bergen County, is the same 10 thing applicable? 11 I think it's the same comments. If it's there, it's 12 very cumbersome and can also be somewhat expensive. 13 Your graph on page 3, which is Figure 1, Q 14 appears to explain that there would be a daily commutation 15 cost even if you are traveling zero miles a day of travel. 16 That's correct. A 17 Q. Could you kind of explain that for me? 18 Yeah. We had a long discussion as to how to show 19 A that. If you take automobile costs, there's a fixed cost 20 whether the car leaves the garage or not. You have -- either 21 if you want to consider it a purchase cost on an ongoing 22 basis or a depreciation cost, or however you prefer to think 23 of it, that always occurs. You also have insurance costs. 24 There is an assumption that you will drive the car; so, 25

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therefore, you have insurance costs. You have registration fees, license fees.

And, so, prior to the first mile you ever put on it, there is a fixed cost and that's why the graph starts off in the range it does. Then, as you proceed to drive, there's an incremental cost on top of that. So, there is a fixed cost per day to own a passenger car even if you decide never to use it.

9 Q With regard to your figure on Figure 3, all 10 right, on page 6 --

A Um-hum.

12 Q -- we have discussed this somewhat before.
13 This is the figure from the Bureau of Labor statistics,
14 is that correct?

A Yes, that's what it's based upon.

16 Q Now, my understanding is that you state
17 certain New Jersey urban areas were selected.

18 A It is defined by the Bureau of Labor Statistics as
19 the New York-Northeast Jersey region. It reflects both
20 New York City, New York and Northern New Jersey.

21 Q And when you added the twenty percent infla-22 tion factor, what deficiencies was that actually to correct? 23 A All right. The information here is based both upon 24 that publication from the Bureau of Public Roads and the 25 cost of commutation by automobile. The latter is available

in 1979, although it was, I believe, a little part of the
year, but that was adjusted for current gasoline prices
as of September of this year. It would have been unfair
to use 1979 transportation costs in 1977 family income.
It would have made the percentages much higher, because the
total income was lower.

So, we felt that it was necessary to make a reason-7 8 able representation to adjust the 1977 information for family budgets to the current period. Frankly, we had a 9 fair amount of discussion as to what percentage to use. 10 We had some information that indicated it could be somewhat 11 slightly higher than twenty percent. Because, frankly, 12 we're trying to indicate magnitudes of numbers and not 13 actual dollars. One of the problems in my profession is we 14 end up with a number like 10,879, that's eleven thousand 15 dollars. 16

We used twenty percent. We felt that was a reasonable representation of the adjustment that we should make
for inflation since 1977.

20 Q And you estimated the gas prices as being 21 one dollar per gallon?

A I believe that was what we ended up using, yes.
Q In your report on page 5 in the first paragraph, it is stated that at least one car is needed for
transportation in all of Morris County. Could you give me

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your source for this?

That's a general statement. Obviously, it is possible A 2 to get a job and to work without owning an automobile. I 3 would say that that statement is a practical statement. It 4 reflects, in general terms, commuting in a suburban environ-5 ment. And the source of it, frankly, is based upon doing a 6 large number of traffic studies for corporate clients in the 7 suburban Morris County, Somerset County, Union County area. 8 General reading of general publications. I mean, I don't 9 have the source for it. It's the profession and working 10 in the profession provides the source. 11

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12 Q You state this is somewhat based upon studies 13 performed for corporate clients within the area. Could you 14 give me some idea of who they would be?

Okay. To use a specific, AT&T and the facility in A 15 Somerset County, AT&T does, in fact, provide a bus connec-16 tion, bus service, to the railroad for those employees that 17 would like to do it. I believe when the facility originally 18 opened, they scheduled three buses. I believe they're now 19 down to two. The one which leaves, and this would be based 20 upon about a year and a half ago, but the one that leaves 21 at their normal quitting time is, which I believe now is 22 four-fifty to five-twenty, but I'm not sure, is reasonably 23 full, forty-five-passenger bus. 24

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The one that leaves a half-hour after that has very

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few people in it and there's a facility that employs over 1 three thousand people and yet in the magnitude of fifty 2 or less and certainly less than a hundred are making use 3 of mass transportation. AT&T has had some success with 4 car-pooling. However, in discussions with AT&T -- with 5 One Ninety-five Broadway Corporation, which is the division 6 of AT&T which owns that building, with their personnel, 7 their indications have always been that the car pool system 8 that they have is a rotating car pool system in general. 9

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They have, based upon those discussions, but I can't 10 tell you the specific statement, everybody that car pools 11 still has their own vehicle. I think it is unrealistic, 12 based upon the information that I've read about and certainly 13 the studies that I have done, to assume that someone will 14 move to Morris County and will not own a car and I think, 15 in certainly a large majority and I would say in well over 16 ninety percent will make use of their own vehicle, automobile, 17 to get to work and may car pool, but they're still going to 18 own the car. 19

Car-pooling is only -- Car-pooling only works fre-20 quantly if you have a very large employment center to work 21 with. A small office building of, we'll say, thirty thousand 22 square feet, certainly the ones I've looked at, have never 23 had success with car-pooling. There's very little of it 24 that takes place. 25

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ドナンシット -- イヤナル・ Do you have any knowledge as to how many resi-Q 1 dents in Morris County do not own cars? 2 I can't give the number. I'm sure I have it at the 3 office -- I'm not sure I do, I take it back. I think we 4 were unable to get information from Morris County for the 5 1970 census on that number. As I say, I'm not sure, but I 6 think that's what the problem was. 7 And have you done any other studies that would Q 8 impact on your analysis of the need for one car in Morris 9 County? 10 Well, as I indicated, my analysis, frankly, is based 11 upon, I guess, all the various studies we've done, both in 12 Morris County and similar counties, such as Somerset County, 13 but I have not specifically done a study to try to make that 14 determination as based upon my experience in other studies 15 we've done. 16 With regard to your statement in your report, Q 17 that possibly two cars or more than likely two cars would 18 be necessary for residents in Morris County, do you have a 19 basis for that or is it somewhat the same? 20 Again, it's general information relating to the 21 transportation field that, along with suburban living, 22 fortunately or unfortunately, comes both, to a certain de-23 gree in many cases, the need for a second vehicle and beyond 24 that, the statistical probability, if you would, that a 25

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1 second vehicle will be in the household. The type of area
2 that Morris County represents, rightly or wrongly, is depend3 ent upon the automobile.

Most destinations of a trip in a county like Morris County are of sufficient length that they require some means of transportation other than walking and the most common means is the private automobile. It's unfortunate or as bad as that may be, that's the way we managed to design things.

(Whereupon, a brief recess is taken.)

MS. MASON: First of all, I should state that when I ask these questions and I point to a particular section of the report, I'm referring to P-6 in all regards, unless I state otherwise.

17 Q In your report, you state that the jobs are
18 remaining in eastern Essex County. You state this on page 5,
19 fourth paragraph. Could you give me some idea of your
20 source for that and where in eastern Essex County you per21 ceive the employment centers as being?

MR. LATZER: You're referring to the fourth paragraph?

MS. MASON: Yes.

MR. LATZER: Could I have a line? I would

1	like to
2	MS. MASON: Fourth full paragraph.
3	MR. LATZER: Starting with the paragraph,
4	beginning with the paragraph
5	MS. MASON: "Clearly"
6	MR. LATZER: Okay.
7	MS. MASON: Fifth line, it's in parentheses.
8	MR. LATZER: Forgive me, I didn't understand
9	the question.
10	MS. MASON: The question is, he states that
11	the jobs are remaining in eastern Essex County.
12	That's my understanding of
13	MR. LATZER: That's what I'm looking for.
14	MS. MASON: I think you're on the wrong para-
15	graph. Fourth full paragraph. It starts with,
16	"Clearly"
17	MR. LATZER: I see it.
18	THE WITNESS: Do you have any objection to
19	my answering it?
20	MR. LATZER: Let me just read the paragraph.
21	Would you read the question back? Just tell me
22	what your question is again.
23	MS. MASON: My question is, where does he
24	assert that the job centers are in the eastern
25	Essex County and what is his source for this.

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1	MR. LATZER: Would you mind rephrasing the
2	question and could you, because I'm missing something,
3	could you just refer to the specific language and ask
4	him to explain it? Would you mind doing that?
5	MS. MASON: No.
6	MR. LATZER: Thank you very much.
7	Q I refer you to the specific language in para-
8	graph 4 on page 5 of P-6, which is your report, wherein you
9	state that, "while the jobs remain in eastern Essex County."
10	Could you define that for me, please?
11	A Well, I think that the statement you have is in
12	parentheses and the sentence starts out, "Assuming that the
13	transportation network were adequate to handle the change in
14	traffic patterns brought about by the relocation of large
15	numbers of family units from eastern Essex County to Morris
16	County (while the jobs remain in eastern Essex County)."
17	That states purely and simply, assuming that the jobs remain
18	there. I have no reason to believe that the jobs are going
19	to move to Morris County. I have some reason to believe
20	they probably won't, but I am assuming that the jobs are
21	going to remain in eastern Essex County.
22	Q Upon what is that assumption based?
23	A I don't know where else they're going to go.
24	Q Where do you think within eastern Essex County
25	these jobs will remain?

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Well, I think, as we indicated, I believe we indicated A 1 in the report early on, to simplify the point that we're trying 2 to make, we have talked about Newark as it relates to Morris 3 County. Certainly, that's an oversimplification and I think 4 we indicated that or implied that. If I'm, therefore, 5 addressing myself, to try to simplify this, to Newark, I'm 6 assuming that the jobs in Newark are going to remain in 7 Newark. I would assume Newark is going to hope they're going 8 to increase in Newark. 9

23

I think, maybe, the crux of the problem is you would 10 like to see, maybe everyone would like to see, every possible 11 employment center addressed both in general terms and in 12 specific terms from a practical limitation of time, plus the 13 cost and the legal fees, which make the lawyers happy. You 14 can't do that type of thing. We had to break it down and 15 try to simplify the approach. To indicate the point that 16 we're trying to make, the transportation cost is a serious 17 consideration in defining a region. 18

I have no reason to believe that the jobs are going to move out of Newark. I have some reason to believe that they are not going to move into Morris County and we are assuming in that statement that the jobs are going to stay where they are, but the people would move.

MR. ONSDORFF: What is the basis for your belief that they will not be moving into --

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1	MR. LATZER: I do object to this procedure.
2	Are you now going to be questioning for some period
3	of time or is this are you only asking a
4	MR. ONSDORFF: A follow-up question.
5	MR. LATZER: I really think I would object to
6	this and would appreciate it if you would put the
7	questions from the one questioner. I don't object
8	to it being segmentalized, but I do object to that.
9	MR. ONSDORFF: Okay. I feel that you may want
10	to state your objection, because I believe you are
11	changing your position on that and I think that it's
12	not oppressive to the witness. I don't think that
13	in any way has confused him or made it difficult for
14	him to answer. So, if you can just state for the
15	record your objection, I would appreciate it.
16	MR. LATZER: Right. The segmentalizing of
17	questions were not oppressive and, in my opinion,
18	the questions within the same segment that are
19	alternated between counsel are inherently oppressive
20	and I object.
21	MR. SCHMAUDER: I likewise object and I made
22	my objections clear at the outset.
23	MS. MASON: Could you read back for me
24	Mr. Onsdorff's statement?

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1	(Whereupon, the Reporter complies with the
2	above request and reads back the following:
3	"MR. ONSDORFF: What is the basis for your be-
4	lief that they will not be moving into")
5	
6	Q What is the basis for your belief that they will
7	not be moving into Morris County?
8	THE WITNESS: I proceed?
9	MR. LATZER: Yes, please.
10	A Simply, certainly the areas where historic growth has
11	taken place over the past few years, and I won't define "few,"
12	the ability to get to the place of employment is becoming
13	more and more difficult. The transportation system serving
14	the county is becoming more and more of a problem and it is
15	my opinion that Morris County, which has experienced some
16	significant growth in employment in the past, that growth rate
17	is going to start to deteriorate, frankly, because of the
18	inability to gain access to the employment centers.
19	Q What do you perceive the employment centers in
20	Morris County as being? I'm not certain I understand that.
21	A I think the term "employment center" maybe is the
22	wrong term. If I refer to an employment center, I may be
23	I'm probably referring to a single office building, a location
24	where an industry or a business or whatever moves in. The
25	people have to be able to get to that building. Obviously,
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if the tenant of that building or the owner of that building 1 is going to succeed, historically, at least part of the reason 2 for the relocation of offices and whatever in the suburban 3 areas has been both the job market, certainly, but I'm not 4 addressing that, but the ability to get to the site with a 5 relative degree of convenience to the employee. 6

Morris County, among other places, has benefited from 7 reasonable accessibility, except as employment has continued 8 to grow, the ability of the transportation system to serve 9 that employment is rapidly deterioriating and businesses will 10 start to look elsewhere to locate. 11

I'm beginning to get a bit confused. In your 12 report in certain areas, I could probably refer you to at 13 least one of them, you speak repeatedly of employment centers 14 and I'm no longer understanding what you mean by that term. 15 On page 1 you have stated, first paragraph, you have discus-16 sed -- referred to, rather, employment centers of Newark, 17 Hudson and Union Counties. In the second paragraph, you 18 state, located as far from the employment centers as Kinnelon, 19 blah, blah, blah. I'm not understanding what you mean by 20 "employment centers" now. 21

You're talking about one building? I'm trying 22 to determine where you perceive the massive areas of employ-23 ment. 24

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My latter discussion, I'm physically talking about a

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building or a complex of buildings as opposed to an employ-1 ment center of Newark. I'm referring to the decision on the 2 part of a, I'll use the term, developer to build a facility 3 and employ a group of people. Obviously, expansion in em-4 ployment is not going to come to a complete hault, but the 5 probability, in my mind, of a massive office development in 6 the very high hundreds of thousands of square feet or even 7 in the low hundreds of thousands is becoming less and less 8 probable in Morris County because of the inability to gain 9 access to that development, specific development. 10

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What do you perceive as those areas within Q 11 Morris County which has a high level of employment centers? 12 Well, certainly I pick Parsippany-Troy Hills. 13 A Parsippany-Troy Hills has had a tremendous amount of office 14 growth in the last -- I won't define the period of time, but 15 it's still going on. I think anyone who's knowledgeable 16 with Parsippany-Troy Hills realizes that the transportation 17 system serving this nonresidential development is rapidly 18 approaching a saturation point. At such time as it does, 19 a prospective tenant or a prospective developer will start 20 to look elsewhere where to put up his building. 21

So, if you want -- I don't consider Parsippany-Troy Hills as an employment center, but certainly there has been a large amount of construction activity in that area. As an example, there has been a large amount in the Morristown

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1	area, as an example, and from a practical standpoint, one of
2	the reasons that these locations were chosen was good access.
3	And if the access isn't there, they won't build there.
4	Q Are there any other hubs similar to the
5	Parsippany-Troy Hills area in Morris County, I mean, hubs
6	of employment?
7	MR. SCHMAUDER: Objection to the form of the
8	question.
9	MR. LATZER: Can you answer it, do you under-
10	stand it?
11	THE WITNESS: I understand the question.
12	A I'm not in a position to sit down and list off every
13	single large office development in the county. I could give
14	examples. Certainly an example historically has been Exxon
15	in Florham Park. It may be a good example because Exxon has
16	now decided, with still a large amount of land available
17	in Florham Park, to make the next large construction project
18	in Clinton where they don't have the access problems.
19	Ω Let me ask you a question, then. On page 1,
20	the second paragraph, of your report, the second sentence,
21	"To consider Morris County communities located as far from
22	the employment centers as Kinnelon, Jefferson, Roxbury,
23	Mount Olive or Washington as part of the relocation region
24	does not deal with reality."
25	A In that case, in your original concept of the Newark

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region as being an employment region and then when I went
into the latter discussion, yes, I should have used a different term. I'm not sure what I would have used, but I should
have used a different term.

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Q I want to make certain, what exactly do you
define in this context of this sentence as "employment centers"?
I'm trying to understand that.

8 A That as opposed to a site specific, we're now talking 9 about an area where there is a large amount of employment. 10 I'm talking about the Newark area as opposed to site 11 specific in an Exxon building.

All right. Now, back to the jobs remaining in eastern Essex County. I'm trying to get a handle on where you might mean it. I understand you stated that was an assumption, but I'm not understanding what impact that has on your overall statement.

MR. SCHMAUDER: Objection to the form of the question, because it isn't even a question.

19 Q What is meant, if you could further clarify
20. for me, what do you mean on page 5, paragraph 4 by "while
21 the jobs remain in eastern Essex County"? I would like to
22 have some idea of where you are speaking of.

A That's a general reference to the Newark area, because we have been addressing the Newark area as an employment center in the larger term.

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1QOnly the Newark area, is that the response?2AI'll make the statement that the Newark area is an3area using Newark as a name to define it. It has a large4amount of employment associated with it and I'm referring to5that large employment area.

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Q The reason I ask is that previously you have
discussed other employment centers in your report. Page 1,
the first paragraph, you discuss employment centers in
Union County and Hudson County, you refer to them. I'm
not certain exactly what you mean.

A I believe we indicated --

NR. SCHMAUDER: I object -- before the answer is given -- I object to the characterization. Are you now repeating? And if you wish to repeat, I suppose that's your prerogative to try, but I do object to it and I also object to attempting to put, I think, words upon what has been said that haven't actually been used.

19MS. MASON: Thank you. The objection has20been noted.

Q I am trying to determine --

22 MR. SCHMAUDER: What does that mean, Counsel, 23 my objection has been noted?

MS. MASON: For the record.

MR. SCHMAUDER: We're all aware that there's

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. 1	a court reporter taking down everything being said
2	MS. MASON: I am going to try to clarify my
3	question, if you could just wait a second.
4	Q With regard to your answer to this question,
5	previously in your report you have spoken of employment
6	centers, on page 1, first paragraph, in Newark, Hudson and
7	Union Counties. What I'm trying to determine is, are you
8	including those in your concept of the Newark region?
9	A No. The intent is in an effort to try to put things
10	in a more simplified role. We are using the Newark employ-
11	ment area as an example. We did not go through we did
12	not then take a look at another employment area, a fourth
13	employment area, we took that employment area for the pur-
14	poses of discussion in this report.
15	Q How large would you characterize that area
16	as being?
17	MR. SCHMAUDER: I object to the form of the
18	question, because it is not clear what you mean by
19	it.
20	Q Does this area comprise more than the City
21	of Newark?
22	A Yes, I would say probably it does.
23	Q Can you possibly tell me what the other areas
24	A No. We're dealing with a concept. I don't think any-
25	body will deny that there's a large amount of employment in

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Newark and that the Newark area has at least a reasonable 1 definition of an area where people both live and work and 2 so forth. We're referring to that area. I am not attempting 3 to define a specific number of jobs or specific number of 4 people. 5

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How many jobs have relocated into Morris 6 Q 7 County, do you have any knowledge of the number of jobs 8 that have relocated into Morris County since 1950?

> MR. LATZER: I don't understand the question. I will ask that you rephrase it, please.

Do you have any knowledge as to the number 11 Q 12 of commercial enterprizes that have relocated into Morris 13 County since 1950?

(No response.) A

Q Do you understand the question? 15 I think I do. No, I don't have a specific number. 16 A 17 I don't have knowledge of a specific number.

18 Would that be true as to 1960 and '70 also? Q 19 A That is also correct.

20 Q Do you have any knowledge as to the number of existing commercial enterprizes within Morris County 21 that have expanded? 22

23 A I do not have a specific number, no.

Do you think that the concept of car-pooling 24 Q 25 has had any impact on the transportation system in Morris

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- 1	County?
2	MR. LATZER: Just a point of clarity. You're
3	talking about the concept of car-pooling?
4	MS. MASON: Yes.
5	Q By that, I mean, do you think that or do you
6	have any knowledge as to whether or not there are commercial
7	enterprizes or private enterprizes, whatever, within Morris
8	County that have begun to utilize car-pooling?
9	A That's two different questions. Which one should I
10	answer, or both?
11	Q Answer the latter, please.
12	A Yes, and, by definition of the concept, has an impact.
13	Yes, there are industries which do have car-pooling in Morris
14	County.
15	Q Has this had any impact on the overall trans-
16	portation capabilities within the county?
17	A If you manage to get two people in one car where
18	there used to be two cars, it has an impact. So, it does
19	have an impact.
20	Q Is it an appreciable or significant impact?
21	MR. SCHMAUDER: I object to the form of the
22	question. What do you mean?
23	Q How would you characterize the impact?
24	MR. SCHMAUDER: I object to the form of that
25	question also. It is not clear what you're referring

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1	to.
2	Q How would you characterize the impact of car-
3	pooling by various industries within Morris County on the
4	entire total transportation system?
5	MR. SCHMAUDER: I object.
6	Q Transportation capabilities of the county.
7	MR. SCHMAUDER: I object to the form of the
8	question also, because it's not clear what your
9	understanding
10	Q Do you understand the question? If you don't,
11	I will try and rephrase it.
12	A I think so.
13	MR. LATZER: Well, why don't you answer it
14	as you think it is put? So, you may or may not have
15	the question.
16	A I would characterize the concept of car-pooling as
17	being helpful. Very difficult to define the term "signifi-
18	cant." In my mind, it is more helpful than significant,
19	given the fact that both of those are qualitative terms.
20	Q To try and further clarify, what impact do
21	you feel this would have on the tele-transportation system,
22	do you have an opinion as to the number of companies that
23	may have utilized car-pooling since 1960 in the Morris
24	County area?
25	A I'm not trying to avoid the question, but from a

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practical matter, most every company at one point or another 1 has probably used car-pooling, unless there's only one person 2 in the company. Because all it means is that two people came 3 in the same car. There has been, both on a state level and 4 a federal level, a policy decision to support, encourage, 5 arm twist, coerce companies to utilize car-pooling. With 6 7 larger corporations, it has tended to be a much more struc-8 tured campaign than with smaller companies. Larger companies 9 have, certainly as a general statement, I think, complied with the effort. 10

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I can't tell you how many companies do it. I can tell you that, in the case of the ones that I have looked at, it has had some helpful impact, but I haven't felt that it was significant or I couldn't tell you the total number of companies who actively are encouraging car-pooling in Morris County.

17QOn the bottom of page 5 continuing onto page 718of your report, P-6, you state that there will be the need19for increased parking facilities if there is, in fact, an20increased employment within the Morris County area. I'd21like to know if you feel that there are any alternatives22to having to provide additional parking spaces?

MR. LATZER: Could I ask that you not paraphrase? Could you just read, if you don't mind? MS. MASON: Certainly.

1	MR. LATZER: It makes it easier for me, anyway.
2	Q The bottom of page 5, you state, "employment
3	locations which, in the past, have relied upon non-automobile
4	commuters for their employees will be faced with the need for
5	increased parking to park the automobiles for those individuals
6	that come to work. Whether these businesses would remain
7	at their current location, provided the parking at significant
8	additional costs, is open to speculation."
9	My question is, do you perceive of any alter-
10	natives to having to provide, these companies having to
11	provide, additional parking spaces?
12	A There are always, in theory, alternatives. If you
13	look at it from a practical standpoint, however, it is my
14	opinion that there would have to be a significant increase
15	in parking at existing employment locations if the people
16	that currently work there continue to work there and now
17	become totally dependent and "totally" is qualified
18	become primarily dependent upon the private automobile.
19	Are there alternatives? In theory, they range from
20	building rail lines to serve them, which I think is an im-
21	practical comment on my part, to the fact that, certainly,
22	if parking is at a premium, you have a practical pressure
23	for people to car pool and whatever. But there is no doubt
24	in my mind that there will have to be an expansion in parking
25	at those locations. The need cannot be eliminated.

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Have you completed your answer? Q 1 I think so. A 2 Do you have any knowledge as to whether or not Q 3 there has been a reduction in parking spaces or facilities 4 within the City of Newark or, sorry, within your concept of 5 the Newark region since --6 MR. LATZER: Newark center. 7 A Employment center as I defined it? 8 Yes, employment center as you defined it. Q 9 I have no knowledge of a general overall reduction in Α 10 parking as it relates to the existing employment locations in 11 the employment center. 12 I'm not trying to be repetitive, but I want to Q 13 make certain that I understand this particular point. Is it 14 not your testimony previously that you would be unable to 15 define the employment centers -- I mean that in the same type 16 of way that you would mean a Newark employment center --17 within Morris County? 18 I don't know whether I'd be unable to, I just have not 19 A for the purposes of developing the information in the report. 20 Because I, frankly, don't think it's that important to be 21 able to draw a line around it. We're dealing with a concept 22 in here. I'm not attempting to relate it to a job and a 23 home. All we're trying to get across is the point that if 24 you increase the travel distance for someone and/or require 25

them now to take a different transportation form which costs
more money, you are using up more of their disposable income
and I think that's wrong. I think it's wrong from a transportation standpoint also.

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5 Q What is your opinion as to what areas would 6 constitute the employment center areas in the same manner 7 in which you defined your Newark employment center area for 8 Middlesex County?

9 MR. LATZER: If you can answer that question. 10 A I'm not sure I'm going to try to, because I personally 11 don't think of it along the same lines. So, I think I would 12 try not to answer the question or ask not -- or whatever the 13 term is, I'm not going to try.

> MR. LATZER: Could I just question the relevancy of the question, please?

MS. MASON: Yes. I'm trying to determine --He has particularly spoken of areas within Morris County and other surrounding counties where he's discussed employment centers. I am trying to look at what are the other employment centers in the other eight county areas set forth in the DCA report that we have determined to be our region. I understand that he has not determined that to be his region, but in terms of our actual overall litigation, I'm trying to understand, you know, I'm trying to put it

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1	in the focus of the concept of our region.
2	MR. SCHMAUDER: I object. Because it seems to
3	me, if you wish to do that, you ought to do that
4	through your own experts and this expert has not, as
5	I understand it, been submitted for the purpose of
6	attempting to analyze your report, nor has he been
7	submitted for the purpose of attempting to establish
8	locations of employment centers in Middlesex County.
9	Q Inasmuch as you have discussed many other
10	counties within your report in terms of commutation cost and
11	that type of thing, are you saying that you prefer not to
12	answer that with regard to Middlesex County, Passaic County,
13	Bergen County, any of the
14	MR. LATZER: Could I ask you, are you able to
15	answer the question?
16	A Yes, I guess I'm not because I don't think of I
17	don't think of it as quite along the same lines. But, so,
18	I guess I'm not able to answer it from the standpoint that
19	I'm not sure the two are totally comparable in the way I'm
20	thinking of it.
21	Q How do you make your distinction in trying
22	to determine that?
23	A I go back. The purpose of the report is to demonstrate
24	what I consider to be a legitimate point, that transportation
25	has a very serious impact, the cost of it, also, has a serious

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1	Q Let me refer you to your report on page 8, first
2	paragraph, wherein you state, "A review of the existing road
3	network serving Morris County indicates a growing problem in
4	terms of capacity on all major roadways providing access to
5	employment centers in Passaic, Bergen, Hudson, Essex, Union,
6	Middlesex and Somerset Counties." Could you please define
7	for me
8	A Certainly. To get from those counties into Morris
9	County, you have to cut across the county line. It's
10	immaterial to me whether that employment center is right at
11	the county line or it's at the other end of the adjacent
12	county. There are limited number of arterial roadways and
13	an even greater limit of mass transit systems that provide
14	an intersection between those counties. There is a serious
15	growing problem in Morris County with the available capacity
16	on roads which would typically serve intercounty movement.
17	The report is not intended to be site specific. The
18	report is intended to give a general representation as to
19	the availability of, in this case, capacity of that roadway
20	system. If the system does not have the capacity to take
21	a large number of trips back and forth through these arterial

roads, it's incidental in this part of the report -- which
is not dealing with the cost of economics, but, frankly,
dealing with the capability of that transportation system -it's incidental to me whether they get off two miles into

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1	Passaic County or ten miles into Passaic County, but certainly
2	there are cities in those counties or specific development has
3	occurred in those counties which generate employment.
4	The purpose of the report, bottom line of the report,
5	is, from a transportation standpoint and from an economic
6	standpoint dealing with transportation, to encourage or re-
7	quire long distances of travel is wrong. It places a burden,
8	an unnecessary burden, on the transportation system and an
9	unnecessary burden on the people who are now having to make
10	that trip.
11	Q With regard
12	A I don't care where they go.
13	Q With regard to this same sentence, Mr. Frost,
14	could you indicate for me could you state for me what you
15	perceive the major roadways providing access from these employ-
16	ment centers in Passaic, Bergen, Hudson, Essex, Union,
17	Middlesex and Somerset Counties?
18	A Well, I could give you examples. Certainly, from
19	Somerset County 287, 202, 206 are arterial roads. Of the
20	three, 287 has the principal capacity, what's remaining of
21	it. Can't hardly get to Union County, to use a colloquialism.
22	The closest you can come is in through Route 24, which, really,
23	services a limited portion of Union County. Some day in my
24	lifetime I would believe that 78 will be complete, which will
25	assist access to Union County.

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Essex County, there are a number of east-west arterials 1 which carry high volumes of traffic, 280, 80, to service 2 Essex County, Route 10, Route 46 and you would probably drop 3 down to some of the county level roads, such as Columbia 4 Turnpike. Similar types of road systems are available for 5 6 Passaic County. But, again, the number of corridors that provide sufficient capacity are relatively limited and if 7 8 you take a look at the volumes utilizing those roads and 9 compare it to the capacity of the road, the ability of that road to carry traffic in a reasonable manner, you'd find that 10 you're running out of room on the roads. 11

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12 Certainly, it is always possible to make use of local 13 streets and, as a matter of course, as the road operation deteriorates, more and more people will start to make use 14 of those streets. But with that you get an increased 15 transportation cost and, certainly, a sufficient increase in 16 17 the impact. The purpose of this section is simply to gener-18 ate that there is a practical limiting capacity on the ability 19 of the road system serving Morris County to handle intercounty 20 traffic.

21QHave you performed the study of the capacity22capabilities on the roads that you've just mentioned?23ASome of them, yes.

24 Q When did you perform this study and what was 25 the nature of the study?

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1	A Well, we have looked at them during the course of our
2	engagement in this project. We have also looked at them
3	prior to that time.
4	Q I'm sorry, did you say you have looked at them?
5	A During the course of this project and also prior to
6	that time. I don't want to go into other studies performed.
7	I think the question was, what was the nature of that, is
8	that what you're asking?
9	Q Yes.
10	A Simplified terms, we obtained recent volume informa-
11	tion for the roads, the amount of traffic currently utilizing
12	the road and we also developed it to the area that we had
13	the volume information, a capacity or an operating level of
14	service volume for that road, which gives an indication of
15	how the road is functioning and it also gives an indication
16	of the ability for that road to handle additional traffic
17	in the future.
18	Q You gathered all this information yourself
19	as part of your study?
20	A Traffic volumes are from secondary sources, either
21	the county or the State Department of Transportation or we
22	already have performed a count for some prior study. We
23	did not go out and do field studies particularly for this
24	project.
25	Q Is the information relating to these studies

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1	contained in the subpoenaed files?
2	A I'm sorry, say that again.
3	Q Is the information relating to these studies
4	contained in these subpoenaed files?
5	MR. LATZER: I don't want to be highly tech-
6	nical, but I have read your subpoena. Could we just
7	refer to it as that which was requested in $P-1?$
8	MR. ONSDORFF: That's correct.
9	MR. LATZER: Okay.
10	A That refers to everything I have and the information
11	referred to is contained within everything I have. I do
12	not necessarily have the information here. I don't have
13	all the traffic counts here that we have in our office,
14	nor do I have all the ADT counts provided by the State. I'd
15	be more than happy to make them available. If you have a
16	specific piece of information you want, we'll get it for
17	you or you can have someone take a look at it. That's what
18	we did with the Department of Transportation.
19	MS.MASON: Counsel, could I request that if he
20	does have the background information on his studies
21	in his files in his office, wherever they are, if
22	we might have access to that information?
23	MR. LATZER: Yes, I think we can state that if
24	you would just, you know, call a couple of days in
25	advance, I would see no reason why you wouldn't be

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welcome to come to the off	ice and examine them. Is
that all right?	
THE WITNESS: Yes.	The traffic volumes are in
a large three-ring binder.	I don't think you want to

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go through the cost of xeroxing the entire contents. If you want a sheet, fine, or whatever.

7 Q In your report, you mention the Highway Research
8 Board Special Report AD-7, also known as the Highway Capacity
9 Manual. That's a federal document.

MR. LATZER: Could I have the page reference? MS. MASON: Page 8, paragraph two.

That's a document which is produced by the National A 12 Academy of Sciences and then a couple of levels underneath 13 it which I won't try to recite the names of. I believe 14 that operation receives sufficient federal financing and 15 state financing. It also receives private financing, but 16 it's an entity unto itself. So, it is not a, in my mind, 17 anyway, a state or a federal organization. It is an organ-18 ization of people in the broad spectrum of science and 19 engineering and one of the subdivisions deals with highway 20 and traffic and transportation people, they produce that 21 report. 22

That is considered to be the standard in the industry for doing this type of analysis.

From a transportation perspective, what, in

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1	your	opinion,	are	the	most	densely	populated	areas	within	
2	Morri	is County?	?							

MR. SCHMAUDER: I object to the form of the question, because I -- it's not clear to me whether you're asking what road areas in Morris County are presently the most heavily trafficked, is that the question?

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MS. MASON: No. I would like to know -as a transportation planner, I'm sure that he has done some studies of or has knowledge of what areas within Morris County are the most densely populated in terms of people living in those areas.

MR. SCHMAUDER: I'm sure you can ask a question like that if you wish to, but that isn't what you asked.

A I'm not, frankly --

Q Understanding the question?

Well, I think I understand the question, but I'm not Α 18 sure I could answer it in anything that was in a complete 19 form without, frankly, sitting down with a map and some 20 demographic information and so forth and so on. I can't 21 tell you, nor, frankly, do I have, off the top of my head, 22 a sheet of paper that says this town has so many people 23 per square mile, which would be one form of density, or 24 housing units per square mile, per acre, whatever form we 25

used. So, any answer I would give would have to be general ized in nature and I guess I would just as soon say I can't
 answer the question because I can't do it completely off the
 top of my head.

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5 Q In terms of drafting your report, did you rely
6 on any population studies?

7 A We had population information from both the '70
8 census and some information provided by other experts in this
9 case, although I'm not sure where that leads us.

10 Q Who are those other experts?
11 A Okay, there's Mr. Zimmerman, Dave Zimmerman, Rich
12 Copola, C-o-p-o-1-a, Professor Mills (phonetic) had some
13 information.

MR. LATZER: There are -- Whatever reports you have, I mean, they would speak for themselves. Q All of them?

A I quess ---

MR. LATZER: Wait a minute. I don't think that question is material as to what he knows about the other reports.

MS. MASON: Well, he has stated my understanding of his answer. My question was, what population
projections did he rely upon -- population, I'm sorry,
population reports did he rely upon in drafting his
own report and he stated the 1970 census as well as

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· , 1	the reports of other experts and I wanted to know which
2	experts.
3	MR. LATZER: All right. You understand the
4	question then. I didn't think you were responding to
5	that question.
6	THE WITNESS: Yes, I guess I understand the
7.	question and I guess I gave the answer.
8	Q But are you saying all of the other expert
9	reports that relate to population?
. 10	A Am I saying I have looked at all the other reports?
ž 11	Yes, I have looked at the other reports. Part of my problem
12	is I'm not quite sure what the purpose of the question is.
13	If I knew that, maybe I'd be better able to answer it. I
	don't know if that's a fair statement, Counselor, or not.
3 8 15	MR. LATZER: I guess he doesn't understand the
³³ 2 16	question.
17	THE WITNESS: I don't know where we're going
18	with the question. I have population information
19	and I have looked at it and that's fine, but
20	Q I'm just trying to determine precisely what
21	population information you have reviewed
22	A That I answered.
23	Q in terms of drafting your report.
24	A That I answered.
25	Q To my satisfaction, I am not clear yet exactly

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1	if you are saying you have relied on all of the reports of
2	the expert witnesses in terms of your population, in terms
3	of determining your population with regard to your report.
4	A I don't think I speak about a population in here.
5	So, that's why I don't understand the question.
6	Q Well, I'm assuming that when you discuss the
7	numbers of people within Morris County in your report that
8	you have some idea
9	A Where specifically would you give me a reference?
10	Q All right, let me look through this.
11	
12	(Attorney Mason refers to document.)
13	
14	Q Let me ask another question.
15	A Could you specifically indicate to me where in here I
16	made reference
17	Q I'm withdrawing that question then. Did you
18	rely on any population reports at all, that's my only
19	question?
20	MR. SCHMAUDER: I again object to the form of
21	the question. It seems to me the witness has indi-
22	cated to you his total confusion as to what you mean
23	when you make a statement like that and he's indicated
24	to you he doesn't understand what you're referring to
25	specifically when you speak about the phrase "relying

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upon population."

MS. MASON: Well, I'm a bit confused.

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My first understanding is that you did, in fact, Q 3 rely on population and then later on you say you did not rely 4 on population in this report. 5

I don't think I said either one of those. I'm just A 6 saying --7

I'm trying to understand. 0

You asked me what population figures I had available Α 9 and I indicated 1970 census, plus the information submitted 10 by other experts, which I think one way or another was keyed 11 into the 1970 census and/or updated projections by other 12 agencies of themselves. Certainly, I have knowledge of 13 population in Morris County, but I'd be better able to answer 14 the question if I knew what specifically you were referring 15 to in the report, because I'm not sure how anything in the 16 report specifically relates to any particular population num-17 ber and that's where, I guess, I'm confused. 18

Let me ask you another question. When you are Q 19 discussing in your report the various capacities of road-20 ways, what are you using as the basis for your discussion 21 of those capacities of roadways? 22

The technical capacity of the roadway and the existing Α 23 volume that is currently utilizing the roadway. 24

> Could you explain to me the concept of level Q

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A Certainly, I'll try. The profession, in the 19 -or in the capacity manual, attempted to deal with the problem of being able to describe to the general public in a qualitative term how a road operated and then be able to relate that qualitative term back to a quantitative analysis. The concept developed was level of service, which ranks from A through E, with A being the best level of service.

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Now, those levels of service were also established in 9 such a way that a particular level of service, it has a 10 qualitative description and -- I'll go back to what that 11 qualitative description is -- also reflected a quantitative 12 number that you would use for design purposes which the 13 profession has established through the years as being a 14 reasonable amount of traffic to use a particular type of 15 roadway. 16

Now, the qualitative analysis I indicated was defined
in level of service and it is an attempt to reflect to people
outside the profession how the roadway is operating in terms
which they can most easily understand, which is freedom of **movement** and convenience to the driver, or lack of congestion,
to use a common term.

The level of service A, in an oversimplified statement, for a highway, because they do vary depending on the types of roads involved, would mean that you would have FIOST-ULLECT

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freedom of movement while driving a car. Neither your speed that you traveled at, nor your ability to change lanes, to enter and exit the roadway would be affected by the volume of traffic on the roadway. That's level of service A.

It deteriorates down to level of service E, where you 5 no longer have any freedom of movement. I don't want to say 6 you don't control your car, but your use of the car on that 7 roadway is controlled by the other cars. In other words, 8 you don't have freedom to change lanes, you don't have free-9 dom to speed up, you are now traveling as part of a large 10 pack moving down the roadway; and, at the same time, level 11 of service B, during at least a significant portion of that 12 time, you're not moving because of the congestion, the stops, 13 the delays involved. 14

Now, you don't design for level of service A, because 15 that type of freedom is not -- at least the profession does 16 not feel it is necessary that people have complete freedom 17 of movement of their vehicles both as to speed and changing 18 lanes. You do not design for a condition where there is 19 severe congestion, stoppages, difficult to get on and off a 20 road, significantly difficult to get on and off a road. 21 You design for something in between, depending upon the type 22 of facility and the area where that facility is located. 23 In Morris County, it would be level of service C. 24

You then talk about a service volume. You then go

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through a procedure to determine what the volume of traffic 1 is that corresponds to that level of service C. Now, level 2 of service C for a freeway means that you are able to maintain 3 the design speed, or the posted speed limit. You can change 4 lanes, although you would expect, besides some interference 5 of doing so, you don't do it at will. You will not be able 6 to speed up at your own desire, because there are sufficient 7 8 volumes of traffic on the road.

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It corresponds, in general terms, to what the Federal 9 Highway Authority -- used to be the Bureau of Public Roads, 10 who publishes the design criteria for roads -- it corresponds 11 to what they feel the design volume for that road should be. 12 In other words, if you project a certain volume of traffic 13 will use the road, you should design a certain type of road. 14 That corresponds to the level of service C, it would be 15 the Morris County area. That is what service volume is. 16

Service volume represents a particular level of
service which represents what the road is designed to carry,
which, while it does have sufficient numbers of cars on it,
has an acceptable level of congestion, inconvenience to the
driver.

22QWith regard to Morris County roads, do you23have any knowledge as to by whom they are designed?24AI'll answer, yes.25QAnd who would that be?

1	A That's what I was afraid of. Certain segments of the
2	road system have been designed in-house by the Department of
3	Transportation, although those are fairly limited. The road
4	system is controlled or under the jurisdiction, in the case
5	of certain roads, by the Federal Government and the State,
6	in certain cases by the State alone, there's no state fund-
7	ing involved, in certain cases by the county.

8 Q When you say "control," now, have you left 9 design --

10 A Let me get back to it.

Q All right.

Certain cases by the county and in the case of local A 12 roads by the municipalities. In each case, those agencies, 13 excepting the Federal Government, may do their own design 14 work. At least in the case of the county and the State, 15 I would have to say that a majority of the work is done by 16 consulting engineering firms, not unlike mine. In the case 17 of local roads, it depends purely on the town, the engineer-18 ing staff they may have. 19

20QIn terms of the roads in Morris County, do you21have any knowledge at which actual level of service they22were designed, as, I mean, like, C or --23AI can indicate I have personal knowledge of the design

volumes, for instance, on the Route 24 freeway, which still isn't built, where it was originally set up to be a level

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of service C. The volume involved was C -- because I was working for the firm that was designing it back in 1971. I don't have personal knowledge, because I didn't do the design of it, but as far as the interstates, again, that would be the volume of criteria that was used for the interstates when they were originally designed. Those are completed.

Is it possible that some of these roadways Q 7 may have been designed at a design level of service below C? 8 It is possible that a segment of a roadway, for some 9 specific reason, was set up knowing that it would be, when 10 the projected volumes were there, that it would operate on 11 the level of service D. That's not -- It's not a common 12 occurrence, but it is not uncommon to have it occur with 13 regard to a specific interchange or some such thing, where 14 there's just no practical way -- there's always an engineer-15 ing way -- but no practical way to get the right of way for 16 an interchange large enough to have the interchange operate 17 at level C. 18

So, it's quite possible, in my mind probable, that there is a segment of road in Morris County where they recognize that it would not operate at level of service C in such time as it is in operation. I can't swear to it, but I would be very surprised that, if any of the areas that we looked at capacity analysis, those areas were expected to operate at a lower level of service when they were

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1	originally designed than C.
2	Q Now, I want to make sure I understand this.
3	Are there other methods of determining capacity on roadways
4	other than the level of service?
5	A Well, understand, there is a difference between
6	capacity and a service volume. The service volume is less
7	than the absolute capacity of the road to move cars.
8	Q Okay.
9	A I would have to answer, technically, there are other
10	methods, but they're not used, generally. I don't know of
11	an instance when they would be used when they are used,
12	let me put it that way. I have never run across when they
13	are used.
14	Q Let me ask you this: If a road has been
15	designed at the level of service C, is it possible that the
16	traffic flow would operate so that it will appear as if it
17	were operating at a level of design D, is that
18	MR. SCHMAUDER: I object to the form of the
19	question.
20	Q Do you understand the question?
21	MR. SCHMAUDER: Possible to whom?
22	Q Is it possible to you, Mr. Frost, as a trans-
23	portation planner.
24	MR. SCHMAUDER: Appear to whom?
25	MS. MASON: Would you read back the question?

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1	(Whereupon, the Reporter complies with the
2	above request and reads back the following:
3	"THE QUESTION: Let me ask you this: If a road
4	has been designed at the level of service C, is it
5	possible that the traffic flow would operate so that
6	it will appear as if it were operating at a level of
7	design D, is that" (Colloquy) "Is it possible to
8	you, Mr. Frost, as a transportation planner?")
9	
10	MR. LATZER: Could you rephrase that? Would it
11	be a burden to ask you to rephrase that question?
12	MS. MASON: No.
13	Q If a roadway has been designed at the level of
14	service C, can that roadway withstand increased capacity?
15	MR. SCHMAUDER: I object to the form of the ques
16	tion again, because I'm not understanding what you mean
17	by "withstand." The witness has told you there are
18	levels of service for qualifying what the road, in
19	actuality, it is designed to do as well as for evalua-
20	ting, in fact, what the road is doing.
21	MR. LATZER: Can you answer the question?
22	THE WITNESS: Yeah.
23	MR. LATZER: Would you try to?
24	A I believe so. To paraphrase the question, can more
25	cars pass through a particular roadway than its level of

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service volume? The answer is, yes, as long as you accept 1 the fact that the road will not function in as desirable a 2 fashion as the profession has set it up to be and that you 3 will accept congestion. As additional cars go through, you 4 will start to accept more and more congestion, until it 5 becomes quite serious. The Long Island Expressway is not, 6 in the profession's opinion, a desirable road and yet it 7 operates above level of service C. 8

Interestingly enough, it also operates below capacity. 9 Because if you eventually get so many cars on the road, the 10 congestion becomes so severe you can't approach the capacity 11 of a roadway. In simplified terms, capacity is measured in 12 vehicles per hour. You have to measure it over time. If 13 congestion is so severe that no cars move for an hour, the 14 volume using that roadway is zero, regardless of what the 15 capacity is. So, if you get enough congestion, you start to 16 lose the ability of the road to pass cars. 17

18QWould you explain your methodology for deter-19mining the peak capacity -- I think you call it peak.

20 A Peak hour.

21 Q -- peak hour capacity with regard to the graph 22 on page 9?

23 MR. SCHMAUDER: Would you point out where on 24 page 9? There is a reference to peak hour capacity --25 Q The reference is peak volume capacity ratios,

1	that's what I'm trying to determine. What is your methodology
2	for determining volume capacity ratios as you do on page 9?
3	MS. MASON: Do you want me to point out where,
4	which ones, on page 9, Mr. Schmauder? Would you like
5	that?

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I mean I-80, I-280, Route 46, Route 10, South Q 6 Orange Avenue, which is Route 510, Route 24 and I-287. I'm going to take it through a generalized explanation

8 and if someone wants me to get out the manual and go through 9 page by page, okay. The procedures are set forward in the 10 highway capacity manual for different types of roadways in-11 volved. There are a series of technical steps which you go 12 through, both relating to data that you're utilizing, as far 13 as existing volumes that are on the road, and as far as the 14 geometry, or physical configuration of the road or intersec-15 tion or whatever. 16

You take the information with regard to the existing 17 traffic, you take the information with regard to the design, 18 physical features of the road. You then make use of that 19 through the procedures established in the Highway Capacity 20 Manual and you will end up with a level of service C service 21 volume, because it's one of the choices you have, what volume 22 you are looking for, and the end result are what is listed 23 as peak direction, D-I-R, capacity. That represents the 24 hourly volume which can be handled at level of service C 25

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in one direction for the roads that you listed.

You also know what the volume was from the secondary data sources I discussed previously. You guide the volume by the capacity. You get a VC ratio, volume of capacity ratio, for level of service C. Assuming it is not a mathematical error, the numbers that are given here represent that ratio.

7 If it is one, that means you are operating at the level 8 of service C service volume. If it is over one, that means 9 that it is -- the roadway is already carrying more vehicles 10 than it was, in theory, designed to handle. If it less than 11 one, there is the ability to add additional vehicles to the 12 travel lanes prior to it reaching the volume that you designed 13 it for. Now, is that a thorough enough explanation?

(Whereupon, a brief off-the-record discussion is held.)

Q I have some more questions on that. I'm 18 discussing the actual graph that you had come up with on 19 page 9, but I'm also going back to your methodology for 20 determining this, which is set forth on page 8, paragraph 3. 21 You state that, for freeways, a five-minute interval has been 22 adopted as a standard. Could you explain to me exactly why 23 that was done and what that means? 24

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One of the pieces of information which we use in

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determining capacity and/or level of service is an item 1 called the peak hour factor. There are set procedures used 2 for determining the peak hour factor. What it does is it 3 takes into account fluctuation in the traffic within the hour. 4 On a particular roadway -- well, I can't say would never 5 happen, but it would certainly be a statistical freak -- you 6 do not have a constant flow of traffic, so many vehicles per 7 minute throughout the entire hour. 8

You have to take into consideration in the utilization 9 of that road the peaks and valleys that occur throughout the 10 hour; otherwise, you will end up with a roadway which is under-11 designed. An example would be -- which, admittedly, is purely 12 theoretical -- if you happen to have a roadway intersecting 13 a driveway from a building and a thousand cars parked in the 14 parking lot, for an intersection, the standard you base it 15 on is the highest fifteen minutes that occurred within the 16 hour as opposed to the highest five minutes that occurred 17 within the hour. 18

So, you have a signal out there at the intersection. **Bverybody comes** out, gets in their car and goes home at
five o'clock, all thousand vehicles, and they all do it
right away and those are the only vehicles that leave that
parking lot during that hour period. Well, the volume,
because you talk about volumes typically in twenty-four
hour periods or over a single hour, the volume's a thousand

cars in an hour.

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But if you set the capacity of the signal for a 2 thousand cars and it was exactly a thousand cars, the first 3 quy into his car would get out right away and the last guy 4 into his car would have to wait fifty-nine-plus minutes to 5 get out of the parking lot. You have to take into account 6 that large surge which occurred. I say it's purely theoreti+7 cal, you don't find that thing, although you find things that 8 approximate it occasionally with office buildings. 9

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But if you don't take into account the surges which 10 occur within the hour, you will have a breakdown in the 11 roadway, the functioning of the roadway, because the capacity 12 will be exceeded during that peak and once it's exceeded, it 13 takes a long time for the traffic to stabilize, to get back 14 to a normal operation. So, on a highway, on a freeway, you 15 base this peak hour factor on a five-minute -- take the high+ 16 est five minutes times twelve and divide that into the total 17 volume for the hour and that gives you a percentage or a 18 number which is less than one and you use that as a peak 19 20 hour factor to input into determining the level of service, or the capacity. 21

Now, in fact, in point of fact, if you ever found a 22 peak hour factor level of one, not level of service, of one, 23 chances are you have a capacity restriction downstream which 24 is monitoring the flow. It just doesn't occur statistically. 25

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As a general statement, in an area like Morris County, you will find that the peak hour factor is .91. The manual you suggest to use in areas like the previous studies done in the area confirms that that is a reasonable peak hour factor for highways in this area and, so, .91 is used.

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6 I think there's a footnote on page 9, Table 2, based 7 upon PHF, which is peak hour factor, of .91.

8 Q This, by the way, is where you do use popula9 tion. I finally found it.

A Okay, all right.

11QI told you it was in here somewhere.12ANow we're referring to it in a totally different13sense, but the -- Do you want to know why that's the --

14 Q Let me ask you this: This is your methodology 15 for determining capacity. Are there other accepted methods 16 within the profession of determining capacity that you're 17 aware of?

A I don't believe -- I don't consider theirs another method which is accepted, that is as rigorous an analysis as this. You can get into some brutal number-type things and headway analysis, but as a general statement, this is the single accepted practice, method, that's used in the profession to determine capacity. This is the rigorous approach.

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Does your methodology for determining capacity

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demonstrate the fluctuations in time?

A I'm sorry.

Q When you speak of peak hour capacity, you've
taken the peak five minutes. I'm trying to determine, first
of all, there have to be other lower times, you've stated that
yourself, when it is not at the highest five-minute peak, is
that correct?

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There are other times when it's not as high as the 8 five-minute peak, but I think maybe there's a misunderstand-9 ing on the importance of that number. You're still working 10 with the peak hour volume. The purpose of that factor is 11 to allow for this flexibility which occurs within the hour. 12 Now, my hypothetical situation we had, you know, a phenomenal 13 change over the hour, because everybody wanted to get out at 14 once. In real life, that volume change probably has a range 15 of maybe ten to fifteen percent, something in that magnitude. 16

We're not talking about in five minutes we have a 17 hundred cars and five minutes later we have ten cars. We're 18 talking about the highest five minutes is a hundred and the, 19 maybe, the lowest is eighty-five or something like that. It's 20 a fairly well-defined line through the -- you plot up every 21 five minutes what the volume was. So, we're not analyzing 22 the five minutes, we're analyzing the hour. But to take into 23 account there is a variation in the hour, you do input in one 24 item, one of many, that takes into account what happens for 25

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a short span of time.

Q My question is: Does that five minutes take
into account the other fluctuations within the hour?
A Yes, it does, by definition, because you multiply the
highest five minutes times twelve and you divide that into
the total volume over the hour.

All right, that's what I didn't understand. Q 7 Have you done any peak capacity studies for the, say, major 8 arterial roadways, as you call them, in the Passaic, Bergen, 9 Essex County, Union County areas to -- I'm referring you 10 specifically to your first sentence of page 8, wherein you 11 state, "A review of the existing road network serving 12 Morris County indicates a growing problem in terms of 13 capacity on all major roadways providing access to employ-14 ment centers in Passaic, Bergen, Hudson, Essex, Union, 15 Middlesex and Somerset Counties." Have you done any studies 16 of peak capacities at those sites that you've mentioned? 17 Bither I or someone from my firm has at some point A 18 19 in time.

20 Q When were they conducted and what was the 21 nature that they --

A If analysis is input to any traffic study that's done and either my firm or employees of my firm have conducted studies in all of the counties that are listed and, so, as a normal course of events, you have done a capacity

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analysis of the major roadways, either municipalities or the road counts or whatever. The answer is, yes, we have done it and we have knowledge of it personally or one of my employees has a personal knowledge of the limitations and the capacities and the analysis procedure and all those counts. I can't state we've analyzed every roadway, but I can say we've done work in every one of the counties.

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8 Q Could you name some of these studies that 9 you've done?

10AWell, the Essex County TOPIC study, which included11everything but Newark. We did capacity analyses of every12major roadway in every community, except for Newark. Bergen13County, we did Pascack Valley and Hackensack and did some14work in Tenafly and other towns and go back to the original15list.

16QDid you name any in Union County in that17list?

18 A I think we did the Union 701 Transportation Study.
19 I did that when I was with the other firm.

20 Q Could you clarify for me what studies you 21 did in Middlesex and Somerset Counties with regard to this 22 same question?

23AAll right. Well, I'll clarify it. I have done work24in Warren, Bernards Township, Bernardsville. Those studies25MR. LATZER: Excuse me a second. Are you going

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to repeat the studies that you testified?

THE WITNESS: I quess.

3 Q All of them. I'm trying to make certain, not 4 remembering what they were, were they all inclusive with 5 regard to these?

A For instance, if I do a study in Bernards Township,
I pick up 202,287 and 78. Having done work in that township,
I therefore have knowledge of those three roads. I wasn't
studying the roads, but they're part of the township's transportation system. If I do work in Bernardsville or down in
that area, I have to take into account 202, 287 and 206.

In Warren, you have to take into account 202, which 12 certainly is west, but 78 -- because of my business, we're 13 all optimistic, we all assume 78 will be finished. I'm 14 not saying you specifically study a particular road to come 15 to this conclusion, but over the course of the last fifteen 16 years, yeah, I would say that probably any major artery that 17 leads into Morris County, either I or some men of my firm 18 has looked at some point in time. 19

20 Q These are the studies you have relied upon 21 in making this particular statement?

22 A That's right.

Q In the third paragraph, you state, "Generally,
 the minimum acceptable level of service for highways is
 C and this operational level is frequently used for urban

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ソソ design practice." Were all of the roads in Morris County 1 constructed in accordance with an urban design practice? 2 They should have been. A 3 Do you have any knowledge as to whether they Q 4 were? 5 I don't have any knowledge they weren't. I have no A 6 reason to believe they weren't, but there may, what I talked 7 about before, there may have been a specific segment of a 8 road where they were not able to attain the capacity they 9 would have liked to. But I have no reason to believe that 10 any of the roads were designed at a level of service -- the 11

roadway itself was designed with level of service D in mind.

But you have no specific knowledge?

13 I can't say, because I wasn't involved in the design A 14 of every roadway. 15

Upon what knowledge do you base your statement Q 16 onpage 8, paragraph 5, that Route 24 through Chatham is ex-17 tremely poor with the potential for completion of the Route 24 18 freeway, which will extend for the easterly Morris County line 19 at Chatham to the Morristown area, still several years away? 20 My actual question with regard to that statement is: What 21 knowledge do you have with regard to completion plans for 22 Route 24? 23

I take a personal interest in the road. I have dis-24 cussed it both with officials of the Department of Transportation 25

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the local governing body in Chatham takes an interest in the 1 road and has discussed it. I'm at least peripherally involved 2 because I sit in the planning board down there. I am aware 3 that they can not build the road next year. I am also aware 4 that the road has some significant hurdles to still overcome, 5 in my mind, before the road will ultimately be built. That's 6 a personal opinion. There are those that feel it will never 7 be built. 8

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9 Q What individuals did you particularly gain this
10 information from within the Department of Transportation?
11 A I talked to Ed Date (phonetic), Bill Gwen (phonetic),
12 over the years, Keith Rosser (phonetic), John Obermeyer
13 (phonetic), I don't know. If I'm down there, I usually ask
14 what's going on, because, as I say, it's a problem.

15QDo you have any knowledge with regard to what16the actual hurdles stopping completion are, or at least17delaying completion, as you put it?

The road was actually put in design back in '71. I A 18 was in charge of the design of the section of what technically 19 is the Morristown Airport out to Speedwell Avenue. That 20 road was stopped at that time. It was a hundred percent 21 state funds on the road. The road was stopped in '72 or 22 '73, I can't remember which, because they had run out of 23 money, out of the original bond issue, to bill it and now 24 were going to go with federal bonds and the Federal Government 25

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required an environmental impact statement performed.

Since that time, up and through two months ago, at -2 least, they have been negotiating with firms to conduct the 3 environmental impact statement. I don't know that the con-. 4 tract is signed. It was not signed in the summer of this 5 year. An environmental impact statement takes a significant 6 period of time because of the need to principally determine 7 ambient air level, air guality and so forth. It then has 8 to go through a whole series of hearings. After you go through 9 the series of hearings, the road will have to be redesigned, 10 because the design standards have changed. 11

It's now going to be federally funded. It then takes a significant period of time to construct a road like that. That's my personal knowledge of where the road stands.

MR. LATZER: It seems like an understatement. THE WITNESS: I would like to be an optimist. I'd like to see the silly thing built.

18 Q Do you have knowledge as to where the capacity 19 limits are exceeding -- Let me ask you this first: My 20 understanding from your testimony is that when the VC ratio 21 exceeds one, the highway has exceeded its capacity, is that 22 correct? 23 A Correct -- No. it's exceeded its service of level C.

A Correct -- No, it's exceeded its service of level C.
Q Which is the design capacity.
A Which is what you designed it for, correct.

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Do you have knowledge as to what particular Q 1 areas of the roadway on Route 46 have passed their peak capac-2 ity, which is the volume capacity? 3 I'm trying to think of a specific location on Route 46. 4 Can I switch to Route 10 real quickly? Because I think I have 5 one there. 6 All right. Q 7 The intersection of Route 10 and Ridgedale Avenue, 8 A certainly. 9 Does this condition exist only during rush Q 10 hours or are there particular hours that this --11 There are particular hours. It doesn't exceed, as 12 a rule, you don't exceed capacity for more than a certain 13 number of hours during the day. 14 All right, with regard to Route 46 ---Q 15 I'm trying to think of one that I have specific Α 16 knowledge that I can remember as an intersection analysis. 17 I have to say I can't. If you want me to, I'll find one 18 we have done. I can't think of a specific intersection off 19 the top of my head. 20 Are there particular areas of 1-287 where the Q 21 capacity limits have been exceeded, design capacity? 22 In my mind, frankly, once you start approaching 23 Α Morristown, all the way up north of -- get past Route 80, 24 25 the road is functioning with volumes that are higher than

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were anticipated through that area and was originally laid out back in the Fifties, which intended to pick areas where the State had county volume information to relate back to the capacity information. But from a personal knowledge of the roadway, the interchange with 80 and 287 is a real problem. The interchange with 80 and Route 10 is a real problem.

Route 287 south of Route 10, especially south of
Morristown, the volumes are rapidly approaching the point -not rapidly approaching the point, but congestion is starting
to occur on those interstates. Route 287 is a real problem.

11QWhat about Route 24?12ARoute 24 you can't -- Route 24 is pure stop-and-go13traffic with the emphasis on stop at peak hours on the14eastern end of the road.

15 Q Do you have an opinion as to how staggered
16 work times would impact on these excess capacity levels on
17 certain roadways?

18 A Do I have --

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19 Q The roadways that you've mentioned.
20 MR. LATZER: Could you repeat?
21 Q I said, do you have an opinion as to the
22 impact that staggered work times would have on the excess
23 capacity levels of the roadways that you -24 MR. SCHMAUDER: I object to the form of the

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1	Q Do you understand the question?
2	MR. SCHMAUDER: Well, having indicated that
3	you don't understand what I mean, I'll explain it
4	for you. Staggered work times where?
5	Q Do you have an opinion as to whether the exis-
6	tence of staggered work times in commercial areas, areas
7	where there is business activity, whatever, you know, wherever
8	they may be in Morris County, do you have any opinion as to
9	whether staggered work times within those work areas would
10	impact on the excess capacity levels on the highways that
11	you've mentioned?
12	A Yes, I have an opinion. I think the question you're
13	driving at is, can you accommodate more vehicles on the
14	journey-to-work trip by staggering the work hours even given
15	a limited capacity of the roadway.
16	Q Yes, thank you.
17	A All right. It has an impact. The ability of busi-
18	nesses to do it has always been a problem. Some businesses
19	are able to do it better than others. I think, as I character-
20	ized before, car-pooling is helpful. There are certain
21	businesses which I think have been able to accommodate a
22	significant impact on the roadway system. It is, in my
23	opinion ends up being more significant on roads which are
24	other than interstates, Route 10's, Route 46's, it tends to
25	have a much more real impact upon the county and local roads,

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but certainly does have an impact more so than car-pooling, I believe.

It, by the very nature of it, has to allow for a 3 greater number of vehicles to make use of the system. 4 However, there is a limit to the ability to stagger and it 5 depends from company to company as to what they feel they can 6 live with, depends upon the type of company. For instance, 7 the company which typically deals with a west coast company 8 typically have had significant problems with staggering. 9 The company which is part of a large corporation where there 10 is interaction between the offices can have large problems 11 with the staggered work hours, especially if the staggering 12 is over a half-hour period. 13

But I can also indicate that there already is, I 14 believe, in Morris County a fair amount of staggering going 15 I can't give you percentages, but there are large on. 16 corporations which are actively involved with it and we 17 already have a problem, in my opinion. So, I would anticipate 18 the same, at least the same, level of staggered work hours 19 would continue and are reflected in the problem we have today 20 and I still stand with the position that there is a severe 21 access problem in Morris County which will start impacting 22 when the people move here, move their businesses here. 23

Q Which of these employers that you spoke of which have these large corporations are currently utilizing

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staggered work times?

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I think it was Prudential. They actually work what А 2 they call a "flex time system." I believe Allied is now 3 staggering. 4

Where are these located?

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Prudential is located in Parsippany-Troy Hills, among Α 6 others. AT&T is doing staggering and they have office space 7 up in along the 287 corridor in Morris County, in addition 8 to their large facility in Somerset County. I believe Exxon, 9 if they don't stagger, they may have -- I believe, if I 10 remember correctly, that they have buildings that are offset 11 on their facilities in Florham Park. 12

One of the problems with the concept of staggering, 13 and I'm going to stop there, but one of the concepts of staggering 14 is that any business, even if they tell everybody to get 15 there eight o'clock in the morning, staggers. I mean, there 16 are a certain percentage that arrive early and there are a 17 certain percentage that arrive late. Only approximately 18 maybe sixty-seven percent, if you don't have a staggered 19 system, only about sixty-seven percent of the people arrive 20 during the peak hour. The other thirty-three percent of 21 workers are tardy. 22

When you start staggering, you start overlapping 23 these and if you stagger by half-hour, you don't drop every+ 24 thing down. You now have an overlap of this staggering, 25

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1	depending on how tardy people are. I think it's prevalent
2	in suburban facilities, northeastern New Jersey facilities
3	right now. I would expect it to stay so.
4	Q On page 10, the second paragraph, you state,
5	"Since the volumes of traffic on many of the arterial high-
6	ways serving Morris County are already approaching the design
7	capacity, it can be expected that development in the county
8	will start to reflect the limited access available." Upon
9	what information do you rely for this statement?
10	A My personal evaluation of various sites throughout
11	the county and recommendations to clients who have then
12	proceeded not to purchase the property.
13	Q Might you name
14	A I'd rather not. I really would, because
15	Q Could you give me some idea of the number, then,
16	that we're speaking of?
17	A Number of times it's happened?
18	Q Yes.
19	A I can think of four times it's happened three
20	times it's happened, fourth time they leased.
21	Q Might you tell me, not wanting to know who
22	they are, where exactly the location was that they chose
23	not to move into or you actually advised them not to move
24	to?
25	MR. LATZER: Well, could it be a general area

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rather than -- I don't want somebody to say --1 MS. MASON: I don't mean exactly. 2 I don't know how to answer that without being A 3 specific. 4 Could you answer in terms of towns? Q 5 А Towns? 6 Q Maybe in terms of towns and roadways. 7 I'd say I've done it on Route 10, Route 287 and what Α 8 I'll classify as the Route 4 corridor. 9 When you say the "corridor," I assume you Q 10 don't mean the entire roadway. 11 All right, no, I don't mean the entire. Well, on A 12 Route 27 I haven't suggested to anybody it's a good idea 13 to move to the Morristown area of 27 -- did I say 27? --14 287. I haven't suggested to anybody that they relocate 15 onto the Route 24 corridor east of Morristown. I don't 16 know how to define the limits on Route 10, but it certainly 17 isn't through the entire length of the county at this 18 point, because I, frankly, haven't been involved with the 19 western end. So, I don't know what I would say if I go 20 down to the western end of Route 10. 21 Q You mentioned Route 287, Route 10 and did you 22 mention --23 А Route 24. 24

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Route 24 east of Morristown. A

East of Morristown, all right, thank you. Q 3 With regard to the businesses, not wanting to know their 4 names, are these small businesses, large businesses, com-5 mercial, retail? 6

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How about I say they're over a hundred thousand square A 7 feet of building space, is that an adequate answer for you? 8

That doesn't help in terms of employee size. Q Well, I think it does. It would be more employees --A 10 it would be over three hundred employees in the building or 11 in that magnitude. 12

You state in paragraph 3 on page 10, "While Q 13 it can be expected that nonresidential development will 14 continue throughout the county, and specific locations may 15 continue at a high rate, based upon available transportation, 16 it can be expected that the current high rate of nonresidential 17 development which Morris County is experiencing will start 18 to decline." 19

Now, that's somewhat related to the last 20 question, but could you further elaborate, if you see the 21 need, as to your basis for the statement? 22

Yeah. Generally, I feel, based upon the work which A 23 I have done in this county, that the level of new non-24 residential development throughout the county will not grow 25

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1at the same rate that's been experienced, that I have wit-2nessed and been involved in and experienced over the last3number of years. The first part's a disclaimer, because I4could always find some spot in the county where I could5recommend to put a building.

There will be specific spots, but there have been a 6 large amount of activity going on and I think my major con-7 cern, frankly -- I'm not sure that it's all that pertinent, 8 but maybe it is -- there has been a large amount of land 9 zoned in Morris County for nonresidential purposes. I think 10 it's unrealistic to assume that land is going to develop 11 to the capacity of the zoning set forth, because you won't 12 be able to get there. People just won't buy the land. 13

The value of the land will decline and it will be 14 used for something else or not be used, although I am 15 convinced that I could find some place in Morris County 16 the ability to locate a large building for -- I probably 17 could find it elsewhere in Morris County, also. But as a 18 general statement, I think Morris County is going to 19 experience a decline in growth because of the inability 20 to get access to the development. 21

22 Q With regard to the development in the county 23 that you have stated will possibly not come in because of 24 access, transportation access problems, where in the Northeast 25 New Jersey area do you, in your opinion, from a transportation

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perspective, should these types of places locate? A I don't know that they willbe in the Northeast Jersey area.

4 Is that based on a transportation analysis? Q 5 A It's based upon the fact that I don't know where 6 they'll go. I don't know -- I can't answer the question 7 and say, I think they're going to go to Tenafly or they're 8 going to go to Passaic County or they're going to go to 9 Hunterdon County or where. I frankly don't know because I 10 haven't looked into the problem as to where I think I'd put 11 them if I didn't put them here, but I don't think they're 12 going to be here.

Q Where do you think, in your opinion as a
transportation planner, transportation expert, where would
you locate employment in the Northeast New Jersey area such
as to minimize transportation problems? I'm talking about
large-scale employment.

18 A Would you give me an example of what you're talking
19 about?

20QAn example of what I'm talking about?21AI guess what I have a problem with is that there are22a lot of different types of employment.

23QLet's say with three hundred -- in excess24of three hundred employees.

A What are they doing? Because that has a lot to do

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1	with it. Is it manufacturing, is it office work?
2	Q Let's say office work.
3	A Office work?
4	MR. LATZER: Could we have the question, then,
5	once again?
6	MS. MASON: My question was: Where from a
7	transportation perspective does he think employment
8	should be located in the Northeast New Jersey areas so
9	that it would minimize transportation problems.
10	MR. SCHMAUDER: Can we have a definition of
11	what Northeast New Jersey areas you include within
12	your phrase?
13	MS. MASON: I'm speaking of the name "North-
14	east New Jersey area" that he has utilized in
15	MR. SCHMAUDER: Singular area.
16	MS. MASON: Yes, area, I'm sorry.
17	A I personally believe that, given the interstructure
18	of transportation that exists in Newark, at that immediate
19	region, that there should be a continued there should be
20	more emphasis placed on the location of employment in that
21	area because of the transportation that serves it. There
22	is reasonable service to Elizabeth, mass transportation.
23	After that, I would, frankly, have to sit down and study
24	the question.
25	But there is a tremendous investment in a lot of areas.

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But, certainly, in transportation in an area like Newark, 1 it has the capability, the capacity, that most of the older 2 central cities have to allow for significant transportation 3 to and from that city and a large portion of it does not 4 have to be via the private passenger car. I think it's 5 unfortunate that there has not been -- I'm thinking of how 6 to phrase it -- that there has not been extensive redevelop-7 8 ment of that type of business in that area because of the 9 transportation system available.

Q Do you have an opinion as to whether Newark 10 is more accessible for commuters both by automobile and 11 by mass transportation? 12

13 I was referring specifically to mass transportation. A 14 I think one of the problems we face with the automobile is not only do we have a limited problem, we have a problem 15 with capacity in Morris County, we have it throughout the 16 Northeast New Jersey area. The journey to work is the one 17 area which I think you can accommodate with mass transit, 18 19 because it certainly has the very high peak hour capacity. So, therefore, my answer to your question is, it has a 20 definite capability from a transportation standpoint to 21 provide transportation to and from work for a large number 22 23 of employees.

Does that hold equally true with respect to Q 24 25 automobile commutation?

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1	A No, I don't think it it doesn't have. It's a
2	good qualitative term. It has limiting problems with regard
3	to automobile transportation also, although it is served by
4	a number of highways. It tends to be a hub, but those high-
5	ways have capacity problems today. Certainly, Newark has the
6	interstructure to not only and I use the city as an example,
7	but I don't mean it to limit it pure and simply to Newark
8	but it has the capacity not only to allow for transportation
9	to the city, it has an interstructure which allows both the
10	employment and the housing to take place.
	It has the interstructure for the housing, the utilities.

the interstructure for the housing, 11 the sewers so forth and so on. It has the ability to both 12 provide a housing and the employment in one location and cut 13 down on the transportation costs, which goes back to the 14 original part of the discussion. I think it's wrong, from a 15 transportation standpoint, to spread the employment and the 16 residences on a fairly uniform basis throughout Northeast 17 New Jersey. It's counterproductive, in my mind. 18

19It requires, ultimately, to charge a large expenditure20of public funds to try to improve the transportation system21and I think there's some very practical limits on how much22can be approved. It also requires a large expenditure of23public funds -- of private funds then to make the journey24to work, because you do have to get relatively lucky to have25a development which has a large piece of employment adjacent

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to all the housing needs.

Maybe ultimately in the future you might be able to get the balance, but on a real time basis, it would be unusual, in my mind, to find that a larger employment business moved in and had the housing in the immediate proximity to serve that business. That's not the case in the central cities.

> MS. MASON: Although I would love to continue this, I recognize it's one o'clock and we had decided we would stop at that time, with the understanding that we will continue next Friday, November 16, at nine-thirty again and you will be available at that time.

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(Whereupon, the deposition is concluded for the day at 1:00 p.m.)

<u>C E R T I F I C A T E</u> ELIZABETH A. QUAGLIANI, I. a Shorthand Reporter of the State of New Jersey, do hereby state that the foregoing is a true and accurate transcript of my stenographic notes of the within proceedings, to the best of my ability. Shorthand