MEMORANDUM April 30, 1993

TO: Bill Eisen, City Manager

FROM: Julie Couch, Assistant City Manager

RE: Submission for Summer Lee Alignment

Rex Robertson, the owner's representative for PD-7 and PD-18 located south of I-30 has submitted a proposed alignment for the extension of Summer Lee Drive, which is a collector street identified on the City's thoroughfare plan. The proposed alignment would extend Summer Lee from its current point of termination just west of Signal Ridge to a point intersecting the service road approximately 400 feet east of the future exit ramp. The Planning and Zoning Commission has reviewed the proposal and they requested that we have the design reviewed by a qualified traffic engineer in regard to the location of the proposed intersection with the service road. We have had the design reviewed by Mark Goode, a traffic engineer with Bridgefarmer and Assiociates and a copy of his recommendation is attached. It is his recommendation that the intersection with the service road be moved further east to a distance of 550 feet.

The Planning and Zoning Commission considered this item at their meeting Thursday night and they have recommended that the proposed alignment be denied. A number of the members indicated concern about the location of the intersection with the service road. The vote was 3 to 2 to deny the proposed alignment.

The City Council will consider this request at their meeting on Monday night. The options that they would have in considering the request would be to approve the alignment as submitted, approve the concept with any conditions such as moving the intersection further east, deny the request, or table the item for further consideration. This item is a preliminary plat for a proposed road alignment, which is not a public hearing item.

A COLE AND A LANGE AND A LANGE

44002

Technical Memorandum

To:

Julie Couch

Assistant City Manager

From:

Mark G. Goode, III, P.E. Mark G. Goode, III, P

Subject:

Summer Lee Road / FM 740

Traffic Circulation Study

Purpose and Scope

The purpose of the subject study is to determine the most appropriate location for the proposed extension of Summer Lee Road to intersect the I 30 Service Road. A secondary, but important task is to review overall traffic circulation in the area bound by I 30 and FM 740 and the lake.

We have reviewed area land uses - existing and proposed - and calculated the amount and type of development that might occur in the future. We have calculated the traffic that might be generated by the anticipated development and reviewed existing traffic counts. We reviewed the TxDOT traffic projections in the vicinity of the proposed intersection of Summer Lee Road and I 30 service road using the design guidelines in the TxDOT Highway Design Division Operations and Procedures We have developed a recommendation for the proposed roadway alignment and intersection.

Änalysis

The proposed land uses in PD-7 and PD-18 will generate approximately 8300 vehicles per day. The fully developed tracts will generate approximately 770 trips in the morning peak hour and approximately 1100 vehicles in the evening peak hour. The collector roadway proposed (4-lanes, undivided) will have more than adequate capacity to handle the anticipated trips.

The TxDOT year 2005 projected traffic exiting I 30 bound for the Lakeside / Horizon Interchange is approximately 1800 vehicles per day. According to the Manual the intersection of Horizon is located a "desirable" 1200 feet away. However, the same analysis suggests that the Summer Lee Intersection can be located a "minimum" of 550 feet from the end of the exit ramp. The developer has proposed a location of 400 feet form the ramp. (Note: A telephone conversation between Julic Couch and Leroy Wallen at the District 18 office of TxDOT revealed that the highway department would probably accept the 400' location proposed by the developer.)

Currently, Horizon Road has an 18' wide concrete section with curb and gutter on the east side between I 30 and FM 740. Because of the narrow width the City of Rockwall operates the road as one-way northbound. Since PD-7 and PD-18 will take several years to develop and generate traffic, an interim plan to reverse Horizon and operate it one-way southbound between I 30 and FM 740 may resolve some of the concerns about "short cut" traffic when Summer Lee Road is extended.

The ultimate solution to balanced traffic circulation in the area is widening Horizon Road to a full 2way roadway. The recommendations are attached.

THUNDERING HERD



Recommendations

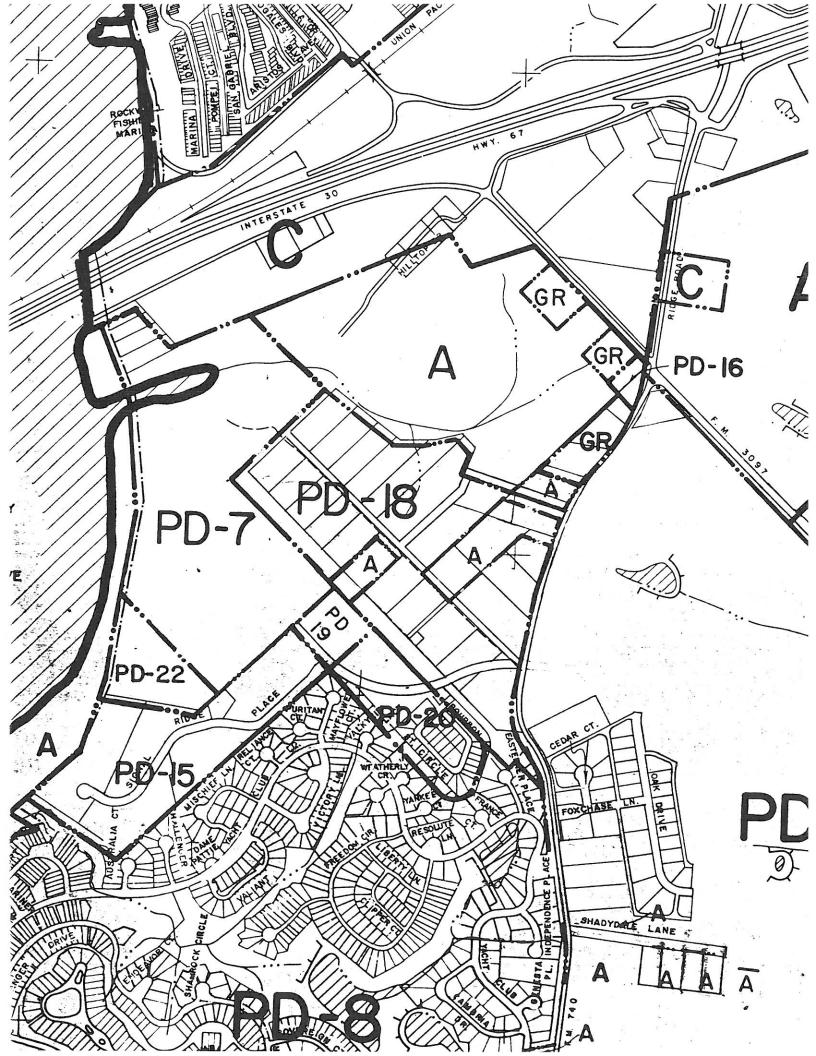
Summer Lee Road

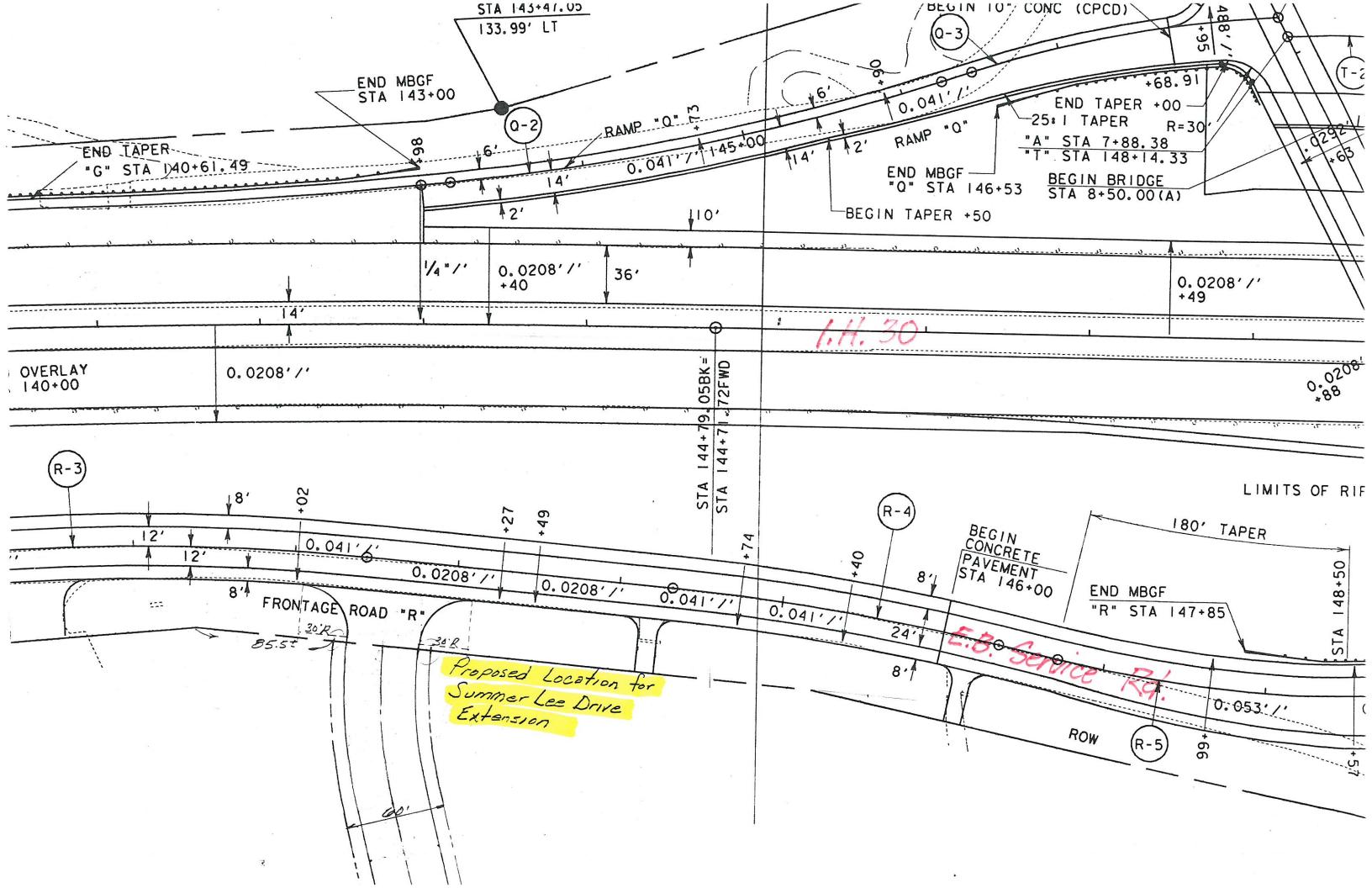
- Intersection @ I 30 550' from Exit Ramp.
- Horizontal and Vertical alignment 35 mph Design Speed (minimum).
- All intersections and driveways subject to Sight Distance Analysis -35 mph Design Speed (minimum).
- Connection to existing Summer Lee OK.

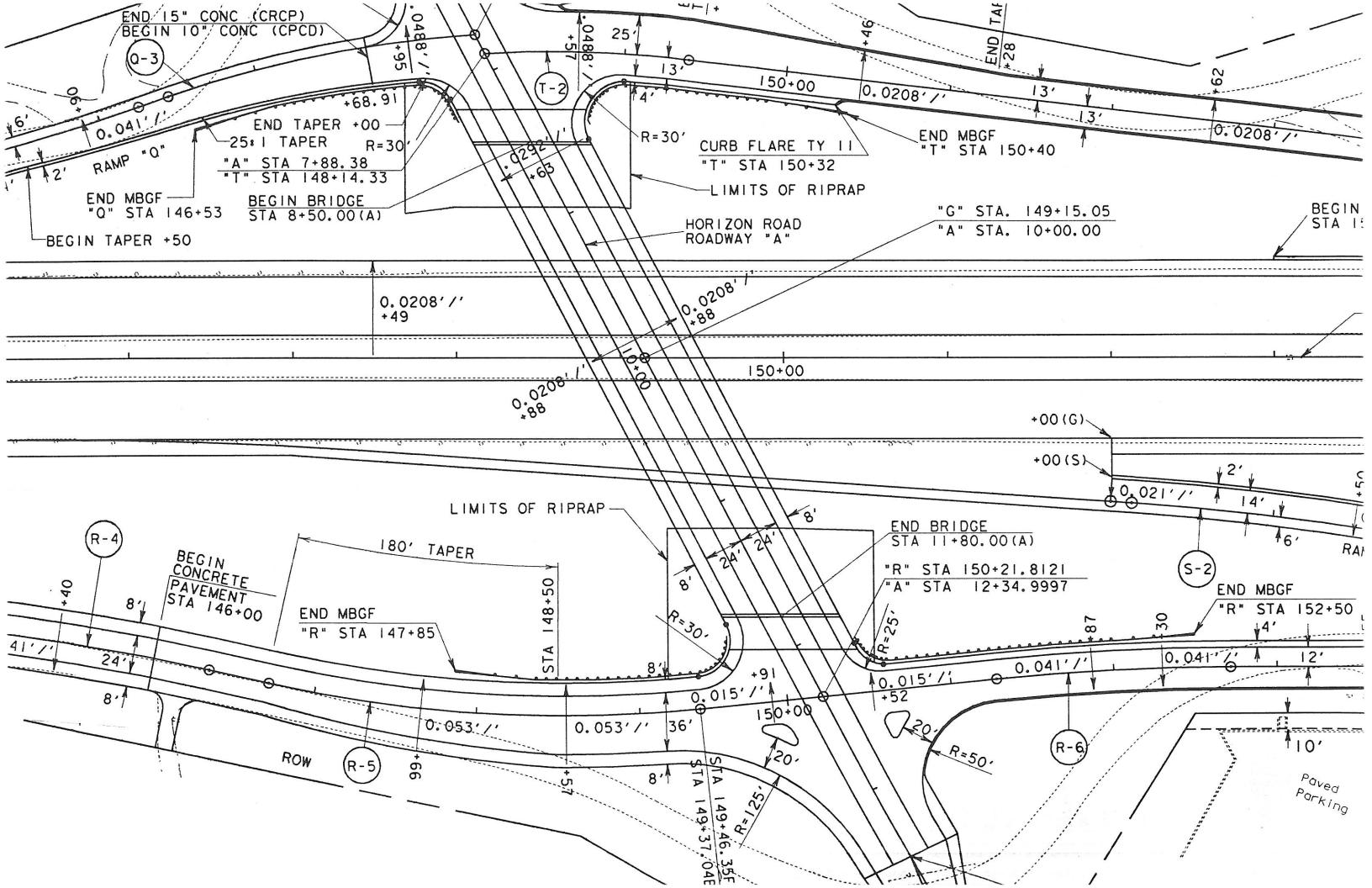
Horizon Road

- Widen to 4 lane undivided in future.
- Interim traffic control One-way from I 30 to FM 740.









QUALITY COUNTS

15 MINUTE, 2 CHANNEL VEHICLE COUNT CORRECTION FACTOR: 1.00

REFERENCE: CITY OF ROCKWALL LOCATION: SUMMER LEE W OF 748

WEATHER: MILD OPERATOR: LL

FILENAME: \VOLPRO\DATA\ROCK702

TUESDAY 9 / 29 / 92

HOUR		₩B		HOUR			EB					HOUR	COMBINED
 BEGINS	8	15	30	45	TOTAL			0	15	30	45	TOTAL	TOTAL
 AM													
12	0	1	0	0	1			1	2	1	1	. 5	6
1	8	0	1	8	1			1	1	3	8	5	6
2	0	8	8	1	1			0	8	8	3	3	4
3	1	0	0	0	1			8	8	8	0	8	1
4	2	2	1	8	5			1	1	1	8	3	8
5	3	2	5	6	16			2	0	0	1	3	19
6	5	11	7	18	41			1	0	2	4	7	48
7	15	19	22	36	92			1	2	2	3	В	100
8	19	20	22	12	73			9	6	4	8	27	100
9	9	7	9	18	35			5	3	7	5	20	55
10	10	11	6	11	38			2	5	4	Ь	17	55
11	8	6	5	6	25			3	6	2	6	17	42
PM													
12	5	8	6	12	31			8	9	6	7	30	61
1	8	6	4	4	22			10	7	4	4	25	47
2	11	7	8	10	36			7	7	11	7	32	88
3	10	3	10	7	30			6	8	7	8	29	59
4	5	3	6	9	23			14	16	18	14	54	77
5	10	9	13	10	42			25	25	15	18	83	125
6	10	15	6	8	39			17	21	15	21	74	113
7	18	8	9	9	44			17	10	19	14	60	104
8	7	2	8	3	28			12	7	12	12	43	63
9	4	4	4	5	17			6	8	11	8	33	50
10	3	5	2	4	14			3	8	6	7	24	38
 11	l 	1 	0	1	3			2	5	3	1	11	14
TOTALS					650							613	1263
AM PEAK HOU	IR IS 7:4	ร ชก คะ	45										
VOLUME			В:	97		EB	:	2			COMBINED:	119	
	NAL SPLIT			82%					3%				
PEAK HOU	R FACTOR			0.67				0.6	l			0.76	
PM PEAK HOU	ID 10 5.00	0 TN 1.	a a										
VOLUME	W 12 7:6		ою В :	40		r n	50 2 %	Δ.	7		COMPTHE	105	
	NAL COLIT		D :	42		EB	:	8			COMBINED:	125	
	NAL SPLIT			34%					6%. •				
FEHR HUU	IR FACTOR			0.81				0.8	3			0.89	

QUALITY COUNTS

15 MINUTE, 2 CHANNEL VEHICLE COUNT CORRECTION FACTOR: 1.00

REFERENCE: CITY OF ROCKWALL

LOCATION: I 30EBSR & OF HORIZON WEATHER: MILD

OPERATOR: LL

FILENAME: \VOLPRO\DATA\ROCK703
WEDNESDAY 9 / 30 / 92

DECEMION: LC												
HOUR BEGINS	8	EB	30	45	HOUR TOTAL		0	W1 15	B 30	45	HOUR TOTAL	COMBINED TOTAL
DE01H3											101NL	TOTAL
AM											•	
12	3	0	0	8	3		1	0	0	0	1	4
1	0	0	2	0	2		0	8	2	0	2	4
2	0	1	0	0	1		0	0	8	0	0	1
3	1	0	0	8	1		1	0	8	Ø	1	2
4	8	8	0	0	0		0	8	0	8	8	8
5	8	8	0	0	8		0	0	Ø	0	8	0
Ь	0	1	0	0	1		0	1	0	1	2	3
7	8	9	8	3	3		0	1	1	6	8	11
8	1	0	4	2	7		9	6	18	8	33	40
9	2	5	2	4	13		12	6	2	5	25	38
10	8	2	0	4	6		5	6	4	1	16	22
11	В	2	9	4	23		12	Ь	10	16	44	67
PM												
12	18	18	14	10	52		13	11	8	9	41	93
1	35	13	17	17	82		14	2	7	6	29	111
2	9	8	10	7	34		4	3	4	4	15	49
3	21	8	8	3	40		11	10	13	15	49	89
4	7	6	8	15	36		20	14	9	16	59	95
5	13	9	16	9	47		9	10	11	8	38	85
6	17	24	13	7	61		20	28	14	13	75	136
7	11	10	20	15	56		20	9	17	16	62	118
8	25	19	12	20	76		23	11	7	15	56	132
9	13	12	9	21	55		10	5	8	8	31	86
18	9	9	5	9	32		4	4	2	2	12	44
11	1	2	6	6	15		8	1	8	1	2	17
TOTALS					646						601	1247
TOTALS					טרט						001	1247
									5 200			
AM PEAK HOU	R IS 11:00	TO 12:	00									
VOLUME			B :	23		₩B	:	44		COMBINED:	67	
	NAL SPLIT			34%				66%				
PEAK HOU				0.64			0	.69			0.84	
					1							
PH PEAK HOU	R IS 7:39	10 8:	30									
VOLUME		E	B :	79		NB	:	67		COMBINED:	146	ĕ
	NAL SPLIT			54%				46%			•	
PEAK HOU	R FACTOR			0.79			0	.73			0.76	

QUALITY COUNTS 15 MINUTE, 2 CHANNEL VEHICLE COUNT CORRECTION FACTOR: 1.00

REFERENCE: CITY OF ROCKWALL

LOCATION: PM-740 NORTH OF SUMMER LEA

WEATHER: WARM

FILE NAME: ROCK 521

DATE: TUESDAY 09/22/92

28		NO	RTHBOUND				SOUTHBOUND				
HOUR BEGINS	0	15	30	45	HOUR TOTAL	0	15	30	45	HOUR	COMBINED TOTAL
AM											
12:00	3	0	1	1	5	11	8	7	7	33	38
1:00	4	0	0	1	5	7	5	1	. 6	19	24
2:00	2	0	1	1	4	4	1	2	0	7	11
3:00	0	1	2	0	3	1	2	1	0	4	7
4:00	4	0	3	6	13	1	1	0	2	4	17
5:00	7	0	16	28	51	6	8	11	10	35	86
6:00	43	49	69	93	254	9	. 8	11	17	45	299
7:00	93	125	130	165	513	21	22	33	41	117	630
8:00	136	178	112	80	506	67	56	64	66	253	759
9:00	84	86	61	69	300	55	44	45	64	208	508
10:00	58	71	52	60	241	42	39	33	42	156	397
11:00	57	50	64	54	225	48	45	59	54	206	431
PH											
12:00	66	61	58	73	258	50	46	56	56	208	466
1:00	52	51	64	70	237	74	89	54	84	301	538
2:00	70	66	82	63	281	116	97	79	60	352	633
3:00	67	53	55	74	249	70	59	76	79	284	533
4:00	61	57	68	92	278	100	78	100	91	369	641
5:00	52	85	70	86	293	119	131	128	129	507	800
6:00	81	80	64	87	312	137	135	121	114	507	819
7:00	69	53	80	59	261	110	88	88	99	385	646
8:00	47	43	36	22	148	111	70	58	53	292	440
9:00	21	19	15	20	75	62	59	42	43	206	281
10:00	17	9	8	9	43	42	35	26	24	127	170
11:00	6	9	9	3	27	19	17	17	12	65	92
TOTALS					4582	···				4690	927

Summer Lee Road

Collector

4 - lanes, undivided

20,000 vpd typical capacity

8,900 vpd typical

500 vph per lane

Horizon Road

Collector (Future)

18' wide, one-way (Existing)

4-lanes, undivided (Future)

550 - 700 vph (Existing)

Land Use Assumptions / Traffic Generation

<u>Use</u>	Density	Acres	Units	Total <u>24-HOUR</u>	Estimated AM PEAK	Trips <u>PM PEAK</u>
Commercial		33.65		1743	268	295
Commerical		8.15		423	65	72
Subtotal	· <u>-</u>	41.80		2166	333	367
General Retail		3.5		3480	82	320
Office Park		6.2		1200	240	250
Zero Lot	5/acre	4.9	24.5	245	18	25
	5/acre	10.9	54.5	545	40	55
	8/acre	9.4	75.2	410	33	41
Townhouse	8/acre	5.0	40	234	18	22
Subtotal		39.9		6114	431	713
Total		81.7		8280	764	1080
	Commercial Commercial Subtotal Subtotal General Retail Office Park Zero Lot Zero Lot Townhouse Townhouse Subtotal	Commercial Commercial Subtotal General Retail Office Park Zero Lot 5/acre Zero Lot 5/acre Townhouse 8/acre Townhouse 8/acre Subtotal	Commercial 33.65 Commercial 8.15 Subtotal 41.80 General Retail 3.5 Office Park 6.2 Zero Lot 5/acre 4.9 Zero Lot 5/acre 10.9 Townhouse 8/acre 9.4 Townhouse 8/acre 9.4 Subtotal 39.9	Commercial 33.65 Commerical 8.15 Subtotal 41.80 General Retail 3.5 Office Park 6.2 Zero Lot 5/acre 4.9 24.5 Zero Lot 5/acre 10.9 54.5 Townhouse 8/acre 9.4 75.2 Townhouse 8/acre 5.0 40 Subtotal 39.9	Use Density Acres Units 24-HOUR Commercial 33.65 1743 Commercial 8.15 423 Subtotal 41.80 2166 General Retail 3.5 3480 Office Park 6.2 1200 Zero Lot 5/acre 4.9 24.5 245 Zero Lot 5/acre 10.9 54.5 545 Townhouse 8/acre 9.4 75.2 410 Townhouse 8/acre 5.0 40 234 Subtotal 39.9 6114	Use Density Acres Units 24-HOUR AM PEAK Commercial 33.65 1743 268 Commercial 8.15 423 65 Subtotal 41.80 2166 333 General Retail 3.5 3480 82 Office Park 6.2 1200 240 Zero Lot 5/acre 4.9 24.5 245 18 Zero Lot 5/acre 10.9 54.5 545 40 Townhouse 8/acre 9.4 75.2 410 33 Townhouse 8/acre 5.0 40 234 18 Subtotal 39.9 6114 431

Technical Memorandum

To:

Julie Couch

Assistant City Manager

From:

Mark G. Goode, III, P.E. Who toll
Vice President

Subject:

Summer Lee Road / FM 740

Traffic Circulation Study

Purpose and Scope

The purpose of the subject study is to determine the most appropriate location for the proposed extension of Summer Lee Road to intersect the I 30 Service Road. A secondary, but important task is to review overall traffic circulation in the area bound by I 30 and FM 740 and the lake.

We have reviewed area land uses - existing and proposed - and calculated the amount and type of development that might occur in the future. We have calculated the traffic that might be generated by the anticipated development and reviewed existing traffic counts. We reviewed the TxDOT traffic projections in the vicinity of the proposed intersection of Summer Lee Road and I 30 service road using the design guidelines in the TxDOT Highway Design Division Operations and Procedures We have developed a recommendation for the proposed roadway alignment and Manual. intersection.

Analysis

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The ultimate solution to balanced traffic circulation in the area is widening Horizon Road to a full 2way roadway. The recommendations are attached.



Recommendations

Summer Lee Road

- Intersection @ I 30 550' from Exit Ramp.
- Horizontal and Vertical alignment 35 mph Design Speed (minimum).
- All intersections and driveways subject to Sight Distance Analysis -35 mph Design Speed (minimum).
- Connection to existing Summer Lee OK.

Horizon Road

- Widen to 4 lane undivided in future.
- Interim traffic control One-way from I 30 to FM 740.

Job No. 48-01-01

City of Rockwall 205 W. Rusk Rockwall, Texas 75087

Attention:

Ms. Julie Couch

Assistant City Manager

Reference:

Summer Lee Road / I30 / FM 740

Traffic Circulation Study

Dear Julie:

Thank you for giving Bridgefarmer & Associates, Inc. (B&A) the opportunity to propose on the referenced project. We understand that the City of Rockwall is interested in securing the most appropriate services necessary to analyze the appropriate alignment for the extension of Summer Lee Road between the I30 Service Road and where it ends near FM 740. Therefore, we propose to provide the following Scope of Work in such a manner as to incur the least cost.

SCOPE OF WORK

B&A proposes to perform the following tasks:

- 1. B&A will analyze the amount of traffic generated by both the 41.80 acre (PD-7) and 39.9 acre (PD-18) tracts and estimate the trip orientations.
- 2. B&A will consider traffic generated by existing developments on Summer Lee Road west of FM 740 in the estimate of traffic on the extension of Summer Lee.
- 3. B&A will tabulate the impacts (both positive and negative) of the roadway as proposed by the developer (applicant).
- 4. B&A will provide "draft" presentation sheets that summarize the traffic impacts of the proposed development and roadway alignment to the City of Rockwall by Tuesday, April 27.
- 5. Upon approval by the City, B&A will prepare final presentation boards (24" x 36") and 8-1/2" x 11" reductions for presentation and distribution at the Plan Commission Meeting.
- 6. Mark Goode will attend the City Plan Commission Meeting on April 27, 1993 as directed by the City.

COMPENSATION

B&A proposes to be compensated on a Not-To-Exceed basis for the Scope of Work described above:

Tasks	1-5	\$350.00
Task	6	\$200.00

BASIS OF PROPOSAL

This proposal is conditional on the following:

- 1. B&A will attend one additional meeting at the City of Rockwall prior to the City Plan Commission meeting scheduled for 7:00 PM, Thursday, April 29, 1993.
- 2. All proposed land use, zoning, and thoroughfare plan information will be furnished to B&A by others.

METHOD OF PAYMENT

B&A proposes to be paid monthly on the basis of the following Billing Rates for progress made and work actually performed on the project. The Billing Rates will be either the Labor Rates by Job Classification listed below or the actual Salary Cost times a multiplier of 1.88 plus a 12% profit rate. Salary Cost is currently estimated at 38% of actual salary rates.

Labor:	JOB CLASSIFICATION Principal Engineer Technician/Drafter Clerical Survey Crew	LABOR RATES \$100.00 per hour \$ 75.00 per hour \$ 55.00 per hour \$ 30.00 per hour \$ 80.00 per crew hour
Expenses:	Computer/CAD Plots Prints Copies Mileage Outside Expenses	 \$ 10.00 per hour \$ 5.00 each \$ 2.00 each \$.20 each \$.30 per mile At Cost multiplied by 1.10

We hope you will find this proposal satisfactory for your purposes. Please call me if you have any questions or need any other information. We look forward to working with you on this project. Thank you.

Very truly yours,

BRIDGEFARMER & ASSOCIATES, INC.

Mark G. Goode, III, P.E.

Vice President

MGG:crh



CITY OF ROCKWALL

"THE NEW HORIZON"

July 7, 1993

Mr. Harold Evans Consulting Engineers P. O. Box 28355 Dallas, Texas 75228

Dear Harold:

Enclosed is a copy of the invoice from Bridgefarmer and Associates for their review of the Summer Lee alignment. As was indicated at the time of review by the Planning and Zoning Commission, this review was a condition of their review and that of the City Council.

Let me know if you have any questions.

Sincerely,

Julie Couch/hec Julie Couch

City Manager

hcc

encl.

					STATEMEN'	T NUMBE	R:	93-48	0101-001-JJV	V
ITY OF ROC	KWALL				DATE:			25-Jui	n-93	
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ockwall, TX 75	5087						ro	24-M	ay-93	
TTENTION:	Ms. Julie C	Couch								
	Assistant C	City Manage	er							
		FOR P	ROFESSIO	NAL ENG	INEERING SE	ERVICES:				
			Summe Tra	er Lee Road , affic Circula	/ I30 / FM 740 tion Study					
			S'	TATEN	MENT					
									\$800.00	
SALARIES Mark	G. Goode, III, P.E.		8 Hours	S	\$800.00)			\$800.00	
		•	3 Hours	s	\$31.50	<u>)</u>				
Techr	nical/Clerical Support Multiplier fo	or Salary Cost	t		1.8					1
	Multiplier fo	or Overhead a	and Profit		\$66.33				\$66.33	
	Subtotal for	Technical/Cl	епса Suppoi	11	400.0				\$3.00	
EXPENSES										
		TOTAL	AMOUNT '	THIS STA	TEMENT				\$869.33	
			SUM	IMARY O	F INVOICES					
	TO THOUSAND IN D	T I ED							\$0.00	
TOTAL AMOU	NT PREVIOUSLY B NED DURING THIS	INVOICE P	ERIOD						\$869.33 \$869.33	1
TOTAL AMOU	NT EARNED TO DA	ATE							4007.00	
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Documentatio	on of charges on fi									
Please make r	emittance to:	Bridgefa	rmer & A	ssociates,	Inc.			u.		1
i			th Sherman		90					1
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			SU	MMARY (OF CHARGE	S				
CLERICAL SU	PPORT					Over	Equiv.	Total	Total	Hourly
Week Ending	24-A ₁	pr 1-May	8-May			Time	Hours	Hours	Salary	Rate \$10.50
2	assification erical	1 1.5	0.5					3 0	\$31.50 \$0.00	\$10.50
Huston Cit	, ica							0	\$0.00	
	. 1	1 1.5	0.5	0	0	0	0 0	3	\$31.50	
То	otal	1 1.5	0.0	7						

Copies Total

\$3.00 \$3.00

EXPENSES

CITY OF ROCKWALL Planning and Zoning Agenda

Agenda Date:

April 29, 1993

Agenda No: II. A.

Agenda Item:

PZ-93-14-PP - Discuss and Consider Recommending Approval of a Preliminary Plat/Concept

Plan for Summer Lee Drive Extension

Item Generated By:

Action Needed:

Background Information:

Attachments:

1. Concept Plan

2. A traffic consultant's report will be forwarded to you tommorrow.



CITY OF ROCKWALL City Council Agenda

Agenda Date:	April 19, 1993	Agenda No:	X. A.
Agenda Item:	PZ-93-14-PP - Discuss and Consider Approval of a Preliminary Summer Lee Drive Extension	Plat/Concept	Plan for
Item Generated By:			
Action Needed:			
	on: The Planning and Zoning Commission will consider the preliming restay night. We will forward their recommendation to you on Friday		

Attachments:

- Map showing proposed location for Summer Lee Drive Extension.
 The P&Z's recommendation will be forwarded to you on Friday.



CITY OF ROCKWALL City Council Agenda

A	COM	oh	Date:	
м	201	ICIA	II JAN II STA	

May 17, 1993

Agenda No: VI. A.

Agenda Item:

PZ-93-14-PP - Discuss and Consider Approval of a Preliminary Plan/Concept Plan for

Summer Lee Drive Extension

Item Generated By:

Action Needed:

Background Information: This item was tabled at your last meeting.

Attachments:

1. Memo from Julie Couch

MEMORANDUM May 12, 1993

TO:

Mayor and Councilmembers

FROM:

Julie Couch, Acting City Manager

RE:

Summer Lee Drive Extension

At the last meeting the applicant for the concept plan for Summer Lee requested that the itme be withdrawn from that agenda and placed on the May 17 agenda. We have the item on the agenda. we have not received any additional proposals or comments from the applicant so we do not know if they are proposing any changes to the original layout. You received a copy of the proposed layout in your may 3 packet. We are attaching another copy of the report the City received from the consulting engineer used to review the alignment. He will be here Monday night to answer any questions the Council may have. If we receive any additional information regarding the request we will forward it on Friday.