

THE UNIVERSITY OF CHICAGO
LIBRARY

IN-PLACE DENSITY TESTING

Client: Jeske Construction Company
Attn: Mr. Steve Jeske
2546 Merrell Rd.
PO Box 59025
Dallas TX 75229

Report No.: 125607
Project No.: 014778
Date of Service: 05/23/2001
Report Date: 06/03/2001

Project: Broadway Road Improvements
Town of Addison
Addison, TX

Services: Perform In-Place Density Test in accordance with ASTM Standards.

PROJECT DATA

CONTRACTOR: Jeske Construction Co.

Test Methods: ASTM D-2922
ASTM D-3017

Gauge: Troxler 3401

Gauge Serial No: 4299

Test Mode: DT

Standard Counts

Moisture

Current: 581

Previous: NA

Density

Current: 2158

Previous: NA

MOISTURE DENSITY RELATIONS

M/D No.	Description	Moisture %	Maximum Density pcf	Project Requirements	
				Moisture	Density
1	Dark brown clay and flexbase mix	22.0	102.0	Optimum +4	95 min

FIELD DENSITY TESTS

TEST NO	TEST LOCATION	PROBE DEPTH	M/D No.	MOISTURE (%)	WET DENSITY (pcf)	DRY DENSITY (pcf)	DENSITY (% max)
1	Paving Retest #1 from 05/22/2001	6"	1	16.4*	118.5	101.8	100
2	Paving Retest #3 from 05/22/2001	6"	1	18.1*	119.0	100.8	99

An asterisk (*) appears next to test results which do NOT meet the project specifications.

Technician: Marshall Knox

Started: 7:00am

Finished: 9:30am

Rone Engineers, Inc.

Report Distribution:

- (1) Jeske Construction Company
- (1) Shimck, Jacobs & Finklea, LLP
- (1) Town of Addison
- (1) Town of Addison

Clay Stark
Clay Stark
Project Manager

REPORT OF CYLINDER COLLECTION

Client: Jeske Construction Company
Attn: Mr. Steve Jeske
2546 Merrell Rd.
PO Box 59025
Dallas TX 75229

Report No.: 125912
Project No.: 014778
Date of Service: 05/26/2001
Report Date: 06/04/2001

Project: Broadway Road Improvements
Town of Addison
Addison, TX

Services: Cylinder Collection

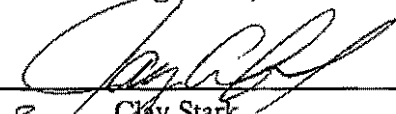
Report of Collection

On this date, a Rone Engineers, Inc. representative arrived on site as scheduled to pick up compressive strength test specimens cast prior to this date.

Technician Time: 6:30am - 8:30am

Page 1 of 1

Rone Engineers, Inc.



For Clay Stark
Project Manager

Technician: Anthony Maldonado

Report Distribution:

- (1) Jeske Construction Company
- (1) Shimek, Jacobs & Finklea, LLP
- (1) Town of Addison
- (1) Town of Addison

REPORT OF CYLINDER COLLECTION

Client: Jeske Construction Company
Attn: Mr. Steve Jeske
2546 Merrell Rd.
PO Box 59025
Dallas TX 75229

Report No.: 126067
Project No.: 014778
Date of Service: 05/31/2001
Report Date: 06/04/2001

Project: Broadway Road Improvements
Town of Addison
Addison, TX

Services: Cylinder Collection

Report of Collection

On this date, a Rone Engineers, Inc. representative arrived on site as scheduled to pick up compressive strength test specimens cast prior to this date.

Technician Time: 2:00pm - 3:30pm

Page 1 of 1

Technician: David Palmer

Report Distribution:

- (1) Jeske Construction Company
- (1) Shimek, Jacobs & Finklea, LLP
- (1) Town of Addison
- (1) Town of Addison

Rone Engineers, Inc.



Clay Stark
Project Manager

CONCRETE COMPRESSIVE STRENGTH TEST

Client: Jeske Construction Company
 Attn: Mr. Steve Jeske
 2546 Merrell Rd.
 PO Box 59025
 Dallas TX 75229

Report No.: 125835
Project No.: 014778
Date of Service: 05/25/2001
Report Date: 06/05/2001

Project: Broadway Road Improvements
 Town of Addison
 Addison, TX

Services: Obtain samples of fresh concrete at the placement locations, perform required field testing, cast compressive strength samples and bring samples back to the laboratory for curing and testing in accordance with applicable standards.

PROJECT DATA

CONTRACTOR: Jeske Construction Co.
CONCRETE SUPPLIER: Lattimore
PLANT: 7

MIX DESIGN LD.: 44
PLACEMENT DATE: 05/25/2001
WEATHER CONDITIONS: Sunny

SPECIFICATION REQUIREMENTS

STRENGTH: 4500 psi @ 28 Days
SLUMP (in): 1" - 4"
AIR (%): NA

TIME SAMPLED: 12:54pm **BATCH TIME:** 12:08pm
TEMPERATURE (F) - AIR NA F CONCRETE: NA F
TRUCK NO: 1092 **TICKET NO:** 7102429
AIR CONTENT (%): NA **UNIT WEIGHT (pcf):** NA

TEST METHOD: ASTM C-172
 ASTM C-31
 ASTM C-143
 ASTM C-231
 ASTM C-1064
 ASTM C-138
 ASTM C-39

OVERALL PLACEMENT LOCATION:
 Station 2+50, south side parking lot

SAMPLE LOCATION: Station 2+50, south side parking lot

REPORT OF TESTS

Concrete Compressive Cylinder 6" x 12" (area 28.27 sq. in.)

CYLINDER MARKED		MEASURED SLUMP	DATE TESTED	AGE	MAXIMUM LOAD	COMPRESSIVE STRENGTH	FRACTURE TYPE
SET	NO.	(inches)		(days)	(lbs. force)	(psi)	
1	1	4.0	06/01/2001	7	111940	3960	Unbonded Cap
1	2	4.0	06/22/2001	28			Unbonded Cap
1	3	4.0	06/22/2001	28			Unbonded Cap
1	4		Hold				

Water Added at Site: 10 gallons

Technician: Anthony Maldonado

Started: 12:30pm **Finished:** 2:31pm

Rone Engineers, Inc.

Report Distribution:

- (1) Jeske Construction Company
- (1) Shimek, Jacobs & Finklea, LLP
- (1) Town of Addison
- (1) Town of Addison



Clay Stark
 Project Manager

LIMITATIONS: The test results presented herein were prepared based upon the specific samples provided for testing. We assume no responsibility for variation in quality (composition, appearance, performance, etc.) or any other feature of similar subject matter provided by persons or conditions over which we have no control. Our letters and reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced except in full without the written approval of Rone Engineers, Inc.

CONCRETE COMPRESSIVE STRENGTH TEST

Client: Jeske Construction Company
Attn: Mr. Steve Jeske
2546 Merrell Rd.
PO Box 59025
Dallas TX 75229

Report No.: 125802
Project No.: 014778
Date of Service: 05/25/2001
Report Date: 06/05/2001

Project: Broadway Road Improvements
Town of Addison
Addison, TX

Services: Obtain samples of fresh concrete at the placement locations, perform required field testing, cast compressive strength samples and bring samples back to the laboratory for curing and testing in accordance with applicable standards.

PROJECT DATA

CONTRACTOR: Jeske Construction Co.
CONCRETE SUPPLIER: Lattimore
PLANT: 7

MIX DESIGN LD.: 44
PLACEMENT DATE: 05/25/2001
WEATHER CONDITIONS: Sunny

SPECIFICATION REQUIREMENTS

STRENGTH: 4500 psi @ 28 Days
SLUMP (in): 1" - 4"
AIR (%): NA

TIME SAMPLED: 9:39am **BATCH TIME:** 8:36am
TEMPERATURE (F) - AIR NA F CONCRETE: NA F
TRUCK NO: 1039 **TICKET NO:** 2102405
AIR CONTENT (%): NA **UNIT WEIGHT (pcf):** NA

TEST METHOD: ASTM C-172
ASTM C-31
ASTM C-143
ASTM C-231
ASTM C-1064
ASTM C-138
ASTM C-39

OVERALL PLACEMENT LOCATION:
Station 1+00, south side parking lot

SAMPLE LOCATION: Station 1+00, south side parking lot

REPORT OF TESTS

Concrete Compressive Cylinder 6" x 12" (area 28.27 sq. in.)

CYLINDER MARKED		MEASURED SLUMP	DATE TESTED	AGE	MAXIMUM LOAD	COMPRESSIVE STRENGTH	FRACTURE TYPE
SET	NO.	(inches)		(days)	(lbs. force)	(psi)	
1	1	5.5	06/01/2001	7	98600	3490	Unbonded Cap
1	2	5.5	06/22/2001	28			Unbonded Cap
1	3	5.5	06/22/2001	28			Unbonded Cap
1	4		Hold				

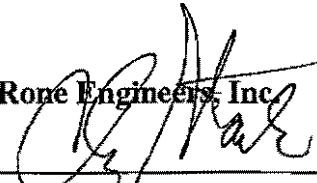
Contractor notified of 5 1/2" slump.

Technician: Anthony Maldonado

Started: 9:30am

Finished: 10:00am

Rone Engineers, Inc.



Clay Stark
Project Manager

Report Distribution:

- (1) Jeske Construction Company
- (1) Shimek, Jacobs & Finklea, LLP
- (1) Town of Addison
- (1) Town of Addison

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Jeff M -

Town of Addison Project Application

Project Name (Maximum 30 characters)		BROADWAY PAVING	
Project Description			
Reconstruct pavement on Broadway Replace aged pavement & drainage.			
RECEIVED			
JUL 14 2000			
TOWN OF ADDISON FINANCE DEPT.			
Project Type:	<input type="checkbox"/> Operating/Unique	<input type="checkbox"/> Operating/Recurring	<input checked="" type="checkbox"/> Capital <input type="checkbox"/> Special Event
Time to Complete (in months)	12		
Located in Planning Sector :	1	2	3
	4	5	6
	N/A		

Project Time Line

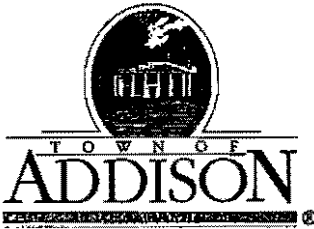
Phase (engineering, ROW, acquisition, construction, etc.)	Start Date	Months	Cost
#1			\$
#2 Engineer			\$ 5,500.-
#3 Construction			\$ 191,000.-
#4			\$
#5			\$
#6			\$
#7			\$
#8			\$
	5/1/2000		
		6 9 12 15 18 21 24	
		Months	\$ 196,500.-
			Total Budget

Finance Department Use

Project # 1 5 3 0 0
 Year Sector Type Fee Seq.

Entered 7/14/00 Dg

Robin -
for your
Broadway Street file
Jim



PUBLIC WORKS DEPARTMENT

Post Office Box 9010 Addison, Texas 75001-9010

(972) 450-2871

16801 Westgrove

April 9, 1999

Ms. Holly Mentler
Mentler Marketing Services
4819 Broadway St.
Addison, Texas 75001

Re: Broadway Street

Dear Ms. Mentler:

Thank you for taking the time to write us about your concerns regarding Broadway Street. The Town of Addison is very interested in making improvements in the "old town" area if that is what the property owners desire. Because Broadway is a local street principally serving only the adjacent property owners the Town would make improvements as part of a voluntary street assessment program.

In a voluntary street assessment the property owners on both sides of the street would pay for 1/3 of the cost of the street based on their street frontage. The middle one-third would be paid for by the Town.

If you and your neighbors want to pursue this project please call me at 972/450-2871 so we can work through the documents to establish the voluntary street assessment district. The estimated cost to reconstruct this roadway as a concrete street is \$200,000.

I am looking forward to working with you and your neighbors on this important infrastructure project.

Sincerely,

John R. Baumgartner, P.E.
Director of Public Works

cc: Jody Garcia
Jim Pierce
Ron Whitehead

M E N T L E R

DRG MARKETING SERVICES

4819
BROADWAY
ADDISON
TEXAS
75001

MARCH 23, 1999

JIM PIERCE
ASSISTANT CITY ENGINEER
P O BOX 9010
ADDISON, TX 75001

DEAR MR. PIERCE:

AFTER READING THE RECENT ARTICLE ON "TRANSPORTATION MOVES FORWARD IN ADDISON" IN THE ADDISON ADDRESS, IT STRUCK ME THAT I OWN PROPERTY ON THE WORST STREET IN ADDISON.

BROADWAY BARELY EVEN RESEMBLES A STREET - BUT RATHER A MISMATCHED COLLAGE OF ASPHALT PATCHES. OVER THE LAST THREE YEARS, BROADWAY HAS CONTINUALLY BEEN ABUSED AND IGNORED BY CITY PLANNERS.

CONSIDER THE ABUSE THIS POOR STREET ENDURES ALMOST DAILY:

- HEAVY EQUIPMENT FOR THE DART PROJECT.
- TRAILERS OF BUILDING SUPPLIES FOR ADDISON CIRCLE AND DART PROJECT.
- SPEEDING TRUCKS AND CARS OF CONSTRUCTION CREWS
- PARADES OF HEAVY EQUIPMENT, TRASH TRUCKS, TENT TRUCKS, REFRIGERATED VENDING TRUCKS PRIOR, DURING AND AFTER EVERY SPECIAL EVENT.

IN ADDITION, WE HAVE ENDURED ALL THE DUST, MUD AND NOISE THAT PROGRESS BRINGS.

MY QUESTION TO YOU IS, WHEN WILL SOMETHING BE DONE TO CORRECT THE SUB-STANDARD CONDITION OF THIS PUBLIC STREET?

LOOKING FORWARD TO YOUR REPLY.

SINCERELY,

Holly Mentler
HOLLY MENTLER

PC: MAYOR RICHARD N. BECKERT
JODY MAYES GARCIA

972 233-1414

239-7361

mentler@aol.com

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS

8333 Douglas Avenue, #820

Dallas, Texas 75225-5816

Fax (214) 361-0204

Phone (214) 361-7900

RONALD V. CONWAY, P.E.
JOHN W. BIRKHOFF, P.E.
JOE R. CARTER, P.E.
GARY C. HENDRICKS, P.E.
PAUL A. CARLINE, P.E.
MATT HICKEY, P.E.

ROSS L. JACOBS, P.E.
I. C. FINKLEA, P.E.
JOHN R. BAUMGARTNER, P.E.

MAILED
COPY TO J.B.
7-25-00

May 12, 2000

Mr. Robin Jones
Town of Addison
Post Office Box 9010
Addison, Texas 75001-9010

Re: Engineering Services Agreement
Broadway Paving and Drainage Improvements

Dear Mr. Jones:

In accordance with your request, we propose to furnish engineering services for the preparation of plans and specifications for paving and drainage improvement to Broadway from Addison Road to a point 385-feet to the east. Our services will include the following:

- 1) Paving plan to include all pavement, including parking areas.
- 2) Paving contour plan for vertical elevation.
- 3) Drainage design for slotted drain along south gutter line and discharging, as it does now, into railroad ditch.
- 4) Preparation of marking plan.
- 5) Preparation of detail sheets.
- 6) Quantity take-off and formulation of opinion of probable construction cost.
- 7) Preparation of bidding documents and specifications.
- 8) One design meeting with the staff.
- 9) Printing and delivery of plans and specifications.
- 10) Attendance at bid opening, tabulation of bids, and check contractor references.
- 11) Prepare letter of recommendation for award of construction contract.
- 12) Conduct pre-construction conference.
- 13) Review shop drawing submittals.
- 14) Attend one construction meeting.

Mr. Robin Jones
Town of Addison
May 12, 2000
Page 2 of 2

It is our understanding that the Town will send out notices, complete contract preparation, prepare monthly pay requests and other related construction related items not delineated in our services. We propose to be compensated on the basis of salary cost times a multiplier of 2.3, with expenses at invoice cost times 1.15. We recommend a budget of \$14,940.00 be established for our services. If you are in agreement, please have the Town execute one copy of this letter agreement and return one copy to our office. We will commence our services at your direction.

We are available at your convenience to discuss any questions you may have with our proposal and scope of services.

Sincerely,



John W. Birkhoff, P.E.

APPROVED FOR THE TOWN OF ADDISON

By: 

Date: 7/12/00

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS

8333 Douglas Avenue, #820

Dallas, Texas 75225-5816

Fax (214) 361-0204

Phone (214) 361-7900

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May 12, 2000

Mr. Robin Jones
Town of Addison
Post Office Box 9010
Addison, Texas 75001-9010

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- 8) One design meeting with the staff.
- 9) Printing and delivery of plans and specifications.
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- 11) Prepare letter of recommendation for award of construction contract.
- 12) Conduct pre-construction conference.
- 13) Review shop drawing submittals.
- 14) Attend one construction meeting.

Mr. Robin Jones
Town of Addison
May 12, 2000
Page 2 of 2

It is our understanding that the Town will send out notices, complete contract preparation, prepare monthly pay requests and other related construction related items not delineated in our services. We propose to be compensated on the basis of salary cost times a multiplier of 2.3, with expenses at invoice cost times 1.15. We recommend a budget of \$14,940.00 be established for our services. If you are in agreement, please have the Town execute one copy of this letter agreement and return one copy to our office. We will commence our services at your direction.

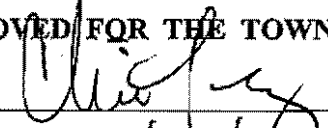
We are available at your convenience to discuss any questions you may have with our proposal and scope of services.

Sincerely,



John W. Birkhoff, P.E.

APPROVED FOR THE TOWN OF ADDISON

By: 

Date: 7/12/00

Jeffrey Markiewicz

From: Randy Moravec
Sent: Wednesday, July 05, 2000 10:10 AM
To: Jeffrey Markiewicz
Cc: Michael Murphy
Subject: Broadway Paving Project

Jeff,

Please send me a capital project request form for Broadway Paving. I need to assign a project number before I pay a Shimek, Jacobs bill.

THANKS!!!

Randy

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS

8333 Douglas Avenue, #820

Dallas, Texas 75225-5816

Fax (214) 361-0204

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ROSS L. JACOBS, P.E.
I. C. FINKLEA, P.E.

May 1, 2000

Mr. Robin Jones
Town of Addison
Post Office Box 144
Addison, Texas 75001-0144

Re: Broadway Street
Pavement Improvement

Dear Mr. Jones:

We have reviewed two viable options for upgrading the paving along Broadway Street from Addison Road to 385 feet east of Addison Road. Both options include a slotted drain pipe to convey storm water from the pavement section and discharging it into the drainage channel in the DART right of way located to the south. Also an underground storm sewer pipe is included in the improvements to be replaced. Our opinion of construction cost for the storm drainage improvements is approximately \$31,000.00.

Alternate one for the pavement improvements includes removal of approximately eight inches of existing pavement and base, compaction of the subgrade and placing eight inches of reinforced concrete pavement as shown on the attached exhibit. The second alternate removes two inches of the existing surface and mixes the remainder with hydrated lime with a two-inch asphalt surface. Both alternates will require a finished grade that conveys storm water to the south into the proposed slotted drain. Both alternates would be required to be constructed in sections in an attempt to maintain traffic for the local businesses along the street. It is our opinion that the concrete alternative would be less disruptive and could be constructed easily in sections. Mixing the existing base will require larger areas to be closed during construction so heavy construction equipment can be used. The concrete section in alternate one would require less maintenance than the two inches of asphalt over a ridge base.

Our opinion of probable construction cost for the eight inches of reinforced concrete pavement and drainage improvements is approximately \$191,000.00. Our opinion for the asphalt section with the mixed base is approximately \$86,000.00. We are available at your convenience to discuss any questions you may have with our review of two paving alternates for Broadway Street.

Sincerely,



John W. Birkhoff, P.E.

Enclosure

**TOWN OF ADDISON
PAYMENT AUTHORIZATION MEMO**

DATE 6 | 26 | 00

CLAIM # _____

CHECK AMOUNT \$ 2,103.35

CALL SANDRA
ON TUESDAY
FOR ACCOUNT
NUMBER

PROJECT # IS
15300

Shimek, Jacobs & Finkbea
3333 Douglas Ave #820
Dallas, TX

75225-5816

41000 56570
15300

INVOICE # OR DESCRIPTION	FUND	AMOUNT	SAC	AMOUNT
2000119 (247)	(01)	A project number has never been assigned.	100)	(0000.00)
				2103.35
			TAL	\$2,103.35

EXPLANATION

Engineer studies for Broadway
pavement reconstruction project.

J. Parkowicz
AUTHORIZED SIGNATURE

FINANCE

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS

8333 Douglas Avenue, #820

Dallas, Texas 75225-5816

Fax (214) 361-0204

Phone (214) 361-7900

Town of Addison
Post Office Box 9010
Addison, Texas 75001-9010
Attention: Mr. Jeff Markiewicz

Date: May 26, 2000

Statement No. 2000119 (247)

Services through April 30, 2000,
in connection with opinions of probable
construction cost for various pavement
alternatives for Broadway Street

Time of Personnel:

AutoCAD Tech II	26.5 Hrs.	\$ 1,786.89
AutoCAD Tech II	4.0 Hrs.	171.51
Word Processor	.5 Hr.	<u>21.97</u>

\$ 1,980.37

Expense: Automobile	\$ 18.33
Printing	<u>104.65</u>

122.98

\$ 2,103.35
=====

Total Contract Amount	\$ 5,500.00
Current Billing	2,103.35
Previous Billings	<u>2,188.75</u>
Balance	\$ 1,207.90

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS

8333 Douglas Avenue, #820 Dallas, Texas 75225-5816 Fax (214) 361-0204 Phone (214) 361-7900

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I. C. FINKLEA, P.E.

May 1, 2000

Mr. Robin Jones
Town of Addison
Post Office Box 144
Addison, Texas 75001-0144

Re: Broadway Street
Pavement Improvement

Dear Mr. Jones:

We have reviewed two viable options for upgrading the paving along Broadway Street from Addison Road to 385 feet east of Addison Road. Both options include a slotted drain pipe to convey storm water from the pavement section and discharging it into the drainage channel in the DART right of way located to the south. Also an underground storm sewer pipe is included in the improvements to be replaced. Our opinion of construction cost for the storm drainage improvements is approximately \$31,000.00.

Alternate one for the pavement improvements includes removal of approximately eight inches of existing pavement and base, compaction of the subgrade and placing eight inches of reinforced concrete pavement as shown on the attached exhibit. The second alternate removes two inches of the existing surface and mixes the remainder with hydrated lime with a two-inch asphalt surface. Both alternates will require a finished grade that conveys storm water to the south into the proposed slotted drain. Both alternates would be required to be constructed in sections in an attempt to maintain traffic for the local businesses along the street. It is our opinion that the concrete alternative would be less disruptive and could be constructed easily in sections. Mixing the existing base will require larger areas to be closed during construction so heavy construction equipment can be used. The concrete section in alternate one would require less maintenance than the two inches of asphalt over a ridge base.

Our opinion of probable construction cost for the eight inches of reinforced concrete pavement and drainage improvements is approximately \$191,000.00. Our opinion for the asphalt section with the mixed base is approximately \$86,000.00. We are available at your convenience to discuss any questions you may have with our review of two paving alternates for Broadway Street.

Sincerely,



John W. Birkhoff, P.E.

Enclosure

5/01/00 JLY A:\addison\2000-119\addison_broadway-012.dwg FULL SCALE 1"=20' Revit 2000-119phase

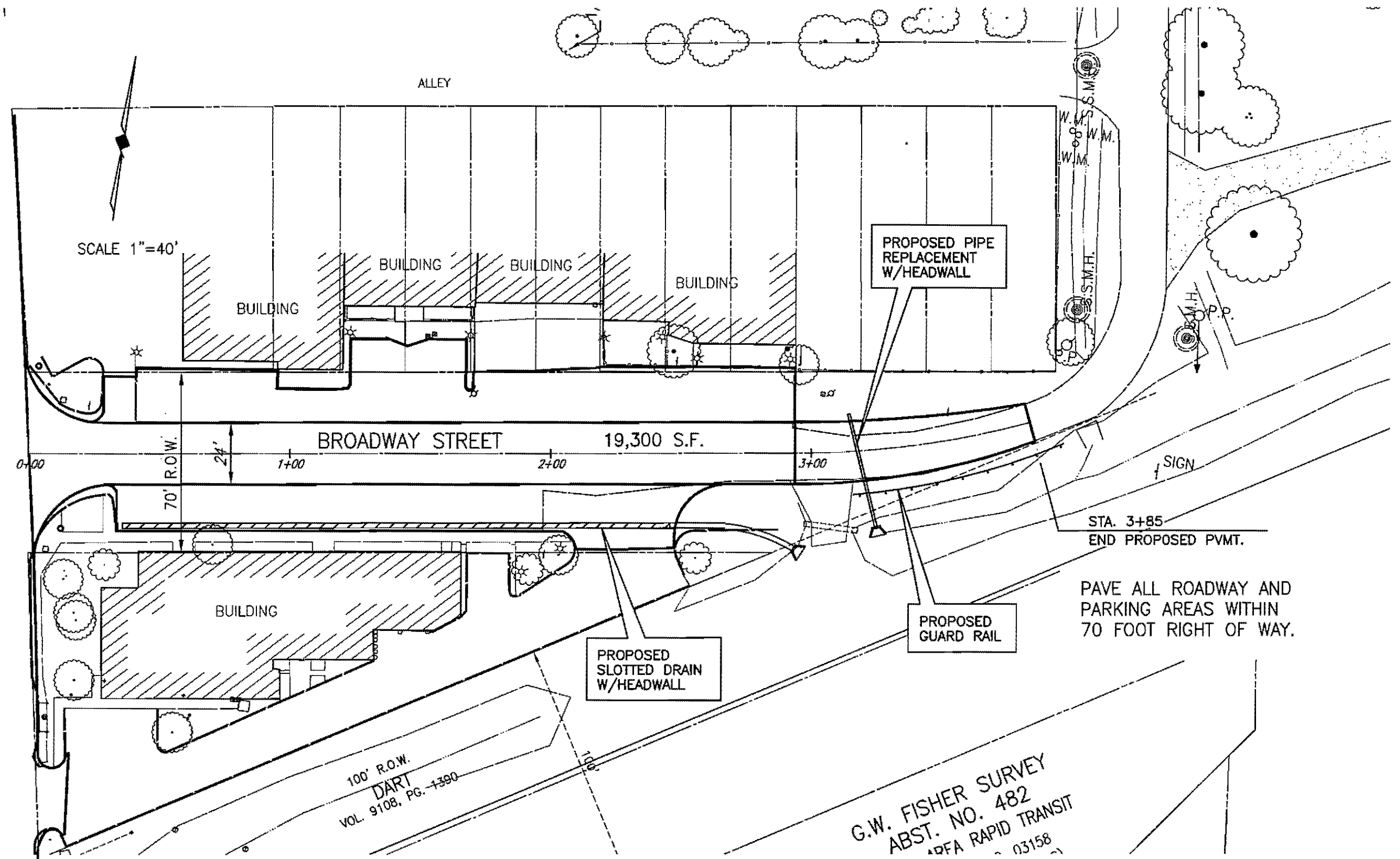
ADDISON ROAD

19+00

18+40

17+00

SCALE 1"=40'



OPTION A
OPINION OF CONSTRUCTION COST

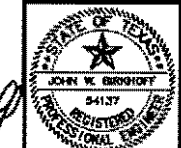
8" REINF. CONCRETE	\$150,000
DRAINAGE PIPE & HEADWALL	\$10,000
SLOTTED DRAIN & HEADWALL	\$31,000
TOTAL	\$191,000

OPTION B
OPINION OF CONSTRUCTION COST

MIX BASE WITH LIME PLUS 2" ASPHALT	\$45,000
DRAINAGE PIPE & HEADWALL	\$10,000
SLOTTED DRAIN & HEADWALL	\$31,000
TOTAL	\$86,000

G.W. FISHER SURVEY
ABST. NO. 482
DFA RAPID TRANSIT 03158

THESE DOCUMENTS ARE FOR BIDDING, CONSTRUCTION, AND PERMIT PURPOSES.
John W. Berrigoff
DATE: 5/1/00



TOWN OF ADDISON, TEXAS	
BROADWAY STREET PAVEMENT IMPROVEMENT STUDY	
SHIMEK, JACOBS & FINKLEA, L.L.P. CONSULTING ENGINEERS Dallas, Texas	
DESIGNED BY: J.W.B.	PROJECT: 2000-119
DRAWN BY: J.L.Y.	DATE: MAY 2000
SHEET NO. 1 OF 1 SHEETS	

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS

8333 Douglas Avenue, #820 Dallas, Texas 75225-5816 Fax (214) 361-0204 Phone (214) 361-7900

RONALD V. CONWAY, P.E.
JOHN W. BIRKHOFF, P.E.
JOE R. CARTER, P.E.
GARY C. HENDRICKS, P.E.
PAUL A. CARLINE, P.E.
MATT HICKEY, P.E.

ROSS L. JACOBS, P.E.
I. C. FINKLEA, P.E.

March 20, 2000

Mr. Robin Jones
Town of Addison
Post Office Box 144
Addison, Texas 75001-0144

Re: Engineering Services Agreement
Broadway Pavement Alternatives

Dear Mr. Jones:

In accordance with your request, we propose to furnish engineering services to review various pavement reconstruction alternates along Broadway from Addison Road to the bend in the roadway. Our services will include the following:

1. Field surveys of the topography along Broadway.
2. Layout the various horizontal alignment of the alternates.
3. Formulation of opinions of probable construction cost for each of those alternates.
4. Complete deed research to determine the right of way along Broadway.
5. Provide a letter report along with cost data for each alternative.
6. Provide the topography survey and each of the improvements for each alternate.

We propose to be compensated for our services on the basis of salary cost times a multiplier of 2.3, expenses times 1.15 and field survey crew at \$100.00 per hour. We estimate that this project will require approximately 60 hours to complete and recommend a budget of \$5500.00. If you are in agreement, please have one copy of this letter agreement executed by the Town of Addison and returned to our office. We will commence our services at your direction. We are available at your convenience to discuss any questions you may have with this proposal.

Sincerely,



John W. Birkhoff, P.E.

APPROVED FOR THE TOWN OF ADDISON

By: 

Date: 3/20/2000