

Addison Airport - Obstacle Evaluation
2004

ATTENTION

Oxford

EXHIBIT

NO. 753 1/3

10%



Jim Pierce

From: Jenny Nicewander
Sent: Thursday, December 02, 2004 1:07 PM
To: Jim Pierce
Subject: FW: Latitude and Longitude for Building Heights Survey

These are the Lat Long's you had asked about for the building heights at the Airport. I'll leave the originals you gave me on your desk.

Jenny

-----Original Message-----

From: Alan Moore [mailto:Alan@dal-tech.com]
Sent: Wednesday, December 01, 2004 11:43 AM
To: Jenny Nicewander
Subject: Latitude and Longitude for Building Heights Survey

Jenny,

As requested, attached below is the latitude and longitude information regarding the locations surveyed to obtain building heights of various buildings near the north end of Addison Airport. The file has an alphanumeric identifier that corresponds to the report that I sent to Jim Pierce back in March along with the latitude and longitude. Let me know if you have any questions and I'll be happy to discuss this in more detail.

Thanks,
Alan Moore, R.P.L.S.
DAL-TECH Engineering, Inc.
972-250-2727

<<Latitude and Longitude.txt>>

*Sent to
Rick Compton
12-7-04*

Latitude and Longitude.txt

13,N 32 58 55.7,W 96 50 30.5
5B,N 32 58 51.4,W 96 50 36.3
5A,N 32 58 51.5,W 96 50 36.3
3A,N 32 58 48.9,W 96 50 35.6
3B,N 32 58 48.5,W 96 50 35.6

DAL-TECH
ENGINEERING, INC.

CONSULTING CIVIL ENGINEERS / SURVEYORS
CONSTRUCTION MANAGERS

March 16, 2004

Mr. Jim Pierce, PE
Town of Addison Services Center
16801 Westgrove Road
Addison, Texas 75248

**RE: Building Height Survey Near the Northern End of Addison Airport
Addison, Texas
DTE Job 0411
Invoice 1411**

FOR PROFESSIONAL SURVEYING SERVICES

LUMP SUM FEE	\$ 2,533.00
TOTAL DUE NOW	\$ 2,533.00

All payments are due upon receipt, 1.5% interest per month will be charged after 30 days.

*Obstacle
Evaluation*

*OK to pay
J. Pierce
3-18-04*

F:\0411-Building Height Survey\Invoices\Invoice 1411.doc

17311 DALLAS PKWY. / STE. 200 / DALLAS, TX 75248 / 972-250-2727 / FAX 972-250-4774
222 W. EXCHANGE / FT. WORTH, TX 76106 / 817-626-8777 / FAX 817-626-5777



PUBLIC WORKS DEPARTMENT

(972) 450-2871

Post Office Box 9010 Addison, Texas 75001-9010

16801 Westgrove

March 16, 2004

Mr. Rick Compton
Texas Airports Development Office
ASW-650
2601 Meacham Blvd.
Fort Worth, TX 76137-4298

Re: Addison Airport Secondary Survey

Dear Mr. Compton:

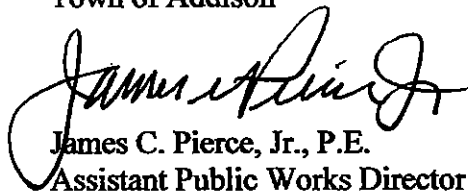
This is to transmit a letter report from Dal-Tech Engineering, Inc. with the results of their secondary survey as per your previous request. The results are all within the three-foot accuracy requirements with the exception of Building 13, which was shown to be out of the required accuracy by 0.49 feet.

The results look very good to me and show a lot of promise.

Please review this information and let us know what the next steps should be.

Very truly yours,

Town of Addison


James C. Pierce, Jr., P.E.
Assistant Public Works Director

cc: Chris Terry, Assistant City Manager
Mark Acevedo, Director, General Services
Bruce Ehly, TxDOT Aviation
Lisa Pyles, Airport Manager
Mike Dmyterko, Coffman Associates

Enclosure

DAL-TECH
ENGINEERING, INC.
 CONSULTING CIVIL ENGINEERS / SURVEYORS
 CONSTRUCTION MANAGERS

March 12, 2004

VIA Hand Delivery

Jim Pierce, P.E.
 Town of Addison Service Center
 16801 Westgrove Road
 Addison, Texas 75248

**RE: Building Height Survey Near the Northern End of Addison Airport,
 Addison, Texas.**

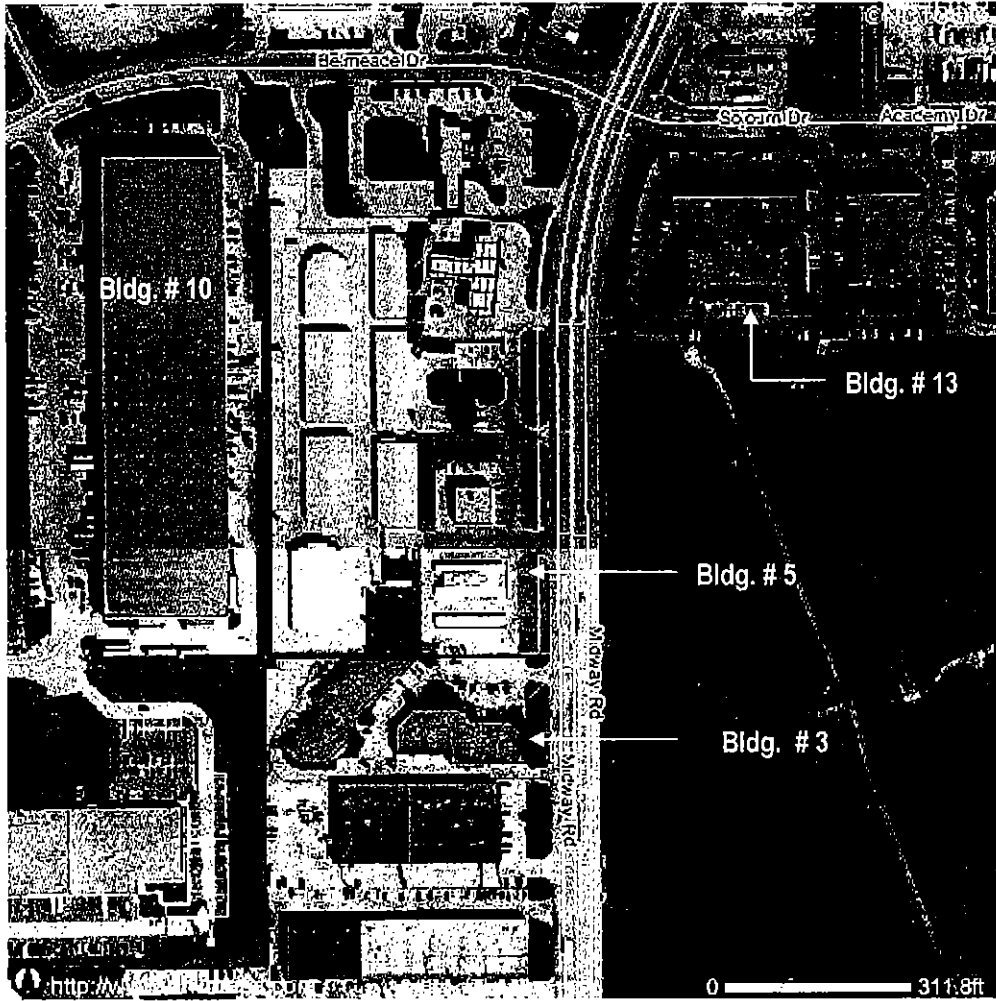
Mr. Pierce:

DAL-TECH Engineering, Inc. has completed our survey of elevations on specific portions of 4 buildings located near the north end of Addison Airport as discussed in our meeting on Friday February 6, 2004 and as indicated on the aerial photographs shown below. These elevations are related to an elevation of 636.46 feet on the north end of the main airport runway as evidenced by a found aluminum disk stamped "Texas Aeronautics Commission - CL". The data listed below shows the elevation of each building at a specific location and meets the accuracy standards listed in "Standards for Aeronautical Surveys and Related Products, FAA No. 405". We obtained elevations for areas of the buildings labeled as "3", "5", "10", and "13" on the attached aerial photographs and they are listed below and shown in more detail below:

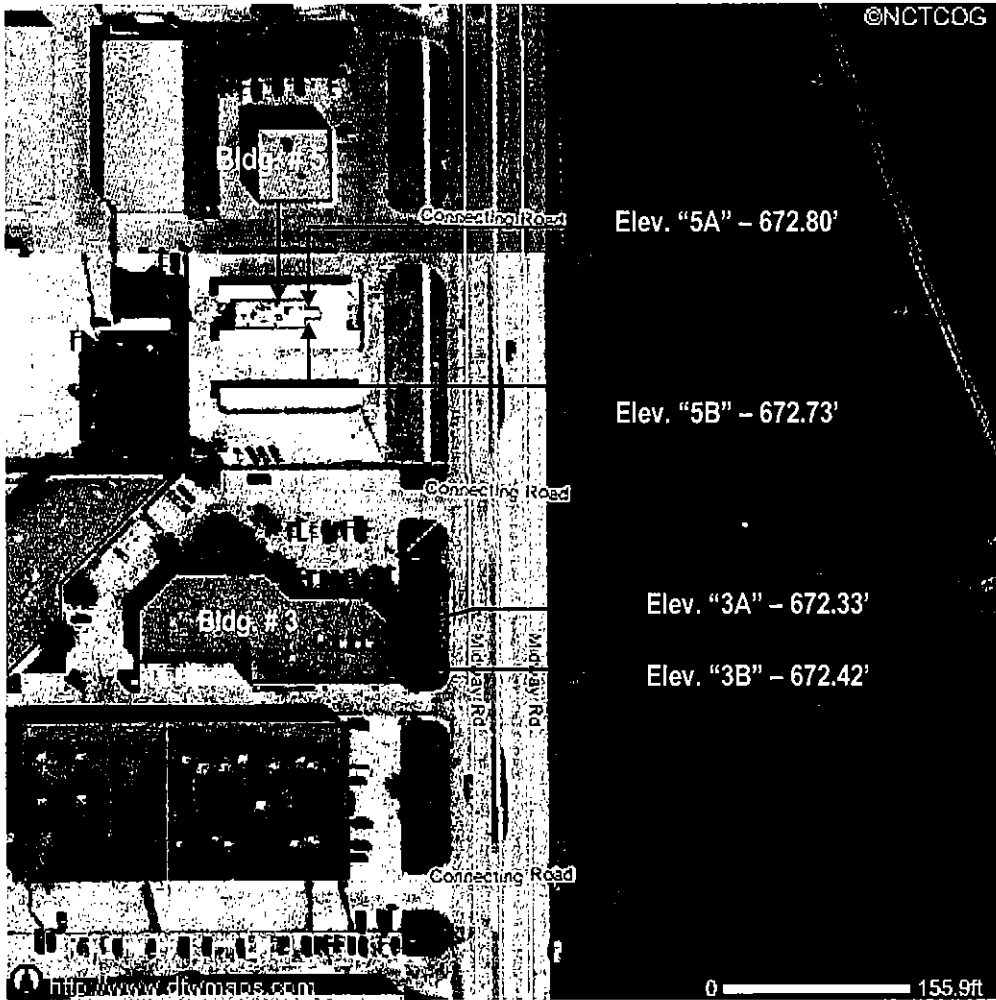
PHOTOGRAPH	BUILDING	BUILDING CORNER	ELEVATION
"A"	3	3A - Northeast Corner	672.33 FEET
"A"	3	3B - Southeast Corner	672.42 FEET
"A"	5	5A - Northeast Corner	672.80 FEET
"A"	5	5B - Southeast Corner	672.73 FEET
"B"	10	10A - Southeast Corner	694.89 FEET
"B"	10	10B - Northeast Corner	694.85 FEET
"C"	13	13 - Southeast Corner	678.81 FEET

Shown on the following page are aerial photographs of the subject areas to aid in correlating the correct identifier to the appropriate building corner or object to assure the correct elevation is attributed to the correct building corner or object.

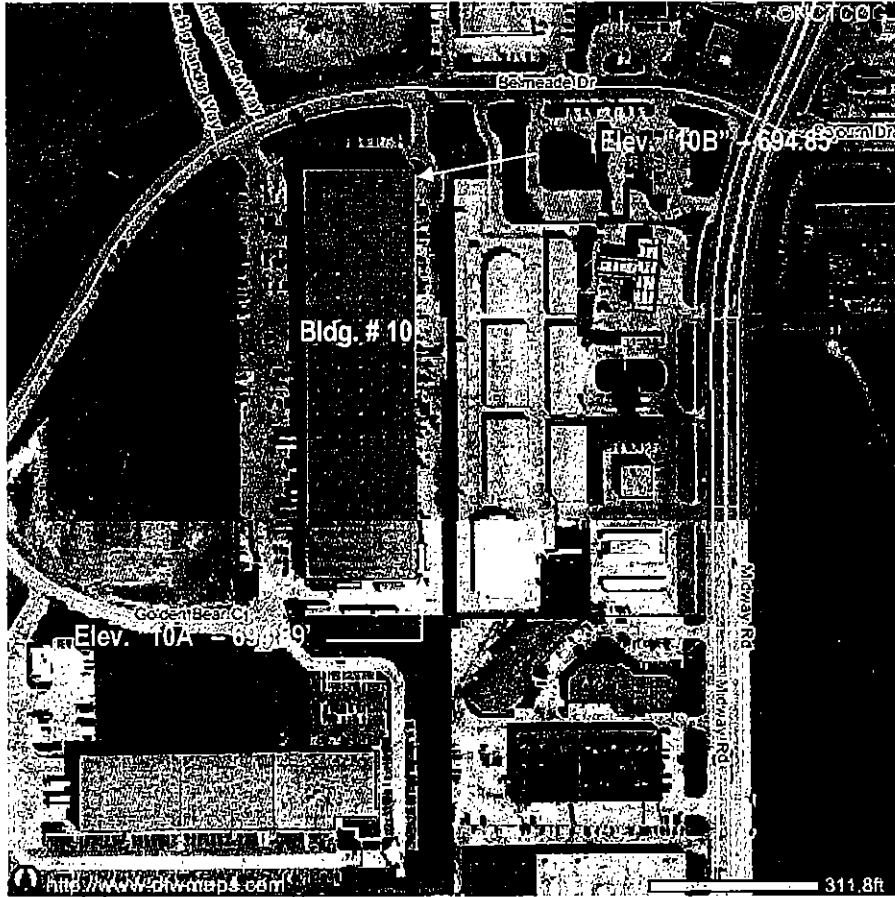
Project Area



Photograph "A"
(Buildings 3, 4, and 5)



Photograph "B"
(Building 10)



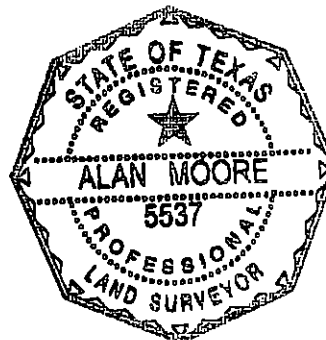
Photograph "C"
(Building 13)



Thank you for the opportunity to be of service to the Town of Addison.

Sincerely,
DAL-TECH Engineering, Inc.

Alan Moore 3/12/04
Alan Moore, R.P.L.S.
Registered Professional Land Surveyor
Texas Number 5537





March 16, 2004

Mr. Rick Compton
Texas Airports Development Office
ASW-650
2601 Meacham Blvd.
Fort Worth, TX 76137-4298

Re: Addison Airport Secondary Su

Dear Mr. Compton:

This is to transmit a letter report from secondary survey as per your previous accuracy requirements with the exception of the required accuracy by 0.49 feet.

The results look very good to me and s

*Jenny Please contact Dal Tech & get a proposal to get the coordinates FAA wants & return all to me
Thanks Jim
11-9-04*

of their
-foot
out of

Please review this information and let us know what the next steps should be.

Very truly yours,

Town of Addison

James C. Pierce, Jr.
James C. Pierce, Jr., P.E.
Assistant Public Works Director

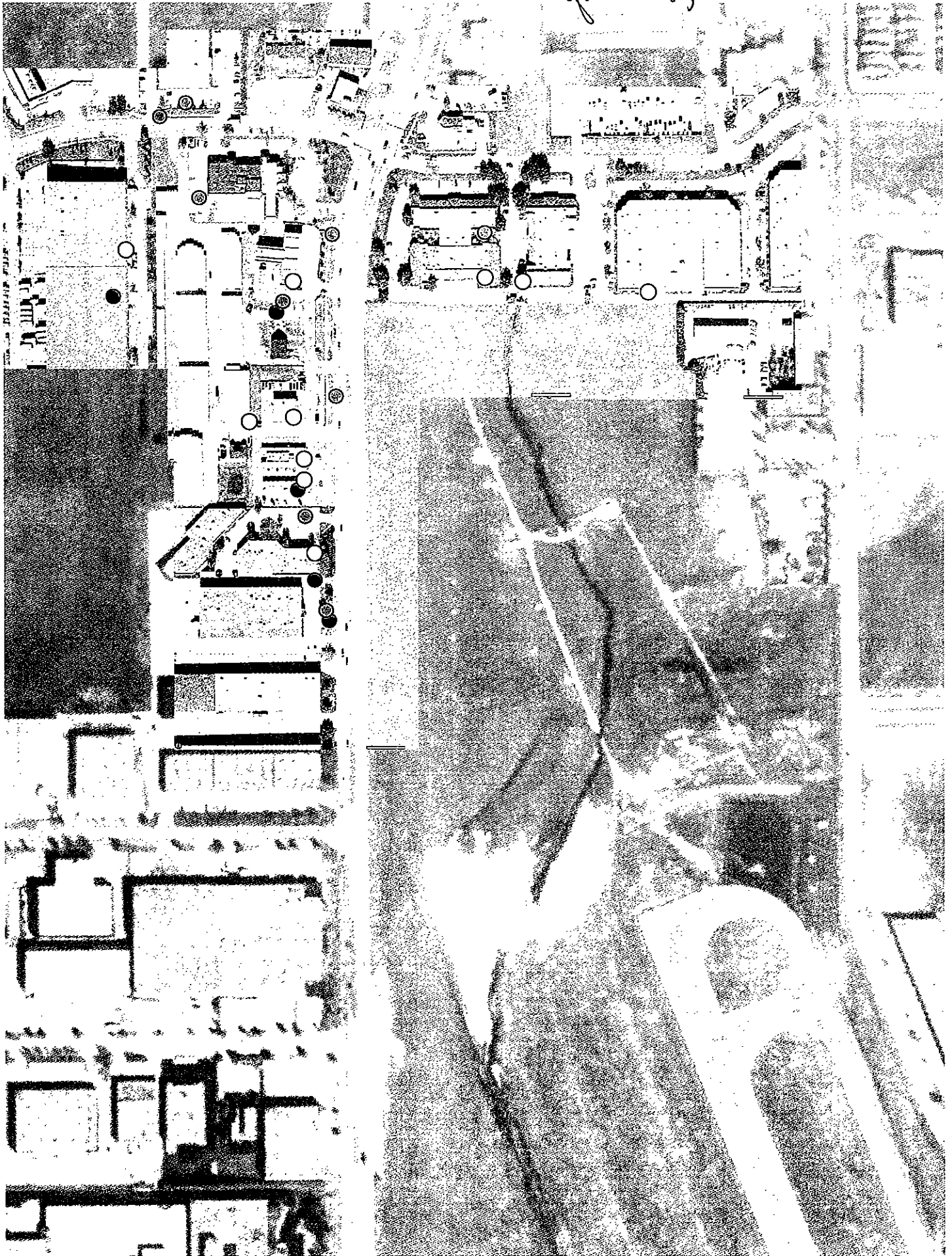
- cc: Chris Terry, Assistant City Manager
- Mark Acevedo, Director, General Services
- Bruce Ehly, TxDOT Aviation
- Lisa Pyles, Airport Manager
- Mike Dmyterko, Coffman Associates

Enclosure

Runway 15 Feasibility Analysis

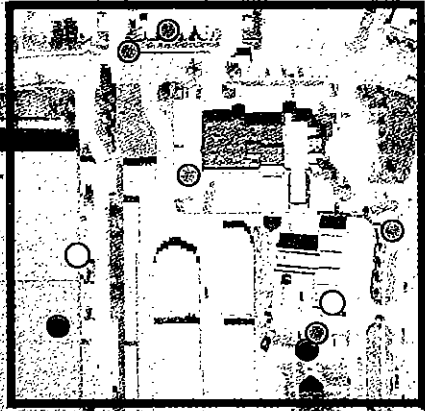
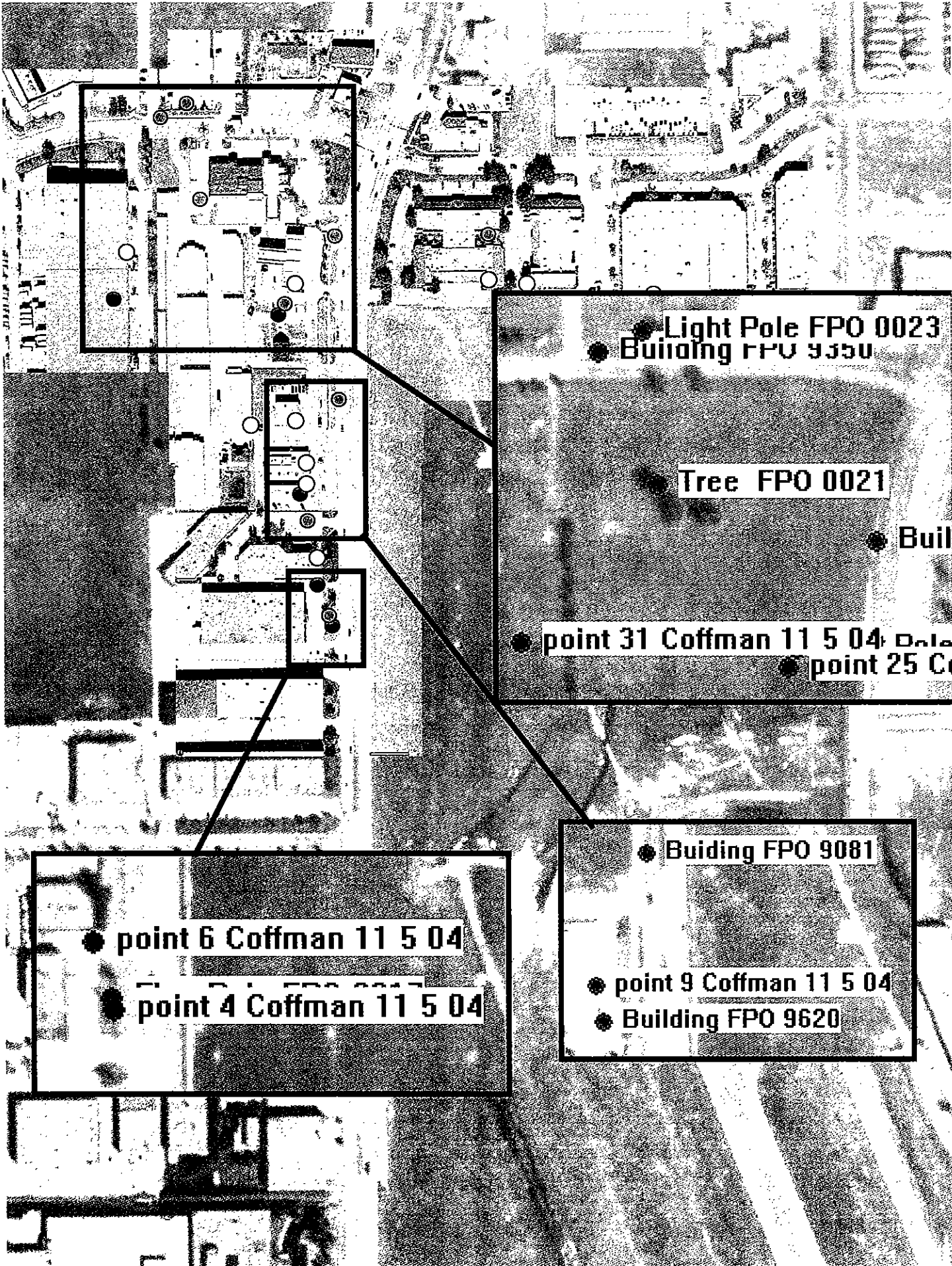
Runway Length Re-Capture

green - Control
by FAA





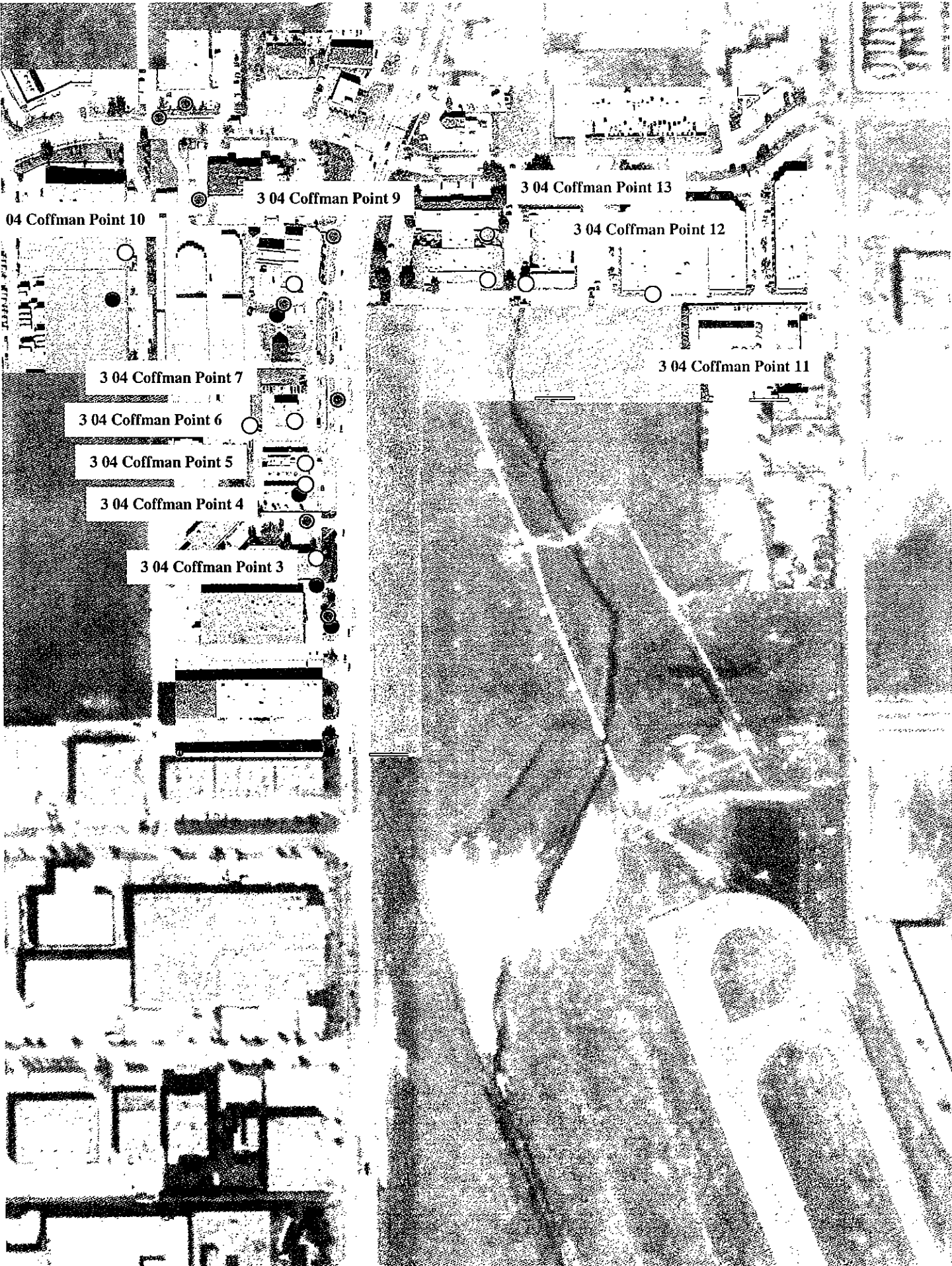
FAA 11 2004 Database
(Controlling Obstructions)
Coffman 3 2004 submission
Coffman 3 2004



- Light Pole FPO 0023
- Building FPO 9350
- Tree FPO 0021
- Buil
- point 31 Coffman 11 5 04 Data
- point 25 Co

- point 6 Coffman 11 5 04
- point 4 Coffman 11 5 04

- Buiding FPO 9081
- point 9 Coffman 11 5 04
- Building FPO 9620



04 Coffman Point 10

3 04 Coffman Point 9

3 04 Coffman Point 13

3 04 Coffman Point 12

3 04 Coffman Point 7

3 04 Coffman Point 11

3 04 Coffman Point 6

3 04 Coffman Point 5

3 04 Coffman Point 4

3 04 Coffman Point 3

● Light Pole FPO 0023
● Building FPO 9350

● Tree FPO 0021

● Building FPO 908 Tree FPO 0019

● Light Pole FPO 0020

● point 31 Coffman 11 5 04
● point 25 Coffman 11 5 04

● Building FPO 9081

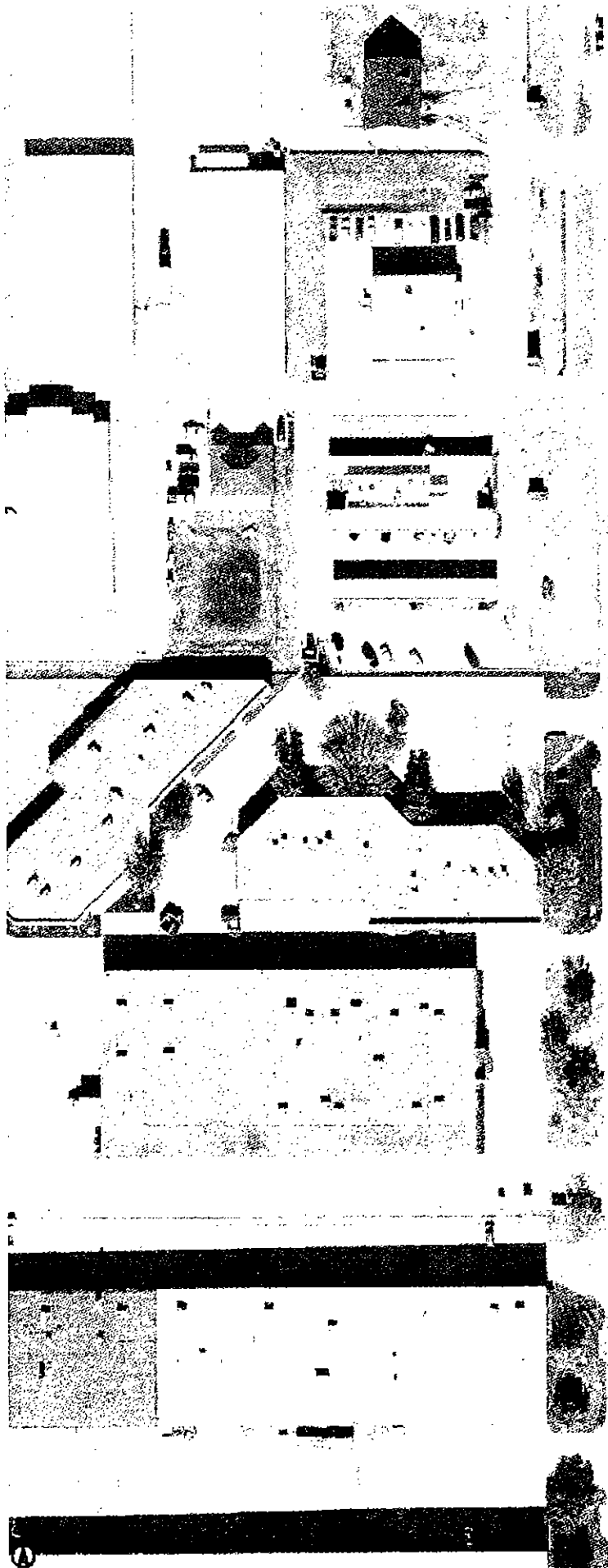
● point 9 Coffman 11 5 04

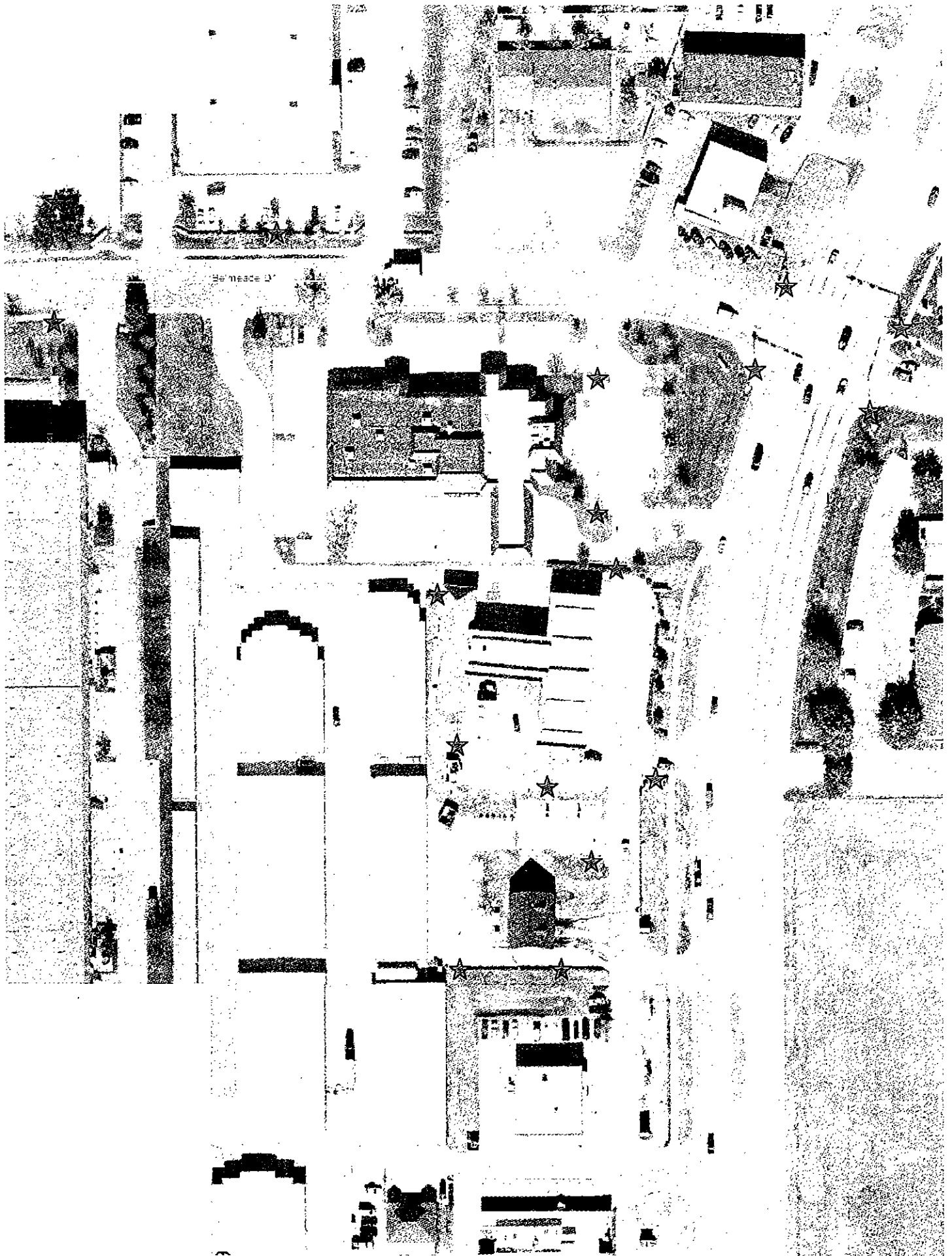
● Building FPO 9620

● point 6 Coffman 11 5 04

● Flag Pole FPO 0017

● point 4 Coffman 11 5 04







DAL-TECH
ENGINEERING, INC.
 CONSULTING CIVIL ENGINEERS / SURVEYORS
 CONSTRUCTION MANAGERS

This report has more information than was requested by FAA.

March 12, 2004

VIA Hand Delivery

Jim Pierce, P.E.
 Town of Addison Service Center
 16801 Westgrove Road
 Addison, Texas 75248

RE: Building Height Survey Near the Northern End of Addison Airport, Addison, Texas.

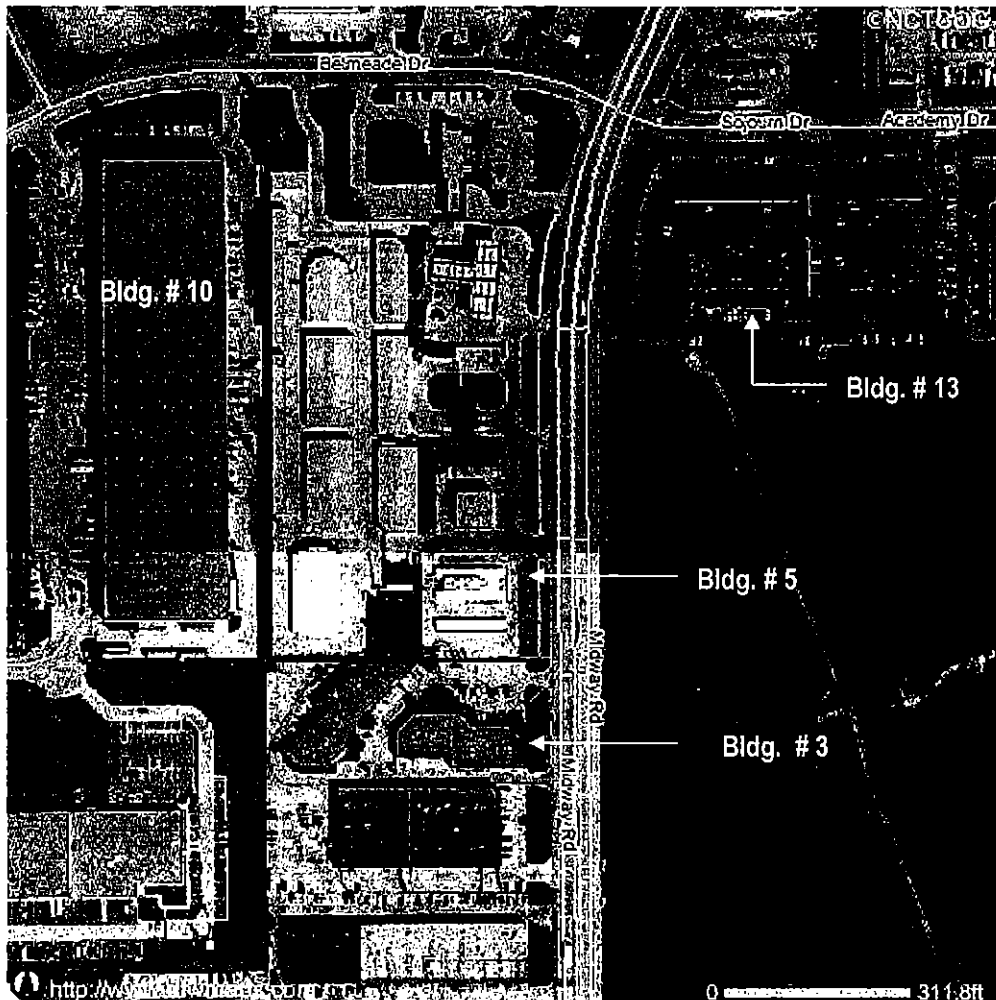
Mr. Pierce:

DAL-TECH Engineering, Inc. has completed our survey of elevations on specific portions of 4 buildings located near the north end of Addison Airport as discussed in our meeting on Friday February 6, 2004 and as indicated on the aerial photographs shown below. These elevations are related to an elevation of 636.46 feet on the north end of the main airport runway as evidenced by a found aluminum disk stamped "Texas Aeronautics Commission - CL". The data listed below shows the elevation of each building at a specific location and meets the accuracy standards listed in "Standards for Aeronautical Surveys and Related Products, FAA No. 405". We obtained elevations for areas of the buildings labeled as "3", "5", "10", and "13" on the attached aerial photographs and they are listed below and shown in more detail below:

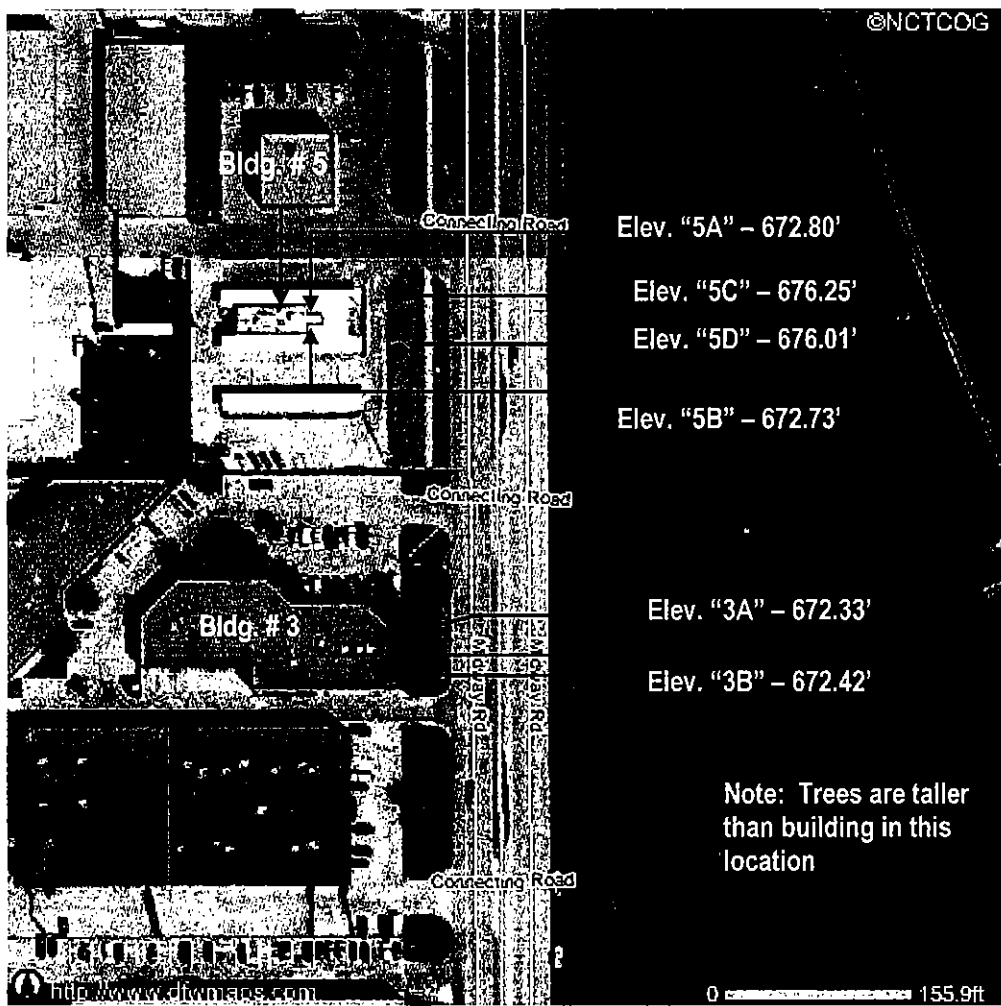
PHOTOGRAPH	BUILDING	BUILDING CORNER	ELEVATION
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"A"	3	3B - Southeast Corner	672.42 FEET
"A"	5	5A - Northeast Corner	672.80 FEET
"A"	5	5B - Southeast Corner	672.73 FEET
"A"	5	5C - North "Straw"	676.25 FEET
"A"	5	5D - South "Straw"	676.01 FEET
"B"	10	10A - Southeast Corner	694.89 FEET
"B"	10	10B - Northeast Corner	694.85 FEET
"C"	13	13A - High Point Near Southwest Corner	678.74 FEET
"C"	13	13B - High Point Near Southeast Corner	678.81 FEET

Shown below are aerial photographs of the subject areas to aid in correlating the correct identifier to the appropriate building corner or object to assure the correct elevation is attributed to the correct building corner or object.

Project Area



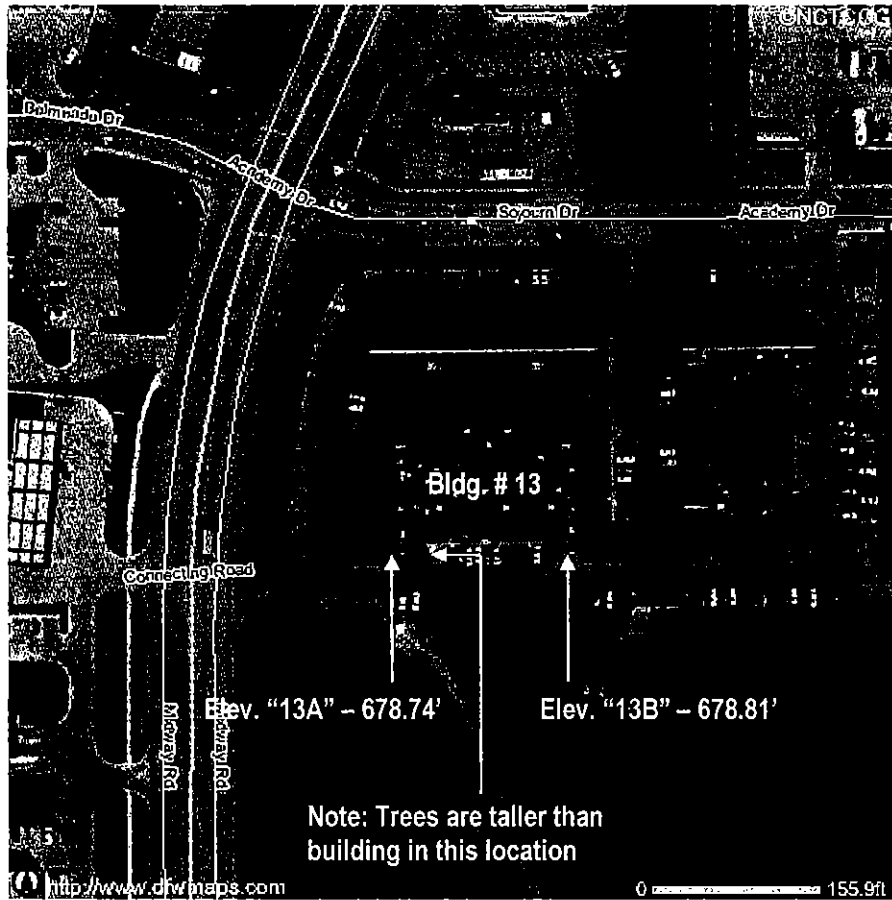
Photograph "A"
(Buildings 3, 4, and 5)



Photograph "B"
(Building 10)



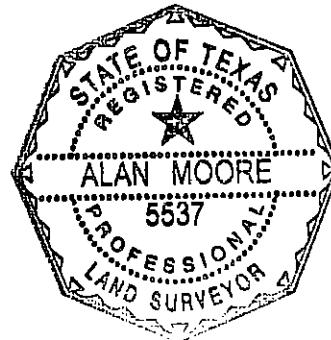
Photograph "C"
(Building 13)



Thank you for the opportunity to be of service to the Town of Addison.

Sincerely,
DAL-TECH Engineering, Inc.

Alan Moore 3/12/04
Alan Moore, R.P.L.S.
Registered Professional Land Surveyor
Texas Number 5537





Public Works / Engineering
 16801 Westgrove • P.O. Box 9010
 Addison, Texas 75001
 Telephone: (972) 450-2871 • Fax: (972) 450-2837

LETTER OF TRANSMITTAL

DATE	2-12-04	JOB NO.
ATTENTION		
RE:	Addison Airport Building	
	Height Survey	

TO Carmen Moran

GENTLEMAN:

WE ARE SENDING YOU

- Attached
- Under separate cover via _____ the following items:
- Shop Drawings
- Prints
- Plans
- Samples
- Specifications
- Copy of letter
- Change order
- _____

COPIES	DATE	NO.	DESCRIPTION
1			Signed Proposal for DAL-TECH Engineering Inc. to perform Building Height Survey near the North End of Addison Airport

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- FOR BIDS DUE _____ 19____
- Approved as submitted
- Approved as noted
- Returned for corrections
- _____
- Resubmit _____ copies for approval
- Submit _____ copies for distribution
- Return _____ corrected prints
- PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO _____

SIGNED: *J. [Signature]*

If enclosures are not as noted, please notify us at once.



Public Works / Engineering
 16801 Westgrove • P.O. Box 9010
 Addison, Texas 75001-9010
 Telephone: (972) 450-2871 • Fax: (972) 450-2837

LETTER OF TRANSMITTAL

DATE	2-12-04	JOB NO.
ATTENTION		
RE:	Addison Airport	
	Building Heights	

TO Alan Moore
DAL-TECH

GENTLEMAN:

WE ARE SENDING YOU

- Attached
- Under separate cover via _____ the following items:
- Shop Drawings
- Prints
- Plans
- Samples
- Specifications
- Copy of letter
- Change order
- _____

COPIES	DATE	NO.	DESCRIPTION
1			Sealed Proposal for Building Height Survey @ N. End of Airport

THESE ARE TRANSMITTED as checked below:

- For approval
- For your use
- As requested
- For review and comment
- FOR BIDS DUE _____ 19____
- Approved as submitted
- Approved as noted
- Returned for corrections
- _____
- Resubmit _____ copies for approval
- Submit _____ copies for distribution
- Return _____ corrected prints
- PRINTS RETURNED AFTER LOAN TO US

REMARKS _____

COPY TO Mark Acvedo
Lisa Pyles

SIGNED: J. Runc

If enclosures are not as noted, please notify us at once.

DAL-TECH ENGINEERING, INC.

CONSULTING CIVIL ENGINEERS / SURVEYORS
CONSTRUCTION MANAGERS

February 11, 2004

VIA FAX (972) 450-2837

Jim Pierce, P.E.
Town of Addison Service Center
16801 Westgrove Road
Addison, Texas 75248

**RE: Building Height Survey Near the Northern End of Addison Airport,
Addison, Texas.**


Mr. Pierce:

DAL-TECH Engineering, Inc. is pleased to submit our fee proposal to perform the necessary services to obtain elevations on specific portions of 4 buildings located near the north end of Addison Airport as discussed in our meeting on Friday February 6, 2004 and as indicated in red on the attached plot labeled "Exhibit A". These elevations will be related to the elevation of the north end of the main airport runway as monumented. Our data will be submitted in the form of a report listing the elevation of each building at the specified location and will meet the accuracy standards listed in "Standards for Aeronautical Surveys and Related Products, FAA No. 405". This proposal includes coordination with Airport Ground Control for access to the north end of the runway. DAL-TECH recommends a lump sum budget of \$2,533.00 for the topographic survey based on the following man-hour costs:

DESCRIPTION	HOURS	RATE	COST
Project Coordinator	4	\$100.00	\$ 400.00
2-Man Survey Crew	16	\$122.00	\$1,952.00
Survey Technician	2	\$ 68.50	\$ 137.00
Secretary/Typist	1	\$ 44.00	\$ 44.00
Reproduction (Lump Sum)			\$ 10.00
TOTAL BUDGET			\$ 2,533.00

We propose to complete these surveying services within 20 working days of your notice to proceed. If you are in agreement with the above fee proposal, please sign in the space provided below and return this acknowledgement to our office. This will serve as our authorization to proceed.

Sincerely,
DAL-TECH Engineering, Inc.



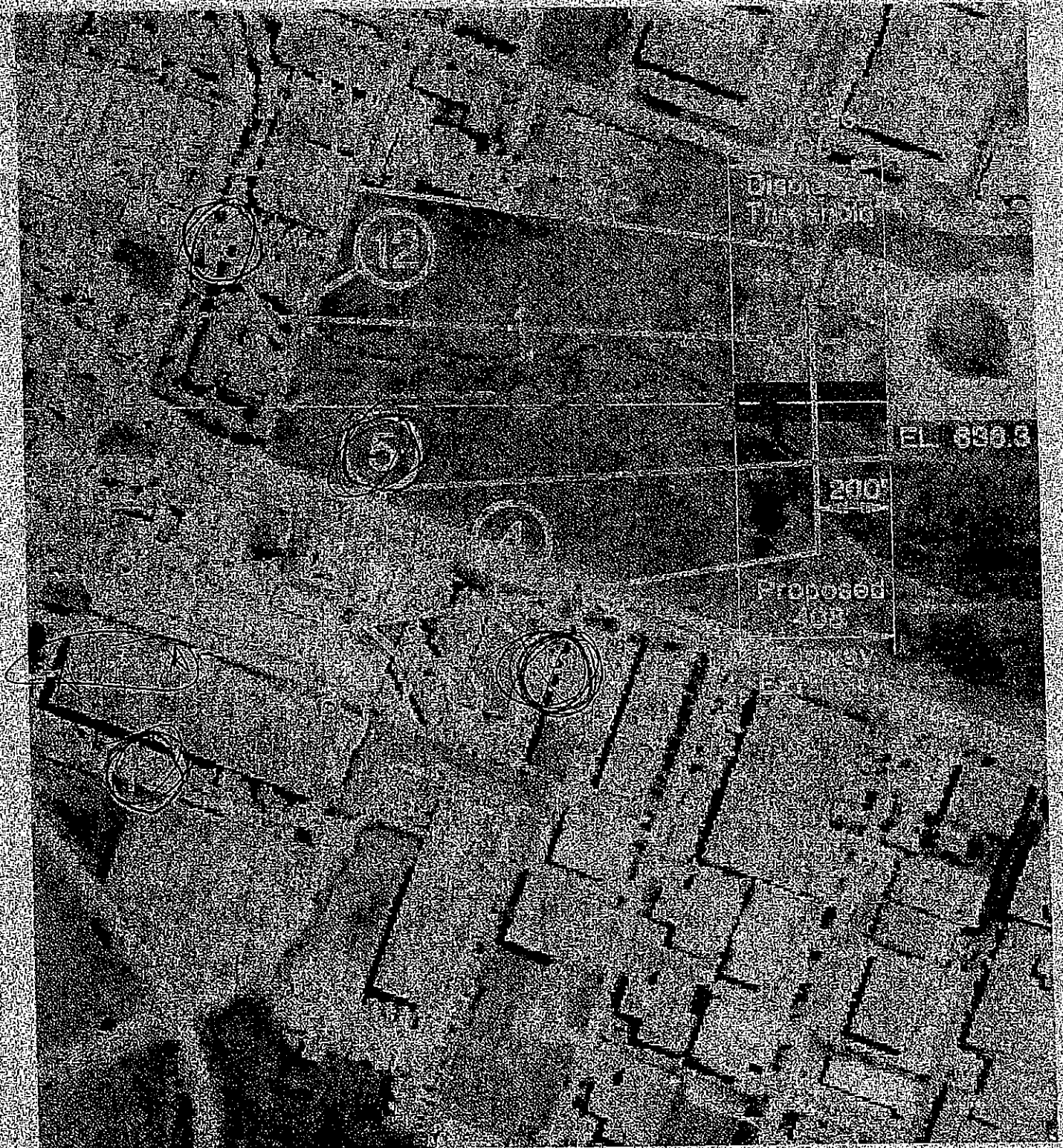
Alan Moore, R.P.L.S.
RAM

Town of Addison

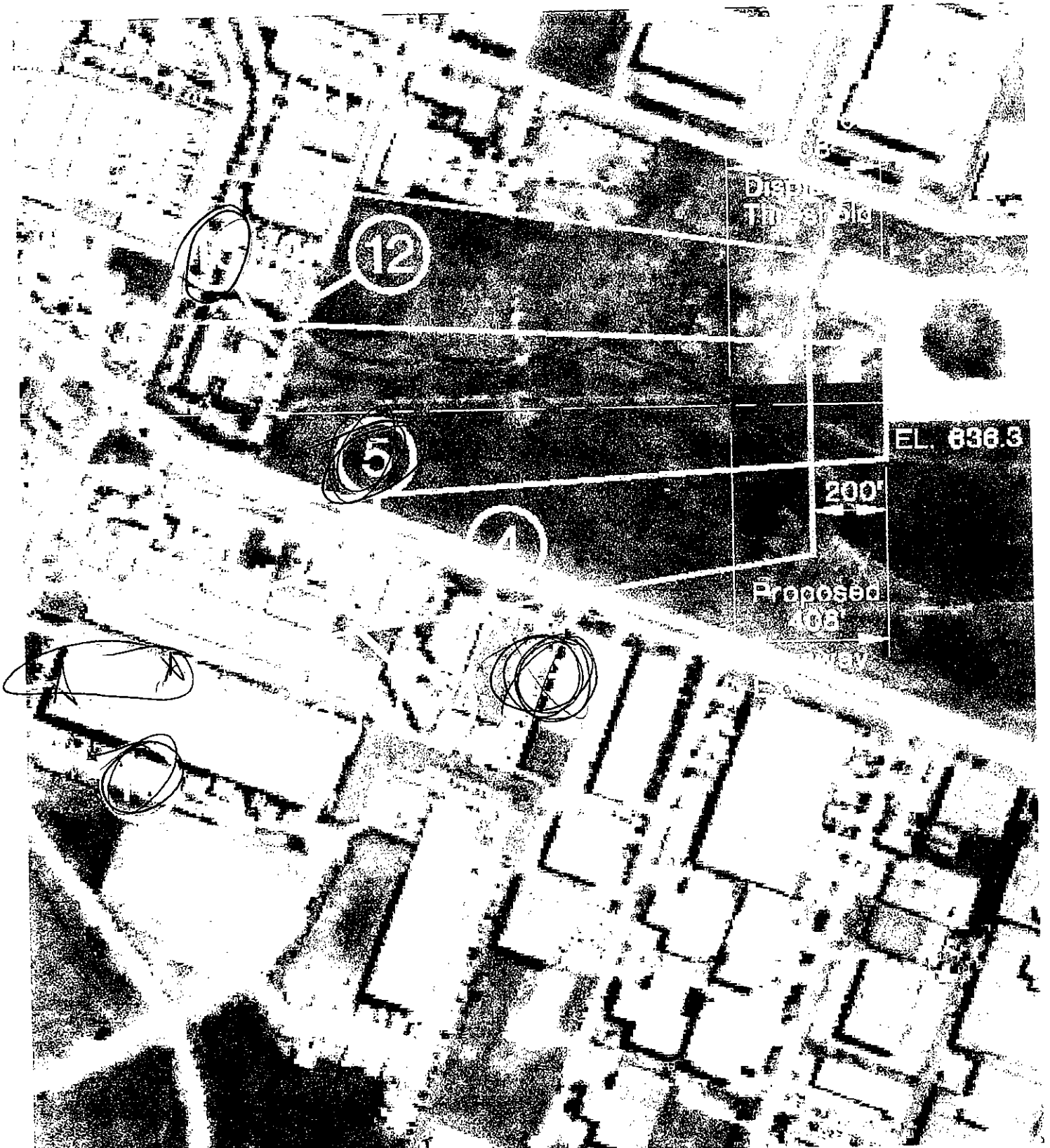
Signature 

2-12-04
Date

Addison Obstruction Secondary Survey



Addison Obstruction Secondary Survey



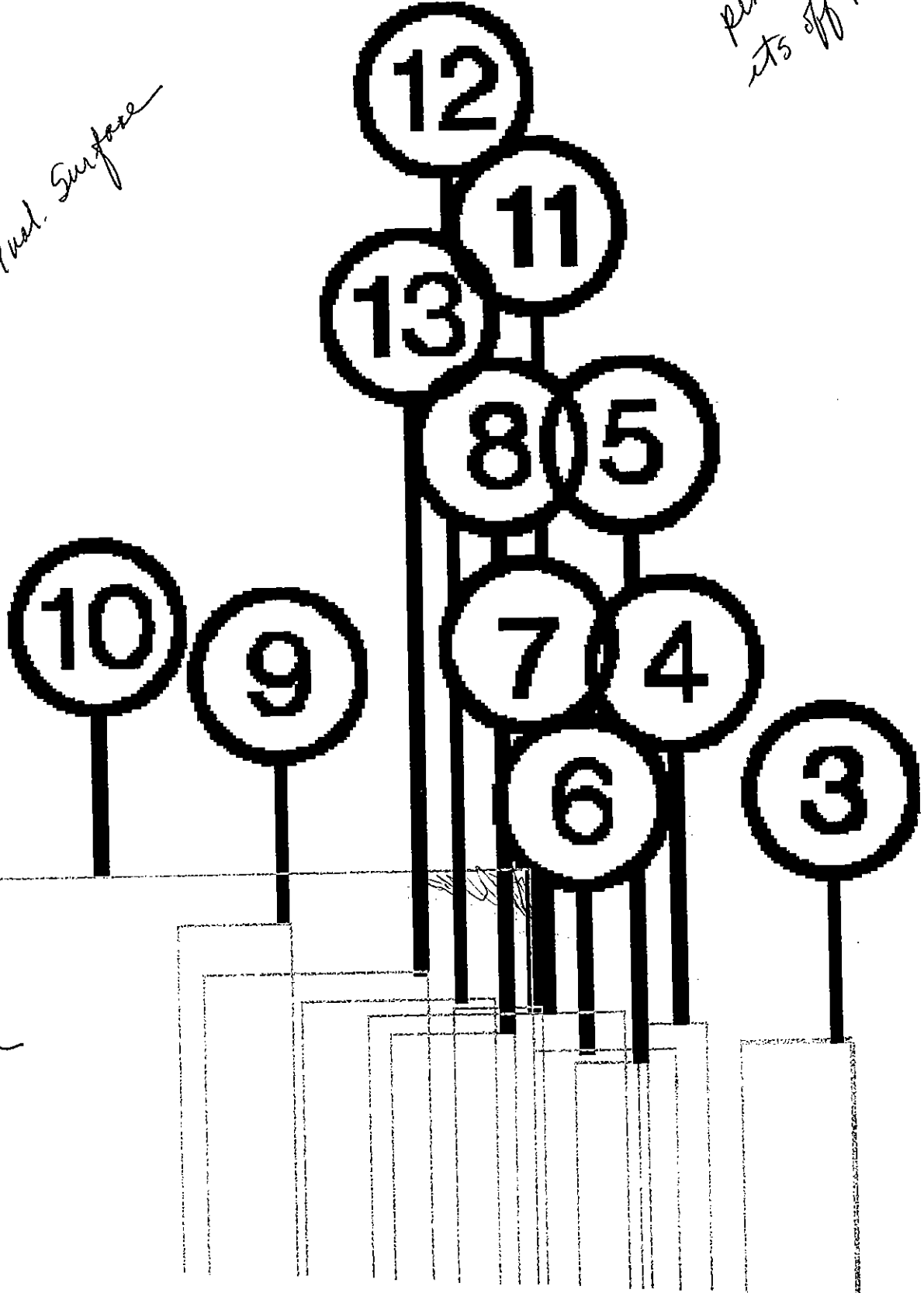
#10 does not
penetrate the GRS -
its off to one side

Full Slope Qual. Surface

GRS

TSS 34:1

Threshold
Siting
Surface



Airport Obstacle Evaluation

2-6-04

Met with Dal Teoh Alan Moore & Wayne Barton

Explained FAA Survey requirements

Loaned FAA 405 document to Alan

Gave him Documents that came from FAA

4 Buildings

#3

#5

#10 (2 locations)

#13

Letter report request with a chart of elevations

Jim Pierce

From: Bruce Ehly [BEHLY@dot.state.tx.us]
Sent: Friday, November 14, 2003 9:50 AM
To: Keith Snodgrass; Rick.Compton@faa.gov
Cc: Jim Pierce; Mark Acevedo; miked@coffmanassociates.com; David Fulton; Linda Howard; Mike.Nicely@faa.gov; lisa.pyles@wgint.com
Subject: Re: Obstruction Surveys

Let's review to-date:

1. Pavement Evaluation: Ed Oshinski met with Town and Fugro reps regarding the pavement evaluation. Bottom line: Fugro will reevaluate their data and issue updated recommendations within the next several weeks. Stay tuned for results.

2. Obstacle Evaluation: I'm glad everyone agreed to your 6 milestones. We must have agreed since you said so! Are we still on milestone #1 where FAA will identify obstacles for further survey? If so, when do you expect these to be identified? We would like to complete the AMP soonest; however, the Pavement & Obstacle Evaluations are addendums to the AMP. We do owe the City a final meeting delineating the recommendations from those two studies.

>>> <Rick.Compton@faa.gov> 11/12/03 10:48AM >>>

Keith,

Addison is a very obstacle rich area. A conventional FAA STD 405 Survey would be cost prohibitive, due to the amount of obstructions required. There was a previous attempt to use LIDAR for the Obstruction Survey, that did not yield satisfactory results. We mutually agreed on another process with built-in checks and balances for data integrity.

The process that we (TxDOT and FAA) agreed to for ADS is as follows;

- 1.) The Stereo Photogrammetric aerial data would be developed and provided to FAA (Airports Division) for initial review.
- 2.) FAA would then identify selected objects to be surveyed, for a second time, but using the conventional FAA STD 405 process for Quality Assurance/Quality Control, to ensure that this new process is as accurate as possible. The Town of Addison will be performing, paying and certifying this limited survey. This data would be provided to TxDOT and the consultant for preprocessing.
- 3.) FAA (Airports) would then review the data and then make recommendations to TxDOT for the final deliverable product.
- 4.) The final product (coming from TxDOT to FAA Airports) will be reviewed for final acceptance.
- 5.) TxDOT, the Town of Addison and the FAA would then get together to

12-4-03 -
← Bruce Ehly thinks
we are on
step 2

discuss what options the Town of Addison wanted to pursue, as they would be the ones mitigating the obstructions.

6.) Once a final plan for Addison is developed, FAA Airports would then go to the Flight Procedures Office (FPO) to evaluate how much of the Runway 15 could be recovered, if any.

In reference to Lancaster, we have followed up on the status and advised them of the impacts to the communities involved. This will most likely take a while to resolve.

I know this SURVEY stuff is all over the boards and frustrating, but we are making some progress in making changes for the better. Hang in there!

I hope this helps,

Rick

"Keith Snodgrass"

Compton/ASW/FAA@FAA

<KSNODGR@dot.stat

To: Rick

e.tx.us>

cc:

<miked@coffmanassociates.com>, "Bruce Ehly" <BEHLY@dot.state.tx.us>, "David

Fulton"

<DFULTON@dot.state.tx.us>, "Linda Howard" <LHOWARD@dot.state.tx.us>, Mike

11/10/2003 11:36

Nicely/ASW/FAA@FAA

AM

Subject: Obstruction

Surveys

Could you explain why the Addison data is "unofficial?" We have all been operating under the belief what you were provided was all that would be required - an obstruction survey as described in Appendix 16. If Airports has not received the "draft" where is it? What do we need to do??

I have been asking for months now about the obstruction survey for Lancaster, and have not gotten ANY information back from anyone. You folks are telling us we have to do these, but you are not providing any guidance or information at all! Our consultants and sponsors are getting

Jim Pierce

From: Jim Pierce
Sent: Thursday, November 13, 2003 5:49 PM
To: 'Bruce Ehly'; lisa.pyles@wgint.com
Cc: Mark Acevedo
Subject: RE: Re: Obstruction Surveys

Bruce: I have looked thru my file and I noted during the 6/3/03 "Planning Meeting" that "2 weeks would be needed to QA/QC the Obstacle Evaluation". This implies some field survey work would need to be done. Other than that, I don't remember either way. If there was any agreement I assume it would be the result of verbal discussions. I would seem logical to me to do some field checking of the obstacle analysis results

Jim Pierce, P.E.
Assistant Public Works Director
P.O. Box 9010
Addison, TX 75001-9010
972-450-2879

-----Original Message-----

From: Bruce Ehly [mailto:BEHLY@dot.state.tx.us]
Sent: Thursday, November 13, 2003 9:32 AM
To: Jim Pierce; lisa.pyles@wgint.com
Subject: Fwd: Re: Obstruction Surveys

Do either of you have any knowledge of the agreements Rick discussed?
Specifically, the requirement for a ground survey for selected points.

Jim Pierce

From: Lisa Pyles [lisa.pyles@wgint.com]
Sent: Thursday, November 13, 2003 9:50 AM
To: Bruce Ehly; Jim Pierce
Subject: RE: Re: Obstruction Surveys

I remember that there were multiple tracks for these conversations when we were trying to figure out what was the best way to proceed. I do remember that there was some discussion that after the Stereo Photogrammetric aerial data was developed that a conventional survey would be done to determine exactly where they were. I believe the thought was that this method is so new and not tested that we needed something that would confirm the findings. I do not remember if the discussions went any further as to the way these surveys would be funded, but I do remember that Rick said that the Town could contract with any survey firm that they felt comfortable with. I think he indicated that the FAA would not pay for it. I hope this helps.

Lisa A. Pyles
Addison Airport
972 392 4855
Fax 972 788 9334

-----Original Message-----

From: Bruce Ehly [mailto:BEHLY@dot.state.tx.us]
Sent: Thursday, November 13, 2003 9:32 AM
To: jpierce@ci.addison.tx.us; lisa.pyles@wgint.com
Subject: Fwd: Re: Obstruction Surveys

Do either of you have any knowledge of the agreements Rick discussed?
Specifically, the requirement for a ground survey for selected points.

Jim Pierce

From: Rick.Compton@faa.gov
Sent: Wednesday, November 12, 2003 10:49 AM
To: Keith Snodgrass
Cc: Bruce Ehly; David Fulton; Linda Howard; Mike.Nicely@faa.gov; miked@coffmanassociates.com
Subject: Re: Obstruction Surveys
Importance: High

Keith,

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I hope this helps,

Rick

"Keith Snodgrass"
<KSNODGR@dot.stat

To: Rick Compton/ASW/FAA@FAA

Jim Pierce

From: Keith Snodgrass [KSNODGR@dot.state.tx.us]
Sent: Wednesday, October 29, 2003 1:14 PM
To: Jim Pierce; jmharris@coffmanassociates.com; miked@coffmanassociates.com; Bruce Ehly; Rick.Compton@faa.gov; lisa.pyles@wgint.com
Subject: Re: Fwd: ADS PDF's

I sent the drawings to FAA's Al Mastello to get his opinion about the threshold moves' effect on approaches. I am hardly a TERPS expert, but it looks to me like it would work if we can obstruction light all the penetrations to the TSS and approach surfaces on each end. This really needs to be an FAA call, though.

I am most uncertain about the departure surfaces, but they would be the same as they already are, no matter where the thresholds are.

As soon as I hear something from Al I will pass that along. I will be in London next week, so it will probably be after Nov. 12th before I can send something.

Keith Snodgrass
Aviation Division
Texas Department of Transportation

512 416-4555

Jim Pierce

From: Mike Dmyterko [miked@coffmanassociates.com]
Sent: Tuesday, October 28, 2003 3:05 PM
To: jmharris@coffmanassociates.com; Rick.Compton@faa.gov; Bruce Ehly; lisa.pyles@wgint.com; Keith Snodgrass; Jim Pierce
Subject: Fwd: ADS PDF's (in computer)

Attached are .pdf files resulting in the airspace analysis to date. Of note, relocating the north threshold to the existing pavement edge would result in 13 buildings obstructing the Threshold Siting Surface (TSS). The TERPS Glideslope Qualification Surface (GQS), however, is not penetrated. Thoughts? Questions?

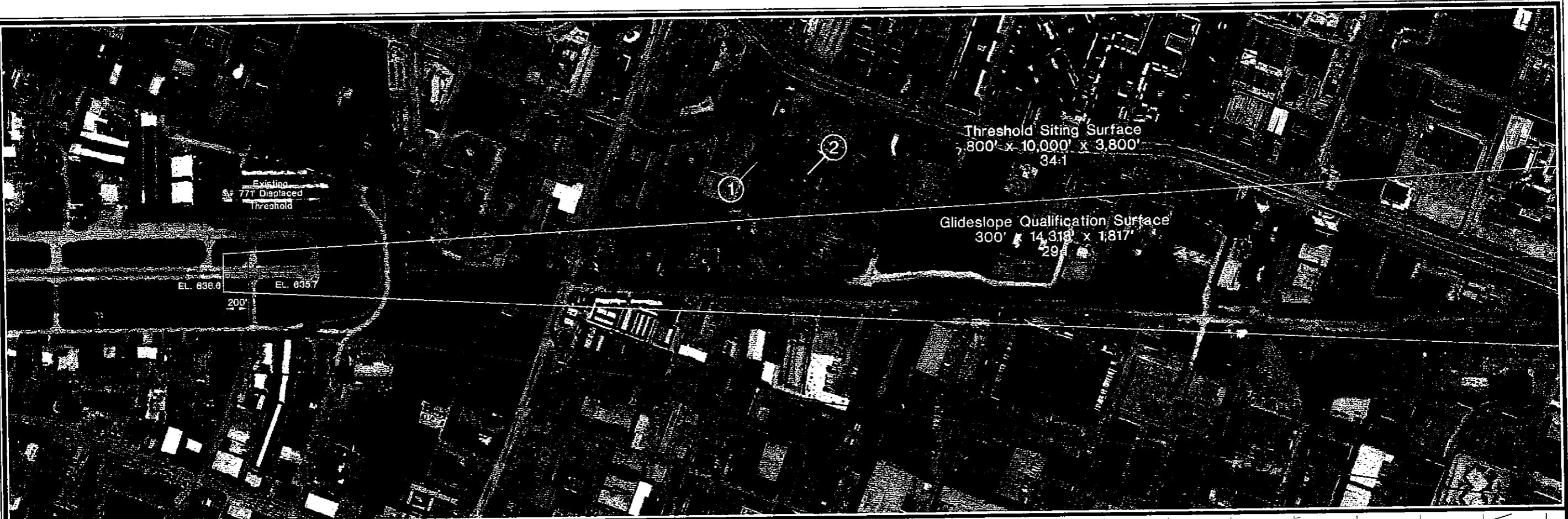
Delivered-To: miked@coffmanassociates.com
X-Sender: rlally.coffmanassociates.com@pop.coffmanassociates.com
X-Mailer: QUALCOMM Windows Eudora Version 5.1.1
Date: Tue, 28 Oct 2003 14:29:39 -0600
To: Mike Dmyterko <miked@coffmanassociates.com>
From: Richard Lally <rlally@coffmanassociates.com>
Subject: ADS PDF's

Mike,

Here is a zip file that contains the two PDF files of Addison Threshold Siting and Glideslope Qualification Surfaces.

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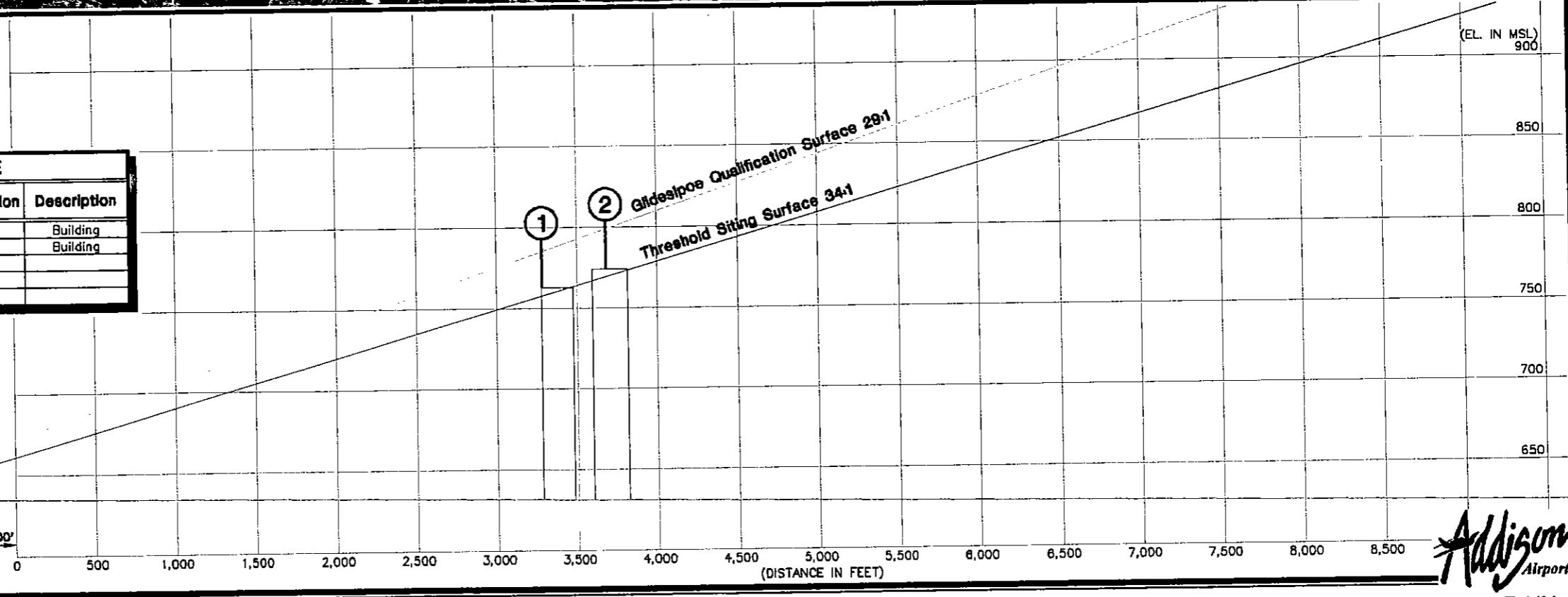


GLIDESLOPE QUALIFICATION SURFACE

No.	Object Elevation	Surface Elevation	Penetration	Description
None				

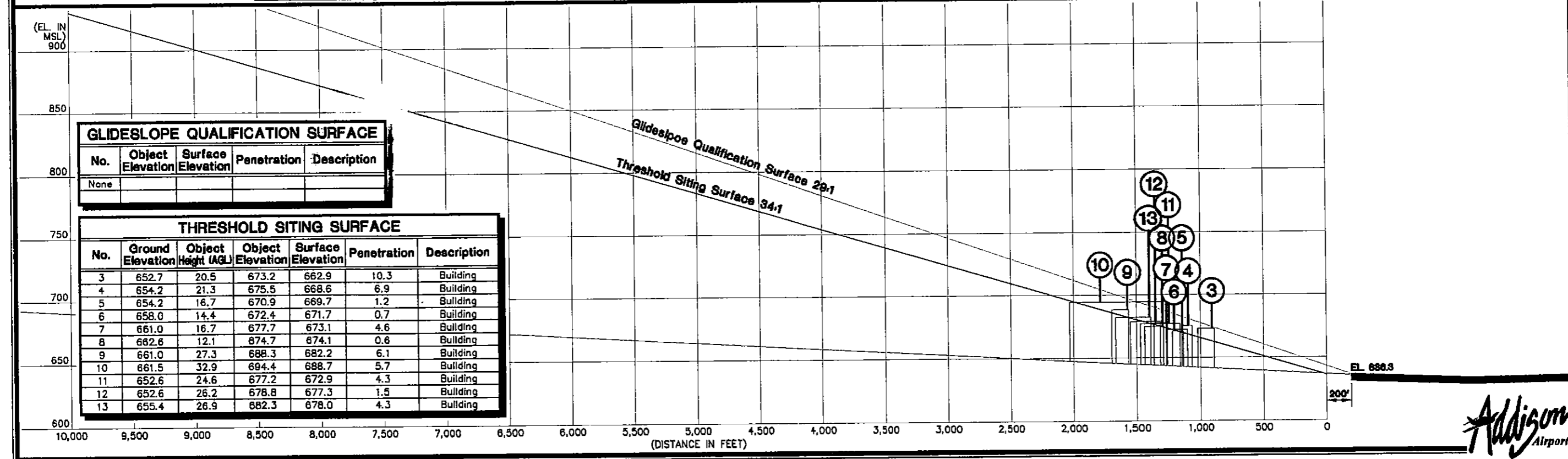
THRESHOLD SITING SURFACE

No.	Ground Elevation	Object Height (AGL)	Object Elevation	Surface Elevation	Penetration	Description
1	645.1	117.9	763.0	758.8	4.2	Building
2	643.6	130.6	774.2	769.7	4.5	Building



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Draft: 01MPT15-38-10/24/03



GLIDESLOPE QUALIFICATION SURFACE				
No.	Object Elevation	Surface Elevation	Penetration	Description
None				

THRESHOLD SITING SURFACE						
No.	Ground Elevation	Object Height (AGL)	Object Elevation	Surface Elevation	Penetration	Description
3	652.7	20.5	673.2	662.9	10.3	Building
4	654.2	21.3	675.5	668.6	6.9	Building
5	654.2	16.7	670.9	669.7	1.2	Building
6	658.0	14.4	672.4	671.7	0.7	Building
7	661.0	16.7	677.7	673.1	4.6	Building
8	662.6	12.1	674.7	674.1	0.6	Building
9	661.0	27.3	688.3	682.2	6.1	Building
10	661.5	32.9	694.4	688.7	5.7	Building
11	652.6	24.6	677.2	672.9	4.3	Building
12	652.6	26.2	678.8	677.3	1.5	Building
13	655.4	26.9	682.3	678.0	4.3	Building

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Exhibit #
RUNWAY 15 SITING SURFACES

10-28-03