N 15/D3

4 PLANS

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

May 30, 1986

Robert Molina
Greiner Engineering
2601 Wyoming Blvd., NE
Albuquerque, New Mexico 87112

RE: REVISED DRAINAGE PLAN SUBMITTAL OF AIRPORT MAINTENANCE FACILITY RECEIVED MAY 28, 1986 FOR BUILDING PERMIT APPROVAL (N-15/D3)

Dear Robert:

The above referenced submittal, revised May 22, 1986, is approved, but before Building Permit sign-off by Hydrology, the street grades of access road are still required for review by this office.

If you have any questions, call me at 766-7644.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

cc: Bob Gill, Aviation Dept.

RAG/bsj

8000 Pennsylvania Circle NE Albuquerque, New Mexico 87110 Telephone 505•265-3645

THE BURNS•PETERS GROUP, P.A.

Date: 5/28/86

RECEIVED
MAY 28 1986
HYDROLOGY SECTION

ATTN: Roger Green
City Hydrology

PROJECT: (name, address) Airport Maintenance Facility

City Project No. 2869

PROJECT NO: 8525-23

the burns group P.A. Architects & Planners

If checked below, please:
( ) Acknowledge receipt of enclosures.
( ) Return enclosures to us.

We Transmit the Following:

Copies	Description
1 blueprint	Grading & Drainage Plan

If enclosures are not as noted, please inform us immediately.

Remarks:

For your use

Copies to:

By TERESITA BLOCA

William L. Burns, AIA • Ronald L. Peters, AIA • Donald F. Fletcher, AIA • Jack R. Alley, AIA • Roger Easley

Greiner

Greiner Engineering Sciences, Inc.
2601 Wyoming Boulevard, N.E.
Albuquerque, New Mexico 87112
(505) 292-1936

A Greiner Engineering, Inc. Company

May 21, 1986

RECEIVED
MAY 22 1986
HYDROLOGY SECTION

N-15/D3

Mr. Joe D. Luehring
Engineering Division
City of Albuquerque
P. O. Box 1293
Albuquerque, New Mexico 87103

RE: AIA Master Plan Improvements - Maintenance Facility

Dear Joe:

Grading revisions on the referenced drawing per the DRC comments of May 12, 1986 and your telephone conversation of May 13, 1986 with Robert Molina.

The issues of concern are as follows: establishing the north drainage swale flowline at 10' from the north fenceline and not 4' as discussed at the DRC meeting since undermining the fence would occur from erosion and the elimination of most of the middle drainage swale parallel to the south side of the maintenance building.

By relocating the north and eliminating most of the middle drainage swale the grades perpendicular to the proposed building have been rduced substantially.

If your department plans to lower the designed finish floor elevation of 5310.00 due to the flattening of the sanitary sewer line grades and elevations, the elevations of the asphalt surface as designed will need to be modified. All other elevations as shown on the graveled surface area will be okay.

Should you have any questions, call Robert Molina or me at 292-1936.

Sincerely,

GREINER ENGINEERING

Mark Holstad, P.E.
Project Manager

MSH:RM:kw

cc: Roger Green, City Hydrology
Charlie Otero, Burns/Peters Group
Bob Gill, City Aviation

Job No. 0690570

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

April 25, 1986

Robert Molina
Greiner Engineering
2601 Wyoming Blvd., NE
Albuquerque, New Mexico 87112

RE: DRAINAGE PLAN SUBMITTAL OF AIRPORT MAINTENANCE FACILITY BUILDING RECEIVED APRIL 23, 1986 FOR BUILDING PERMIT APPROVAL (N-15/DI)

Dear Robert:

The above referenced submittal dated April 23, 1986, is approved, but Building Permit sign-off by Hydrology is not approved until street grades of access road are provided to this office by the City Aviation Department.

If you have any questions, call me at 766-7644.

Cordially,

Roger A. Green, PE

Roger A. Green, P.E.
C.E./Hydrology Section

cc: Bob Gill
City Aviation Department

RAG/bsj

Greiner

Greiner Engineering Sciences, Inc.
2601 Wyoming Boulevard, N.E.
Albuquerque, New Mexico 87112
(505) 292-1936

A Greiner Engineering, Inc. Company

April 23, 1986

RECEIVED
APR 23 1986
HYDROLOGY SECTION

Roger A. Green
Design Hydrology Section
City of Albuquerque
123 Central Ave., N.W.
Albuquerque, New Mexico 87112

RE: Drainage & Grading Plan Submittal of Airport Maintenance Facility Building for Building Permit Approval, N-15/D3

Dear Roger:

I have revised the above referenced plan per your letter dated April 15, 1986 and per our telephone conversation of April 21, 1986. The major difference that you will notice are my drainage calculations. The calculations as shown are per the "Notice of Emergency Rule". the retention volumes as required utilizing the SCS method are approximately 45% less than what was previously shown. Therefore, the pond bottoms and water surface elevations were raised accordingly per the recalculations.

Fencing requirements around the ponds have been waivered per the DRC. The reason for the waiver is that proposed site is located in a remote area and only employees of the aviation department will be allowed access to the area.

Should you have any questions, do not hesitate to call me.

Sincerely,

GREINER ENGINEERING

Robert Molina
Project Engineer

Approved by:

Mark S. Holstad, P.E.
Senior Civil Engineer

RM:kg

cc: Bob Gill, City Aviation
Charlie Otero, Burns/Peters Group

Job No. 0690570

DRAINAGE INFORMATION SHEET

PROJECT TITLE: Airport Maintenance Facility Bldg ZONE ATLAS/DRNG. FILE #: N-15/D3
LEGAL DESCRIPTION: A Tract of Land Situate Within Sec. 4, T9N-R3E
CITY ADDRESS:

ENGINEERING FIRM: Greiner Engineering — CONTACT: Robert Molina
ADDRESS: 2601 Wyoming Blvd. NE — PHONE: 2921936
OWNER: City of Albuquerque — CONTACT: Bob Gill
ADDRESS: Aviation Dept. — PHONE: 8424366
ARCHITECT: Burns/Peters — CONTACT: Charlie Otero
ADDRESS: 8000 Pennsylvania Circle NE — PHONE: 2653645
SURVEYOR: Greiner Engineering — CONTACT: Lisa Windborg
ADDRESS: 2601 Wyoming Blvd. NE — PHONE: 2921936
CONTRACTOR: — CONTACT:
ADDRESS: — PHONE:

RECEIVED
APR 23 1986
HYDROLOGY SECTION

PRE-DESIGN MEETING:
✓ YES
___ NO
✓ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. ___
EPC NO. E-1449-1
PROJ. NO. 2869

TYPE OF SUBMITTAL:
___ DRAINAGE REPORT
___ DRAINAGE PLAN
✓ ~~CONCEPTUAL~~ GRADING & DRAINAGE PLAN
___ GRADING PLAN
___ EROSION CONTROL PLAN
___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:
___ SKETCH PLAT APPROVAL
___ PRELIMINARY PLAT APPROVAL
___ SITE DEVELOPMENT PLAN APPROVAL
___ FINAL PLAT APPROVAL
✓ BUILDING PERMIT APPROVAL
___ FOUNDATION PERMIT APPROVAL
___ CERTIFICATE OF OCCUPANCY APPROVAL
___ ROUGH GRADING PERMIT APPROVAL
___ GRADING/PAVING PERMIT APPROVAL
___ OTHER ___ (SPECIFY)

DATE SUBMITTED: 4-23-86
BY: Robert Molina

FILE COPY

City of Albuquerque

P.O. BOX 1293 ALBUQUERQUE, NEW MEXICO 87103

DESIGN HYDROLOGY SECTION
123 Central NW, Albuquerque, NM 87102
(505) 766-7644

April 16, 1986

Robert Molina
Greiner Engineering
2601 Wyoming Blvd., NE
Albuquerque, New Mexico 87112

RE: DRAINAGE PLAN SUBMITTAL OF AIRPORT MAINTENANCE FACILITY BUILDING RECEIVED APRIL 4, 1986 FOR BUILDING PERMIT APPROVAL (N-15/D3)

Dear Robert:

I have reviewed the above referenced submittal and have the following comments to be addressed before approval for Building Permit.

1. General Note No. 4 should state that retention ponds will be removed if future outfall system allows free discharge, otherwise detention ponds will be required.

2. Drawings must show the required paved access road, with design elevations, extending to existing paved road.

3. The Rational Formula is not recognized as a method for calculating runoff volumes (See Notice of Emergency Rule dated January 14, 1986, revising Chapter 22 of DPM).

4. Retention ponds for drainage basins A & B do not have spillways to limit depths to 1.5' as required unless fencing is required. I suggest that the graded swales through basins A & B be

raised to a flatter slope in order to raise the elevations of the retention ponds. Also, the west end of project site could be utilized as ponding area. The intent is to have the design 100 year volume elevation near the existing ground elevations so any runoff volumes in excess of the 100 year will spill out of retention ponds.

5. The Engineer's stamp and signature should have a date shown on it.

If you have any questions, call me at 766-7644.

Cordially,

Roger A Green, PE

Roger A. Green, P.E.
C.E./Hydrology

Standard letter to:

Bob Gill, City Aviation Dept.

RAG/bsj

RECEIVED
APR 04 1986
HYDROLOGY SECTION

DRAINAGE INFORMATION SHEET

PROJECT TITLE: ~~Airport Maintenance Facility Bldg~~ ZONE ATLAS/DRNG. FILE #: N-15 D3

LEGAL DESCRIPTION: A Tract of Land Situate Within Sec. 4, T-9-N, R-3-E

CITY ADDRESS: _____

ENGINEERING FIRM: Greiner Engineering — CONTACT: Robert Molina

ADDRESS: 2601 Wyoming Blvd. NE — PHONE: 292-1936

OWNER: City of Albuquerque — CONTACT: Bob Gill

ADDRESS: Aviation Dept. — PHONE: 842-4366

ARCHITECT: Burns/Peters Group — CONTACT: Charlie Otero

ADDRESS: 8000 Pennsylvania Circle NE — PHONE: 265-3645

SURVEYOR: Greiner Engineering — CONTACT: Jim Windberg

ADDRESS: 2601 Wyoming Blvd. NE. — PHONE: 292-1936

CONTRACTOR: _____ — CONTACT: _____

ADDRESS: _____ — PHONE: _____

PRE-DESIGN MEETING:

✓ YES

___ NO

✓ COPY OF CONFERENCE RECAP SHEET PROVIDED

DRB NO. _____

EPC NO. Z-1449-1 Approved 3-7-86

PROJ. NO. _____

TYPE OF SUBMITTAL:

___ DRAINAGE REPORT

___ DRAINAGE PLAN

X ~~CONCEPTUAL~~ GRADING & DRAINAGE PLAN

___ GRADING PLAN

___ EROSION CONTROL PLAN

___ ENGINEER'S CERTIFICATION

CHECK TYPE OF APPROVAL SOUGHT:

___ SKETCH PLAT APPROVAL

___ PRELIMINARY PLAT APPROVAL

___ SITE DEVELOPMENT PLAN APPROVAL

___ FINAL PLAT APPROVAL

X BUILDING PERMIT APPROVAL

___ FOUNDATION PERMIT APPROVAL

___ CERTIFICATE OF OCCUPANCY APPROVAL

___ ROUGH GRADING PERMIT APPROVAL

___ GRADING/PAVING PERMIT APPROVAL

___ OTHER _____ (SPECIFY)

DATE SUBMITTED: 4-3-86

BY: Robert Molina, Project Engineer

GREINER ENGINEERING SCIENCES, INC.
2601 Wyoming Blvd., N.E., Suite F
Albuquerque, New Mexico 87112
(505) 292-1936
Formerly MSM Consultants, Inc.
A Greiner Engineering, Inc. Company

TRANSMITTAL

TO City Hydrology
Jon & Central
Albuquerque

DATE 4-3-86
RE: Airport Maintenance Facility Bldg.

ATTN: Mr. Roger Green

JOB NO. 086057C

WE ARE SENDING THE FOLLOWING ☐ ATTACHED ☐ UNDER SEPARATE COVER, VIA Carrier

☑ PRINTS ☑ COPY OF LETTER ☐ CHANGE ORDER ☐ SPECIFICATIONS
☐ ESTIMATES ☐ PROPOSAL ☐ REPORTS ☐ _____

RECEIVED
APR 04 1986
HYDROLOGY SECTION

NO. OF COPIES	DATED	DESCRIPTION
2	4-3-86	Drainage & Grading Plan
1	4-3-86	Information Sheet
1	2-20-86	Drainage Conference Recap Sheet
1	3-86	Architectural Survey

THESE ARE TRANSMITTED:
☐ FOR YOUR USE ☑ FOR REVIEW AND COMMENT
☐ FOR APPROVAL ☐ AS REQUESTED

REMARKS: Package As Submitted to City Hydrology for Building Permit Approval.

CC: Mark Holdahl, Greiner Engineering
Charlie Otero, Burns/Peters Arch.
Bob Gill, City Aviation

GREINER ENGINEERING SCIENCES, INC.
Robert Mellin, Project Engineer

CITY OF ALBUQUERQUE
MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION/DESIGN HYDROLOGY SECTION

CONFERENCE RECAP

DRAINAGE FILE/ZONE ATLAS PAGE NO.: N-15 DATE: 2/20/86 @ 3:00

PLANNING DIVISION NOS: EPC: _____ DRB: _____

SUBJECT: Airport Maintenance Facility Bldg.

STREET ADDRESS (IF KNOWN): DIRT ROAD ON SECTION LINE

SUBDIVISION NAME: UNPLATTED LAND SEC 4 T 1N-R 3E
2.85 AC ±

APPROVAL REQUESTED:

_____ PRELIMINARY PLAT
_____ SITE DEVELOPMENT PLAN
_____ OTHER

_____ FINAL PLAT
X BUILDING PERMIT
_____ ROUGH GRADING

	WHO	REPRESENTING
ATTENDANCE:	Robert Molina	Greiner Engineering (212-1936)
	Roger Green	Design Hydrology

who is lead Dept for this project?

FINDINGS:

(1) Detailed Grading & Drainage Plan Required By ORDINANCE
(2) PAVED ACCESS REQUIRED by ORDINANCE
(3) Discharge rate determined by downstream capacity of existing or proposed drainage systems. Interim ponding acceptable if future outfalls are identified.
(4) Owner is City of Albuquerque
(5) Developed discharge may require flow easements as required by Ordinance
(6) Sketch Plat showing property ownership in area would be helpful.

2/21/86 - Area may be part of Albuquerque International Airport/University Golf Course Drainage Study July 1982 by Tom Moore & Assoc.

The undersigned agrees that the above findings are summarized accurately and are only subject to change if further investigation reveals that they are not reasonable or that they are based on inaccurate information.

SIGNED:	Roger L Green	SIGNED:	Robert Molina
TITLE:	Civil Engineer Hydrology	TITLE:	Project Engineer
DATE:	2/20/86	DATE:	2-20-86

NOTE PLEASE PROVIDE A COPY OF THIS RECAP WITH THE DRAINAGE SUBMITTAL

Field Book : Hydro # 4

P. Gallegos PC
C. Lucero T
O. Chavez D
D. Kerr D

Access Profile
Albuquerque International Airport

Monument used : ACS BM "1-N16 RESET" 1985
Elevation = 5308.73

Note that this differs from the plans furnished with survey request form.

N-15/D3

OK for building permit
Signoff.
Roger L. Green
7/7/86

Sta.	BS	HI	Int.	FS	Descrip
1-N16 Rev'd TP				4.77	
+50					
12+00					
+50					
11+00					
+50					
10+00					℄ of existing paving to North at the S'ly edge of concrete cutoff wall, as shown on survey request.
1-N16 'Rev'd'	4.77	5313.20			5308.73

Left ℄ Right

① Chain link fence @ 24.8' Rt
② Edge of dirt road @ 30 to 31' Right

07.1 / 4.1 / 40	06.9 / 4.3 / 0	08.2 / 5.0 / 24.8	07.4 / 5.8 / 30 31	07.6 / 5.6 / 40
07.4 / 5.8 / 40	07.4 / 5.8 / 0	08.6 / 4.6 / 24.8	07.6 / 5.6 / 30 31	07.7 / 5.5 / 40
07.7 / 5.5 / 40	07.8 / 5.4 / 0	08.6 / 4.6 / 24.8	07.7 / 5.5 / 30	07.9 / 5.3 / 40
08.1 / 5.1 / 40	08.2 / 5.0 / 0	08.6 / 4.6 / 24.8	07.8 / 5.4 / 30	07.8 / 5.4 / 40
08.3 / 4.9 / 40	08.1 / 5.1 / 0	08.4 / 4.8 / 24.8	07.05 / 5.7 / 30	07.7 / 5.5 / 40
08.70 / 4.5 / 40	08.45 / 4.75 / 17.4 ↑ c/l of cutoff wall	08.59 / 4.61 / 0	08.76 / 4.44 / 16 ↑	08.5 / 4.7 / 24.8 Chain link fence	07.4 / 5.8 / 30	07.7 / 5.5 / 40

MUNICIPAL DEVELOPMENT DEPARTMENT
ENGINEERING DIVISION

REQUEST FOR SURVEY

JOB NUMBER 11655 Hydro

REQUESTED BY:
- CITY ENGINEER . . . . . ____
- ASST. CITY ENGINEER-DESIGN. . . ____
- ASSOC. DESIGN ENGINEER. . . . . ____
- WATER RESOURCES . . . . . ____
- DEVELOPER . . . . . ____
- HYDROLOGY X

PURPOSE OF SURVEY:
- STREET DESIGN (CURB & GUTTER) . ____
- SANITARY SEWER EXTENSION. . . . ____
- STORM SEWER EXTENSION . . . . . ____
- SANITARY SEWER REPLACEMENT. . . ____
- WATER LINE EXTENSION. . . . . ____
- RIGHT-OF-WAY LOCATION . . . . . ____
- PUBLIC COMPLAINT. . . . . ____
- ACCESS PROFILE X

TYPE OF INFORMATION REQUIRED:
- PROFILE X
- CROSS SECTION X
- TOPOGRAPHIC . . . . . ____
- RIGHT-OF-WAY. . . . . ____
- PROPERTY SURVEY . . . . . ____
- PLANE TABLE . . . . . ____
- ____ . . . . . ____
- MH RIM-INVERT ELEVATION . . . . ____
- FLOOR ELEVATION . . . . . ____
- T.C. & FL ELEVATION . . . . . ____
- LINE AND GRADE. . . . . ____
- STORM INLET INFO. . . . . ____
- TOP FOOTING (BLOCK WALL). . . . ____
- ____ . . . . . ____

LOCATION DATA: A.I.B. INTERNATIONAL AIRPORT – SEE ATTCH SITE PLAN

SURVEYOR INSTRUCTION: 250' of Profile w/ CROSS SECTIONS every 50' (See Attached – Ref: A.C.S. Bench Mark)

CONTRACTOR: ____ / INSPECTOR: ____

WORK DATA ATTACHED
- FIELD BOOK HYDRO # 1
- SUBDIVISION (PLATS) ____
- BENCH MARKS (ACS) ____
- PROJECT PLANS √ - Attached
- RIGHT-OF-WAY MAPS ____
- WORK SKETCHES ____

Roger A Green — 6/20/86
REQUESTOR SIGNATURE — DATE

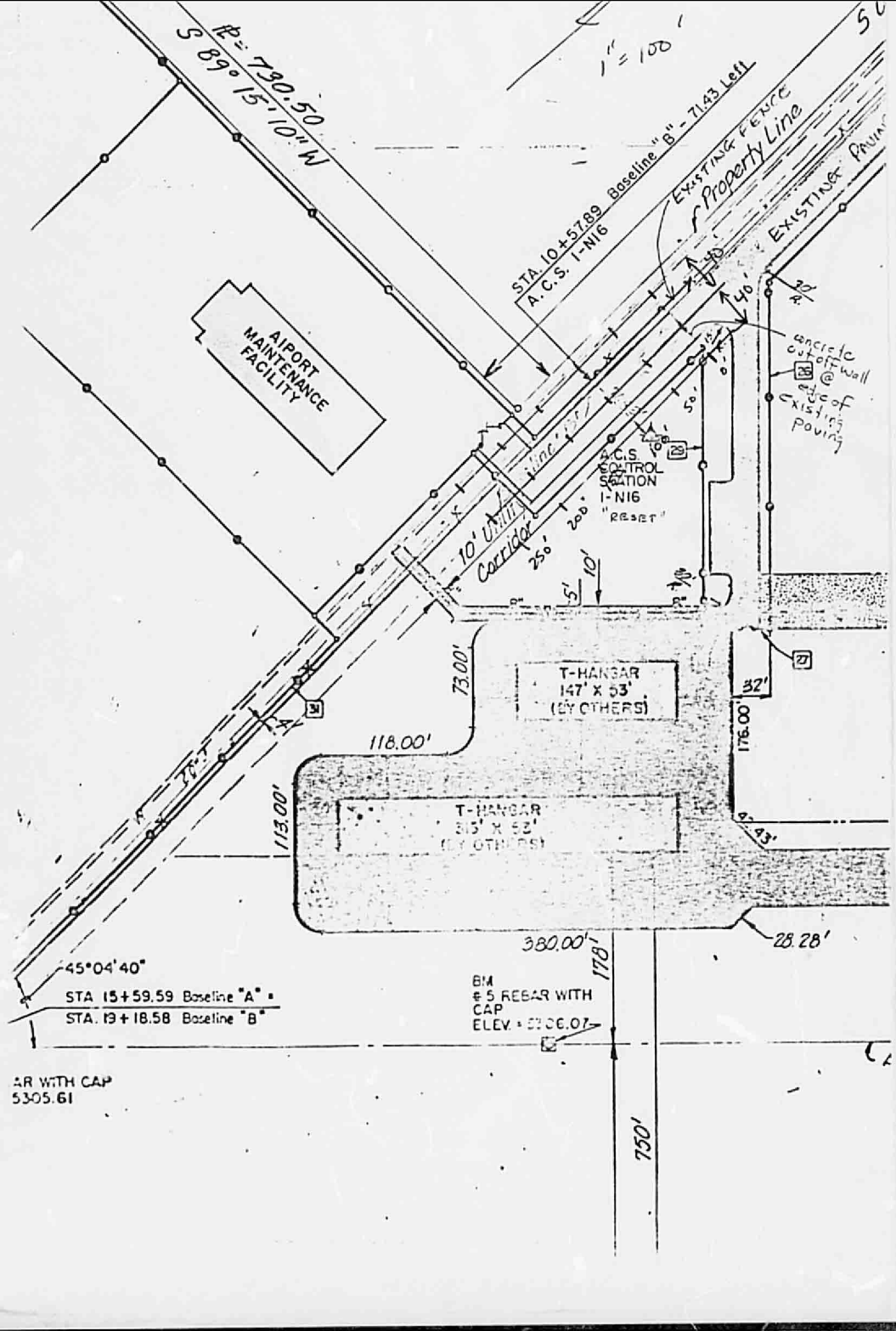
APPROVED: CHIEF SURVEYOR — 062086 DATE

SURVEY WORK DATA:

PRE-DESIGN SURVEYS			CONSTRUCTION SURVEYS			AS-BUILT SURVEYS		
PROFILE 250 L.F.	____ HRS.		C & G ____ L.F.	____ HRS.		C & G ____ L.F.	____ HRS.	
X-SECT 20,000 SQ.FT.	____ HRS.		SEWER ____ L.F.	____ HRS.		SEWER ____ L.F.	____ HRS.	
TOPO ____ SQ.FT.	____ HRS.		WATER ____ L.F.	____ HRS.		WATER ____ L.F.	____ HRS.	
MISC. ____ Total	2 HRS.		MISC. ____ ____	____ HRS.		MISC. ____ ____	____ HRS.	

SURVEYOR'S COMMENTS: The monument shown on the plans was reset in 1985. It has a new elevation and a new name. "I-N16-RESET". Should note this on any construction plans.

Roy Gallegos — June 25, '86
SURVEYOR — DATE


1" = 100'
R= 790.50
S 89° 15' 10" W
STA. 10+57.89 Baseline "B" - 71.43 Left
A.C.S. I-N16
EXISTING FENCE
Property Line
EXISTING PAVING
AIPORT MAINTENANCE FACILITY
A.C.S. CONTROL STATION I-N16
"RESET"
10' Utility Corridor
concrete cutoff wall @ edge of existing paving
T-HANGAR 147' x 53' (BY OTHERS)
T-HANGAR 315' x 52' (BY OTHERS)
73.00'
118.00'
113.00'
176.00'
32'
43'
28.28'
380.00'
178'
750'
45°04'40"
STA 15+59.59 Baseline "A" =
STA. 13+18.58 Baseline "B"
BM
#5 REBAR WITH CAP
ELEV. = 5306.07
AR WITH CAP
5305.61