

TP-01430

TP-01430

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
THIS MAP EDITION WILL NOT BE FIELD EDITED	
Map No. TP-01430	Edition No. 1
Job No. CM-8605	
Map Classification CLASS III, FINAL	
Type of Survey SHORELINE	
LOCALITY	
State TEXAS	
General Locality CORPUS CHRISTI BAY TO CUBA ISLAND	
Locality PADRE ISLAND	
1987 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit Atlantic Marine Center, Norfolk, VA		SURVEY TP. <u>01430</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III, Final</u> JOB <u>MM-CM-8605</u>	
OFFICER-IN-CHARGE  C. Dale North, Jr.		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation Compilation		Control July 28, 1987	
None April 18, 1988			
<b>II. DATUMS</b>			
1. HORIZONTAL:		OTHER (Specify)	
<input checked="" type="checkbox"/> 1983 <input checked="" type="checkbox"/> 1927 NORTH AMERICAN			
2. VERTICAL:		OTHER (Specify)	
<input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL			
3. MAP PROJECTION  Lambert Conformal Projection		4. GRID(S) STATE ZONE N.A. N.A.	
5. SCALE  1:20,000		STATE ZONE 	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION METHOD: Analytic		BY B. Thornton Mar. 1988	
LANDMARKS AND AIDS BY		B. Thornton Mar. 1988	
2. CONTROL AND BRIDGE POINTS METHOD: Kongsberg Plotter		PLOTTED BY B. Thornton Mar. 1988 CHECKED BY D. Norman Mar. 1988	
3. STEREOSCOPIC INSTRUMENT COMPILATION		PLANIMETRY BY R. Kravitz Apr. 1988 CHECKED BY F. Mauldin Apr. 1988	
INSTRUMENT: Wild B-8 SCALE: 1:20,000		CONTOURS BY N.A. CHECKED BY N.A.	
4. MANUSCRIPT DELINEATION  METHOD: Smooth Drafted		PLANIMETRY BY R. Kravitz Apr. 1988 CHECKED BY F. Mauldin May 1988	
SCALE: 1:20,000		CONTOURS BY N.A. CHECKED BY N.A.	
HYDRO SUPPORT DATA BY		R. Kravitz Apr. 1988 CHECKED BY F. Mauldin May 1988	
5. OFFICE INSPECTION PRIOR TO Final Review		BY F. Mauldin May 1988	
6. APPLICATION OF FIELD EDIT DATA		BY N.A. CHECKED BY N.A.	
7. COMPILATION SECTION REVIEW Class III		BY F. Mauldin May 1988	
8. FINAL REVIEW Class III		BY L. O. Neterer, Jr. June	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH		BY L. O. Neterer, Jr. Aug. 1988	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH		BY P. Dempsey Feb. 1989	
11. MAP REGISTERED - COASTAL SURVEY SECTION		BY	

NOAA FORM 76-36B  
(3-72)

U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

TP-01430  
**COMPILATION SOURCES**

**1. COMPILATION PHOTOGRAPHY**

CAMERA(S) Wild RC 10(B) (B = 152.74mm) Wild RC 10(Z) (Z = 153.15mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE Coordinated Photography		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	
				Central	
				MERIDIAN	
				90°	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
**87 BCN 7328-7338	09-30-87	1328	1:60,000	* At MLLW 0.3 ft. below MHW
**87 ZR 3238-3242	11-10-87	1315	1:60,000	
87 ZR 2781, 2784, 2787	10-03-87	1014	1:60,000	
**Even numbers only				Mean Tide Range - Diurnal

REMARKS Tide coordinated mean high-water and mean lower low-water photographs are based on actual tide data. These photographs are referenced to the tide station at Padre Island. \*Tidal information for these photographs was not available.

**2. SOURCE OF MEAN HIGH-WATER LINE:**

The mean high-water line was compiled from office interpretation of the above listed compilation/bridging color photographs using stereo instrument methods. The tide coordinated black and white infrared ratio photographs were used to assist in the interpretation of the mean high-water line.

**3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:**

The mean lower low-water line was compiled graphically from the above listed tide coordinated black and white infrared ratio photographs, on the Gulf coast only.

**4. CONTEMPORARY HYDROGRAPHIC SURVEYS** (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

**5. FINAL JUNCTIONS**

NORTH	EAST	SOUTH	WEST
CM-8208, TP-01199	No Survey	TP-01433	No Survey

REMARKS

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

TP-01430

## HISTORY OF FIELD OPERATIONS

1. ☒ FIELD ~~INSPECTION~~ OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Dunford	Sept. 1987
2. HORIZONTAL CONTROL	RECOVERED BY D. Miller	Sept. 1987
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY D. Miller	Sept. 1987
3. VERTICAL CONTROL	RECOVERED BY N.A.	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N.A.	
	LOCATED (Field Methods) BY N.A.	
	IDENTIFIED BY N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY N.A.	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Paneled

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
87 BCN 7332	HARDPAN, 1912		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

1 Form 76-53

1 Form 75-82A

I. MANUSCRIPT COPIES				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	May 1988	Class III Manuscript		
Final Review	June 1988	Class III, Final Map	Jan 1989	Jan 1989

II. LANDMARKS AND AIDS TO NAVIGATION			
1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH			
NUMBER pages	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Jan 1989	Charted landmarks and aids to navigation form
2. <input type="checkbox"/> REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____			
3. <input type="checkbox"/> REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____			

**III. FEDERAL RECORDS CENTER DATA**

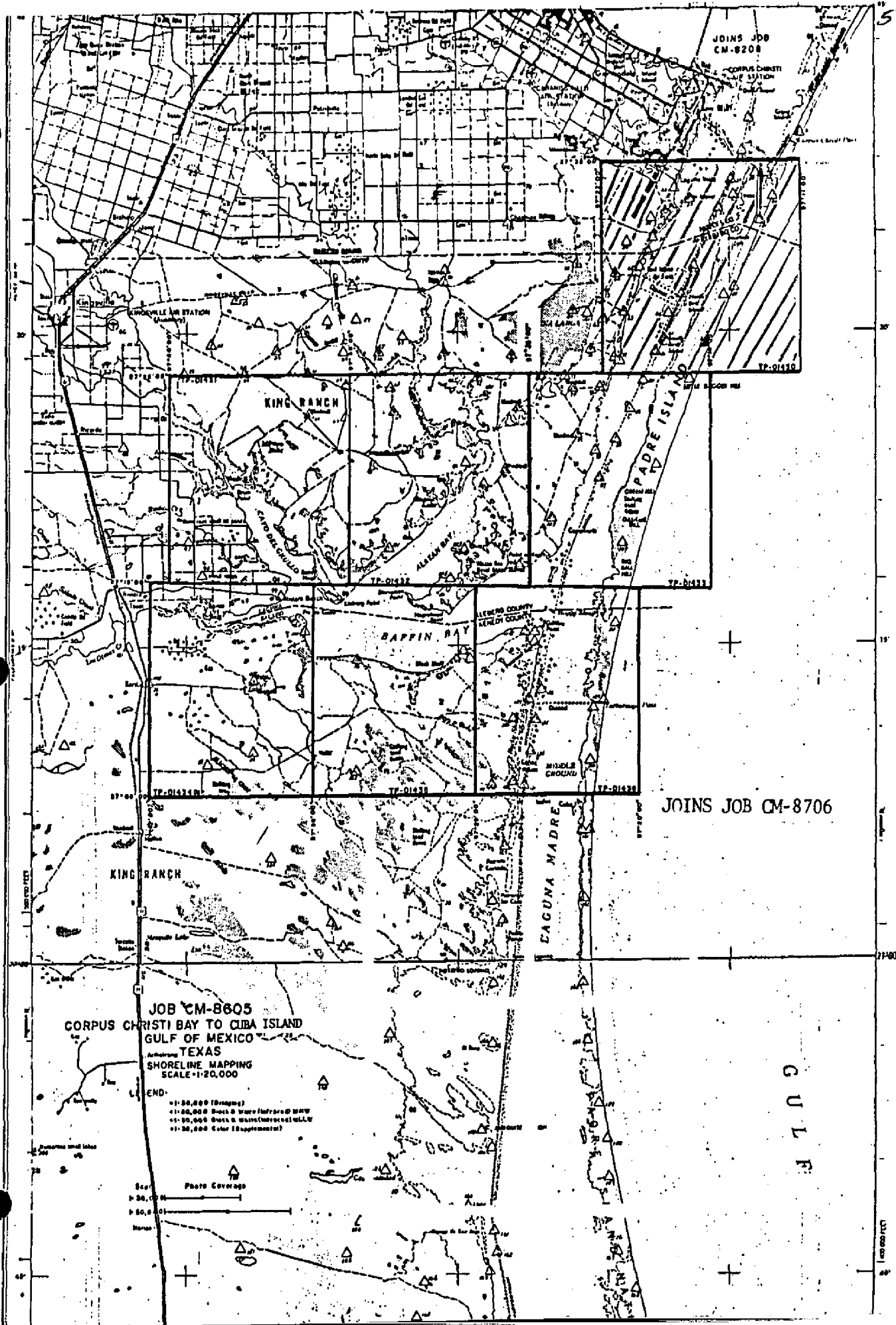
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.

2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.

3. ☐ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: \_\_\_\_\_

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)				
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL	



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01430

This 1:20,000 scale map is one of seven maps in project CM-8605, Corpus Christi Bay to Cuba Island, Texas, the project includes Baffin Bay. The project extends from latitude  $27^{\circ} 08' 00''$  north to latitude  $27^{\circ} 38' 00''$  and longitude  $97^{\circ} 11' 00''$  west to longitude  $97^{\circ} 47' 00''$ .

Field work prior to compilation was accomplished during September 1987. It consisted of premarking triangulation stations to satisfy aerotriangulation requirements.

Photographic coverage was provided in September 1987 with color film at 1:60,000 scale using the "B" camera (focal length 152.74 millimeters) and in October and November 1987 with infrared film at 1:60,000 scale using the "Z" camera (focal length 153.15 millimeters).

Analytic aerotriangulation was performed at the Washington Science Center in March 1988.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1:60,000 color and infrared photography in May 1988.

Final review was accomplished at the Atlantic Marine Center in June 1988. A Chart Maintenance Print for Marine Chart Branch and Notes to the Hydrographer Print for the Hydrographic Branch were prepared and forwarded.

This map is to be registered as a Class III, Final Map.

The original base manuscript and all pertinent data were forwarded to the Washington Science Center for final registration.

## FIELD INSPECTION

TP-00551

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and premarking of the horizontal control necessary for the aerotriangulation of the project.



AEROTRIANGULATION REPORT  
CM-8605  
CORPUS CHRISTI BAY TO CUBA ISLAND, TEXAS  
MARCH 1988

21. Area Covered

This report covers the area from Corpus Christi Bay, down to Cuba Island including Baffin Bay and Alazan Bay. The project consists of seven 1:20,000-scale sheets; TP-01430 through TP-01436.

22. Method

Four strips of 1:60,000-scale color photographs were bridged by analytical aerotriangulation methods using the STK comparator. The bridging strips were adjusted to ground using the General Integrated Analytical Triangulation Program (GIANT). Pre-marked control stations were used as horizontal control. Common points were transferred between strips to ensure adequate junctioning.

Ratio values were determined for the bridging photographs and the 1:60,000-scale MHW, MLLW and Mid Range infrared photographs. A copy of these values and a sketch of the photo coverage are attached to this report.

The base manuscripts were plotted on the Kongsberg plotter. The positions are in the Texas South, State Plane Coordinate System. This is a Lambert conformal conic projection. All positions are based on NAD 1983. In addition, 10mm ticks depicting NAD 1927 projection intersections were plotted at twice the interval of the NAD 1983 projection intersections.

23. Adequacy of Control

The control was adequate and meets the National Ocean Service requirements. A listing of closures to control is attached.

24. Supplemental Data

USGS topographic quadrangles were used to obtain vertical control for bridging. NOS Nautical Charts were used to locate aids and landmarks.

25. Photography

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by,

*Brian Thornton*

Brian Thornton

Approved and Forwarded:

*Don O. Norman*

Don O. Norman

Chief, Aerotriangulation Unit

## Ratio Values

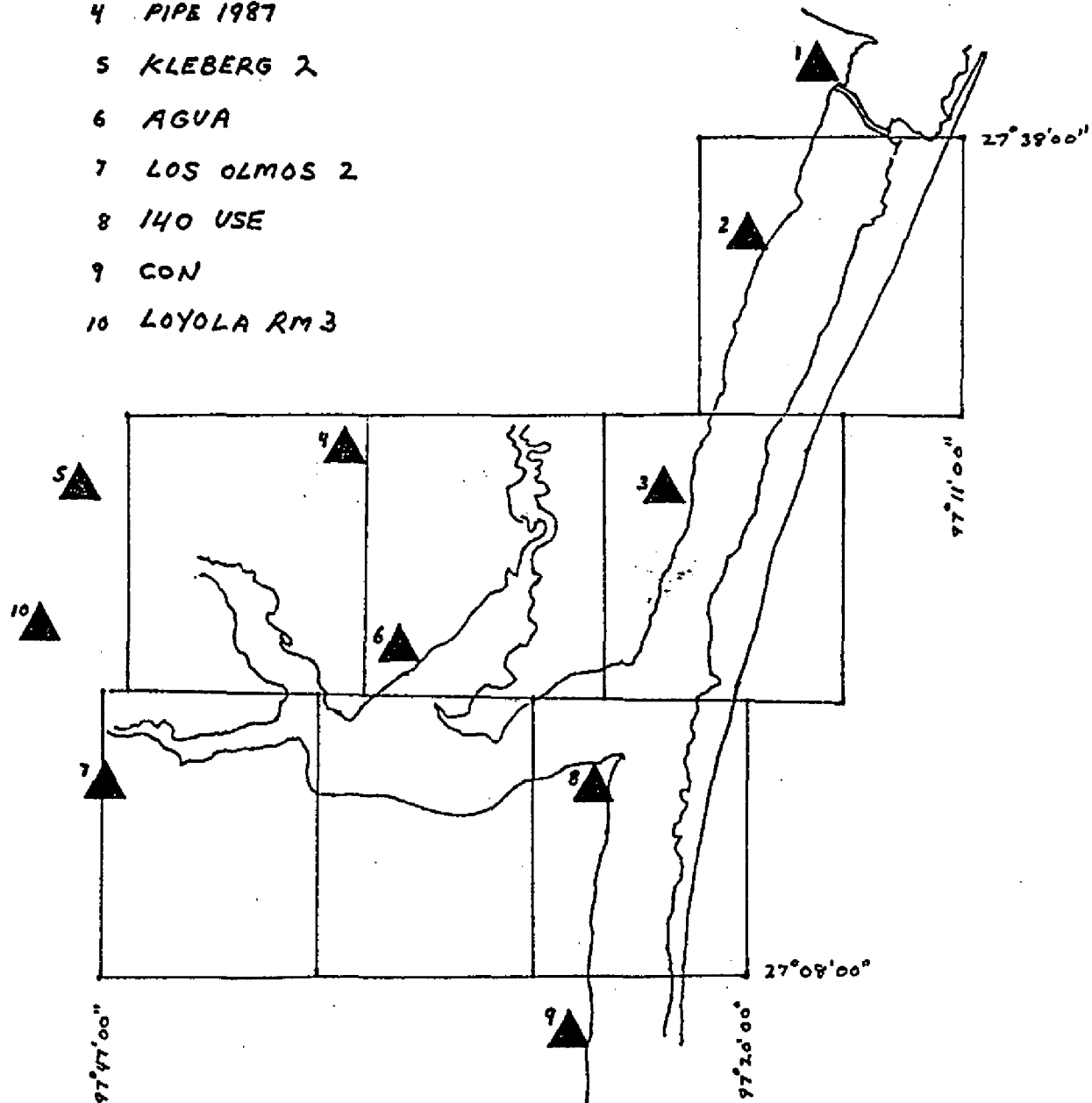
CM-8605

1:60,000 Bridging Photographs	RATIO VALUE
87 B(NC) 7312-7338	2.95
87 B(NC) 7344-7352	2.95
87 B(NC) 7355-7371	2.95
87 B(NC) 7397-7411	2.95
MHW 1:60,000 Black and White Infrared	
87 Z(R) 2763-2787	2.92
Mid Range 1:60,000 Black and White Infrared	
87 Z(R) 3247-3255	2.90
87 Z(R) 3262-3270	2.89
87 Z(R) 3276-3282	2.91
MLLW 1:60,000 Black and White Infrared	
87 Z(R) 3230-3242	2.91

## FIT TO CONTROL

STATION NAMES	POINT NO.	VALUES IN FEET	
		X	Y
1. Laguna Madre N.Base, RM3	338101	+0.7	-1.1
2. Hardpan	332100	-0.6	+0.9
3. Sordo	326100	-0.3	+0.9
4. Pipe 1987	348100	-0.9	+2.3
5. Kleberg 2	352101	+2.2	+1.1
6. Agua	365100	-0.7	-1.1
7. Los Olmos 2	411101	-0.4	-1.6
8. 140 Use	320100	-1.7	-0.7
9. Con	312100	+1.0	-0.3
10. Loyola RM3	355101	+0.6	-0.4

- 1 LAGUNA MADRE NORTH BASE, RM3
- 2 HARDPAN
- 3 SORDO
- 4 PIPE 1987
- 5 KLEBERG 2
- 6 AGUA
- 7 LOS OLMOS 2
- 8 140 USE
- 9 CON
- 10 LOYOLA RM3

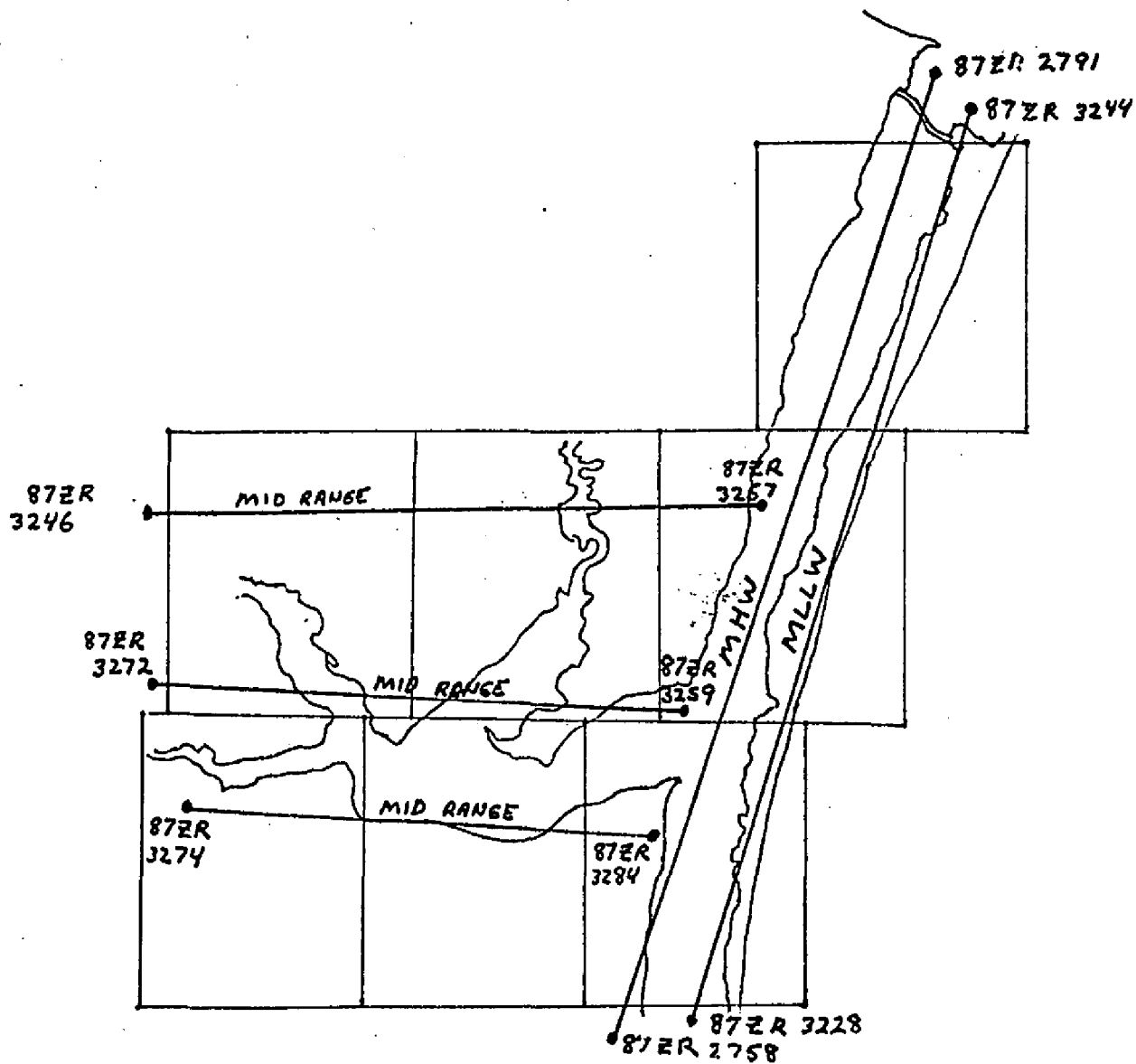


JOB CM 8605

CORPUS CHRISTI BAY TO CUBA ISLAND

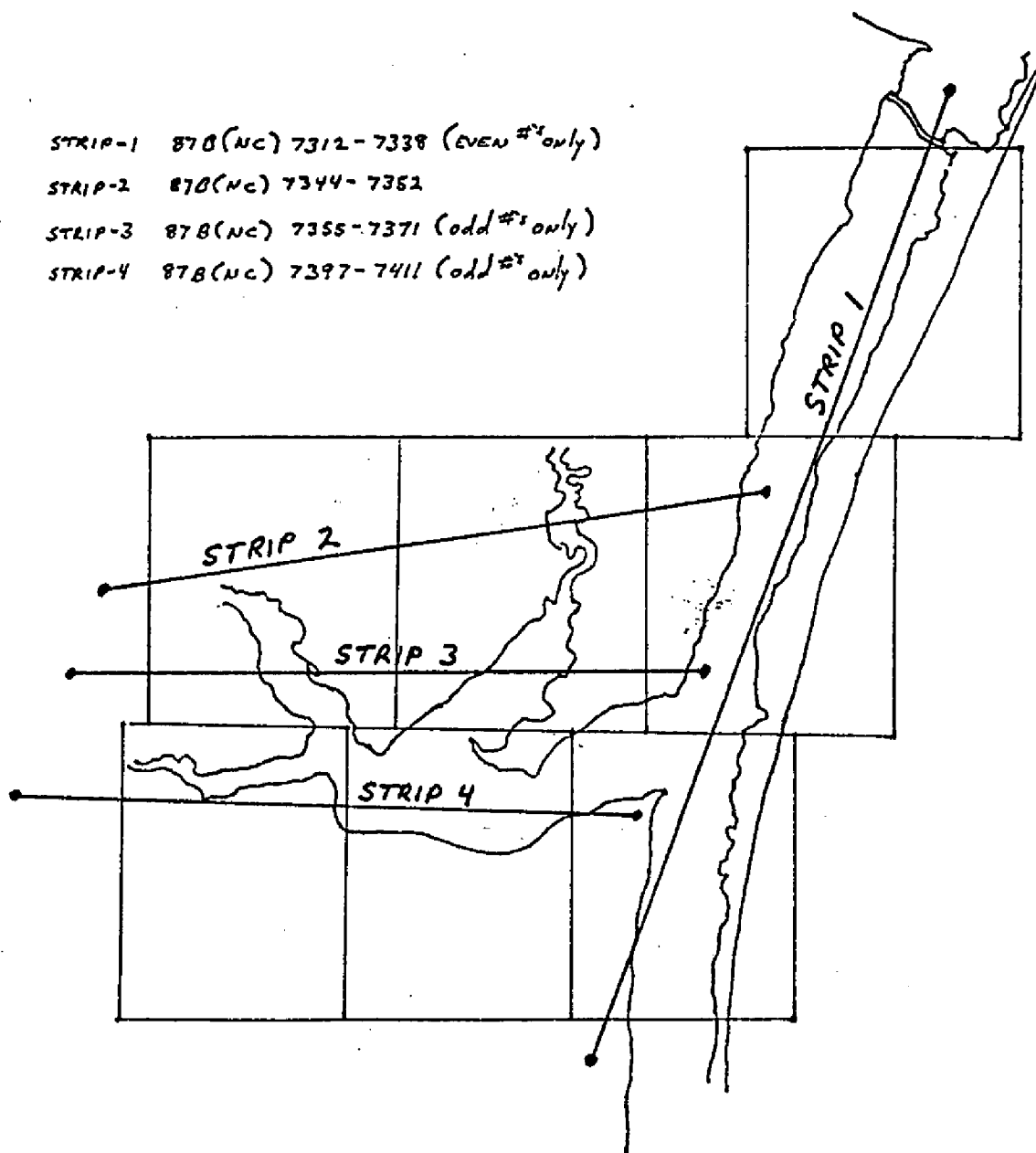
TEXAS

HORIZONTAL CONTROL



JOB CM-8605  
 CORPUS CHRISTI BAY TO CUBA IS., TEXAS  
 INFRARED PHOTOGRAPHY  
 1:60,000  
 SHORELINE MAPPING

STRIP-1 87B(NC) 7312-7338 (EVEN #'s only)  
STRIP-2 87B(NC) 7344-7352  
STRIP-3 87B(NC) 7355-7371 (ODD #'s only)  
STRIP-4 87B(NC) 7397-7411 (ODD #'s only)



JOB CM-8605  
CORPUS CHRISTI BAY TO CUBA ISLAND  
TEXAS

BRIDGING PHOTOGRAPHY  
1:60,000  
SHORELINE MAPPING

# DESCRIPTIVE REPORT CONTROL RECORD

[illegible]



## COMPILATION REPORT

TP-01430

31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument and graphic compilation methods. Instrument and graphic compilation were used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:60,000 scale bridging/compilation color photographs and the tide coordinated mean high water infrared ratio photographs.

Tide coordinated mean lower low water infrared ratio photographs were used to graphically compile the approximate mean lower low water line on the Gulf coast. Control for all graphic delineation was provided by instrument compilation of coastal detail and common image points.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate. The water level in the back bay areas is affected more by weather conditions than by actual changes in tide levels. For this reason, the mean high water infrared photographs appear to be at a lower stage of tide than the mean lower low water infrared photographs.

32. CONTROL:

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated March 1988.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and the apparent mean high water line in the bay areas were compiled from office interpretation of the 1:60,000 scale bridging/compilation color photographs and were complimented by the tide coordinated mean high water infrared ratio photographs.

TP-01430

36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods using the 1:60,000 scale bridging/compilation color photographs.

The tide coordinated mean lower low water infrared ratio photographs were used to compile the approximate mean lower low water line on the Gulf coast as described in item #31.

37. LANDMARKS AND AIDS:

Within the limits of this map, five charted landmarks and eight charted aids to navigation were located/verified photogrammetrically.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

Refer to the Data Record Form 76-36B, item 5, of the Descriptive Report. A junction was made with TP-01199, CM-8208. The mean high water line on the Gulf coast matches well, however the shoreline in the bay areas does not match due to the different years of the photography. A low water junction could not be made because CM-8208 did not have any mean lower low water photography.

40. HORIZONTAL AND VERTICAL ACCURACY:

See item #32.

46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following U.S. Geological Survey Quadrangles:

South Bird Island, Texas; dated 1969; scale 1:24,000  
Pita Island, Texas; dated 1969, photorevised 1975; scale 1:24,000  
Crane Islands SW, Texas; dated 1968, photorevised 1975; scale  
1:24,000  
Crane Islands NW, Texas; dated 1968, photorevised 1975; scale  
1:24,000  
Oso Creek NE, Texas; dated 1968, photorevised 1975; scale 1:24,000

TP-01430

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Service charts:

11307; 29th edition; dated July 26, 1986; scale 1:80,000  
11308; 14th edition; dated October 20, 1984; scale 1:40,000 SC

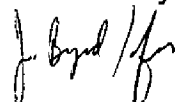
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

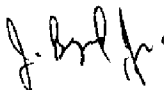
None.

Submitted by:



Robert R. Kravitz  
Cartographic Technician  
April 26, 1988

Approved:



James L. Byrd, Jr.  
Chief, Coastal Mapping Unit

<sup>17</sup>  
JUN 27 1988

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8605 (Corpus Christi Bay to Cube Island, Texas)

TP-01430

Big Hill

Bird Island Basin

Corpus Christi

Encinal Peninsula

Fourmile Hill

Madre, Laguna

Mexico, Gulf of

North Bird Island

Packery Channel

Padre Island

Pita Island

South Bird Island

Approved:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division  
Charting and Geodetic Services

REVIEW REPORT  
SHORELINE

TP-01430

61. GENERAL STATEMENT:

See Summary included with this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS quadrangles:

CRANE ISLANDS NW, TEXAS, dated 1968, photorevised 1975,  
CRANE ISLANDS SW, TEXAS, dated 1968, photorevised 1975,  
OSO CREEK NE, TEXAS, dated 1968, photorevised 1975,  
PITA CREEK, TEXAS, dated 1968, photorevised 1975 and  
SOUTH BIRD ISLAND, TEXAS, dated 1969;  
all five are 1:24,000 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEY:

There is no contemporary hydrographic survey within the limits of this map.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following NOS Charts:

11307, 29th edition, dated July 26, 1986, scale 1:80,000 and  
11308, 14th edition, dated October 20, 1984, scale 1:40,000.

TP-01430

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with the Project Instructions and meets the requirements for National Standards of Map Accuracy.

Submitted by:

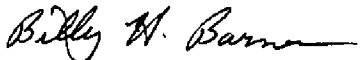


Lowell O. Neterer, Jr.

Final Reviewer

June 1988

Approved for forwarding:



Billy H. Barnes

Chief, Quality Assurance Group, AMC

Approved:



Chief, Photogrammetric Production Sect.

Chief, Photogrammetry Branch

## CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION LISTING

PAGE 1 OF 1

PROJECT: CM-8605

MAP NUMBER (Scale); Locality: TP-01430, 1:20,000; Corpus Christi Bay  
to Cuba Island, Texas

GEODETTIC DATUM: N.A. 1983

The following charted landmarks and nonfloating aids to navigation have been measured and or confirmed during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

<u>FEATURE DESCRIPTION</u>	<u>NCD CC</u>	<u>GEOGRAPHIC POSITION (°-'-")</u> <u>LATITUDE</u> <u>LONGITUDE</u>	<u>NCD Q.C.</u>	<u>DATE OF LOCATION</u>
CORPUS CHRISTI-BAFFIN BAY ✓				
Light 41 ✓	200 ✓	27 37 29.70 ✓ 97 14 39.90 ✓	7 ✓	9-30-87 ✓
Light 49 ✓	200 ✓	27 36 36.30 ✓ 97 15 08.40 ✓	7 ✓	9-30-87 ✓
Light 65 ✓	200 ✓	27 34 49.90 ✓ 97 16 04.90 ✓	7 ✓	9-30-87 ✓
Light 73 ✓	200 ✓	27 33 53.40 ✓ 97 16 34.00 ✓	7 ✓	9-30-87 ✓
Light 81 ✓	200 ✓	27 32 57.70 ✓ 97 17 03.10 ✓	7 ✓	9-30-87 ✓
Light 97 ✓	200 ✓	27 31 09.30 ✓ 97 18 00.00 ✓	7 ✓	9-30-87 ✓
Light 113 ✓	200 ✓	27 29 21.10 ✓ 97 18 56.80 ✓	7 ✓	9-30-87 ✓
Light 121 ✓	200	27 28 24.10 ✓ 97 19 27.00 ✓	7 ✓	9-30-87 ✓
Windmill ✓	86 ✓	27 35 18.30 ✓ 97 19 18.00 ✓	7 ✓	9-30-87 ✓
Windmill ✓	86	27 34 24.50 ✓ 97 19 12.70 ✓	7 ✓	9-30-87 ✓
Windmill ✓	86 ✓	27 33 01.20 ✓ 97 19 56.20 ✓	7 ✓	9-30-87 ✓
Windmill ✓	86	27 30 56.90 ✓ 97 20 49.20 ✓	7 ✓	9-30-87 ✓
Windmill ✓	86	27 28 44.60 ✓ 97 21 21.50 ✓	7 ✓	9-30-87 ✓

Listing approved by:

*Lowell Chittier*  
FINAL REVIEWER*June 1988*  
DATE

