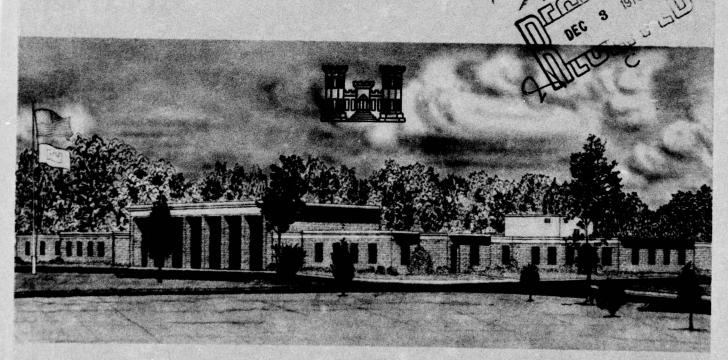




MISCELLANEOUS PAPER S-73-31

CONDITION SURVEY, MATHER AIR FORCE BASE, CALIFORNIA

P. J. Vedros



May 1973

Sponsored by Office, Chief of Engineers, U. S. Army

Conducted by U. S. Army Engineer Waterways Experiment Station
Soils and Pavements Laboratory
Vicksburg, Mississippi

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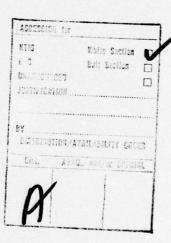
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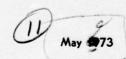
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Foreword

The study reported herein was conducted under the general supervision of the Engineering Design Criteria Branch, Soils and Pavements Laboratory, of the U. S. Army Engineer Waterways Experiment Station (WES), Vicksburg, Mississippi. Personnel involved in the condition survey were Messrs. P. J. Vedros, S. J. Alford, and P. S. McCaffrey, Jr. This report was prepared by Mr. Vedros under the general supervision of Messrs. J. P. Sale, R. G. Ahlvin, and R. L. Hutchinson of the Soils and Pavements Laboratory.

COL Ernest D. Peixotto, CE, was Director of the WES during the conduct of the study and preparation of the report. Mr. F. R. Brown was Technical Director.

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Conversion Factors, British to Metric Units of Measurement

British units of measurement used in this report can be converted to metric units as follows:

Multiply	Ву	To Obtain
inches	2.54	centimeters
feet	0.3048	meters
miles (U. S. statute)	1.609344	kilometers
square inches	6.4516	square centimeters
square feet	0.092903	square meters
pounds (mass)	0.45359237	kilograms
pounds (force) per square inch	0.6894757	newtons per square centimeter
Fahrenheit degrees	*	Celsius or Kelvin degrees

^{*} To obtain Celsius (C) temperature readings from Fahrenheit (F) readings, use the following formula: C = (5/9)(F - 32). To obtain Kelvin (K) readings, use: K = (5/9)(F - 32) + 273.15.

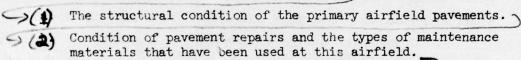
CONDITION SURVEY, MATHER AIR FORCE BASE, CALIFORNIA

Authority

1. Authority for conducting condition surveys at selected airfields is contained in amendment to FY 1972 RDTE Funding Authorization (MFS-MC-5, 16 February 1972), subject: "Air Force Airfield Pavement Research Program," from the Office, Chief of Engineers, U. S. Army, Directorate of Military Construction, dated 18 February 1972.

Purpose and Scope

2. The purpose of this report is to present the results of a condition survey performed at Mather Air Force Base (MAFB), California, during 31 October-3 November 1972. The following two major areas of interest were considered in this condition survey:



3. This report is limited to a presentation of visual observations of the pavement conditions, discussion of the observations, and pertinent remarks with regard to the performance of the pavements. No physical tests of the pavements, foundations, or patching materials were performed during this survey.

Pertinent Background Data

Location and topography

- 4. MAFB is located in Sacramento County, approximately 10 miles* east of Sacramento, California, and 2 to 4 miles south of the American River. A vicinity map is shown in plates 1 and 2.
 - 5. The airfield is located on practically flat terrain on the

^{*} A table of factors for converting British units of measurement to metric units is presented on page vii.

floor of the Great Central Valley of California at an elevation of between 76 and 100 ft above mean sea level. The natural drainage is poor, and the area has a slight slope toward the southwest.

- 6. MAFB is located on a portion of a long, linear, northwest-southeast trending alluvial plain of Pleistocene age. The plain is formed by the American River from ejections of the mouth of the canyon near Folsom and is about 5 miles wide between the bluffs of the older river deposits north of the American River and the low rolling hills of these older river deposits at the southern boundary of the airfield. The materials consist of cobbles, gravels, and sands in deposits varying from about 15 to 35 ft in depth. These materials are overlain or separated by strata of sand, silt, and clay, some of which are cemented, varying in depth from about 1 to 10 ft. The soil is reddish brown in color and each winter season becomes swampy in some areas due to perched water tables. The depth to water in the underlying gravels varies from about 15 ft during wet winters to about 45 ft during dry summers.
- 7. In general, the native subgrade soils consist of a silty, clayey, sandy type of material containing some gravel. Undulating hardpan, which consists of a closely cemented sandy clay material, generally underlies the surface soil. Plasticity indices of the subgrade range from 3 to 16, with the average values being between 6 and 7. Climatic conditions
- 8. The area has a climate characterized by hot summers, mild winters, and light amounts of precipitation. Frost occurs frequently but rarely penetrates below the ground surface. Climatic data (extracted from records obtained from the Air Weather Squadron located at MAFB) for the period 1941-1967 are shown in table 1. The mean monthly temperatures range from a low of about 46 F in January to a high of about 76 F in July. Average annual precipitation is about 17.1 in., varying from about 0.1 in. in July to 3.1 in. in January.

General description of airfield

Geology and soils

9. In November 1972, the airfield facilities consisted of both heavy-load and light-load pavements. The heavy-load pavements

consisted of a primary runway, a primary taxiway, warm-up aprons, a SAC parking apron, a SAC alert facility, and hangar access aprons. The primary runway was 300 ft wide and 11,300 ft long, and the SAC parking apron (including extension) was 675 ft wide and 2,772 ft long. The light-load pavements consisted of a parallel runway, connecting taxiways, parking aprons, warm-up aprons, washracks, and miscellaneous pavements. The parallel runway was 150 ft wide and 6,100 ft long, and the aprons were of various widths and lengths. A layout of the airfield pavements is shown in plate 1. A pavement plan indicating the type pavement on each facility is shown in plate 2.

Previous reports

- 10. Previous reports concerning MAFB are listed below. Pertinent data were extracted from them for use in this condition survey report.
 - a. Condition survey report: U. S. Army Ohio River Division Laboratories, CE, "Condition Survey Report, Mather Air Force Base, California," May 1963, Cincinnati, Ohio.
 - b. Pavement evaluation reports: It was reported that eight pavement evaluation reports have been prepared concerning the facilities at MAFB under the auspices of the U.S. Army Engineer District, Sacramento, CE. The latest was Report No. 8, dated February 1959.

History of Airfield Pavements

Construction history

11. Mather Field was established by the U. S. Government in the early part of 1918. At this time, the facilities consisted of hangars and a natural sodded airfield. The airfield was inactive from 1922 to April 1930 and from 1932 to 1941. In January 1941, extensive reconstruction was begun und r the supervision of the Sacramento District office. This phase of construction was completed in 1944 and consisted of taxiways; aprons; and runways that were 150 ft wide and 6,115, 6,100, 5,000, and 5,060 ft long. Further construction began in 1952 and continued intermittently to 1958. This construction consisted of strengthening some of the original facilities and constructing new facilities. Pavement construction after 1957 was designed according to heavy-load

requirements; i.e., to support a landing gear load of 240,000 lb carried on a single landing gear having twin-twin wheels abreast, with each wheel having a tire contact area of approximately 267 sq in. The spacing between twin wheels is 37 in. No new pavements have been constructed since 1958. Details of the design and construction history are presented in table 2. Pavement thicknesses and descriptions, and other details are presented in table 3.

Traffic history

- 12. A detailed traffic record was available for the period from July 1960 to December 1971. The B-52 aircraft began operations at MAFB in October 1958. However, at the time of this survey, there were no B-52 aircraft stationed at the base. The traffic record for 1971 indicates that there were about 75 cycles* per month by B-52 aircraft and about 85 cycles per month by KC-135 aircraft. It was reported that light trainer aircraft (T-29's) have averaged about 50 to 55 flights per school day. The heavy bombers and trainer aircraft, as well as aircraft located at other bases, use the runway considerably for touchand-go landings. These types of operation tend to build up rubber deposits on the pavement surfaces, requiring a yearly maintenance project for rubber removal.
- 13. It is estimated that the total B-52 traffic applied on the pavement since the B-52 aircraft started operations at MAFB to the present (November 1972) has been approximately 9,000 cycles. (Touch-and-go operations are not considered in the computation of cycles of traffic.) These 9,000 cycles were applied at aircraft gross weights ranging from approximately 400,000 to 430,000 lb. An estimated 85 percent of the takeoffs by heavy aircraft are from the northeast (22L) end of the primary runway, and an estimated 25 percent of the light aircraft use the parallel (04L-22R) runway. In addition to the above traffic, B-52 aircraft on alert are taxied or towed over various pavement features at aircraft gross loads of approximately 480,000 lb. It is estimated that there have been between 100 and 150 movements of this type per year.

^{*} A cycle of traffic is one takeoff and one landing.

Selected traffic data are presented in table 4.

14. It was reported that new T43A trainer jets (Boeing 737's) will begin replacing the propeller-driven T-29 aircraft at MAFB. The initial delivery of these trainer aircraft is due in June 1973.

Conditions of Pavement Surfaces

Pavement inspection procedure

tion of the rigid pavements. Representative features were selected for detailed inspection. The features were then inspected slab* by slab, and the defects were recorded. The locations of the individual pavement features, the inspection starting points, and the directions in which the pavements were inspected (shown by arrows) are indicated in plate 1. The results of the rigid pavement survey for those features that were inspected in detail are presented in table 5. This table shows a quantitative breakdown of the various types of defects and a condition rating for each pavement feature inspected in detail. The procedures used for determining the condition rating of a pavement are given in Appendix III of Department of the Army Technical Manual TM 5-827-3, "Rigid Airfield Pavement Evaluation," dated September 1965.

Primary runway

16. The primary runway (04R-22L) has been extended several times at each of its ends. The original runway was 6115 ft long and 150 ft wide and was constructed of 10-1/2-7-10-1/2 in. portland cement concrete (PCC). Later, this runway was strengthened by an asphaltic concrete (AC) overlay, except at the ends, which were overlaid with a minimum thickness of 12 in. of PCC and were extended 1890 ft with 15-in. pavements. In 1957 and 1958, the runway was extended 2200 ft at the SW end and 1600 ft at the NE end using the heavy-load pavement design, which resulted in pavement thicknesses ranging from 18 to 22 in.

^{*} A slab is the smallest unit, containing no joints, of a given pavement feature.

17. The results of the runway inspection are shown in table 5. The heavy-load pavements constructed of 18- to 22-in.-thick PCC were all in excellent structural condition, with less than 1 percent of the slabs containing a major structural defect. The rigid overlay pavements from sta 150+60 to 154+00 and sta 205+00 to 206+70 were also in excellent condition, with only a small number of structural defects observed in the surfaces. The 15-in.-thick pavement from sta 140+00 to 150+60 was in very good condition, with 19 percent of the slabs containing a major defect. The other portion of the runway with 15-in.-thick pavement (from sta 206+70 to 215+00) was in poor to failed condition, with approximately 41 percent of the slabs containing major defects. This feature is located at the end of the runway from which 85 percent of the takeoffs and landings occur. The interior of the runway (feature R6C), which is of flexible overlay design, was in excellent condition at the time of this survey. This area had developed a rough and uneven surface. The center section of the runway was heater-planed in 1970 to a depth of about 3/4 to 1 in., and a new AC overlay was placed. The outside edges that had not been heater-planed were sand sealed and were also in excellent condition.

Primary taxiway system

18. The heavy-load taxiway system consists of taxiways 1, 7, 8, and 9, the primary taxiway, the SAC alert taxiway, the SAC parking apron taxiway, and the SAC nose dock access taxiway. Taxiways 1, 7, and 8, the primary taxiway, and the SAC parking apron taxiway were all in excellent condition, with less than 1 percent of the slabs containing a major defect. Taxiway 9 was also in excellent condition, with about 5 percent of the slabs containing a major defect. The SAC alert taxiway, which consists of 21-in.-thick PCC pavement, was in very good condition, with about 5 percent of the slabs containing a major defect. The 15-in. PCC of the SAC nose dock access taxiway was in poor to failed condition, with about 75 percent of the slabs containing a major defect.

Primary aprons

19. The heavy-load aprons consist of the SAC parking apron and extension, warm-up aprons 1 and 5, and the SAC alert stubs. At the time

of this survey, no heavy aircraft were stationed at MAFB, so it was possible to survey all of the slabs in the apron areas. The survey indicated that approximately 16 percent of the slabs in the SAC parking apron and extension area contained major defects. The majority of these defects were observed to occur in the slabs over which the aircraft taxi to reach the individual parking slots. The taxi stripes for these parking positions were observed to be painted along joints, just adjacent to the joints (i.e., 2 to 4 ft from the edge of the slab), and in the centers of the slabs. (The taxi stripe for parking positions 103 and 125 was in the center of the slab.) Approximately the same percentage of the slabs contained cracking whether the taxi stripe was at or near a joint or in the middle of the slab.

- 20. Warm-up aprons 1 and 5 were in excellent condition, with less than 4 percent of the slabs containing major defects. The SAC alert stubs, which are only 100 ft wide, were also in excellent condition, with only about 5 percent of the slabs containing a major defect. It was reported that due to damage from engine blast and from the outrigger wheels an additional lane of PCC was placed adjacent to each side of the stubs in 1968. This addition appears to have solved the problem.
- 21. The SAC nose dock access aprons, which are 15-in.-thick PCC, were in a poor to failed condition.

Light-load facilities

This runway had also been heater-planed, and a new AC overlay was placed in 1970. The taxiways leading to the parallel runway (taxiways 2, 3, and 5) were in fair to good condition. Portions of taxiway 5 have been overlaid with AC. Except for reflection cracks from the underlying PCC, the taxiways seem to be performing satisfactorily. The large operational apron and extension were in fair condition, with a considerable amount of cracking apparent in the surface. The cracking appears to be from reflection from the underlying PCC and from shrinkage cracking in the asphaltic material rather than from overloading. The maintenance apron (feature A4B), which consists of 16-in.-thick PCC, was in excellent condition, with less than 5 percent of the slabs containing a major defect.

The 12-in. PCC of the washrack, which is used by all aircraft except the bombers and tankers, was in a poor to failed condition. Plans for over-laying or rebuilding the washrack pavement are in progress.

Maintenance

23. Maintenance of the rigid pavements by Base Civil Engineering personnel has consisted of spot joint sealing and spall repairing. The spall repairs have been made using epoxy resin materials. The patches that were placed using a saw cut to provide a vertical bonding face and a joint sawed to separate the patch in adjoining slabs seemed to be performing satisfactorily. Patches that had been placed by contract and in which no vertical face was sawed were spalling along the outside edges of the patch. Oil and hydraulic fluid spillage on the asphalt apron area has created a maintenance problem where the T-29 aircraft park. Due to poor housekeeping, a large amount of oil and hydraulic fluid is spilled during engine maintenance, and areas of the asphalt have become guite soft and have had to be replaced. Tar emulsions have been used in some of these areas but have not solved the problem. Another of the yearly maintenance jobs involves removing the rubber deposits on the runway. This type of maintenance usually costs about \$3000 to \$4000 yearly and consists of cleaning the rubber deposits from approximately 1600 to 1800 ft of the runway. Chemicals are usually used to dissolve and remove the rubber, but it was reported that the last rubber removal was accomplished by the use of grinders. This method of removal appeared to do a good job, but some of the pavement surface was ground down to the extent that the aggregate in the concrete mix was exposed. A maintenance history of the work performed during the period 1965-1970 is tabulated below.

Facility	Work Accomplished	Cost	Date
Operational apron and south apron extension	Removed and replaced deteriorated spots, placed rubberized tar slurry on parking areas	\$27,941	Jul 1966

(Continued)

Facility	Work Accomplished	Cost	Date
SAC parking apron	Sawed out spalled areas and re- placed them with epoxy concrete. Removed joint seal, widened joints, and replaced seal over breaker strip	\$93,000	Sep 1966
SAC alert apron stubs (9)	Replaced spalled AC in areas under outboard engines of B-52 air- craft	12,000	Jun 1968
Warm-up apron 2	Placed sand seal	2,100	Jul 1968
Overruns	Placed chip seal on all runway overruns	7,666	Jul 1968
Primary taxiway, warm-up apron 1, and primary runway edges	Placed seal coat of AC on shoul- ders and runway interior edges. Removed and replaced 6,250 sq ft of AC pavements at junction of AC and PCC pavements on primary runway	10,000	Sep 1968
Taxiways 2, 3, and 5 and former NW-SE runway	Placed 1-1/4-in. AC overlay on former NW-SE runway, primary taxiway to primary runway. Placed 1-1/2-in. AC overlay on taxiway 5, from maintenance apron to primary taxiway. Placed sand seal on taxiways 2, 3, and 5 (on 5 from primary taxiway to primary runway)	20,036	Aug 1968
Operational park- ing apron	Placed 1-1/2-in. AC overlay on fire lane along north edge of apron, 80,000 sq ft	35,341	Aug 1968
Parallel runway	Heater-planed the center 75-ft- wide area to depth of 3/4 in. and installed 1-in. AC overlay. Sand sealed remainder	40,318	May 1970

Evaluation

24. The latest pavement evaluation report for MAFB was prepared in 1959 (see paragraph 10b). Because some changes in gear configurations and methods of evaluation have been made since that time, a new evaluation table (table 6) has been prepared. The physical properties of the materials as determined in previous evaluations were used for determining

the load-carrying capabilities of the pavements. Where the conditions of the pavements indicated, the load-carrying capacities were adjusted.

Conclusions

- 25. The following remarks summarize the findings of the 1972 inspection:
 - a. The rigid pavements of thicknesses greater than 15 in. are in very good to excellent condition.
 - b. The 15-in. rigid pavements in the runway interior and the nose dock taxiway and apron area are in poor to failed condition.
 - c. The rigid overlay of the rigid pavement in the runway interior is in excellent condition.
 - d. The light-load taxiway pavements, which are 6-in. PCC with some portions overlaid with AC, are generally in poor to fair condition.
 - e. The washrack, which consists of 12-in. PCC pavement, is in a poor to failed condition.
 - f. The majority of the cracking in the SAC parking apron is in slabs near the landing gears of the parked aircraft and along the taxi stripe leading into the parking slots.
 - g. The use of joint seal material to retard the displacement of small spalls along the joints appears to be working satisfactorily, since there were very few spalls observed during this survey as compared with the number observed during the 1962 survey.
 - h. The epoxy resin mortar patches of spalls have performed satisfactorily only when the spalls have been sawed out and a vertical face has been provided as a bond for the epoxy material.

Table 1 Climatic Data*

		rage Daily eratures, 1	7	Average Rainfall
Month	Maximum	Minimum	Mean	in.**
January	53	38	46	3.1
February	59	41	50	2.6
March	63	43	53	2.5
April	71	47	59	1.8
May	78	51	65	0.6
June	86	56	71	0.1
July	92	60	76	0.1
August	91	59	75	0.1
September	87	57	72	0.2
October	77	52	65	1.1
November	64	1414	54	2.2
December	54	40	47	3.0
Annual	73	49	61	17.4

^{*} From MAFB Air Weather Squadron records for the

period 1941-1967.

** The average annual amount of snowfall at MAFB is considered to be negligible.

Table 2 Airfield Construction History

		sions					
Designation	Length	Width	Thickness, in.	Type	Year(s)	Agency	Remarks
			8-6-8	Call Control of the C			
N-S taxiway	2060	100	8-6-8	PCC	1941-42	CE.	Now is taxiway 4
R-W taxiway N-S runway	5000	150	8-6-8	PCC	1961-42 1961-42	CE	Has been removed Has been closed and part is no
nes runway	3000	150	04,40	FAG	1941-42	68	taxiway 5
NW-SE runway	5000	150	8-6-8	PCC	1941-42	CE	Closed
NE-SW (Parallel) runway	6100	150	8-6-8	PCC	1941-42	CE	Has been overlaid
NE-SW taxiway	3590	75	8-6-8	PCC	1941-42	CE	Has been closed
NW-SE taxiway	545	100	8-6-8	PCC	1941-42	CE	Now is taxiway 3
ME-SW runway (Primary)	(115	150	10-1/2-7-10-1/2	PCC	1943	CE	Has been overlaid
Connecting taxivay	1020	75	10-1/2-7-10-1/2	PCC	1943	CE	Has been overlaid
Apron	3600+	1400+	6	Class C concrete	1941	CE	Has been overlaid
Apron extension	11300+	275±	6	Class C concrete	1942	CE	Has been overlaid
Taxivay 6	1850+	75	14	AC	1944	CE	
Warm-up aprons 4 and 3A	Varies	Varies	14	AC	1944	CE	
Taxivay ?	513	75	4	AC	1944	CE	
Maintenance access apron	Varies	Varies	14	AC	1944	CE	
Fyimary instrument runway SW extension, sta 140+00 to 150+60	1060 830	150 150	1 ₄	AC AC	1944 1944	CE	Has been removed Has been removed
NE extension, sta 206+70 to 215+00		765	4	AC	1945	CE	Overlay of class C concrete
Parking apron and extension Farking apron, south extension	7200± Varies	Varies	3	AC	1952	CE	overlay or class c concrese
Maintenance docks	Varies	Varies	3	AC	1952-53	CE	
Warm-up aprons 2 and 3	Varies	Varies	10	PCC	1953	CE	
Washrack	150	150	12	PCC	1953	BCE**	
Taxiway 5 (overlay of portion of old N-S runway)	900	75	3	AC	1954	CE	
arallel runway (overlay of old NE-SW runway)	6100	150	3	AC	1954	CE	
Maintenance apron	742	715	16	PCC	1954	CE	
Primary instrument runway SW extension, sta 140+00 to 150+60 NE extension, sta 206+70 to 215+00	1060 830	150 150	15 15	PCC PCC	1955 1955	CE	Replaced 4-in. AC pavement constructed in 1944
Primary instrument runway Center, sta 154+00 to 205+00	5100	150	4	AC	1955	CE	Overlay of 10-1/2-7-10-1/2 PC
Primary instrument runway Sta 190+60 to 154+00 Sta 205+00 to 206+70	340 170	150 150	12 (minimum)	PCC PCC	1955 1955	CE	Overlay of 10-1/2-7-10-1/2 PC
Calibration hardstand (circular)			15	PCC	1956	CE	
Hangar apron	550	170	14	PCC	1956	CE	
Apron taxivay	1850+	75	3	AC	1956	CE	
Calibration hardstand taxiway	300	75	3	AC	1956	CE	
Primary instrument runway Sta 128+00 to 140+00	1200	300	18 18	PCC PCC	1957-58 1957-58	CE	
Sta 215+00 to 221+00 Primary instrument runway	000	300	10	100	1991-90	0.0	
100-ft S edge, sta 118+00 to 123+00	500	100	20	PCC	1957-58	CE	
100-ft N edge, sta 122+00 to 123+00 Sta 123+00 to 128+00	100 500	300	20	PCC	1957-58 1957-58	CE	
Sta 221+00 to 226+00	500	300	20	PCC	1957-58	CE	
100-ft N and S edges, sta 226+00 to 227+00	100	100	50	POC	1957-58	CE	
Primary instrument runway Sta 118+00 to 122+00	400	200	55	PCC	1957-58	CE	
Sta 122+00 to 123+00, center Sta 226+00 to 227+00, center	100	100	22	PCC	1957-58 1957-58	CE	
Sta 227+00 to 231+00	400	300	22	PCC	1958	CE	
Primary instrument runway, 75 ft each side Sta 140+00 to 154+00 Sta 205+00 to 215+00	1400	75 75	23 to 18 23 to 18	PCC PCC	1957-58 1957-58	CE	Widening Widening
Primary instrument runway; 75 ft each side, sta 154+00 to 205+00	5100	75	5	AC	1957-58	CE	Widening
Primary taxiway	9570+	75	50-55-50	PCC	1957-58	CE	
Taxiway 1 Taxiway 7	2344 + 1896+	75 75	22	PCC	1957-58 1958	CE	
Warm-up aprons 1 and 5	Varies	Varies	20	PCC	1957-58	CE	
SAC apron	1765	675	18	PCC	1957-58	CE	
SAC apron extension	1007	675	18	PCC	1957-58	CE	
SAC apron taxiway	2772	75	50-55-50	PCC	1957-58	CE	
T and B apron	400	565	19	PCC	1958	CE	
SAC nose docks, access apron, and taxiway	Varies	Varies	15	PCC	1958	CE	
SAC alert facility	Varies	Varies	21	PCC	1958	CE	

^{*} CE denotes Corps of Engineers. ** BCE denotes Base Civil Engineer.

SUNNARY OF PHYSICAL PROPERTY DATA

Mather	w 1/20														
FACIL	FACILITY NUMBER AND IDENTIFICATION	LENGTH	MIDTH T4	T K	DESCRIPTION	FLEX. STR PSI	THICK.	DESCRIPTION	FLEX STR PS:	THICK	CLASSIFICATION	8 % ×	CLASSIFICATION	8 8 ×	CONSIDERED
RIA	Primary runway, 04 R end; 100-ft center, sta 118+00 to 123+00, and 100-ft N edge, sta 118+00 to 122+00	500 to	100 to 200				8	Mortland cement concrete	040	0	Crushed sandy gravel		Sandy clay to silty sand	8	Scor lect
REF	Primary runway; 100-th Hedge, sta 122-00 to 128-00, and center and Seige, sta 123-00 to 128-00 Primary runway, 04 R end; 100-th Seige, sta 113-00 to 123-00	900 2005	300				8	Portland ceneral concrete	049	9	Crushed namby grave!		chayey gravel	8	Excellent
83C	Primary nurway interior; sta 128400 to 140400	1500	300				188	Fortland cement concrete	GAO	40	Crushed heady gravel		Sandy clay to sandy clayey gravel	988	Excellent
340	Primary runwag interior: 150-ft center, sta 140+00 to 150+60	1060	150				15	Portland ceneut	989	ve	Select fill	88	Sandy clay to sandy clayer gravel		Very good
R172	Primary runway interior: 75-ft edges, sta 140+00 to 154+00	17.00	75				18 to 23	Fortland cement concrete	640	w	Crusted sandy gravel		Sandy clay to sandy clayery gravel	88	Excellent
350	Frimary runway interior; 150-ft center, sta 150+60 to 154+00	340	150	12 min	Portland cement concrete	619	7	Portland cement concrete	980	es es	Select fill		Sandy clay to sandy clayey gravel	300	Excellen
GO	Primary runway interior; 150-ft center, sta 154+00 to 205+00	5100	150	10	Asphaltic concrete stabilized aggregate		7	Portland cement concrete	880	8.6	Select fill		Sandy clay to sandy clayey gravel	088	Excellent
PA	Primary runway interior; 75-ft edges, sta 154+00 to 205+00	5100	75				5	Asphaltic		(I) 4 (F)	Graded crushed stone subtase	100	Sandy clay to randy clayey gravel	40	Dorel Lent
NA RTC	Primary runway interior; 150-ft center, sta 205+00 to 206+70	170	150	12 min	Fortland cement concrete	629	7	Fortland cement concrete	880	in in	Select Mill		Sandy clay to emidy clayey gravel	88	Excellent
NI NI SE	Primary runway interior; 75-ft edges, sta 205+00 to 215+00	1000	5				18 to 23	Fortland cement concrete	049	10	Crushed sandy gravel		Sandy clay to clayer gravel	000	Excellent
пвс	Frimary runway interior; 150-ft center, sta 206-70 to 211+50	7480	150				25	Fortland cement concrete	629	9	Select fill	350	Sandy clay to mandy clayey gravel		poor to falled
100	Primary runsay interior: 150-ft center, sta 211-50 to 215+00	350	100 50				15	Fortland cement concrete Fortland cement concrete	9 8	10 10	Crushed sandy gravel Select fill	380	Sandy clay to sandy clayey gravel	8	Poor to failed
H10C	Primary runway interior; sta 215+00 to 221+00	009	300				18	Fortland cement concrete	049	9	Crushed sandy gravel		Sandy clay to sandy clayey gravel	002	Excellent
113	Frimary runway, 22L end: 100-ft Nand Sedges, sta 221+00 to 227+00, and 100-ft center, sta 221+00 to 226+00	500 to 600	300 to		•		8	Portland cement concrete	640	9	Crushed sandy gravel		Sandy clay to sandy clayey gravel	002	Excellent
6															

Table 3 (Continued) SUMMARY OF PHYSICAL PROPERTY DATA

	FACILITY				OVERLAY PAVEMENT			PAVEMENT			BASE		SUBGRADE		GENERAL
2	Mather AFB FACILITY NUMBER AND IDENTIFICATION	LENGTH	#IOTH FT	THICK.	DESCRIPTION	FLEX. STR PSI	THICK.	DESCRIPTION	FLEX. STR PSI	THICK	CLASSIFICATION	0 0 ×	CLASSIFICATION	5 8 ×	CONDITION OF AREA CONSIDERED
NPY	100-ft N and S edges, sta 227-00 to 231-00, and 100-ft center, sts 226-00 to 231-00	500 to 000 to	300 to 100				35	Fortland cement concrete	640	9	Crushed sandy gravel		Clayer sands pravel. to clayer sand	800	Excellent
R13B R14B R15C	Parallel runway Oki-228	9019	150	3 6 min	Asphaltic concrete Silty sandy gravel		9	Fortland cement concrete	650	2 min	min Sandy gravel		Gravel	520	Excellent
AT.	Primary taxiway	9570 +	2			Ci .	50-22-50	Fortland cement concrete	0759	9	Crushed gravel		Sandy gravel to gravelly clayey sand	200	Exections
12A	Taxiway 7	1896+	75			10	83	Fortland cement concrete	040	9	Crushed gravel		Sandy clay to sand silt	200	Excellent.
T34	Taxiway 1	2377	52				55	Portland cement concrete	640	9	Orushed gravel		Clayey sandy gravel	5002	Brow Llent
日本	SAC alert taxiway	3650	75 and 100				22	Fortland cement concrete	610	9	Base course (W-GK)		Gravelly sandy clay	200	Sery good
肾	Taxiway 3	545	100	1.5	Asphaltic concrete		9	Fortland cement	949	c.	Stabilized gravel		Gravel sandy clay	551	Patr
160	Taxfasy 4	059	100				9	Fortland cement concrete	650	cu	Gravel		Gravel sandy clay	125	Felly
E	Indiany 5	86	25	6 min	Asphaltic concrete Silty sandy gravel		9	Fortland cement concrete	059	Variabl	sriable Sandy gravel		Clayey sandy gravel	250	Fair
1130	C N-S runway (closed) taxiway 5		150	1.5	Asphaltic concrete (Sast 75 ft)		9	Fortland cement concrete	650	9	Gravel		Sandy clay	125	Fair to poor
16	Taxiway 8	550	52				18 to 22	Fortland cement concrete	640	9	Crushed gravel		Gravelly clayer sand to gravelly sandy clay	002	Excellent
18	Taxiway 9	850	75				8 to 22	Fortland cement concrete	640	9	Crushed gravel		Gravelly clayey sand to gravelly sandy clay	900	Scotles:
TIOA	A SAC spron and extension taxivay	2572	22			, co	02-52-03	Portland cement	049	9	Ornshed gravel		Gravelly clayey sand to gravelly sandy clay	200	Excellent
1118	Nose dock access taxiway		22				15	Fortland cement	630	9	Fane course (GW-GM)		Sandy clay	882	Poor to
11.0E	B Puel cell taxiway		25				15	Portland cement concrete	680				Sandy clay	200	Excellent
1128	E Taxiway 2	513	25					Asphaltic concrete		17	Stabilized gravel Fit-run gravel	88	Gravelly sandy clay	-3	Good
T13B	B Taxiway 6	1850€	75				.,	Asphaltic concrete		2 23-29	Stabilized gravel Fit-run gravel	288	Silty clay	10	Patr
1148	B Connecting taxiway	1020	45				7	Portland cement concrete	059	9 11	Gravel Select fill		Gravelly sandy clay	150	Fair
ALE	SAC parking apron and extension	27772	675				18	Portisnd cement concrete	940	9	Crushed gravel		Gravelly clayey sand to gravelly sandy clay	002	Very good
AZB	Operational apron (original parking apron)	Veries	675	# (Asphaltic concrete	9	9	Class C portland ce- ment concrete (rolled)	90				Sandy clay	13	Pater
MES FORM	TOPE LOOP	1			40.00		1							(3)	(2 of 3 sheets

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Table ? (Continued)

SUMMARY OF PHYSICAL PROPERTY DATA

Control of the cont		FACILITY					OVERLAY PAVEMENT			PAVEMENT			BASE		SUBGRADE		GENERAL
Control types Oct	FAC	IET AFB			_	× .	DESCRIPTION	FLEX. STR PSI	THICK.	DESCRIPTION	STR STR PSI			8 8 ×	CLASSIFICATION	5 5 ×	CONDITION OF AREA CONSIDERED
Table Payment Mode Second	1.48	-	Varie	_	177				m	Asptaltic concrete		30.00		88	Skrody clay	(8)	Fadr
Multicontion approach Total Control Co	A3B	-	0017	595					19	Fortland cement concrete	089	9	Base course (GW-GM)		Sandy clay	88	Soot
Marticolation spring National State National State	AAB		71/2	7115					16	Fortland cement concrete	750	9				98	Seellent
Page 1921 Sept. No. 1921 Sept. No. 1921 Sept. No. 1922 Sept. No.	1	-	Varie	-					.if			23-29		85		.0	Fair
Second	8		Varie		10 C)				100			80	Stabilized gravel Select gravel	28	Sandy clay	4	Butr
2002 2004	m	Hangar apron	220	170					178	Fortland cement	720	140	Shady gravel		Lean clay	250	Good
Age and statement of the first of	m	-	839	155					115	Contland cement	630	9	Swae course (GW-GR)		Sandy class	500	Poor to fwiled
Abstraction No. 14 Varies	m m		Varie		88				10	Fortland cement concrete	969	9	Select gravel		Clayey sand		Very good Excellent
Authorn Depth Objection Application	12	Warm-up apron No.	Varie		6.5				22	Asphaltic concrete		17-29		98	Sandy clay	-3	good
No. 1 and 5	6	Warm-up apron No.	Varie	-	8				11			CV.	Stabilized gravel	8	Sandy clay to sandy silt	0.	Fair
Sec alert stude (3) Varies Value Case and Calculation connected 21 Position connected 22 Position connected 23 Position connected 23 Position connected 24 Position connected 25 24 24 24 24 24 24 24 24 24 24	m 60		Varie		to e				20	Portland cement concrete	049	10	Crushed gravel		Sandy clay to clayey sandy gravel	98	Excellent
1.56 1.56 Aughalite concrete 6 Dortland cement 650 1-9 Gravel 150 150 1-9 Gravel 150 1	PL .	SAC alert stubs	Varie	-	sy e					Fortland cement concrete	610	9	Base course (GM-GM)		Gravelly sandy clay	300	Excellent
Transverse taxivny (closed) 75 Portland cenent 650 1-9 Gravel 120 140 170	18	MW-SE		150	1.5		st 75 ft)		9	Fortland cement concrete	059	2-12	Gravel		Sandy clay	87	
12 Portland cement 15 Sandy gravel Sandy gravel Sandy gravel Sandy gravel Sandy clayer Sandy		Transverse taxiway (closed)		75					10	Portland cement	9	6-7	Gravel		Gravelly sandy clay	138	Poor
Calibration hardstand 300 75 Portland cement 780 6 Clayer sanky gravel 185 Calibration hardstand 300 75 Asphalts concrete 6 Sand gravel 80 6.1m. compact sanky 8	Di		150	150					12	Fortland cement concrete		9	Sandy gravel		Sandy clay	1	Poor to
Calibration hardstand 300 75 Asphaltic concrete 6 Sand gravel 80 6 in. compact samply 8 clay.	80								15	Portland cement	780	10	Clayey sandy gravel		Sandy clayey gravel		Pair
	0		300	75						Asphaltic concrete		9	Sand gravel	8		-	Fair
		•															

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Table 4

Aircraft Traffic Data
1960-1971

Type of Movement Involved	Type of Aircraft	No. of Operations	Average Takeoff Weight, 1b	Average Landing Weight, 1b
Takeoff starting from 22L end of primary runway; approach via SAC parking apron or extension, taxiway 8 or 9, primary taxiway, taxiway 1, and warm-up apron 1	B-52	2,358	≤400,000	230,000
Takeoff starting from 22L end of primary runway; approach via SAC alert stubs and SAC alert taxiway		5,206	430,000	230,000
Takeoff starting from C4R end of primary runway; approach via SAC parking apron or extension, taxiway 8 or 9, primary taxiway, taxiway 7, and warm-up apron 5		420	≤400,000	230,000
Takeoff starting from 04R end of primary runway; approach via SAC alert stubs, SAC alert taxiway, taxiway 1, primary taxiway, taxiway 7, and warm-up apron 5		909	430,000	230,000
Alert movement; from SAC alert stubs to SAC alert taxiway, taxiway 1, primary taxiway, taxiway 7, primary runway, SAC alert taxiway, and back to SAC alert stubs		1,144	480,000	230,000
Alert movement; from SAC parking apron or extension to taxiway 8 or 9, pri- mary taxiway, taxiway 1, primary run- way, and back to SAC parking apron		1,232	480,000	230,000
Takeoff starting from 22L end of primary	Tanker	7,926	255,000	115,000
runway	Heavy cargo	602	275,000	190,000
	Medium cargo	378	195,000	145,000
	All others	99,228	15,000- 40,000	-
Takeoff starting from O4R end of primary	Tanker	1,399	255,000	115,000
runway	Heavy cargo	106	275,000	190,000
	Medium cargo	67	195,000	145,000
	All others	17,511	15,000 - 40,000	
Takeoff starting from 22R end of paral- lel runway	All others	33,076	15,000-	<u></u>
Takeoff starting from O4L end of paral- lel runway	All others	5,837	15,000-	

Note: Portions of traffic data are estimated.

- RIGID PAVEMENT CONDITION SURVEY	NO. OF SLABS CONTAINING INDICATED DEFECTS SLABS SLABS OF CONTAINING INDICATED DEFECTS	MAJOR DEFECTS	1 99 100 Excel.	100 100 Excel-	100 100 Excel-	100 100 Excel-	99 99 Excel-	1 15 1 Wery 80 decod		M MAP CRACKING P PUMPING JOINT JOINT O POP-OUT L JOINT C UNCONTROLLED O TO CRACKING
SUMMARY OF DATA		√1−					1	6 48 3 3		S SCALING S SCALING J SPALL ON TRANSVERSE JOINT SPALL ON LONGITUDINAL JOINT CORNER SPALL SETTLEMENT
	PAVE.	ź	22	08	50	18	18-23	15		
	APPROX	SLABS	77.	*	240	576	360	258		RACK ACK ACK CME
	SLAB	FT	52 pg 52	25 by 25	25 by 25	25 by 25	20 by 25 25 by 25	10 by 25 25 by 25		LONGITUDINAL CRACK TRANSVERSE CRACK DIAGONAL CRACK CORNER BREAK SHATTERED SLAB
DATE: November 1972	FEATURE	NO. DESIGNATION		R16D Primary runway, 04R end: 100-ft S edge, sta 118+00 to 123+00	RZB Primary runway; 100-ft N edge, sta 122+00 to 128+00, and center and S edge, sta 123+00 to 128+00		0	RMC Primary runway interior; 150-ft scenter, sta 140+00 to 150+60	REMARKS:	LEGEND: LONGING TRANS NAGON NA

MOVE	November 1972														2000	121		-	-	-	1	ON TOOL ALE	
	FEATURE	St. A.B.	APPROX NO. OF	PAVE.				1	NO.	OF SL	ABS CC	ONTAIN	SLABS CONTAINING INDICATED DEFECTS	DICATE	D DEF	ECTS	-		-		% OF 5LABS	% 28 % Si & B & C	CONDITION
	DESIGNATION	t	St. ABS	ż	-	ı	/	٥	*	×	*	S	7	7	+	Σ	O.	0	U	۵	DEFECTS	DEFECTS	
	Primary runway 12.5 by interior; 150-ft 20 center, sta 150-f60-20 by 25 to 154-00	12.5 by 20 20 by 25	136	12 min/ 7	m	m	cu .	01			87								p=1		ਰ	ま	Excel- lent
	Primary runway interior; 150-ft center, sta 205+00 to 206+70	10 by 12.5	108	12 min/7		-															81	8.	Excel- lent
R9C	Primary runway interior; 150-ft center, sta 206+70 to 215+00	25 by 25	507	15	52	629	13	- Q	9		80	m						+	-		A	8	Foor to
R190	Primary runway interior; 75-ft edges, sta 205+00 to 215+00	20 by 25 25 by 25	258	18-23	1	н								-							8)	8	Excel- lent
R10c	Primary runway interior; sta 215+00 to 221+00	25 W 25	288	18	0			1- 1-				14			-			-	1		8,	66	Excel-
7 2	REMARKS:													-		-	-	-	_				
10	LEGEND: LONGI NAGO CORNI SHARING CORNI K SHAFI K KEYEF	LONGITUDINAL CRACK TRANSVERSE CRACK DIAGONAL CRACK SCHRER BREAK SCHREFED SLAB KRYED JOINT FAILURE	RACK ACK		きのカチフ◆	SHRINKAGE CRACK SCALING SPALL ON TRANSVERSE JOINT SPALL ON LONGITUDINAL JOIN SCENER SPALL SCETTLEAGNT	N TRAN	ASVERSE SITUDINA	SHRINKAGE CRACK SCALING SPALL ON TRANSVERSE JOINT SPALL ON LONGITUDINAL JOINT SCRINER SPALL		2000	MAP CRACKING PUMPING JOINT POP-OUT UNCONTRACTION C *D* CRACKING	WAP CRACKING PUMPING JOINT POP-JOUT WOONTROLLED CONTRACTION CRACK TO CRACKING	3ACK									

PAO	DATE: November 1972				S	SUMMARY OF	Y OF	DATA	- 1	GID	PAVE	RIGID PAVEMENT CONDITION SURVEY	COND	NOIL	SUR	VEY					AIRFIELD:	ELD: Math	Mather AFF	
	FEATURE	SLAB	APPROX	PAVE.					NO. OF		ABS C	SLABS CONTAINING INDICATED DEFECTS	NING IN	DICAT	ED DE	FECTS					2 4 3		% 04 05 84 PS NO	
ő	DESIGNATION	5/2E	St. ABS	ž ž	-	1	/	٥	*	×	*	s	b	·	7	•	Σ	0	0	0				01000
RILB	Erimary runway, 22L end; 100-ft N and S edges, ste 221+00 to 227+00, and 100-ft center, sta 221+00 to 226+00	25 by 25	272	8		1							1					,			8		80 A	Excel- lent
RIZA		25 by 25	20g	.c.										н							8.	130		Excel- lent
TIA	Primary taxiway	25 by 25	1149	20-22-	6		н				m				-						66		8	Excel-
T2A	Taxiway 7	25 by 25	234	33	6						2		-		-	-				-	86	-	66	Excel- lent
T3A	Taxiway l	25 by 25	291	55							н		-	-		-	-				86		66	Excel-
T84	Taxiway 8	25 by 25	109	18-22			-1								-						8:		8	Excel- lent
T9A	Taxiway 9	25 by 25	147	18-22	CU	9															8		86 86	Excel- lent
TIOA	A SAC parking apron and extension taxiway	25 by 25	333	20-22-		1															8		Ø A	Excel- lent
8	REMARKS:																							
۳	LEGEND: LONG TRAN DIAGG NORM SHAT KEYER	LONGITUDINAL CRACK TRANSVERSE CRACK DIAGONAL CRACK CORNER BHEAK SHATTERED SLAB	ACK ACK		まのトラフ◆	SHRINKAGE CRACK SCALING SPALL ON TRANSVERSE JOINT SPALL ON LONGITUDINAL JOINT CORNER SPALL SETTLEMENT	GE CRA	CK VSVERSE SITUDINA	JOINT TOON	-	2000	MAP CRACKING PUMPING JOINT POP-OUT UNCONTROLEE CONTRACTION	MAP CRACKING POMPING JOINT POP-OUT UNCONTROLLED UNCONTROLLED TO CRACKING	RACK										

(3 of 4 sheets)

WES FORM NO. 2004 COPY AVAILABLE TO DDG DOES NOT PERMIT FULLY LEGIBLE PRODUCTION

DAT	DATE: November 1972				SL	SUMMARY OF	N OF	DATA	1	IGID	PAVE	RIGID PAVEMENT CONDITION SURVEY	CON	DITIO	SC	RVEY					A IRF IE.	A RF ELD: Mather AFF	AFT	
	FEATURE	SLAB	АРРЯОХ	PAVE.					o N	OF.	ABS (SLABS CONTAINING INDICATED DEFECTS	NING	NDICA	TED D	EFECT					\$ 04 \$1.488	S SLABS NO	9	-
o z	DESIGNATION	3 1 4	St. ABS	ż	-	ı	/	٥	*	¥	1	S	Ь	7	7	\$	Σ	۵	0	٥			the second second	
T4B	SAC alert taxiway	25 by 25	520	21	757	Ħ					37			22			15		rd.		8	8.	Very	20.50
111B	B SAC nose dock B taxiway	25 by 25	141	15	96	98	-	m			0		п	m			30				1,9	25	Poor & failed	r to
ALB	SAC parking apron and extension	25 by 25	2664	18	405	16	-t	1	m		23		9				34		8		83	ळं	Very	in 10
AIIB	(201-209)	25 by 25	644	21	18	0.	-				30								-		84	8.	Excel- lent	el-
A6B	SAC nose dock access aprens	25 ty 25	334	15	135	10			9		31						52				94	95	Foor to falled	r to
A 978	Warm-up apron 1	25 by 25	183	50	4	CV.		1											Q.		8.	18.	Excel-	-t
ALO	Alom Warm-up apron 5	25 by 25	7772	50		н									н				-		9,	86	Excel- lent	el-
A7B	Warm-up apron 2		59	10	7	8	1	1			0				T				н		78	8	Very	270
A8B	Warm-up apron 3		199	1.0	9	9		-1					1								93	8.	Excel- lent	-1-a
RE	REMARKS: * A majori	A majority of the slabs in the	slabs i		stub a	stub area had light map cracking.	1 11gh	тар	cracki	ng.														
LE	LEGEND: LONGI	LONGITUDINAL CRACK TRANSVERSE CRACK DIAGONAL CRACK CORNER BREAK SHATTERED SLAB	ACK ACK		\$ 0 D 7 7 4	SHRINKAGE CRACK SCALING SPALL ON TRANSVERSE JOINT SPALL ON LONGITUDINAL JOINT CORNER SPALL	GE CR.	ACK NSVERSI SITUDIN	E JOINT	E	2000	MAP CRACKING PUMPING JOINT POP-OUT UNCONTROLLED CONTRACTION CRACK TO CRACKING	MAP CRACKING PUMPING JOINT POP OUT UNCONTROLLED CONTRACTION OF CRACKING	CRACK										
N LAN			1	-	- 1	SET LEMEN	MEN	-	-	-	-	-		-	-		-	-	-				100	7

WES FORM JUN 1972

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Table 6

SUMMARY OF PAVEMENT EVALUATION

Particle	ž	MONTH: Pebruary YR: 1973	1973				TRIC	TRICYCLE ARRANGEMENT	SEMENT				BICYCLE	
Primary runway, Organity 155,000+ 155,000+ 155,000+ 200,000+ 31		FEATURE	PAVEMENT OPERATIONAL	SINGLE 100-PSI TIRE PRESSURE	SINGLE 100-SQ-IN, CONTACT AREA	SINGLE 241-5Q-IN. CONTACT AREA				TW 44-IN, C-C 630-50-IN. CONTACT AREA EACH TIRE	TWIN TANDEM 33 IN . 46 IN. 206-5Q-IN. CONTACT AREA EACH TIRE	C-SA GEAR CONFIGURATION	SPCG 37-62-37 267-59-IN. CONTACT AREA EACH TIRE	REMARKS
Markey ranged, 155,000+ 155,000+ 155,000+ 200,000+ 310,000 330,000+ 360,	NO.		400	-	2	6	4	2	9	7	æ	đ	01	
Primary runway, Gapecity 155,000+ 85,000+ 155,000+ 220,000+ 320,000+ 320,000+ 380,000+ 800,00	RIPA		Capacity	155,000+	85,000+	155,000+	220,000+	-500,000 +	310,000	330,000+	380,000+	900,00 0	000,004	
Primary runway Capacity 155,000+ 85,000+ 155,000+ 220,000+ 330,000+ 330,000+ 380,000+ 800,	RIIB			155,000+	85,000+	155,000+	\$20°,000+	+000 , 000	320,000	330,000+	380,000+	900°,000+	420,000	
Primary runway Capacity 155,000+ 85,000+ 155,000+ 220,000+ 330,000+ 330,000+ 380,000+ 800,000+ 100-ft 100-f	R3C R1OC		Capacity	155,000+	85,000+	155,000+	-550,000+	500°,000+	330,000+	330,000+	380,000+	800,000+	4,90,000	
	R4C R8C	Frimary runway interior; 100-ft center, sta 140-00 to 150-60 sta 206-70 to 211-50, and sta 211-50 to 215-90	Capacity	155,000+	85,000+	155,000+	520,000+	500,000+	330,000+	330,000+	380,000+	800,000 +	200,000	

(1 of 3 sheets)

*ES FORM NO. 999 EDITION OF AUG 1800 ISOBOLETE.

JUNE 1972 + Sign denotes allowable gross loading greater than maximum gross weight of any existing aircraft having indicated gear configuration.

(a) denotes allowable gross loading less than minimum gross weight of any existing aircraft having indicated gear configuration.

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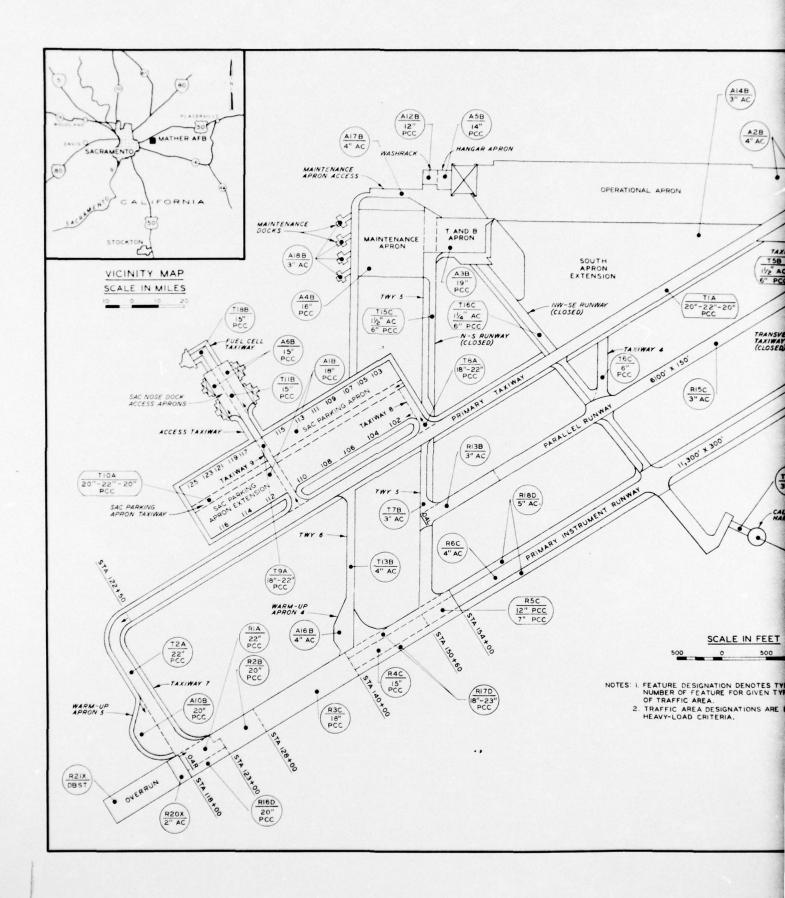
Table 6 (Continued) SUMMARY OF PAVEMENT EVALUATION

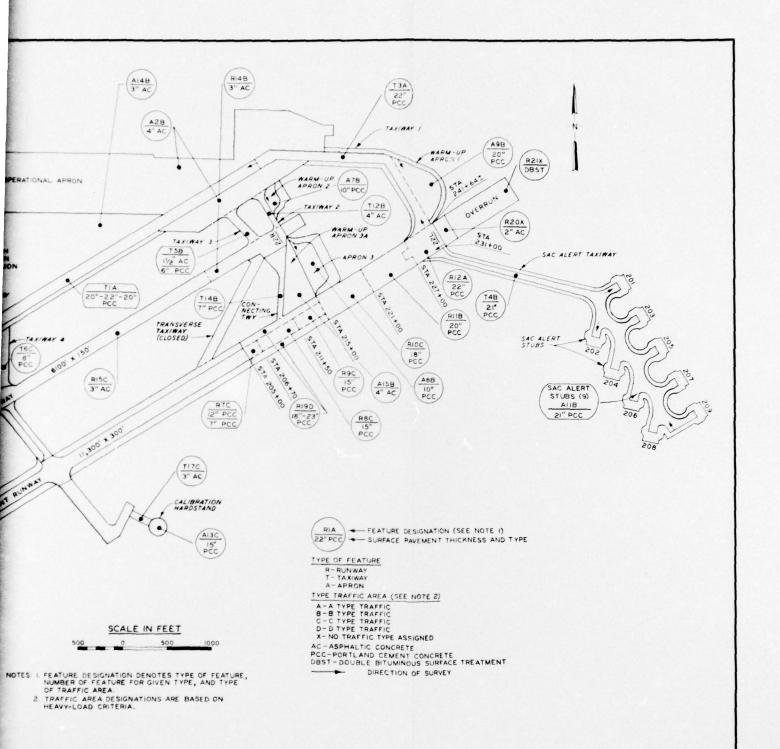
2	MONTH: February YR: 1973	973				TRIC	TRICYCLE ARRANGEMENT	EMENT				BICYCLE	
	FEATURE		319W3	E CONS	375865	TW 28-IN.	SINGLE TANDEM	T# 37-1N, C-C	T# 44-IN, C-C	TWIN TANDEM	C.5A	TRIN TRIN SPC6 3742-37	
		OPERATIONAL	100-PSI TIRE PRESSURE	TOD-SQ-IN.	241-50-IN. CONTACT AREA	226-SQ-IN. CONTACT AREA EACH TIRE	400-5Q-IN. CONTACT AREA	267-59-IN. CONTACT AREA EACH TIRE	CONTACT AREA EACH TIRE	ZDB-SQ-IN. CONTACT AREA EACH TIRE	CONFIGURATION	Z67-50-IN. CONTACT AREA EACH TIME	REMARKS
NO.	DESIGNATION	1	-	2	6	4	20	9	7	æ	đi	10	
COPY A	Primary runway interior; 100-ft center, sta 150+60 to 154+00, sta 205+00 to 206+70	Capacity	155,000+	85,000+	155,000+	220,000+	200,000+	300,000	330,000+	380,000+	800,000+	700,000	
VALLA	Primary runway interior: 100-ft center, sta 154-00 to 205+00	Capacity	155,000+	85,000+	155,000+	220,000+	+000,002	330,000+	330,000+	380,000+	800,000+	250,000	
are to the second	Primary taxiway Taxiway 7 Taxiway 1 SAC parking apron and extension taxiway	Capacity	155,000+	85,000+	155,000+	520,000+	500,000+	310,000	330,000+	380,000+	800,000+	000,004	
48E	Taxiway 8 Taxiway 9	Capacity	155,000+	85,000+	155,000+	+000,032	500°,000+	230,000	295,000	380,000+	800,000+	340,000	
TAB	SAC alert taxiway	Capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000	330,000+	380,000+	800,000+	430,000	
Alb	SAC parking apron	Capacity	155,000+	85,000+	155,000+	220,000+	500,000+	275,000	330,000+	380,000+	800,000+	360,000	
AITB	SAC alert stubs (9)	Capacity	155,000+	85,000+	155,000+	220,000+	200,000+	330,000	330,000+	380,000+	900,000+	430,000	
A9B A10B	Warm-up aprons	Capacity	155,000+	85,000%	155,000+	220,000+	200,000+	320,000	330,000+	380,000+	800,000+	1,20,000	
R13B	Parallel runway lst 1000 ft, OdL end lst 1000 ft, 22R end	Capacity	35,000	30,000	95,000	65,000	105,000	110,000	145,000	170,000	430,000	(8)	
R15B	Parallel runway interior OML-22R	Capacity	20,000	35,000	80,000	85,000	135,000	145,000	165,000	220,000	580,000	(a)	
TLZB	Taxiway 2	Capacity	η3,000	41,000	(a)	58,000	76,000	62,000	(a)	(8)	(8)	(8)	

Table 6 (Continued)
SUMMARY OF PAVEMENT EVALUATION

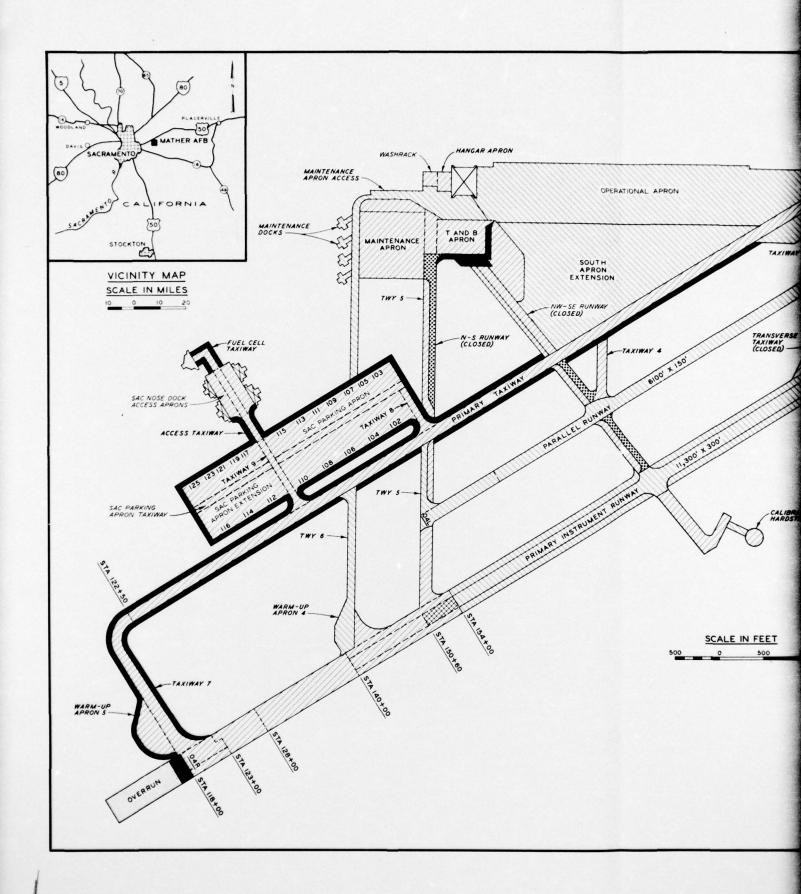
State Stat		MONTH: February YR: 1973	1973				TRIC	TRICYCLE ARRANGEMENT	EMENT				BICYCLE	
No. DESIGNATION USE		FEATURE	PAVEMENT	SINGLE 100-PSI TIRE PRESSURE	SINGLE 100-SQ-IN. CONTACT AREA				TH 37-IN, C-C 267-50-IN, CONTACT AREA	T# 44-IN. C-C 630-5Q-IN. CONTACT AREA	TWIN TANDEM 33 IN 46 IN. 208-50-IN. CONTACT AREA	C-SA GEAR CONFIGURATION	. 3	
TTE Taxieng 5 Capacity 35,000 30,000 55,000 105,000 110,000 110,000 Parking Parking South operational aron South operational aron South operation	z		USE	-	6		EACH TIME	-	EACH TIRE	EACH TIRE	EACH TIRE		EACH TIRE	
A2B Operational Capacity 45,000 40,000 55,000 110,000 90,000 agron (original groun criginal strong 55,000 40,000 60,000 85,000 105,000 85,000 tional agron capacity 155,000 85,000 125,000 220,000 20,000 330,000 34B Maintenance Capacity 155,000 85,000 125,000 220,000 330,000 330,000 agron capacity 155,000 155,000 125,0	TT		Capacity	35,000	30,000	55,000	65,000	105,000	110,000	145,000	170,000	430,000	(B)	
Alb South operation	AS		Capacity	145,000	000,04	55,000	80,000	110,000	000,00	130,000	130,000	370,000	(a)	
AB Maintenance Capacity 155,000+ 85,000+ 280,000+ 200,000+ 290,000 AB Maintenance Capacity 155,000+ 85,000+ 155,000+ 330,000+ 3400n	A1		Capacity	25,000	000,04	000,09	85,000	105,000	85,000	(a)	(a)	(8)	(a)	1
AiB Maintenance Capacity 155,000+ 85,000+ 220,000+ 330,000+ 390,000+ apron	A3		Capacity	155,000+	85,000+	155,000+	520,000+	200,000+	290,000	330,000+	380,000+	800,000+	380,000	
			Capacity	155,000+	85,000+	155,000+	-520,000+	200,000+	330,000+	330,000+	380,000+	800,000+	1460,000	

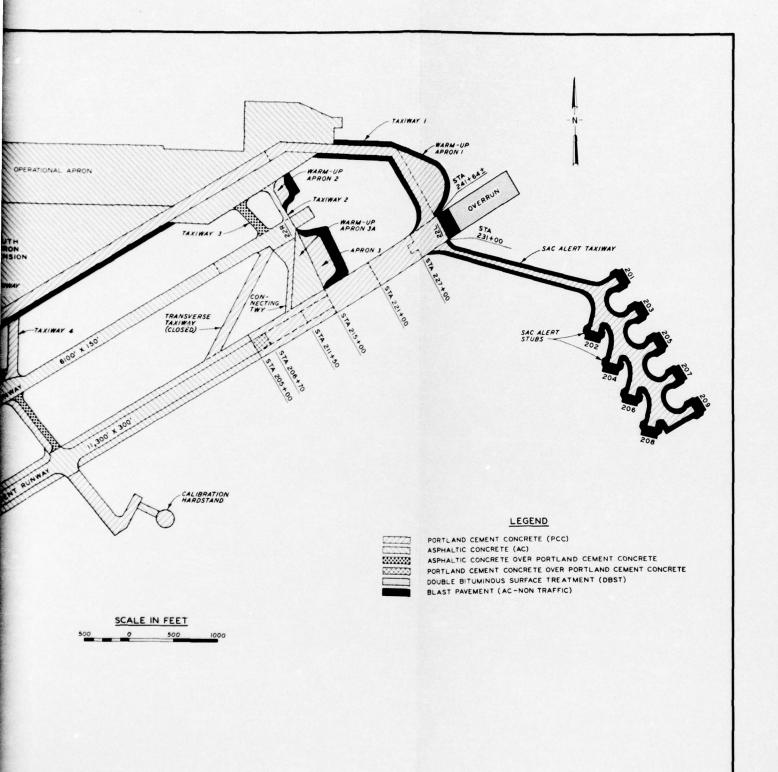
COPY AVAILABLE TO DDG DOES NOT PERMIT FULLY LEGIBLE PRODUCTION





AIRFIELD LAYOUT





PAVEMENT PLAN