ORDER

6560.23

RUNWAY VISUAL RANGE (RVR)
PROGRAM MANAGEMENT PLAN
PROJECT IMPLEMENTATION PLAN

August 10, 1988

DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

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FOREWORD

This order provides management direction for the planning, implementation, and acceptance of the Runway Visual Range (RVR) system into the national Airspace System (NAS). It defines the major functional responsibility levels within the FAA for the procurement and implementation of the RVR program.

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CHAPTER 1. GENERAL

1. PURPOSE. This order serves as both a Program Management Plan (PMP) and a Project Implementation Plan (PIP) and provides technical guidance and direction for implementing the new generation Runway Visual Range (RVR) system into the National Airspace System (NAS).

2. DISTRIBUTION. This order is distributed to: branch level in the Program Engineering Service; division level in the Systems Maintenance, Air Traffic Operations, Air Traffic Plans and Requirements, Automation, Acquisition and Materiel Services, Office of General Counsel, Office of Programs and Regulations Management, Office of General Counsel, and Office of Budget in Washington Headquarters; to branch level in the regional Airway Facilities, Air Traffic, Flight Standards and Logistics divisions; and to division level at the Facility Support Division, FAA Academy and FAA Depot at the Mike Monroney Aeronautical Center.

3. RESERVED.

CHAPTER 2. PROJECT OVERVIEW

20. SYNOPSIS. The new generation RVR project consists of procuring and implementing RVR equipment specified in FAA-E-2772 Amendments I through 3. Implementation consists of replacing existing equipment with new equipment, and establishing new RVR sites. Unlike the old transmissometer RVR systems, the new generation RVR system will incorporate a single point visibility sensor. The system will be more modular than existing RVRs and capable of operating in a greater variety of configurations at different locations throughout the NAS.

21. PURPOSE. The purpose of the new generation RVR project is to procure and implement a new generation RVR capable of supporting ILS/MLS Category I, II, III a/b landing and takeoff operations. The new generation equipment wi11 decrease the maintenance load the outdated equipment imposed, reduce installation difficulties associated with the current system design, and provide for easier and less costly future expansion capabi1ity. New generation RVR hardware will replace all existing NAS RVR and Runway Visibility Value (RVV) systems, and satisfy all new RVR establishment requirements commencing with the FY84 budget year requirements.

22. HISTORY.

a. The present RVR population is comprised of four generations of RVR equipment existing in a variety of tube-type and solid-state configurations. Sixty-two percent of the total population is equipment of the most recent generation, The Tasker 500, and 88 percent is solid-state equipment. These systems are maintenance-intensive and have limited expandability. The RVRs in use today are based on 30-year-old technology and have served their purpose well; however, the requirement for increased performance capability, i.e., from CAT IIIa to CAT IIIb, and the reduction in agency resources both fiscally and physically have spawned the need for increased performance at reduced maintenance costs.

b. Technology has advanced to the extent that new state-of-the-art sensors capable of replacing the existing visibility sensors have become available. This program represents the culmination of many efforts incorporating state-of- the-art technology, new system design philosophy, and new agency maintenance concepts resulting in the new generation RVR system.

23.-29. RESERVED.

CHAPTER 3. PROJECT DESCRIPTION

30. FUNCTIONAL DESCRIPTION. The RVR system generates instrumentally measured RVR information provided to pilots prior to takeoff and landing. The information represents the horizontal distance a pilot can see down an instrument runway. The RVR system is comprised of visibility sensors, an Ambient Light Sensor (ALS), Runway Light Intensity Monitors (RLIMs), Sensor Interface Electronics (SIEs), a Data Processing Unit (DPU), displays, and a System Console (SC) (figure 3-1).

a. Sensors. The atmospheric scatter coefficient, ambient light level, and runway edge and centerline light setting levels are measured by the visibility sensor, ALS and RLIM, respectively.

b. Sensor Interface Electronics. All sensor output signals are acquired by SIEs, and then digitized, processed, formatted, and transmitted as a single data stream to the DPU.

c. Data Processing Unit. The DPU accepts and reduces data, implements algorithms, and continuously distributes the RVR product (RVR visibility data, runway light intensity levels, and trend information) to controller displays and external interfaces. The DPU is also responsible for maintaining real time, archiving, system control, and maintenance diagnostic and reporting functions.

d. Controller Displays. The controller displays receive incoming serial data streams from the DPU, perform error checks, format and display RVR visibility values, trend information, and runway light setting levels for controller-selected runways. The displays issue both audio and visual alarms when an RVR value decreases below preset alarm limits or when a failure occurs.

e. System Console. A SC consisting of a display, microprocessor, and keyboard is used by a qualified maintenance technician to monitor the system status and output, reconfigure, and initialize the system.

31. PHYSICAL DESCRIPTION. The RVR system is a flexible and modular system capable of operating at different locations throughout the NAS, in a variety of configurations. It operates continuously with high reliability, and is optimized for maintainability, simplicity, energy efficiency, and ease of installation consistent with FAA requirements.

a. Visibility Sensor. The visibility sensor is compact, lightweight, and can be easily serviced or removed and transported by one individual. It is installed at a single point along the runway, and can be calibrated at its installed site or indoors. The visibility sensor and its corresponding SIE have one output port to the DPU.

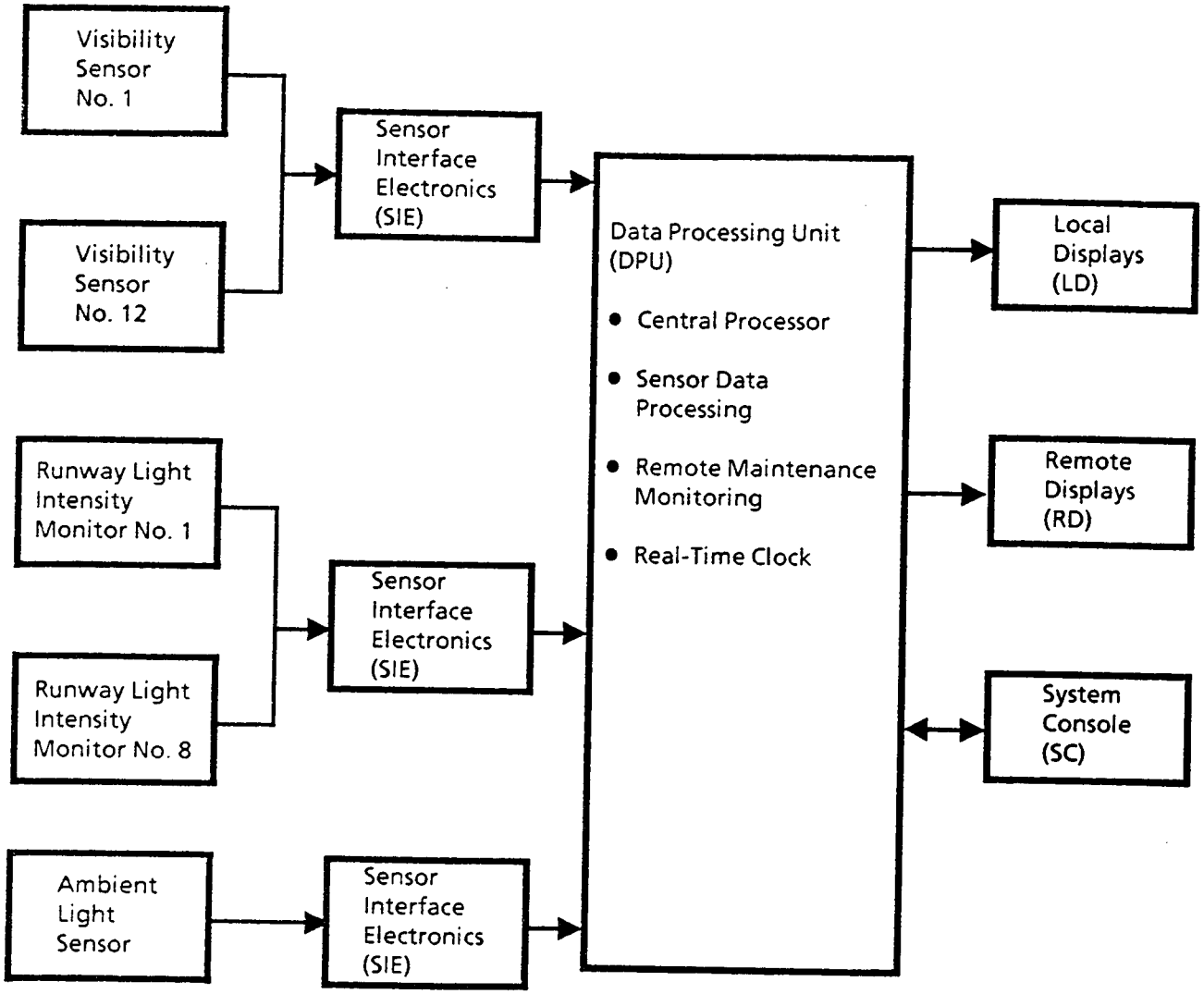

FIGURE 3-1. RVR SYSTEM

b. Ambient Light Sensor. The ALS views the luminance of the north horizon sky six degrees above the horizon, with a six-degree field of view. The ALS, with its corresponding SIE, has one output port to the DPU.

c. Runway Light Intensity Monitor. The RLIM consists of current loop sensor devices, SIEs, and cable to connect the current loop sensor devices to the SIE which may be located up to 75 feet apart. One RLIM is designed to measure the current of the runway edge light and/or centerline light circuit. The RLIM SIE is modular to incorporate inputs from up to four current loop sensors. The RLIM SIE has one output port to the DPU. In some locations, the runway edge lights are split into two separate current loops. In these cases, the RLIM must measure both current loops, and verify that each loop is on the same step setting.

d. Sensor Interface Electronics. SIEs may be an integral part of the sensor, or they may be in a separate package, co-located with the sensor.

e. Data Processing Unit. The DPU is designed for mounting in a standard FAA enclosure per FAA-G-2300, Electronic Equipment Requirements. It has input ports for up to 12 visibility sensors, one AIS, eight RLIMs, and one external coded time source. Its output ports consist of two for local controller displays, two for remote controller displays, and one for the Tower Control Computer Complex (TCCC). Control input/data output ports consist of one port to the maintenance data terminal, one to the remote maintenance monitoring system, one to the SC, four ports to external system users, and two for undesignated locations. The DPU has a 50 percent expansion capability for each of the above-defined data ports, i.e., additional visibility sensor input ports.

f. System Console. The SC display is a nominal, 12-inch diagonal display suitable for either stand-alone or console installation. The SC has a keyboard control for data input/output interface to the DPU. The SC will be used to initialize the RVR system with site-specific data.

g. Controller Displays. The controller display will be a single unit. In order for the display to be compatible with most of the existing RVR display installations (the Tasker 500s), the front panel mounting size is no bigger than 7 inches high by 10 inches wide, and the electronics compartment attached to the display panel is not larger than 5.75 inches high x 8.75 inches wide x 9.0 inches deep. The display is designed for direct DPU connection for distances up to 2000 feet or, through modems, to remote sites. Each controller display has dual communication ports for receiving separate identical RVR product sets from the DPU. Up to 26 displays may be connected to a communications line.

32. SYSTEM REQUIREMENTS. RVR system requirements include power, expandability, reliability, and maintainability considerations. Communications, modularity, and service life are also design considerations of the system.

a. Power Requirements. The RVR equipment operates on commercial power sources (120/240 V ± 15 percent, 60 Hz ± 3 Hz, single phase) in addition to individual battery power conditioning systems (for back-up power) powering sensors and sensor electronics to protect against power surges and short-term outages.

b. Communications. Unless stated otherwise, the RVR equipment's interface is via asynchronous serial RS-232 ports, 2400 BPS or higher with selectable baud rate using a subset of ANSI x3.66 protocol standard.

c. Modularity. The RVR system is modular to permit a variety of configurations for meeting site-specific requirements and to facilitate fault isolation and faulty component removal and replacement. Each assembly is removable from its chassis without requiring complete removal of any other subassembly, and hardware is mounted in rack units with slides for easy withdrawal for servicing.

d. System Expandability. The RVR system has the capability to have the software/firmware expanded by up to 50 percent of the total lines of code initially implemented and has the capability for a 50 percent growth in its functional capabilities.

e. Maintainability. Ninety percent of all on-equipment, on-site repairs to RVR systems will not exceed one hour when performed by one qualified and experienced technician. The on-equipment, on-site maintainability requirement (MITR) for the RVR system and its components does not exceed 30 minutes, with a 90 percent confidence level.

f. Reliability. The predicted reliability requirement for the RVR system is 5000 hours MTBF. All RVR equipment complies with the requirements of MIL- STD-785 and MIL Handbook 217, and fulfills the requirements of FAA Order AF 6000.10, Airway Facilities Service Maintenance Program.

g. Maintenance Concept. RVR equipment is designed to meet the requirements of FAA Order AF 6000.10, Airway Facilities Service Maintenance Program. The RVR system maintenance concept, as a minimum, includes capabilities for automated continuous monitoring, on-site module replacement, remote control and status monitoring, automated recordkeeping, remote diagnosis and fault location, and remote system configuration. The RVR system complies with the Operational Requirements for RMMS, NAS-MD-792, and is in accordance with the latest FAA Orders (6000.26A, 6000.27A, and 6000.30), Airway Facilities Service Policy Decisions for the Maintenance Programs of the 1980's, Reliability and Maintainability Policy, and the Transmittal of Maintenance Philosophy Steering Group (MPSG) Report.

h. Service Life. The operating service life of an RVR system is designed to be 20 years with normal maintenance and replacement of failed parts.

i. Lightning/Surge Protection. The RVR design is required to incorporate lightning/surge protection in accordance with FAA Standards -019 and -020.

33. INTERFACES. The RVR system interfaces with the external systems shown in Figure 3-2.

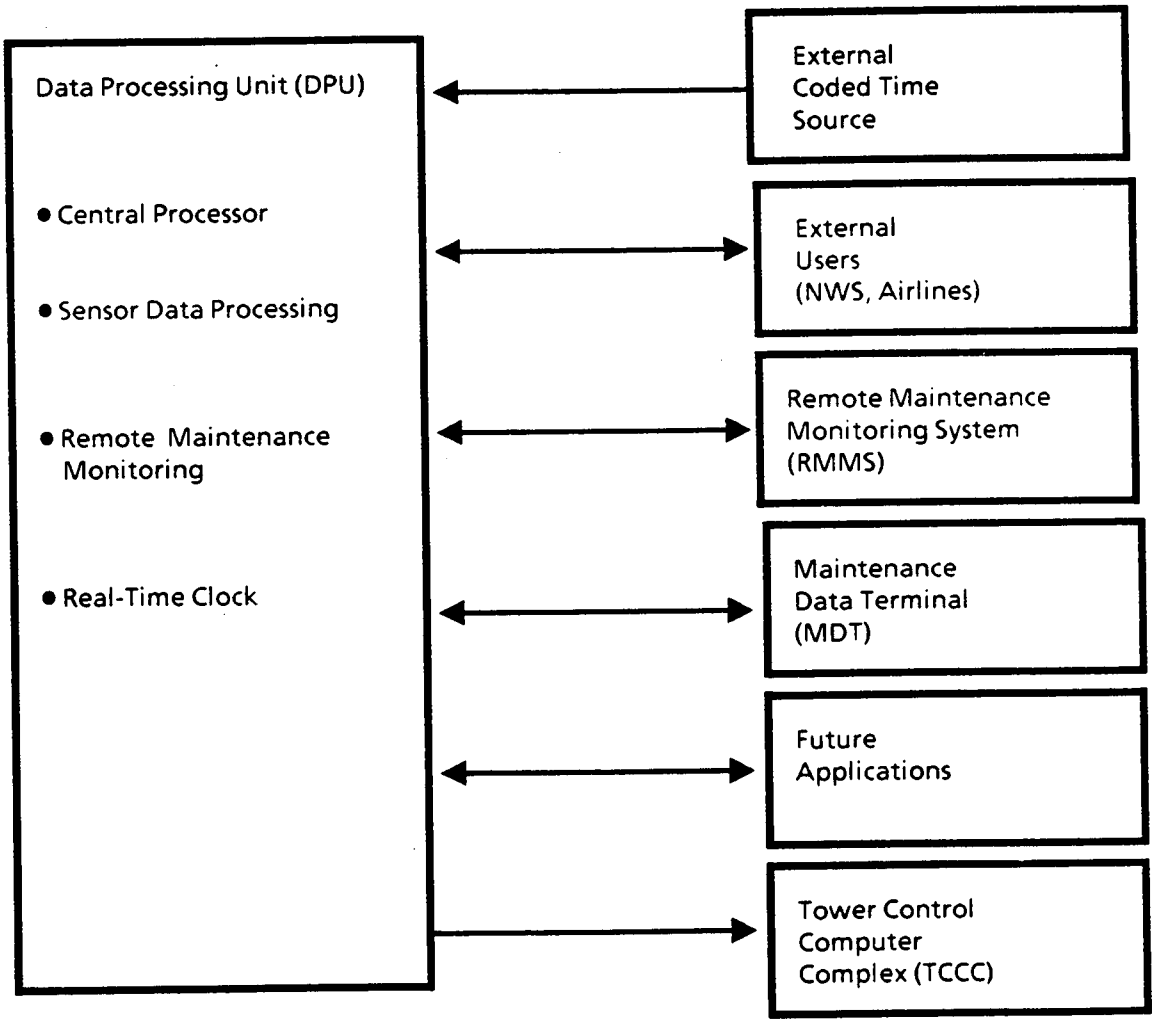

FIGURE 3-2. RVR EXTERNAL INTERFACES

a. Remote Maintenance Monitoring. The Remote Maintenance Monitoring System (RMMS) remotely monitors the RVR to detect actual and potential subsystem or system problems and failures. The RMMS provides the capability to automatically and remotely control monitoring of RVR subsystem performance and ccmmunications, record site data and support fault diagnostics. An alarm
or alert is generated when a failure occurs and a maintenance warning is generated to inform the user of an impending failure. RMM signals from the RVR subsystems are transmitted to and collected by the RVR RMS in the DPU for transmission to the Maintenance Processor Subsystem (MPS) of the RMMS. One control input/data output port is available for the interface. The RMMS interface is a two-way interface.

b. Maintenance Data Terminal. The RVR RMS in the DPU provides a two-way interface to the portable Maintenance Data Terminal (MDT) used by maintenance personnel for on-site RVR maintenance activities. The RVR RMS includes a communications mode which provides for the routing of messages between the MDI and MPS. The protocol employed on the MDT/DPU interface is ANSI x3.28, subcategories DI and 2.5. Maintenance personnel use the MDT to request RVR status, retrieve products and archived data, perform system diagnostics, and initialize and reconfigure the RVR system.

c. Coded Time Source. The DPU synchronizes its internal clock with an external coded time source to maintain real time in Universal Coordinated Time. The DPU clock function can be adjusted remotely (RMMS) or from the on-site SC to the correct time. This interface is compatible with the standard IRIG E Code format.

d. Future Applications. Two control input/data output ports are available for future applications.

e. Tower Control Computer Complex. In the future, the RVR System will distribute its product to the TCCC which will be located in most ATCTs. The TCCC will display the products to the controllers for subsequent dissemination to pilots. The RVR interface to the TCCC is described in NAS-IR-31032201, RVR/TCCC Interface Requirements Document. When the TCCC becomes operational, there will be no further need for the RVR individual displays.

f. External System Users. Four control input/data output ports are available to external system users such as airlines and the National Weather Service. A Telco dial-up capability has been incorporated in this interface group for possible future use.

34.-39. RESERVED.

CHAPTER 4. PROJECT SCHEDULE AND STATUS

40. PROJECT SCHEDULES AND GENERAL STATUS. Table 4-1 represents the production strategy for the new generation RVR system procurement. Two basic systems with their maximum complement of RVR system elements will be used for design qualification testing by the contractor. The RVR contractor will conduct reliability demonstrations using 15 basic systems and other ancillary system elements. Site preparation will be accomplished by the FAA. Equipment installation, hook-up, and test will be accomplished by the RVR contractor. An RVR contractor-developed test plan for the reliability demonstration, approved by the program office, will be furnished to the regions. These demonstrations will take place at the 14 sites specified in chapter 8. After successful completion of these tests, production will continue as shown in table 4-1. Two options for additional RVR equipment may be exercised by the FAA; the first is shown below while the second is an option to procure RVR systems for the military. FAA regional personnel will install all production RVR systems.

TABLE 4-1. PRODUCTION SCHEDULE

PRODUCT	Testing Des. Qual.	Testing Re1. Demo.	Continuing Production	Opt. 1	Total
Basic RVR System	2	15	112	47	176
Sensor Package	22	62	62	30	176
RLIM	14	22	10	13	59
Displays	12	123	377	188	700

41. MILESTONE SUMMARY SCHEDULE. The current project schedule is shown in table 4-2. Project events are scheduled in relationship to the date of contract award (DOA). The new generation RVR procurement strategy is one of full and open competition and will utilize the SEB process. This procurement approach provides the FAA the flexibility of negotiating both cost and technical considerations to achieve a new generation RVR satisfying all performance, maintainability, and reliability requirements at a minimum life-cycle cost.

TABLE 4-2. CURRENT PROJECT SCHEDULE

Event	Date	Months After Contract Award
Solicitation Issued	5/87	-
Cost/Technical Review Completed	12/87	-
Contract Award	6/88	DOA
Preliminary Design Review	2/89	DOA + 8
Critical Design Review	8/89	DOA + 14
First System Delivery (Reliability Demo. Site)	7/90	DOA + 18
First System Delivery (DEPOT)	7/90	DOA + 25
First ORD Completed	10/90	DOA + 28
Last System Delivery (DEPOT, without option 1)	7/91	DOA + 37
Last System Delivery (DEPOT, with option 1)	2/92	DOA + 42

42. INTERDEPENDENCIES AND SEQUENCE. RVRs are implemented to support ILS/MLS precision approach and landings; thus, RM requirements are dependent upon ILS installations for Category I, II, and III a/b operations. Category I requirements for a touchdown RVR must meet and be justified through criteria contained in FAA Order 7031.2C, Airway Planning Standard No.1. Category II and III a/b RVRs are automatically justified following the determination that a selected precision approach runway is to be upgraded to CAT II or CAT III a/b operation. Other ground equipment is necessary, both FAA-furnished and sponsor- furnished, and must be in place or expected in place coincidental with the RVR implementation to support the increased demands of Category II or III a/b operations. These are defined in FAA Order 6750.24A.

43. NEW GENERATION RVR SYSTEM LOCATIONS. New generation RVR system locations are assembled in Appendices 1-9. Each airport budgeted to receive new equipment is represented with a runway layout and descriptions of existing and required new generation RVR system equipment. Each runway to be modified has been identified with an implementation category and fiscal year funding. Table 4-3 lists the number of airports per region budgeted to receive new generation RVR equipment, number of visibility sensors (RVRs) required per region, and the number of runways per region at which sensors will be installed.

TABLE 4-3. NUMBER OF AIRPORTS AND RUNWAYS RECEIVING NEW GENERATION RVR EQUIPMENT

Region	No. of Airports	No. of Sensors Required	No. of Runways
AAL - Alaskan	12	16	12
ACE - Central	15	24	17
AEA - Eastern	47 (+ 1 TRACON)	86	56
AGL - Great Lakes	47	91	60
ANE - New England	15	27	16
ANM - Northwest Mountain	32	52	39
ASO - Southern	55	116	70
ASW - Southwest	32	67	43
AWP - Western Pacific	29	49	34

44. RVR SYSTEM IMPLEMENTATION CATEGORIES. New generation RVR systems will satisfy all budgeted requirements starting with the FY84 budget and budgeted for in three categories.

a. Modify. Two classifications of action fall within the modify category. The first action is to convert RVV systems to RVR systems by adding an RVR computer and light references necessary to provide the more precise RVR value. The second modify action is replacing obsolete RVR systems (Tasker 400 and SSR) with Tasker 500 systems. Both these original budgeted actions will be completed using new generation RVR systems in lieu of Tasker 500 systems.

b. Establish. The RVR establish category responds to requirements to provide new touchdown RVR systems at locations that meet the benefit/cost criteria contained in Airways Planning Standard No. 1. This will be satisfied with new generation RVR equipment.

c. Category IIIb. The establishment of category IIIb RVR systems responds to new operational requirements for RVR that cannot be met with the present RVR systems.

45. RVR SYSTEM ELEMENTS. RVR equipment has been identified under four separate NSN categories to fulfill specific requirements of each airport or TRACON location. The system is capable of supporting four fully instrumented runways (12 visibility sensors), or any combination thereof, at a single location.

a. Basic RVR System. (NSN 8200-00-540-26961). The basic RVR system consists of a visibility sensor, DPU, ALS, RLIM, SIEs, and an SC. Also included is a complete set of system cables with connectors, a visibility sensor calibration device, and spare parts kits for each RVR subsystem. The basic RVR system contains all hardware requirements, except for displays, necessary to establish the first RVR requirement at a new airport location. Once a basic system has been installed, expansion capability is accomplished through the installation of additional visibility sensors, RLIMs, and displays as required.

b. Sensor Package. (NSN 8200-00-540-27001). An RVR sensor package includes a visibility sensor, its SIEs, and system cables and connectors. This package is procured to establish multiple sensors at an airport location (i.e., adding a rollout RVR or touchdown RVR on a different runway). A maximum of 12 sensors can be accommodated by the DPU.

c. Runway Light Intensity Monitor. (NSN 8200-00-540-26991). An RLIM is required for every runway with a visibility sensor. A maximum of eight monitors can be accommodated by the DPU. A current loop sensor device, SIEs, and a set of system cables with connectors comprise the RLIM package.

d. Displays. (NSN 8200-00-540-26971). Displays may be procured on a site specific basis, depending on the number of operating positions in a tower cab or TRACON. Displays are identified as being located in an ATCT, TRACON, NWS facility, or at other locations subject to conformance to agency policy. If a separate power supply is used, a set of system cables with connectors will be packaged with the display.

46.-49. RESERVED.

CHAPTER 5. PROJECT MANAGEMENT

50. PROJECT MANAGEMENT, GENERAL. This section describes the organizations within the Program Engineering Service (APS) directly responsible for RVR project management. RVR project management structure is shown in figure 5-1.

a. Program Engineering Service. APS manages, directs, and executes the FAA's airway engineering activities and research and development efforts related to airports, aircraft safety, and aviation security activities to ensure the NAS is efficient, economical, and responsive to operational needs.

b. Navigation and Landing Division. The Navigation and Landing Division (APS-400) is the principal element of the Service for the design, development, and implementation for systems and programs covering navigation and landing systems and facilities requirements in the areas of airborne, cockpit systems, navigation systems, landing systems, and rotorcraft.

c. Current Landing/Lighting Systems Program. The Current Landing Systems Program (APS-440) is the principal element of the division for design, development, and implementation responsibilities for instrument landing systems and landing aids.

d. National Airspace Integrated Logistic Support Management Team (MAILSMT). The MAILSMT team provides technical support to the program management to ensure that logistics support is planned for and integrated throughout the projected acquisition cycle.

e. Runway Visual Range Project. The RVR Project Manager is supported by engineers and an analyst and is responsible for managing the design, development, and implementation activities associated with the new generation RVR. The project manager's duties include:

(1) Management. Planning, scheduling, and managing the RVR project from design through commissioning, logistics support, training, and program completion including maintenance. Responsible for systems engineering, system design, man-machine interface, component design and related functional, technical, and performance characteristics.

(2) Equipment performance. Supporting the System's Maintenance Service (ASM) in the areas of analyzing equipment performance, evaluating field maintenance activities, and making recommendations to improve safety, reliability, maintainability, and supportability of RVR equipment being developed, procured, and installed.

(3) Modernization input. Developing service input for the modernization or in-service improvement of RVR equipment.

(4) Technical Officer. Providing engineering advice and consultation to contracting officer during procurement, serving as technical officer, and reviewing contractor requests and progress payments.

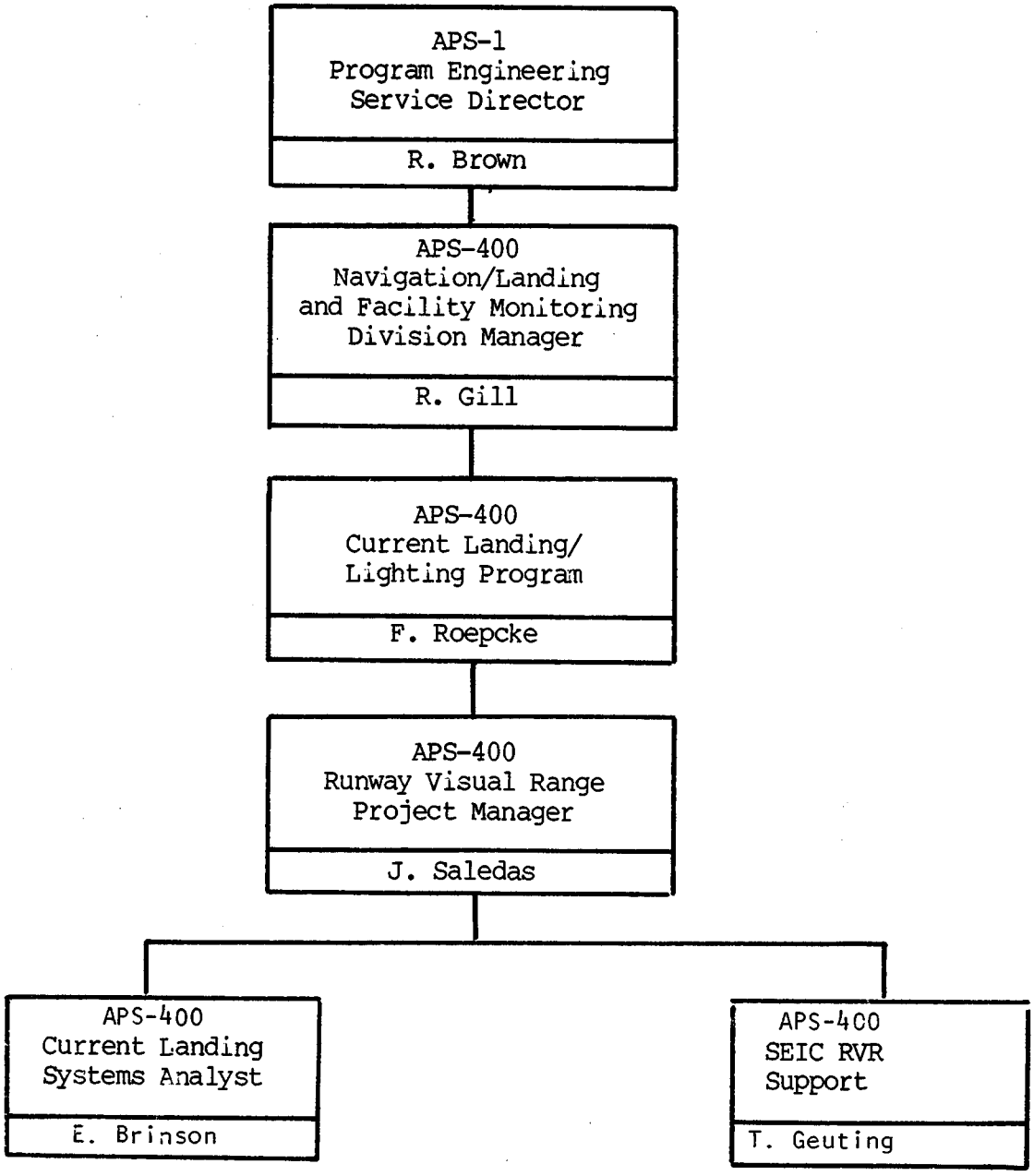

FIGURE 5-1. RVR PROJECT MANAGEMENT

(5) Cost data. Developing and providing cost data, controlling assigned funds, and adjusting program schedules and objectives as necessary.

(6) Maintenance plans. Preparing maintenance plans, identifying training, provisioning and test requirements, and directing the preparation of maintenance technical handbooks.

(7) Testing. Arranging and monitoring field test and evaluation of RVR equipment.

(8) Inventory. Managing in transit material and maintaining currency of material systems and control over facilities and RVR equipment inventory.

(9) Installation. Evaluating installation activities and determining compliance with installation standards, specifications, and operational requirements.

(10) Acceptance. Providing research, engineering, development, design and systems analyses associated with acquisition and acceptance of RVR hardware and software.

51. PROJECT CONTACTS. This paragraph lists RVR project contacts and their addresses.

a. RVR Project Manager. John Saledas, APS-440, Federal Aviation Administration, 800 Independence Avenue, Washington, D.C., 20591, FTS 267-8546, (202)267-8546.

b. RVR Project Analyst. Ellen Brinson, APS-440, Federal Aviation Administration, 800 Independence Avenue, Washington, D.C., 20591, FTS 267-8545, (202)267-8545.

c. RVR SEIC Support. Tom Geuting, SCT, DC1030, 475 School St., S.W., Washington, D.C., 20024, (202)646-5471.

52. PROJECT COORDINATION. The RVR project coordinates with other services within the FAA and divisions within APS. Responsibilities are contained in this paragraph.

a. Maintenance Automation Division. The Maintenance Automation Division (APS-200) is responsible for the design, development, and implementation of the RMMS project. The RVR RMS is a part of the RMMS, and APS-200 provides guidance and documentation to support the RMS development.

b. Systems Maintenance Service. The Systems Maintenance Service has the responsibility to assure that NAS subsystems, when fielded, are provided the appropriate level of maintenance and logistics life-cycle support. Specific responsibilities are:

(1) Technical Standards Program, ASM-120. ASM-120 reviews RVR procurement specifications to ensure the design meets the reliability and maintainability requirements and supports the general maintenance philosophy. ASM-120 also coordinates the integrated logistic support plan developed by the program office and the SEI Contractor for the RVR system acquisition and develops maintenance standards and plans for implementation of maintenance concepts.

(2) Facilities Engineering Program ASM-140. ASM-140 is responsible for 80s maintenance planning and implementation, and participates in the development and review of RVR maintenance plans. The program ensures the RVR project conforms with staffing, training and certification policies, guidelines, and requirements.

(3) AF Workforce Requirements Program, ASM-210. ASM-210 is responsible for ensuring that training plans developed for the AF workforce meet established standards and are properly coordinated and programmed. ASM-210 also participates in the RVR integrated logistics support management team to represent the AF training requirements.

(4) Planning and Budgeting Program, ASM-230. ASM-230 is responsible for ensuring the RVR program adequately defines the AF maintenance staffing requirements for the new and modified subsystems and preparing appropriate staffing standard changes.

(5) Concepts and Policy Program, ASM-240. ASM-240 is responsible for ensuring that RVR maintenance concepts meet established requirements and maintenance policy. ASM-240 is also responsible for assuring that NAILS SEI contract resources are programmed to support the integrated logistics management teams.

(6) Telecommunications Management and Operations Division, ASM-300. ASM-300 is responsible for budgeting for interfacility telecommunication lines once source and destination location are identified.

c. MLS/Lighting Systems Program. MLS/Lighting Systems Program (APS-410) coordinates closely with the RVR Program Office on MLS sites that qualify for and require RVR equipment.

d. Materiel Systems Branch. Materiel Systems Branch (ALG-220) directs the implementation of standards for the management and control of RVR material inventory and supply distribution systems.

e. Pricing Staff. Pricing Staff (AIG-305) performs cost/price analyses of contractor's proposals and participates as a member of the Source Evaluation Board on RVR procurements subject to Source Selection Orders.

f. Communications Branch. Communications Branch (ALG-320) provides procurement support for the new generation RVR program and plans, places, and administers contracts through RVR equipment delivery and installation.

g. FAA Depot. FAA Depot (AAC-400) accepts deliveries of RVR systems by the contractor and manages the dissemination of RVR systems to the regions. AAC-400 is responsible for RVR logistics support.

h. Airway Facilities Branch. Airway Facilities Branch (AAC-940) is responsible for maintenance training and coordinating with ASM-210 in the development of a training plan.

i. FAA Regions. The AF division of each FAA region is responsible for the installation of RVR equipment at airports. The regions are responsible for identifying the interconnecting MPS locations for each RVR installation.

53. PROJECT RESPONSIBILITY MATRIX. Figure 5-2 illustrates the FAA organizations responsible for the implementation of each significant function of the RVR project.

54. PROJECT MANAGERIAL COMMUNICATIONS. The RVR project manager within APS-440 is the focal point for all internal project communication. Organizations supporting the RVR program designate a representative to maintain close communication with the Current Landing/Lighting Systems Program office. Supporting organizations maintain communications with both the contractor and internally within the FAA.

a. Contracting Officer. ALG-320 designates a contracting officer (CO) who is responsible for all contractual matters. The CO is the only individual authorized to approve contract changes impacting price, delivery, or schedule.

b. Quality/Reliability Officer. The Industrial Division (ALG-400) assigns a quality/reliability officer (QRO) at the time the RVR contract is awarded. The QRO is the FAA's representative at the contractor's facility and is responsible for verifying quality control. The QRO is directed by FAA policy and procedure, and by the terms and conditions of the contract.

c. Technical Officer. The RVR project manager of APM-440 is also designated as the RVR Technical Officer (TO), and interfaces with the contractor's representatives.

d. Contractor's Representatives. The contractor designates specific individuals to communicate with those individuals listed above.

55. IMPLEMENTATION STAFFING. Not applicable.

56. PLANNING AND REPORTS. Not applicable.

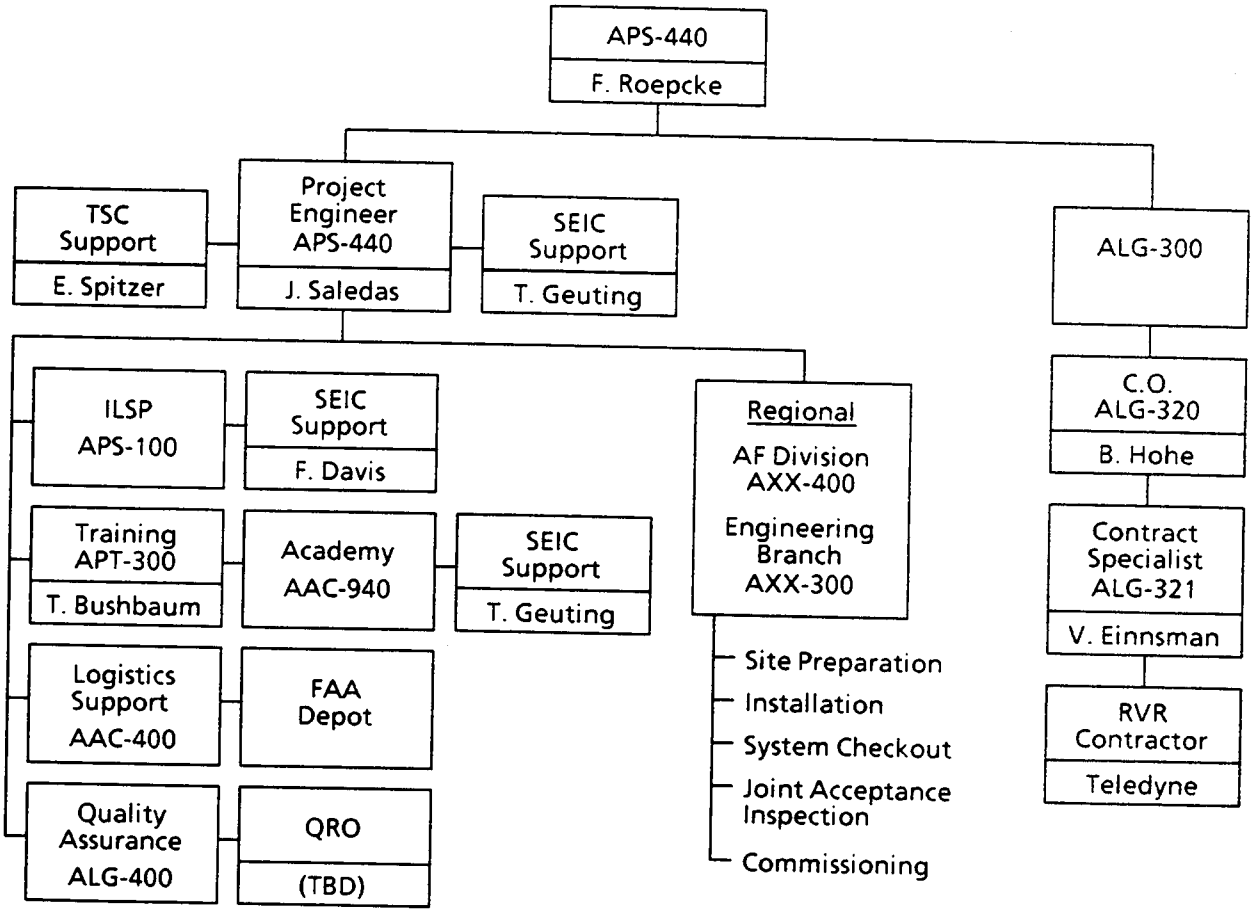

FIGURE 5-2. RVR PROJECT RESPONSIBILITY MATRIX

57. APPLICABLE DOCUMENTS. Within this RVR PMP/PIP, the following documents have been referenced.

a. FAA-E-2772, Amendment 3, Runway Visual Range System Specification, June 23, 1987.

b) FAA-G-2300, Panel and Vertical Chassis, Rack, December 1, 1969.

c) FAA Order 1800.8E, National Airspace Configuration Management, July 11, 1985.

d) FAA Order 4660.1, Real Property Handbook, Chapter 9, Sections 2 and 3, May 11, 1976.

e) FAA Order 6000.10, Airway Facilities Service Maintenance Program, June 3, 1982.

f) FAA Order 6000.26A, Reliability and Maintainability Policy, May 14, 1982.

g) FAA Order 6000.27A, Transmittal of Maintenance Philosophy Steering Group Report, 1983 Update.

h) FAA Order 6000.30A, Policy for Maintenance of the National Airspace System (NAS), January 5, 1987.

i) FAA Order 6030.45, Facility Reference Data File, February, 1987.

j) FAA Order 6750.24A, Instrument Landing System Auxillary Electronic Component Configuration and Performance Requirements.

k) FAA Order 7031.2C, Airway Planning Standard Number One - Terminal Air Navigation Facilities and Air Traffic Control Services, November 15, 1984.

l) MIL Handbook 217, Reliability Prediction of Electronic Equipment, January 15, 1982.

m) MIL-STD-785, Reliability Program for System Equipment Development and Production, September 15, 1980.

n) NAS-IR-31012201, RVR to TCCC Interface Requirements Document, August 17, 1987.

o) NAS-MD-792, Operational Requirements for the RMMS, June 1984.

p) FAA Order 1800.58, National Airspace Integrated Logistics Support Policy, July 2, 1987.

58.- 59. RESERVED.

CHAPTER 6. PROJECT FUNDING

60. PROJECT FUNDING STATUS, GENERAL. Project funding for the new generation RVR is $48M and is shown in table 6-1. These funds will be used to procure and implement the RVR system equipment listed in table 4-1. Ninety-seven new sites will be established and 247 pre-Tasker 500 systems will be replaced with these funds. Funding after FY88 has not been approved, and is estimated solely for planning purposes.

TABLE 6-1. PROJECT FUNDING

	84	85	86	87	88	89	90	91	92	93	94	95	TOTAL
Headquarters	1.3	6.2	5.6	0.0	2.7	4.9	10.0	0	0				30.7
Regional	3.2	6.3	2.9	-	2.4	-	-	-	-	-			14.8
			Current Total Funding (millions)										45.5

61. FUTURE FUNDING. The concept behind the original project funding was to replace existing RVR systems with state-of-the-art systems which, at that time, were Tasker 500 transmissometer systems. To fulfill Category IIIb requirements, additional sensors for the Tasker systems were to have been procured. When the new generation RVR program was conceived, the program concept changed, but the funding requirements did not. The project funding budgeted for only those systems previously identified as needing upgrading to Tasker 500 and IIIb capability, and some locations qualifying for newly established RVR systems. Consequently, the Tasker 500 systems in existence at the time of the original $48M budget determination have not been funded for replacement by the new technology RVR systems. The extra funding needed to replace the 178 Tasker 500 systems, and to newly establish an additional 178 systems, is estimated to be $56M. It is anticipated that a follow on procurement for these 356 systems will occur in the post-1992 time frame.

62.-69. RESERVED.

CHAPTER 7. DEPLOYMENT

70. GENERAL DEPLOYMENT ASPECTS. Deployment of RVR systems is conducted by AAC-400 at the Mike Monroney Aeronautical Center and the FAA regions. As regional funds become available, requests from the regions to satisfy airport RVR requirements are honored by the FAA Depot. RVR equipment is shipped to the requesting airport where it is prepared for installation and installed. Implementation of the equipment is the responsibility of the region.

71. SITE PREPARATION. All site construction and installation work will be region responsibility.

a. Site Preparation. The preparation at each site will be unique according to the type of implementation occurring. Implementation schemes consist of establishing systems at new locations and establishing and replacing systems at locations where RVR equipment exists. The first site preparations will occur at the 14 locations in table 8-1 selected for reliability demonstrations. All preparations for these 15 installations shall be completed no later than 18 months after contract award. Site preparation includes planning for installation at the runway, tower, and field. At existing RVR sites, considerations must be made as to maintaining the operation of existing equipment, while making site preparations for implementing new generation RVR equipment. Other considerations for site preparation include weather conditions and concurrent construction activities.

b. Siting Standards. The new generation RVR components are functionally identical to the existing RVR equipment. All existing RVR orders and standards will be redone. New standard installation drawings will be prepared addressing equipment layout, construction detail and equipment interconnectivity wiring. The RVR new generation equipment will be located as follows:

1. Visibility Sensors. Adjacent to the precision approach runways at the RVR touchdown, midpoint and rollout locations as required, the visibility sensors will be mounted on regionally procured towers.

2. Ambient Light Sensors. Atop the Airport Traffic Control Tower (ATCT).

3. Runway Light Intensity Monitor. Airport Power Vaults for runway edge/centerline lights.

4. Data Processing Unit and System Console. ATCT equipment room racks.

5. Controller Displacer. ATCT cabs and TRACON radar rooms.

6. Displays for National Weather Service (NWS). At NWS offices to replace existing graphic RVR recorders.

c. Cabling. Design requirements for the new generation RVR require the capability to transmit sensor data by any one of three means; 19 psi, signal cable as used today, fiber optic cable, or radio link. Additionally, the systems will be able to transmit RVR data to remote controller displays either directly or via telephone lines.

72. DELIVERY. The contractor delivers 15 RVR systems to 14 sites (table 8-1) 18 months after contract award. The remaining equipment is delivered to AAC-400 and is available to the regions as required for their construction program. The depot ships equipment to the regions as requests are made. The schedule for equipment delivery to the depot is listed below. If option 1 is exercised, delivery of equipment will occur at the same rate listed below beginning with the month following the last delivery of each equipment from the main contract.

a. Design Qualification Systems. The contractor will ship two fully complemented RVR systems used for design qualification tests. They will arrive at the depot no later than 24 months after contract award.

b. Basic Systems. Beginning 25 months after contract award, 10 basic RVR systems per month will be delivered to the depot.

c. Sensors. Beginning 25 months after contract award, 62 sensors will be delivered to the depot at a rate of 20 per month.

d. Runway Light Intensity Monitors. RLIMs will be delivered to the depot at a rate of five per month beginning 25 months after contract award.

e. Displays. Starting 25 months after the contract award, 30 displays per month will be delivered to the depot.

73. INSTALLATION PLAN. Airways Facilities personnel are responsible for the installation of RVR equipment. Figure 7-1 illustrates a configuration typical of the new generation RVR system.

a. General. Existing RVR transmissometer systems consisting of a projector and receiver on towers, must be replaced by a sensor mounted at a single point. New generation displays specifically designed to replace those currently existing in towers must be also installed. RLIMs interfaced with runway edge and centerline lights replace existing runway light setting boxes. New ALSs must be installed and the DPU replaces the functions of the signal data converter mainframe and modules. Installation procedures will be executed in accordance with the instruction books provided to the FAA by the contractor. Advance information will be provided for all reliability demonstration locations. After successful completion of reliability demonstration testing on the 15 systems (table 8-1) installed by the contractor, regional personnel will be responsible for installing their displays in their operational locations in the towers. Appendices 1-9 contain runway configurations of all airports receiving new generation RVR equipment. Airports with existing equipment and those cited for first-time establishment are noted.

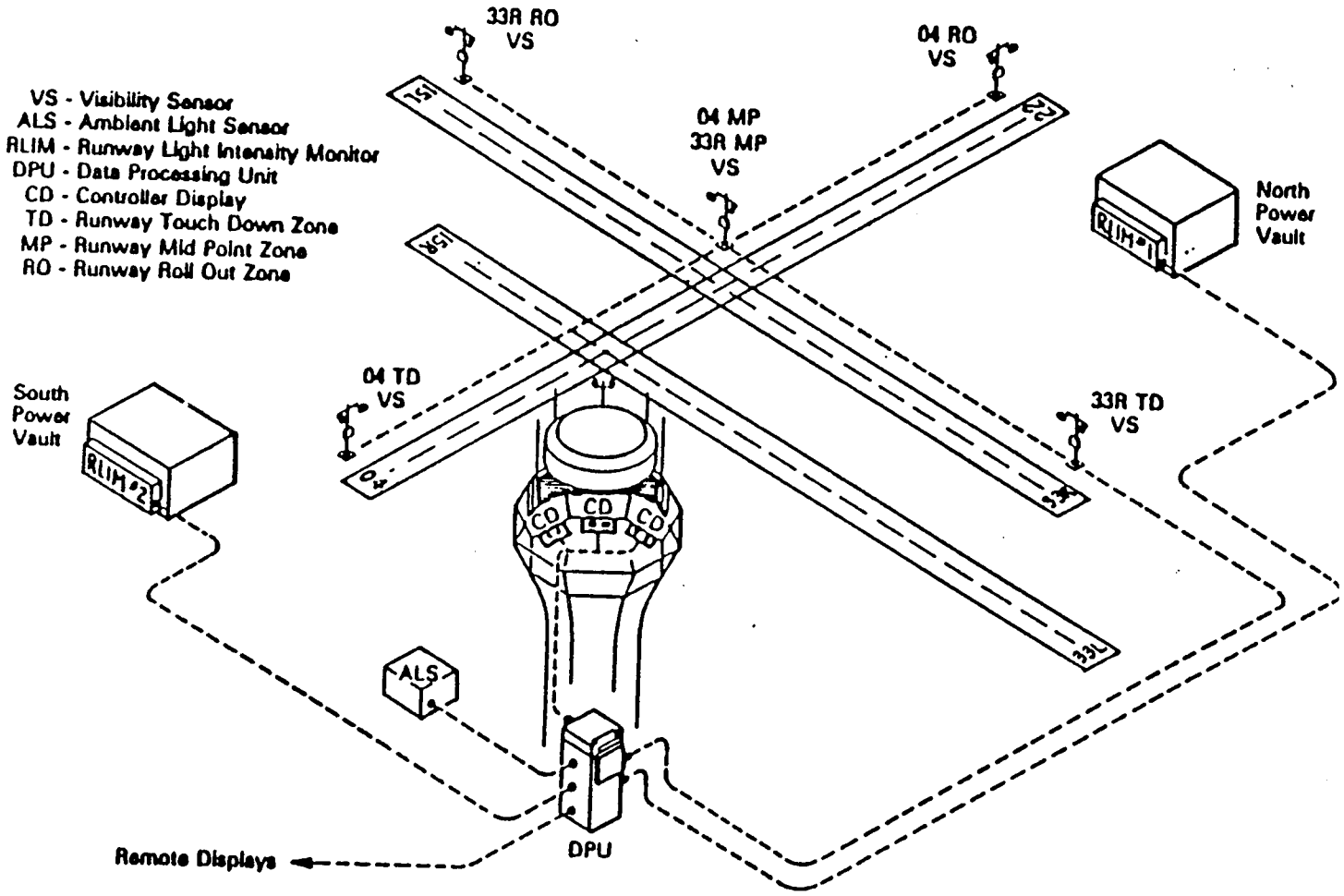

FIGURE 7-1. RVR SYSTEM LAYOUT

b. Installation Philosophy. The installation philosophy for the implementation of new generation RVR equipment is to change out an entire airport at one time. To accomplish this APS-400 will prepare a mass reprogramming action to justify replacement of existing RVR equipment, heretofore unbudgeted, along with the budgeted requirements. Airport locations will be determined in accordance with the following budgeted priorities starting with FY84 and later.

(1) The installation philosophy for RVR equipment is to first satisfy the 1984 budgeted requirements. The priority for installation requirements is as follows:

(a) Establish category IIIb.

(b) Establish category II.

(c) Establish category I.

(d) Convert RVV.

(e) Replace or upgrade.

(2) Using this philosophy, installation of equipment by the regions will first occur at airports with a 1984 budgeted requirement for a category IIIb establishment. When satisfying one of these 1984 budgeted requirements at an airport, all other budgeted requirements for that airport will be satisfied at the same time. In this manner, all site preparation and installation activities at an airport will be concurrent. When all activities at airports with a 1984 budgeted requirement are completed, 1985 budgeted requirements may be satisfied. The same installation philosophy applies to 1985 and the budget years that follow.

74. CONFIGURATION MANAGEMENT PLAN. Configuration management of RVR hardware and associated items are subject to configuration management procedures detailed in the latest edition of FAA Order 1800.8, NAS Configuration Management. Configuration management provides for change coordination before changes to baselined documentation and data are authorized. The NAS configuration control database is maintained by the System Engineering and Configuration Management Office, ASE-200.

75.-79. RESERVED.

CHAPTER 8. VERIFICATION

80. FACTORY VERIFICATION. The RVR contractor performs design qualification, production and type tests at the factory to validate and demonstrate that the RVR system meets the specification requirements of FAA-E-2772. A reliability demonstration will also be performed by the contractor at 14 field sites specified in table 8-1.

a. Preliminary Tests. The contractor conducts preliminary tests to demonstrate readiness for inspection of the two fully complemented RVR systems to be used for design qualification tests. A fully complemented system is comprised of 12 visibility sensors, one SC, one DPU, elght RLIMs, one ALS, associated SIEs, and six displays. The test data is submitted to the FAA 15 days prior to the conducting of the formally witnessed design qualification tests.

b. Design Qualification Tests. The contractor conducts design qualification tests to demonstrate that the RVR system meets the specification performance requirements through inspection, analysis, or actual qualitative or quantitative tests. These tests must be successfully completed before the reliability demonstration test is allowed to commence. They include functional and aocuracy tests, environmental tests, power electromagnetic and lightning protection tests, operational verification tests, and demonstration of maintainability and remote maintenance monitoring.

c. Reliability Demonstration. The contractor will demonstrate a MTBF of 5000 hours for the 15 basic systems and associated equipment listed in table
4-1. Prior to the shipment of this equipment to the sites listed in table 8-1, the contractor will have successfully completed design qualification testing, production tests on the systems listed in table 8-1, and type testing for the second group of basic systems. Site preparation for the reliability demonstrations will be the responsibility of FAA regional personnel. The contractor will deliver the equipment for the demonstration no later than 18 months after the contract award, and will install, maintain, and monitor the systems during the tests. The 5000 hour MTBF will be successfully demonstrated by the 24th month after contract award. After a successful reliability demonstration by the RVR contractor, the FAA will conduct a Joint Acceptance Inspection (JAI) and commission the facility in accordance with FAA Order 6030.45.

d. Production Tests. Production tests are perfcrmed on every RVR system produced, and include production acceptance tests, electrical and mechanical performance tests, visual inspection tests and burn-in, and calibration tests.

e. Type Tests. The RVR contractor performs type tests to verify that production systems continue to perform in accordance with FAA-E-2772. Production systems are divided into groups according to production number, and one representative system from each group is tested.

TABLE 8-1. RELIABILITY DEMONSTRATION SITES

Airport	Loc. ID	Basic	Sensor	RLIM	Displays
Kansas City	MCI	1	3	1	6
Dulles	IAD	1	3	1	7
JFK	JFK	1	8	3	10
O'Hare	ORD	2	9	2	19
Detroit Wayne	DIW	1	5	2	9
Stapleton	DEN	1	6	2	8
Portland	PDX	1	3	1	8
Seattle-Tacoma	SEA	1	3	1	10
Houston	IAH	1	7	2	10
Los Angeles	LAX	1	5	3	15
San Francisco	SFO	1	4	3	8
Portland	PWM	1	1	0	5
Greater Cincinnati	CVG	1	3	1	4
Anchorage	ANC	1	2	1	4

81. CHECKOUT. After installation of equipment by the regions, FAA personnel conduct checkout tests in accordance with the contractor developed equipment instruction books. The procedures followed include testing electrical and mechanical hardware interfaces, verifying system performance and maintenance capability, and verifying the performance of support hardware and software. The RVR system test set will be used by maintenance personnel to conduct, check out, and calibrate the RVR system.

82. CONTRACTOR INTEGRATION TESTING. Integration testing is performed at the contractor's facility as part of design qualification testing. In addition, the contractor will simulate and demonstrate the interfacing of the RVR system to an MPS and the use of the MDT.

83. CONTRACTOR ACCEPTANCE INSPECTION. Contractor Acceptance Inspection (CAI) of the RVR occurs at the contracting facility. Quality control inspections are performed by the QRO in accordance with FAA requirements. All equipment, excepting the reliability demonstration systems, is accepted at the contractor's facility following successful completion of production and type tests. Final acceptance of the reliability demonstration systems will be in the field following completion of the reliability demonstration tests. Hardware and/or software changes arising out of the reliability demonstration test will be incorporated into these systems prior to final acceptance.

84. FAA INTEGRATION TESTING. MPS integration testing may be conducted when MPS software is available.

85. SHAKEDOWN AND CHANGEOVER. Shakedown testing is performed by FAA regional personnel at the RVR site to support determination that the RVR system is ready for full operation as part of the NAS. After the successful completion of JAI, changeover oocurs as the local AF maintenanoe representative assumes maintenance responsibility for the system. The system is then formally placed into the NAS for operation.

86. JOINT ACCEPTANCE INSPECTION.

a. A joint acceptance board, in accordance with FAA Order 6030.45, inspects and evaluates each RVR installation to determine that the facility has been established in accordance with agency plans, standards, drawings, and specifications; adequately provides for maintenance needs; and is capable of performing its functions on a commissioned basis. An Operational Readiness Demonstration (ORD) is performed as part of the JAI to verify the following.

(1) Documentation. RVR system, subsystem, and equipment documentation accurately describe the facility.

(2) Staffing. Sufficient staffing exists, and personnel are sufficiently trained and familiar with RVR functions and equipment.

(3) Logistic Support. Logistic support capability has been established, and technical logistic data and support material have been furnished.

(4) Records. Real property records exist in accordance with FAA Order 4660.1.

b. At the conclusion of JAI, the joint acceptance board prepares a report documenting the basis for acceptance, and/or commissioning the RVR facility.

87.-89. RESERVED.

CHAPTER 9. INTEGRATED LOGISTICS SUPPORT

90. MAINTENANCE CONCEPT. The RVR system is supported by both site and depot maintenance. The FAA is responsible for the maintenance of new generation RVR equipment. FAA regions assign personnel to AF sectors where work centers, defined by geographic and personnel skill capabilities, are responsible for on- site maintenance of RVR facilities. The FAA is also responsible for FAA Depot repair, alignment and calibration of RVR equipment and LRUs requiring this level of specialized equipment maintenance.

a. Site Maintenance. The RVR system generates failure and alarm messages monitored by the maintenance control center through the FAA's RMMS. Based on the Information provided to the work center via the RMMS, the technician travels to the facility. Remote diagnostic capability at the maintenance work center or at the RVR site allows for fault isolation to the major RVR component or LRU level. If required, the technician conducts further fault isolation and replaces the faulty LRU with a serviceable spare. The technician reports the completion of the repair to the Maintenance Processor Subsystem (MPS) via Log-On with the Maintenance Data Terminal (MDT).

b. FAA Depot Maintenance. FAA Depot maintenance consists of repair of the unserviceable LRUs/components removed from RVR facilities and returned to the depot level facility.

91. TRAINING. Training requirements are provided for both FAA AF personnel and FAA AT personnel.

a. Initial training for FAA AF personnel is conducted by the contractor at the contractor's facility. Training courses are developed and conducted for technicians assigned to RVR maintenance and academy personnel for generating academy residence training capabilities. Training course graduates are able to configure RVR equipment for normal operations, recognize equipment malfunctions, perform corrective action, and document all periodic maintenance. Equipment for the Academy is included under an FY85 budget item and will be satisfied with new generation RVR equipment. Initial training will be accomplished at the contractor's facility and subsequent to that at the FAA Academy. A total of five (5) classes is required by the contract. The following general timetable is anticipated.

b. Training for FAA AT personnel is through a system User's Guide developed by the contractor. The User's Guide will provide the AT personnel the knowledge and capability to call up and display RVR values for any RVR in operation on the airport.

c. The training timetables are as follows:

Contract Date of Award (DOA)	- June 1988
Delivery of User's Guide	- DOA + 15 mos.
Delivery of Academy Equipment	- DOA + 18 mos.
1st Contractor Class	- DOA + 19 mos.
2nd Contractor Class	- DOA + 23 mos.
3rd - 5th Contractor Classes	- DOA + 24-26 mos.
Subsequent Classes	- FAA Academy

92. SUPPORT TOOLS AND TEST EQUIPMENT.

a. The contractor is responsible for the identification and documentation of all required support and test equipment. This will include common and/or unique tools, test equipment, jigs, fixtures, test stands, etc., which are required for the performance of maintenance tasks at all identified maintenance levels. These items will be provided to the Government as specified within the contract SOW. In addition to identification, requirements for unique support and test equipment shall be justified and the equipment will be completely described to enable the Government to make the best determination in satisfying the requirement.

b. The contractor will endeavor to ensure that items currently in the FAA inventory, or currently used to support other FAA equipment, or available within the Government inventory are used to meet system support requirements.

93. SUPPLY SUPPORT.

a. Supply support requirements, in the form of Provisioning Technical Documentation (PTD), will be accomplished under the guidelines of the Contract SOW paragraph 3.3.6.4 and H.1.0. All provisioning efforts for the program will be based upon MIL-STD-1388-2A and 1561B. Formatting of PTD will be accomplished in accordance with specified CDRL's.

b. Supply support for the program will be developed through the provisioning method of procurement as stated in paragraph C.6 of the Contract SOW. The contracting officer will determine the extent of Government purchase of spare parts and assemblies, and will reach a negotiated delivery price and terms of delivery of the desired items.

94. VENDOR DATA AND TECHNICAL MANUALS. Instruction books for the RVR system are provided by the contractor and reviewed by the FAA prior to acceptance. Instruction books are provided with each RVR system that is delivered. Other technical manuals to be provided by the contractor include maintenance, installation and software manuals, reliability, maintainability and test plans, and drawings. The contractor will provide a system User's Guide for the operation of the RVR by AT personnel.

95. EQUIPMENT REMOVAL. Existing RVR equipment is removed by FAA regional personnel and replaced by new generation equipment. Old equipment will be excessed.

96. FACILITIES.

97.-99. RESERVED.

LIST OF APPENDICES

APPENDIX I. AAL SITE LOCATIONS

APPENDIX 2. ACE SITE LOCATIONS

APPENDIX 3. AEA SITE LOCATIONS

APPENDIX 4. AGL SITE LOCATIONS

APPENDIX 5. ANE SITE LOCATIONS

APPENDIX 6. ANM SITE LOCATIONS

APPENDIX 7. ASO SITE LOCATIONS

APPENDIX 8. ASW SITE LOCATIONS

APPENDIX 9. AWP SITE LOCATIONS

NOTE: Distribution of this order includes only the appendix corresponding to the appropriate region.

APPENDIX 1. AAL SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO (AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

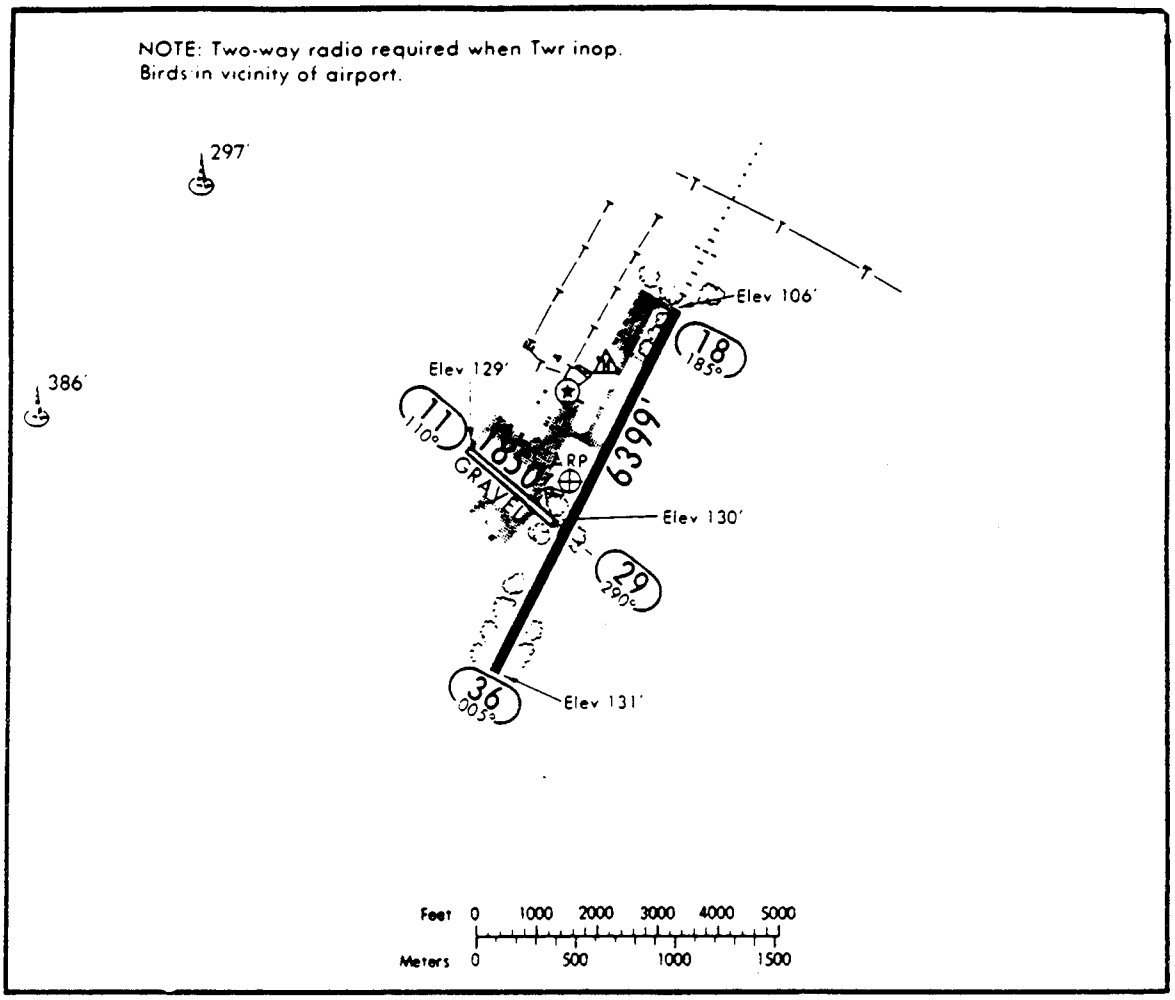
NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

BETHEL (BET)

AAL



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EXISTING

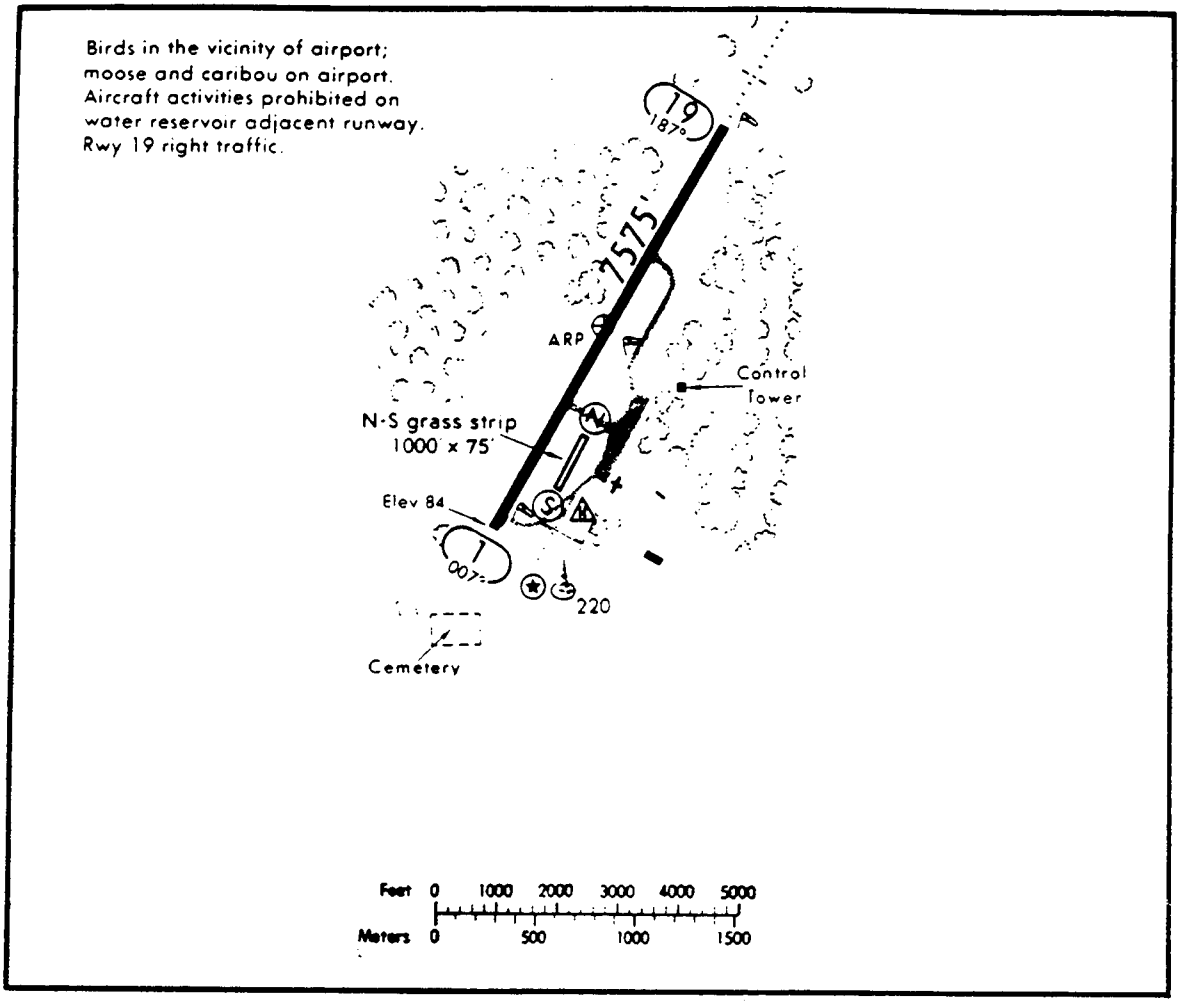
NONE

NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	1	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 11

KENAI (ENA) AAL



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EXISTING

NONE

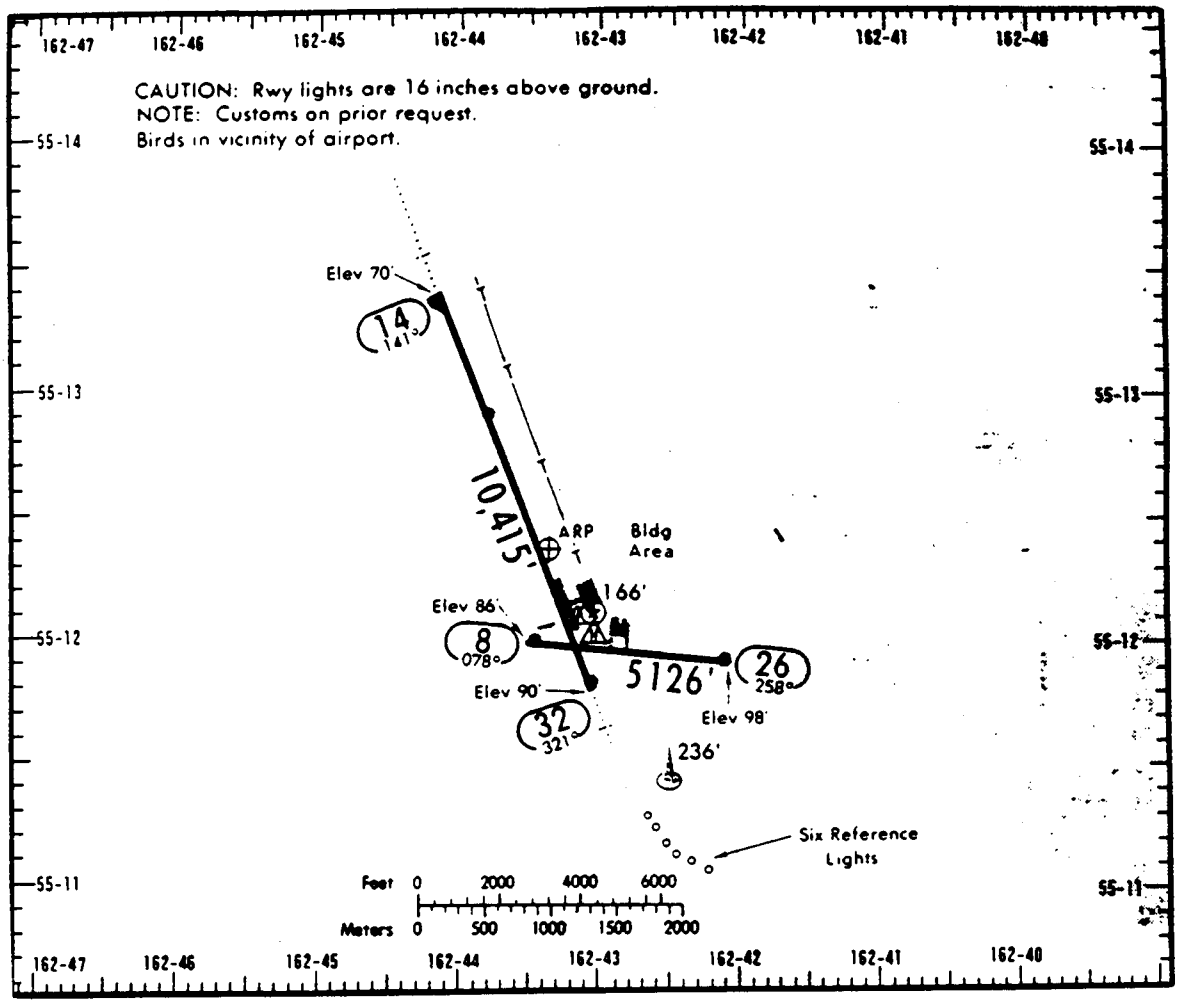
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	–	
Other	–	
FSS	1	
Total Displays		2

FY 85	ESTABLISH	R/W 19

COLD BAY (CDB)

AAL



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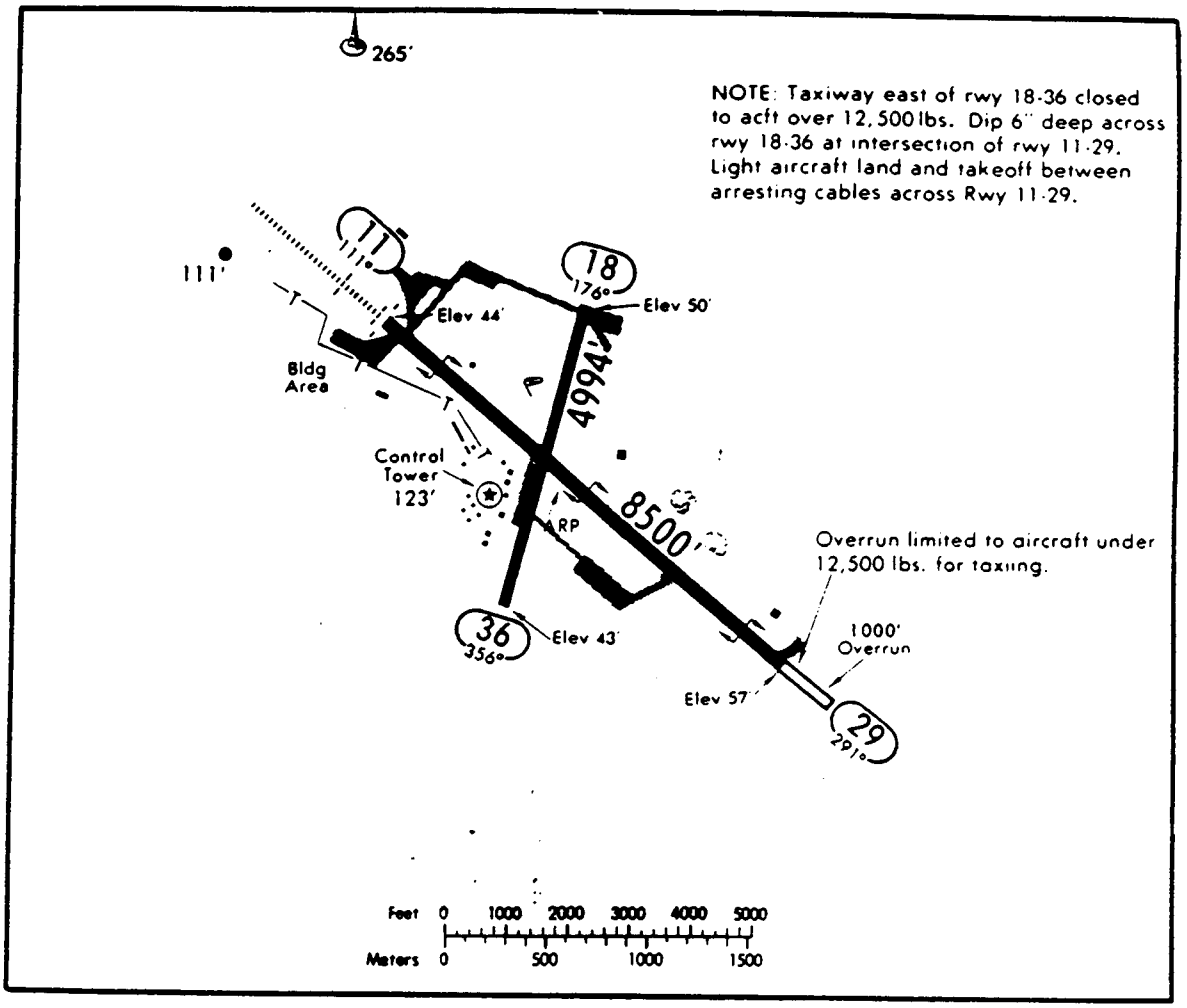
EXISTING		NEW GENERATION	
14	34711	System Elements	QTY REQ'D
CDB	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT –	
		TRACON –	
		NWS 1	
		Other –	
		FSS 1	
		Total Displays	2

FY 85	CONVERT RVV	R/W14

KING SALMON (AKN)

AAL



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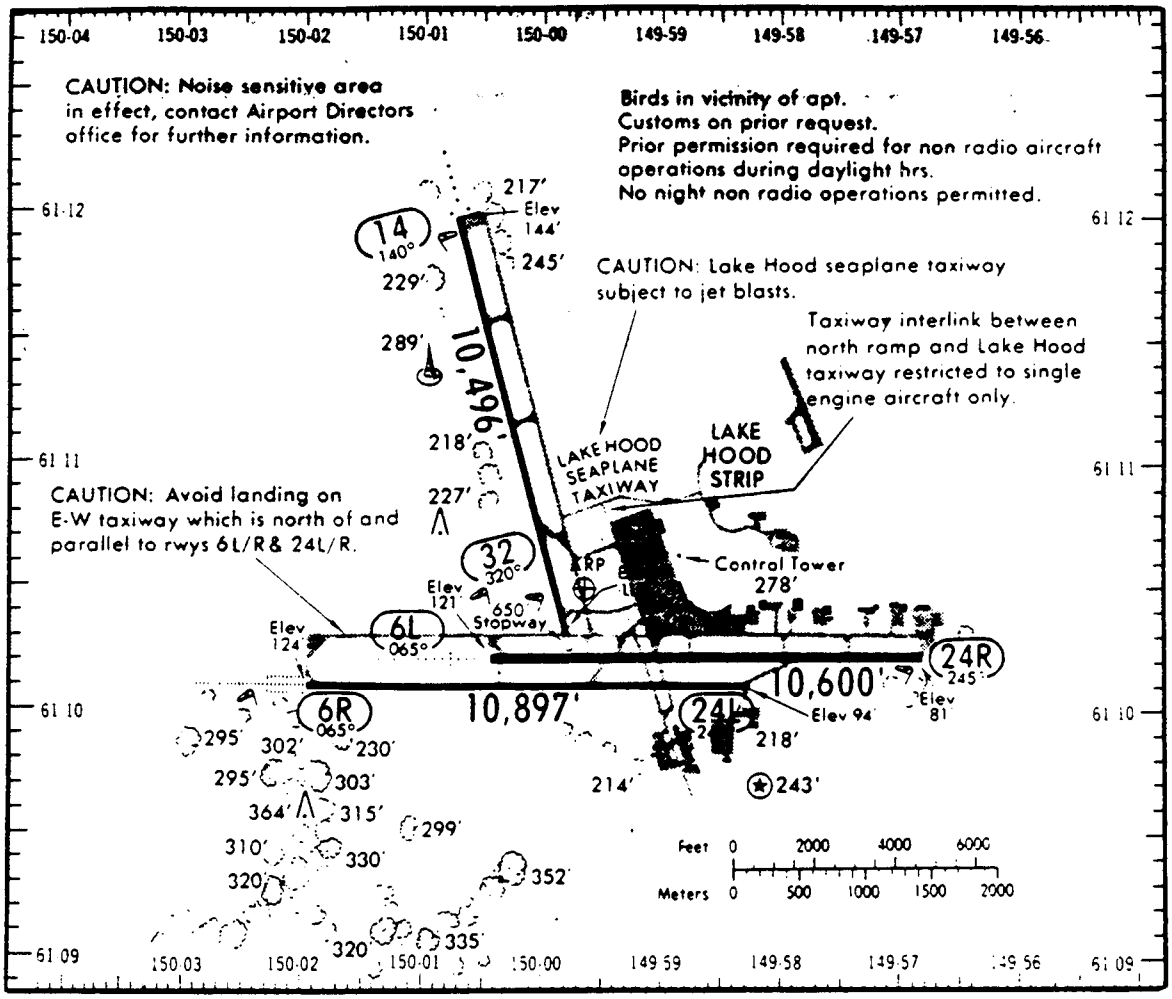
	EXISTING	NEW GENERATION
11	34711	
AKN	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	1	
Other	–	
FSS	2	
Total Displays		4

FY 85	CONVERT RVV	R/W 11

ANCHORAGE (ANC)

AAL



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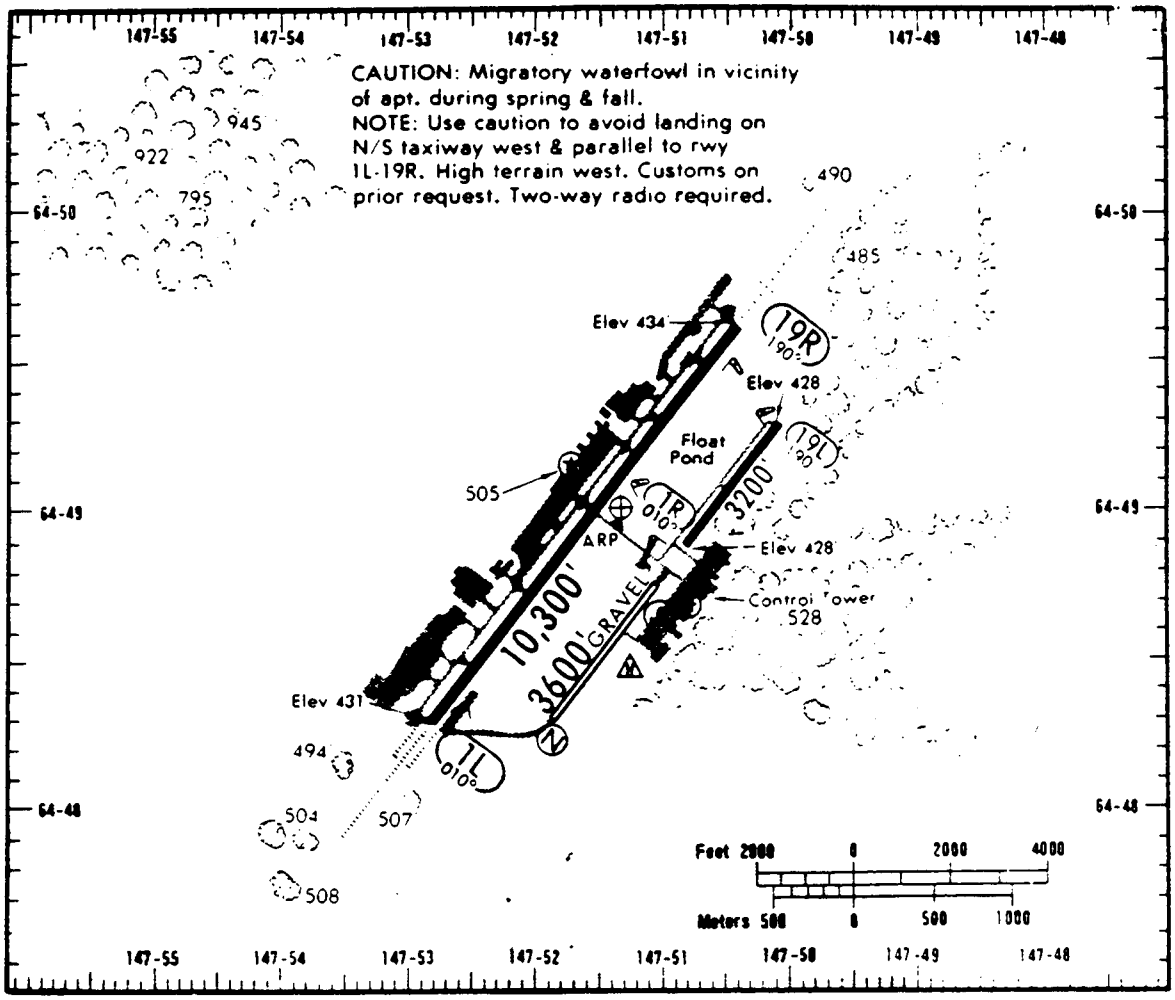
	EXISTING	NEW GENERATION
06R	347AC	
ANC	TD	
ANCA	MP	
ANCB	RO	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		2
RLIM		–
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	–	
Total Displays		4

FY 86	REPLACE	R/W 06R

FAIRBANKS (FAI) AAL



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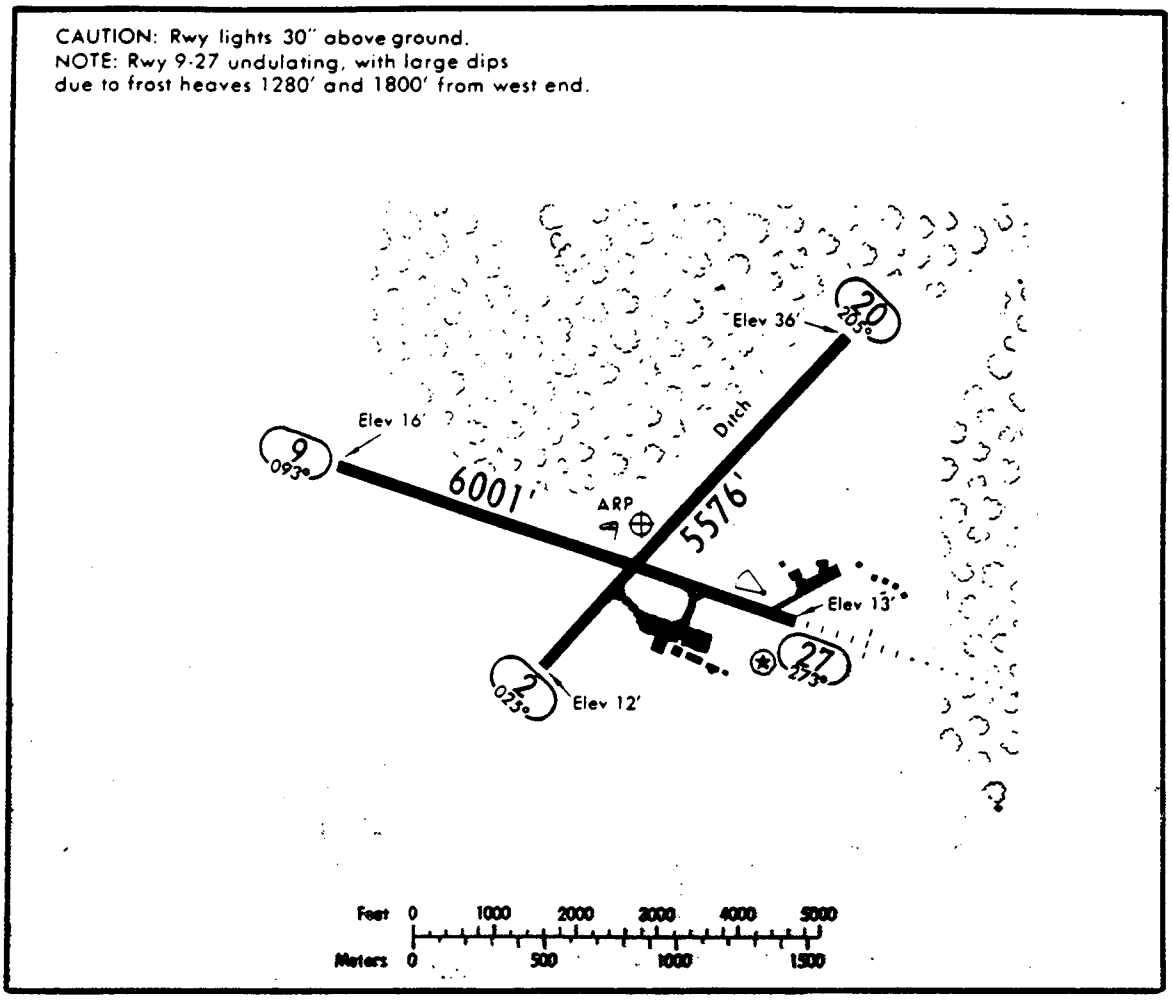
EXISTING		NEW GENERATION		
01L	347AD	System Elements		QTY REQ'D
CNA	TD	Basic		1
CNAA	MP	Sensor Packages		2
CNAB	RO	RLIM		–
		Displays		
		ATCT	2	
		TRACON	4	
		NWS	1	
		Other	–	
		Total Displays		7

FY 86	REPLACE	R/W 01L

NOME (OME)

AAL



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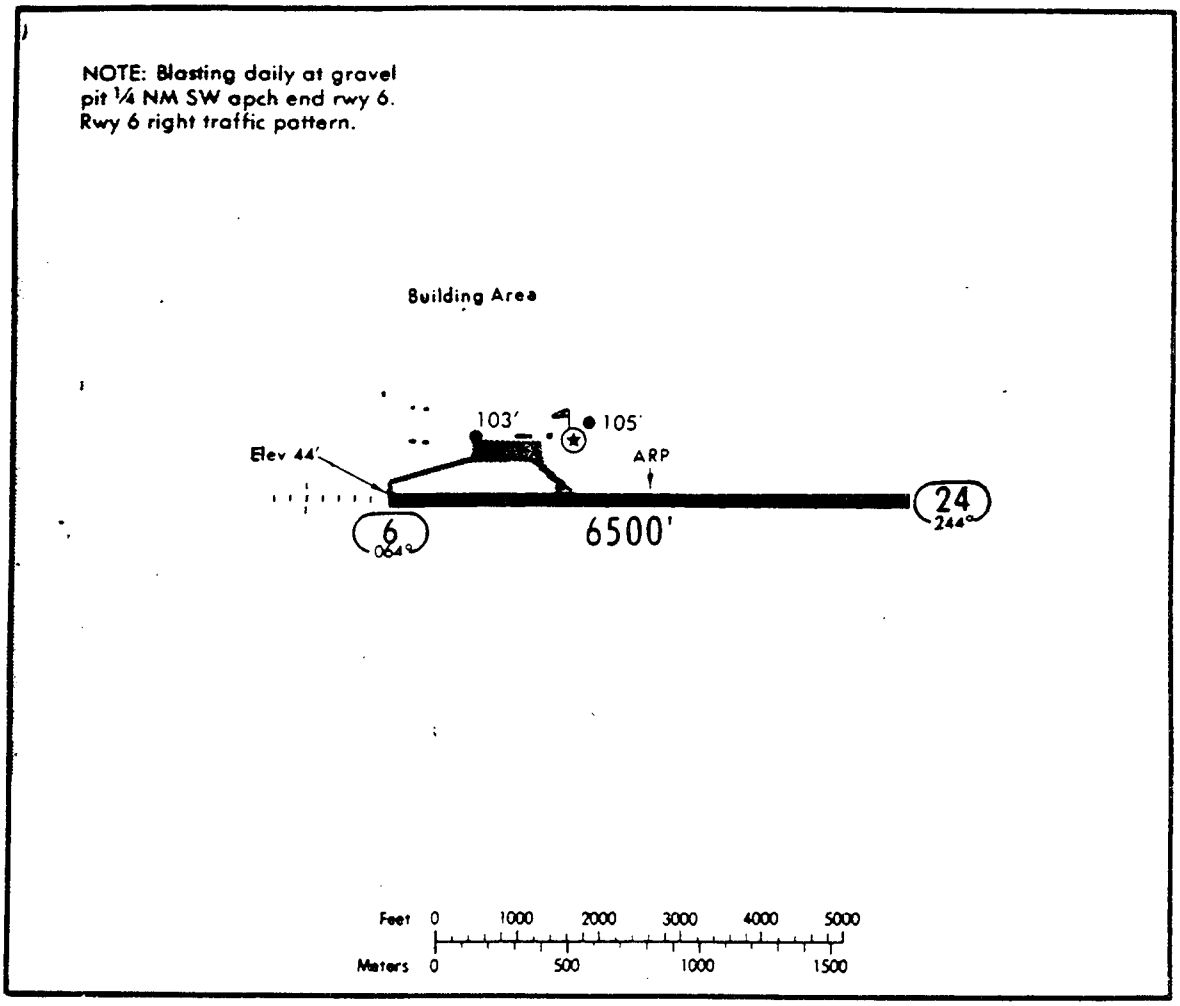
	EXISTING	NEW GENERATION		
27	347AD	System Elements		QTY REQ'D
OME	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	–	
		TRACON	–	
		NWS	1	
		Other	–	
		FSS	1	
		Total Displays		2

FY 86	REPLACE	R/W 27

BARROW (BRW)

AAL



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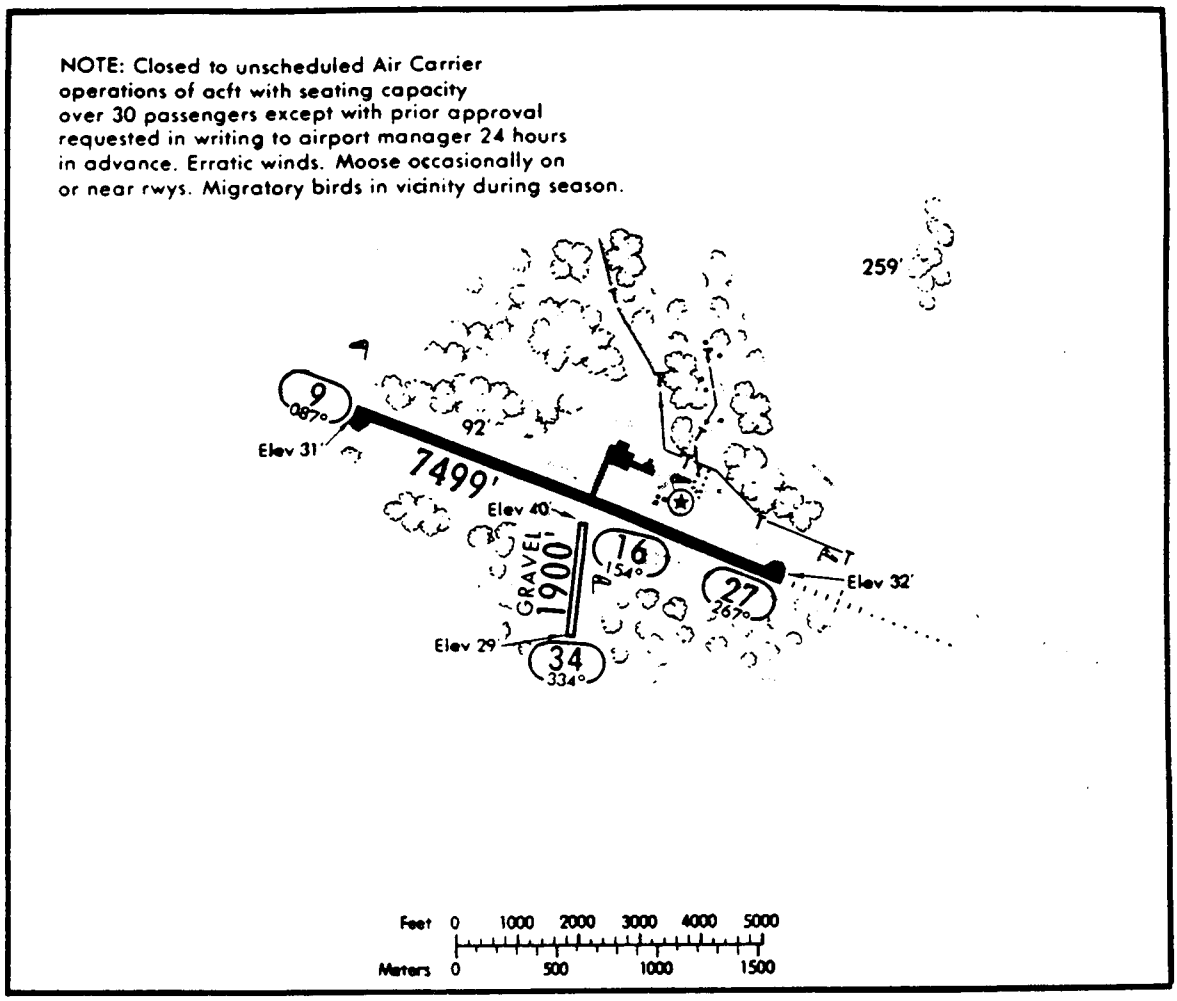
	EXISTING	NEW GENERATION		
06	347AE	System Elements		QTY REQ'D
BRW	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	–	
		TRACON	–	
		NWS	1	
		Other	–	
		FSS	1	
		Total Displays		2

FY 93	REPLACE	R/W 06

CORDOVA (CDV)

AAL



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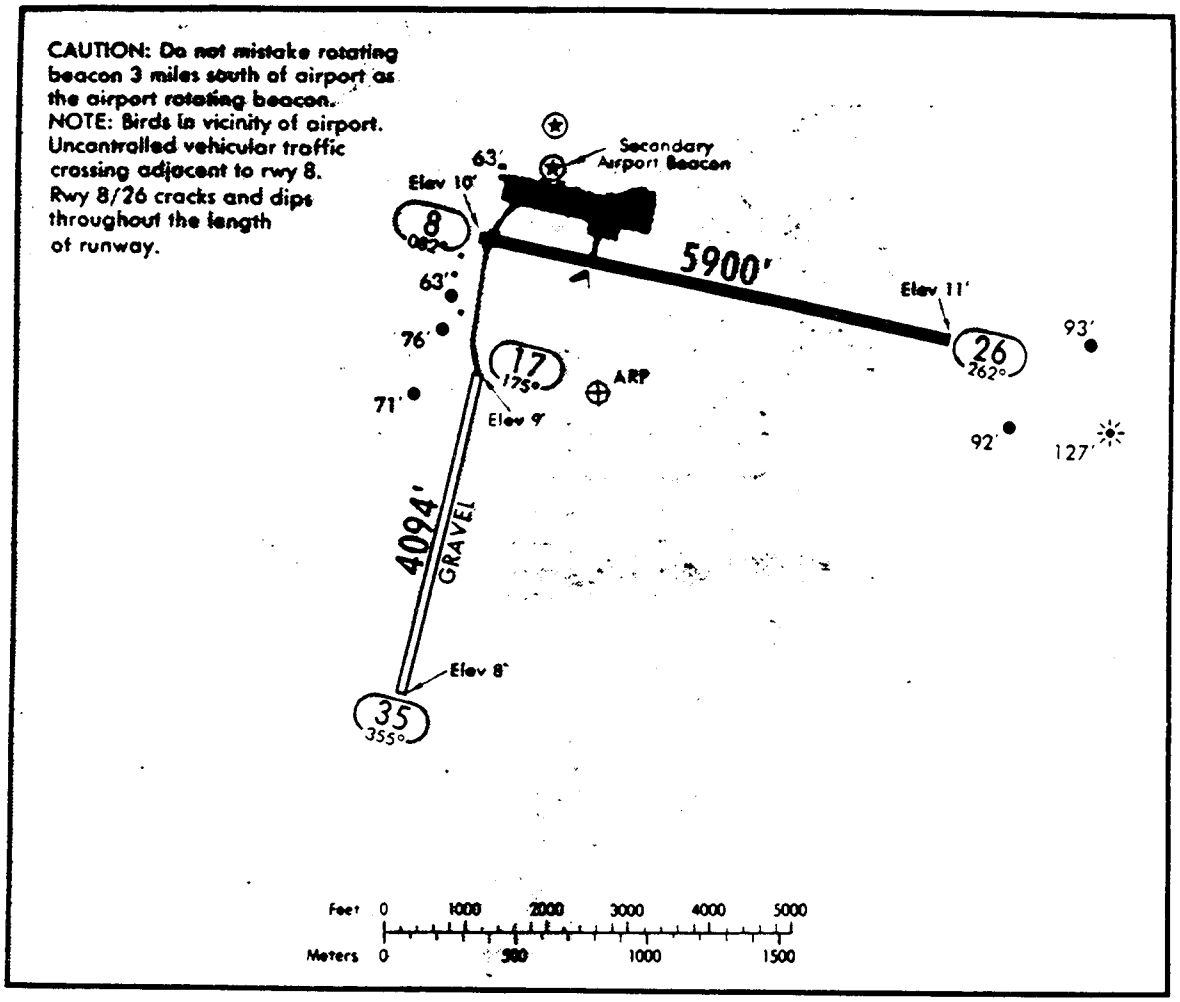
	EXISTING	NEW GENERATION		QTY REQ'D
09	347AG	System Elements		QTY REQ'D
CDV	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	–	
		TRACON	–	
		NWS	–	
		Other	–	
		FSS	1	
		Total Displays		1

FY 93	CONVERT	R/W 09

KOTZEBUE (OTZ)

AAL



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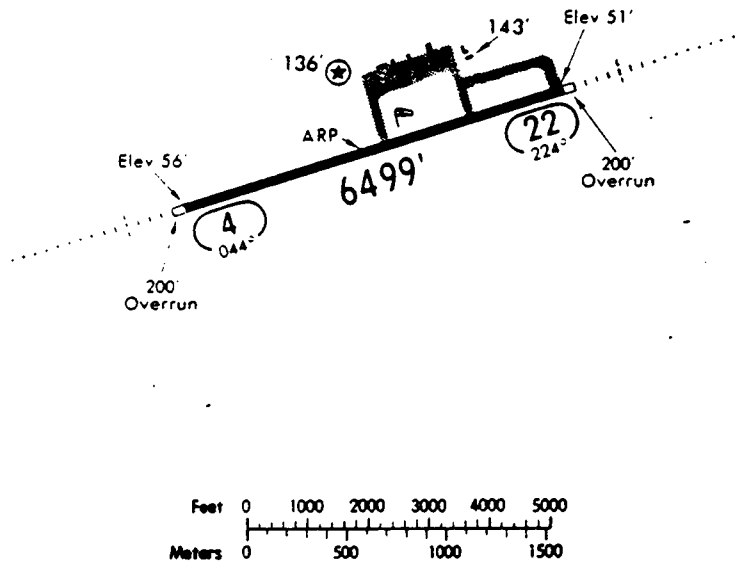
	EXISTING	NEW GENERATION		
08	347AE	System Elements		QTY REQ'D
OTZ	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	–	
		TRACON	–	
		NWS	1	
		Other	–	
		FSS	1	
		Total Displays		2

FY 93	REPLACE	R/W 08

DEADHORSE (SCC)

AAL

NOTE: Caribou occasionally on runway.
Rwy 4 right traffic pattern.



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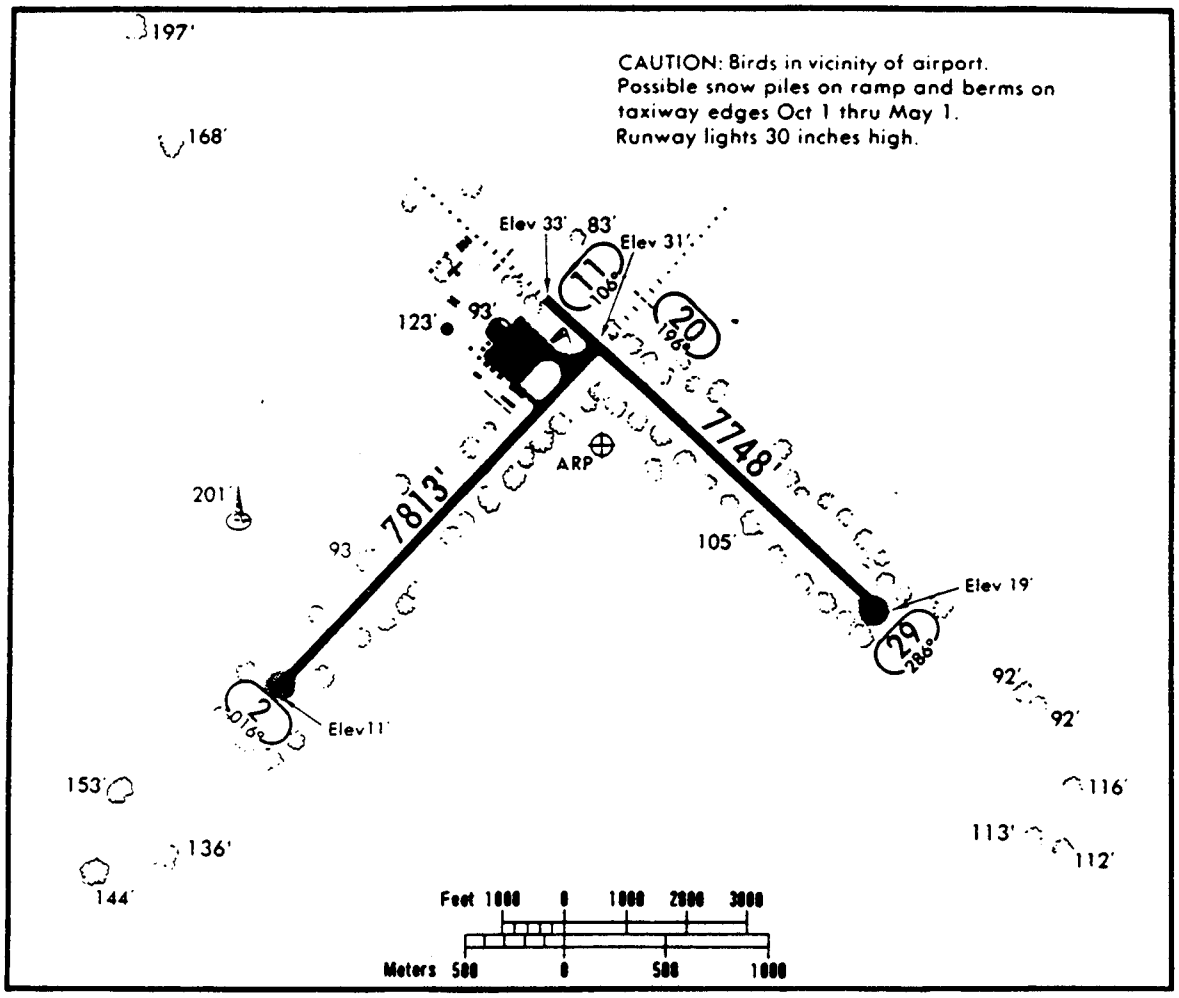
	EXISTING	NEW GENERATION	
04	347AE	System Elements	QTY REQ'D
SCC	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT –	
		TRACON –	
		NWS –	
		Other –	
		FSS 1	
		Total Displays	1

FY 93	REPLACE	R/W 04

YAKUTAT (YAK) AAL



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EXISTING		NEW GENERATION	
11	347AE	System Elements	QTY REQ'D
YAK	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT –	
		TRACON –	
		NWS 1	
		Other –	
		FSS 1	
		Total Displays	2

FY 93	REPLACE	R/W 11

APPENDIX 2. ACE SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO (AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

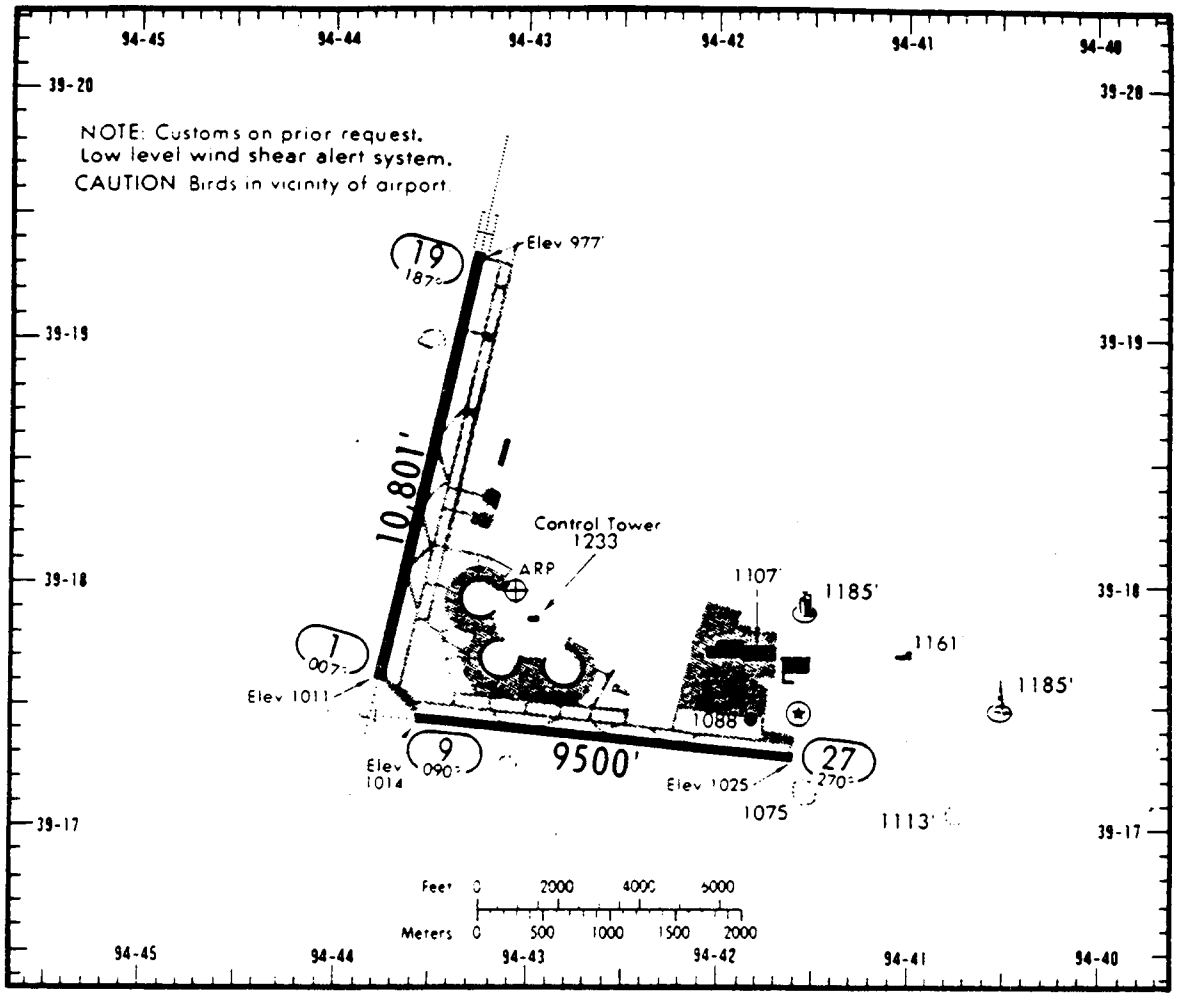
NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

KANSAS CITY MO (MCI)

ACE



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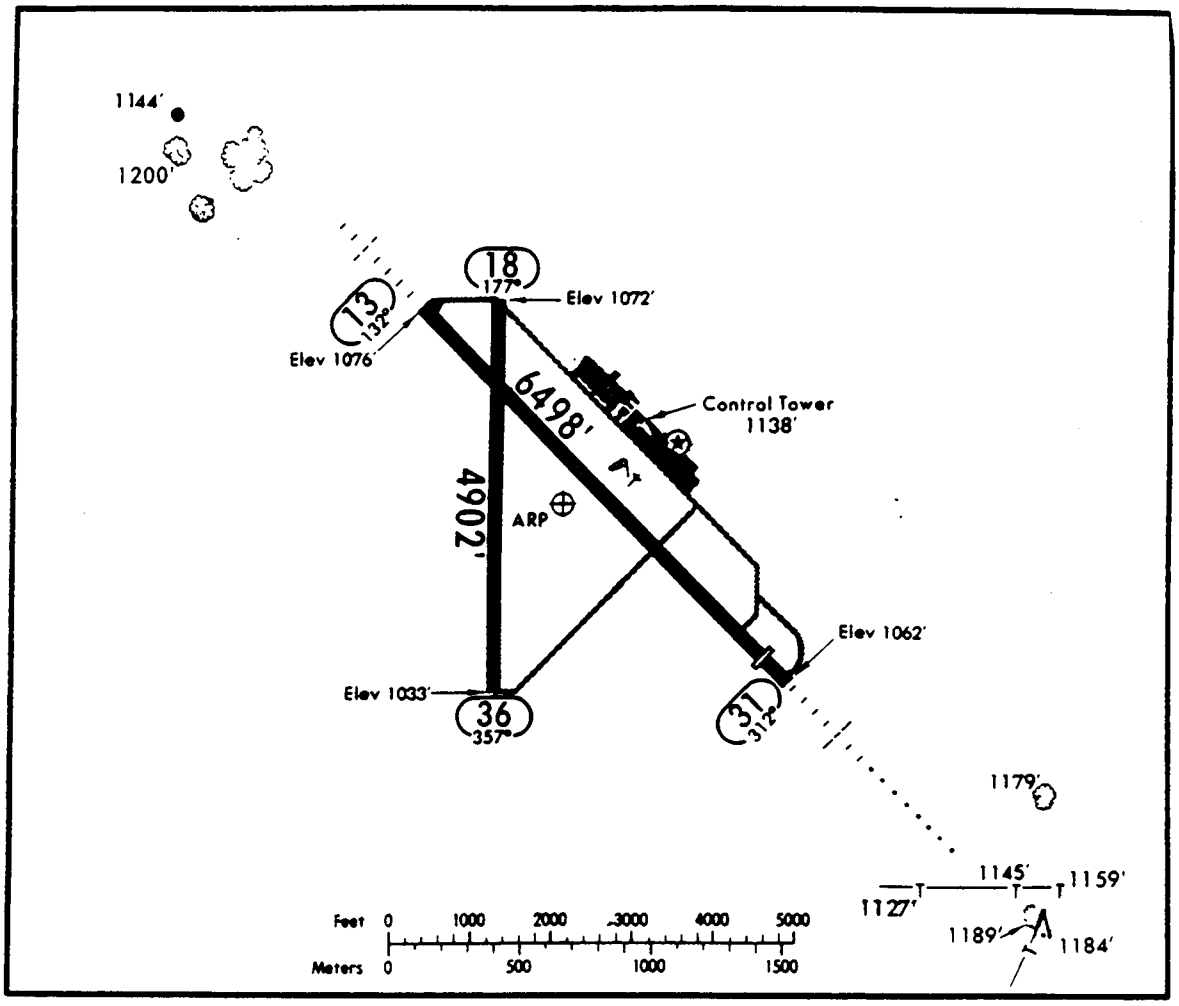
EXISTING		NEW GENERATION		
19	347AD	System Elements		QTY REQ'D
PAJ	TD	Basic		1
PAJA	MP	Sensor Packages		3
PAJB	RO	RLIM		1
		Displays		
09	347AD	ATCT	1	
		TRACON	5	
RNI	TD	NWS	–	
		Other	–	
		Total Displays		6

FY 84	CAT IIIb	R/W 19
FY 86	REPLACE	R/W 19, 09

DUBUQUE IA (DBQ) ACE



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EXISTING

NONE

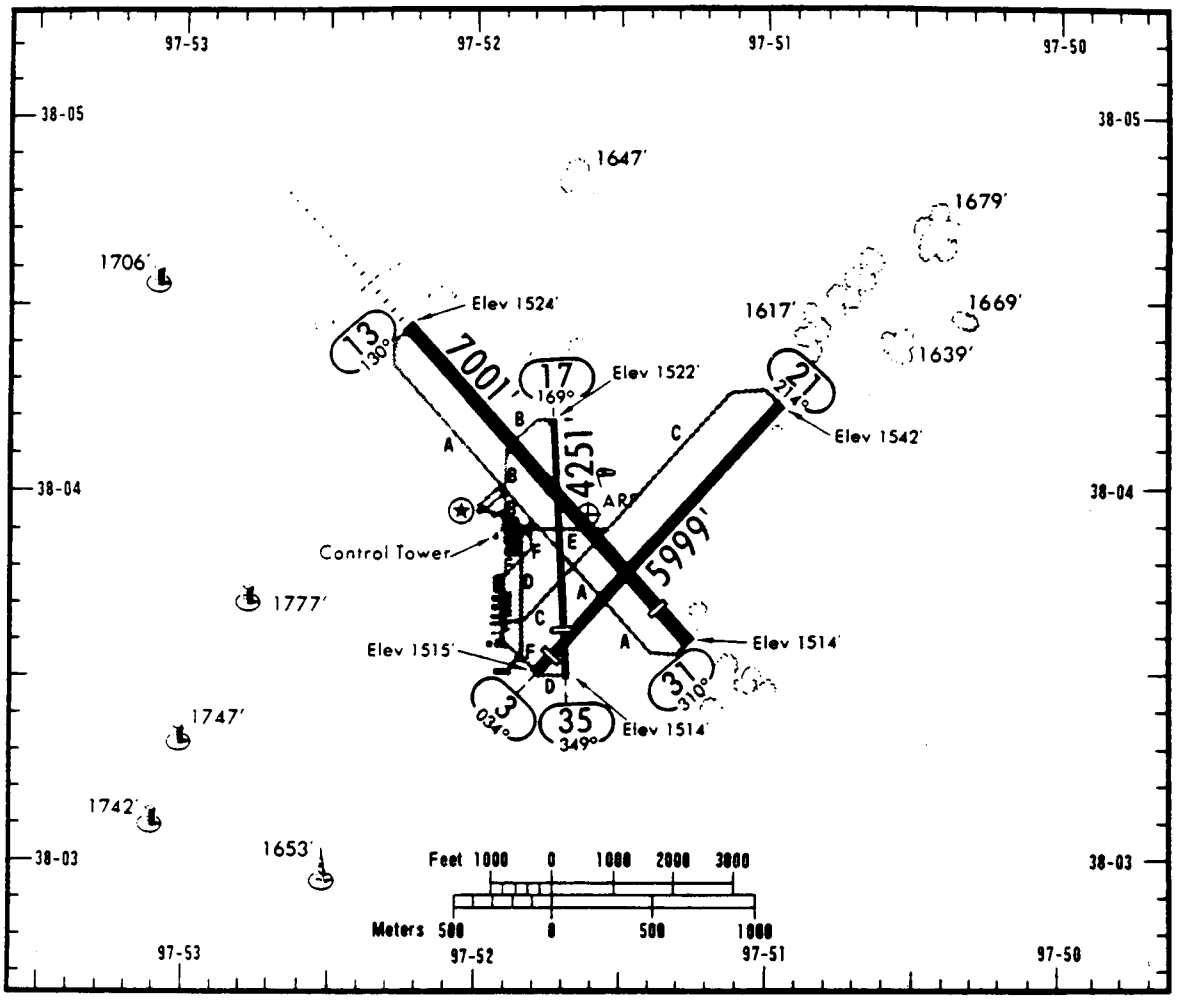
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	3	
TRACON	–	
NWS	–	
Other	–	
Total Displays		3

FY 85	ESTABLISH	R/W 31

HUTCHINSON KS (HUT)

ACE



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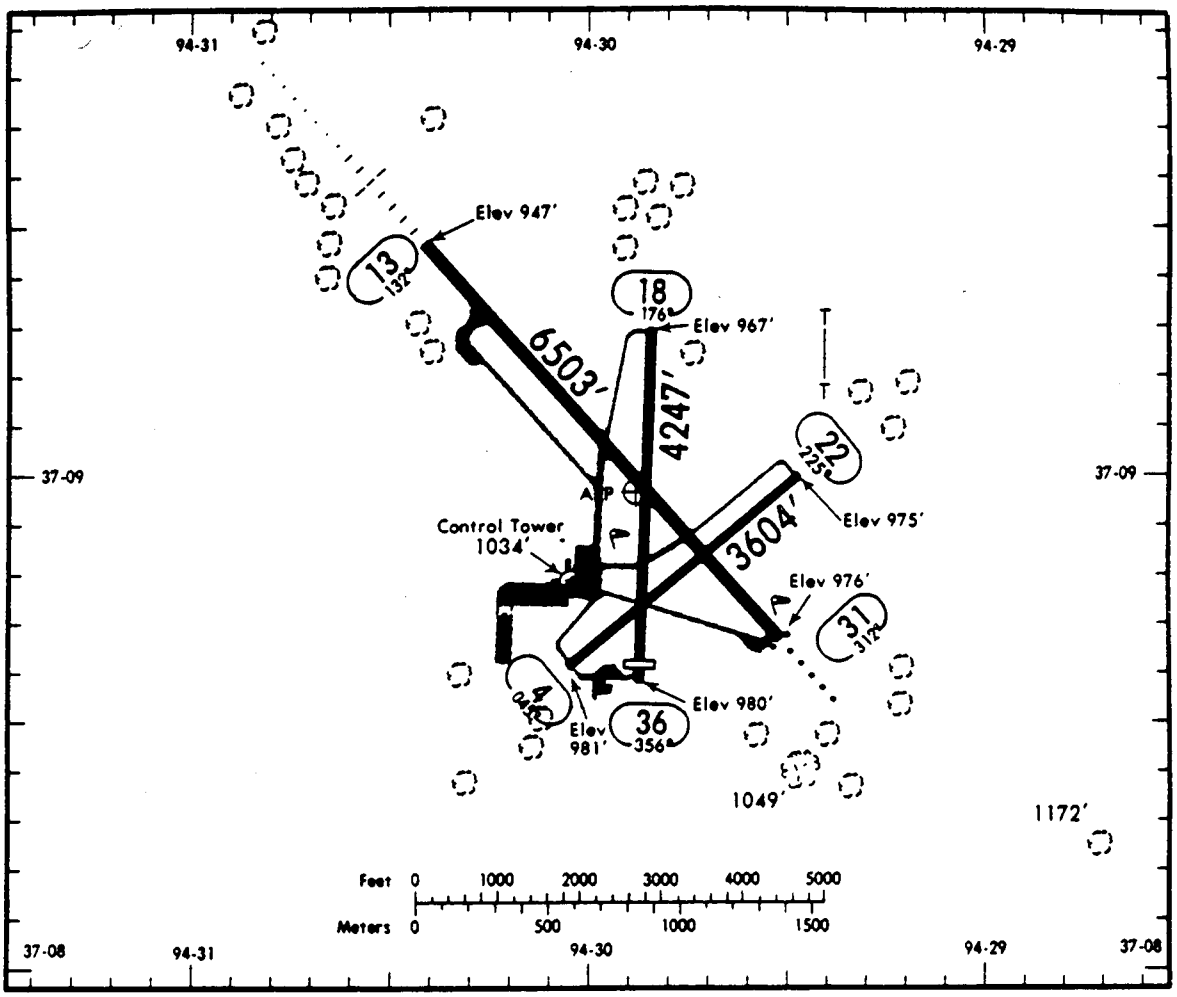
EXISTING		NEW GENERATION	
13	34711	System Elements	QTY REQ'D
HUT	TD		
		Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT 3	
		TRACON –	
		NWS –	
		Other –	
		Total Displays	3

FY 85	CONVERT RVV	R/W13

JOPLIN MO (JLN)

ACE



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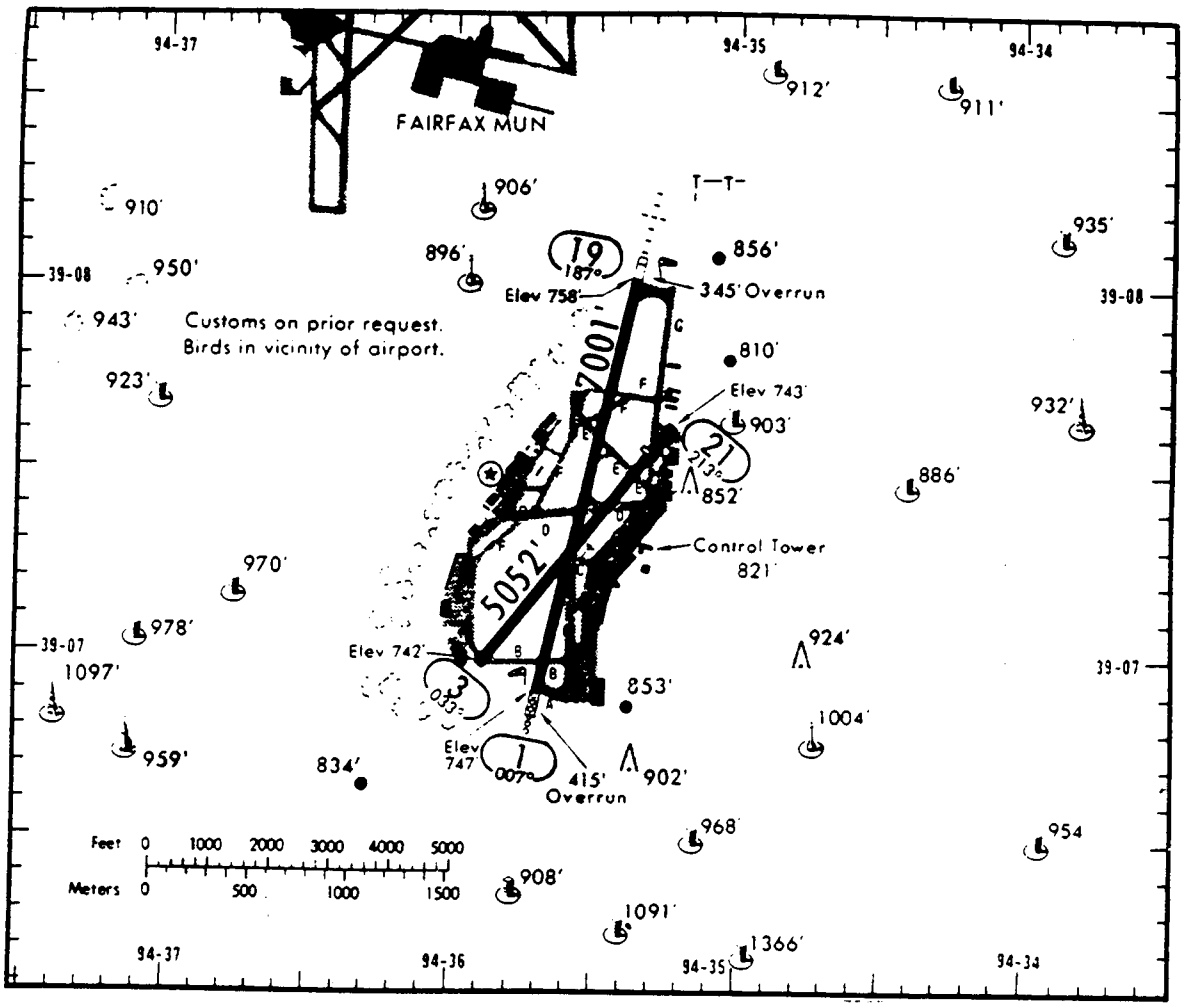
EXISTING		NEW GENERATION	
13	34711	System Elements	QTY REQ'D
JLN	TD		
		Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT 3	
		TRACON –	
		NWS –	
		Other –	
		Total Displays	3

FY 85	CONVERT RVV	R/W 13

KANSAS CITY MO (MKC)

ACE



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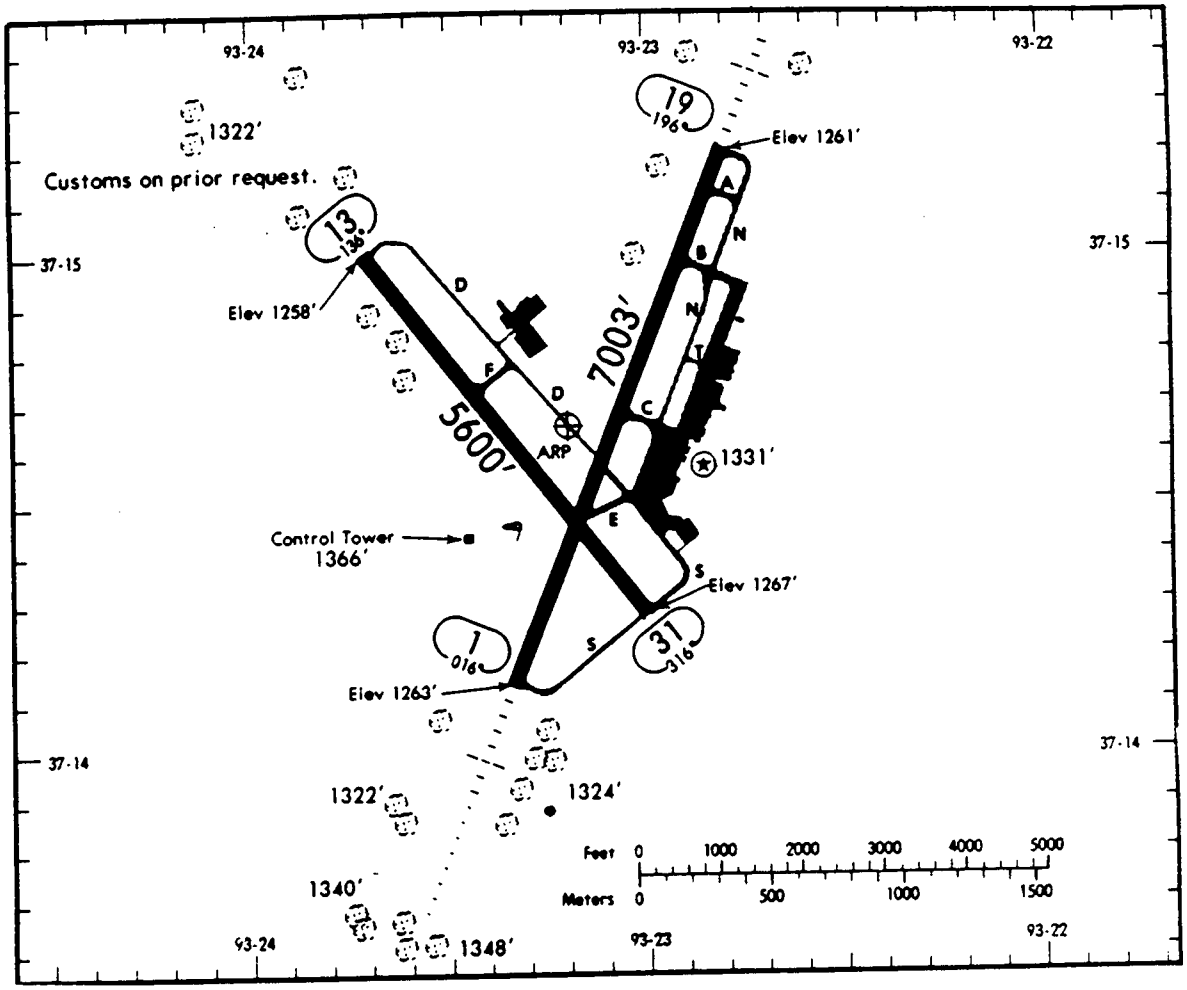
EXISTING		NEW GENERATION	
19	34711	System Elements	QTY REQ'D
MKC	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT 3	
		TRACON –	
		NWS –	
		Other –	
		Total Displays	3

FY 85	CONVERT RVV	R/W 19

ACE

SPRINGFIELD MO (SGF)



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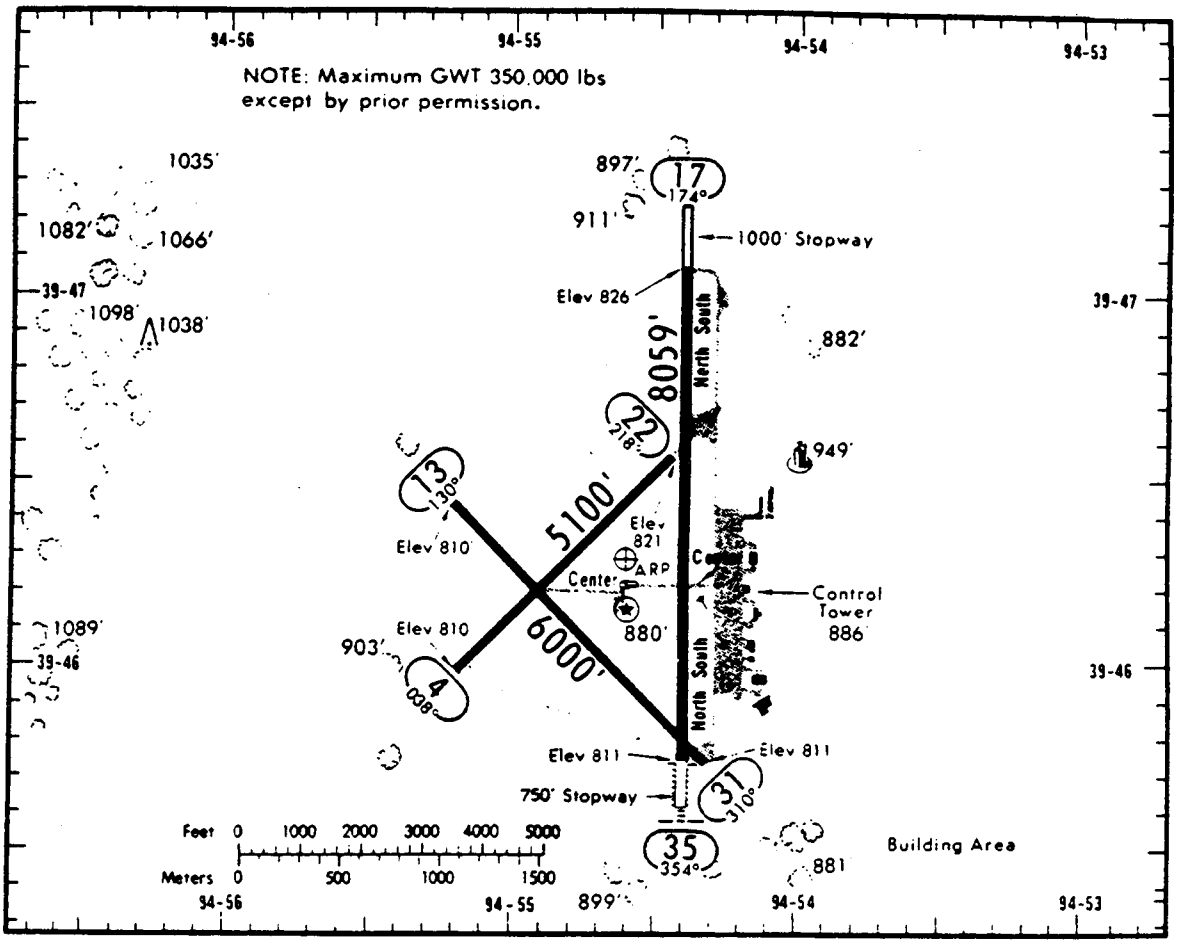
	EXISTING	NEW GENERATION		QTY REQ'D
01	34711	System Elements		
SGF	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		3

FY 85	CONVERT RVV	R/W 01

ST. JOSEPH MO (STJ)

ACE



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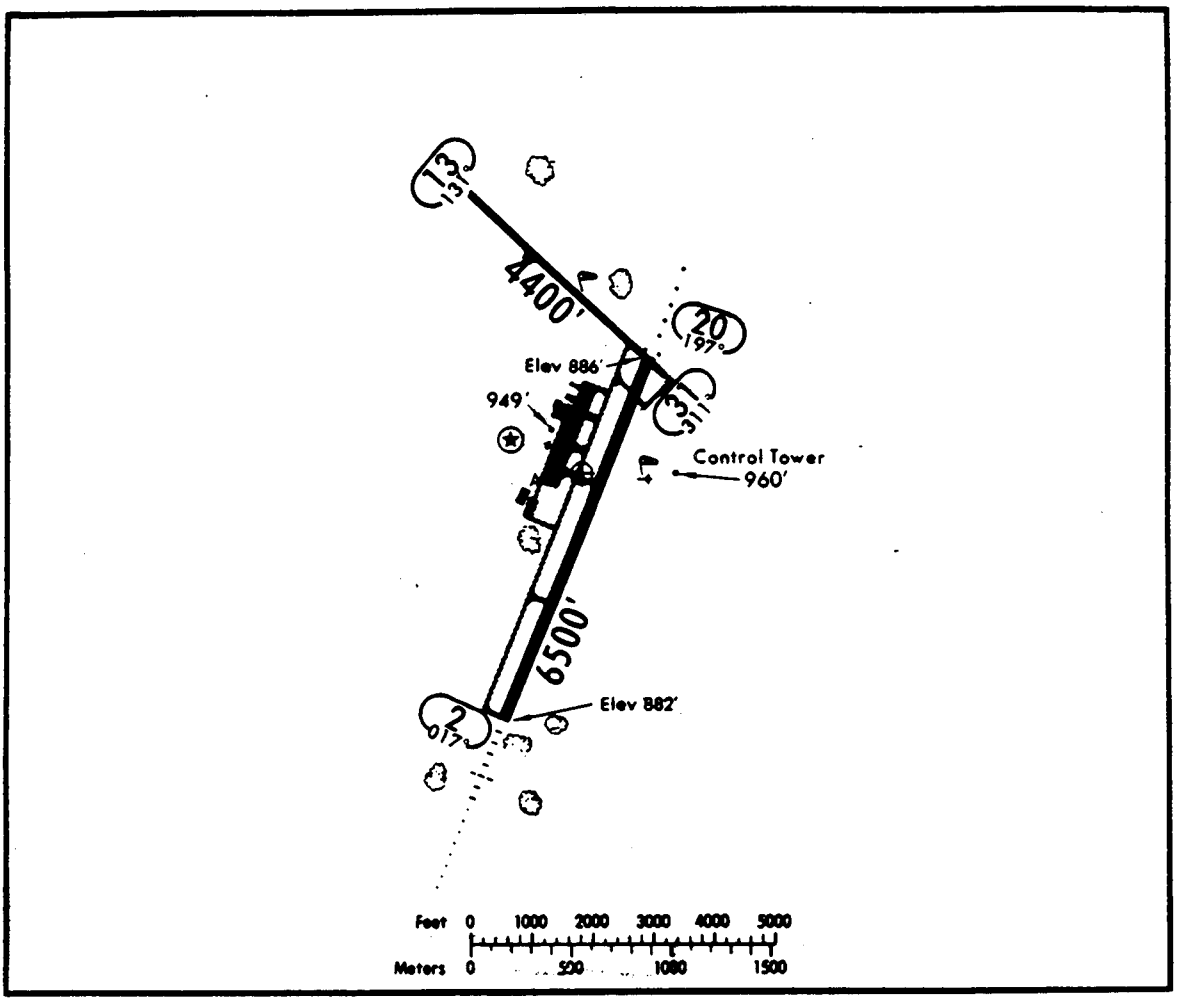
EXISTING		NEW GENERATION		
35	34711	System Elements		QTY REQ'D
STJ	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		3

FY 85	CONVERT RVV	R/W 35

COLUMBIA MO (COU)

ACE



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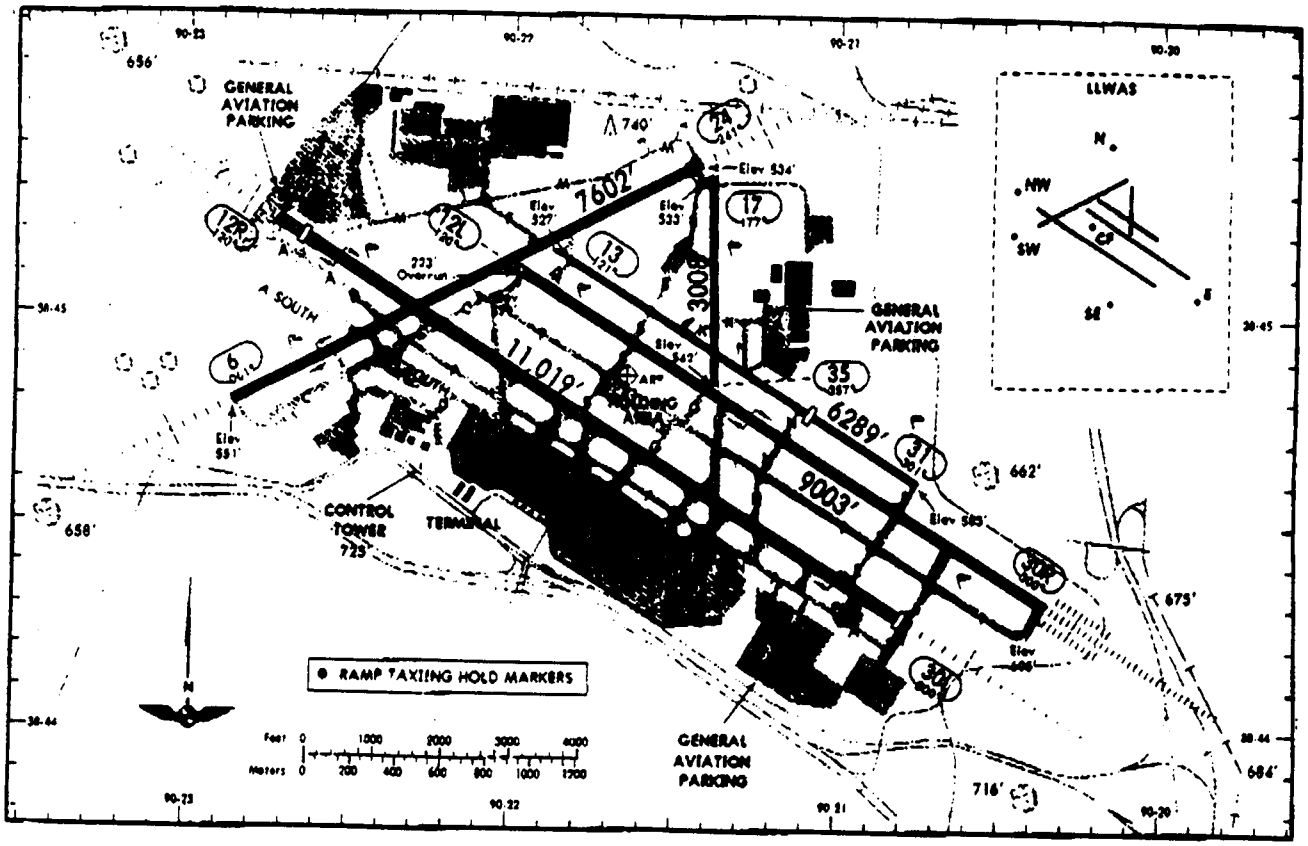
EXISTING	NEW GENERATION
NONE	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	3	
TRACON	–	
NWS	–	
Other	–	
Total Displays		3

FY 86	ESTABLISH	R/W 02

ST. LOUIS MO (STL)

ACE



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EXISTING

30L	347AE
BKY	TD
12R	347AE
LMR	TD
30R	347AE
SJWA	TD
SJWB	MP
SJWC	RO
24	347AE
STL	TD

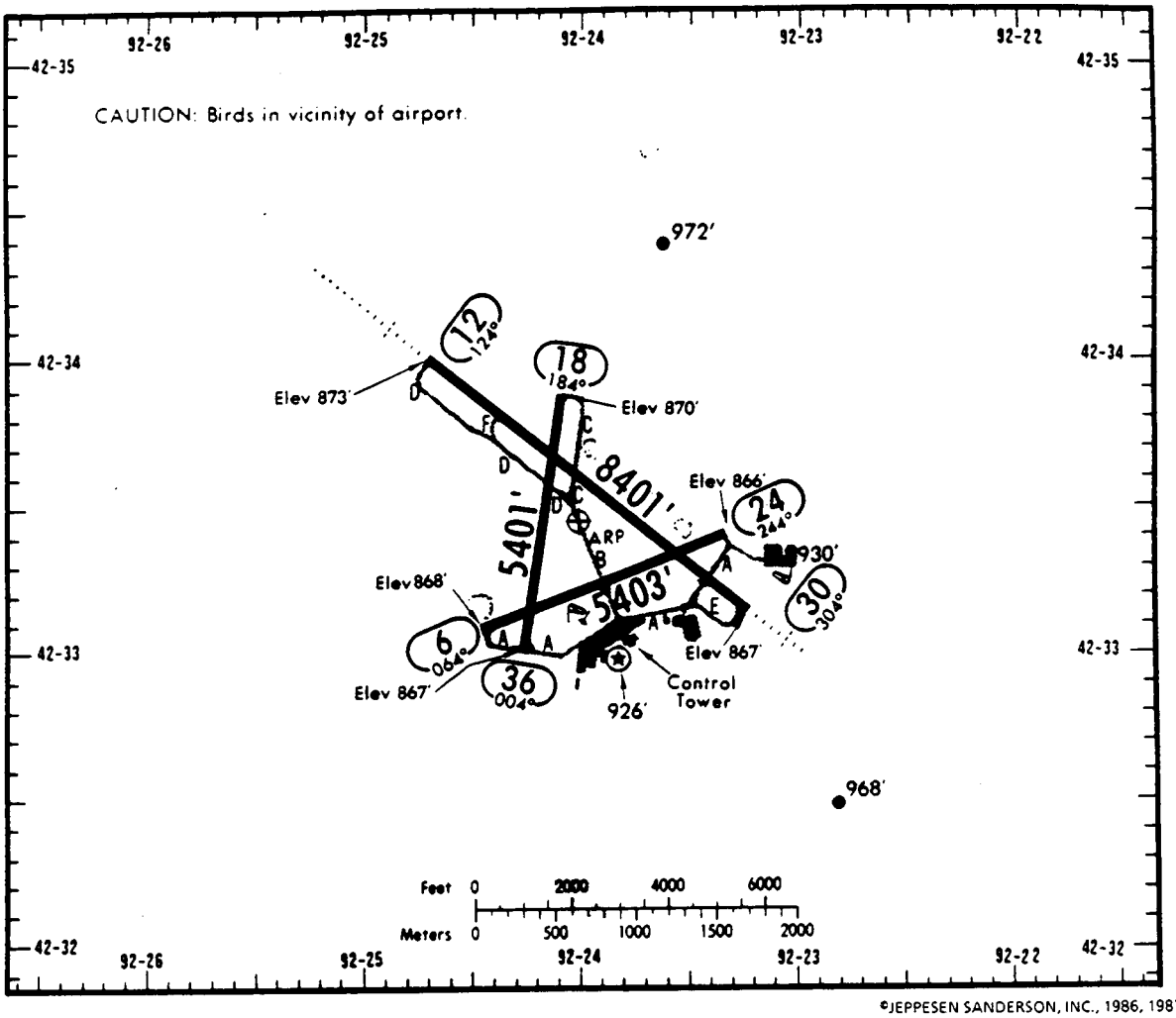
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		5
RLIM		2
Displays		
ATCT	3	
TRACON	2	
NWS	–	
Other	–	
Total Displays		5

FY 93	REPLACE	30L, 30R, 24

WATERLOO IA (ALO)

ACE



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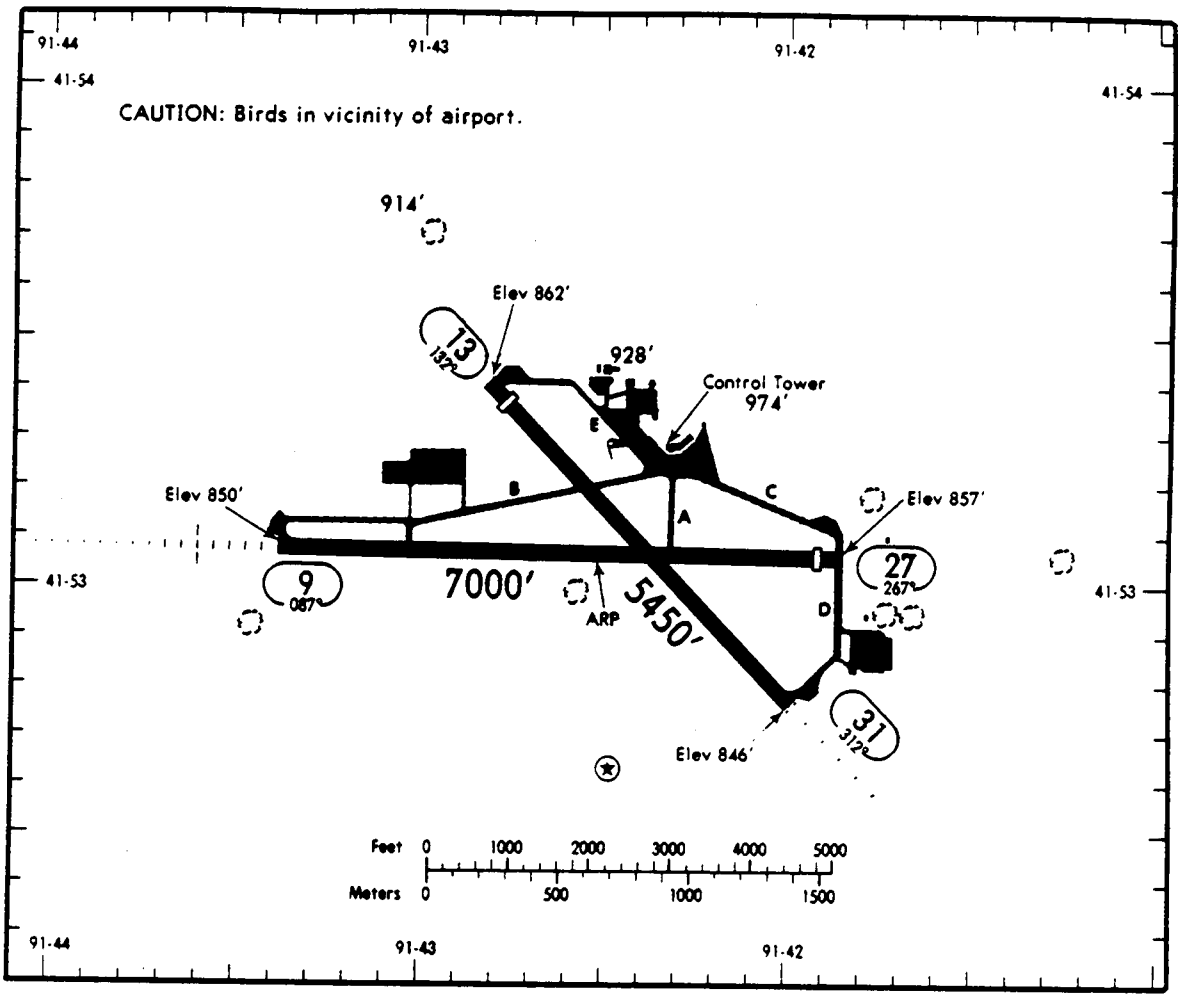
	EXISTING	NEW GENERATION		QTY REQ'D
12	347AE	System Elements		QTY REQ'D
ALO	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 12

CEDAR RAPIDS IA (CID)

ACE



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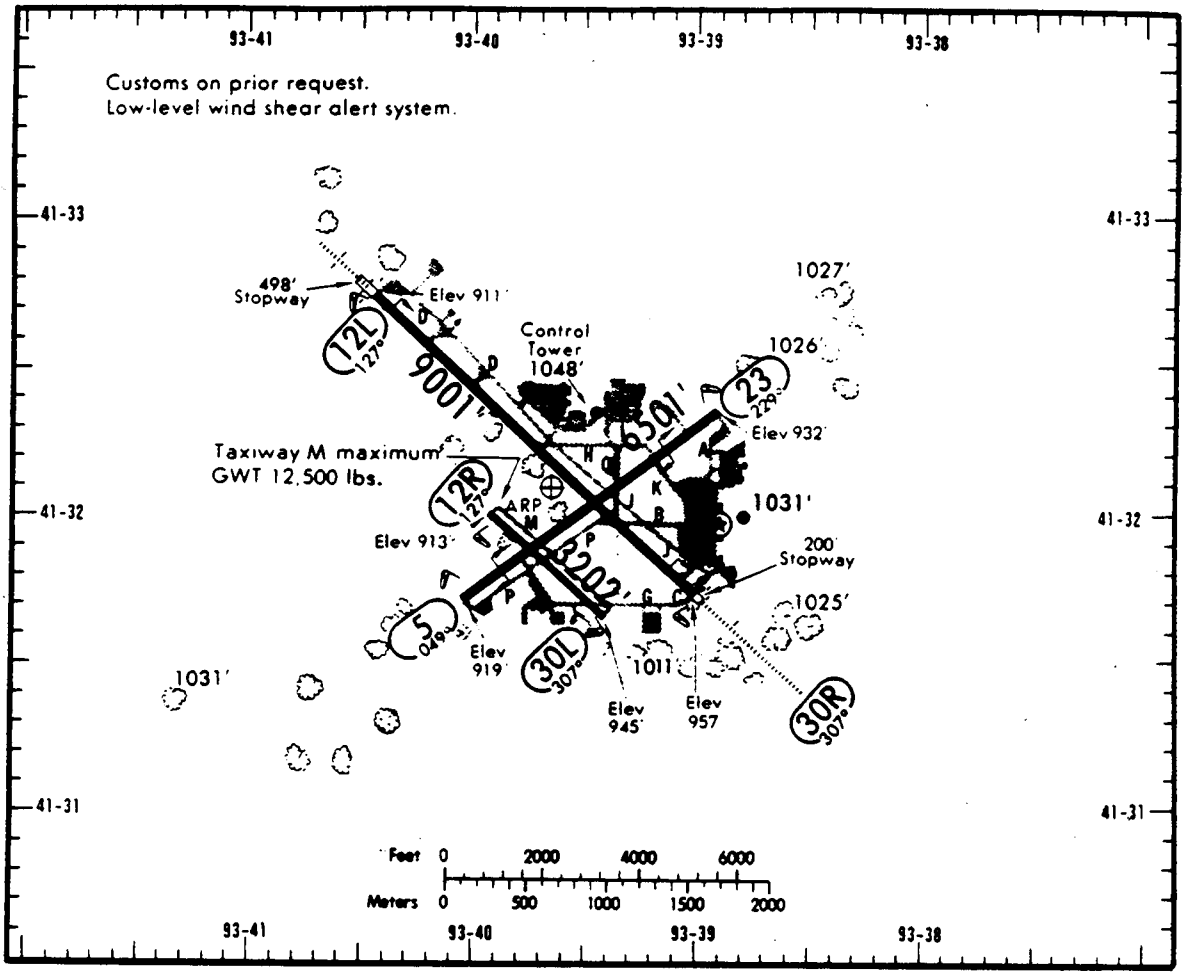
	EXISTING	NEW GENERATION		
09	347AE	System Elements		QTY REQ'D
CID	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	1	
		NWS	–	
		Other		
		Total Displays		3

FY 93	REPLACE	R/W 08

DES MOINES IA (DSM)

ACE



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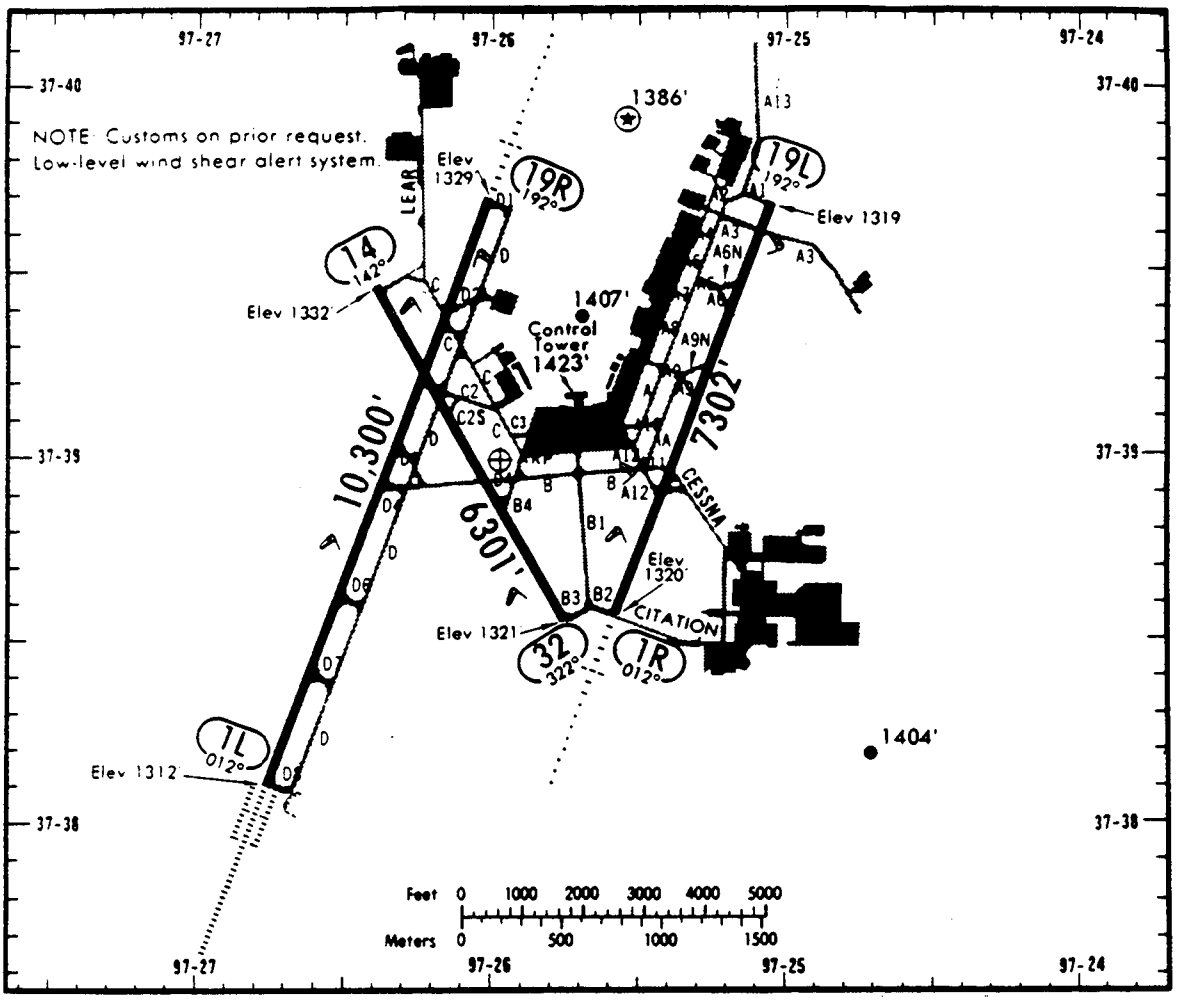
	EXISTING
30R	347AE
DSM	TD
12L	347AE
VGU	TD

NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	–	
Other	–	
Total Displays		4

FY 93	REPLACE	R/W 30R
FY 93	REPLACE	R/W 12L

WICHITA KS (ICT) ACE



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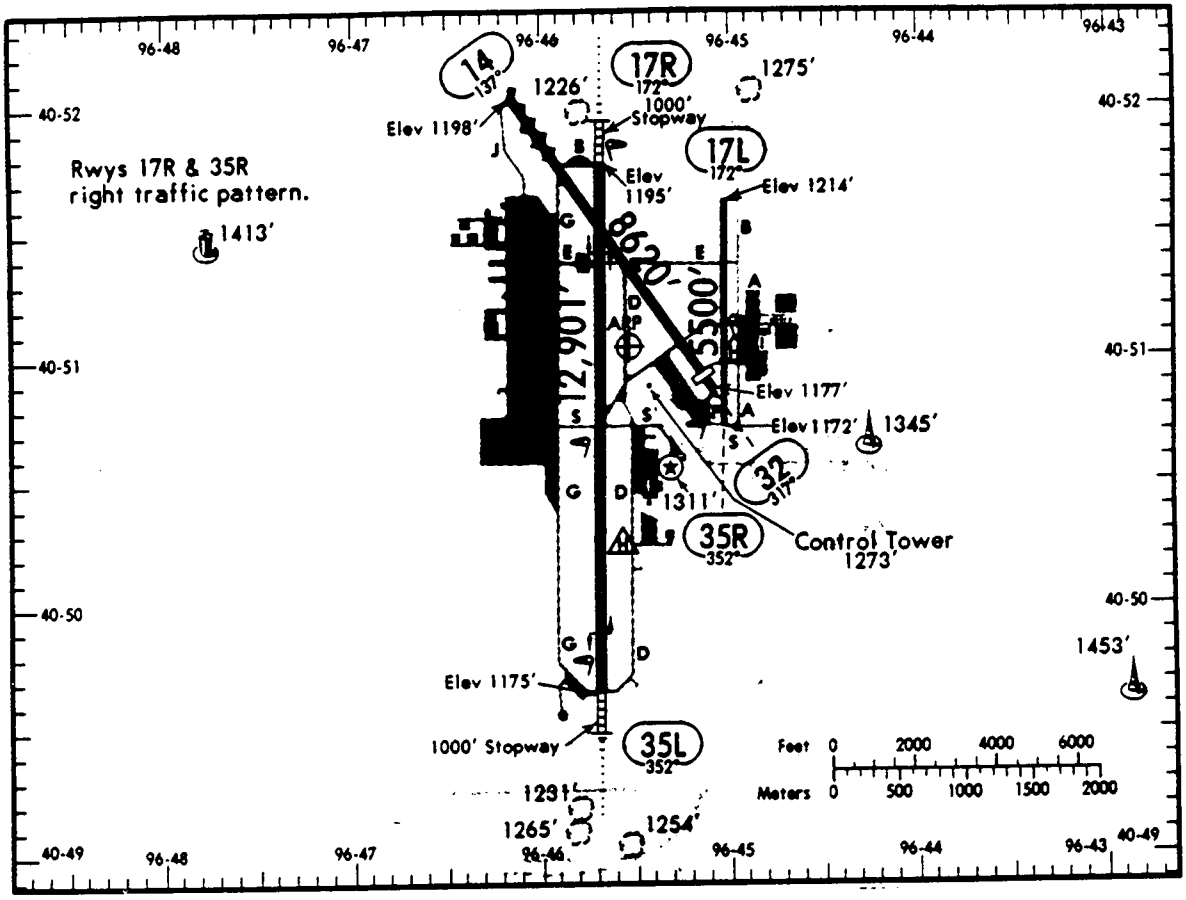
	EXISTING	NEW GENERATION		QTY REQ'D
01R	347AE	System Elements		QTY REQ'D
ICT	TD	Basic		1
		Sensor Packages		3
01L	347AE	RLIM		1
		Displays		
TWI	TD	ATCT	4	
TWIA	MP	TRACON	2	
TWIB	RO	NWS	–	
		Other	–	
		Total Displays		6

FY 93	REPLACE	R/W 01R
FY 93	REPLACE	R/W 01L

LINCOLN NE (LNK)

ACE



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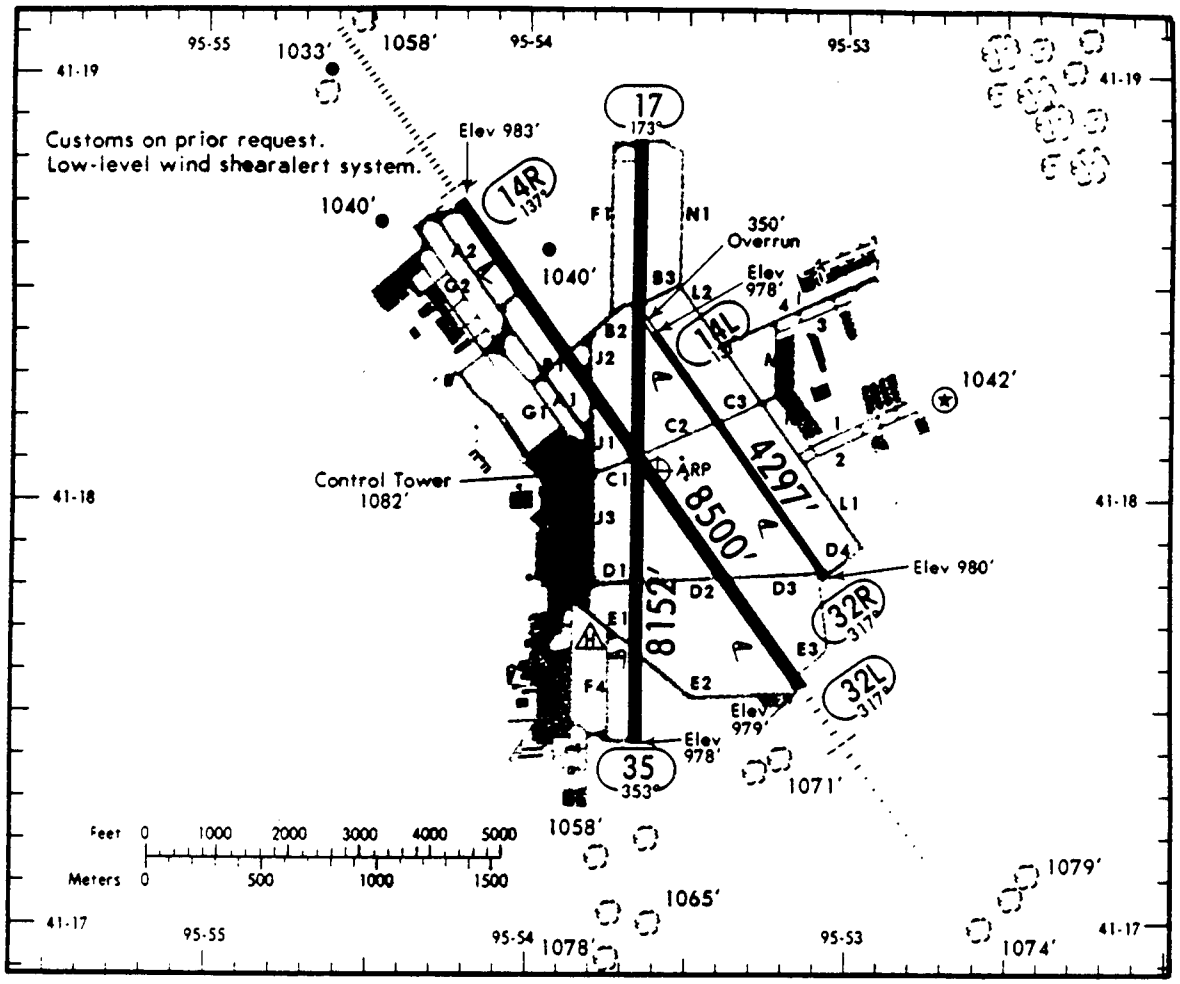
	EXISTING	NEW GENERATION		
35L	347AE	System Elements		QTY REQ'D
LNK	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		1

FY 93	REPLACE	R/W 35L

OMAHA NE (OMA)

ACE



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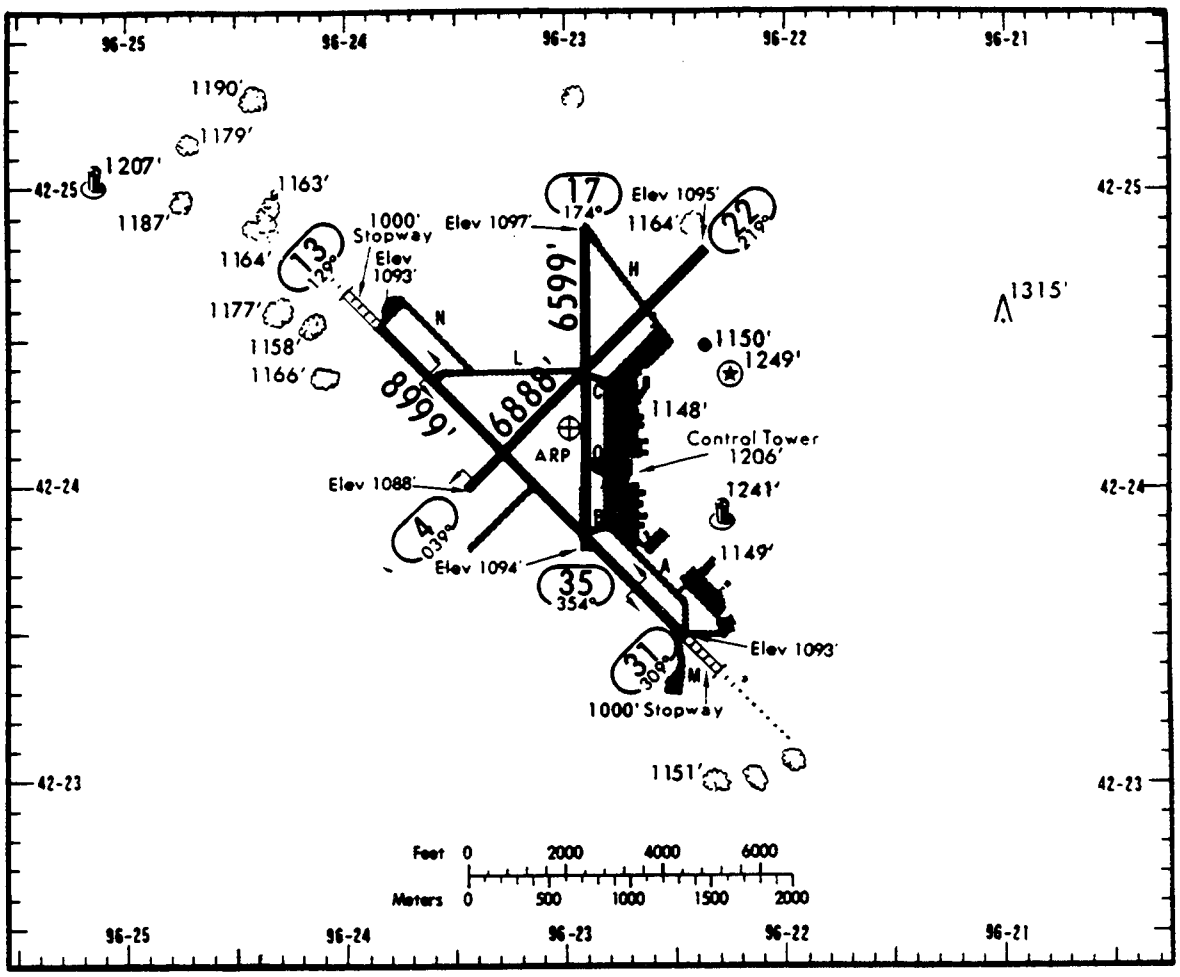
	EXISTING	NEW GENERATION
14R	347AE	
OMA	TD	
OMAA	MP	
OMAB	RO	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		2
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 93	REPLACE	R/W 14R

SIOUX CITY IA (SUX)

ACE



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	EXISTING	NEW GENERATION		
31	347AE	System Elements		QTY REQ'D
SUX	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other		
		Total Displays		1

FY 93	REPLACE	R/W 31

APPENDIX 3. AEA SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

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AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO (AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

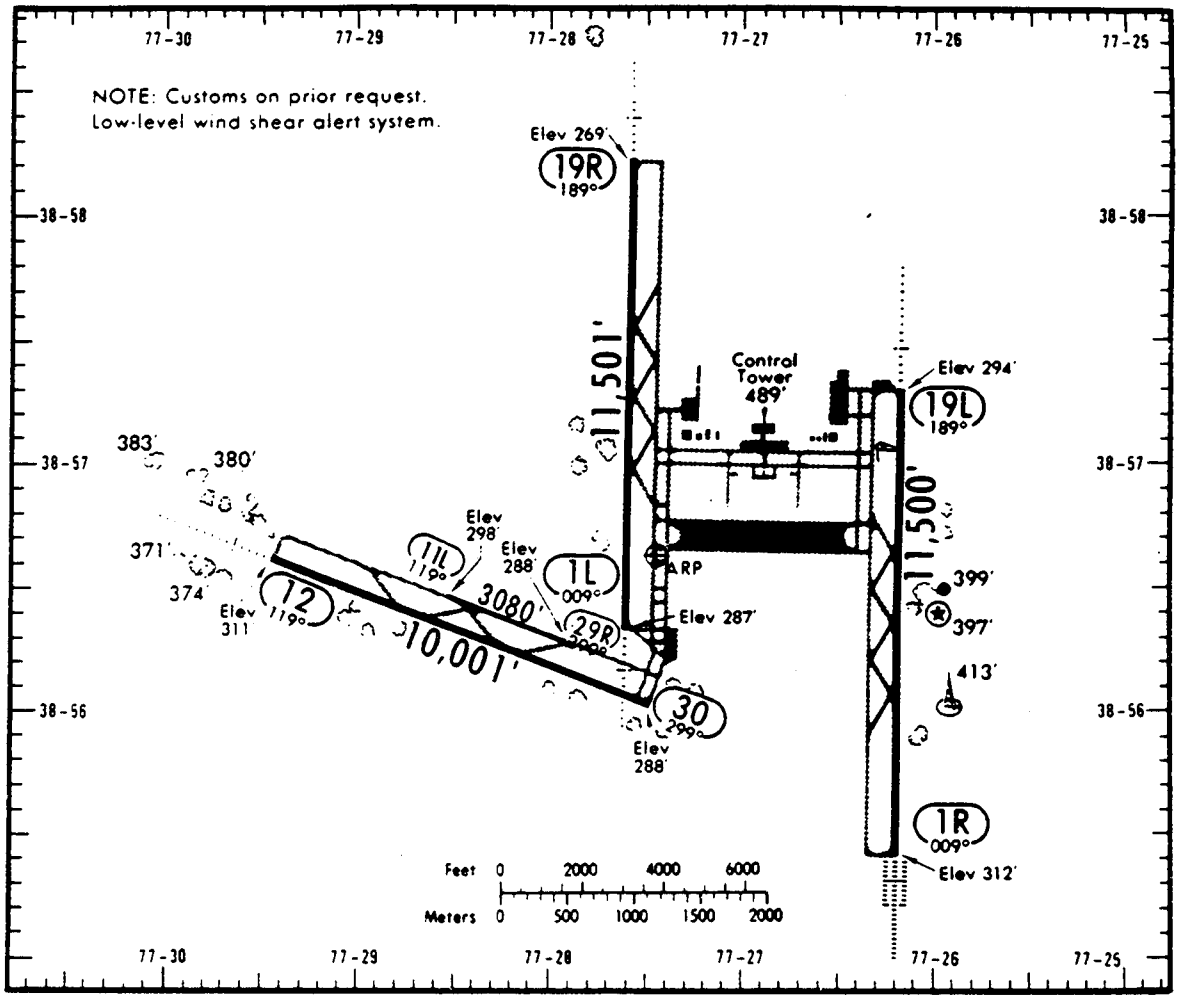
NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

CHANTILLY VA (DULLES-IAD)

AEA



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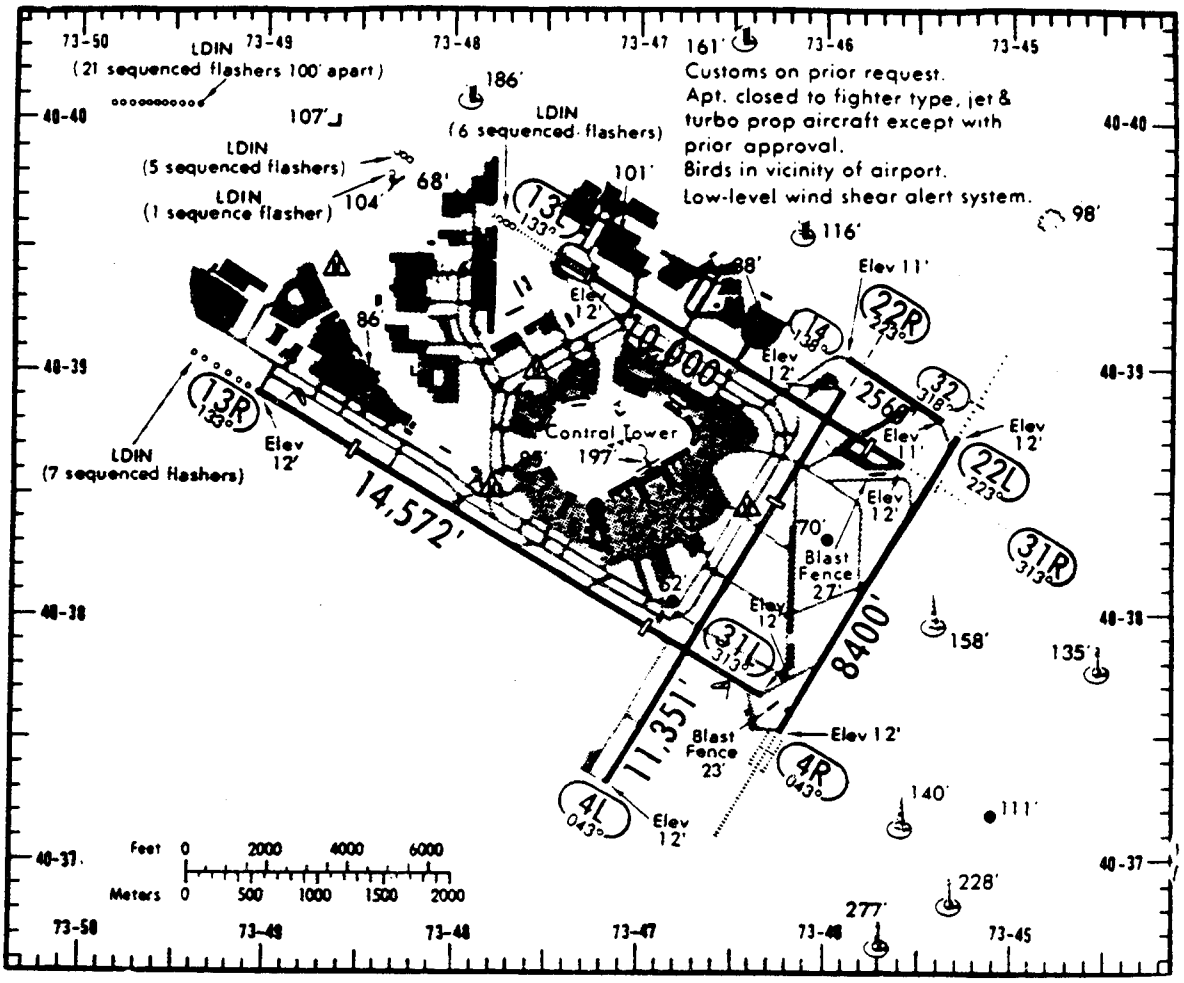
	EXISTING
19R	347AE
DLX	TD
01R	347AE
IAD	TD
IADB	RO
19L	347AE
SGC	MP

NEW GENERATION		
System Elements		QTY REQ'D
Basic		1
Sensor Packages		4
RLIM		2
Displays		
ATCT	3	
TRACON	5	
NWS	1	
Other	–	
Total Displays		9

FY 84	CAT IIIb	R/W 01R/19L
FY 86	ESTABLISH	R/W 12,

NEW YORK NY (JAMAICA - JFK) AEA



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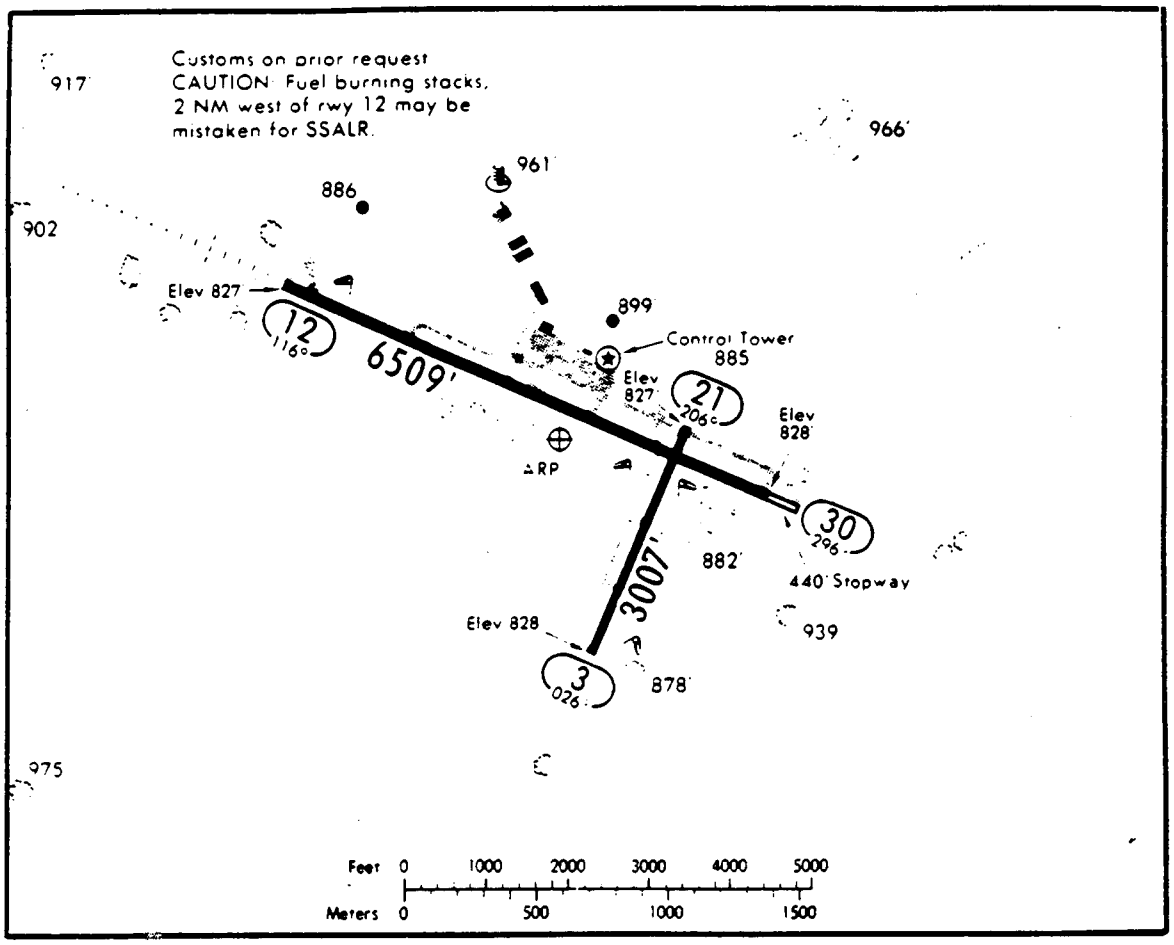
EXISTING	
04L	347AE
H1QA	TD
04R	347AE
JFKA	TD
JFKM	MP
JFKR	RO
13R	347AE
QPPA	TD
QPPM	MP
QPPR	RO
13L	347AE
TLKA	TD
TLKR	RO

NEW GENERATION		
System Elements		QTY REQ'D
Basic		1
Sensor Packages		8
RLIM		3
Displays		
ATCT	3	
TRACON	–	
NWS	1	
Other	19	
Total Displays		23

FY 84	CAT IIIb	R/W 04R

HUNTINGTON WV (HTS)

AEA



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EXISTING

NONE

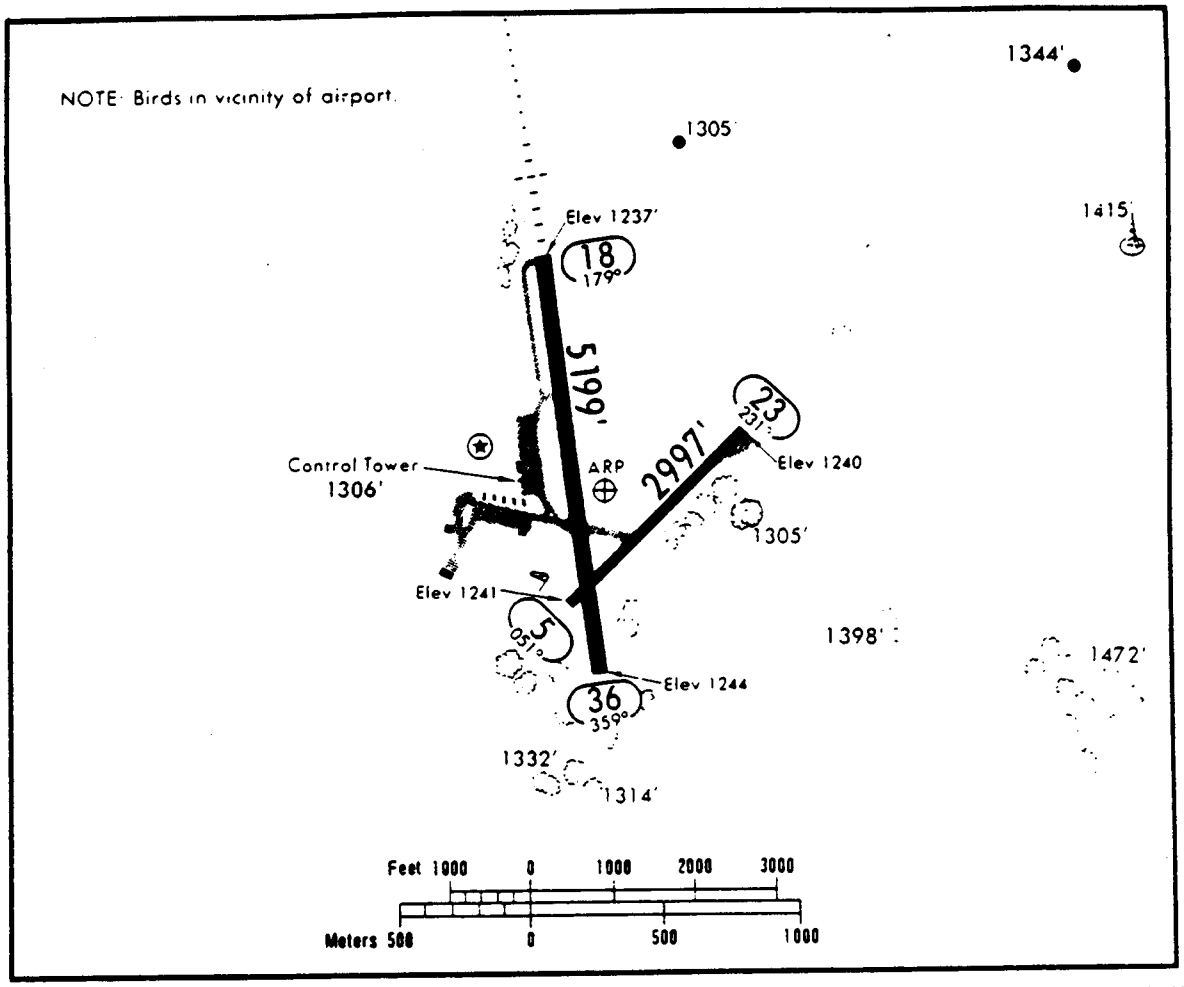
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 12

MORGANTOWN WV (MGW)

AEA



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EXISTING

NONE

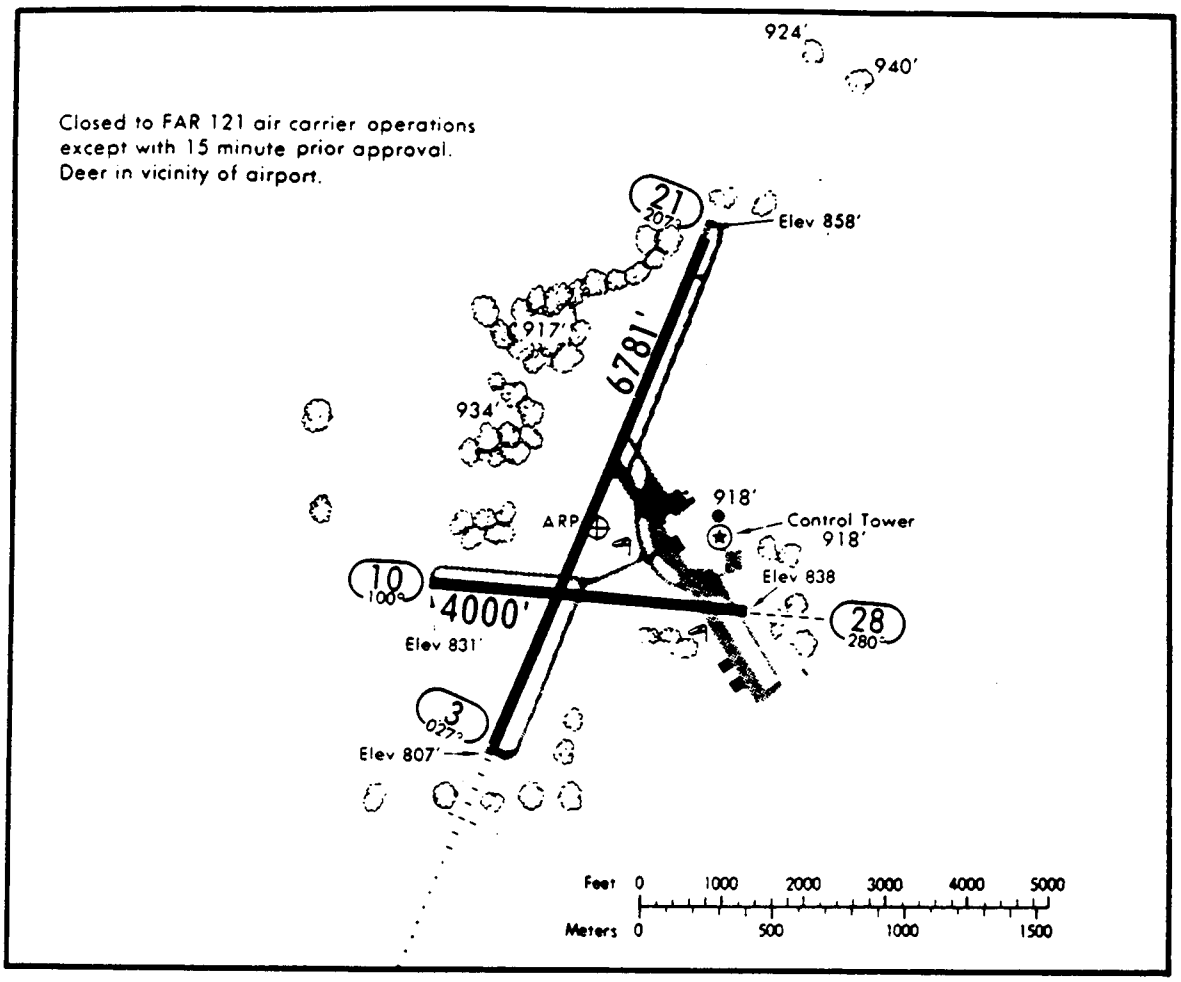
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 18

PARKERSBURG WV (PKB)

AEA



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EXISTING

NONE

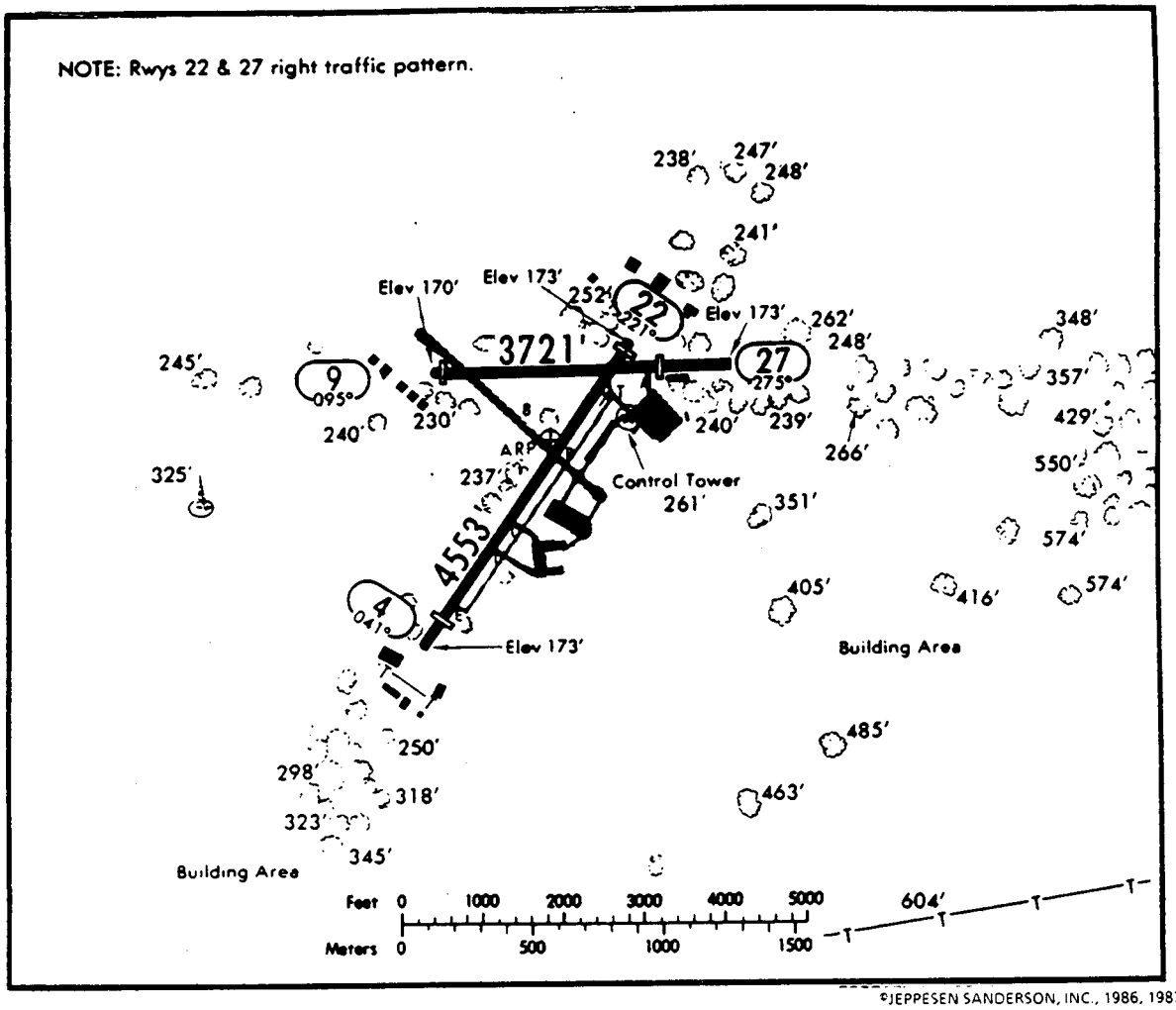
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 03

CALDWELL NJ (CDW)

AEA



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EXISTING

NONE

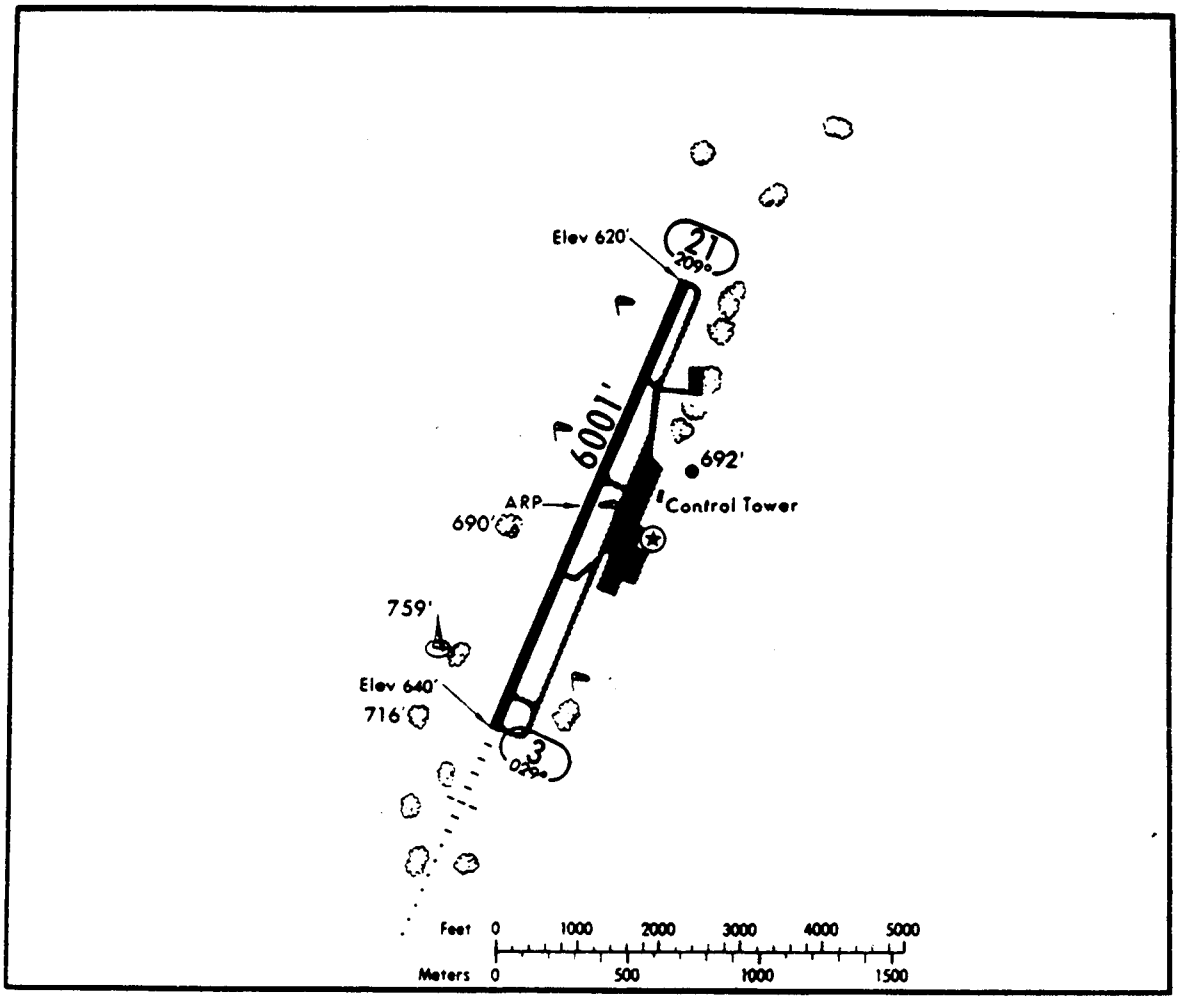
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 22

CHARLOTTESVILLE VA (CHO)

AEA



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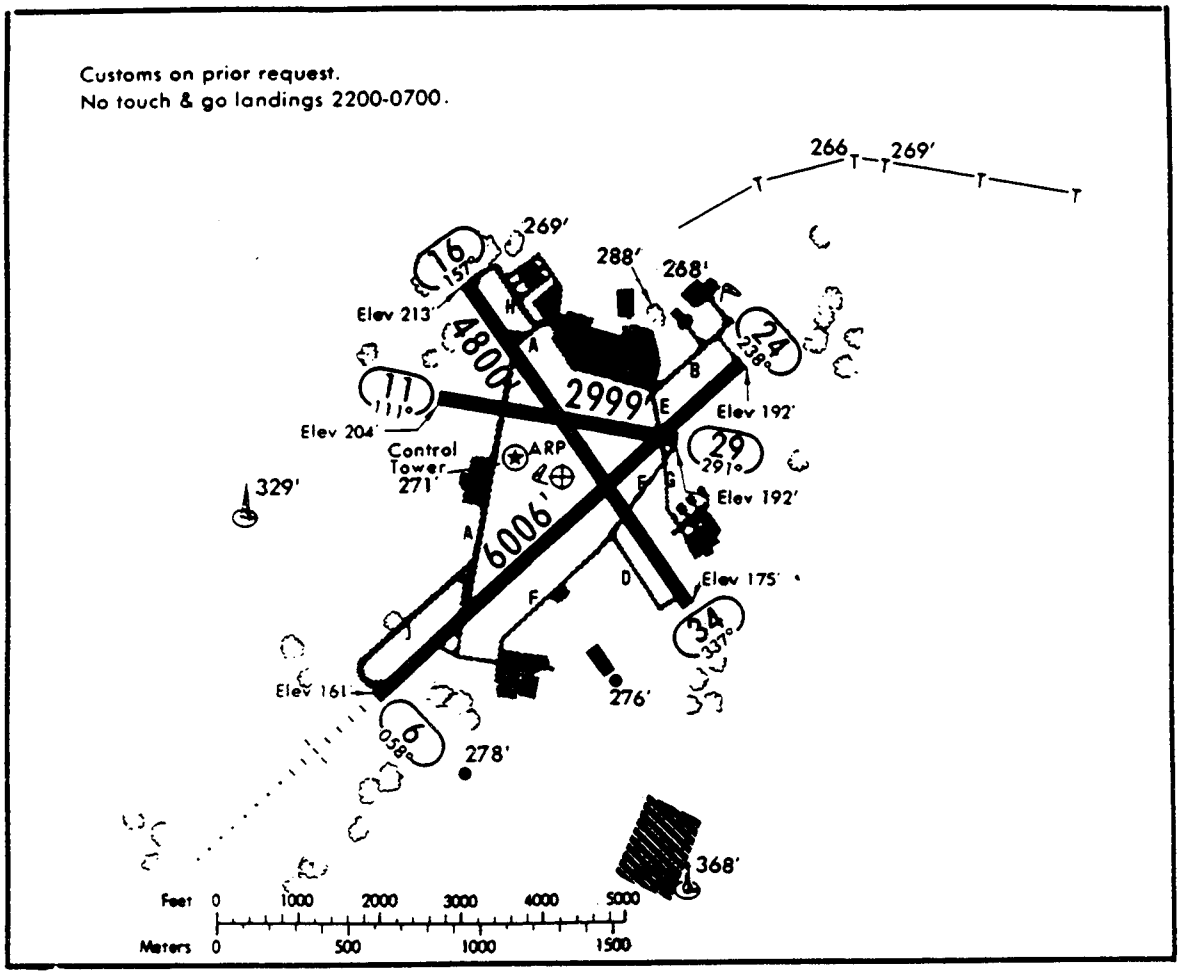
EXISTING	NEW GENERATION
NONE	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 03

TRENTON NJ (TTN) AEA



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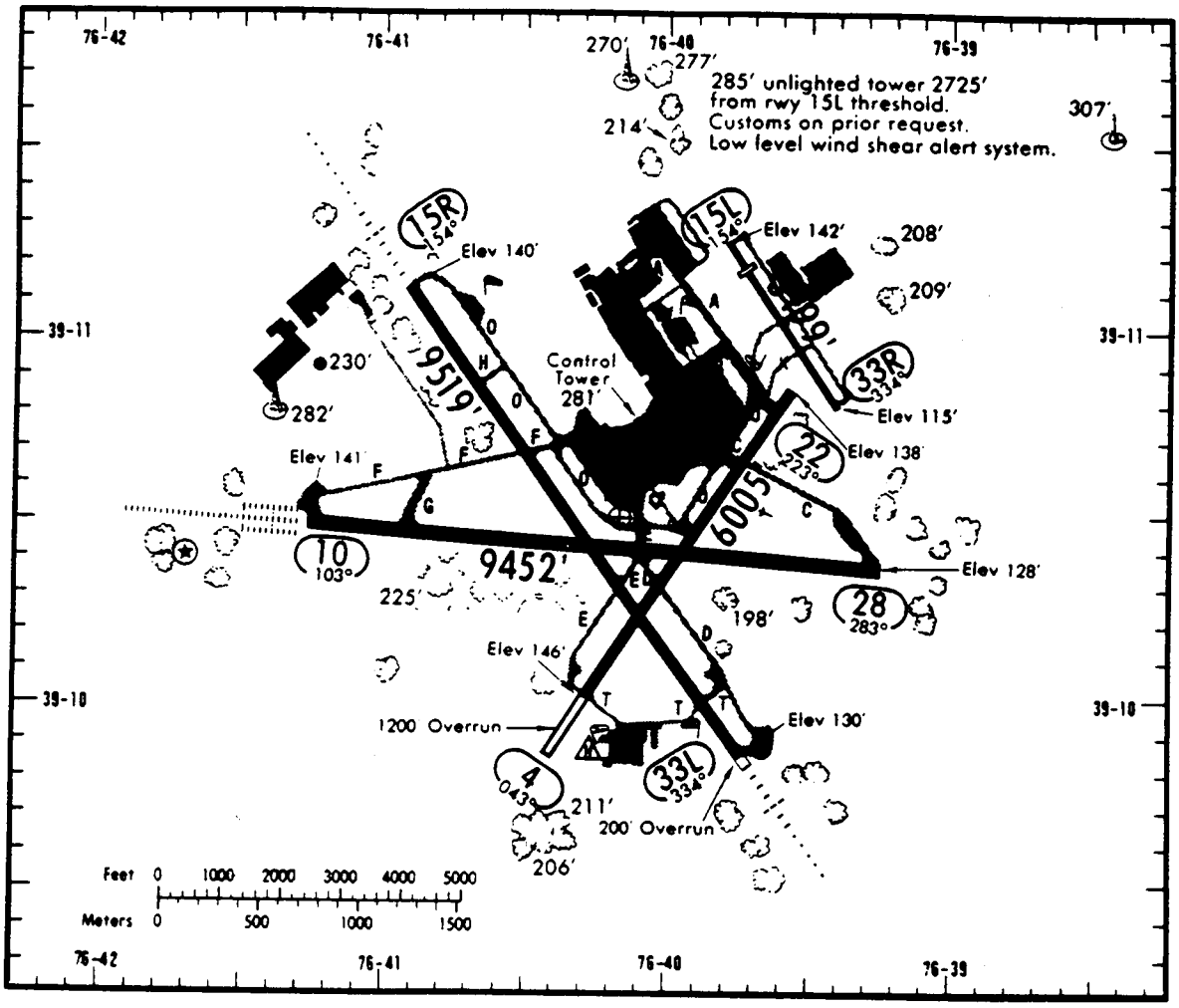
EXISTING	NEW GENERATION
NONE	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS		
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 06

BALTIMORE MD (BWI)

AEA



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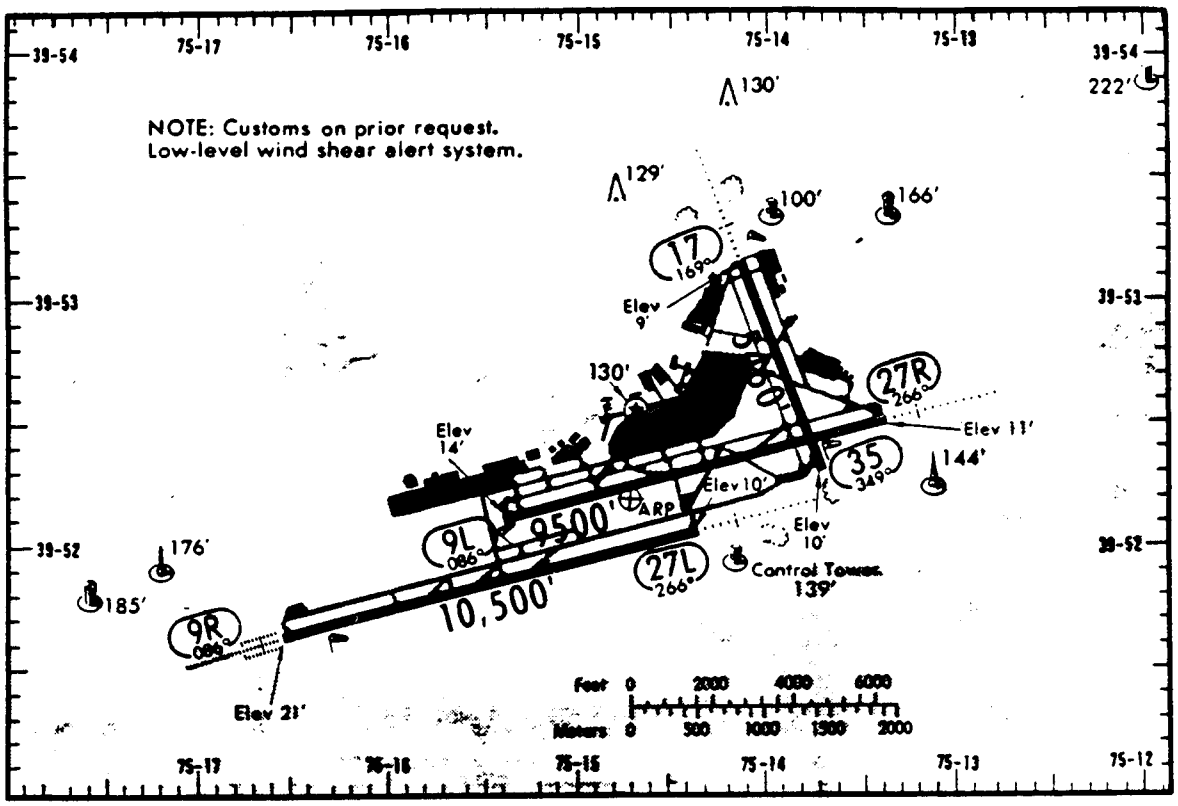
EXISTING		NEW GENERATION		
10	347AD	System Elements		QTY REQ'D
BALM	MP	Basic		1
BALT	TD	Sensor Packages		3
BALR	RO	RLIM		1
		Displays		
15R	347AD	ATCT	2	
		TRACON	2	
FND	TD	NWS	1	
		Other	–	
		Total Displays		5

FY 85	REPLACE	R/W 10

PHILADELPHIA PA (PHL)

AEA



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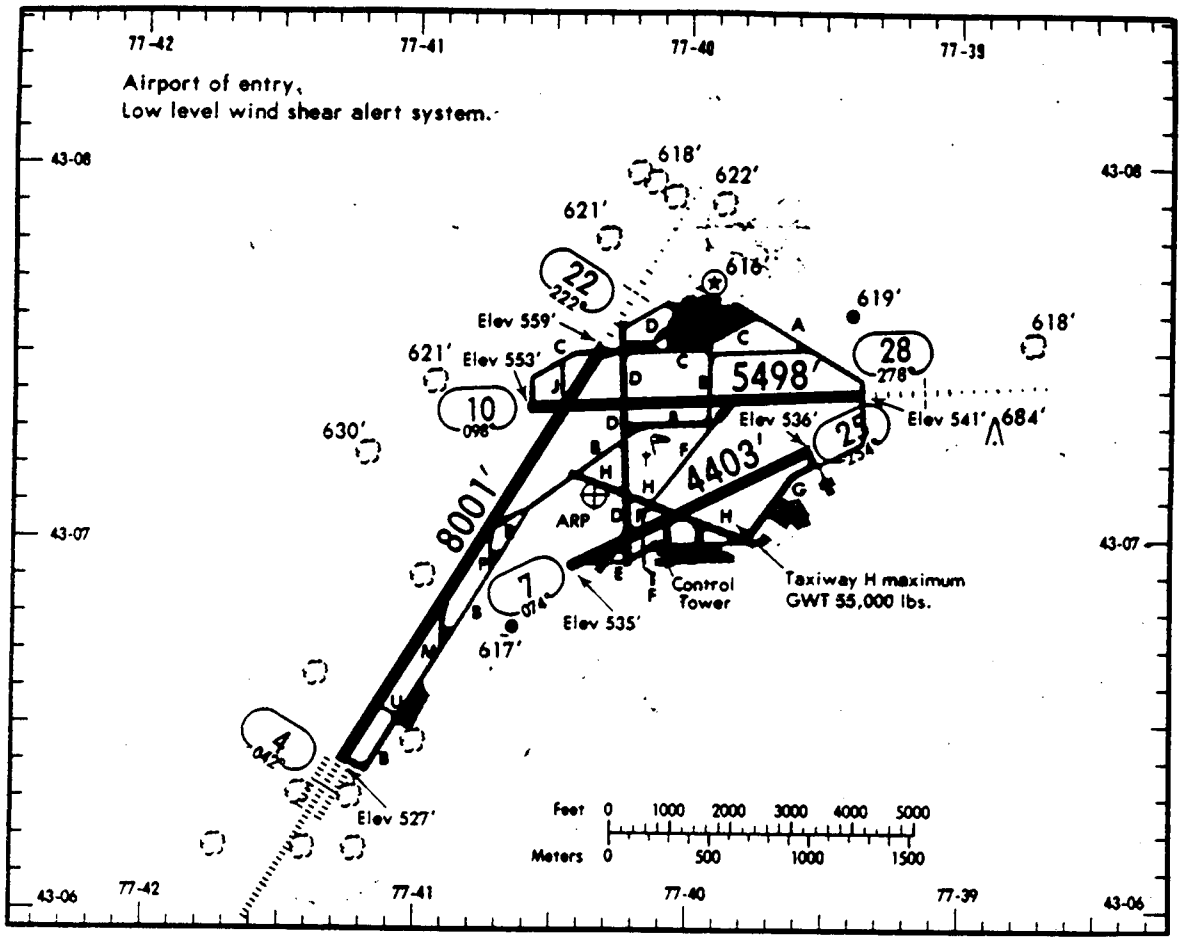
	EXISTING
27R	347AC
PDP	TD
09R	347AC
PHLA	TD
PHLR	RO
09R	347AD
PHLM	MP

NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	3	
TRACON	2	
NWS	1	
Other	–	
Total Displays		6

FY 85	REPLACE	R/W 9R, 27R

ROCHESTER NY (ROC) AEA



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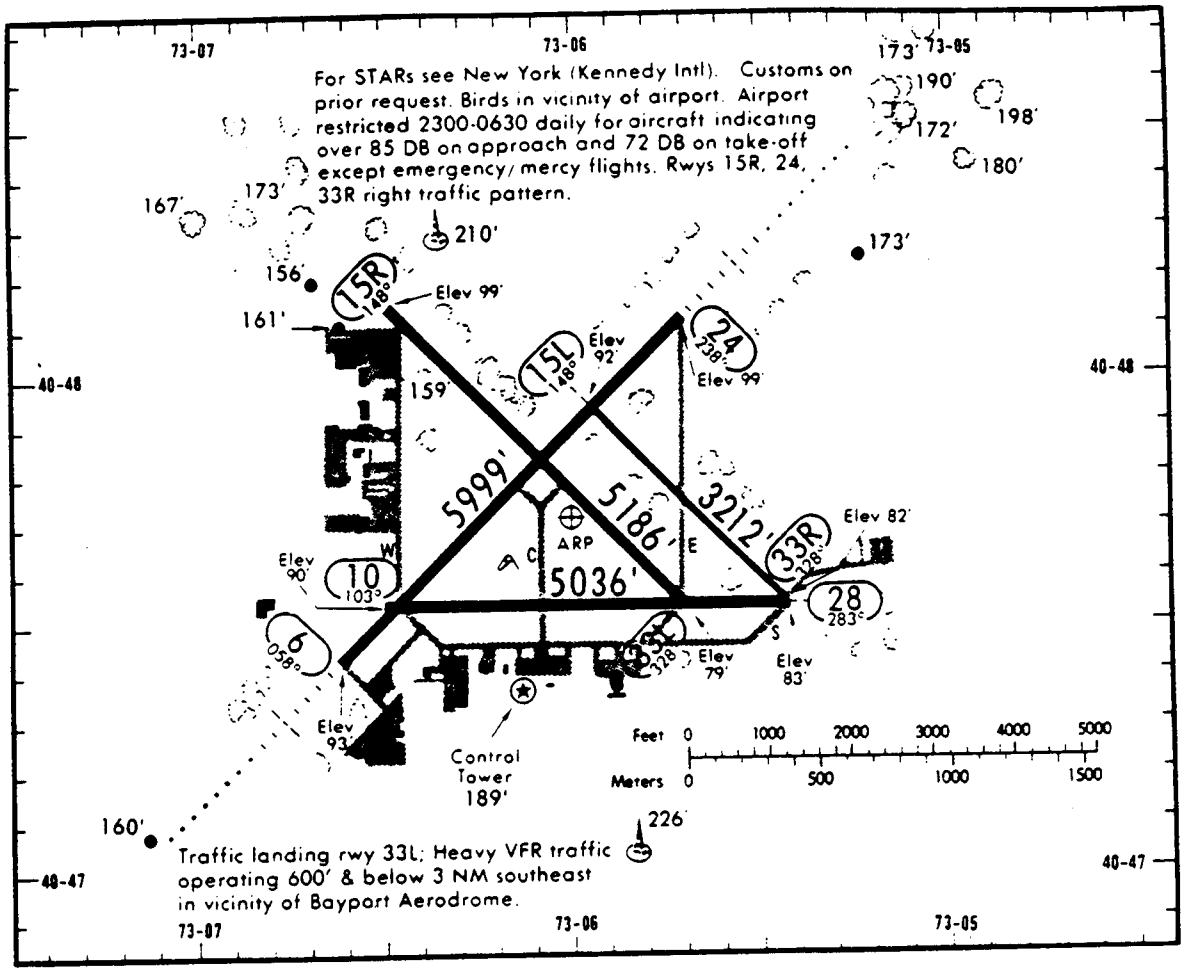
	EXISTING		NEW GENERATION		
04	347AC		System Elements		QTY REQ'D
MCU	TD		Basic		1
			Sensor Packages		2
22	347AC		RLIM		1
MWD	TD		Displays		
			ATCT	1	
28	347AC		TRACON	2	
ROC	TD		NWS	1	
			Other	–	
			Total Displays		4

FY 85	REPLACE	R/W 04/22, 28

ISLIP NY (ISP)



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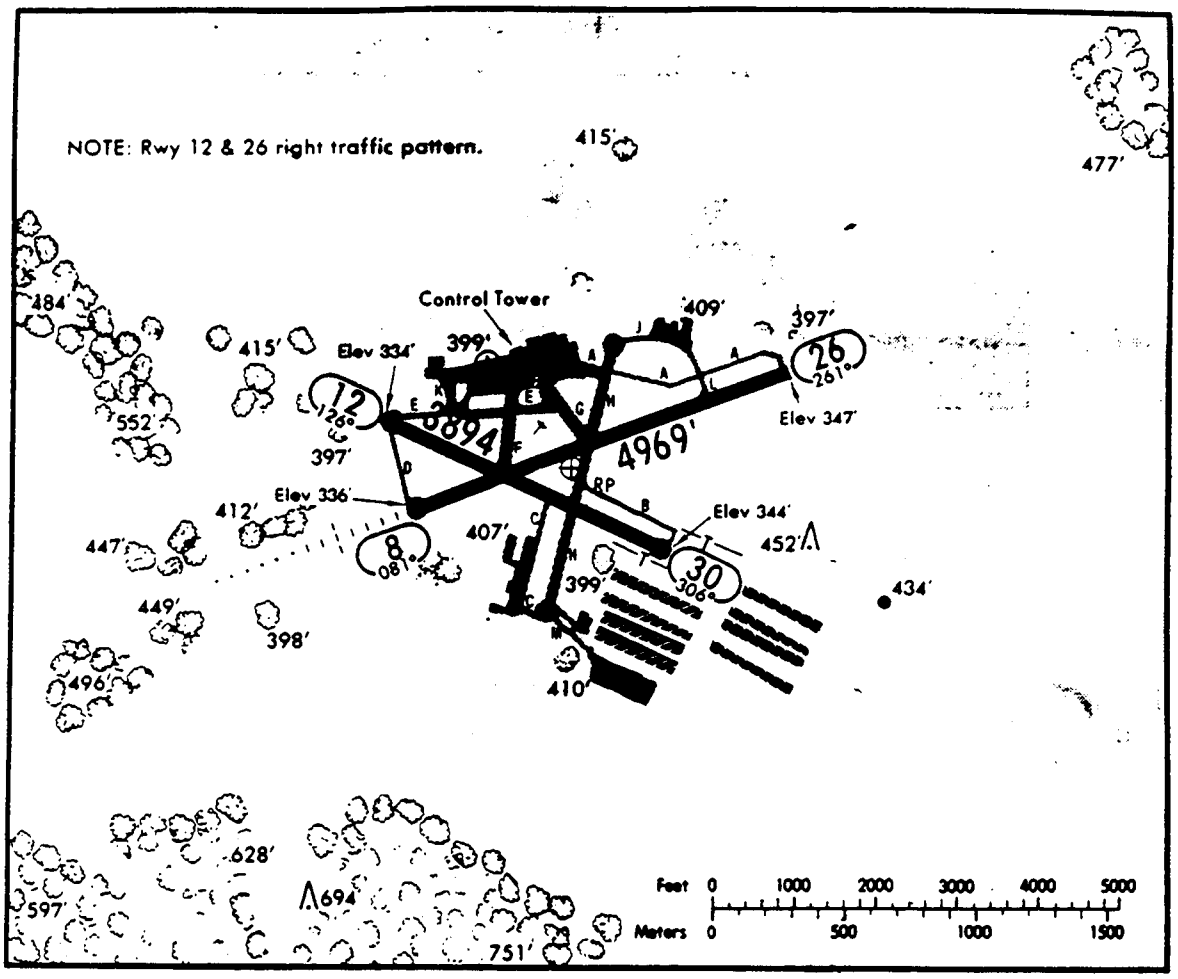
	EXISTING	NEW GENERATION
06	347AG	
ISP	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	–	
Other	–	
Total Displays		1

FY 85	CONVERT RVV	R/W 06

HARRISBURG PA (CXY) AEA



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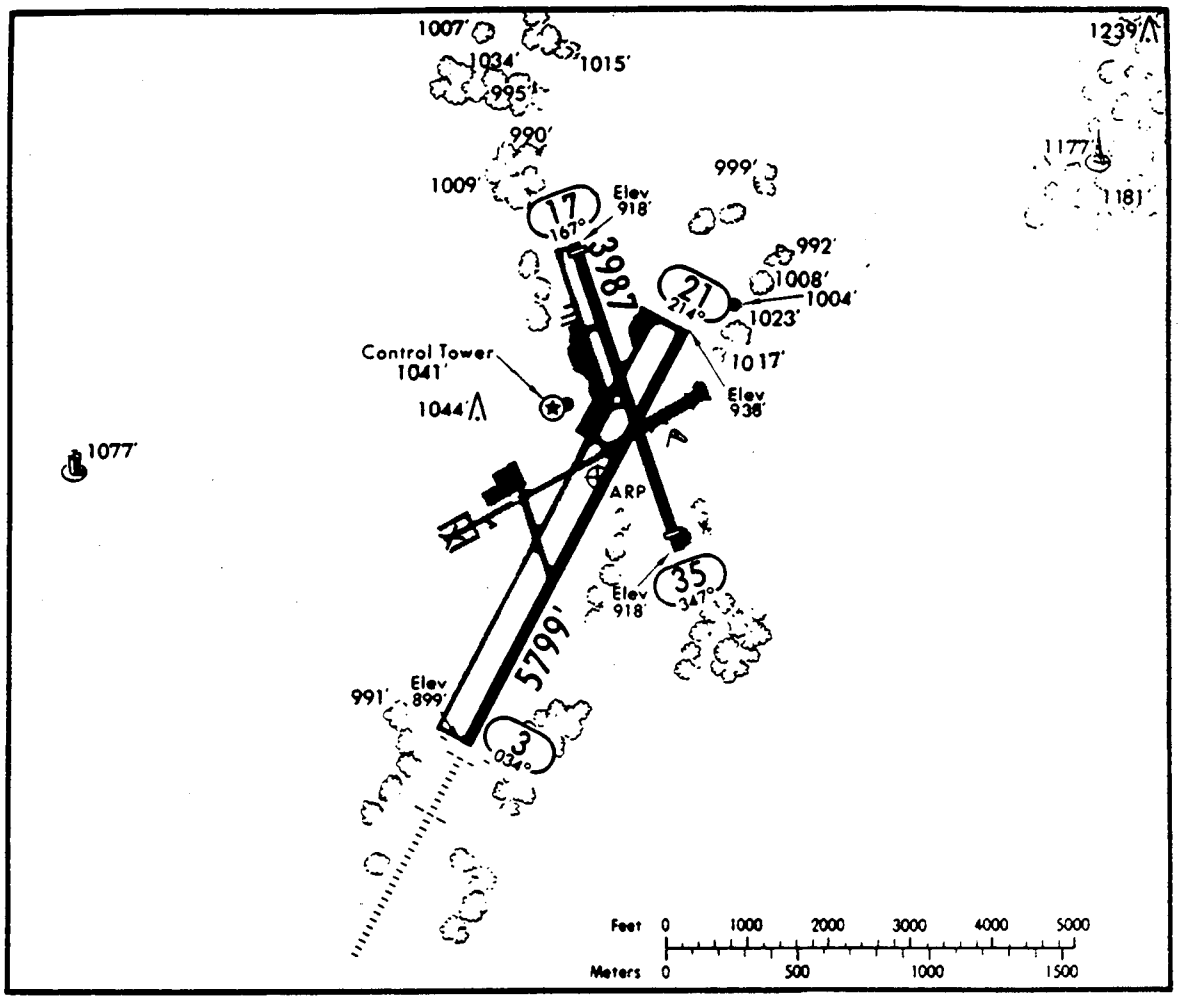
EXISTING		NEW GENERATION		
08	347AG	System Elements		QTY REQ'D
CXY	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		2

FY 85	CONVERT RVV	R/W 08

AEA

LYNCHBURG VA (LYH)



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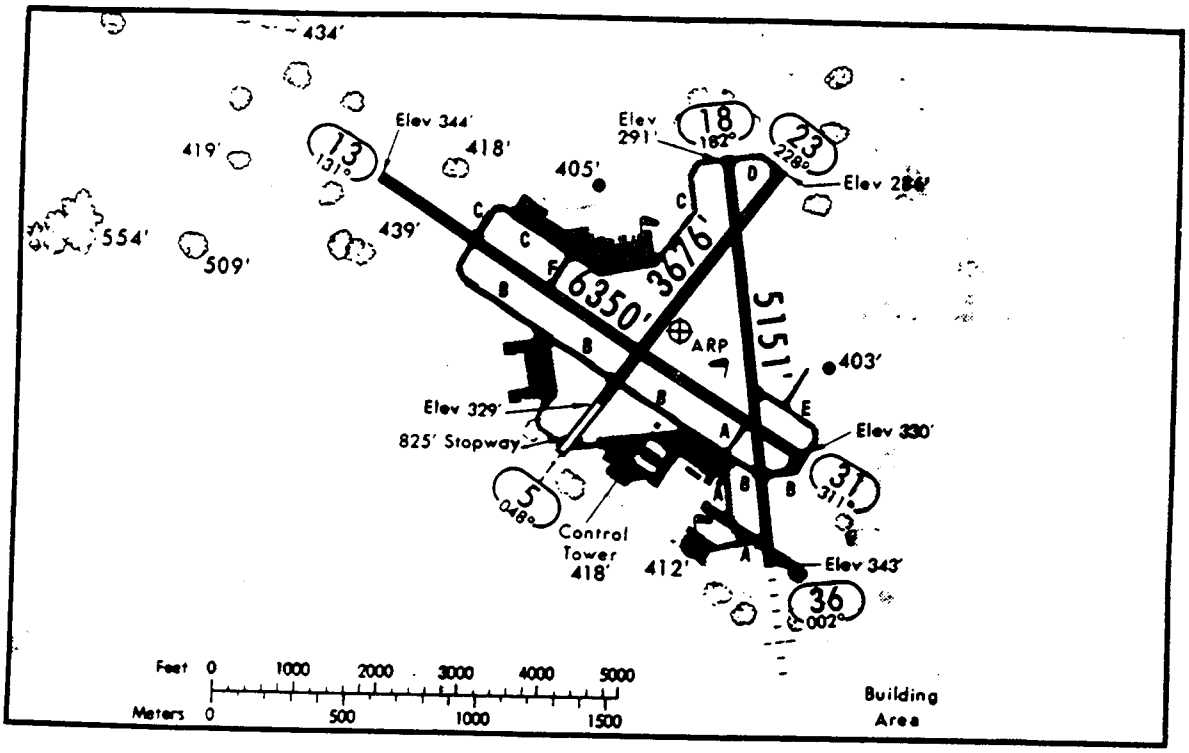
	EXISTING	NEW GENERATION		
03	347AE	System Elements		QTY REQ'D
LYH	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 85	CONVERT RVV	R/W 03

READING PA (RDG)

AEA



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	EXISTING
36	347AG
RDG	TD

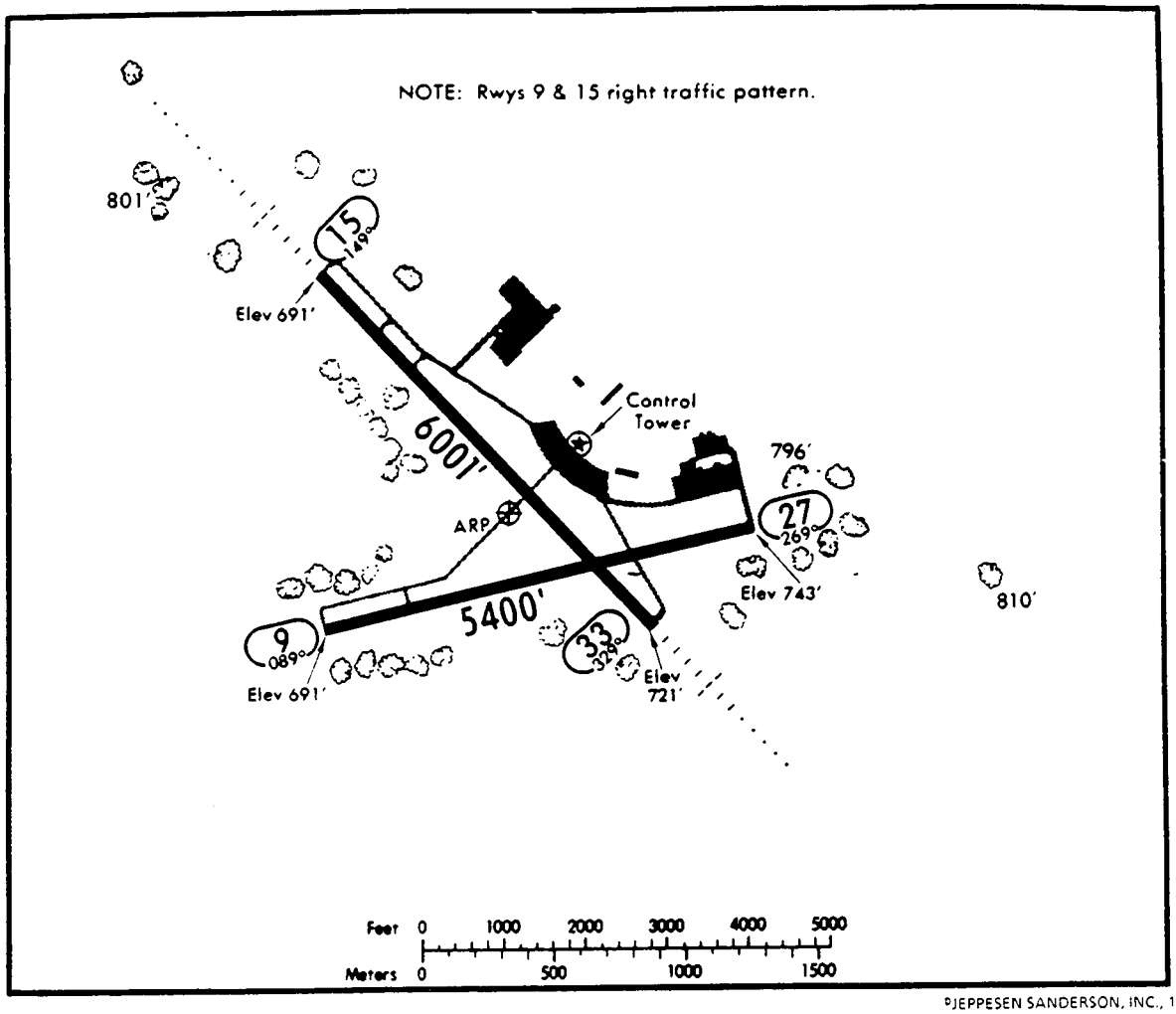
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	3	
TRACON	–	
NWS	–	
Other	–	
Total Displays		3

FY 85	CONVERT RVV	R/W 36

AEA

UTICA NY (UCA)



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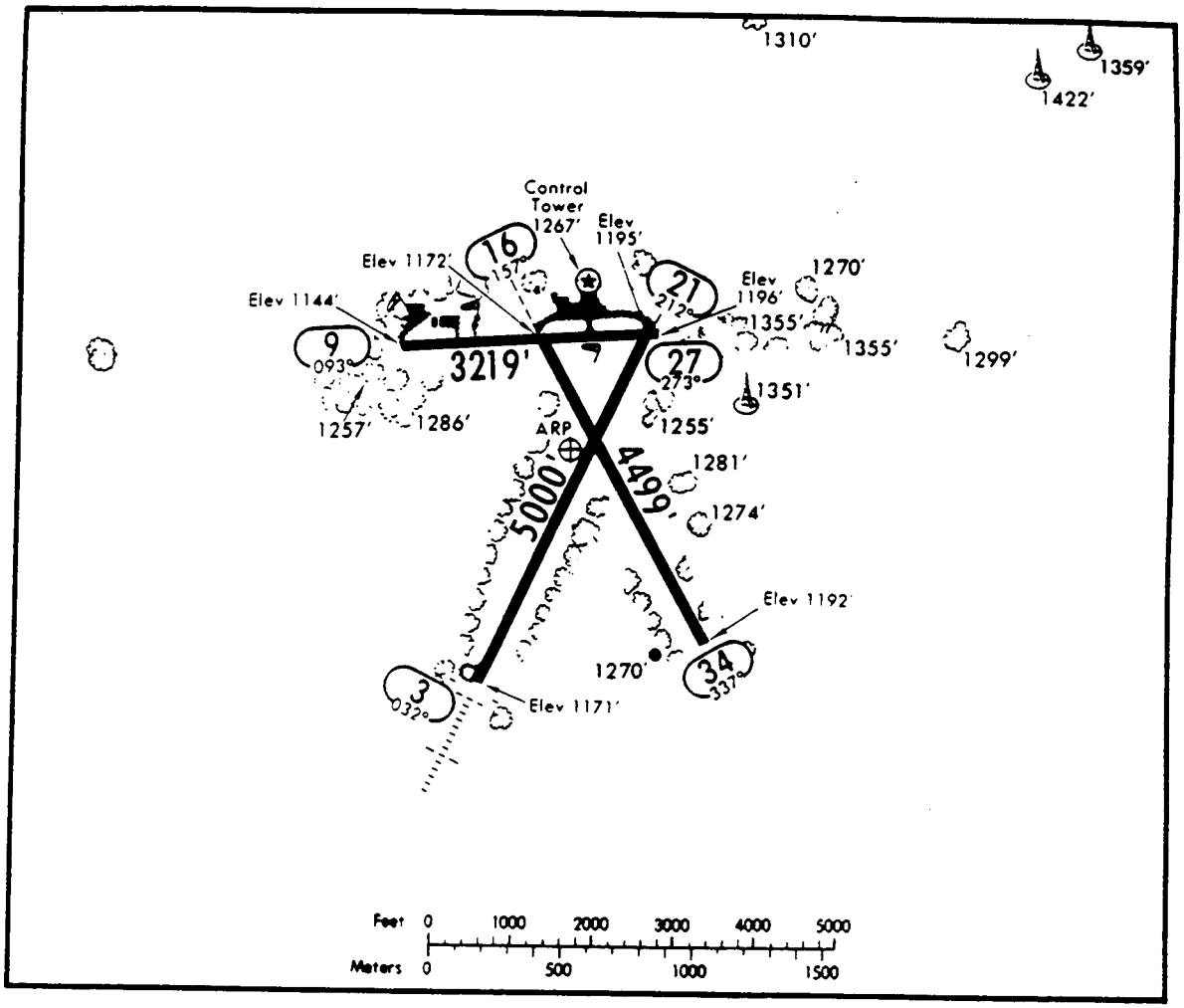
	EXISTING	NEW GENERATION
33	347AG	
UCA	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	–	
Other	–	
Total Displays		1

FY 85	CONVERT RVV	R/W 33

WHEELING WV (HLG) AEA



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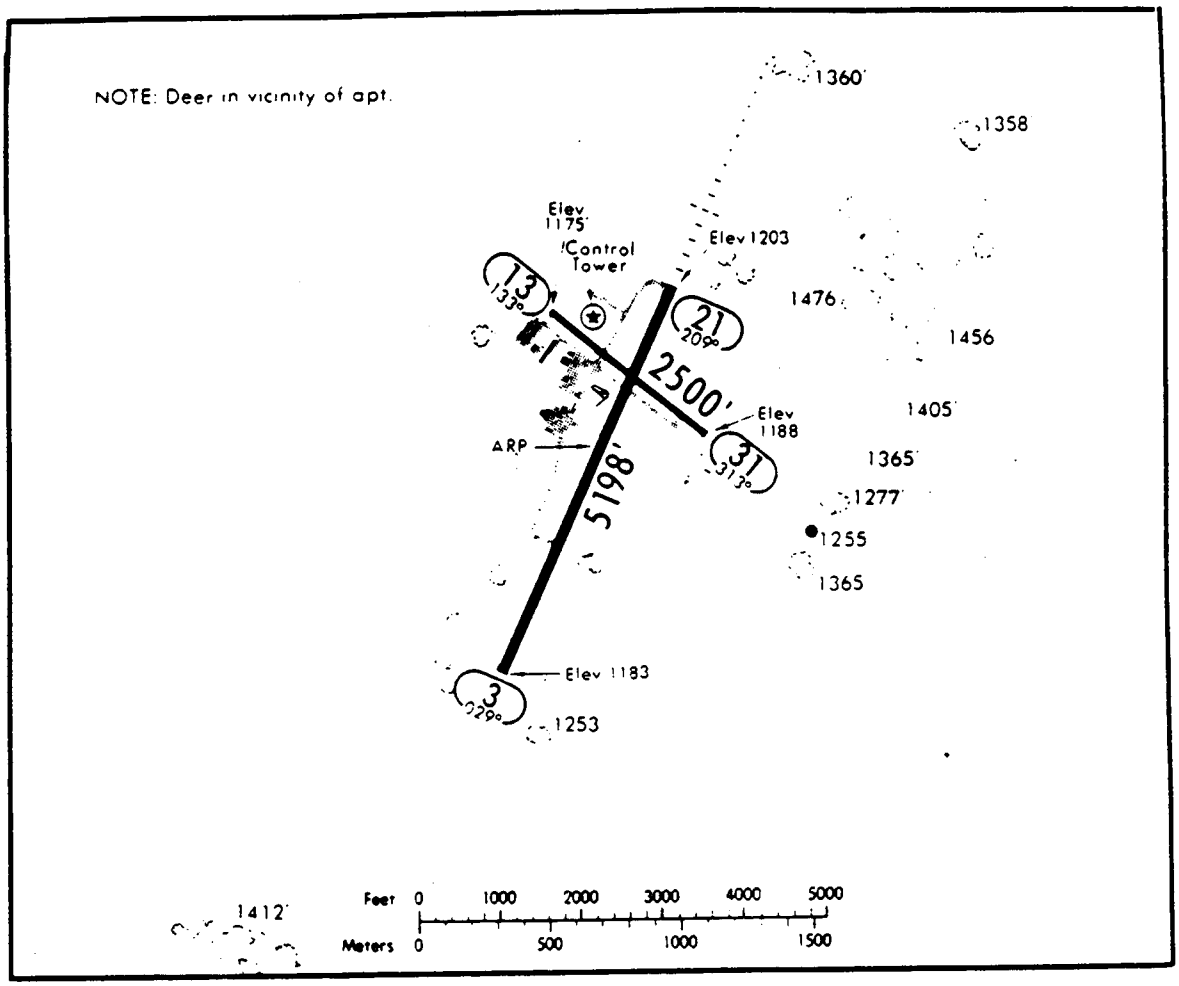
	EXISTING	NEW GENERATION
03	347AG	
HLG	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	–	
Other	–	
Total Displays		1

FY 85	CONVERT RVV	R/W 03

CLARKSBURG WV (CKB)

AEA



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EXISTING

NONE

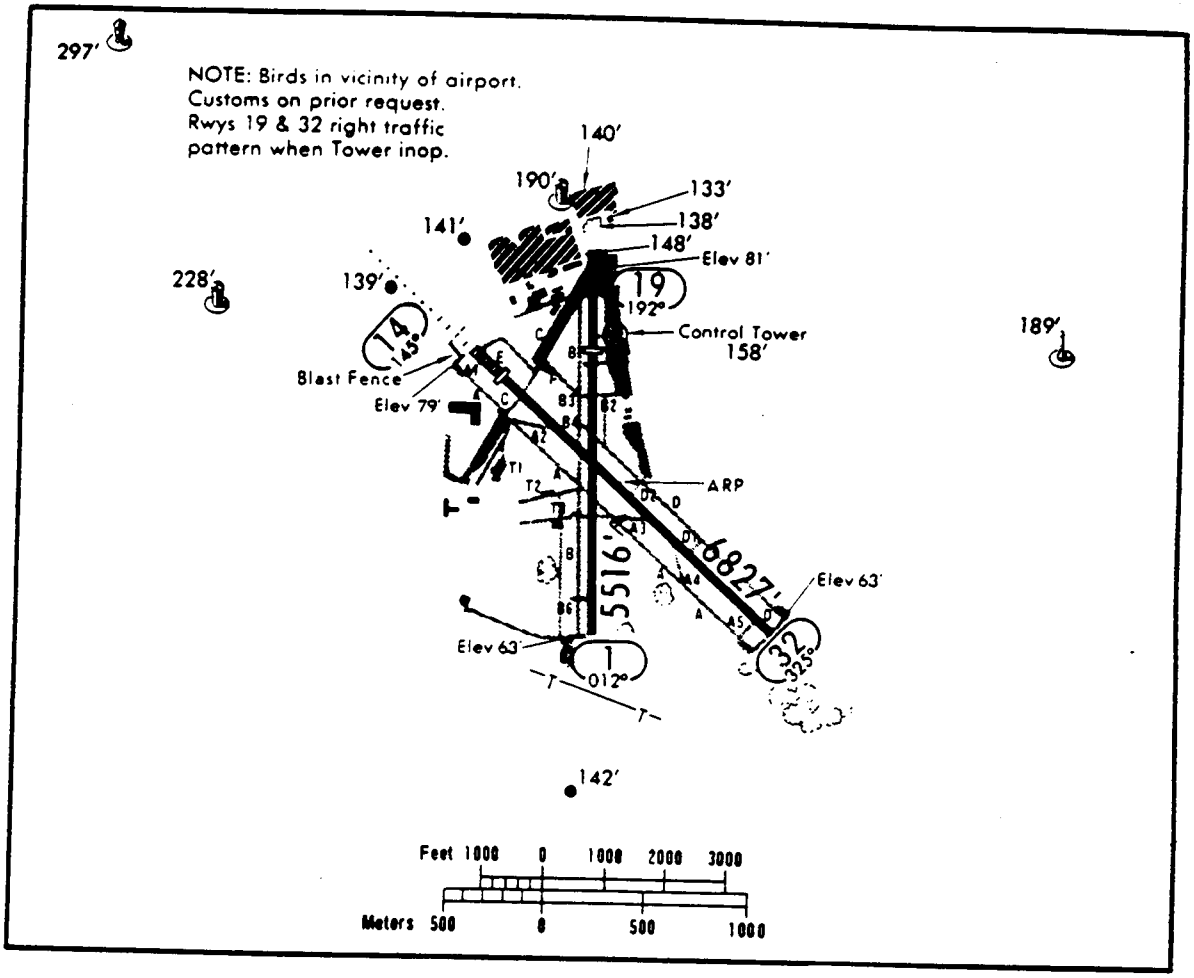
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 86	ESTABLISH	R/W 21

FARMINGDALE NY (FRG)

AEA



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EXISTING

NONE

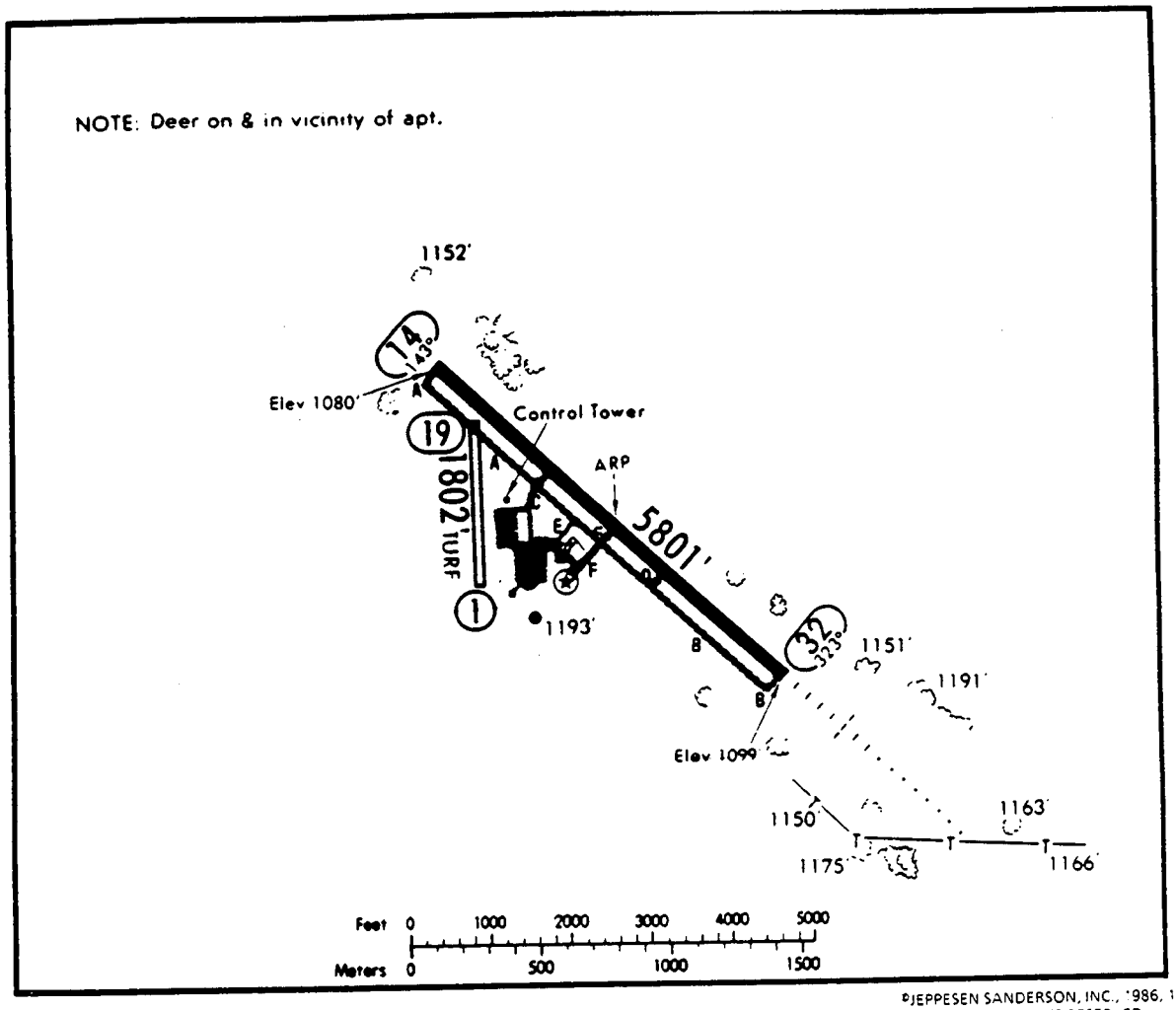
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 86	ESTABLISH	R/W 14

AEA

ITHACA NY (ITH)



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EXISTING

NONE

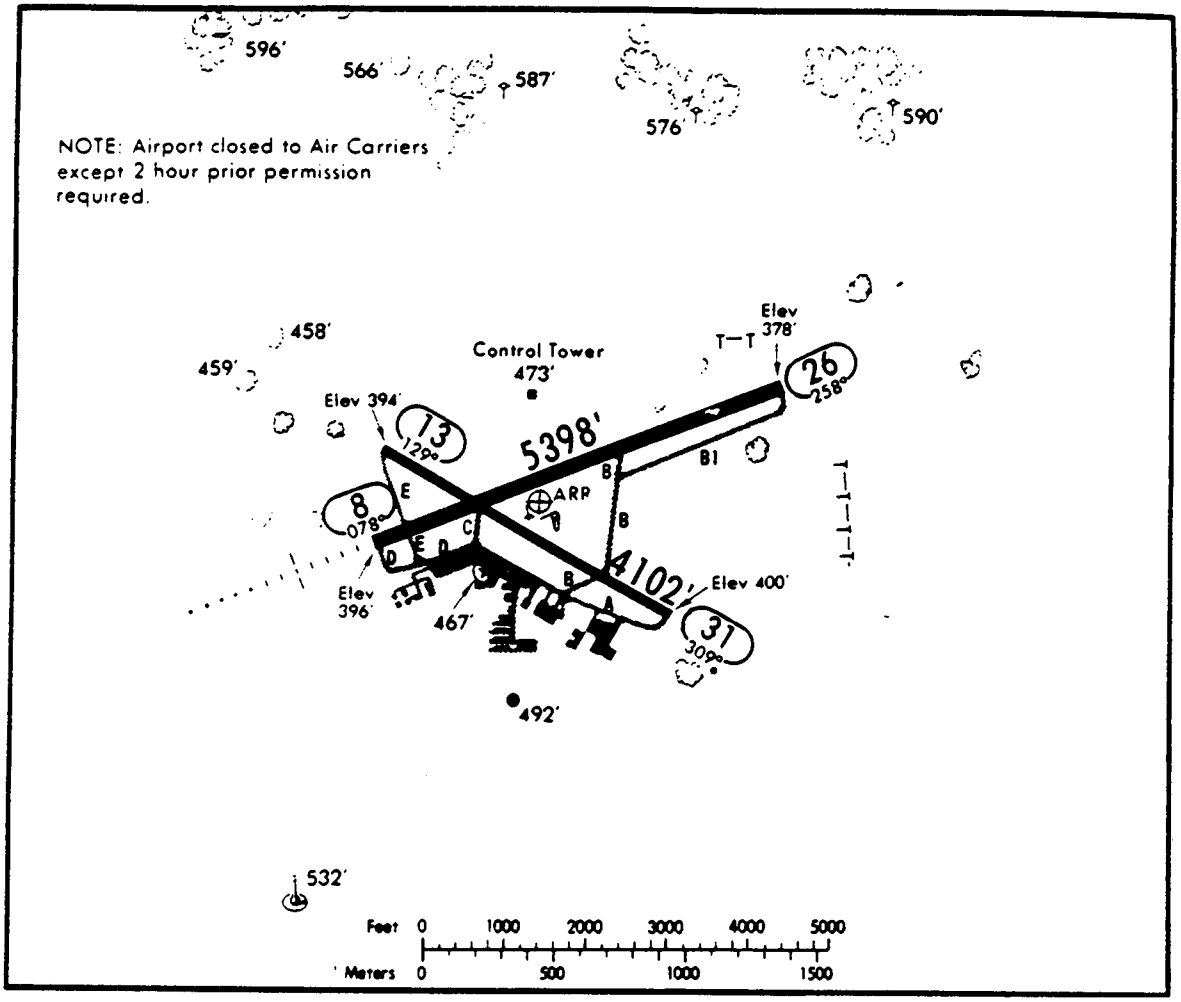
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 86	ESTABLISH	R/W 32

LANCASTER PA (LNS)

AEA



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EXISTING

NONE

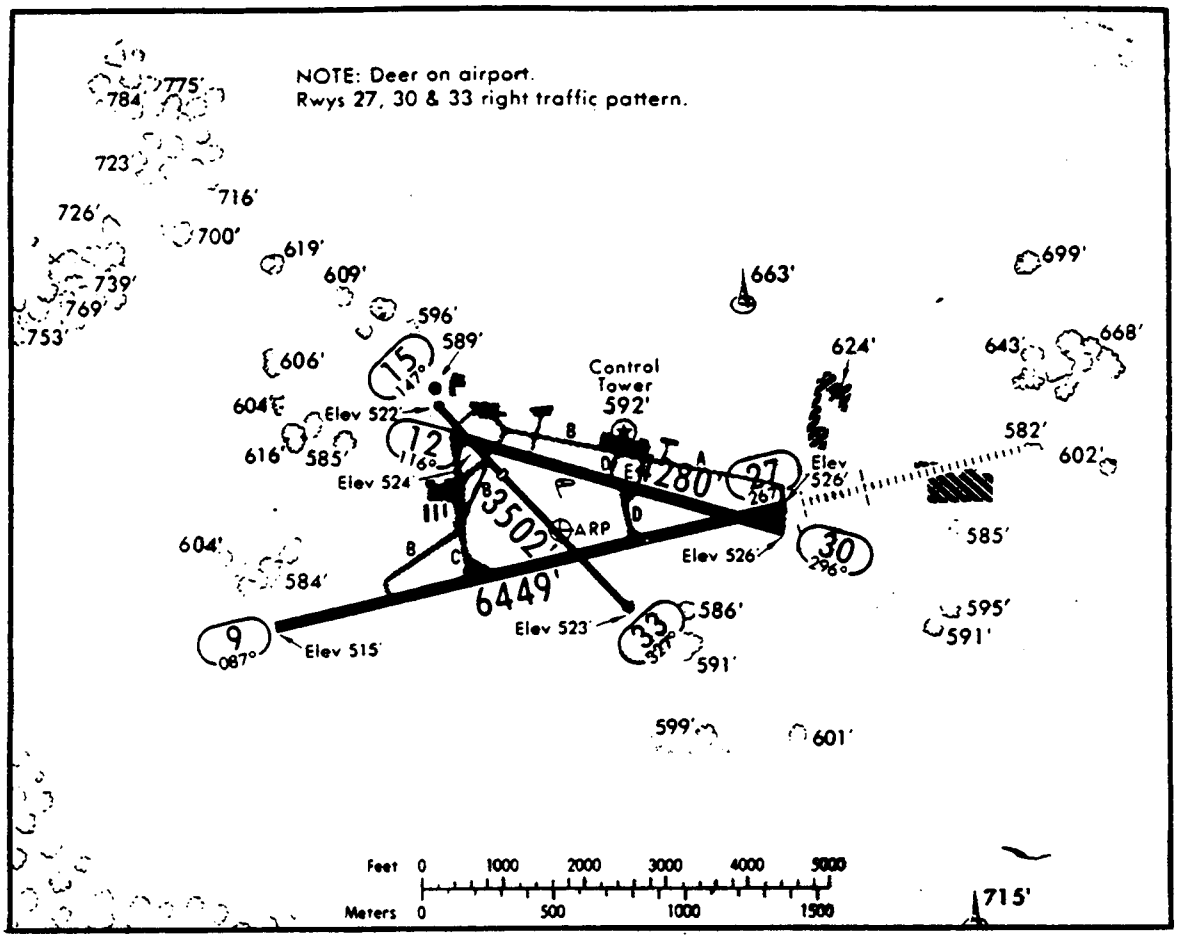
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 86	ESTABLISH	R/W 08

WILLIAMSPORT PA (IPT)

AEA



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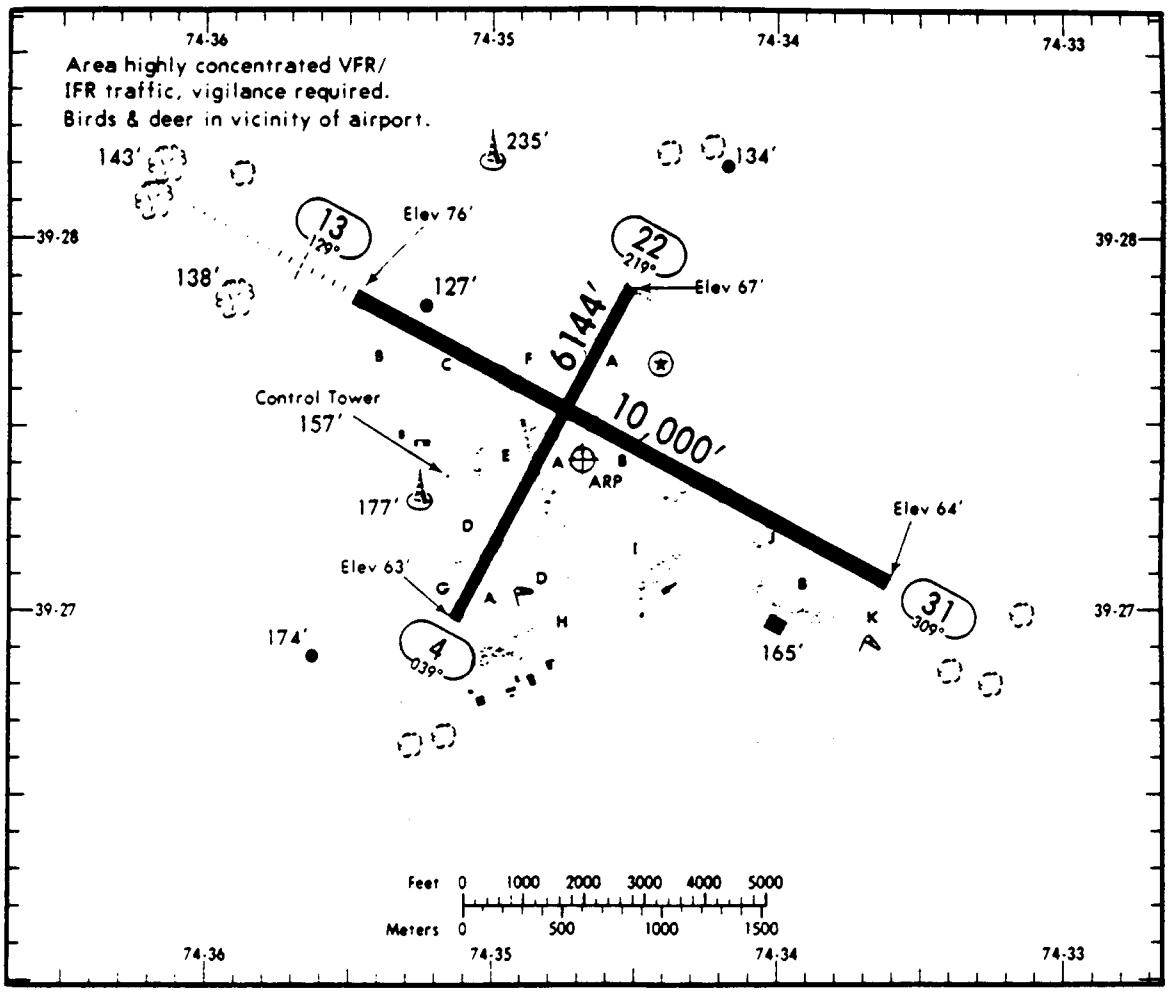
EXISTING	NEW GENERATION
NONE	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 86	ESTABLISH	R/W 27

ATLANTIC CITY NJ (ACY) AEA



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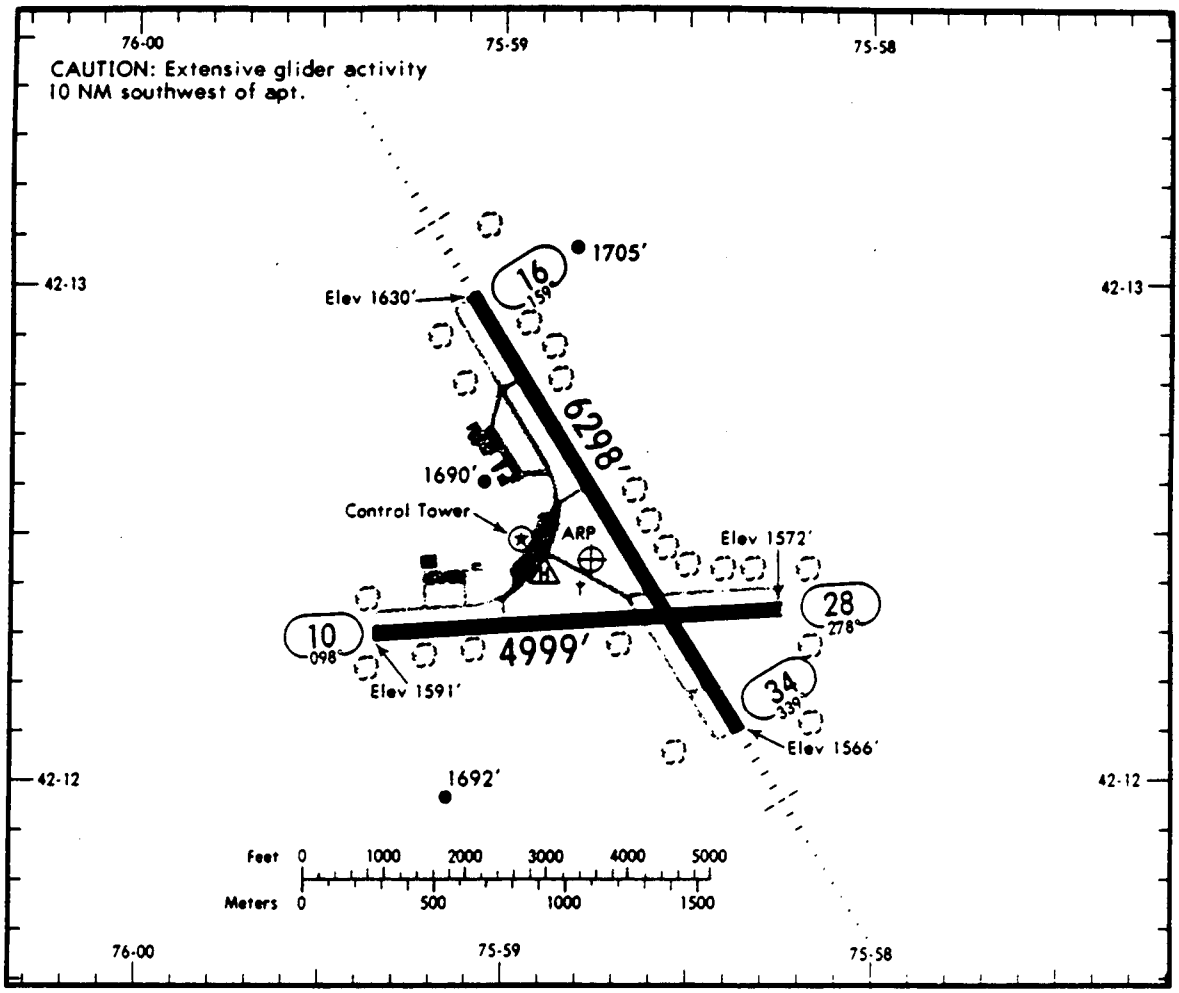
EXISTING		NEW GENERATION		
13	347AD	System Elements		QTY REQ'D
PVO	TD	Basic		1
PVOR	RO	Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		2

FY 86	REPLACE	R/W 13

BINGHAMTON NY (BLG) AEA



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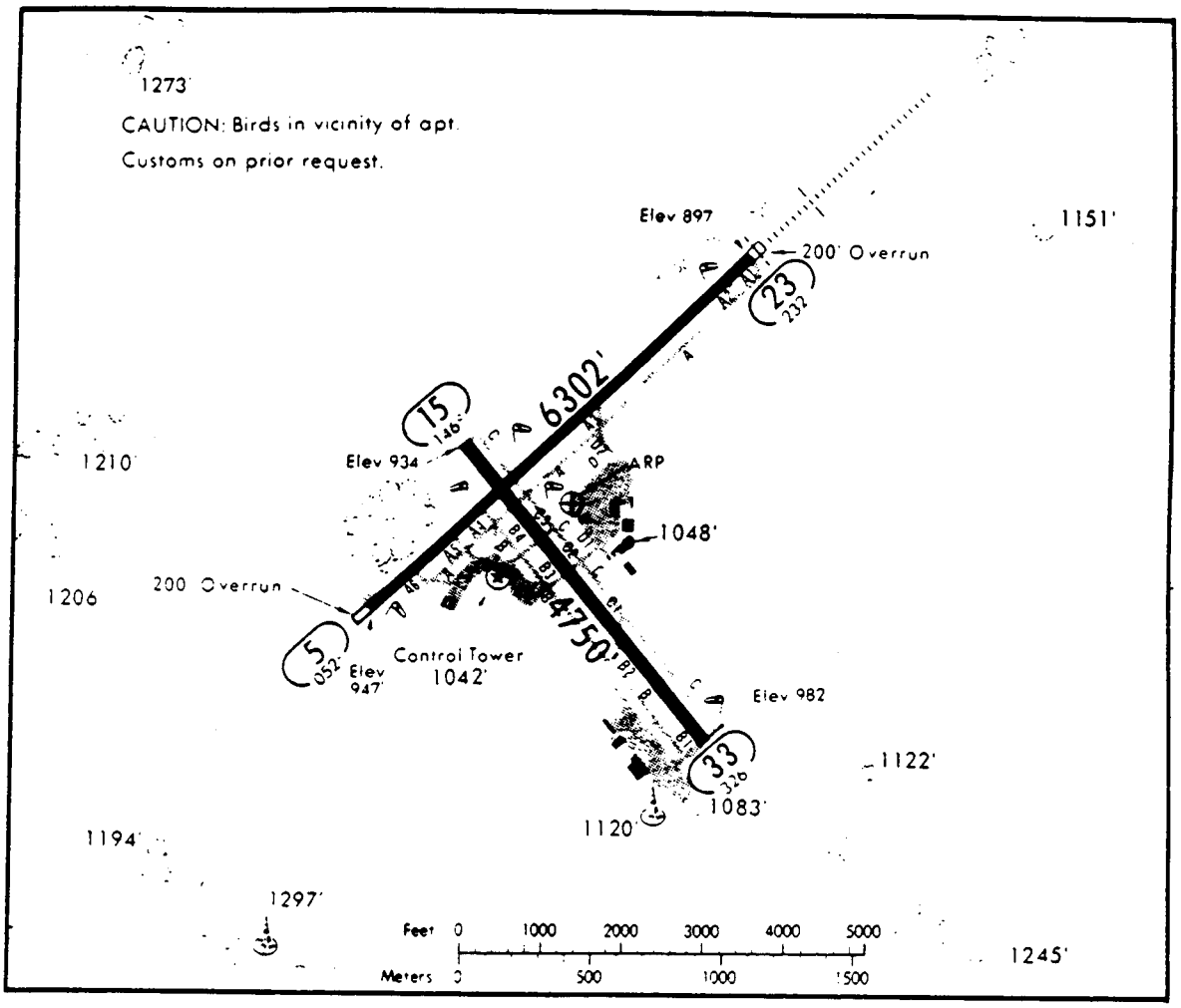
	EXISTING	NEW GENERATION		
34	347AD	System Elements		QTY REQ'D
BGM	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		2

FY 86	REPLACE	R/W 34

CHARLESTON WV (CRW)

AEA



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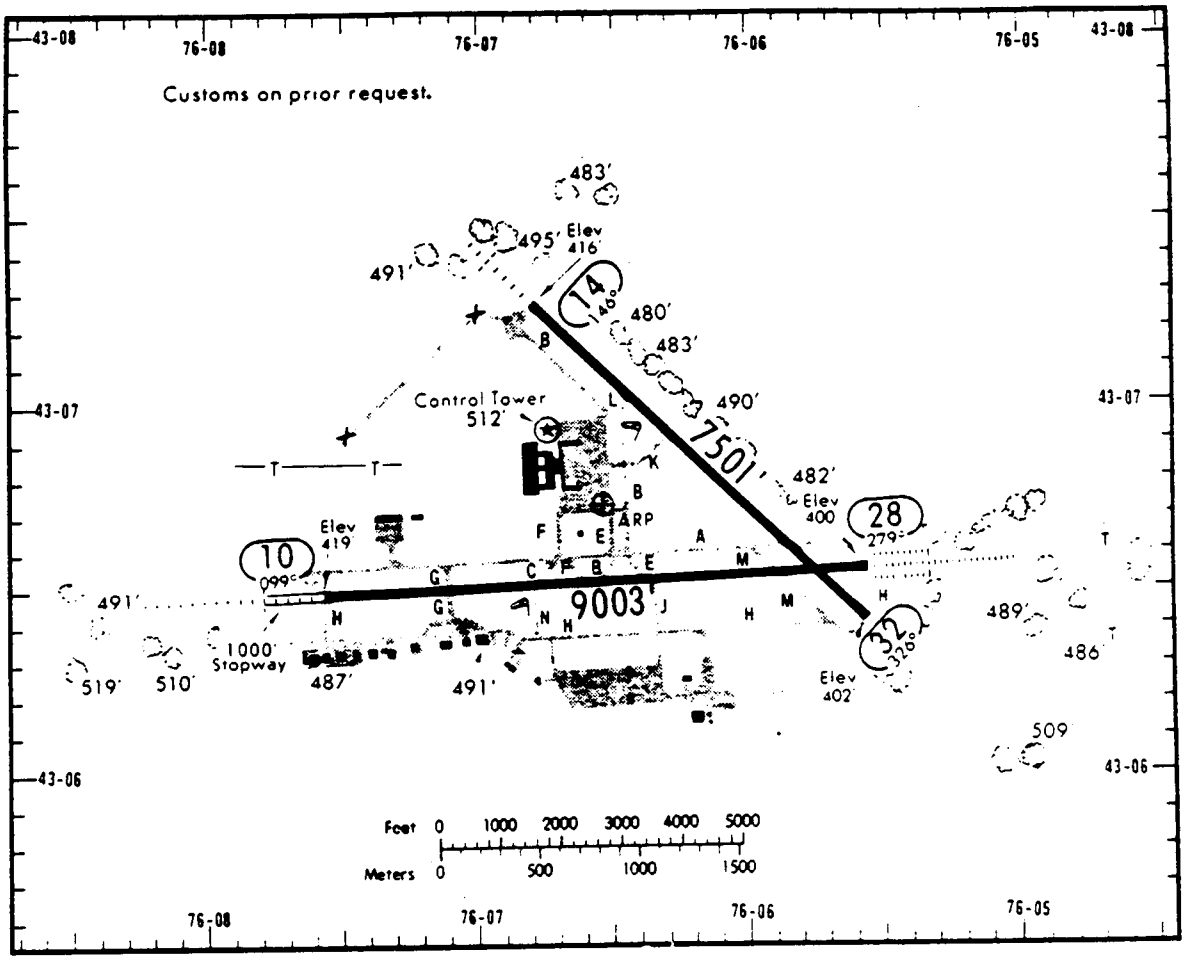
	EXISTING	NEW GENERATION
23	347AC	
CRW	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	–	
Total Displays		4

FY 86	REPLACE	R/W 23

SYCRACUSE NY (SYR)

AEA



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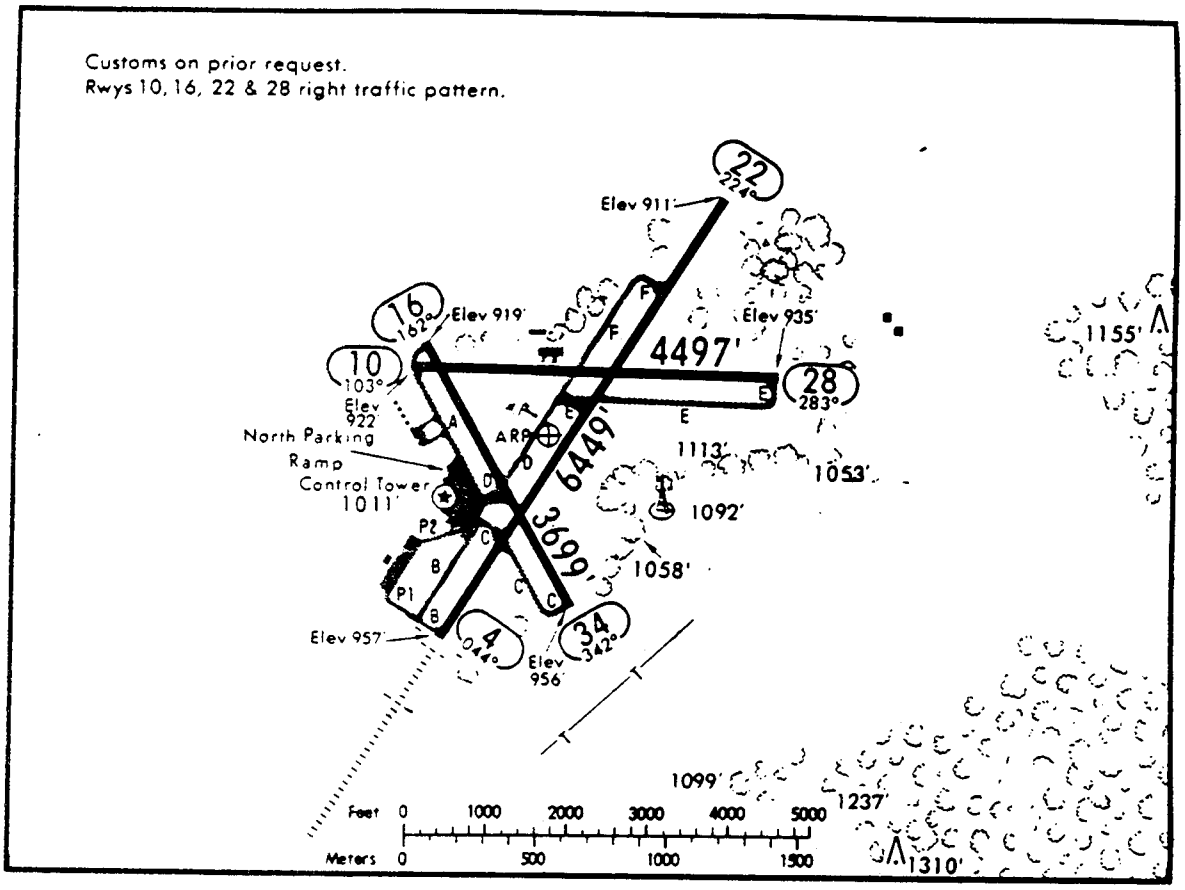
	EXISTING	NEW GENERATION		QTY REQ'D
28	347AD	System Elements		
SYRA	TD	Basic		1
SYRM	MP	Sensor Packages		2
SYRR	RO	RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	–	
		Other	–	
		Total Displays		3

FY 86	REPLACE	R/W 28

WILKES-BARRE PA (AVP)

AEA



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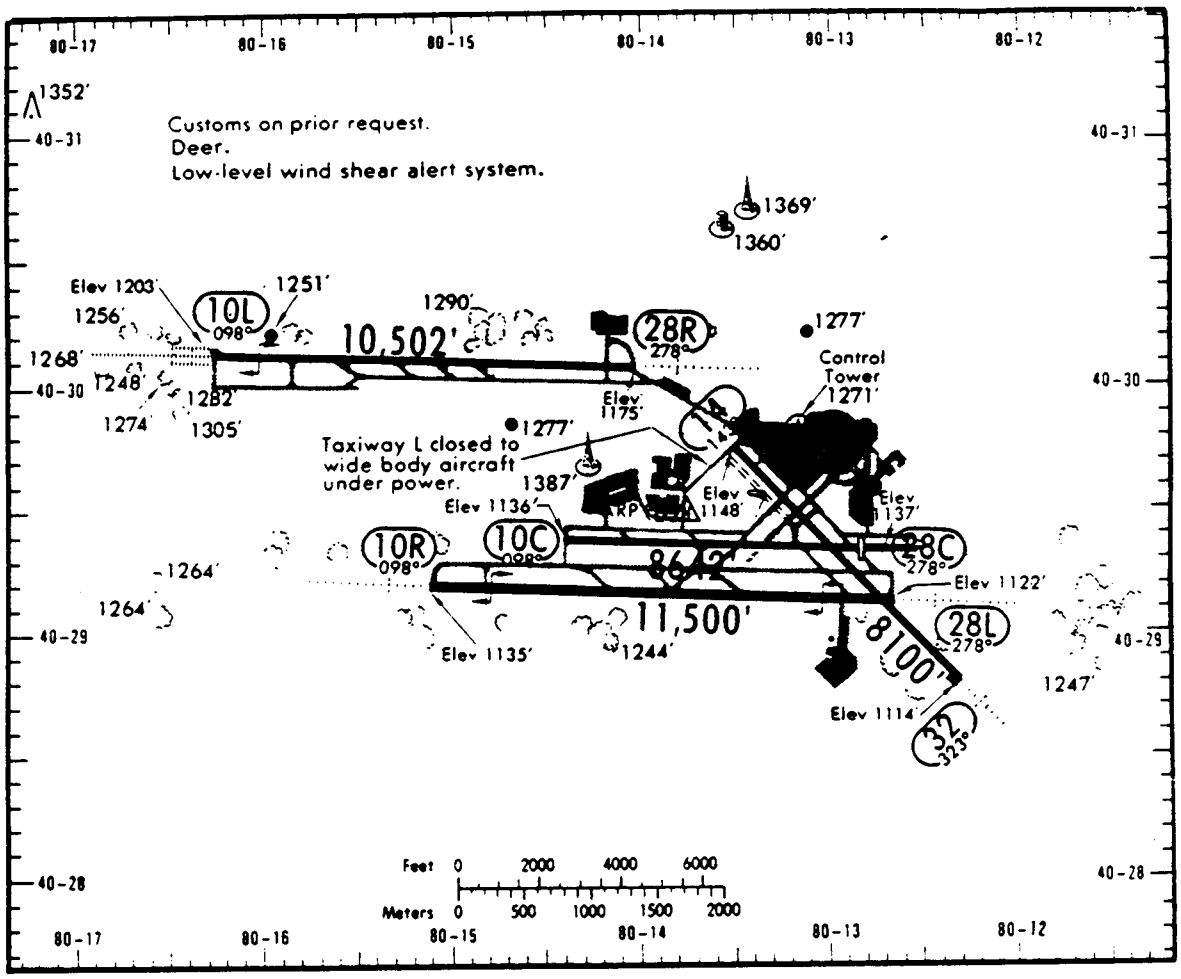
	EXISTING	NEW GENERATION		
04	347AE	System Elements		QTY REQ'D
AVP	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	1	
		NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE RVR	R/W 04

PITTSBURGH PA (PIT)

AEA



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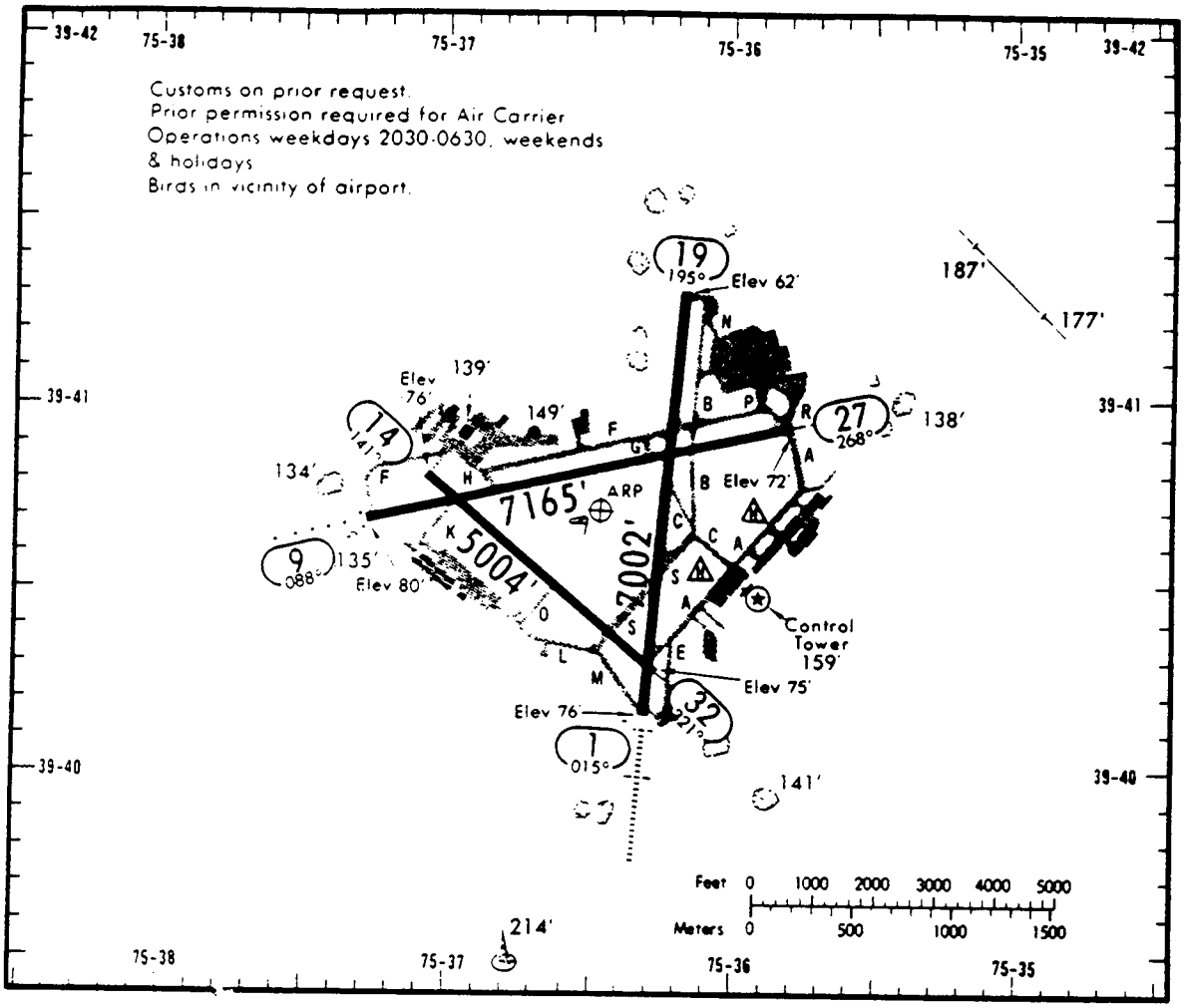
	EXISTING	NEW GENERATION		
10L	347AE	System Elements		QTY REQ'D
LXBA	TD	Basic		1
LXBM	MP	Sensor Packages		4
LXBB	RO	RLIM		2
		Displays		
28L	347AE	ATCT	4	
		TRACON	4	
PFS	TD	NWS	1	
		Other	–	
		Total Displays		9

FY 93	REPLACE	R/W 10L, 28L/10R, 28C

WILMINGTON DE (ILG)

AEA



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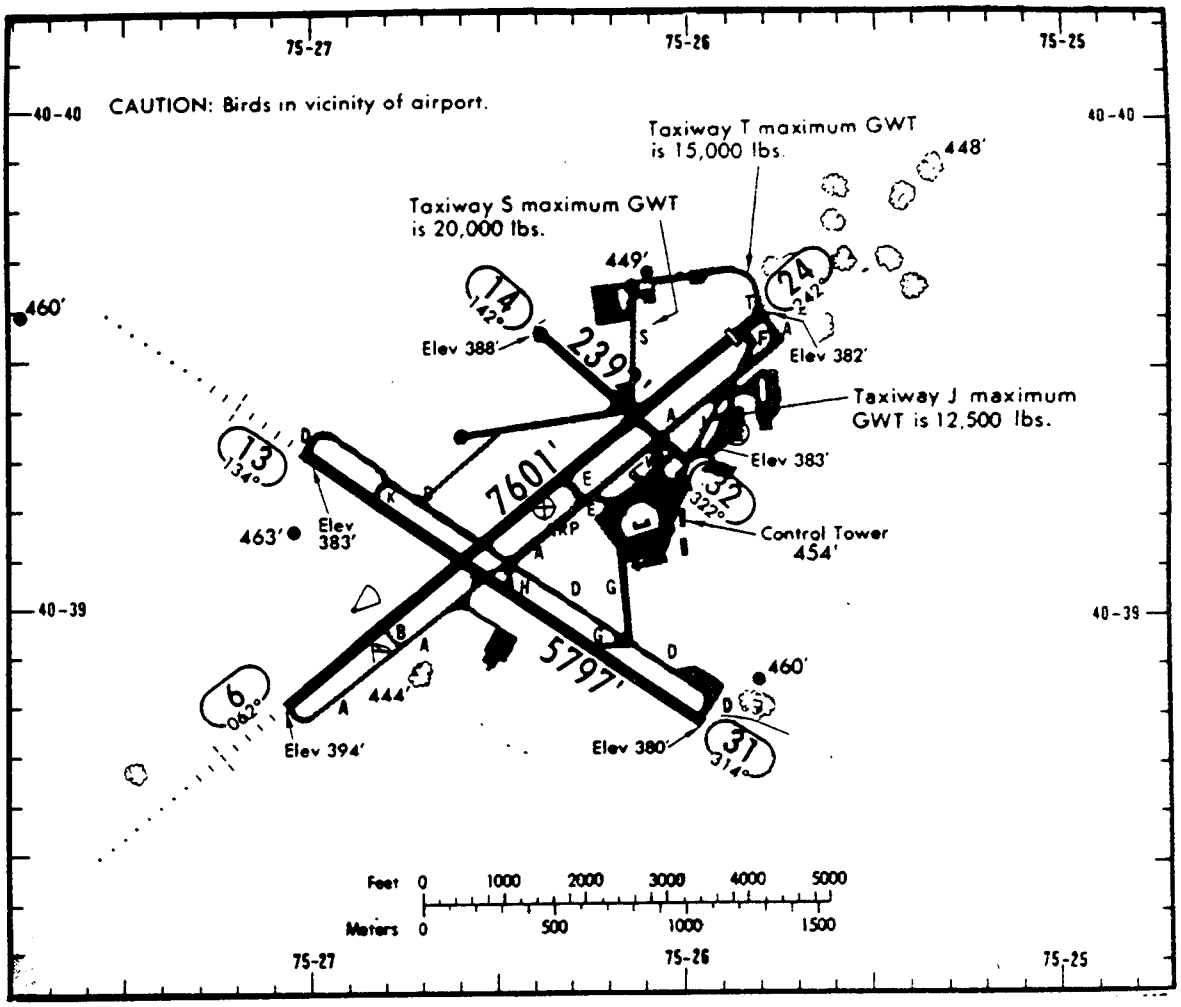
	EXISTING	NEW GENERATION		
01	347AD	System Elements		QTY REQ'D
ILG	TD	Basic		1
		Sensor Packages		
		RLIM		
		Displays		
		ATCT	4	
		TRACON	4	
		NWS	1	
		Other	–	
		Total Displays		9

FY 93	REPLACE	R/W 10L, 28L/10R, 28C

ALLENTOWN PA (ABE)

AEA



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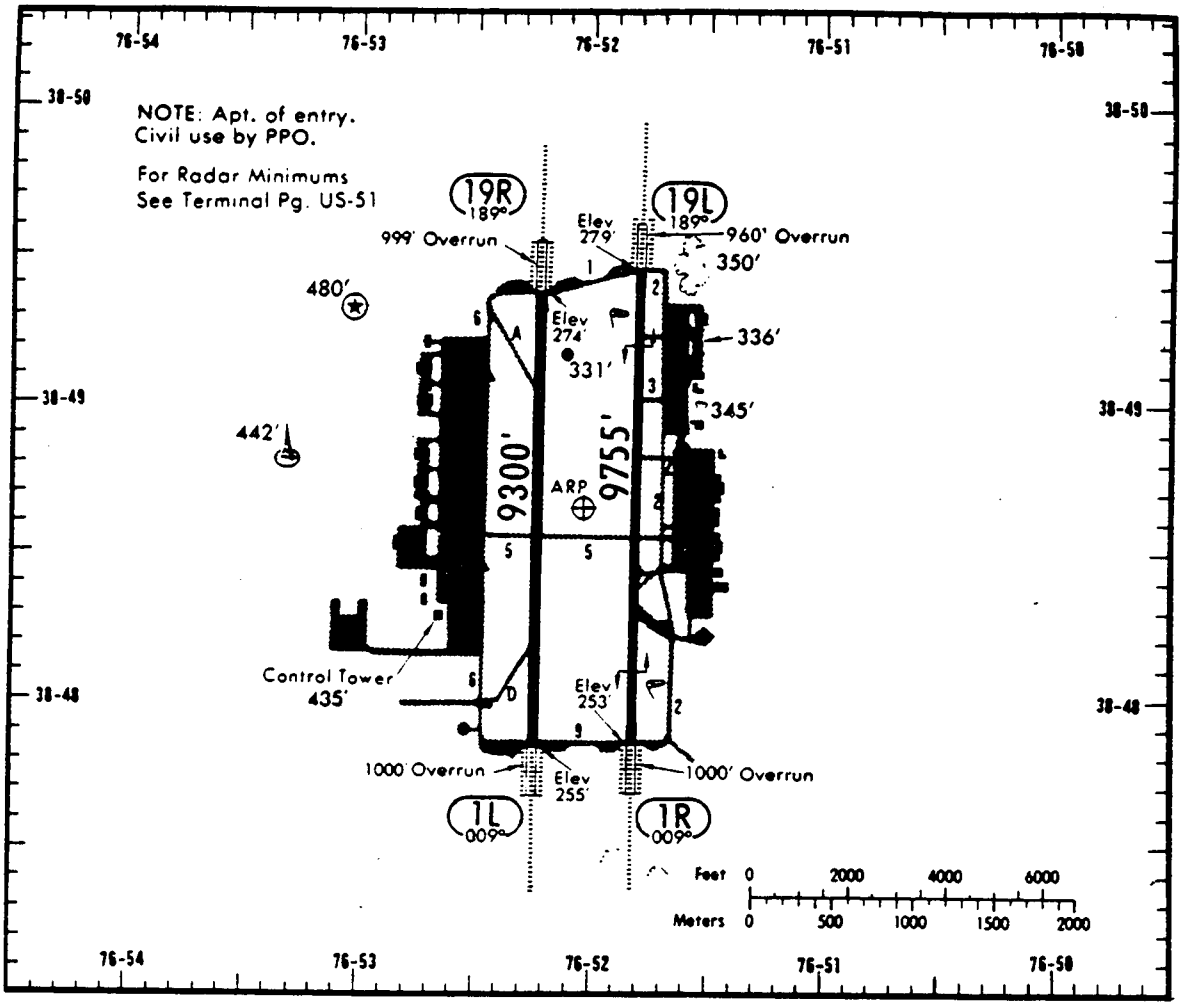
	EXISTING	NEW GENERATION		
06	347AE	System Elements		QTY REQ'D
ABE	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	–	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 06

ANDREWS MD (ADW)

AEA



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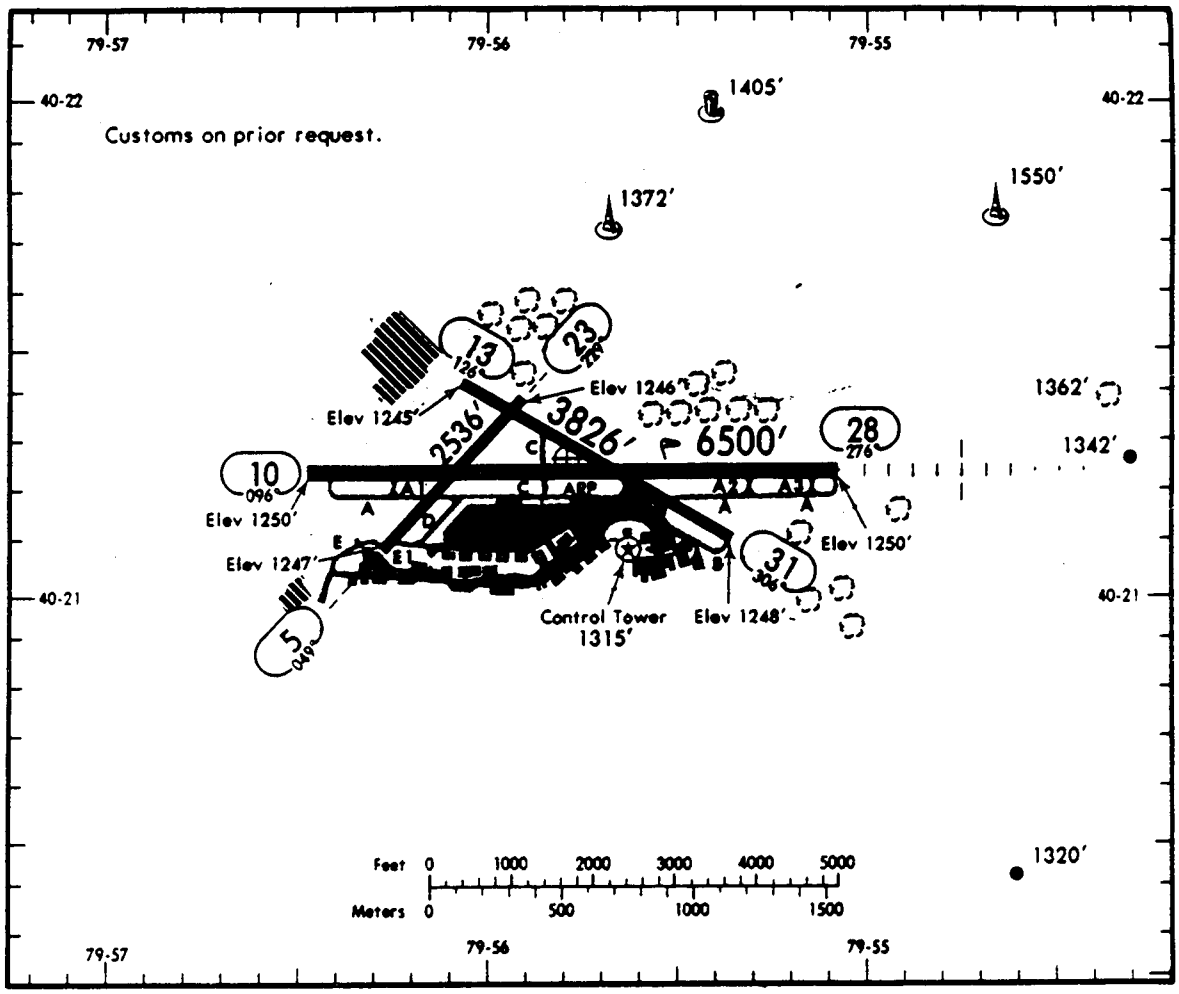
	EXISTING	NEW GENERATION		
01L	347AE	System Elements		QTY REQ'D
ADW	TD	Basic		1
ADWB	RO	Sensor Packages		2
		RLIM		–
19R	347AE	Displays		
		ATCT	1	
ADWA	MP	TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 01L/19R

ALLEGHENY PA (AGC) AEA



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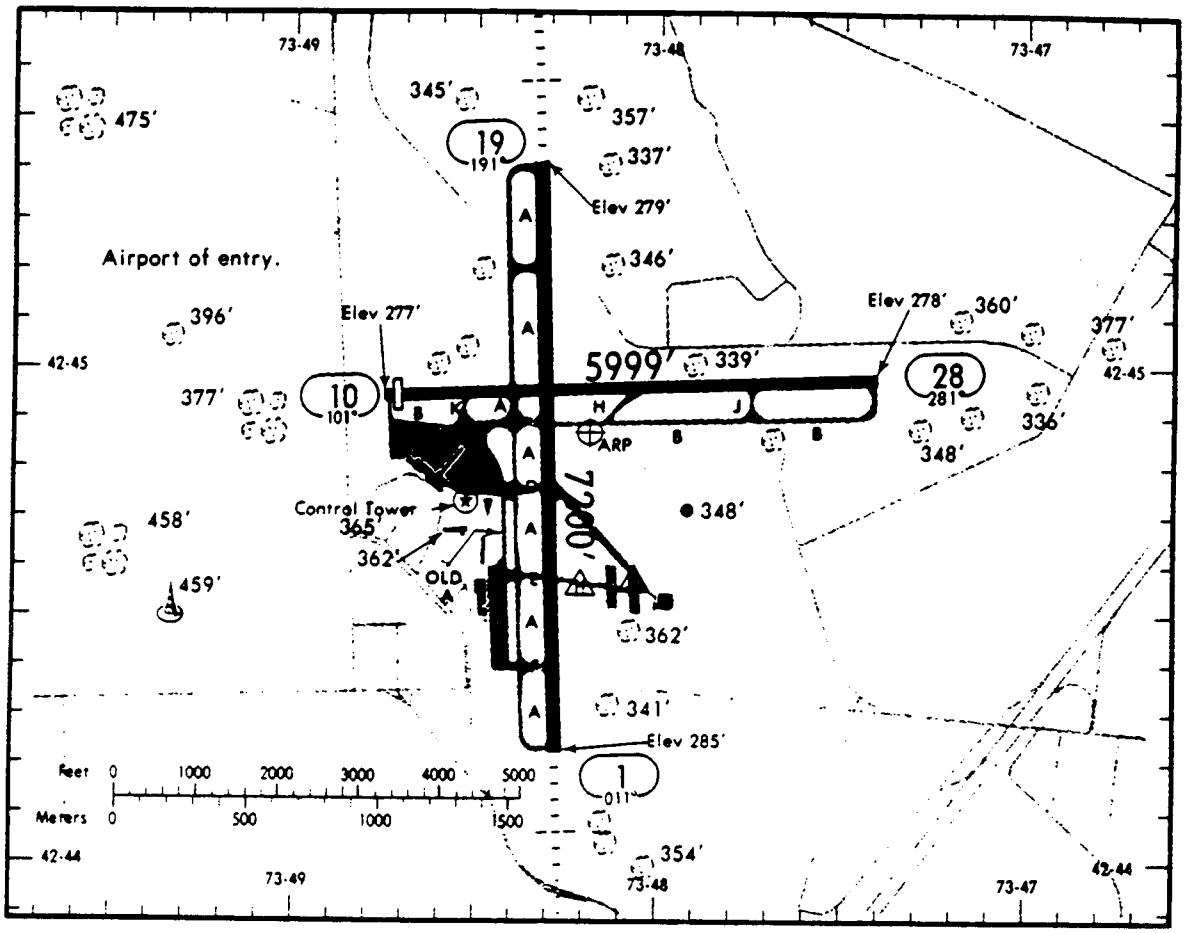
	EXISTING	NEW GENERATION		
28	347AE	System Elements		QTY REQ'D
AGC	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	1	
		Total Displays		1

FY 93	REPLACE	R/W 28

ALBANY NY (ALB)

AEA



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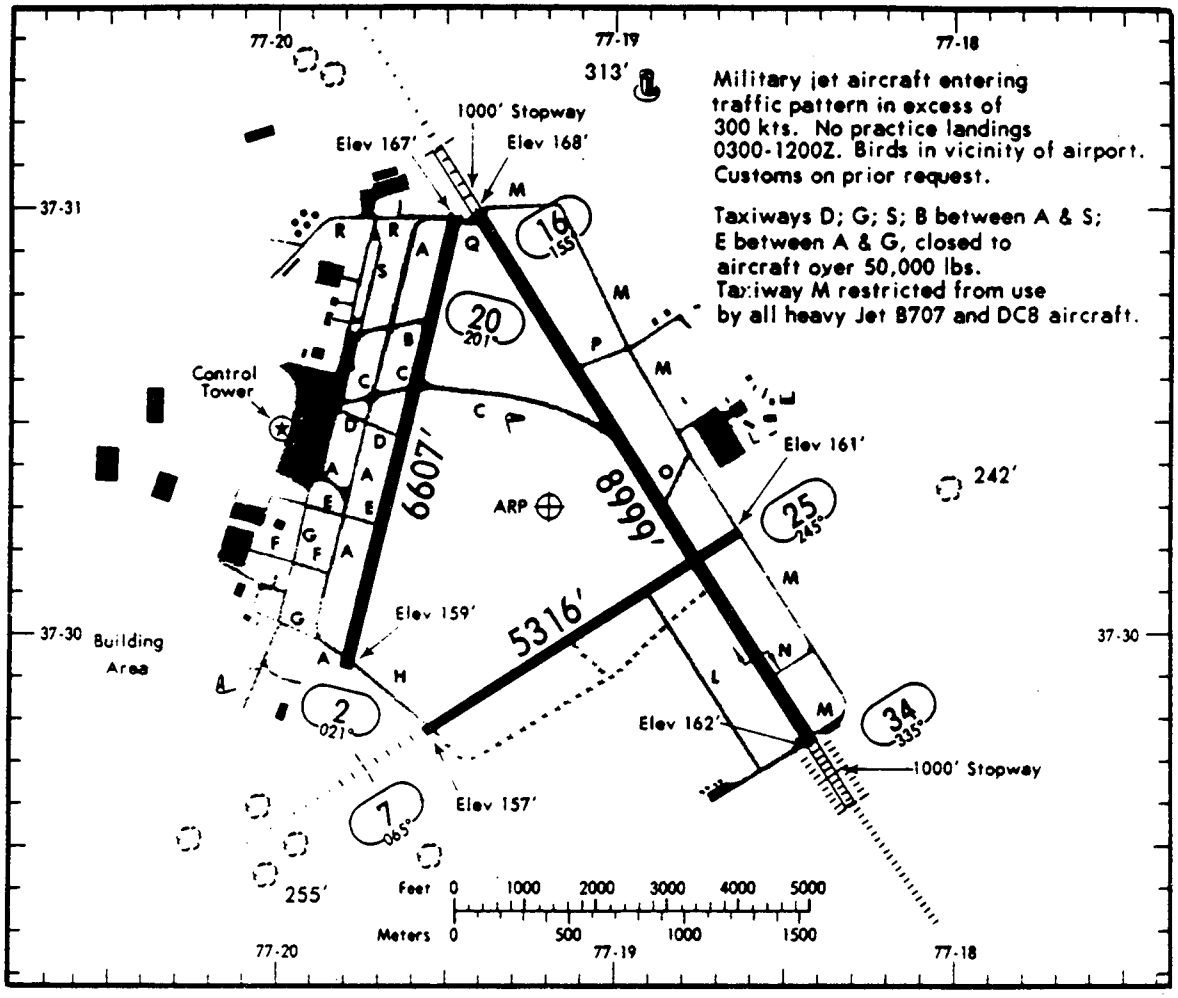
EXISTING		NEW GENERATION		
19	347AE	System Elements		QTY REQ'D
ALB	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 19

RICHMOND VA (RIC) AEA



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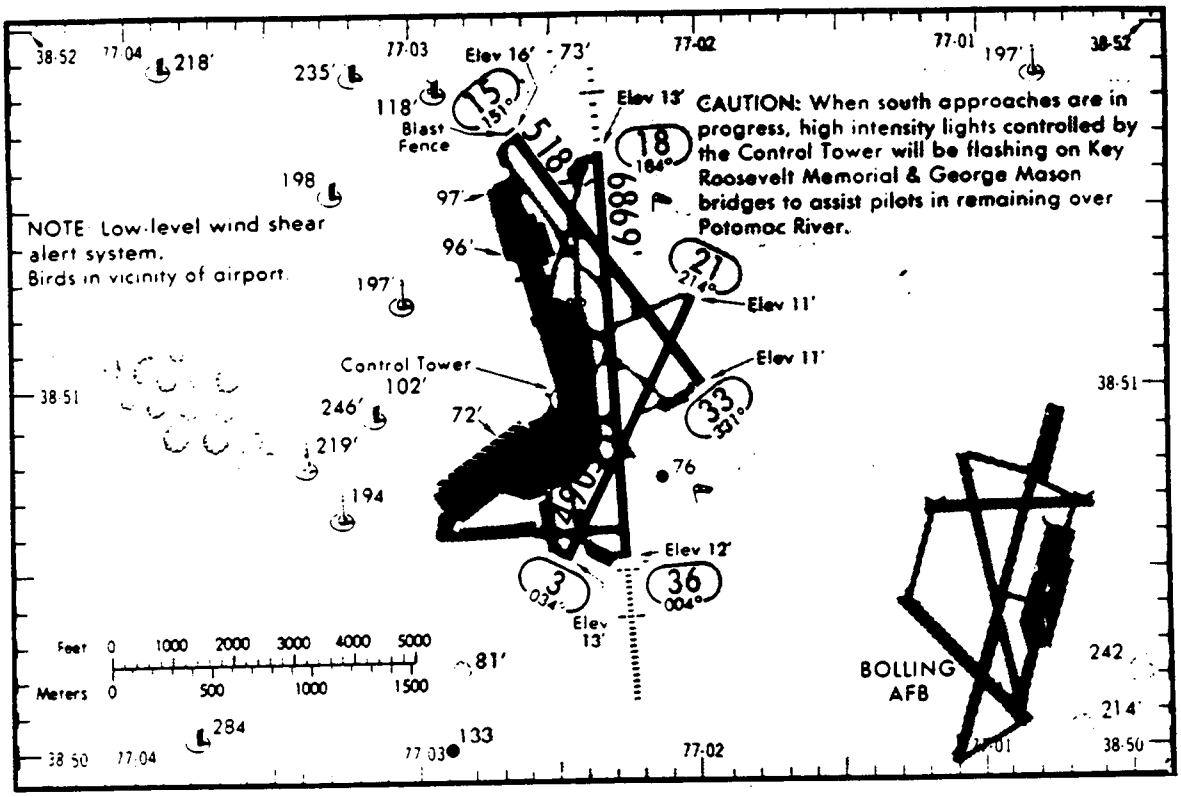
EXISTING		NEW GENERATION		
34	347AE	System Elements		QTY REQ'D
BNEA	TD	Basic		1
BNEM	MP	Sensor Packages		2
BNER	RO	RLIM		–
		Displays		
07	347AE	ATCT	1	
		TRACON	3	
RIC	TD	NWS	–	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 34, 07

WASHINGTON DC (DCA)

AEA



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EXISTING	
36	34716
DCAT	TD
36	347AE
DCAR	RO

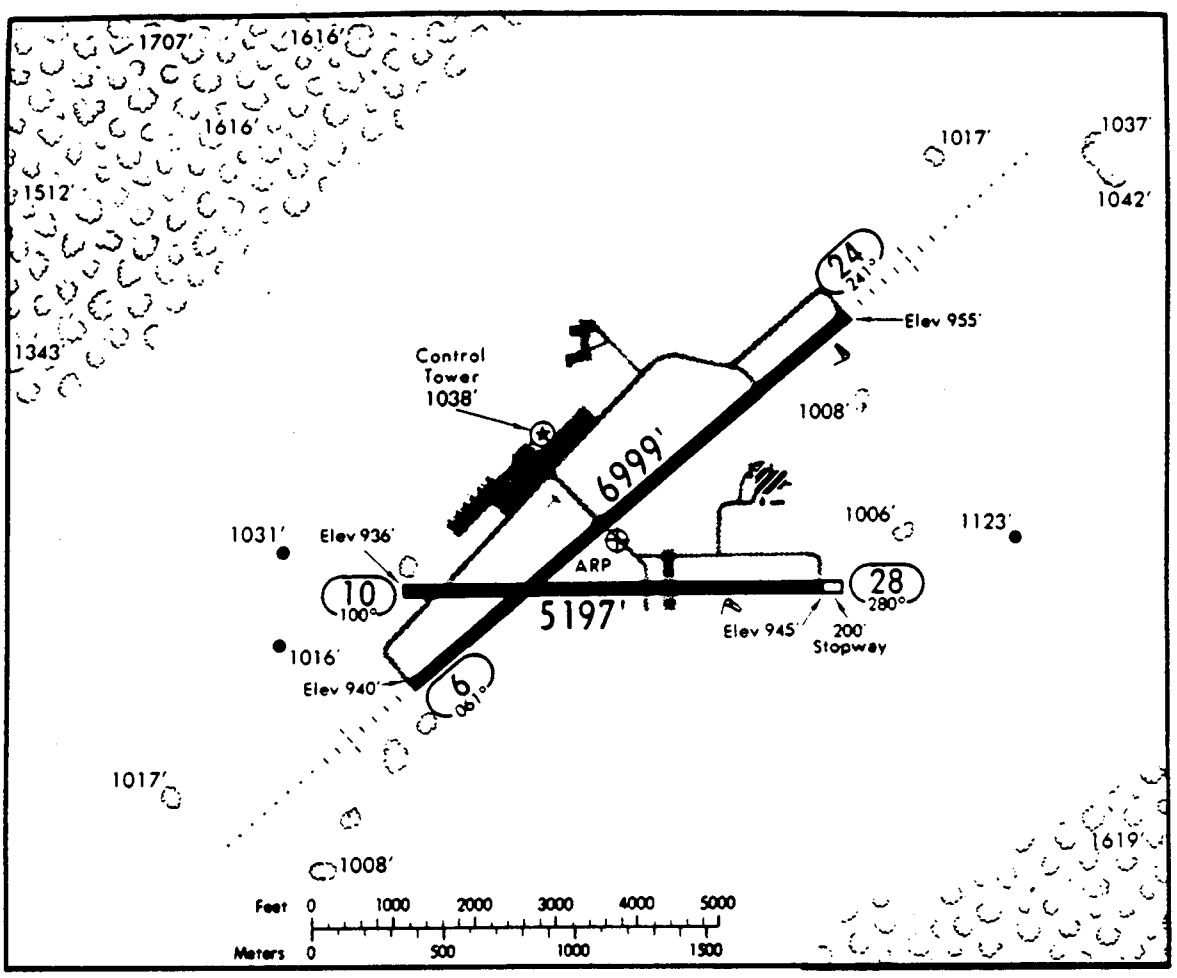
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	3	
NWS	2	
Other	–	
Total Displays		7

FY 93	REPLACE	R/W 36

ELMIRA NY (ELM)

AEA



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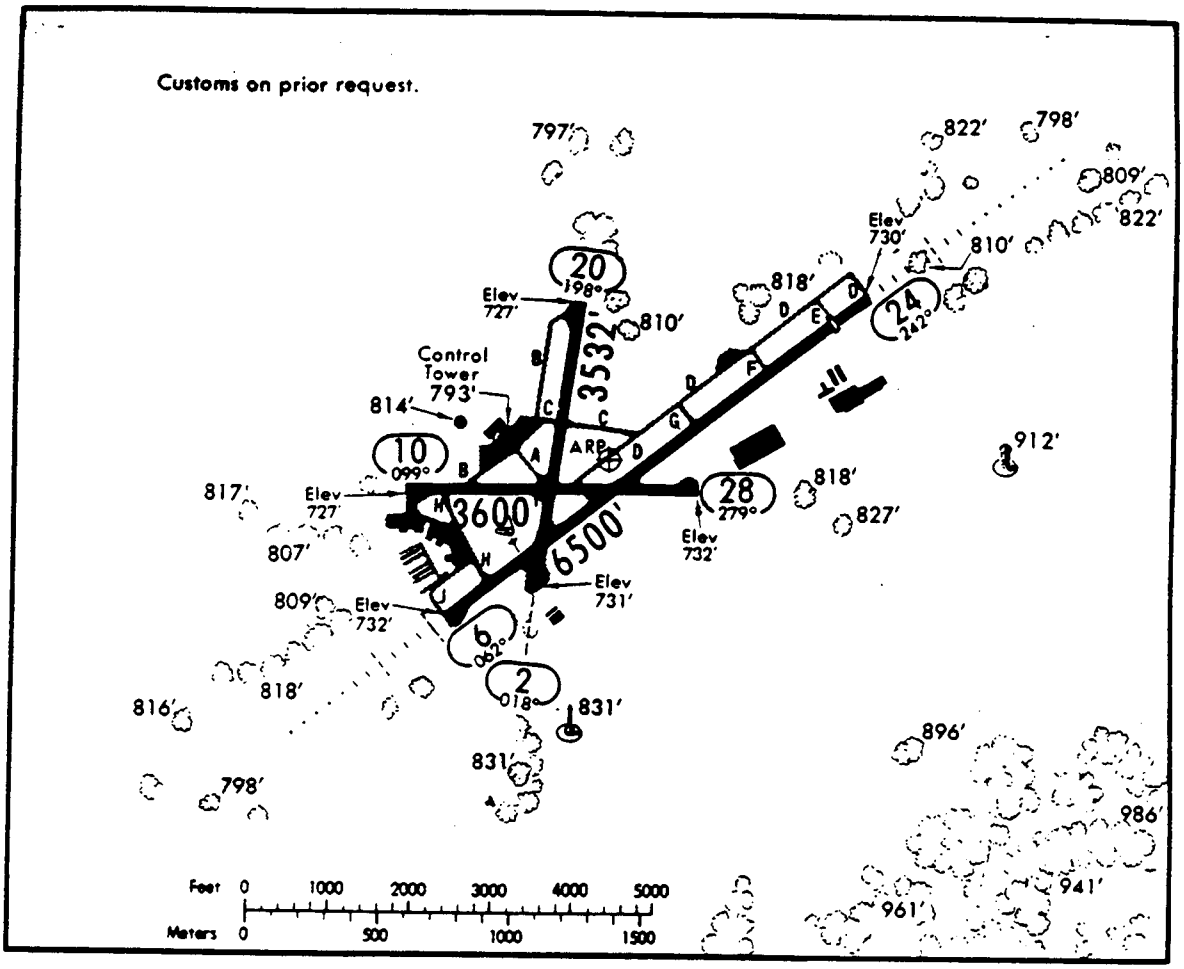
	EXISTING	NEW GENERATION		
24	347AE	System Elements		QTY REQ'D
ELM	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		1

FY 93	REPLACE	R/W 24

ERIE PA (ERI)

AFA



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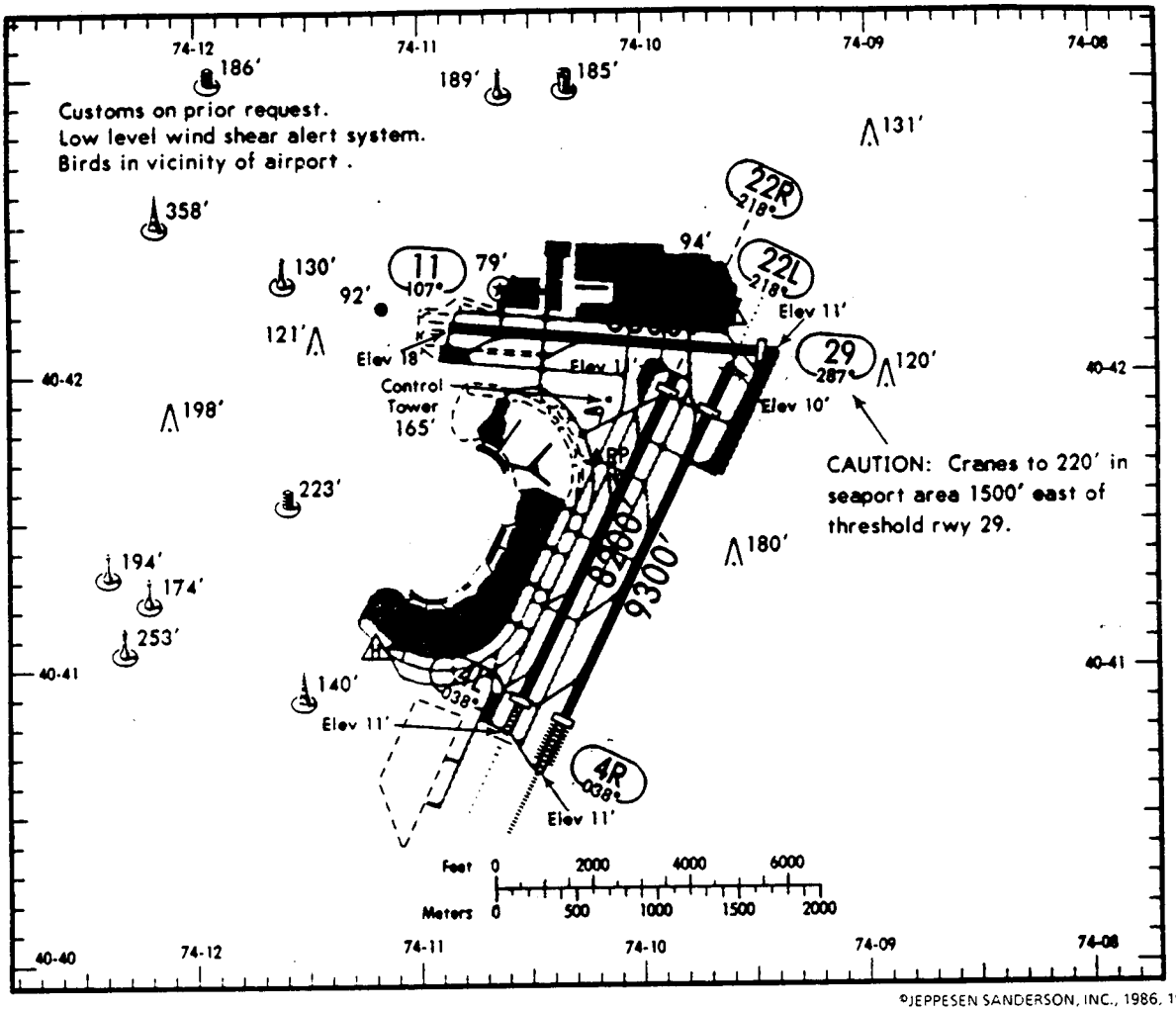
	EXISTING	NEW GENERATION
06	34716	
ERI	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	3	
TRACON	–	
NWS	–	
Other	–	
Total Displays		3

FY 93	REPLACE	R/W 06

NEWARK NJ (EWR)

AEA



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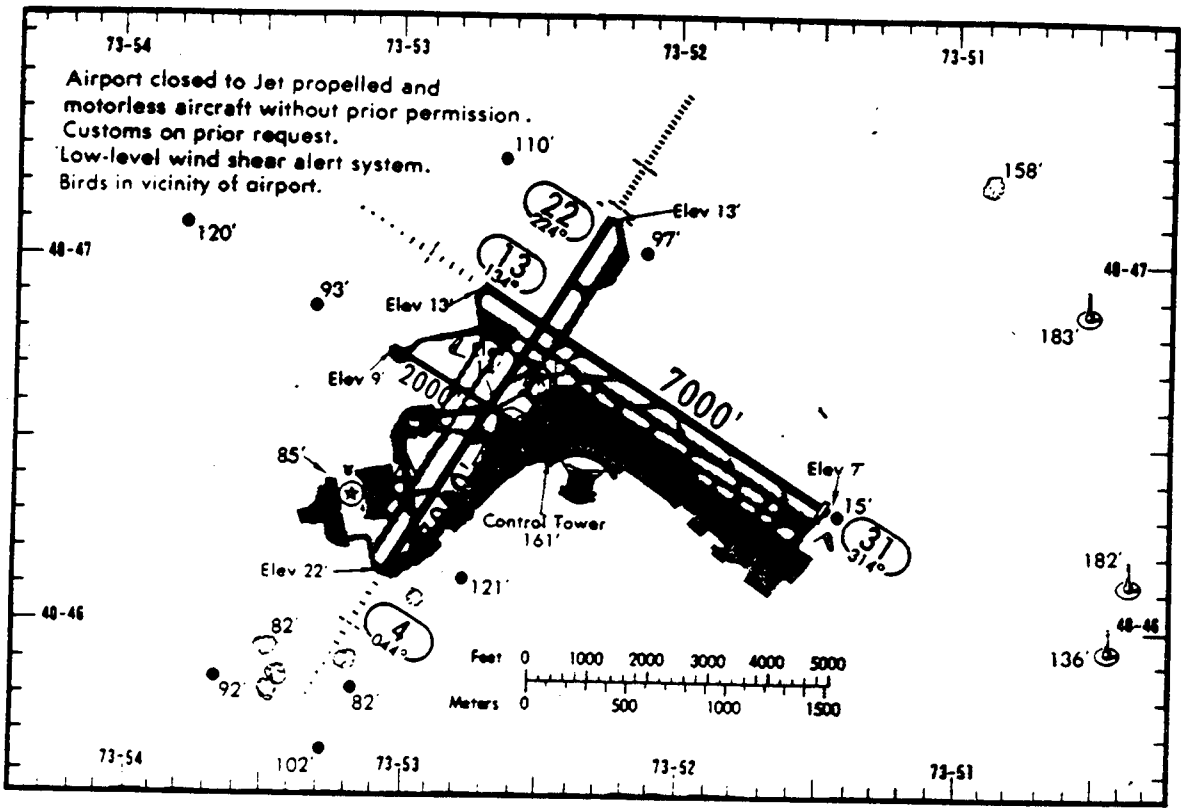
EXISTING		NEW GENERATION		
04R	347AE	System Elements		QTY REQ'D
EZA	TD	Basic		1
EZAM	MP	Sensor Packages		2
EXAR	RO	RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 04R

NEW YORK NY (LA GUARDIA - LGA)

AEA



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EXISTING

13	347AE
GDIR	RO
04	347AE
LGA	TD
22	347AE
URD	TD

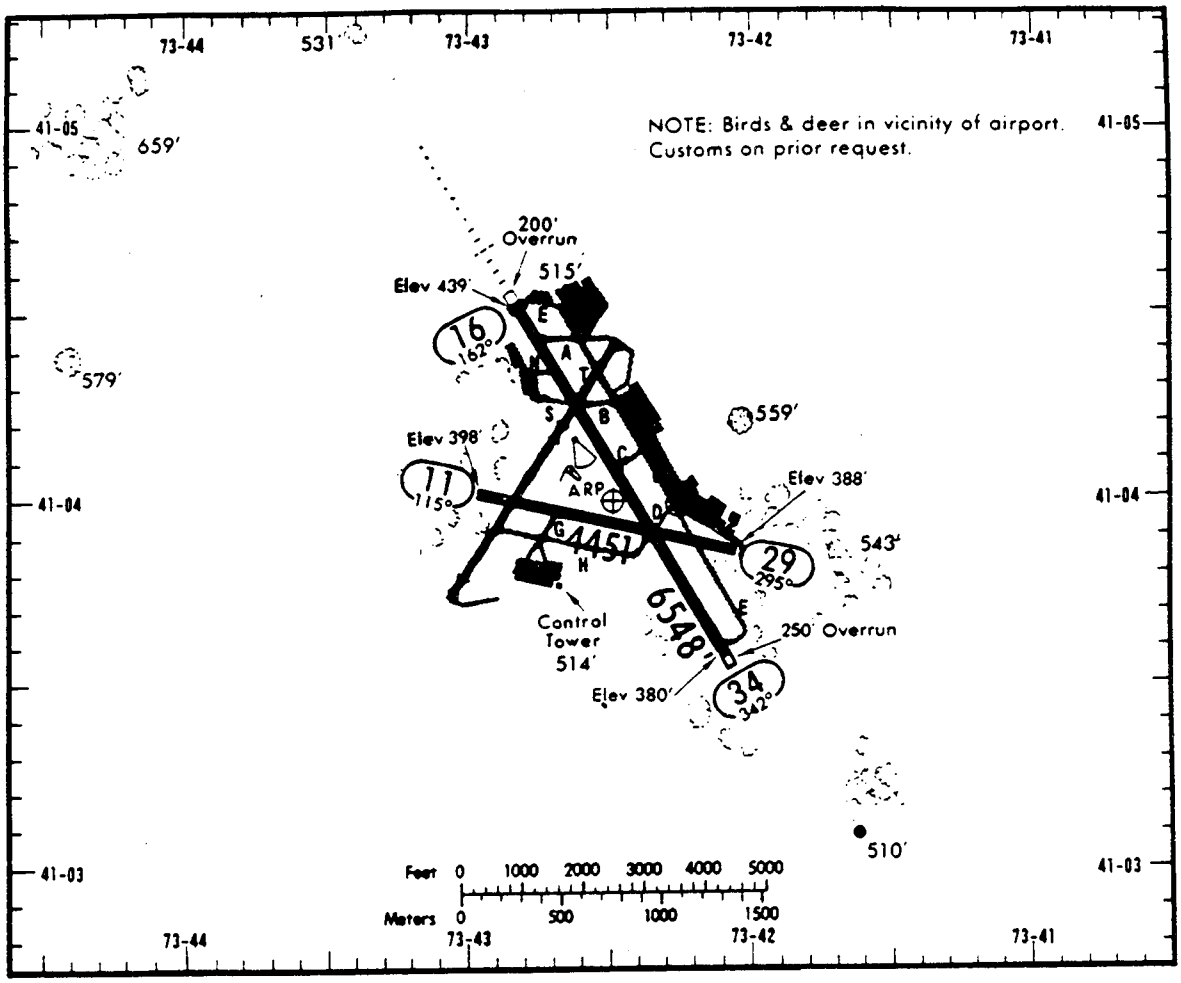
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		2
RLIM		1
Displays		
ATCT	2	
TRACON	–	
NWS	1	
Other	–	
Total Displays		3

FY 93	REPLACE	R/W 04/22, 13

WHITE PLAINS NY (HPN)

AEA



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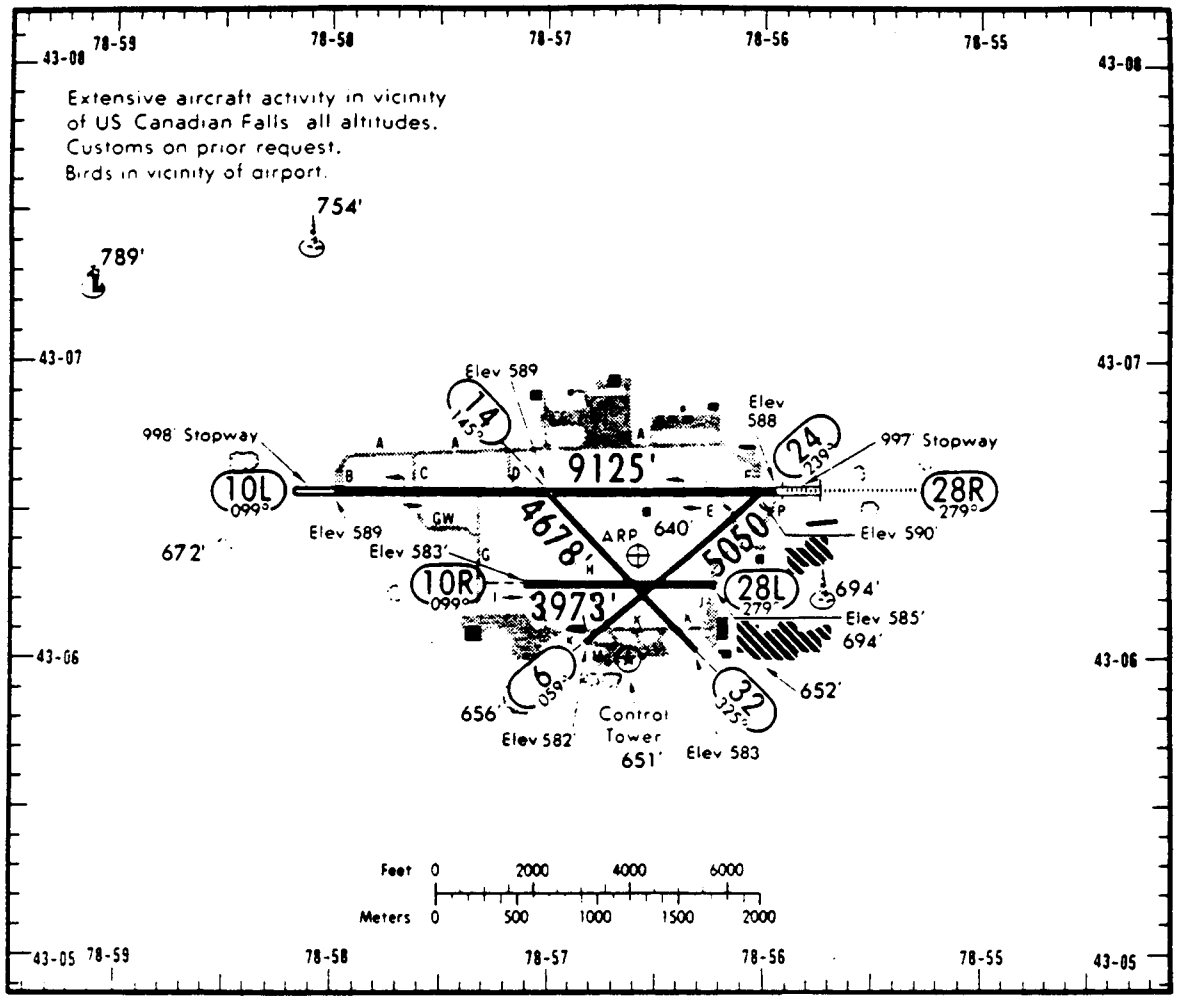
	EXISTING	NEW GENERATION		
16	347AE	System Elements		QTY REQ'D
HPN	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 16

NIAGARA FALLS (IAG)

AEA



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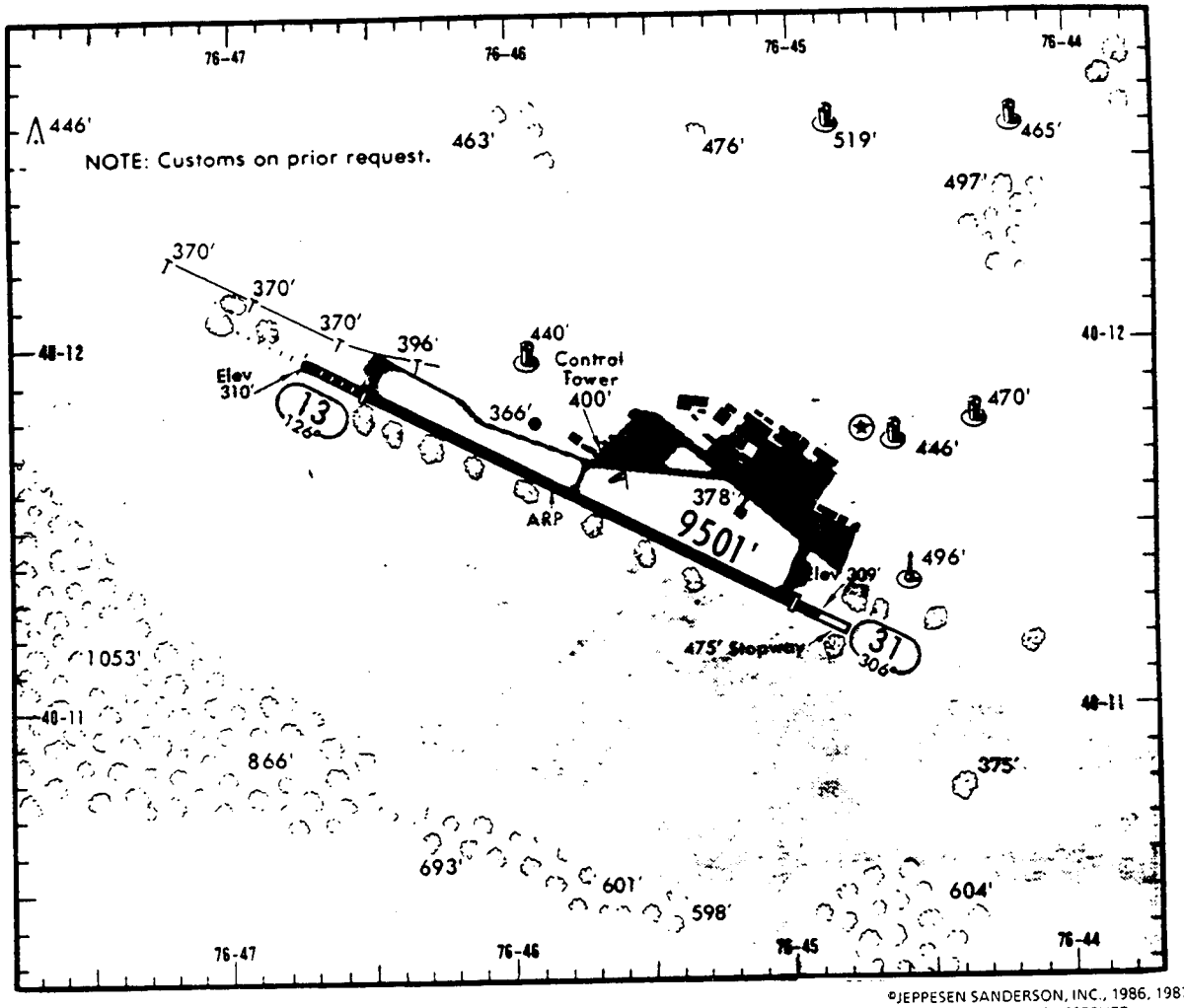
	EXISTING	NEW GENERATION		
28R	347AE	System Elements		QTY REQ'D
IAG	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 28R

AEA

MIDDLETOWN PA (MDT)



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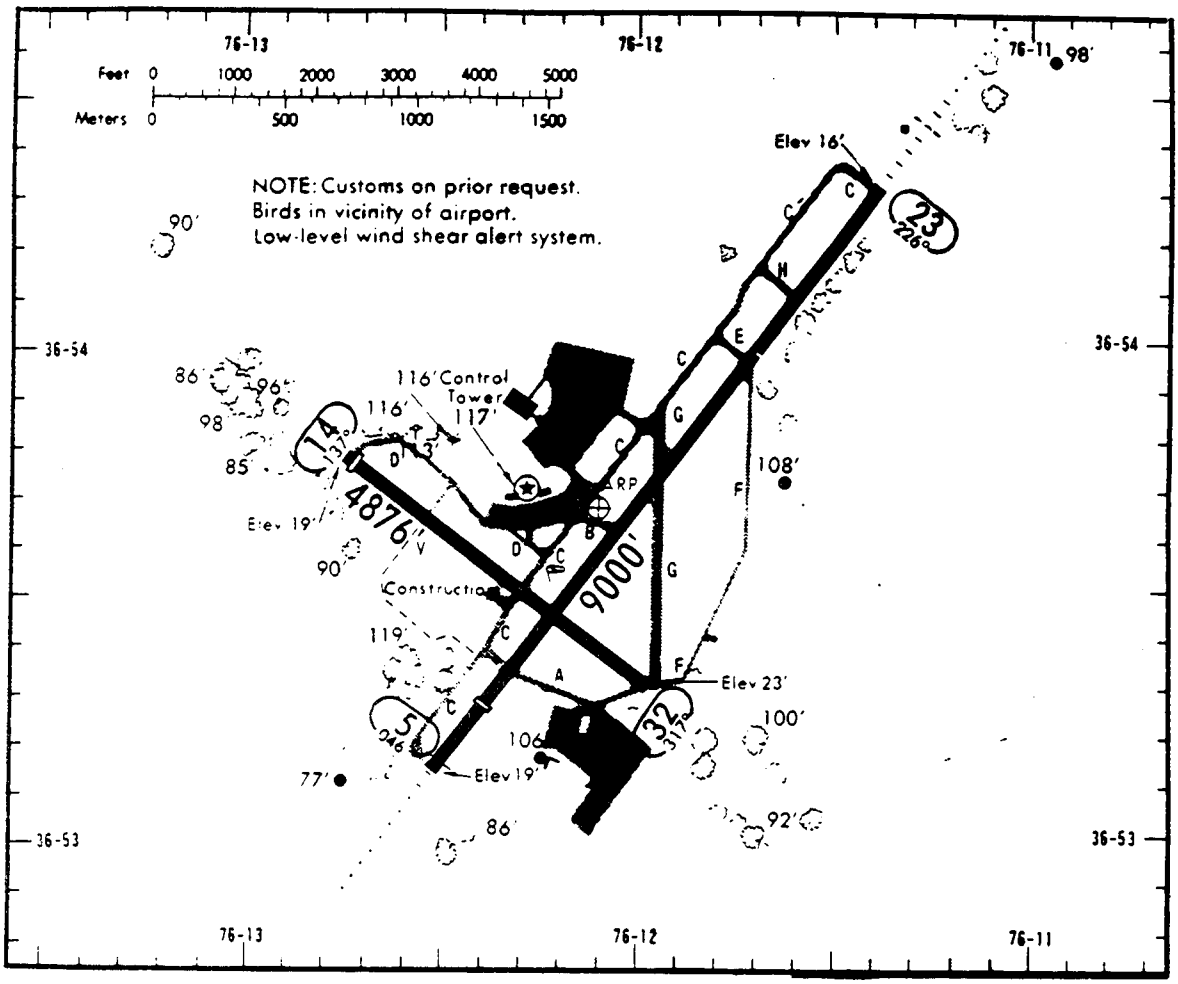
	EXISTING	NEW GENERATION		QTY REQ'D
13	347AE	System Elements		
MDT	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 13

NORFOLK VA (ORF)

AEA



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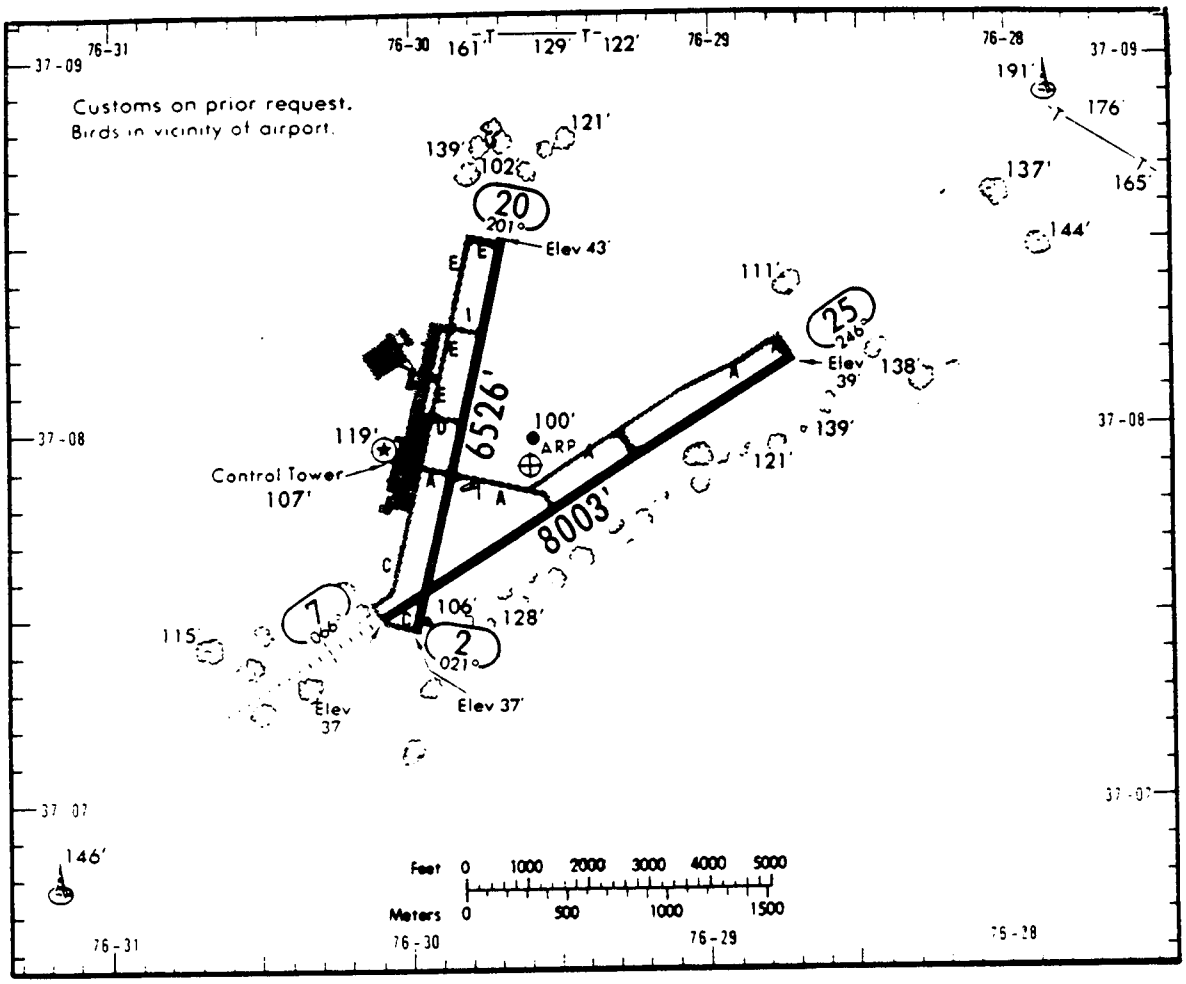
EXISTING		NEW GENERATION		
05	347AE	System Elements		QTY REQ'D
ORF	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 05

NEWPORT NEWS VA (PHF)

AEA



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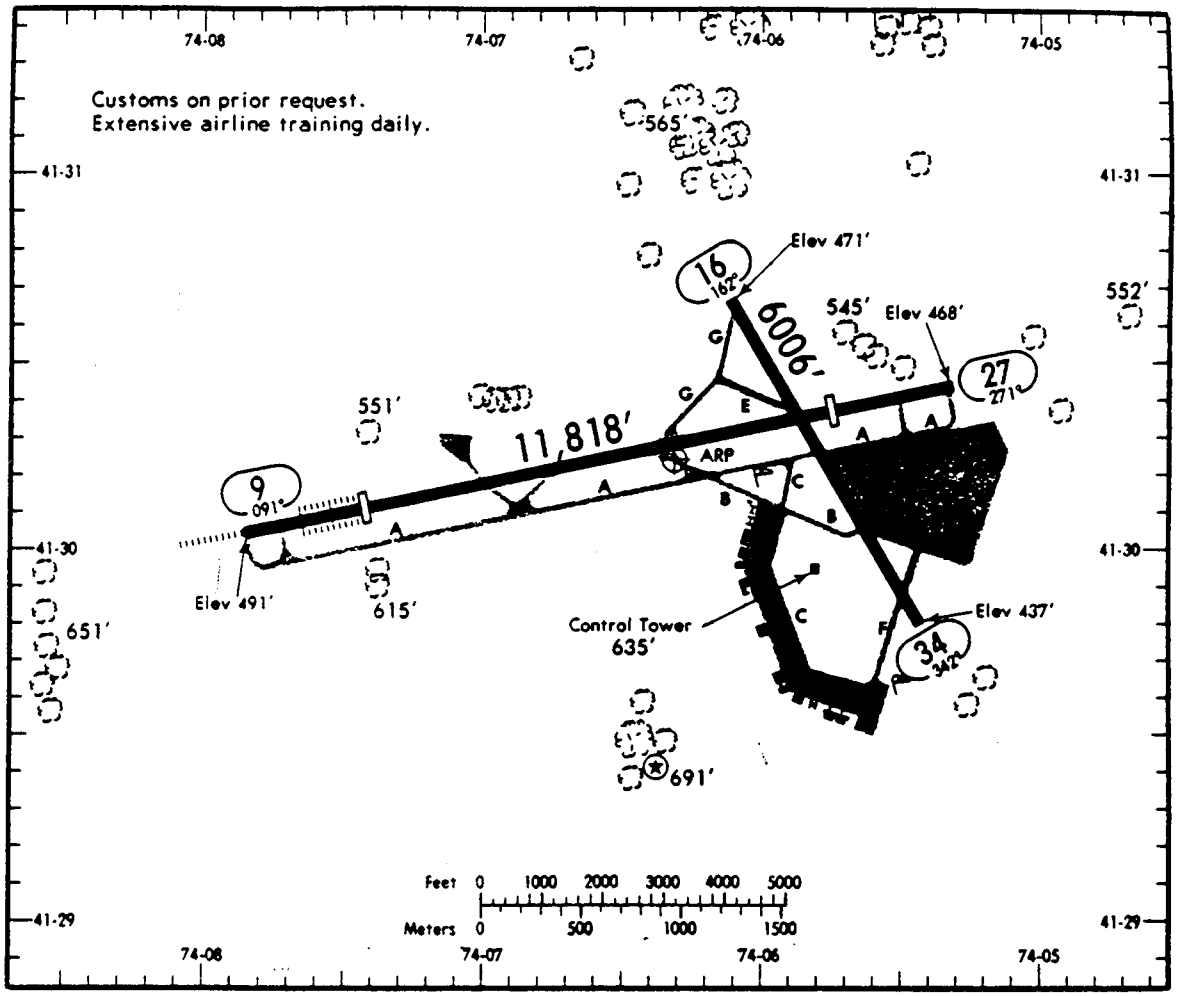
	EXISTING	NEW GENERATION		QTY REQ'D
07	347AE	System Elements		
PHF	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 07

STEWART AIRPORT NY (SWF) AEA



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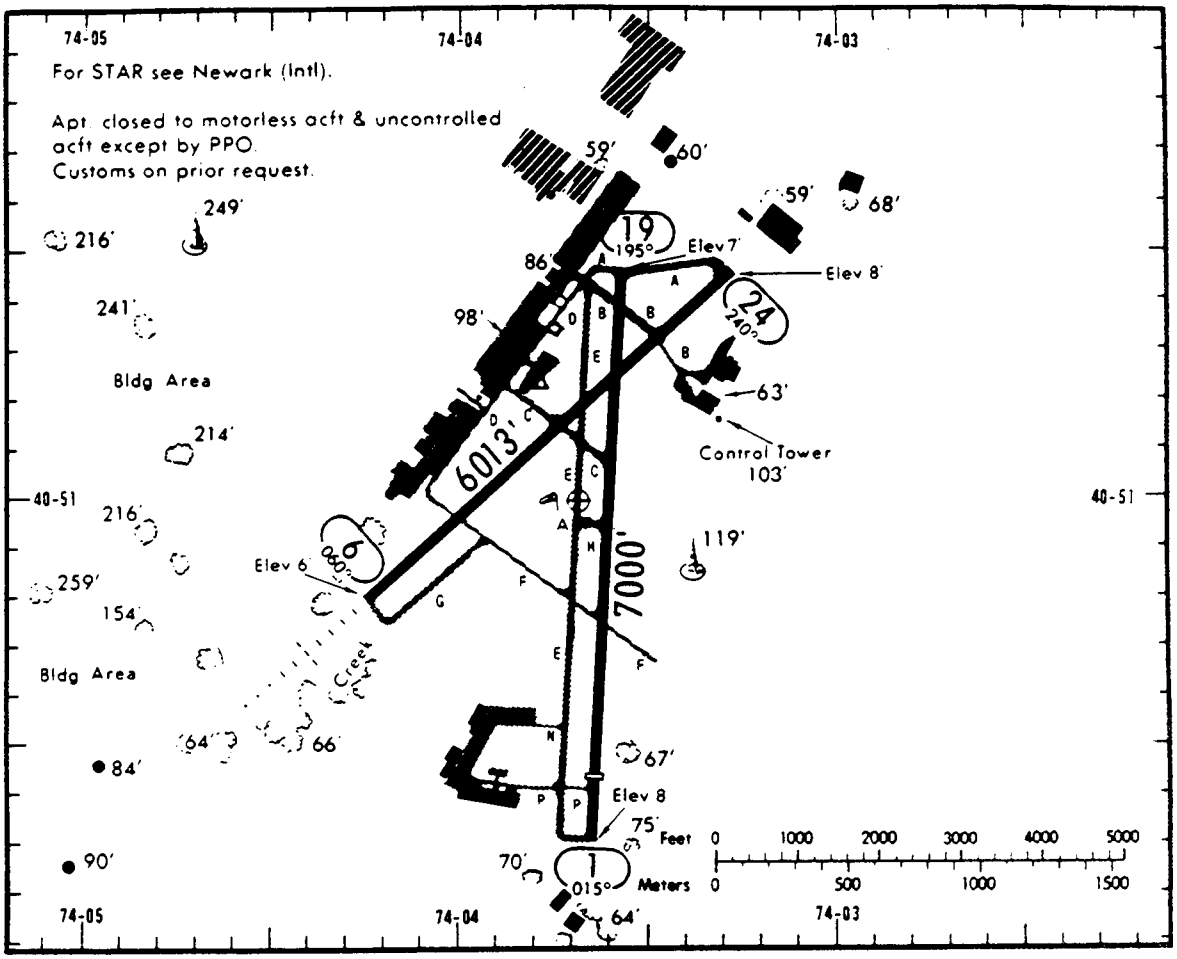
EXISTING		NEW GENERATION		
09	347AE	System Elements		QTY REQ'D
SWFM	MP	Basic		1
SWFR	RO	Sensor Packages		2
SWFT	TD	RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 09

TETERBORO NJ (TEB)

AEA



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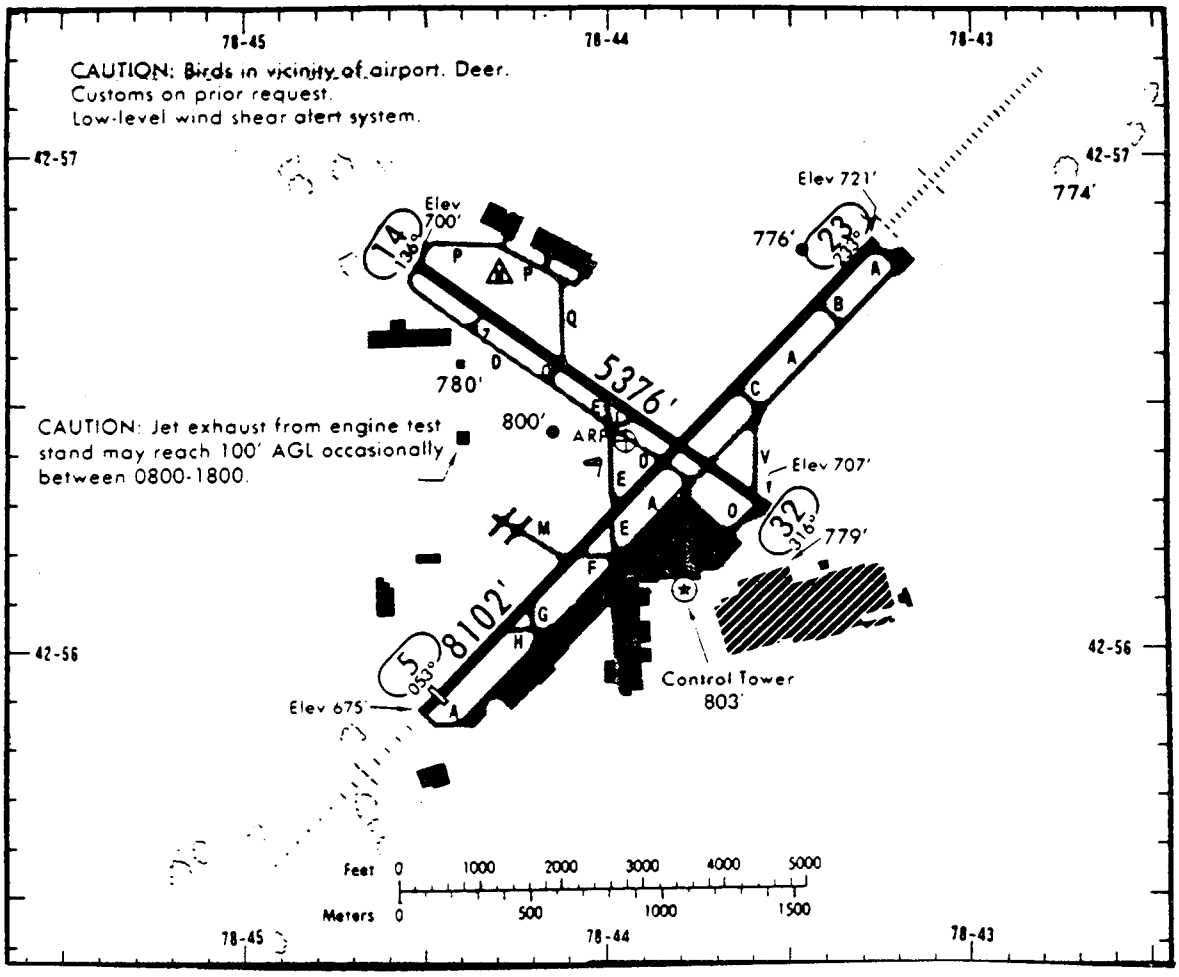
	EXISTING	NEW GENERATION	
06	347AE	System Elements	QTY REQ'D
TEB	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT 1	
		TRACON –	
		NWS –	
		Other –	
		Total Displays	1

FY 93	REPLACE	R/W 06

BUFFALO NY (BUF)

AEA
Appendix 3



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EXISTING		NEW GENERATION		
		System Elements		QTY REQ'D
23	347AE			
BUF	TD	Basic		1
		Sensor Packages		2
05	347AE	RLIM		–
GBI	TD	Displays		
		ATCT	1	
23	347AE	TRACON	2	
BUFM	MP	NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 5/23

APPENDIX 4. AGL SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

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AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO (AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

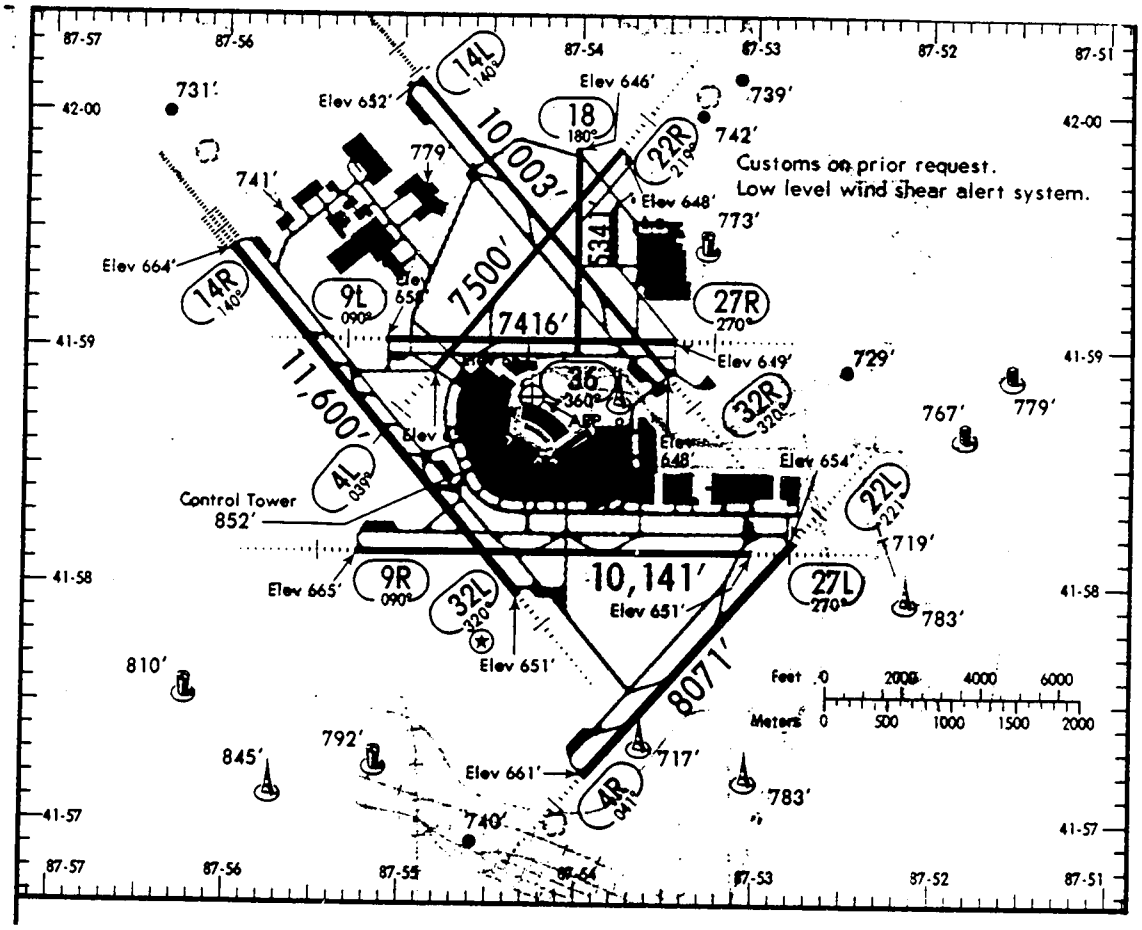
NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

CHICAGO IL (ORD)

AGL



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EXISTING

27R	347AE	ORD	TD
IAC	TD	ORDA	MP
09L	347AE	32L	347AE
JAV	TD	RVG	TD
27L	374AE		
TSL	TD		
09R	347AE		
MED	TD		
32R	347AE		
IDW	TD		
14L	347AE		
OHA	TD		
OHAA	MP		

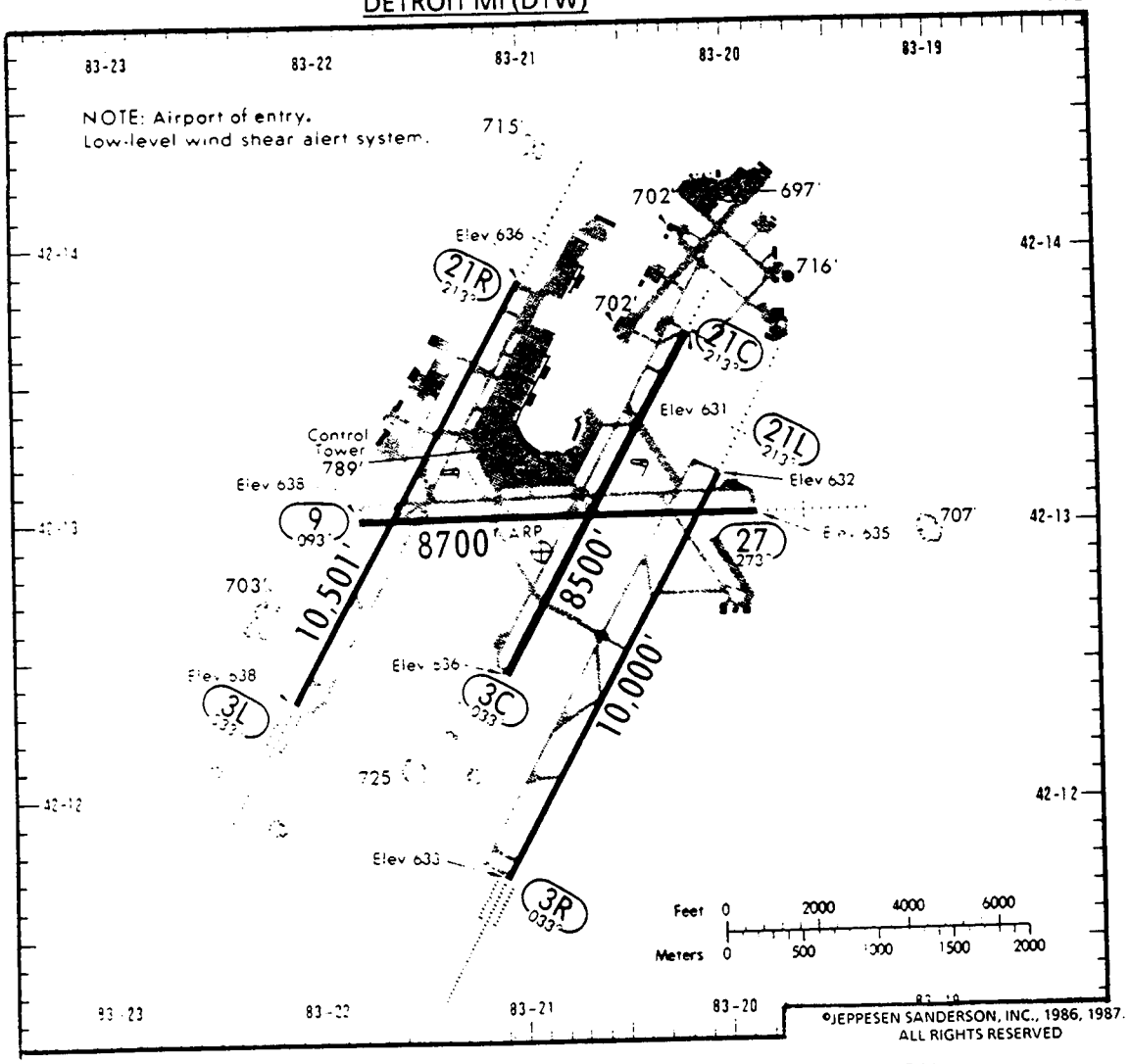
NEW GENERATION

System Elements		QTY REQ'D
Basic		2
Sensor Packages		10
RLIM		4
Displays		
ATCT	12	
TRACON	13	
NWS	2	
Other	–	
Total Displays		27

FY 84	CAT IIIb	R/W 14R & 14L
FY 84	ESTABLISH	R/W 04R
FY 84	ESTABLISH	R/W 22R

DETROIT MI (DTW)

AGL



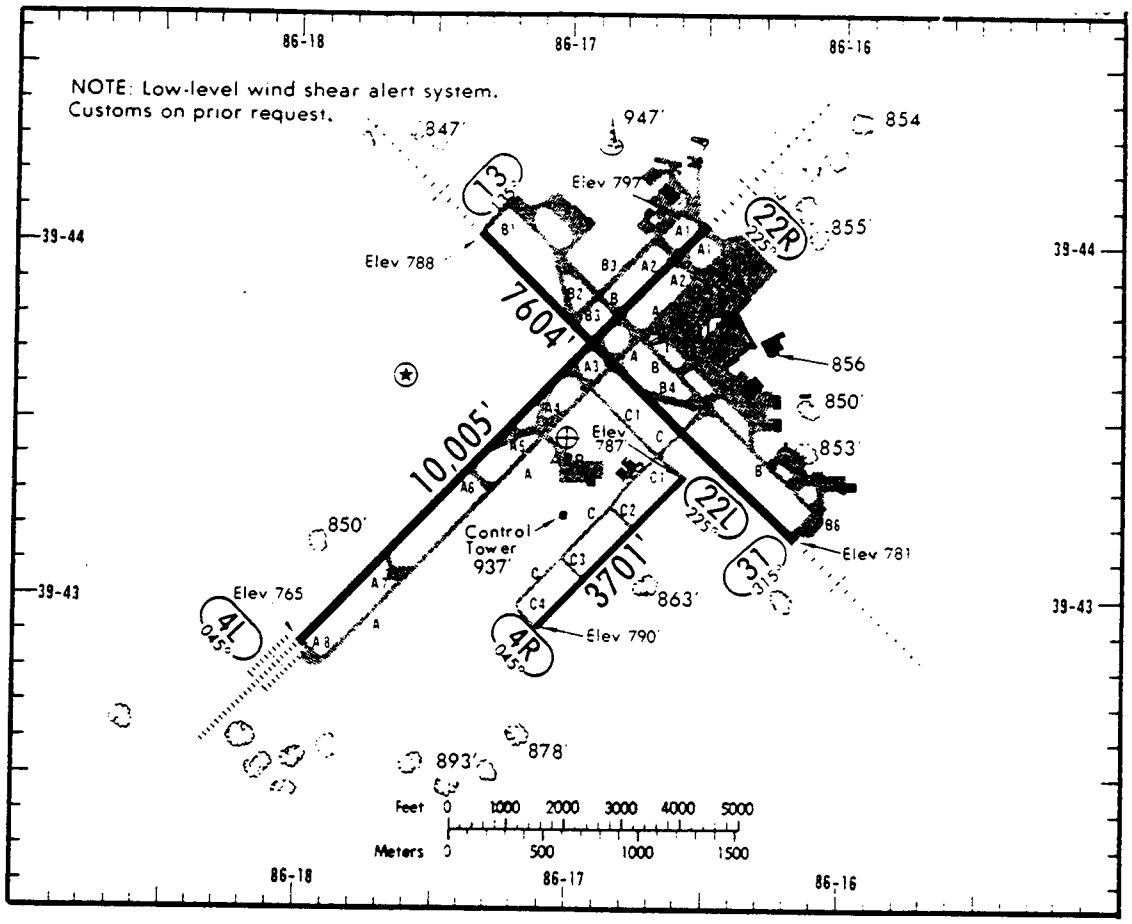
	EXISTING	NEW GENERATION
03L	347AE	
DTW	TD	
DTWA	MP	
DTWB	RO	
03R	347AE	
HUU	TD	
HUUA	MP	
HUUB	RO	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		5
RLIM		1
Displays		
ATCT	4	
TRACON	4	
NWS	1	
Other	–	
Total Displays		9

FY 84	CAT IIIb	R/W 03L

INDIANAPOLIS IN (IND)

AGL



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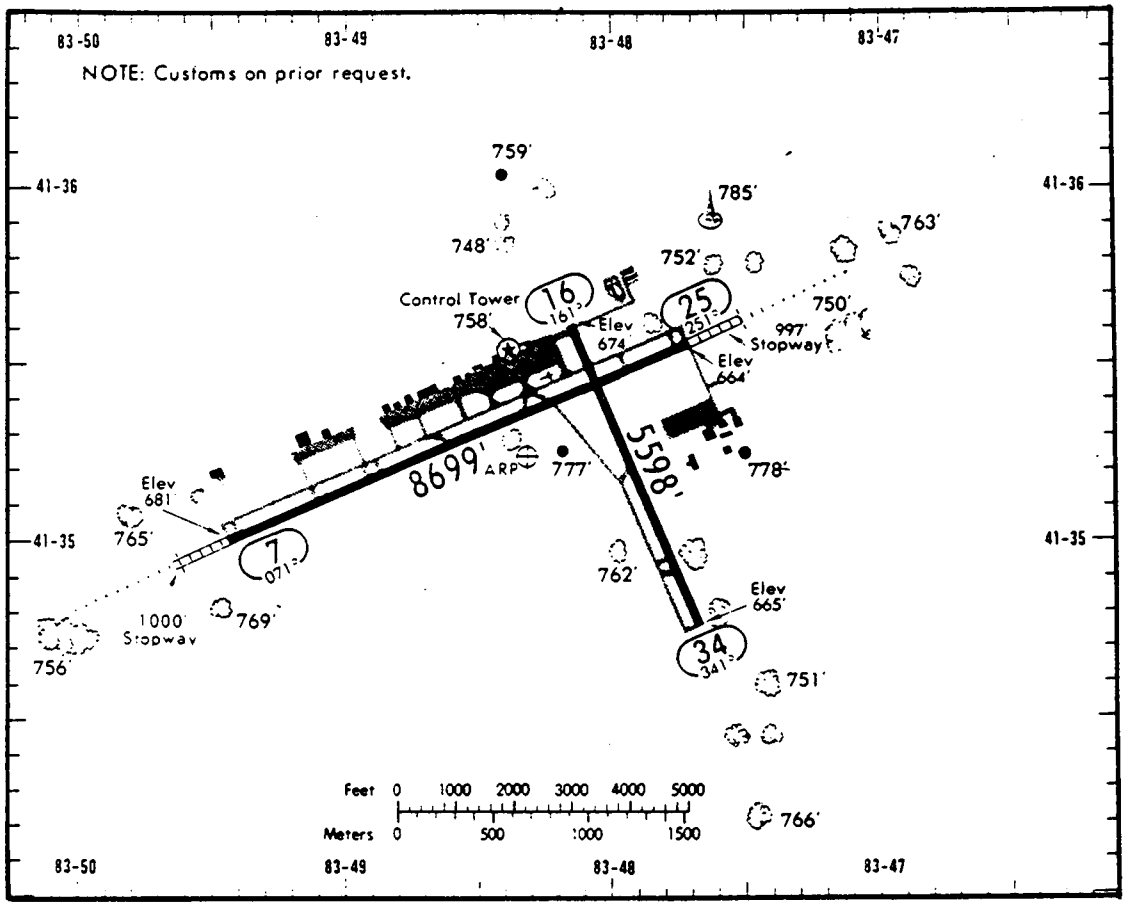
	EXISTING	NEW GENERATION		QTY REQ'D
31	347AE	System Elements		
COA	TD	Basic		1
		Sensor Packages		4
04L	347AE	RLIM		1
IND	TD	Displays		
INDA	MP	ATCT	4	
INDR	RO	TRACON	4	
		NWS	1	
		Other	–	
		Total Displays		9

FY 84	ESTABLISH	R/W 13

TOLEDO OH (TOL)

AGL



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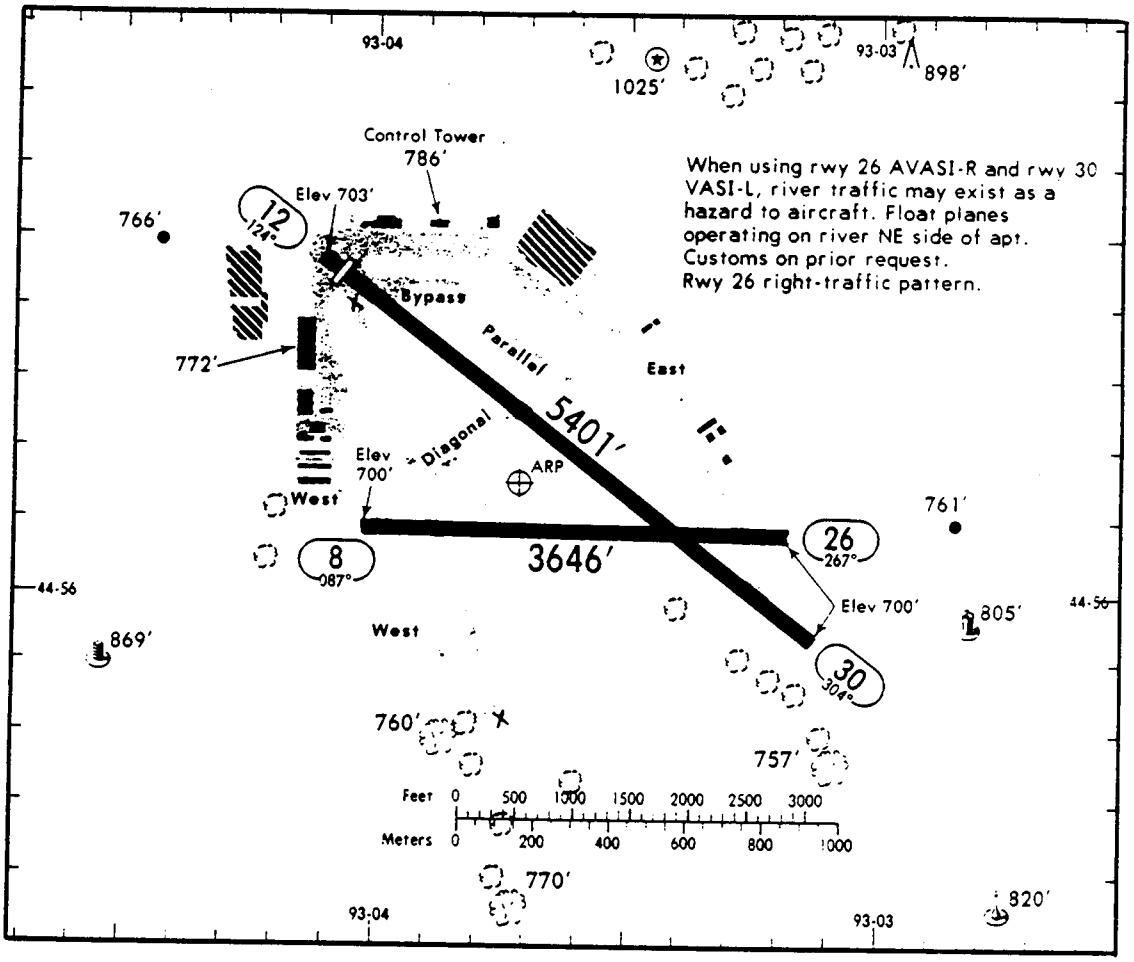
	EXISTING	NEW GENERATION		QTY REQ'D
07	347AE	System Elements		
TOL	TD	Basic		1
		Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		7

FY 84	ESTABLISH	R/W 25

ST. PAUL MN (STP)

AGL



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EXISTING

NONE

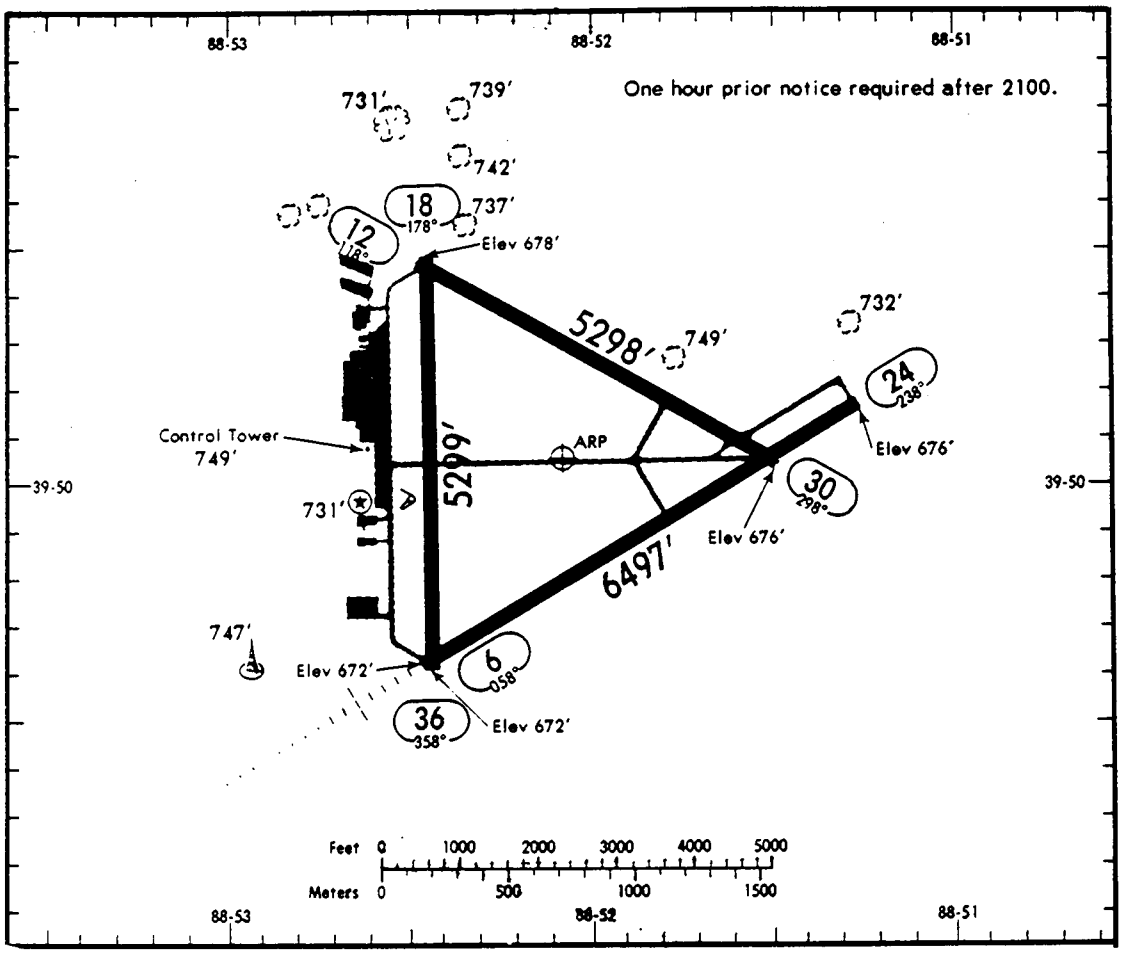
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 30

DECATUR IL (DEC)

AGL



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EXISTING

NONE

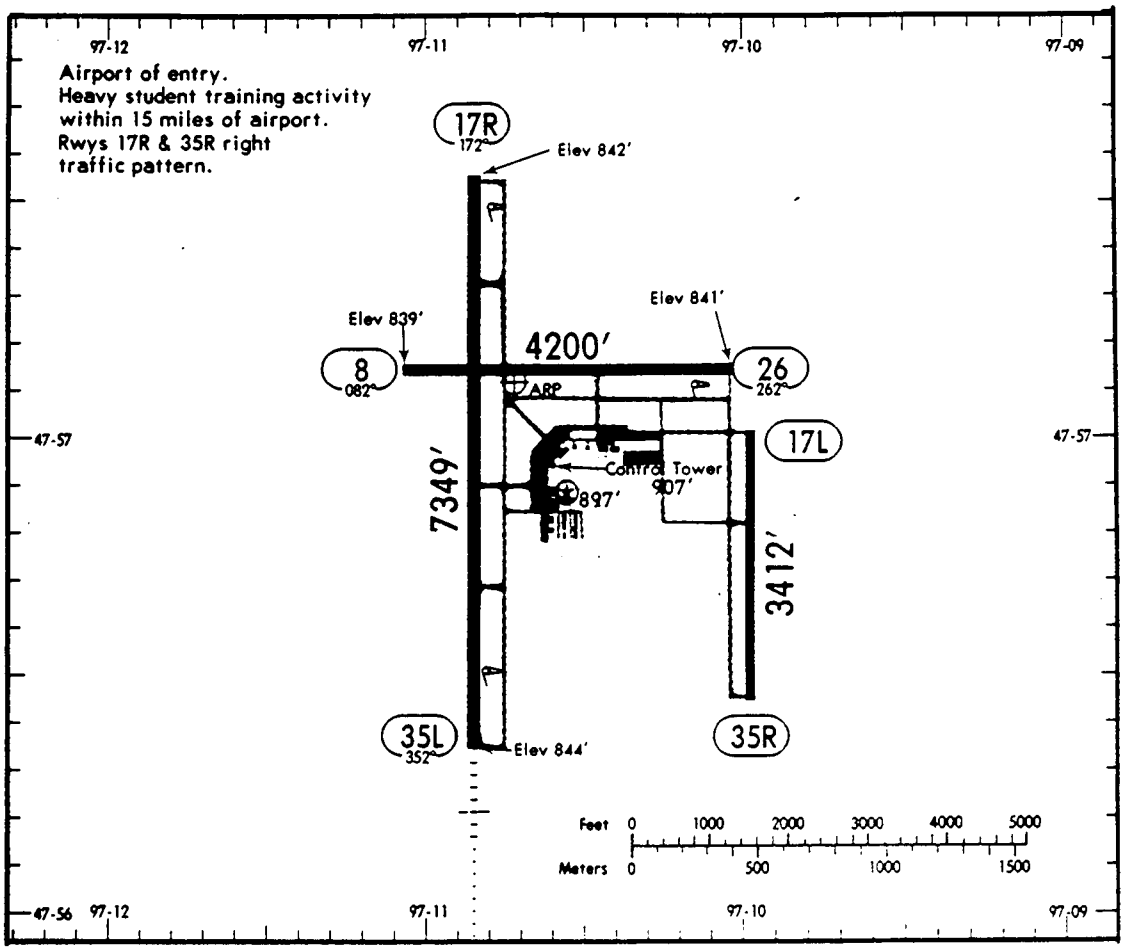
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 06

GRAND FORKS ND (GFK)

AGL



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EXISTING

NONE

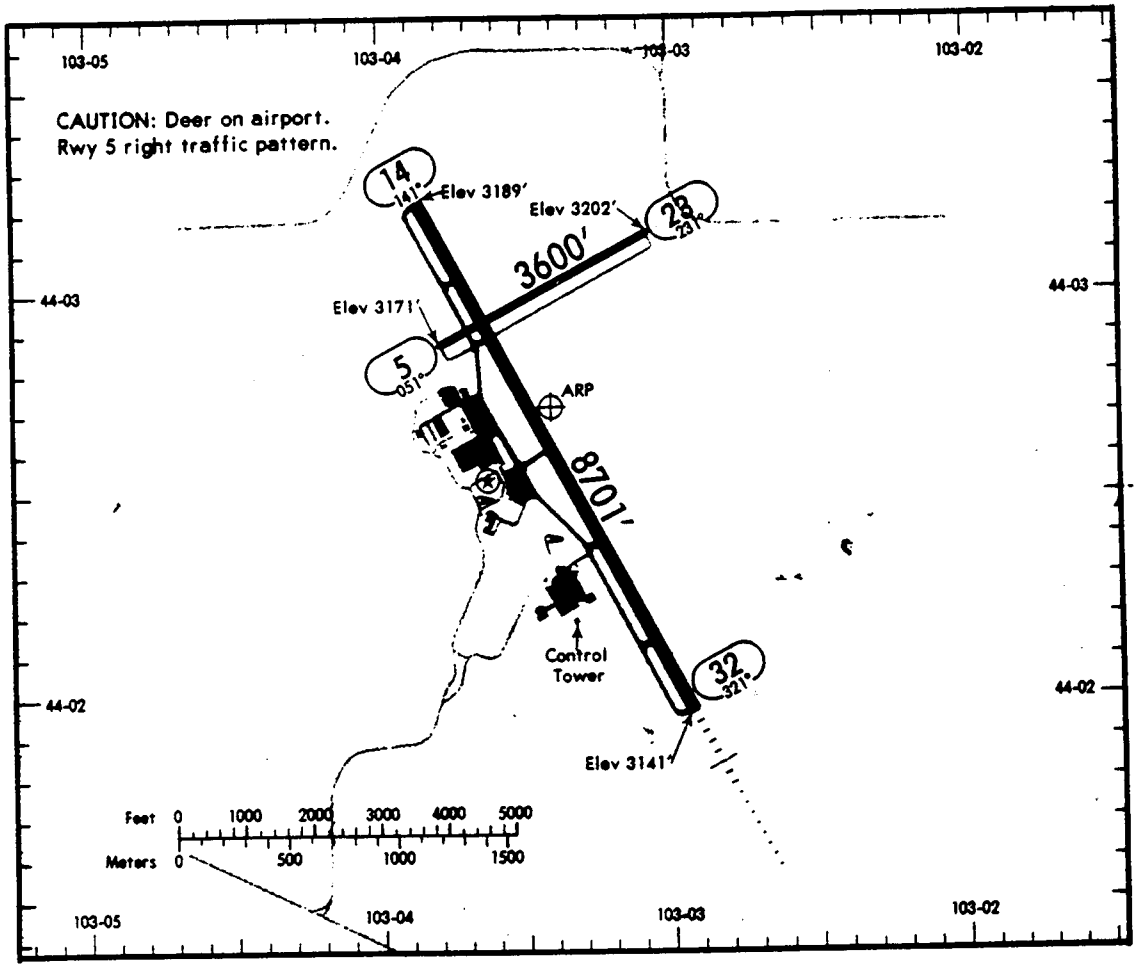
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 35

AGL

RAPID CITY SD (RAP)



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EXISTING

NONE

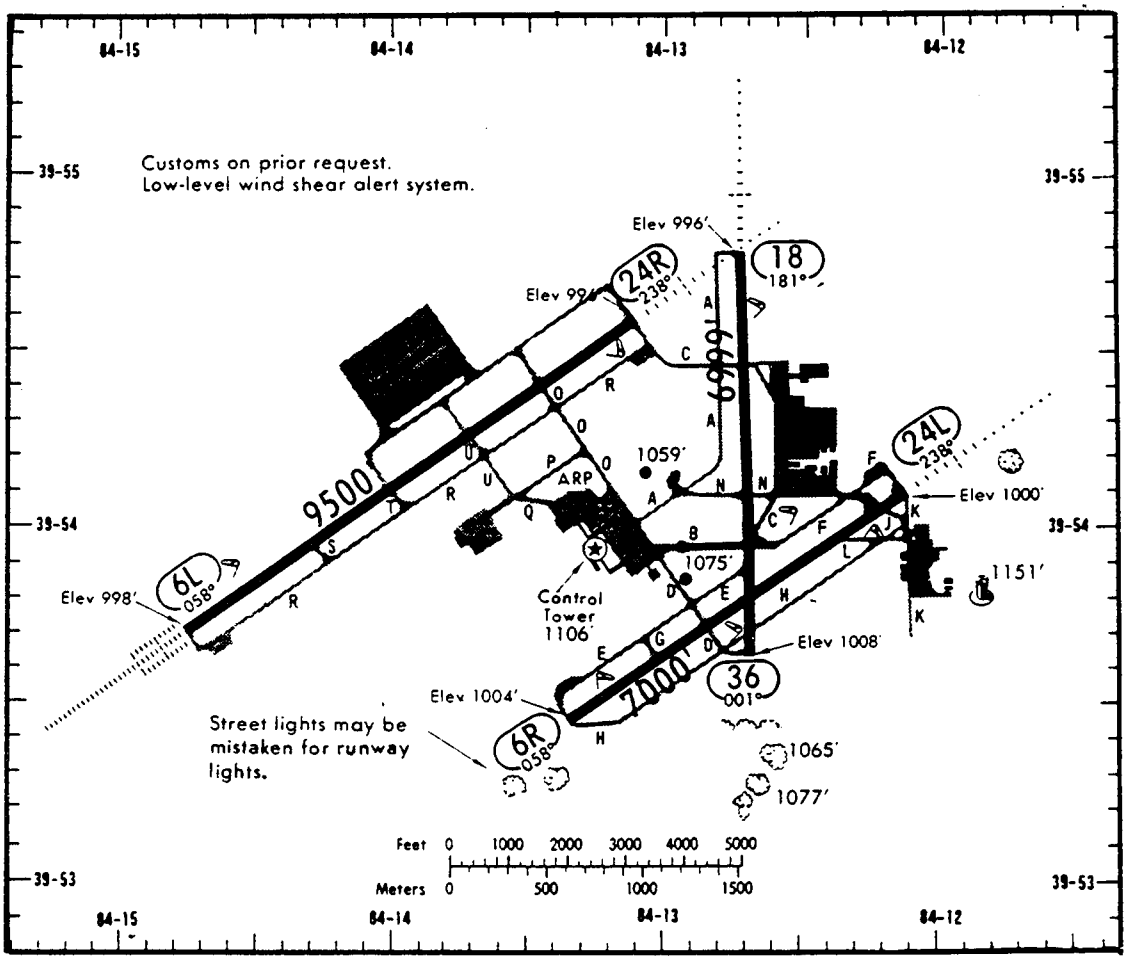
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 32

DAYTON OH (DAY)

AGL



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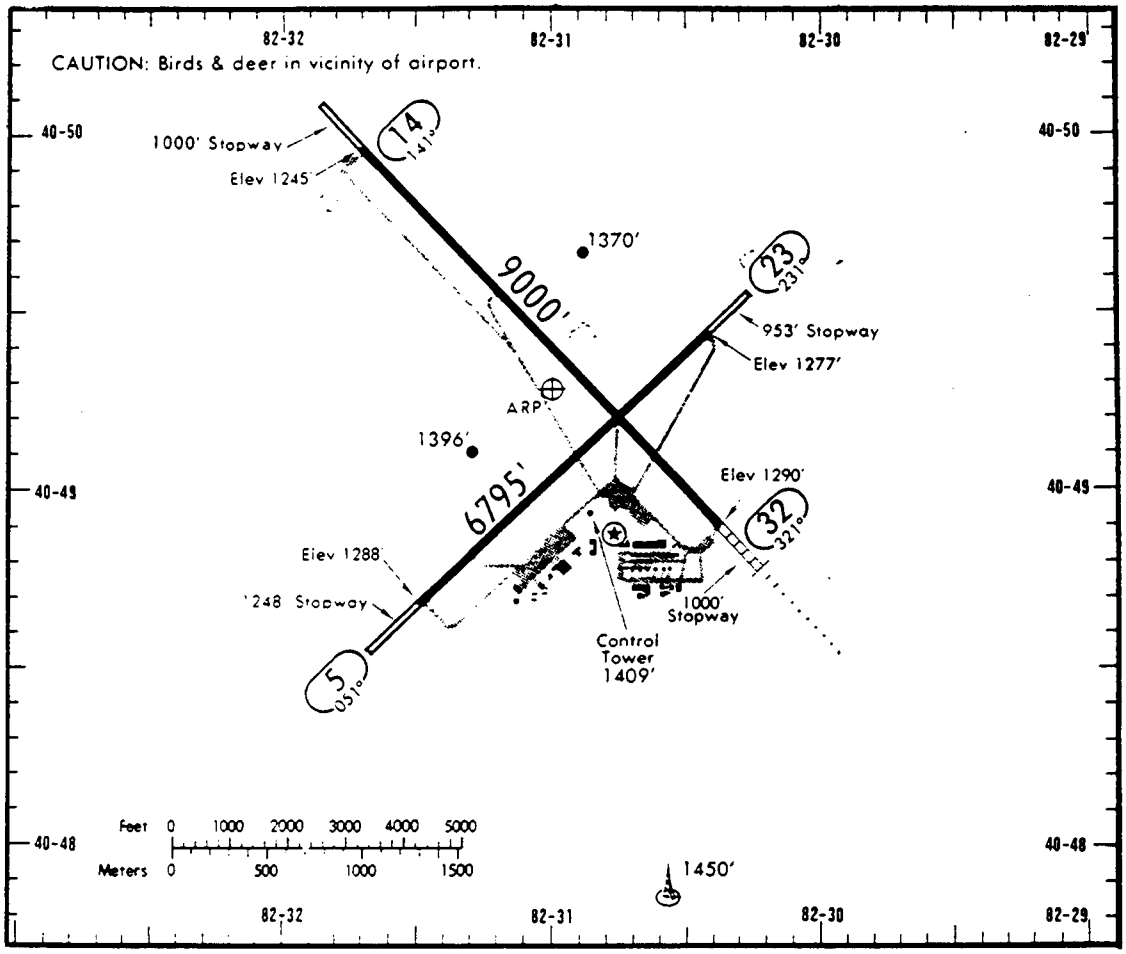
	EXISTING		NEW GENERATION		
06L	347AC		System Elements		QTY REQ'D
ATD	TD		Basic		1
ATDB	RO		Sensor Packages		2
			RLIM		–
06L	347AD		Displays		
			ATCT	2	
ATDA	MP		TRACON	2	
			NWS	–	
			Other	–	
			Total Displays		4

FY 85	REPLACE	R/W 06L

MANSFIELD OH (MFD)

AGL



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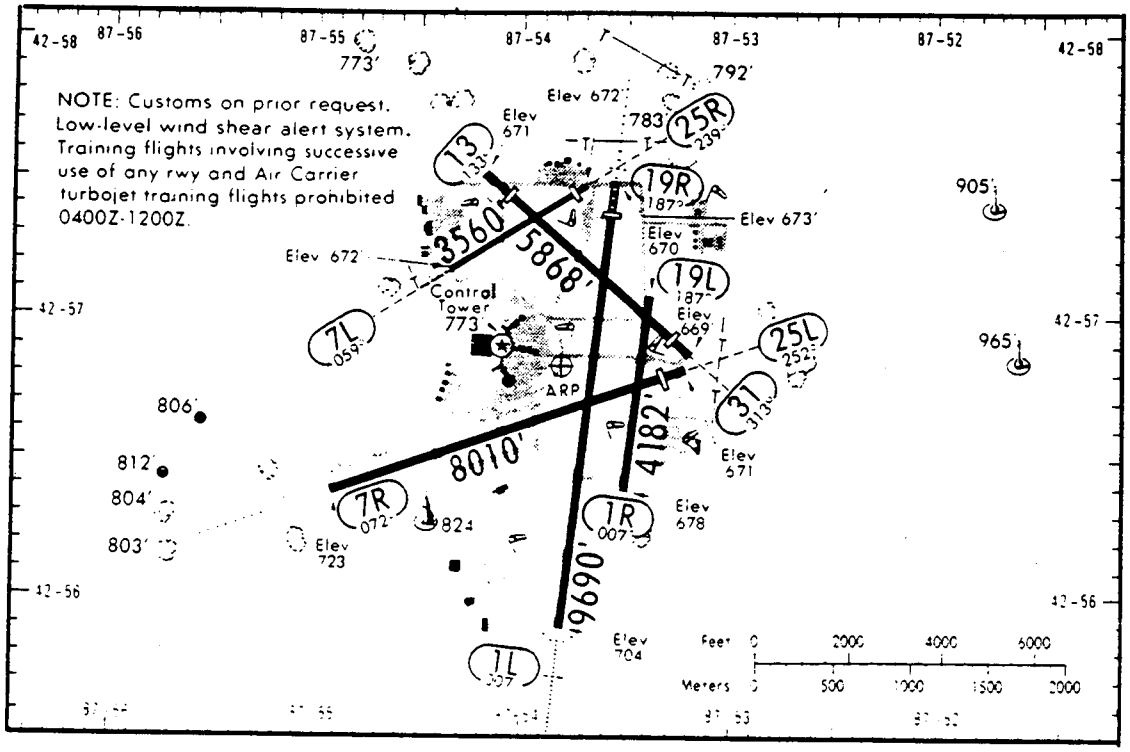
	EXISTING	NEW GENERATION		
32	347AC	System Elements		QTY REQ'D
MFD	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		2

FY 85	REPLACE	R/W 32

MILWAUKEE WI (MKE)

AGL



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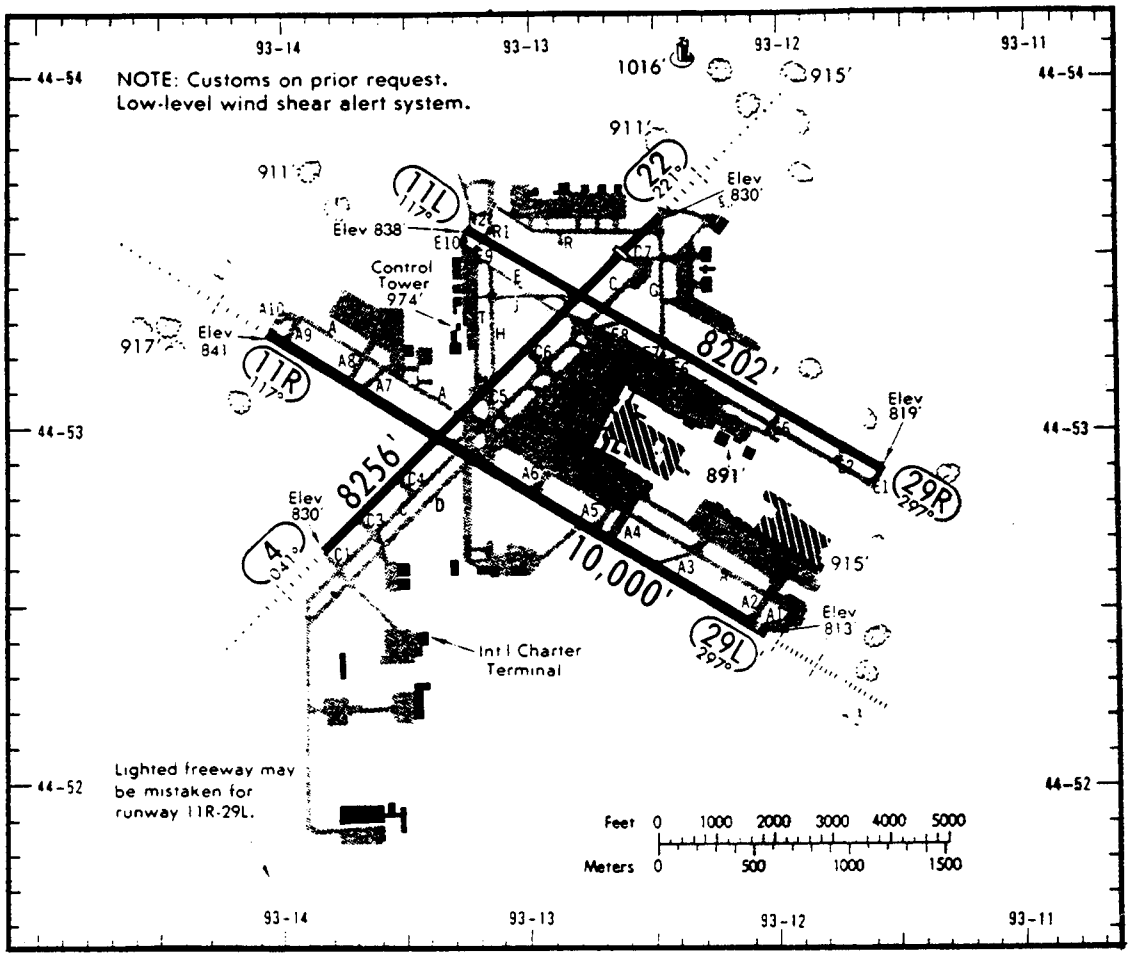
EXISTING				NEW GENERATION		
07R	347AC	01L	347AE	System Elements		QTY REQ'D
GMF	TD	MKE	TD	Basic		1
				Sensor Packages		3
01L	347AC			RLIM		1
				Displays		
MKEA	RO			ATCT	2	
				TRACON	2	
01L	347AD			NWS	1	
				Other	–	
MKEB	MP					
				Total Displays		5

FY 85	REPLACE	R/W 01L/07R

MINNEAPOLIS MN (MSP)

AEA



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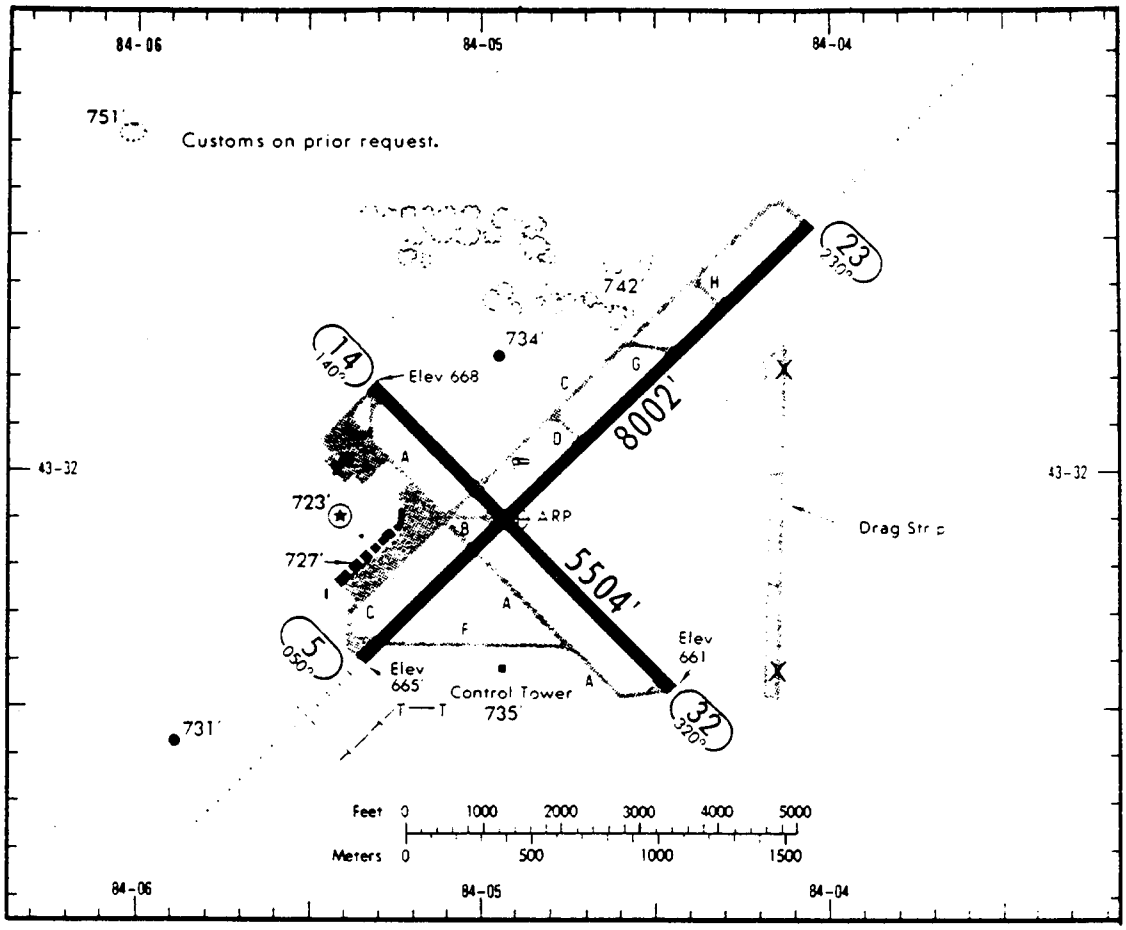
	EXISTING	NEW GENERATION		
04	347AC	System Elements		QTY REQ'D
APL	TD	Basic		1
		Sensor Packages		3
29L	347AC	RLIM		1
		Displays		
MSP	TD	ATCT	3	
MSPA	RO	TRACON	2	
		NWS	1	
29L	347AD	Other	–	
MSPB	MP	Total Displays		6

FY 85	REPLACE	R/W 04/29L

SAGINAW MI (MBS)

AGL



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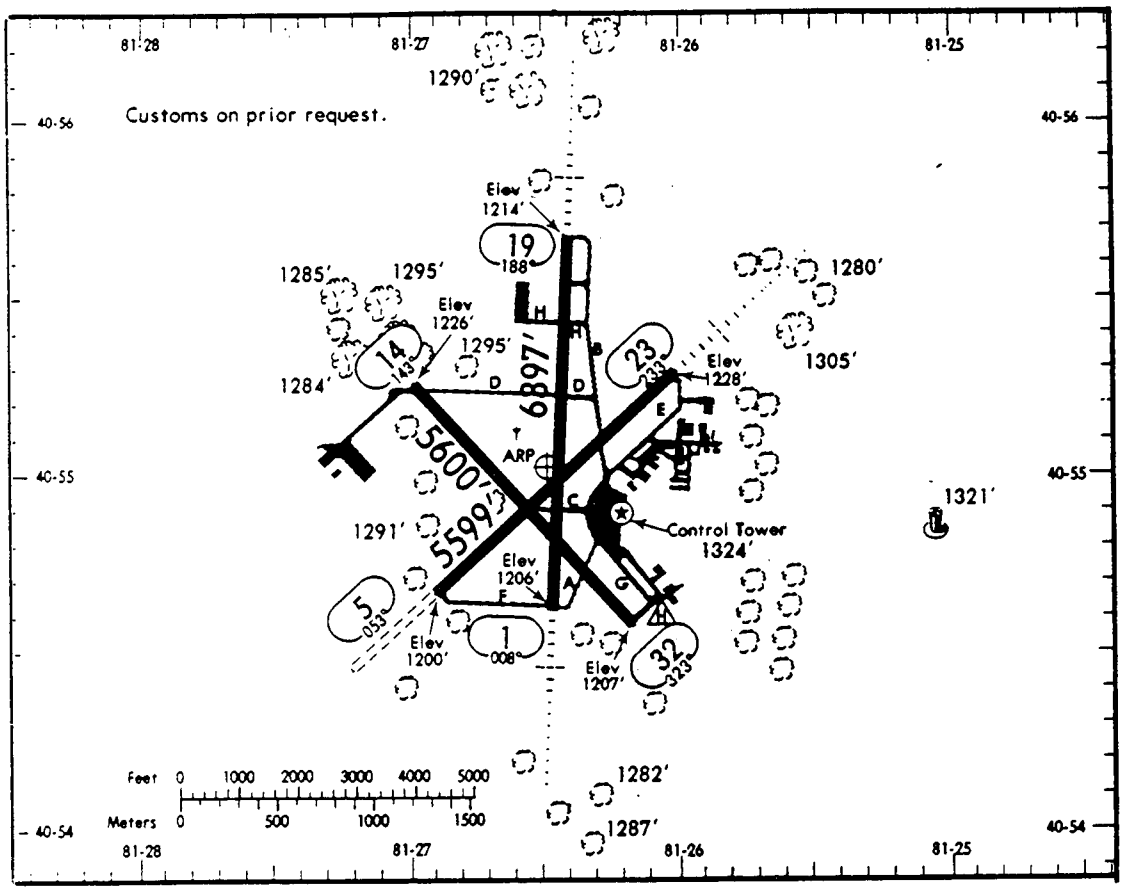
	EXISTING	NEW GENERATION		
05	347AC	System Elements		QTY REQ'D
MBS	TD	Basic		1
		Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		4

FY 85	REPLACE	R/W 05
FY 86	ESTABLISH	R/W 23

AKRON CANTON OH (CAK)

AGL



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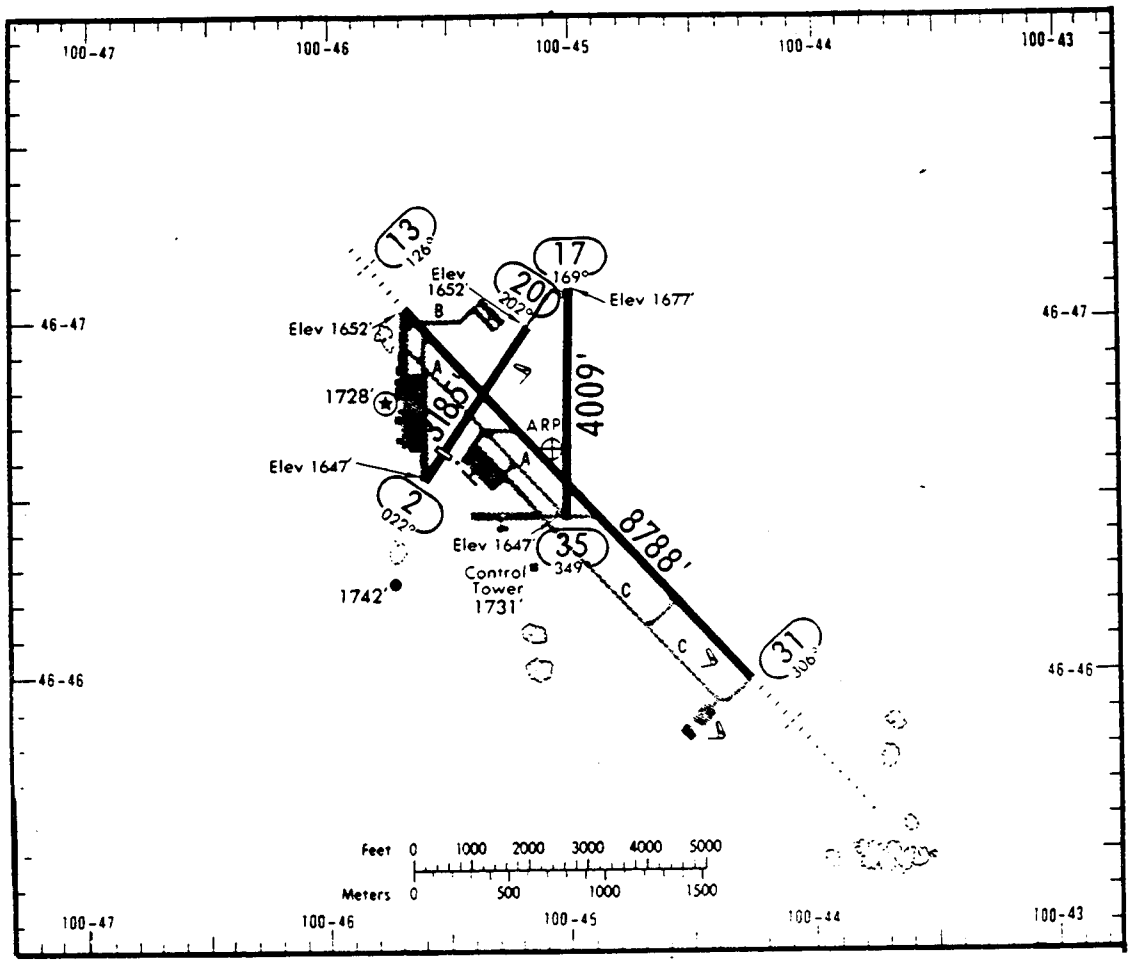
	EXISTING	NEW GENERATION		QTY REQ'D
01	347AD	System Elements		QTY REQ'D
CAK	TD	Basic		1
		Sensor Packages		1
		RLIM		1
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 86	ESTABLISH	R/W 23
FY 86	REPLACE	R/W 04

BISMARCK ND (BIS)

AGL



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EXISTING

NONE

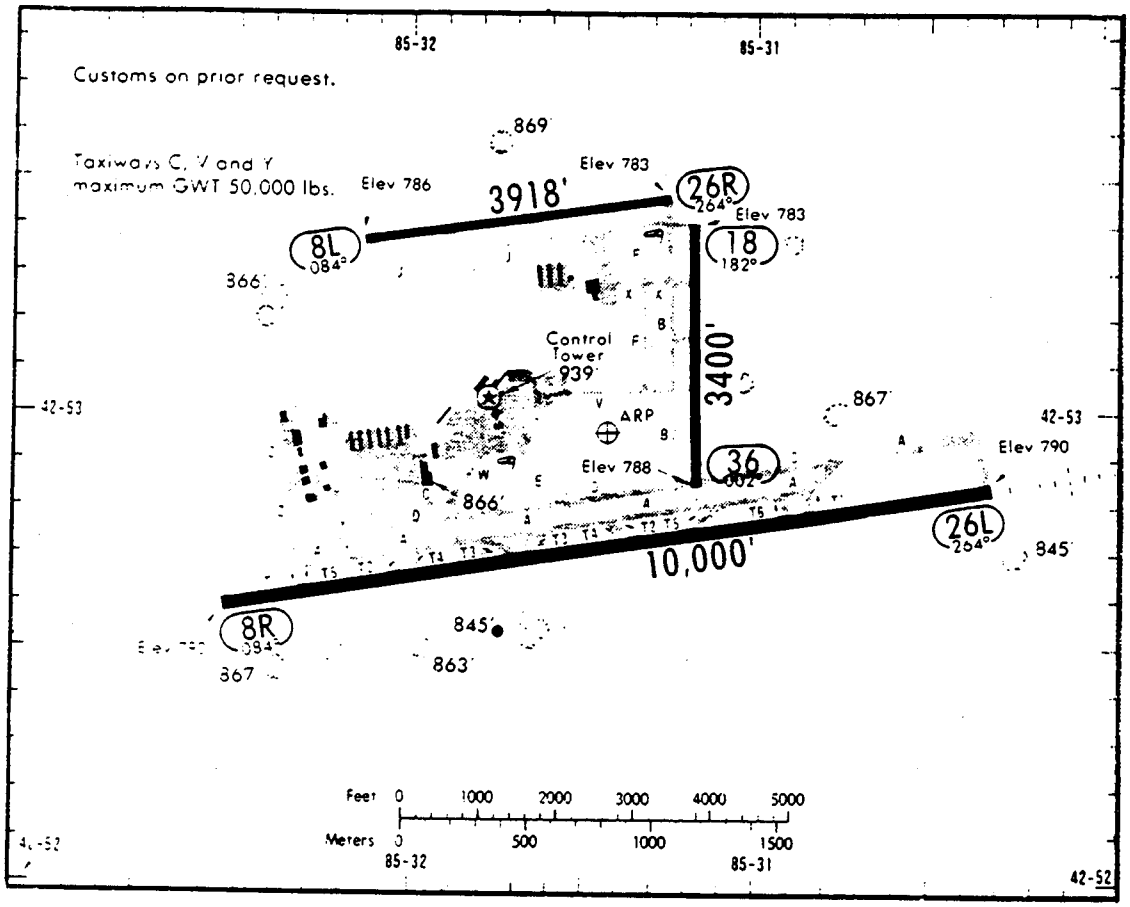
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 86	ESTABLISH	R/W 31

GRAND RAPIDS (GRR)

AGL



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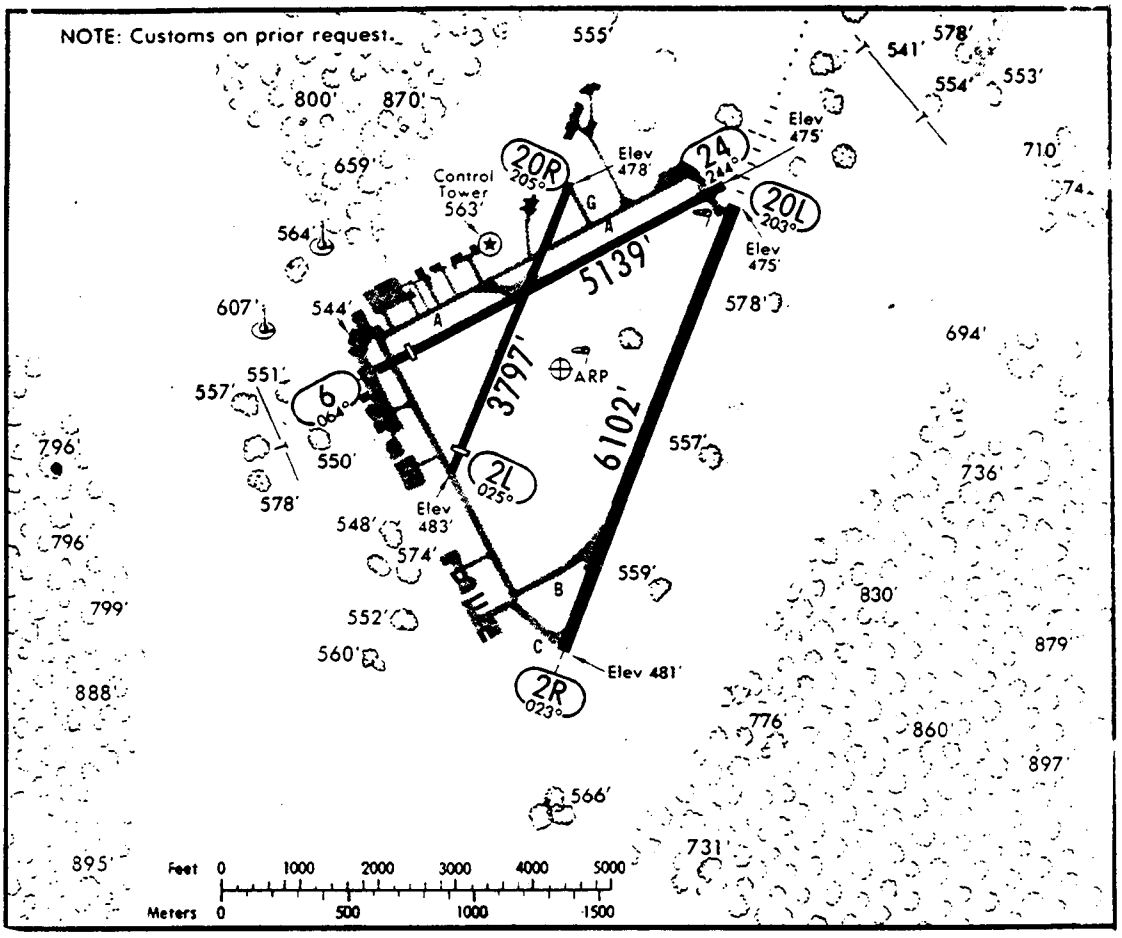
	EXISTING	NEW GENERATION
26L	347AE	
GRR	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	1	
NWS	–	
Other	–	
Total Displays		3

FY 86	ESTABLISH	R/W 08R

CINCINNATI OH (LUK)

AGL



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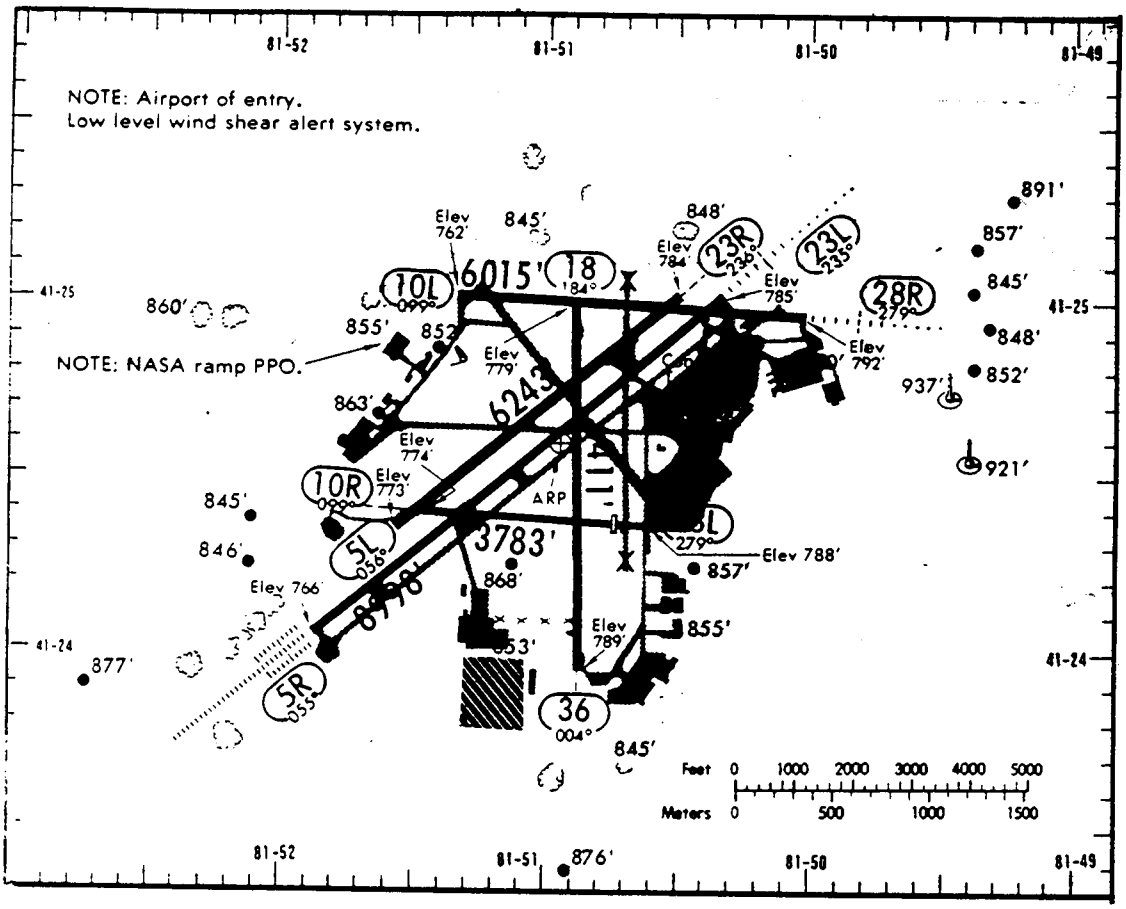
	EXISTING	NEW GENERATION		QTY REQ'D
20L	347AD	System Elements		QTY REQ'D
LUK	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 86	REPLACE	R/W 20L

CLEVELAND OH (CLE)

AGL



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EXISTING

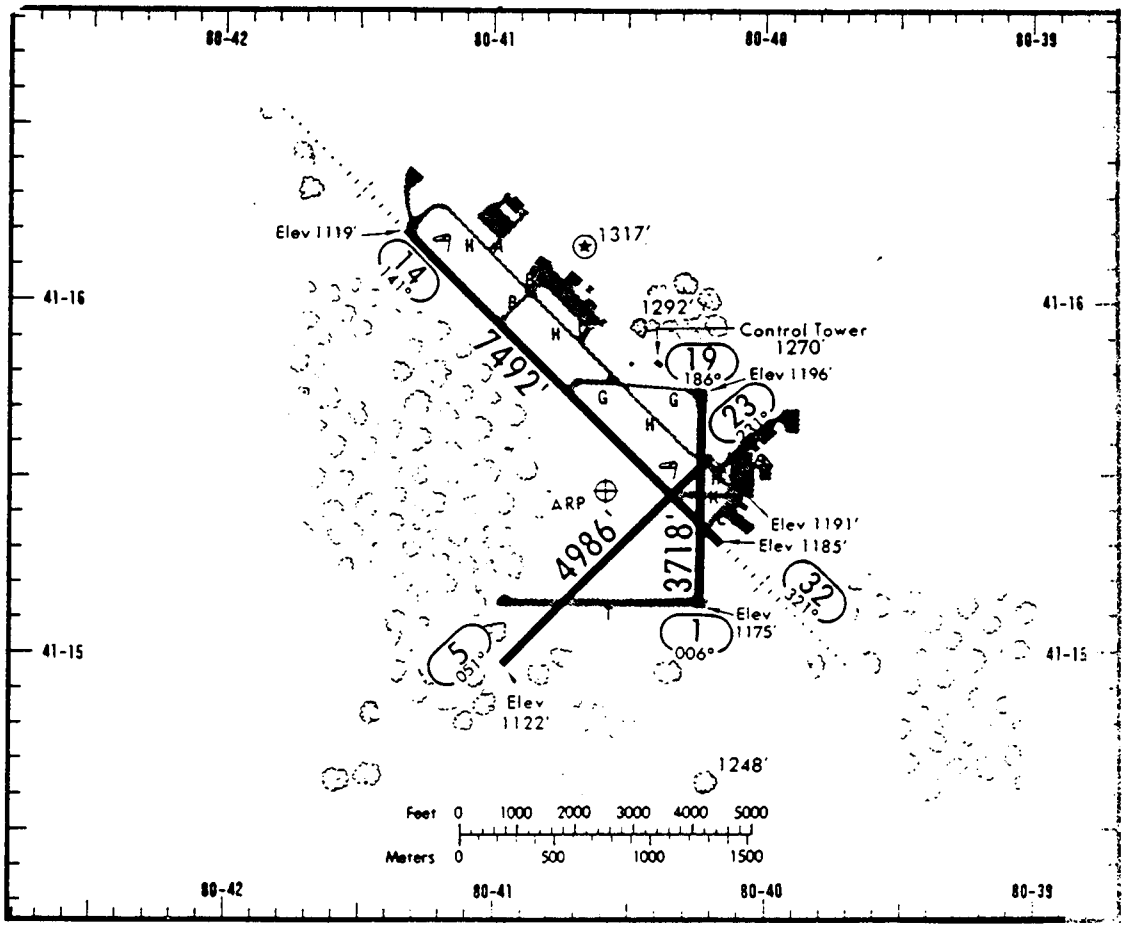
28R	347AD
CEE	TD
05R	347AD
CLE	TD
CLEA	MP
CLEB	RO

NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	–	
Total Displays		5

FY 86	REPLACE	R/W 05R, 28R

YOUNGSTOWN OH (YNG) AGL



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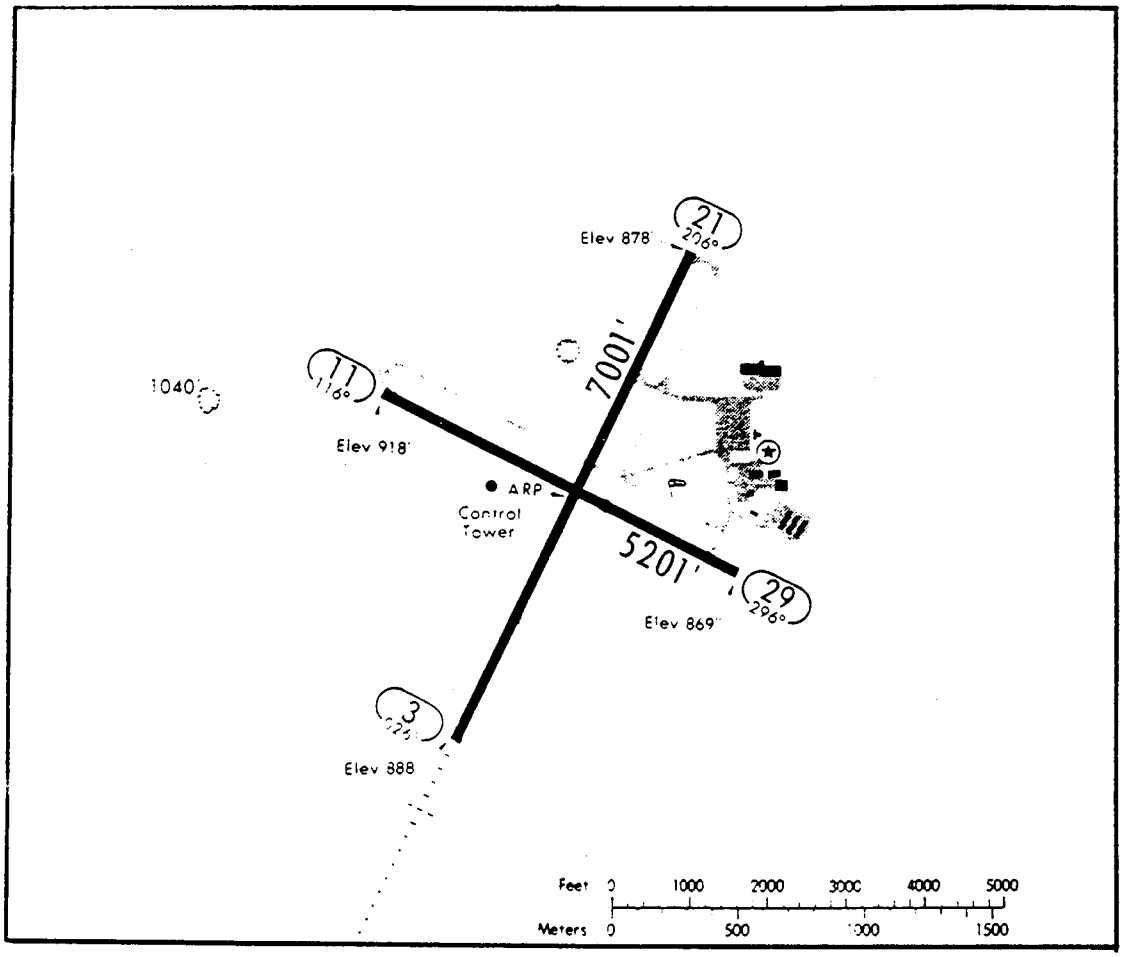
	EXISTING	NEW GENERATION		
32	347AD	System Elements		QTY REQ'D
YNG	TD	Basic		1
		Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	1	
		Other	–	
		Total Displays		3

FY 86	REPLACE	R/W 32

APPLETON WI (ATW)

AEA



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EXISTING

NONE

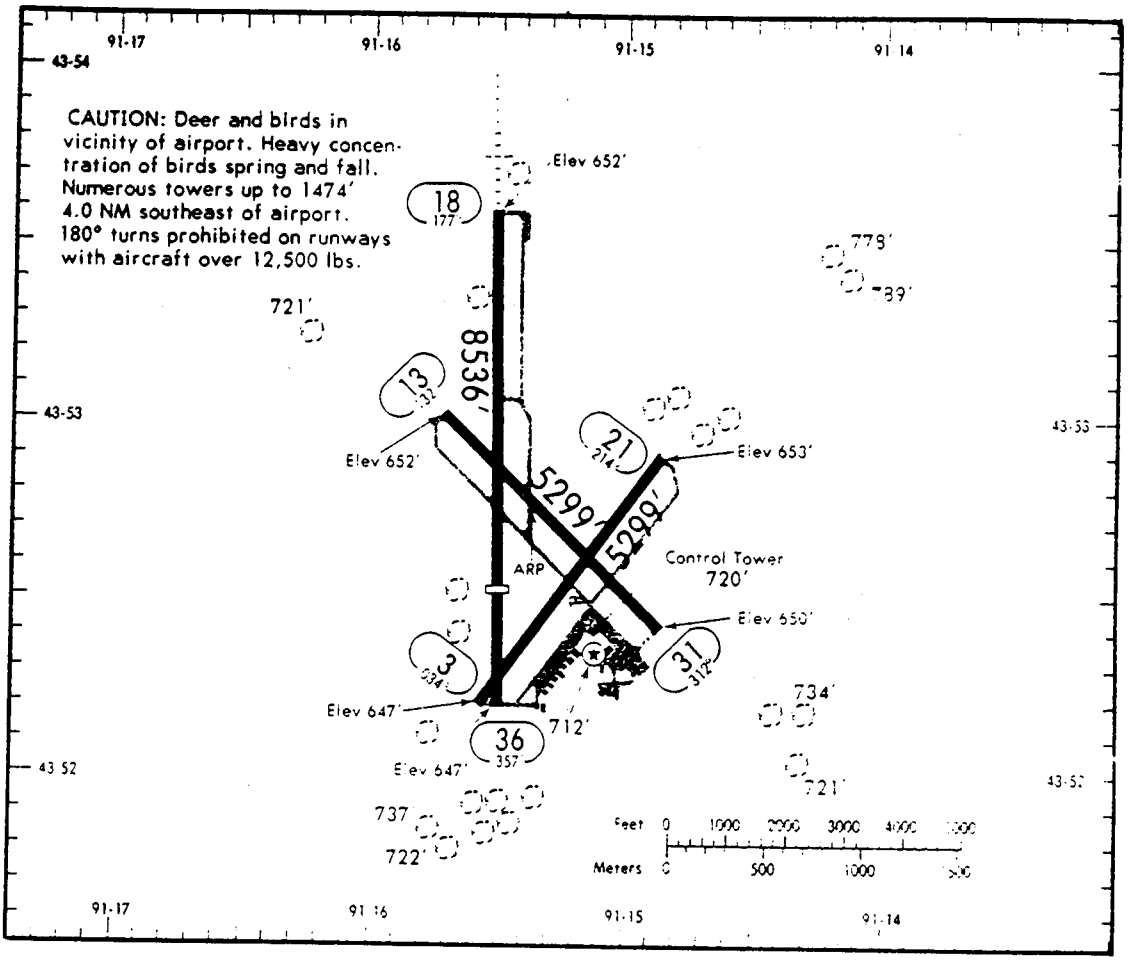
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	–	
Other	–	
Total Displays		1

FY 88	ESTABLISH	R/W 03

LA CROSSE WI (LSE)

AGL



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EXISTING

NONE

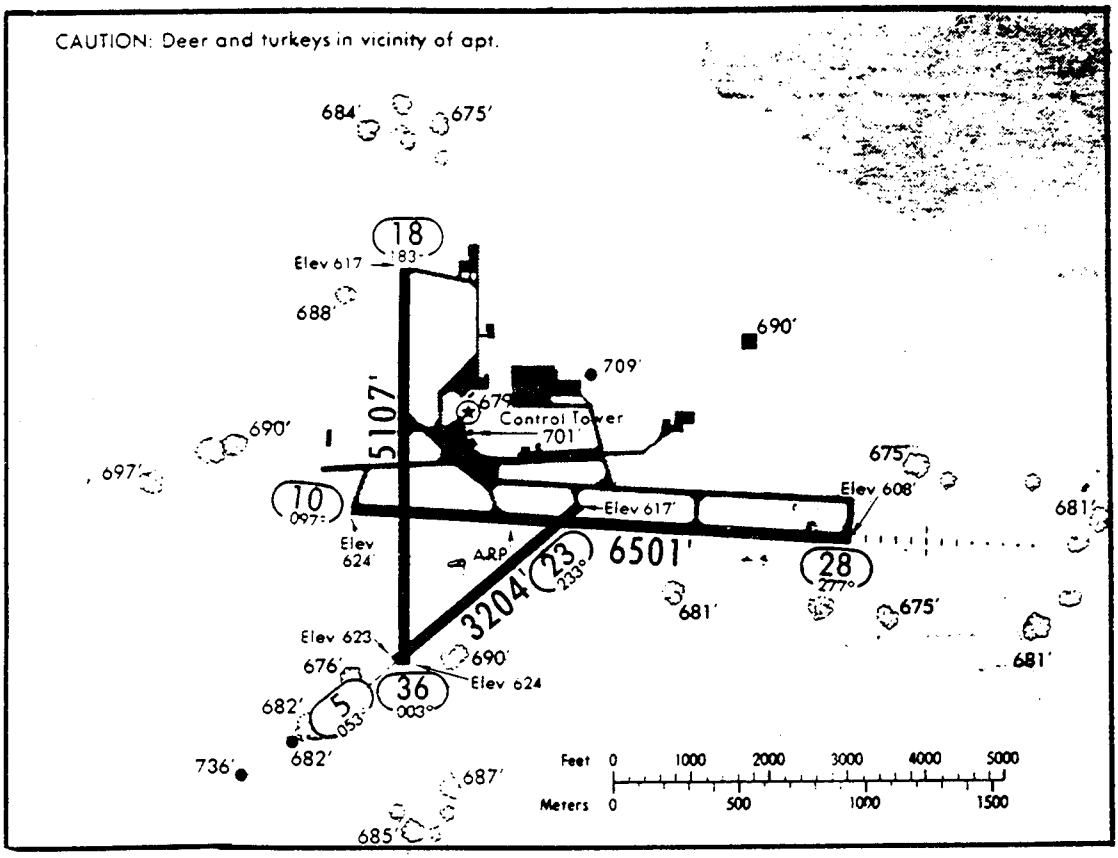
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	–	
Other	–	
Total Displays		1

FY 88	ESTABLISH	R/W 18

TRAVERSE CITY MI (TVC)

AGL



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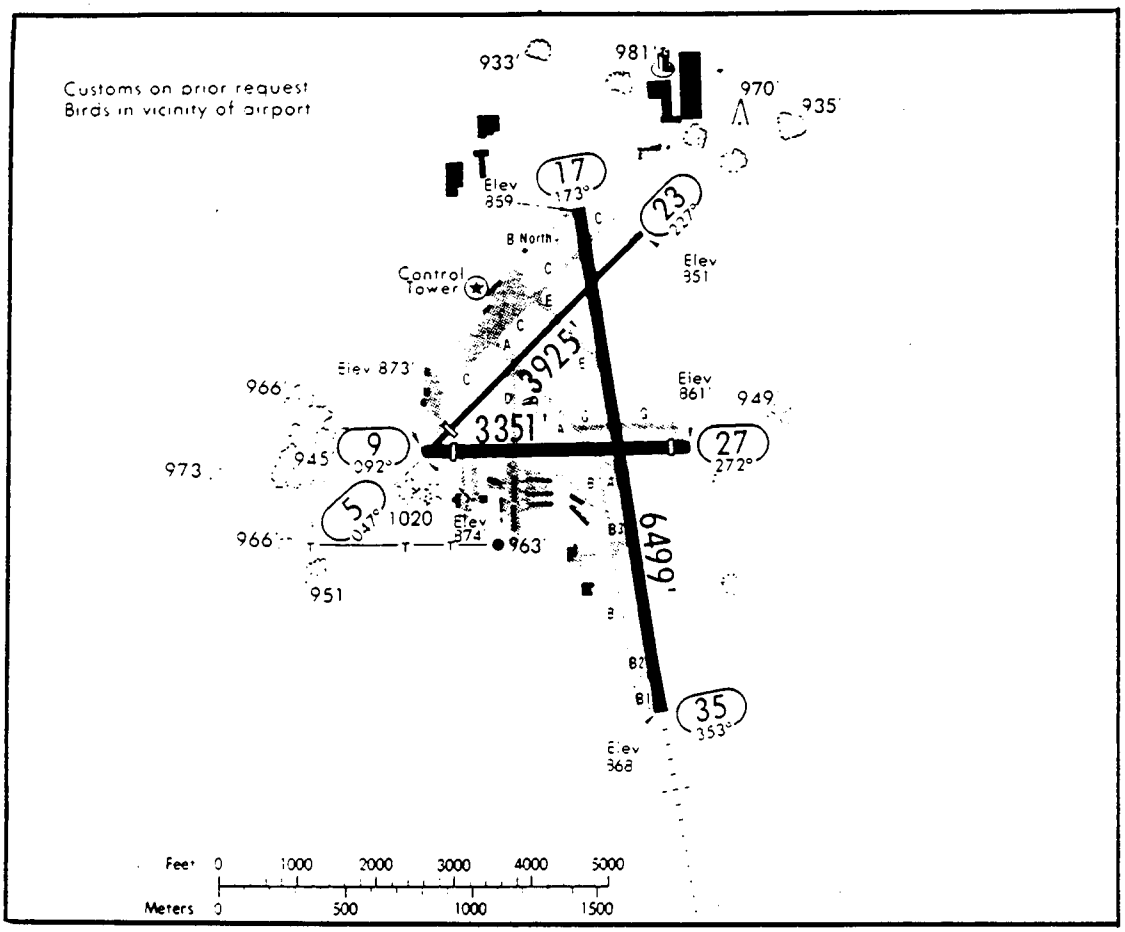
EXISTING	NEW GENERATION	
NONE	System Elements	QTY REQ'D
	Basic	1
	Sensor Packages	–
	RLIM	–
	Displays	
	ATCT 1	
	TRACON –	
	NWS –	
	Other –	
	Total Displays	1

FY 88	ESTABLISH	R/W 28

KALAMAZOO MI (AZO)

AGL



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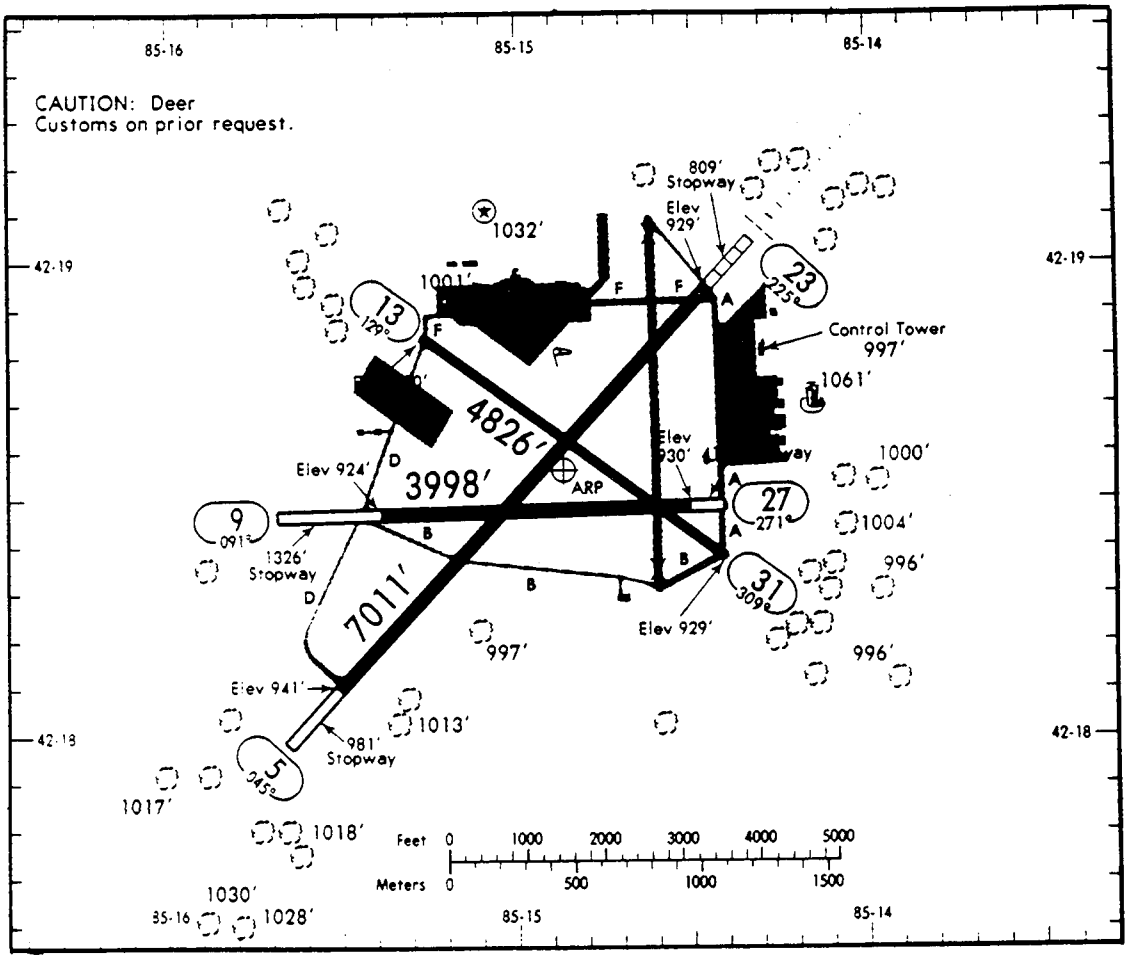
	EXISTING	NEW GENERATION		
35	347AE	System Elements		QTY REQ'D
AZO	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 35

BATTLE CREEK MI (BTL)

AGL



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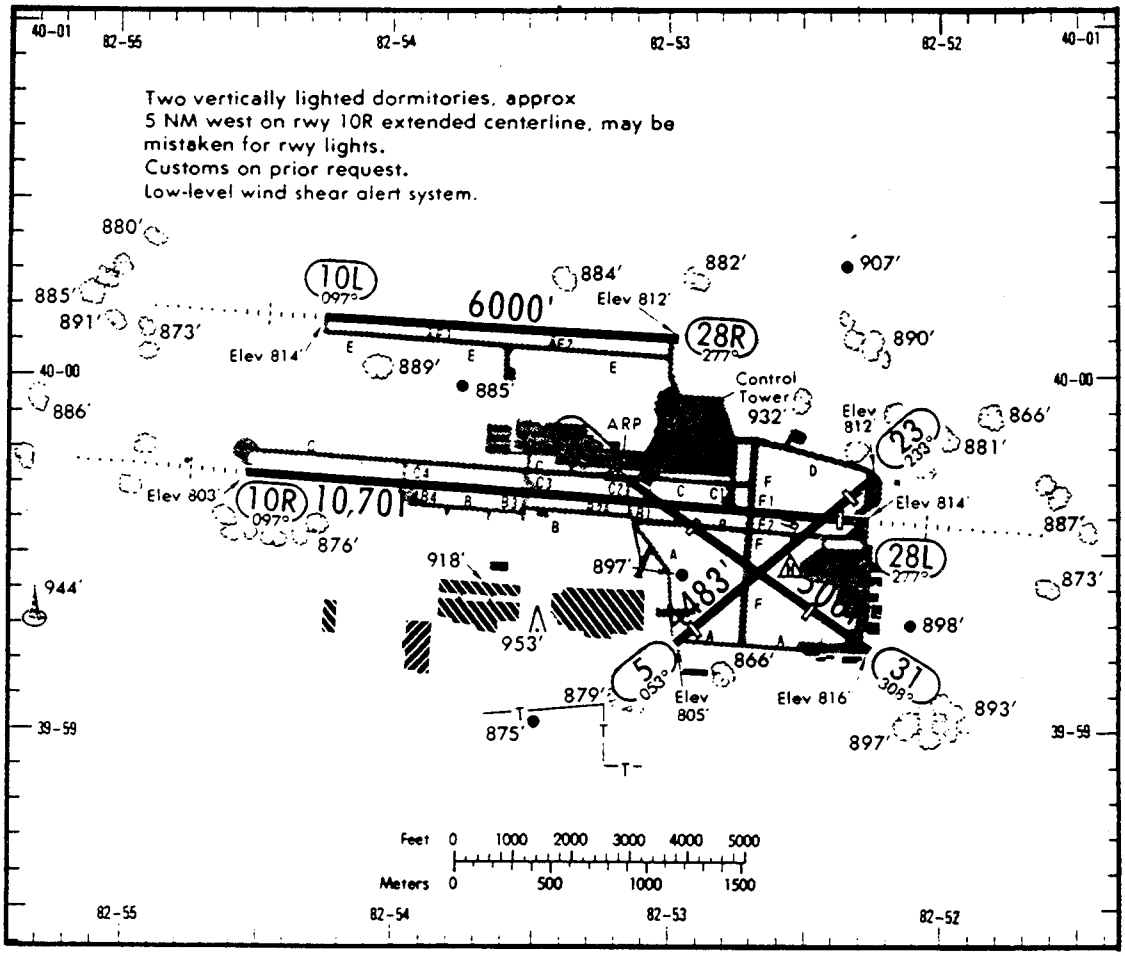
	EXISTING	NEW GENERATION		QTY REQ'D
23	347AE	System Elements		QTY REQ'D
BTL	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		1

FY 93	REPLACE	R/W 23

COLUMBUS OH (CMH)

AGL



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	EXISTING
10L	347AE
CBP	TD
28L	347AE
CMH	TD

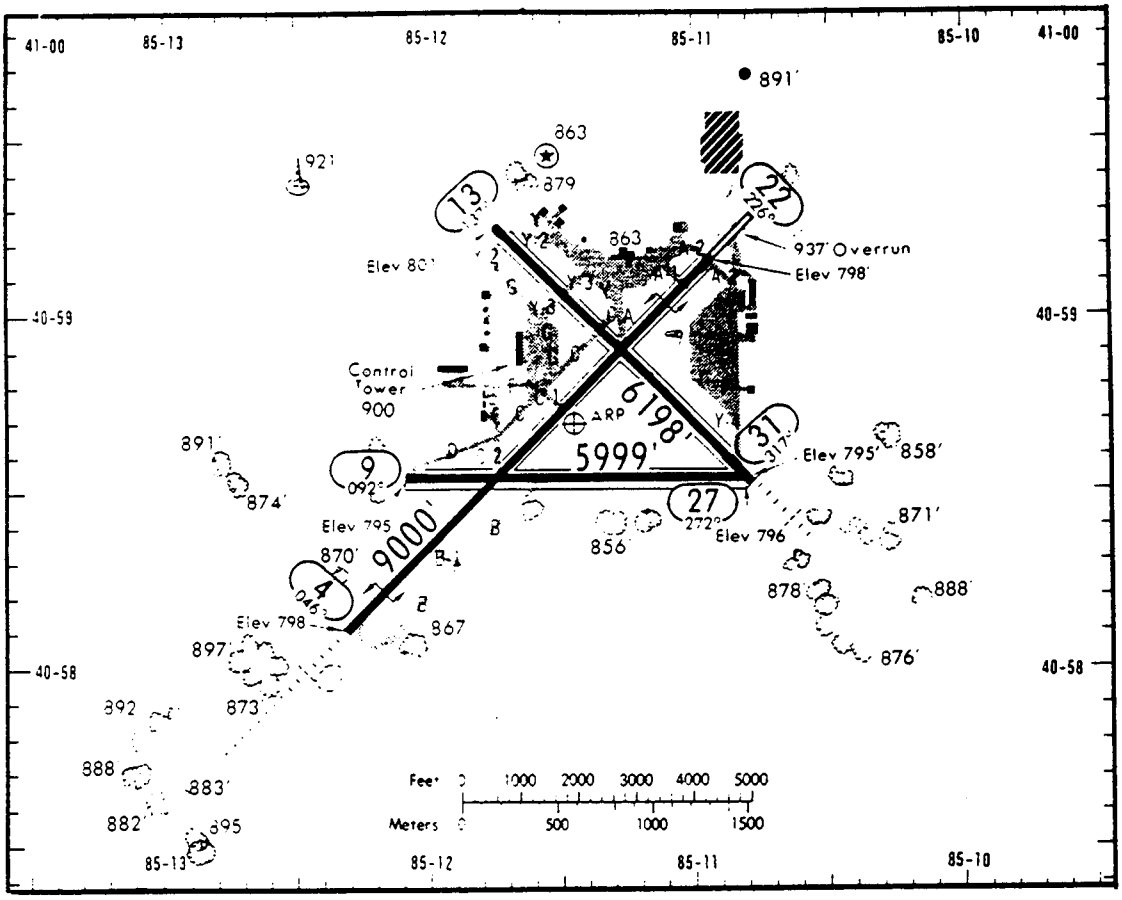
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		1
Displays		
ATCT	2	
TRACON	2	
NWS	–	
Other	–	
Total Displays		4

FY 93	REPLACE	R/W 10L, 28L

FORT WAYNE IN (FWA)

AGL



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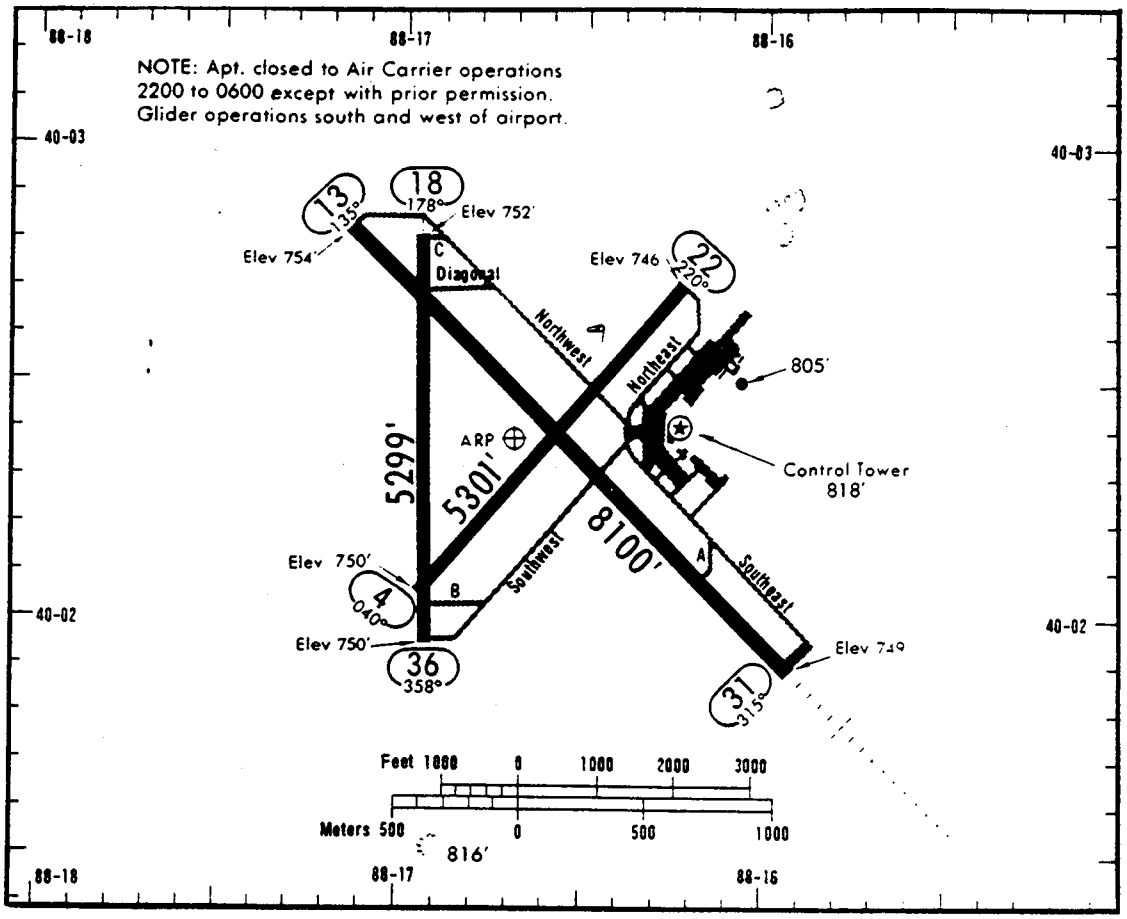
	EXISTING	NEW GENERATION		QTY REQ'D
04	347AE	System Elements		
CHN	TD	Basic		1
		Sensor Packages		1
31	347AE	RLIM		1
FWA	TD	Displays		
		ATCT	1	
		TRACON	2	
		NWS	–	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 04, 31

CHAMPAIGN IL (CMI)

AGL



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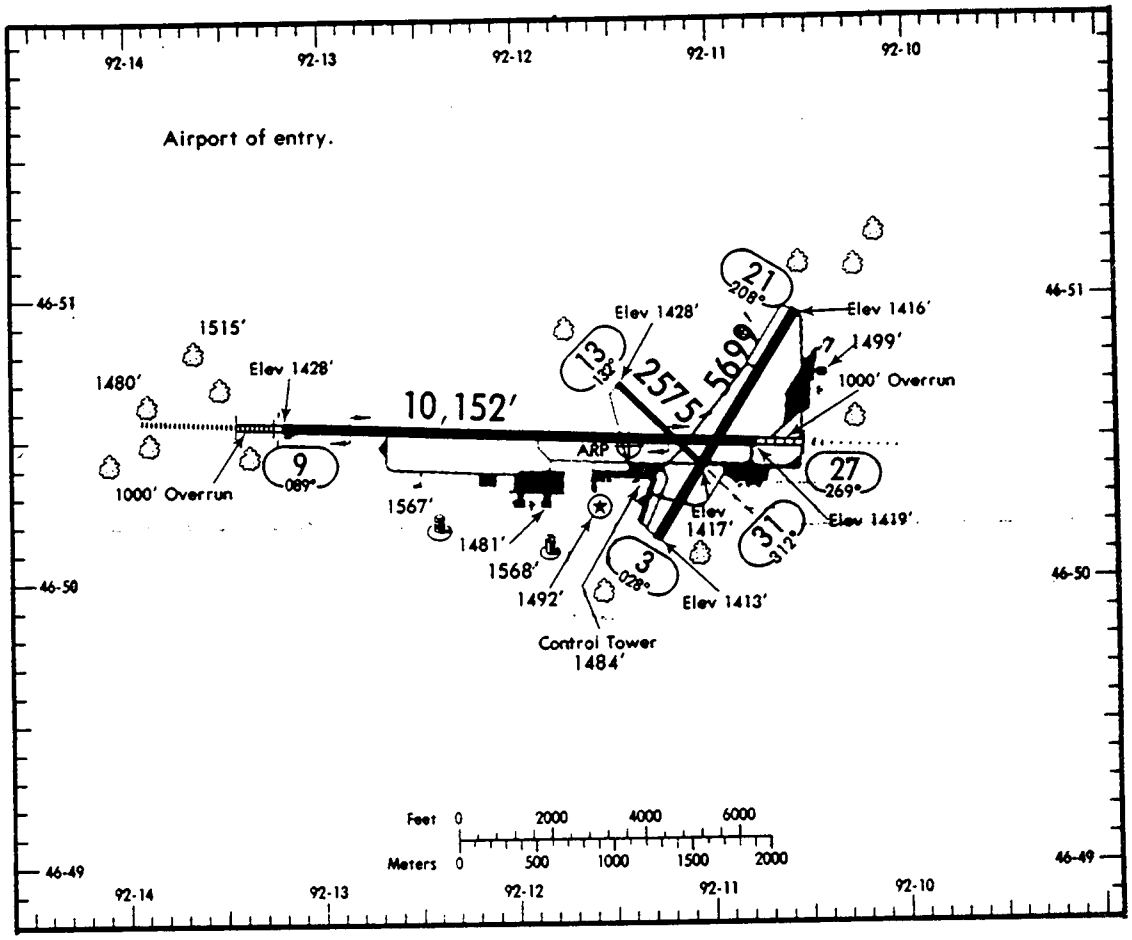
	EXISTING	NEW GENERATION		
31	347AE	System Elements		QTY REQ'D
CMI	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 31

DULUTH MN (DLH)

AGL



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	EXISTING
09	347AE
DLH	TD
27	347AE
JUD	TD

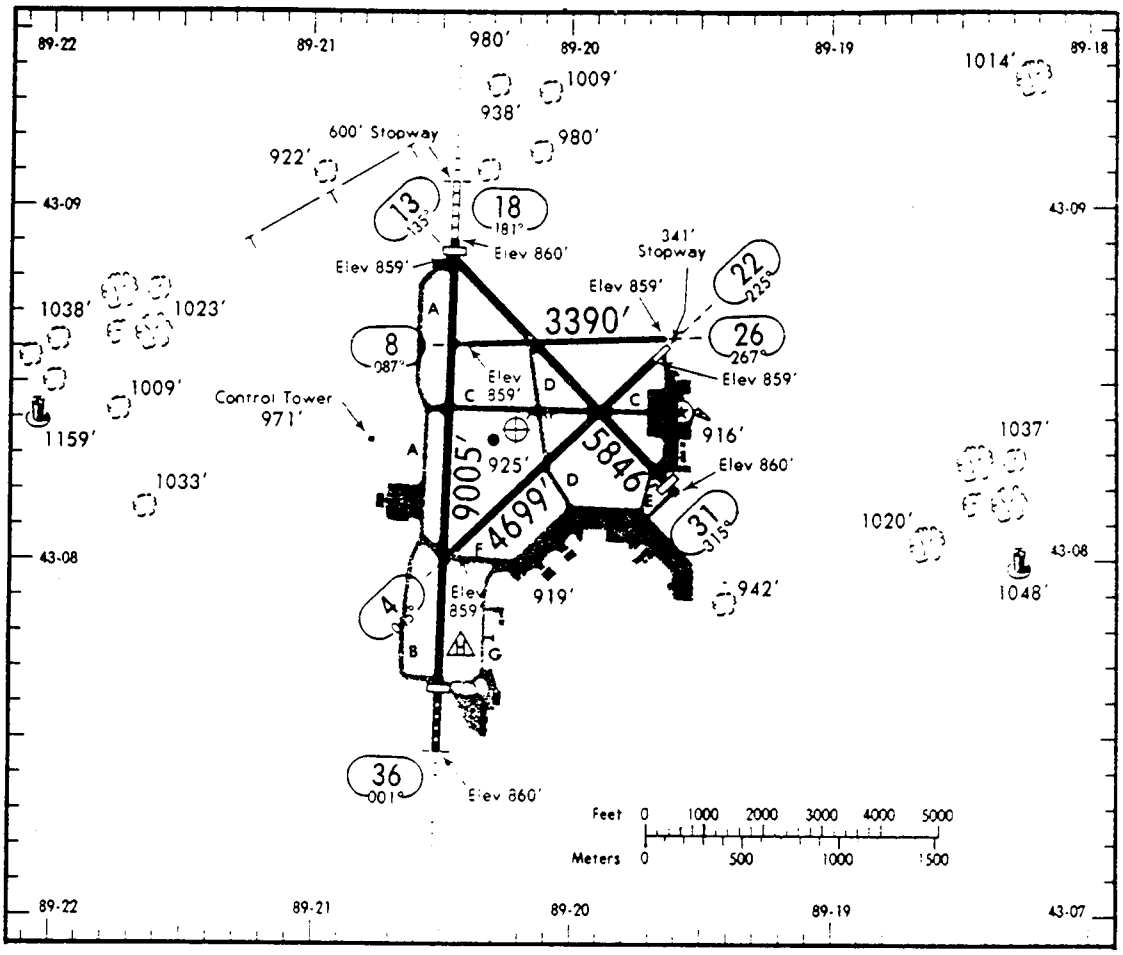
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	–	
Total Displays		5

FY 93	REPLACE	R/W 09/27

MADISON WI (MSN)

AGL



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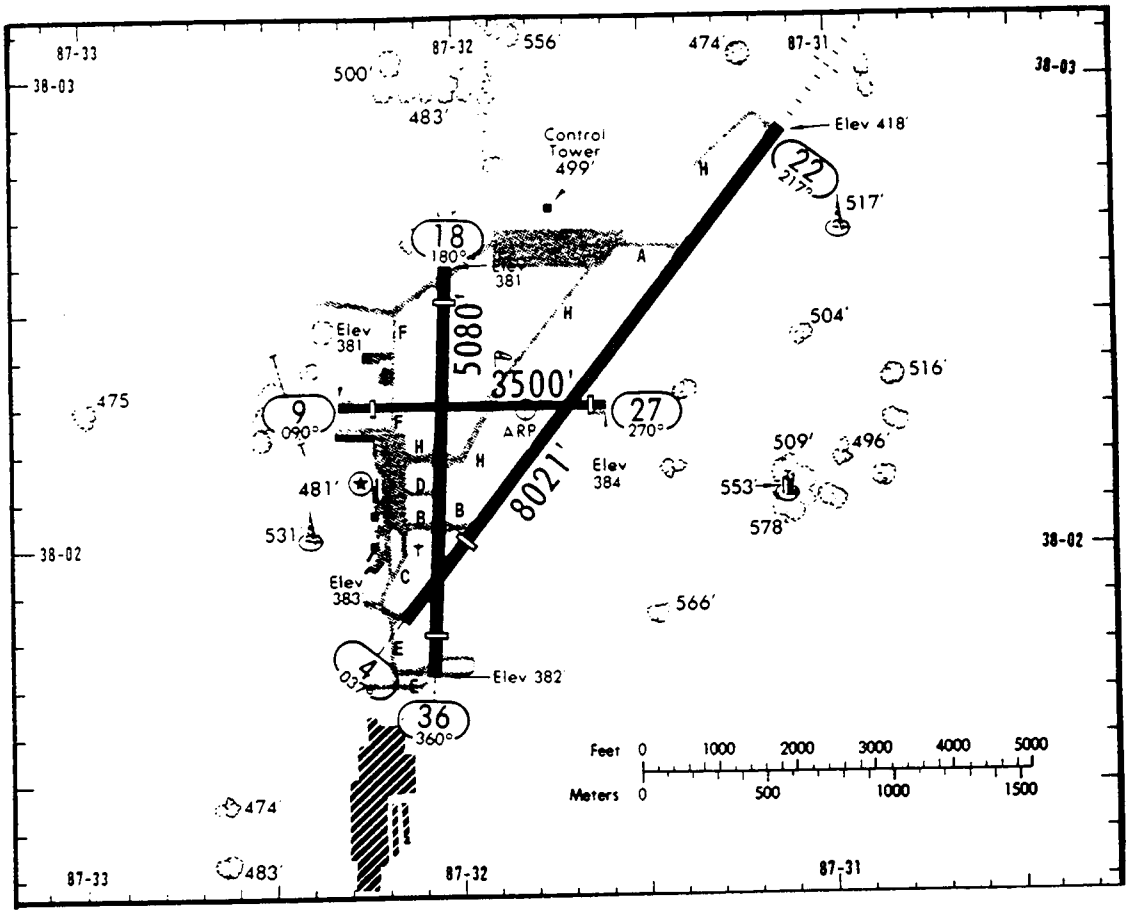
	EXISTING	NEW GENERATION		
18	347AE	System Elements		QTY REQ'D
DSZ	TD	Basic		1
		Sensor Packages		1
36	347AE	RLIM		–
		Displays		
MSN	TD	ATCT	1	
		TRACON	1	
		NWS	1	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 18/36

AGL

EVANSVILLE IN (EVV)



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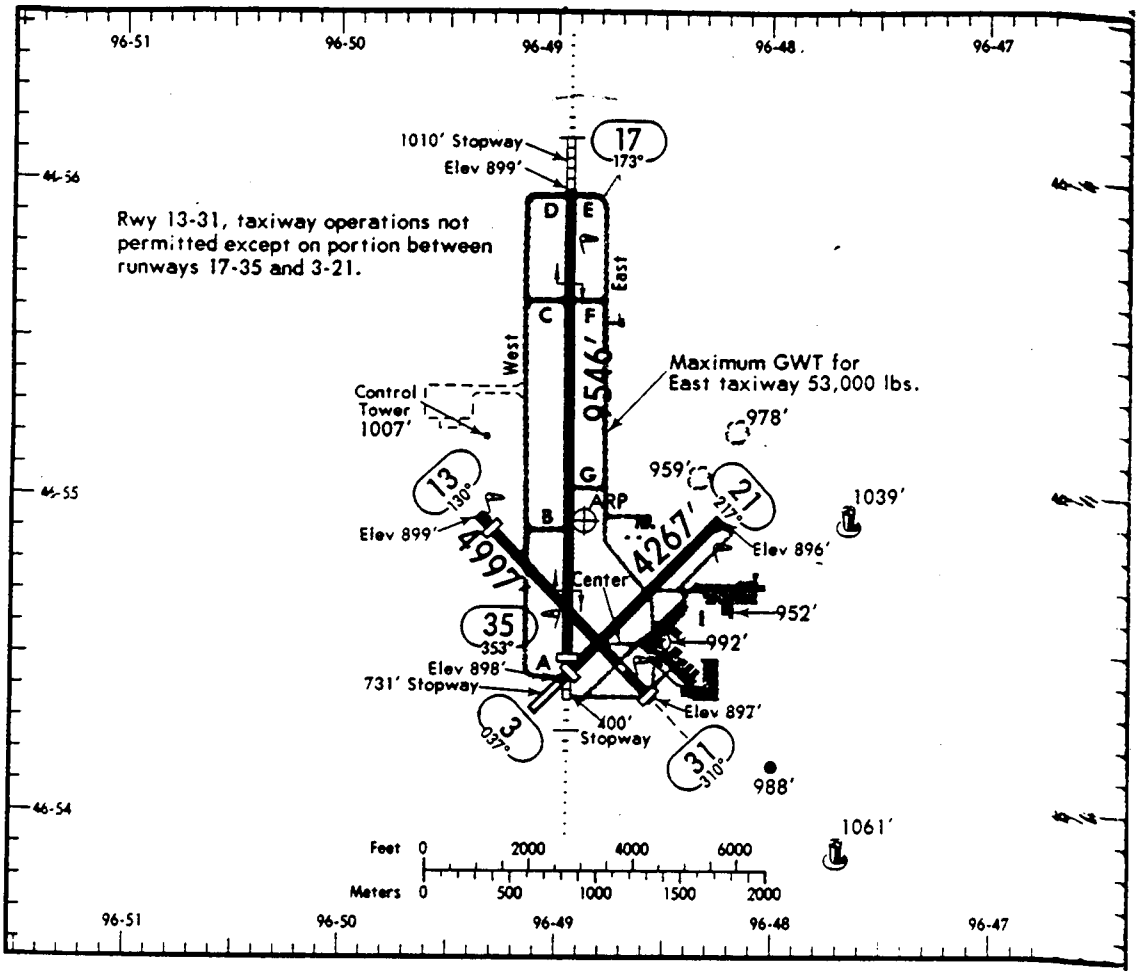
	EXISTING	NEW GENERATION
22	347AE	
EVV	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	1	
NWS	–	
Other	–	
Total Displays		2

FY 93	REPLACE	R/W 22

FARGO ND (FAR)



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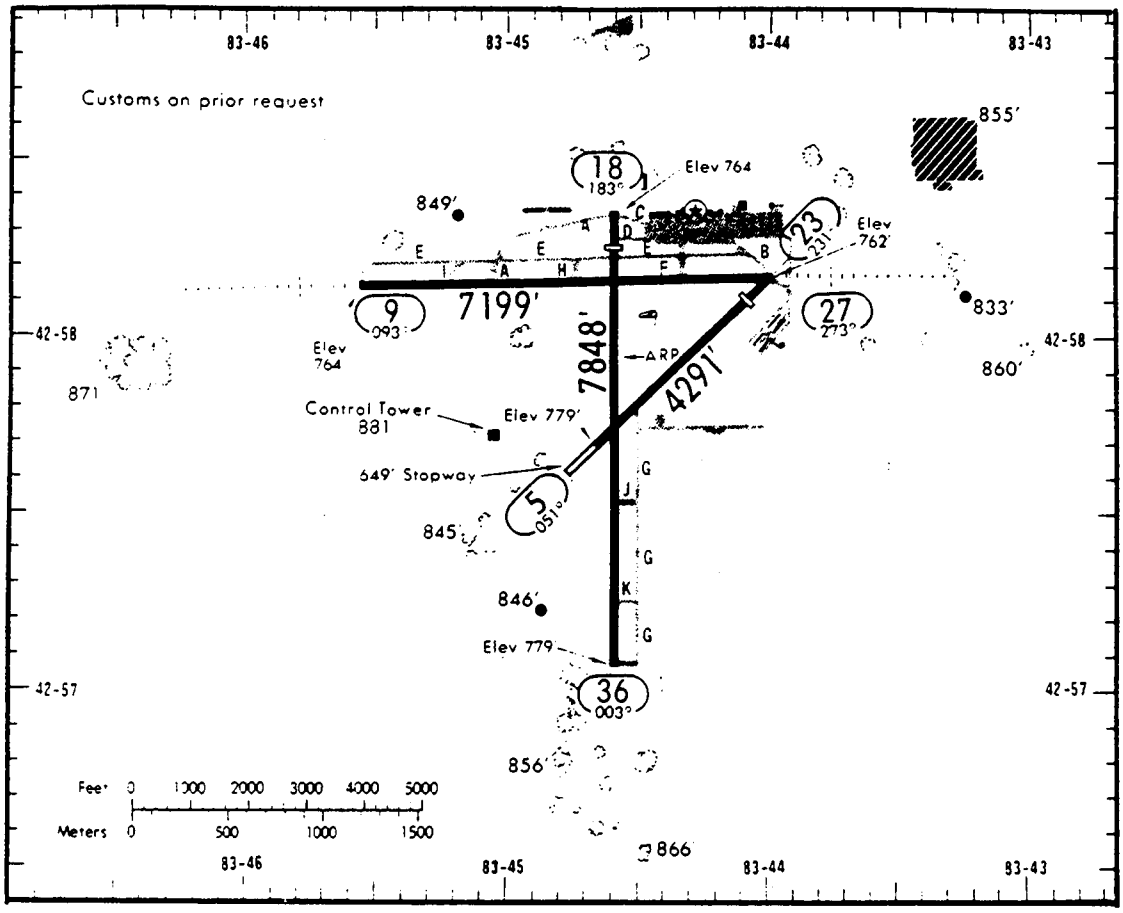
	EXISTING	NEW GENERATION
35	347AE	
FAR	TD	
17	347AE	
FARA	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	1	
Other	–	
Total Displays		3

FY 93	REPLACE	R/W 17/35

FLINT MI (FNT)

AGL



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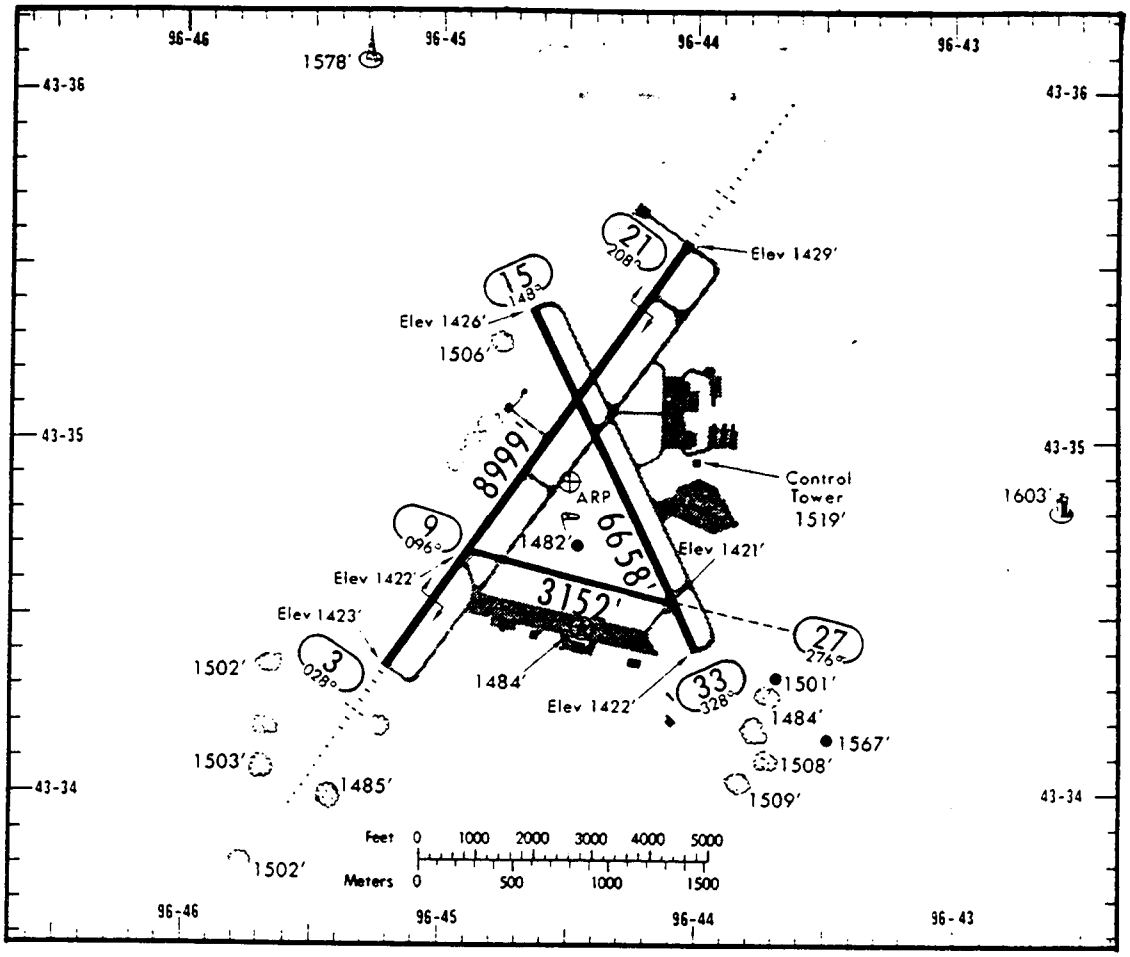
	EXISTING	NEW GENERATION		QTY REQ'D
09	347AE	System Elements		QTY REQ'D
FNT	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	–	
		Other	1	
		Total Displays		4

FY 93	REPLACE	R/W 09

SIOUX FALLS SD (FSD)

AGL



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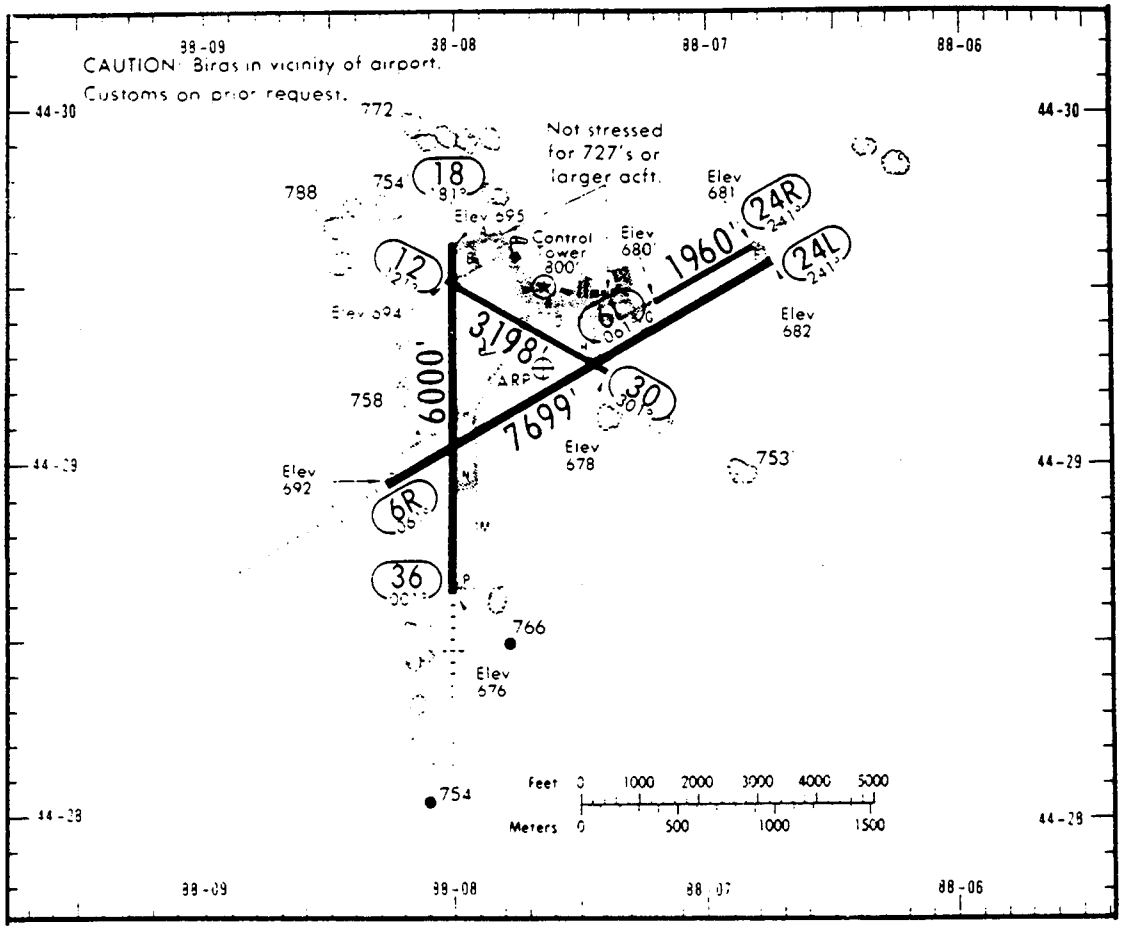
EXISTING		NEW GENERATION		
21	34712	System Elements		QTY REQ'D
FSDA	TD	Basic		1
		Sensor Packages		1
03	34716	RLIM		–
FSD	RO	Displays		
		ATCT	2	
		TRACON	–	
		NWS	2	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 03/21

GREEN BAY WI (GRB)

AGL



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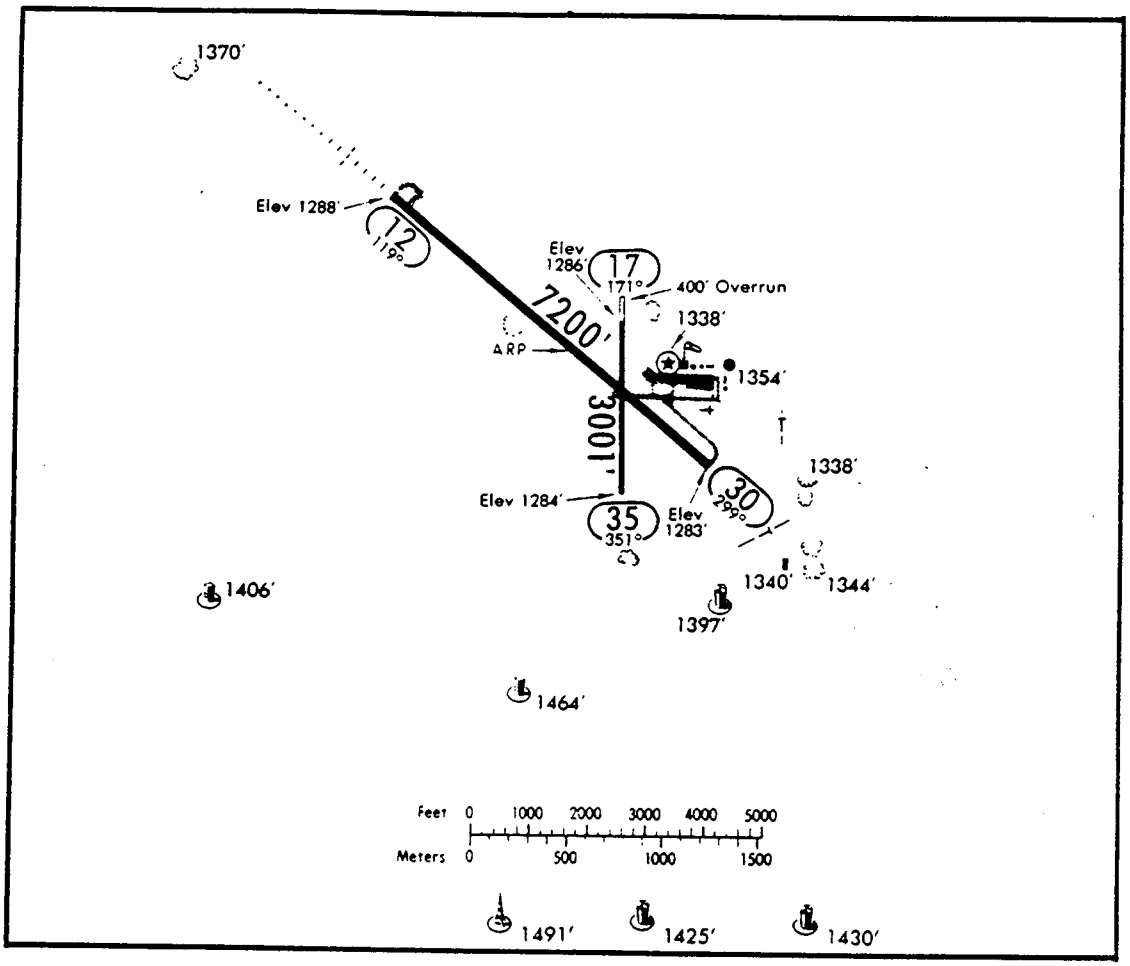
	EXISTING	NEW GENERATION		
06R	347AE	System Elements		QTY REQ'D
GRB	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	1	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 06R

HURON S.D. (HON)

AGL



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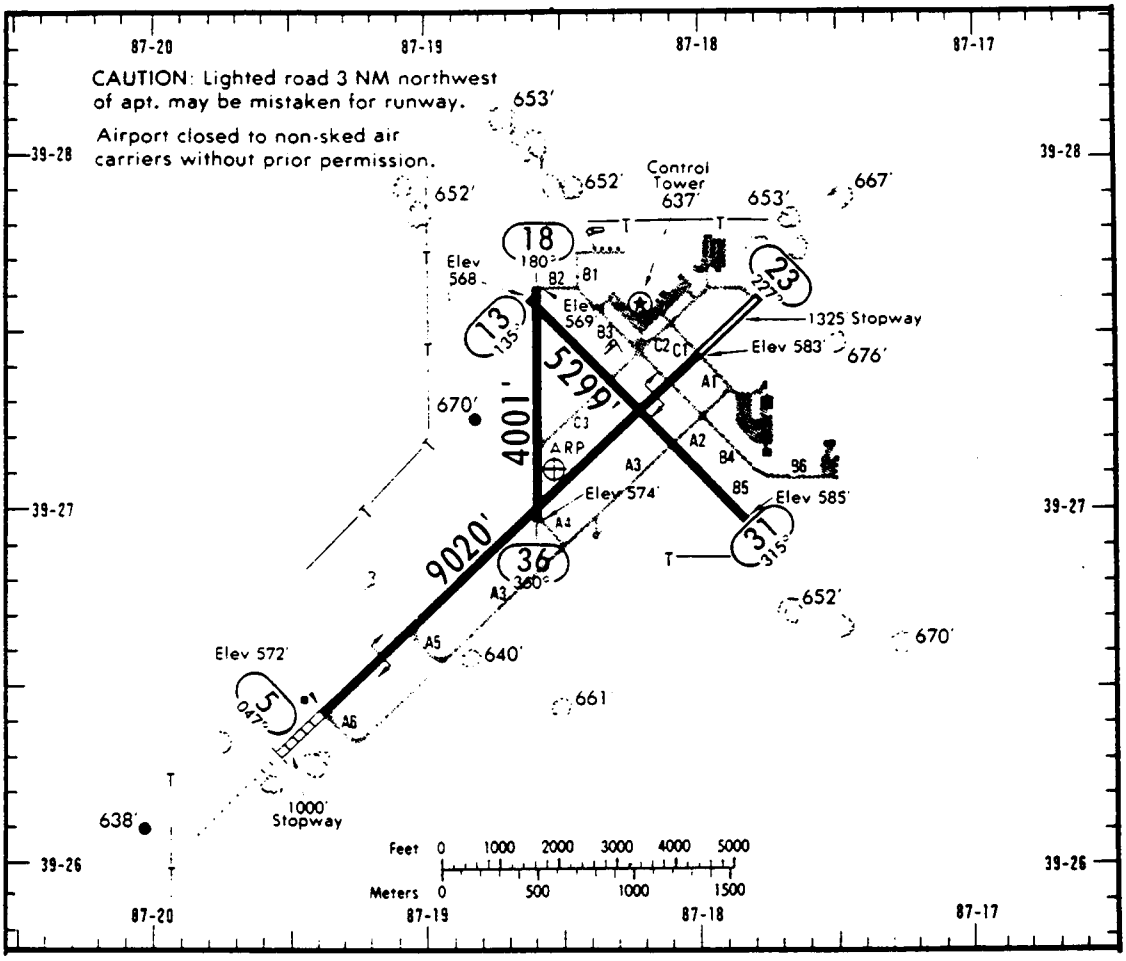
EXISTING		NEW GENERATION	
12	34711	System Elements	QTY REQ'D
HON	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT –	
		TRACON –	
		NWS 1	
		Other 1	
		Total Displays	2

FY 93	REPLACE	R/W 12

TERRE HAUTE IN (HUF)

AGL



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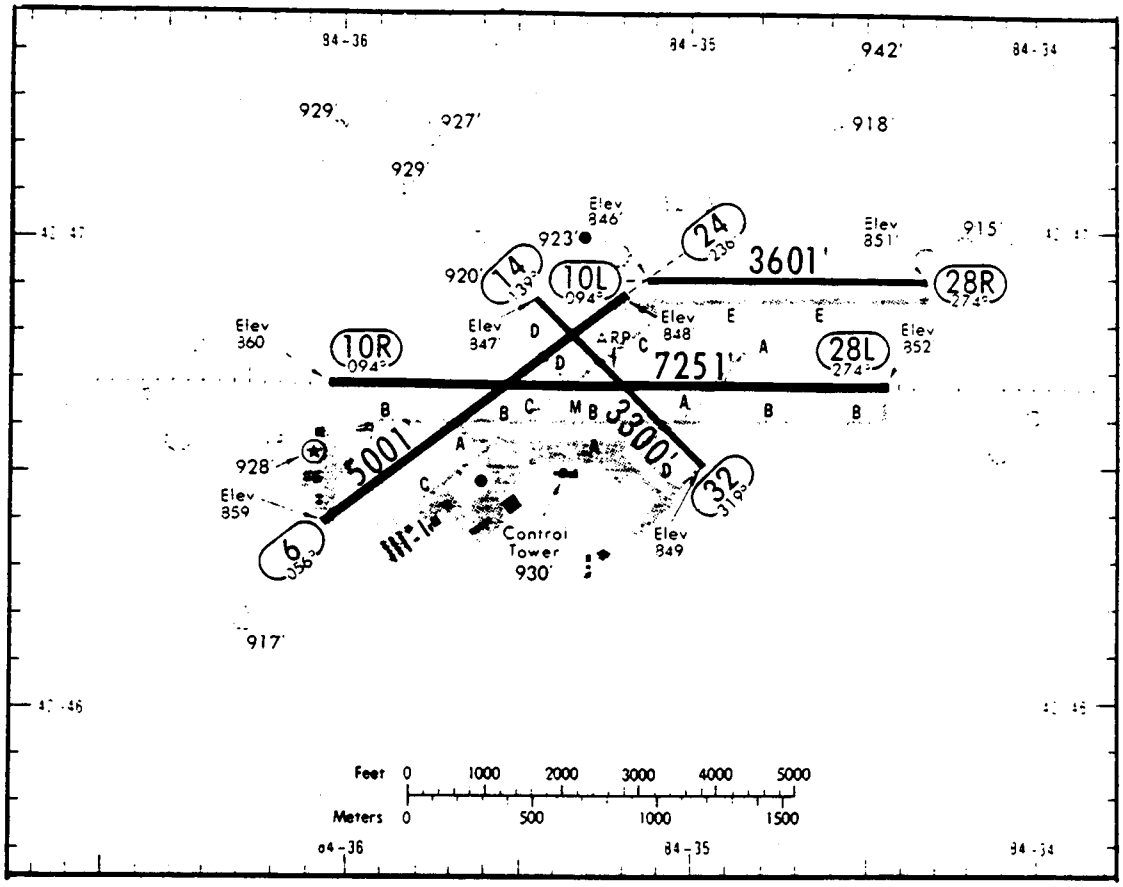
	EXISTING	NEW GENERATION		
05	347AE	System Elements		QTY REQ'D
HUF	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 05

LANSING MI (LAN)

AGL



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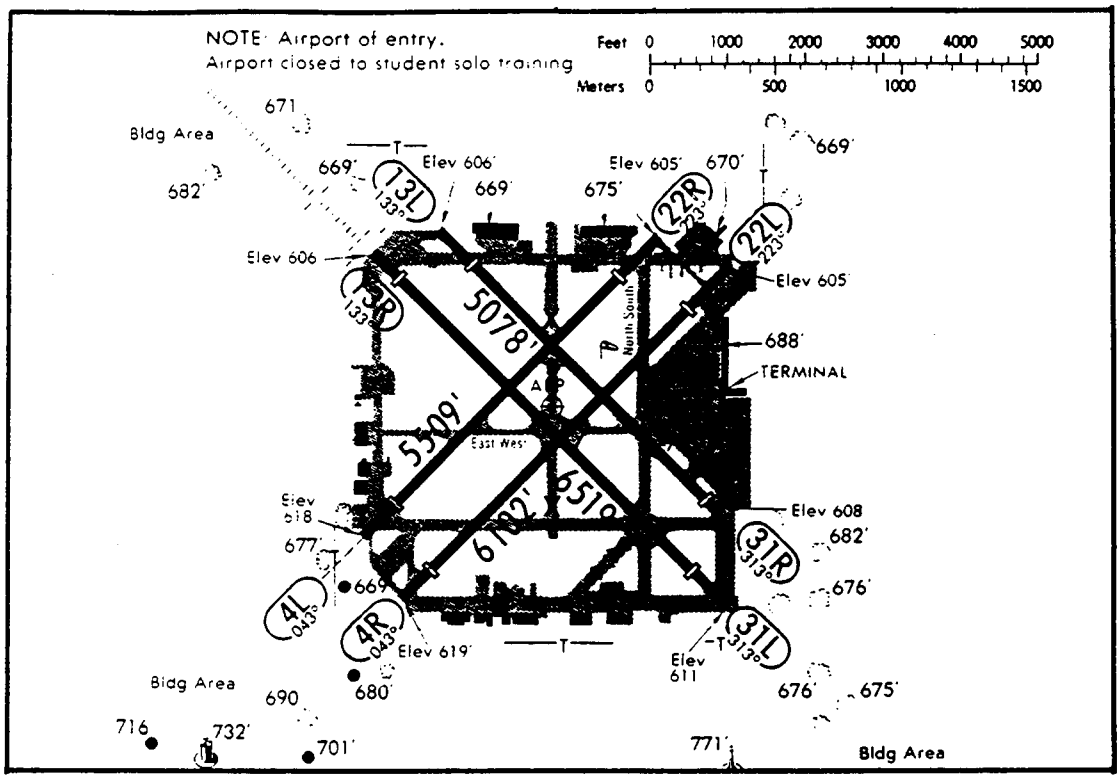
	EXISTING	NEW GENERATION
28L	347AE	
LAN	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	–	
Total Displays		4

FY 93	REPLACE	R/W 28L

CHICAGO IL (MDW)

AGL



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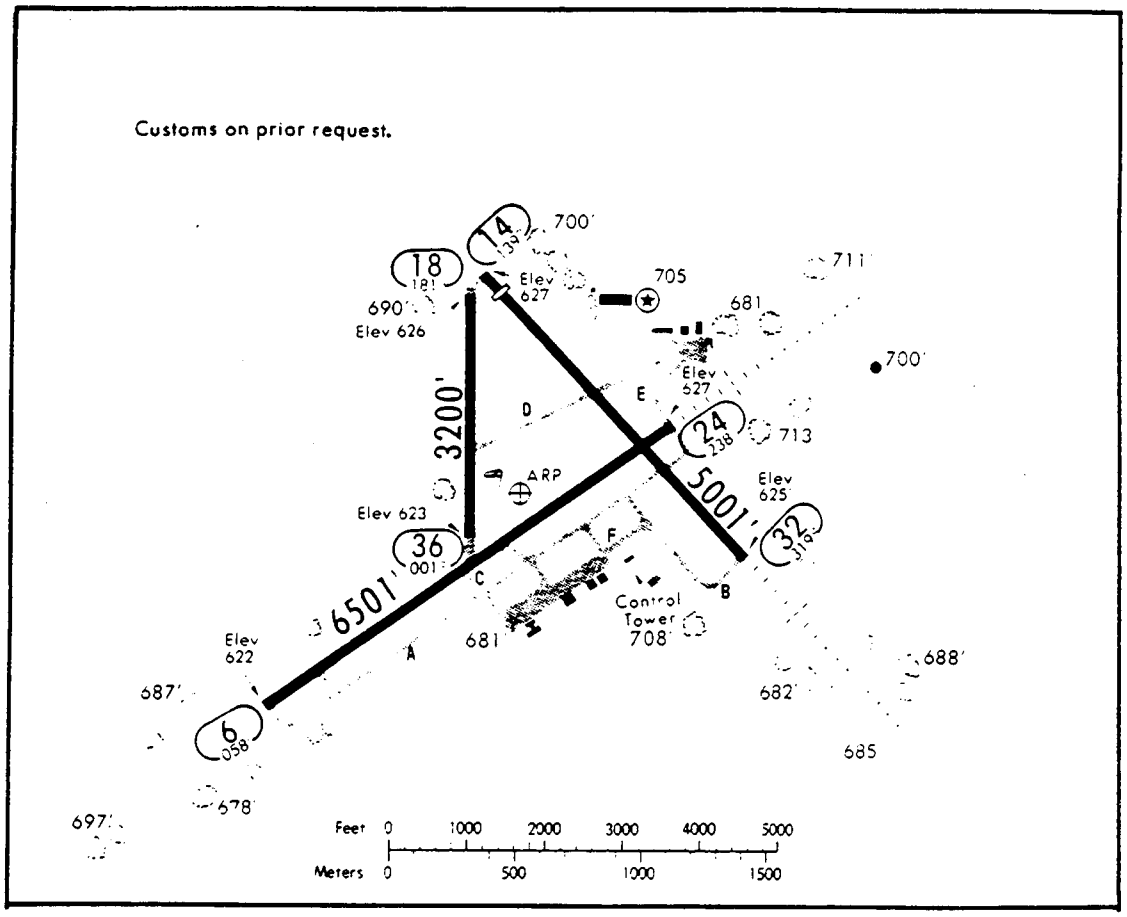
	EXISTING	NEW GENERATION		
13R	347AE	System Elements		QTY REQ'D
MDW	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 13R

MUSKEGON MI (MKG)

AGL



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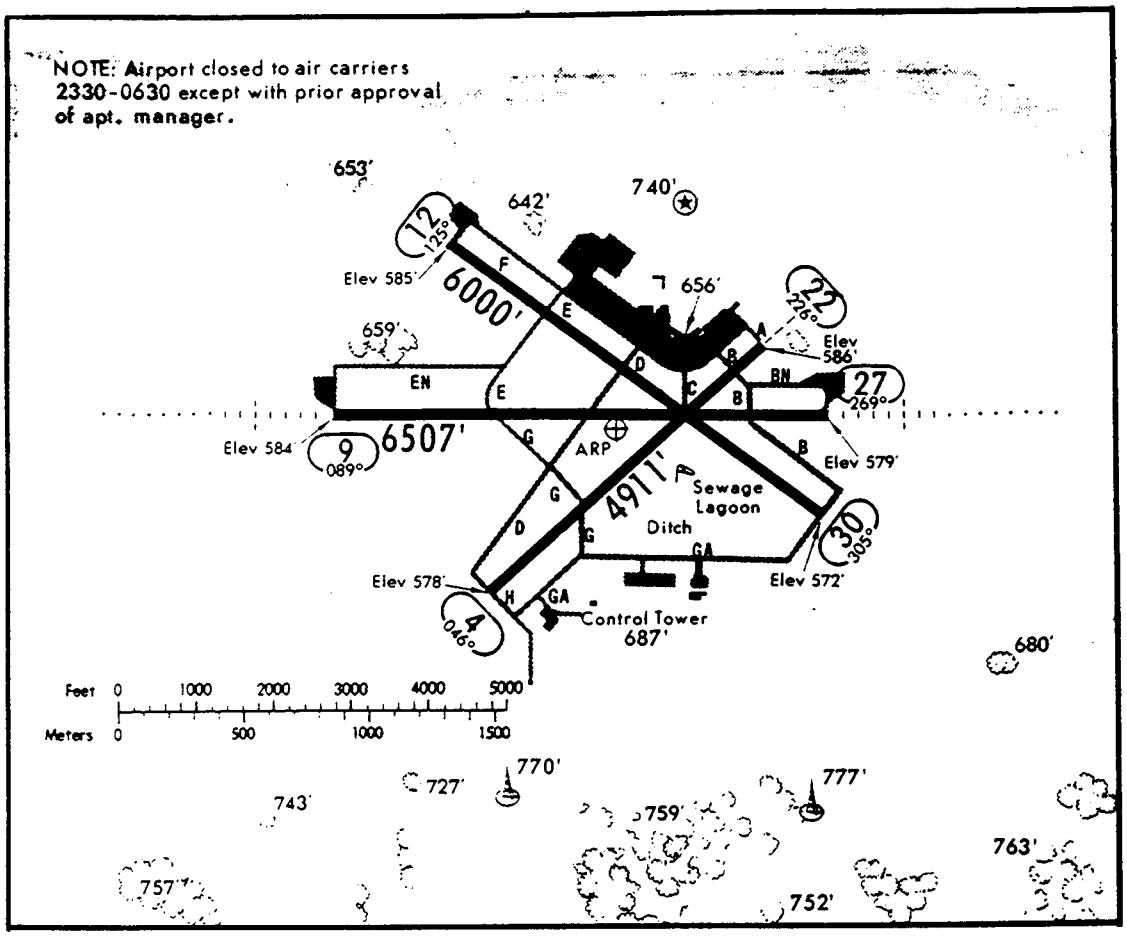
	EXISTING	NEW GENERATION		
32	347AE	System Elements		QTY REQ'D
MKG	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	1	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 32

MOLINE IL (MLI)

AGL



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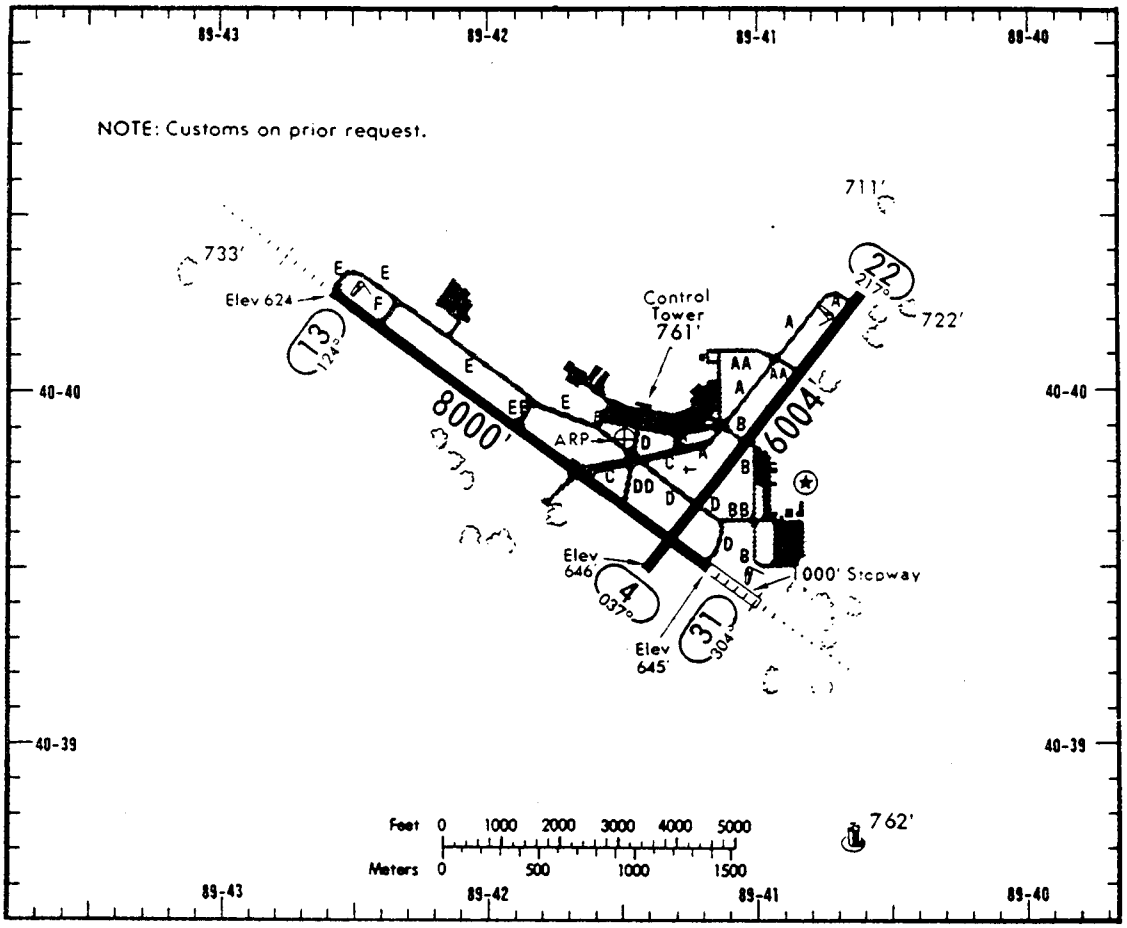
	EXISTING	NEW GENERATION		QTY REQ'D
09	347AE	System Elements		
MLI	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 09

PEORIA IL (PIA)

AGL



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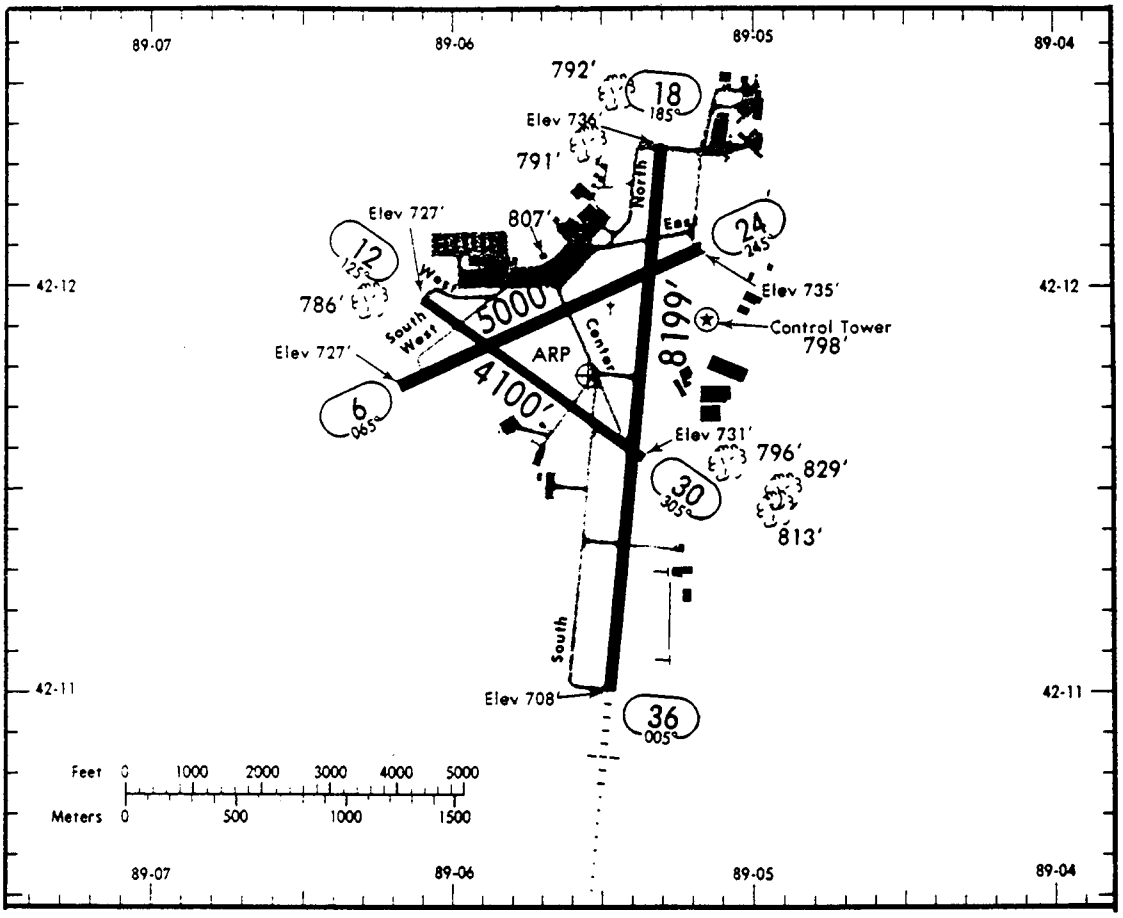
	EXISTING	NEW GENERATION		
31	347AE	System Elements		QTY REQ'D
PIA	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 31

ROCKFORD IL (RFD)

AGL



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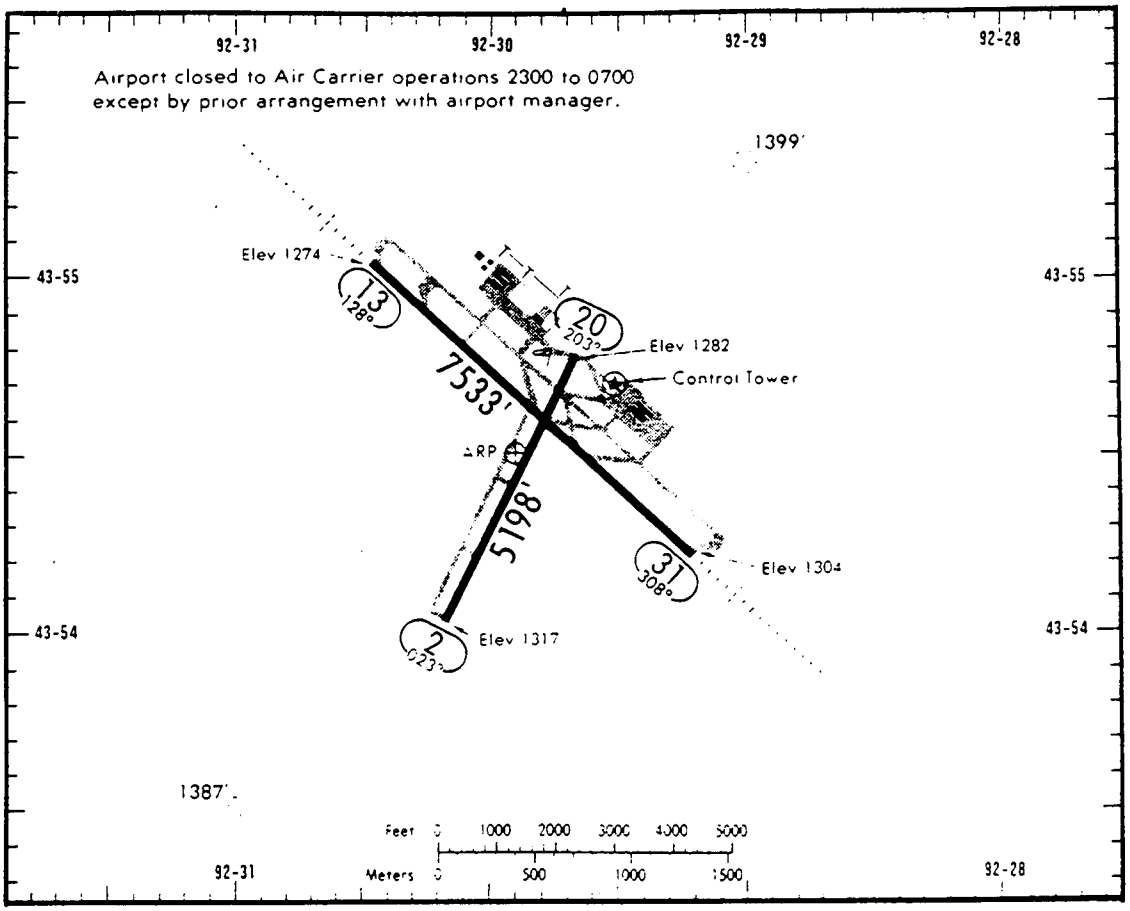
	EXISTING	NEW GENERATION		
36	347AE	System Elements		QTY REQ'D
RFD	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 36

ROCHESTER MN (RST)

AGL



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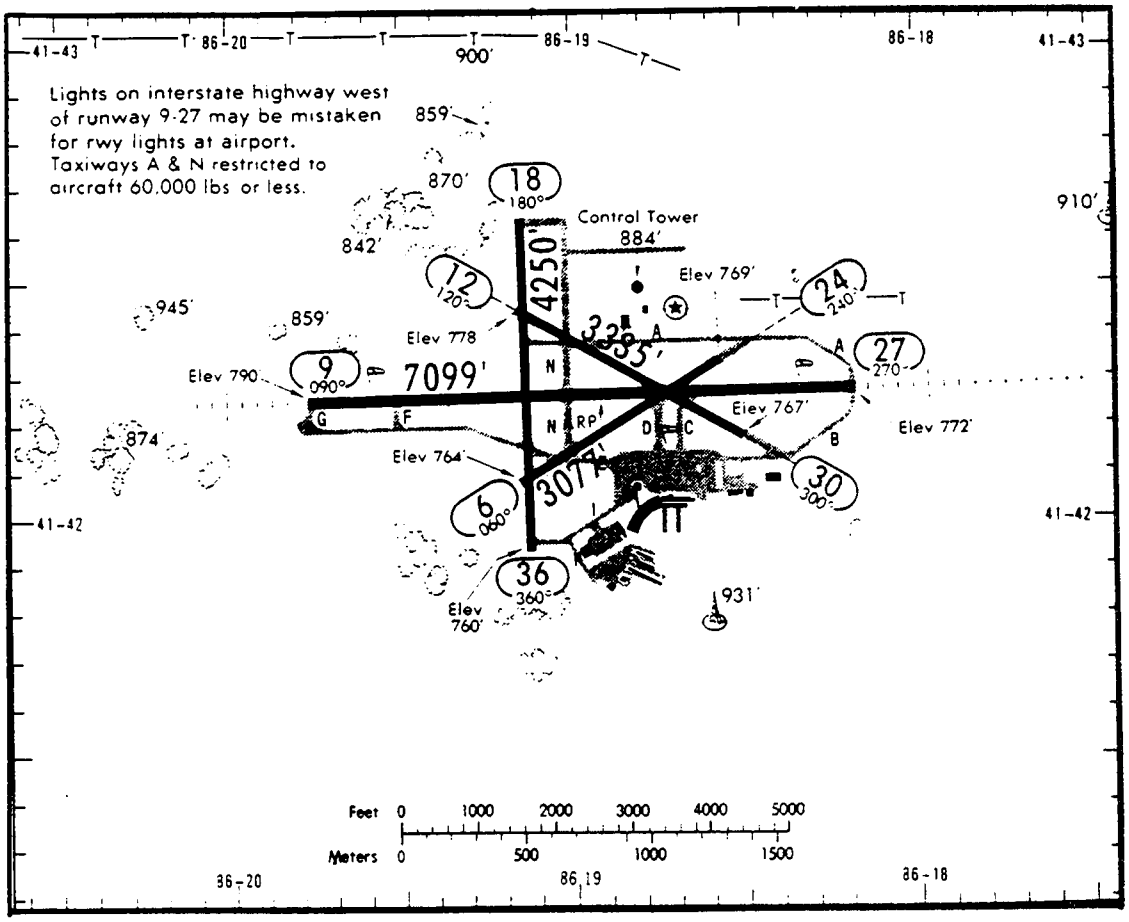
EXISTING		NEW GENERATION		
31	347AE	System Elements		QTY REQ'D
RST	TD	Basic		1
		Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 31

SOUTH BEND IN (SBN)

AGL



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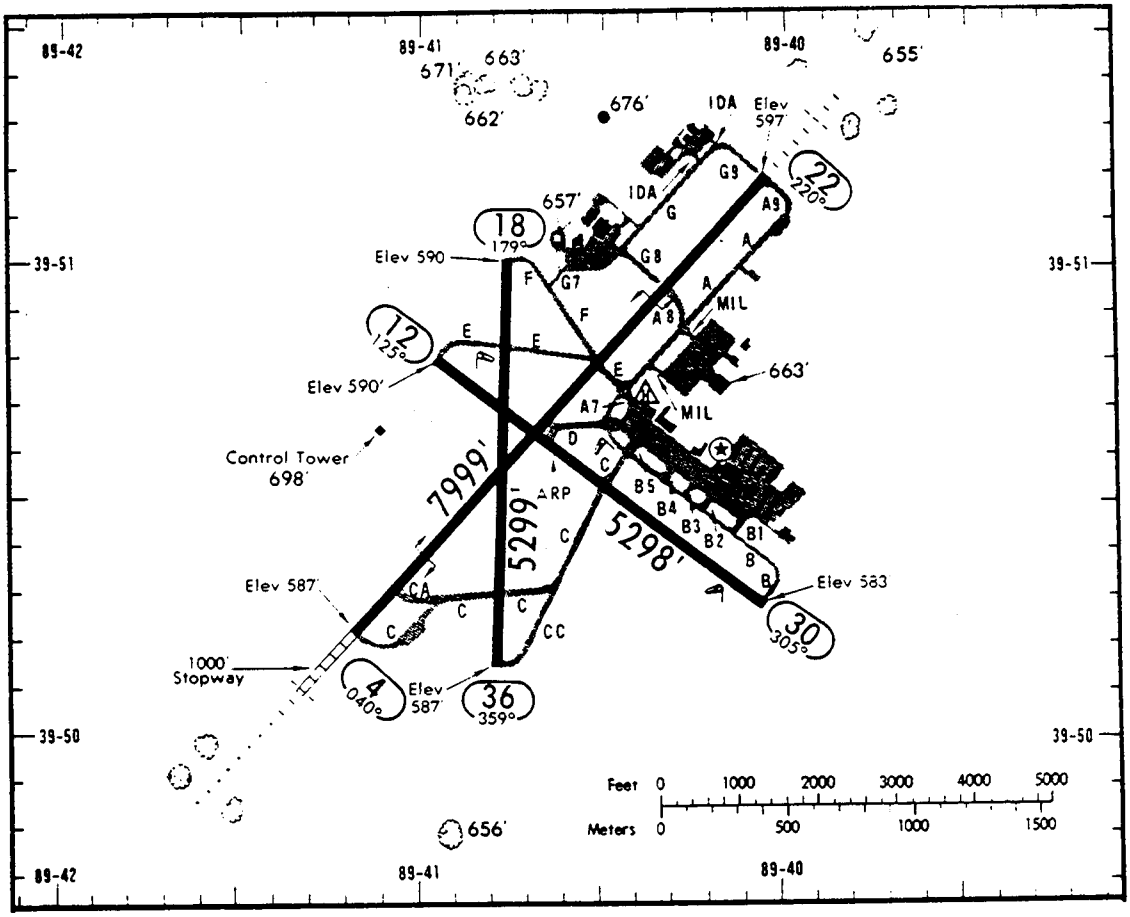
	EXISTING	NEW GENERATION		QTY REQ'D
27	347AE	System Elements		
SBN	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	4	
		NWS	1	
		Other	–	
		Total Displays		7

FY 93	REPLACE	R/W 27

SPRINGFIELD IL (SPI)

AGL



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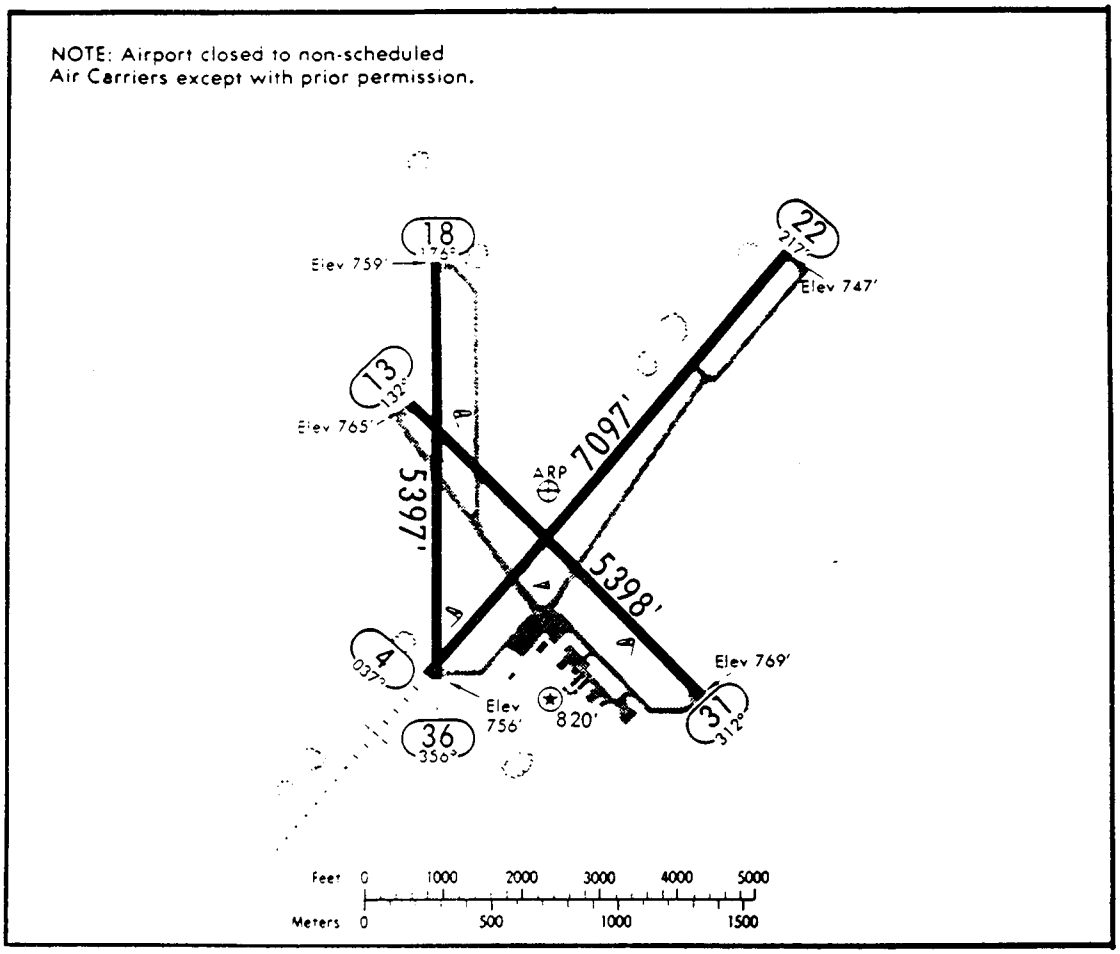
	EXISTING	NEW GENERATION		QTY REQ'D
04	347AE	System Elements		
SPI	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	–	
		Other	1	
		Total Displays		5

FY 93	REPLACE	R/W 04

QUINCY IL (UIN)

AGL



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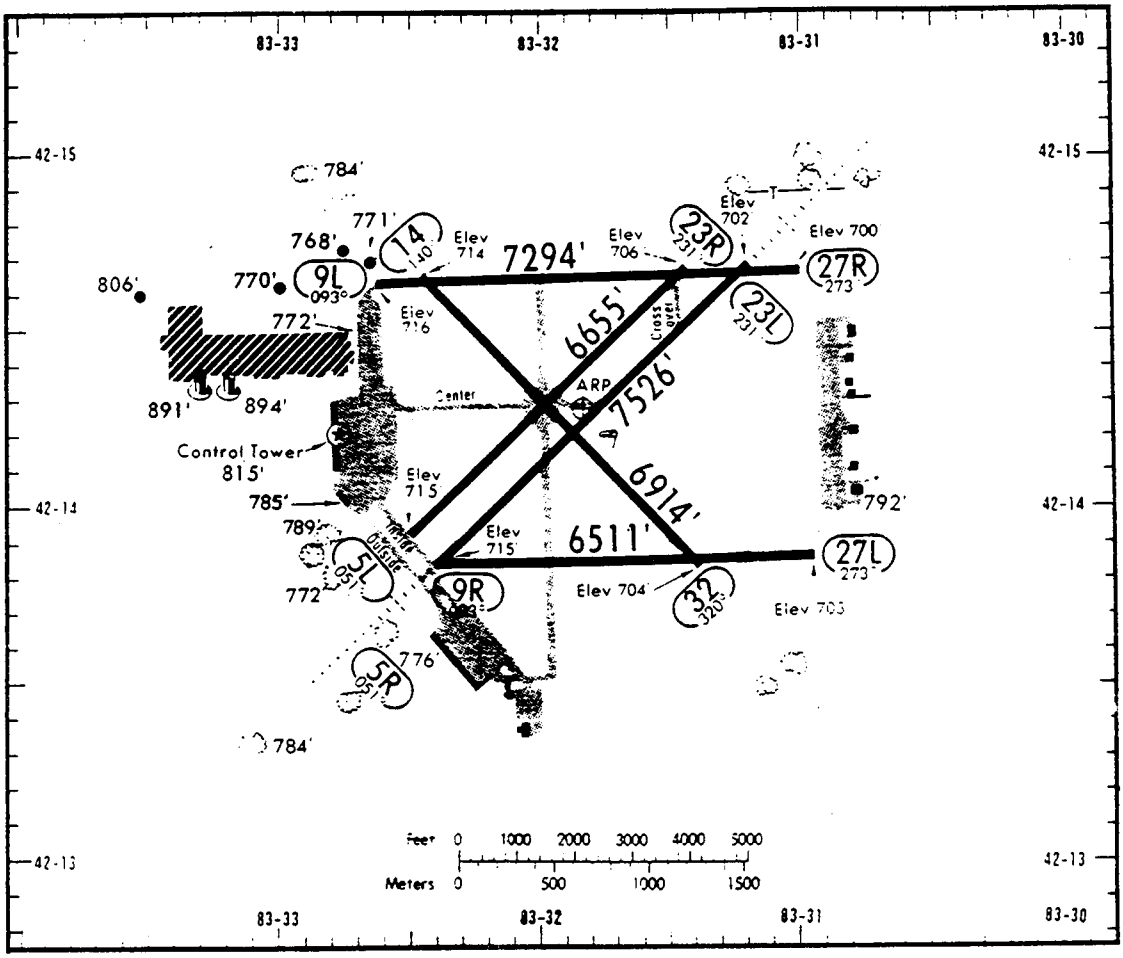
	EXISTING	NEW GENERATION		
04	34711	System Elements		QTY REQ'D
UIN	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		1

FY 93	REPLACE	R/W 04

DETROIT MI (YIP)

AGL



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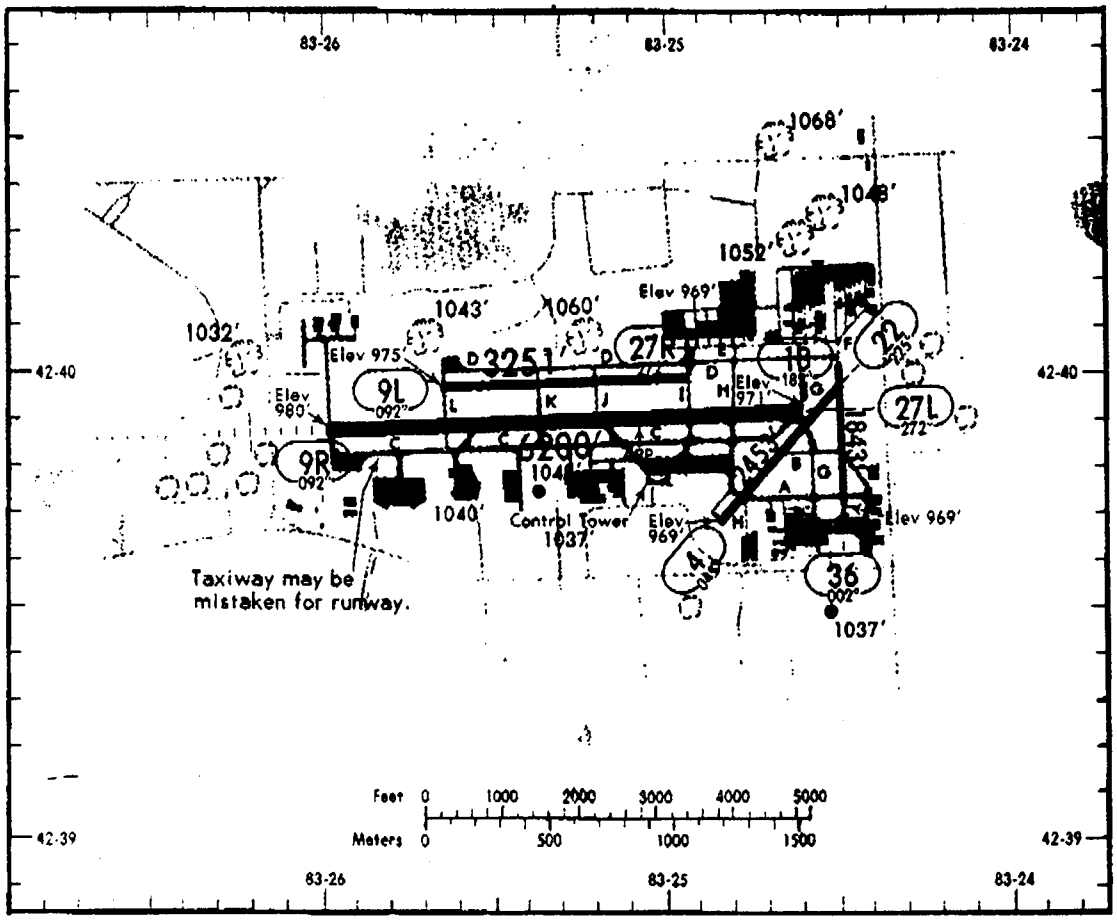
	EXISTING	NEW GENERATION		
05R	347AE	System Elements		QTY REQ'D
YIP	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 05R

PONTIAC MI (PTK)

AGL



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	EXISTING	NEW GENERATION
09R	347AE	
PTK	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 93	REPLACE	R/W 09R

APPENDIX 5. ANE SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

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AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO (AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

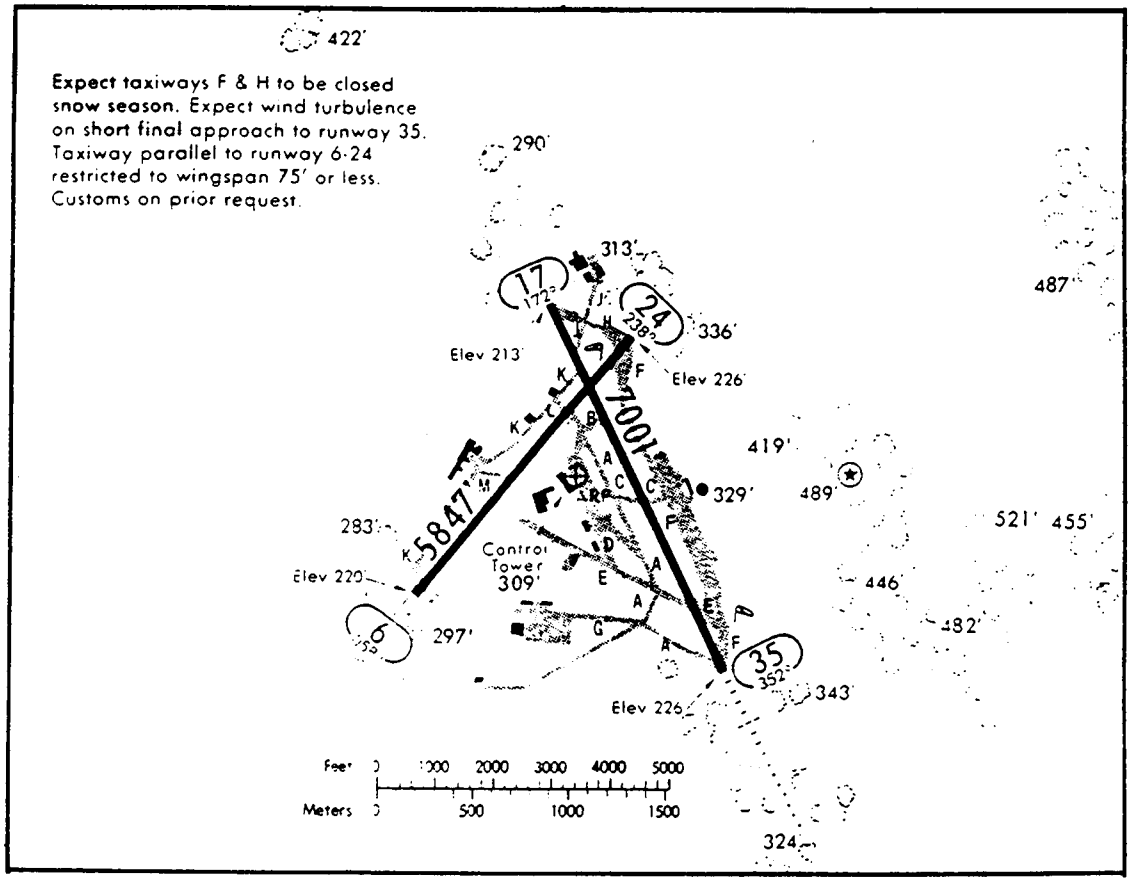
NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

MANCHESTER NH (MHT)

ANE



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EXISTING

NONE

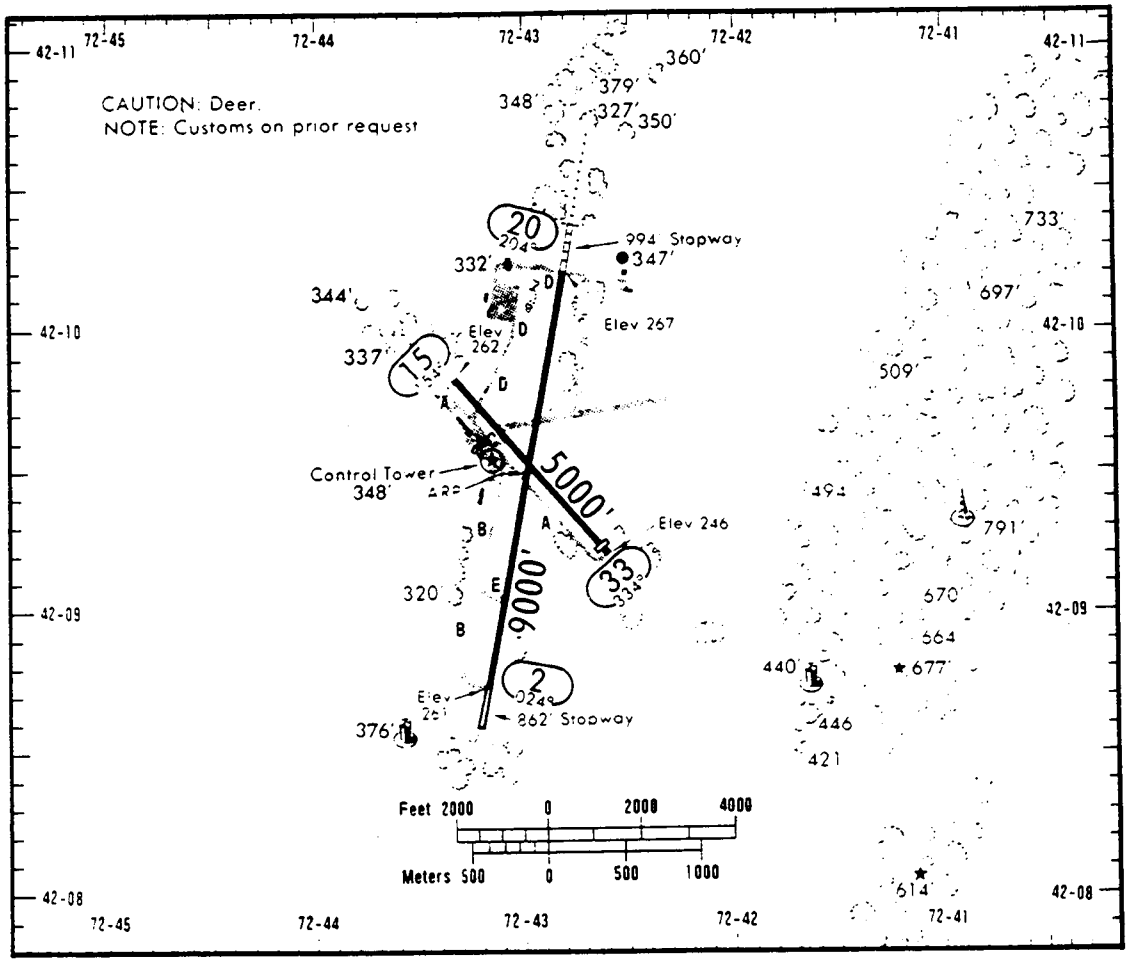
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	–	
Other	–	
Total Displays		4

FY 85	ESTABLISH	R/W 35

WESTFIELD MA (BAF)

ANE



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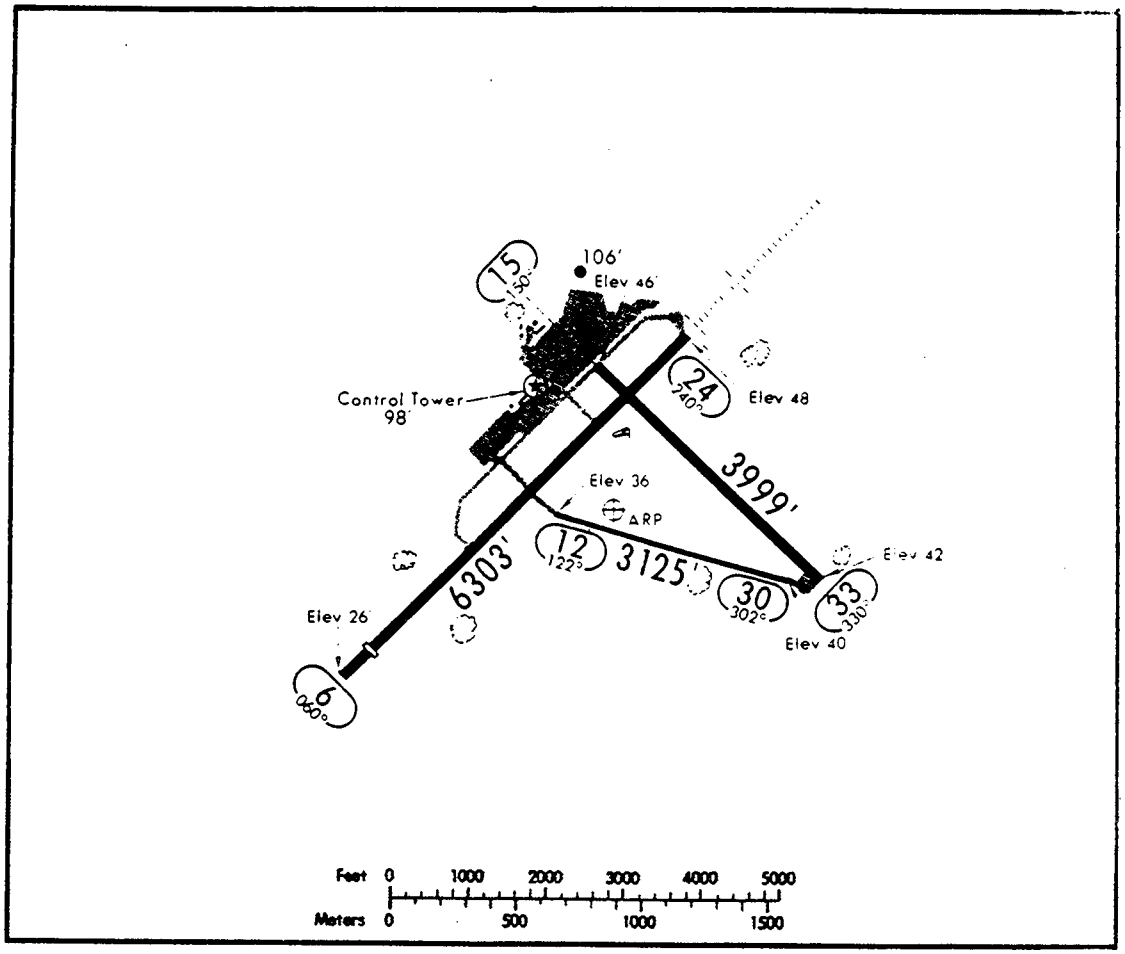
EXISTING	NEW GENERATION
NONE	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 20

NANTUCKET MA (ACK)

ANE



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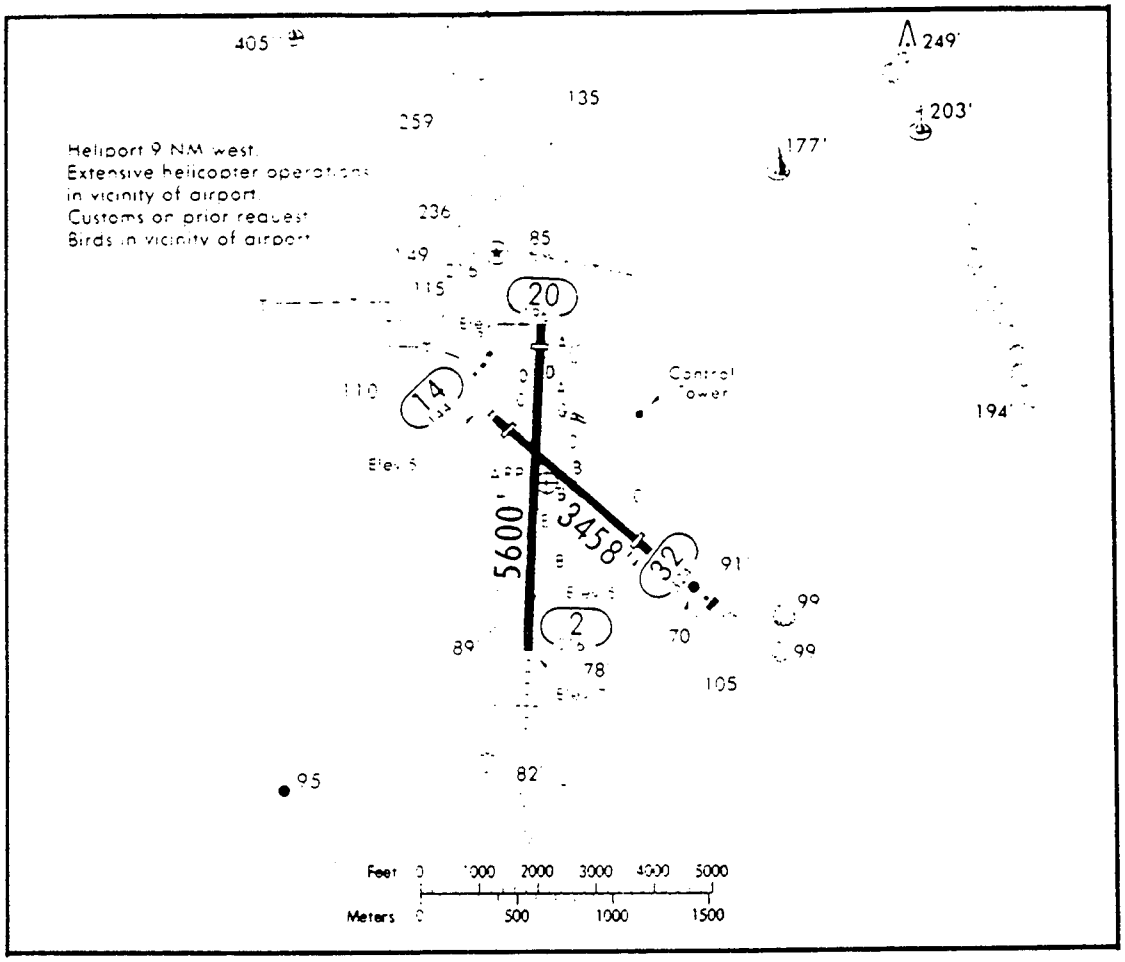
	EXISTING	NEW GENERATION		
24	347AE	System Elements		QTY REQ'D
ACK	TD	Basic		1
		Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 88	ESTABLISH	R/W 06

NEW HAVEN CT (HVN)

ANE



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EXISTING

NONE

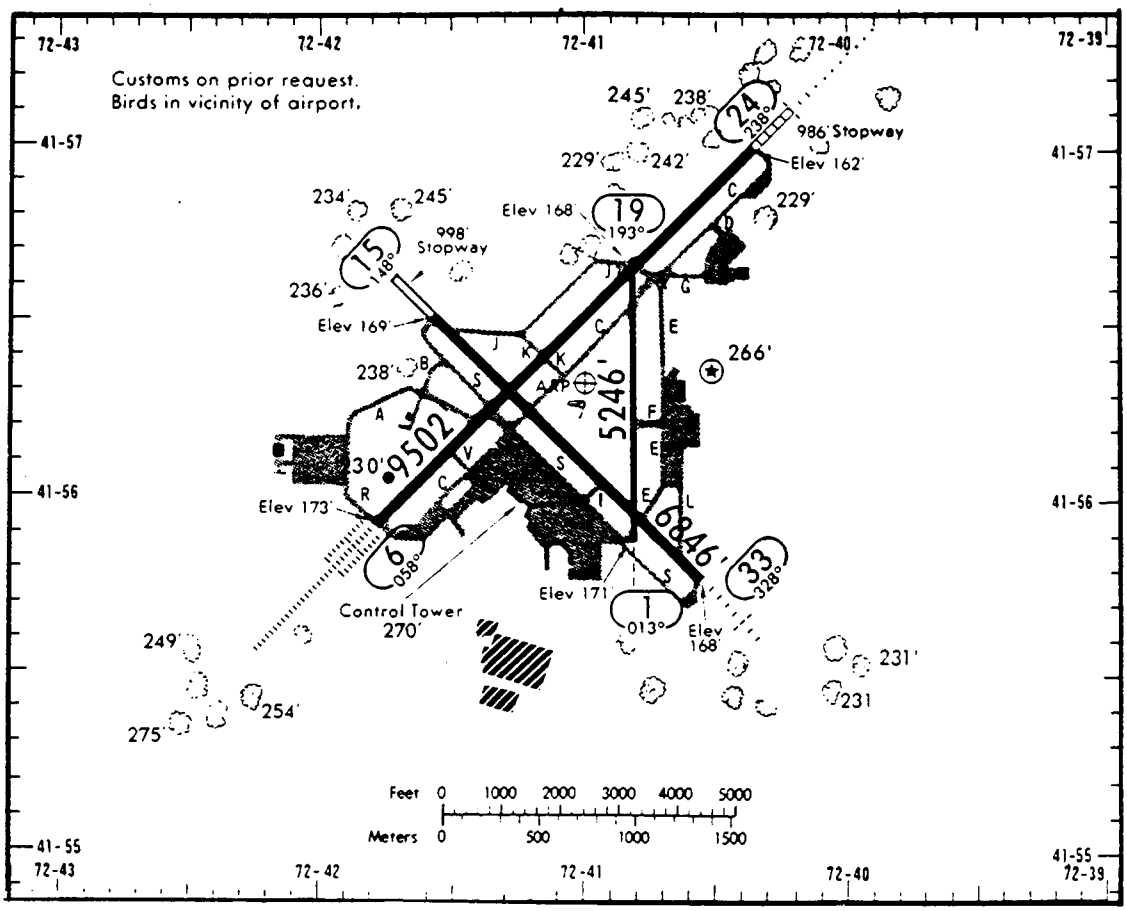
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	–	
TRACON	–	
NWS	–	
Other	–	
Total Displays		1

FY 88	ESTABLISH	R/W 02

WINDSOR LOCKS CT (BDL)

ANE



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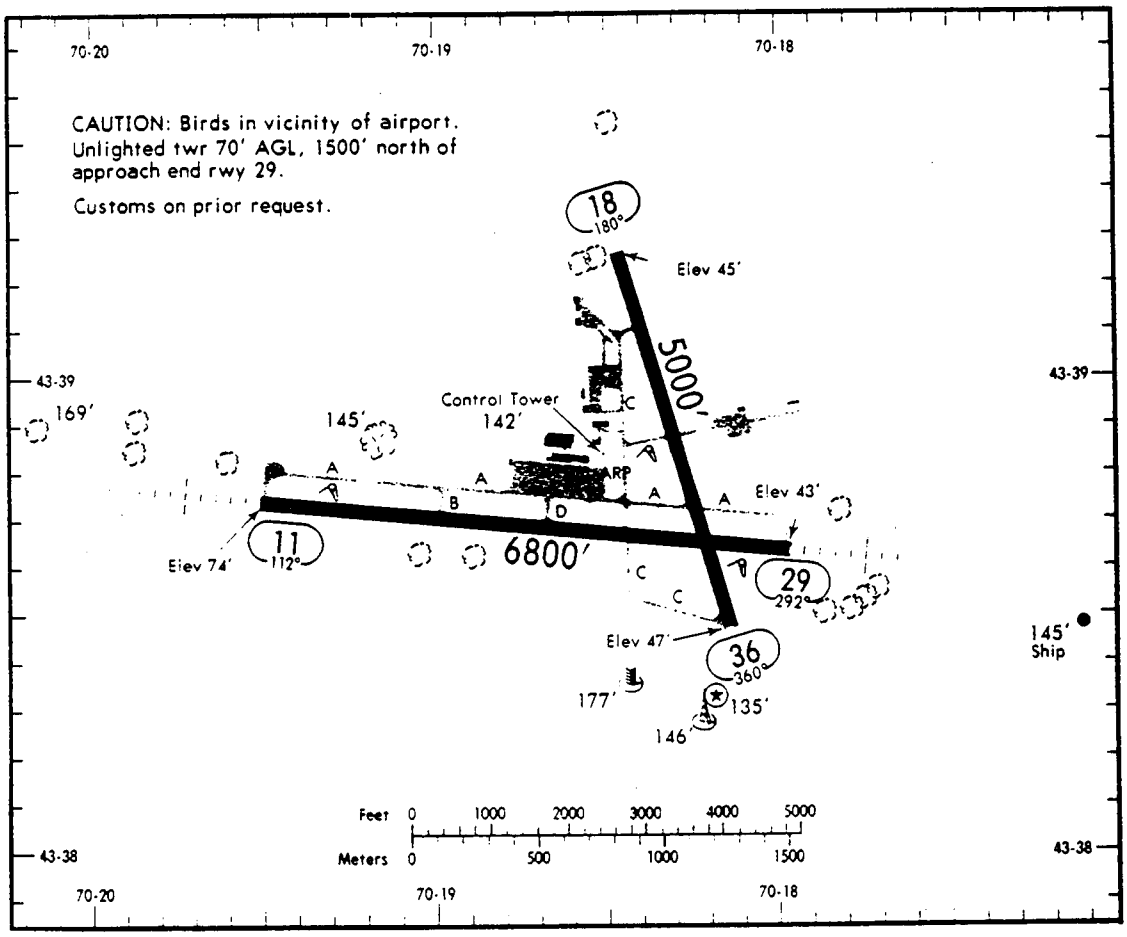
EXISTING		NEW GENERATION		
06	347AE	System Elements		QTY REQ'D
BDL	TD	Basic		1
BDLM	MP	Sensor Packages		2
BDLR	RO	RLIM		–
		Displays		
		ATCT	3	
		TRACON	4	
		NWS	1	
		Other	–	
		Total Displays		8

FY 93	REPLACE	R/W 06

PORTLAND ME (PWM)

ANE



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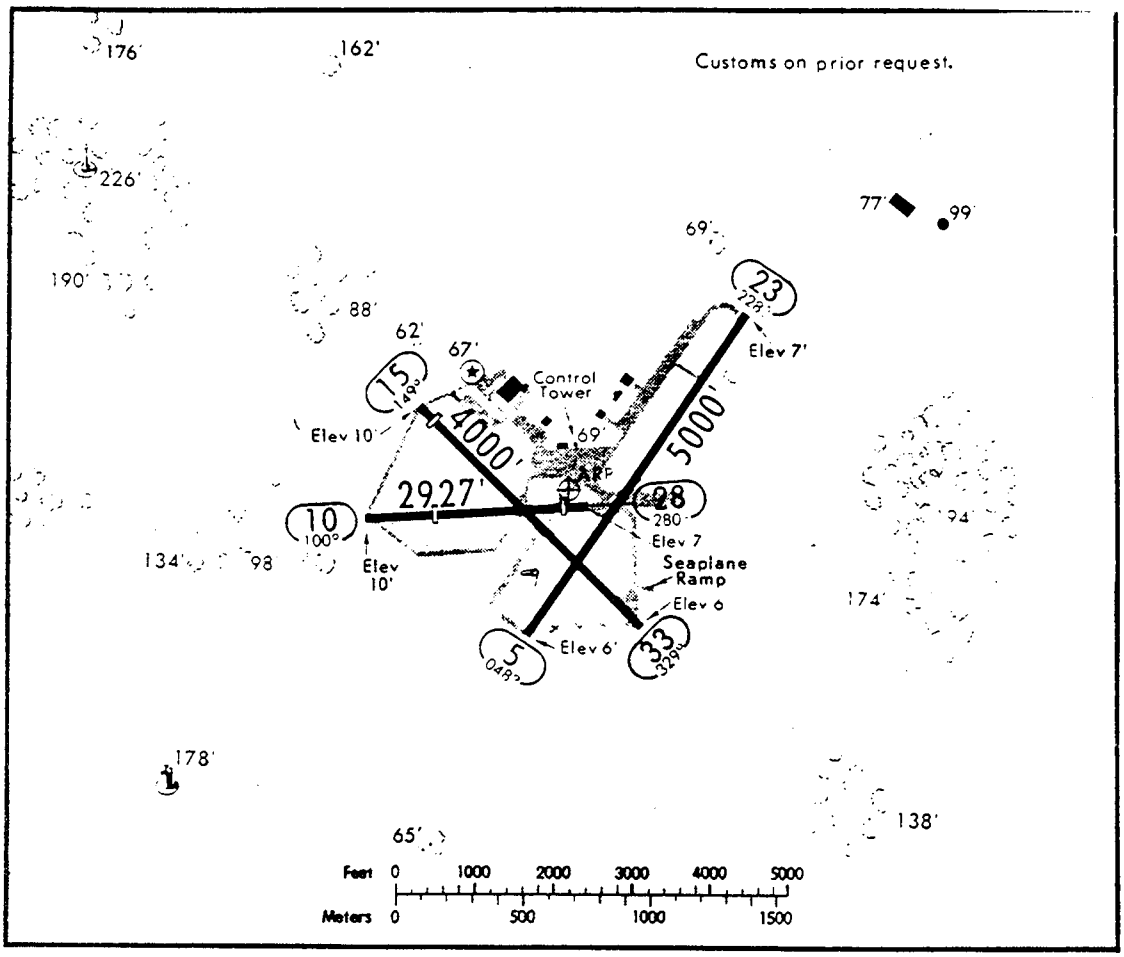
	EXISTING	NEW GENERATION		QTY REQ'D
11	347AE	System Elements		
PWM	TD	Basic		1
		Sensor Packages		1
29	347AE	RLIM		–
	TD	Displays		
		ATCT	3	
		TRACON	4	
		NWS	1	
		Other	–	
		Total Displays		8

FY 93	REPLACE	R/W 11/29

GROTON CT (TMU) ANE



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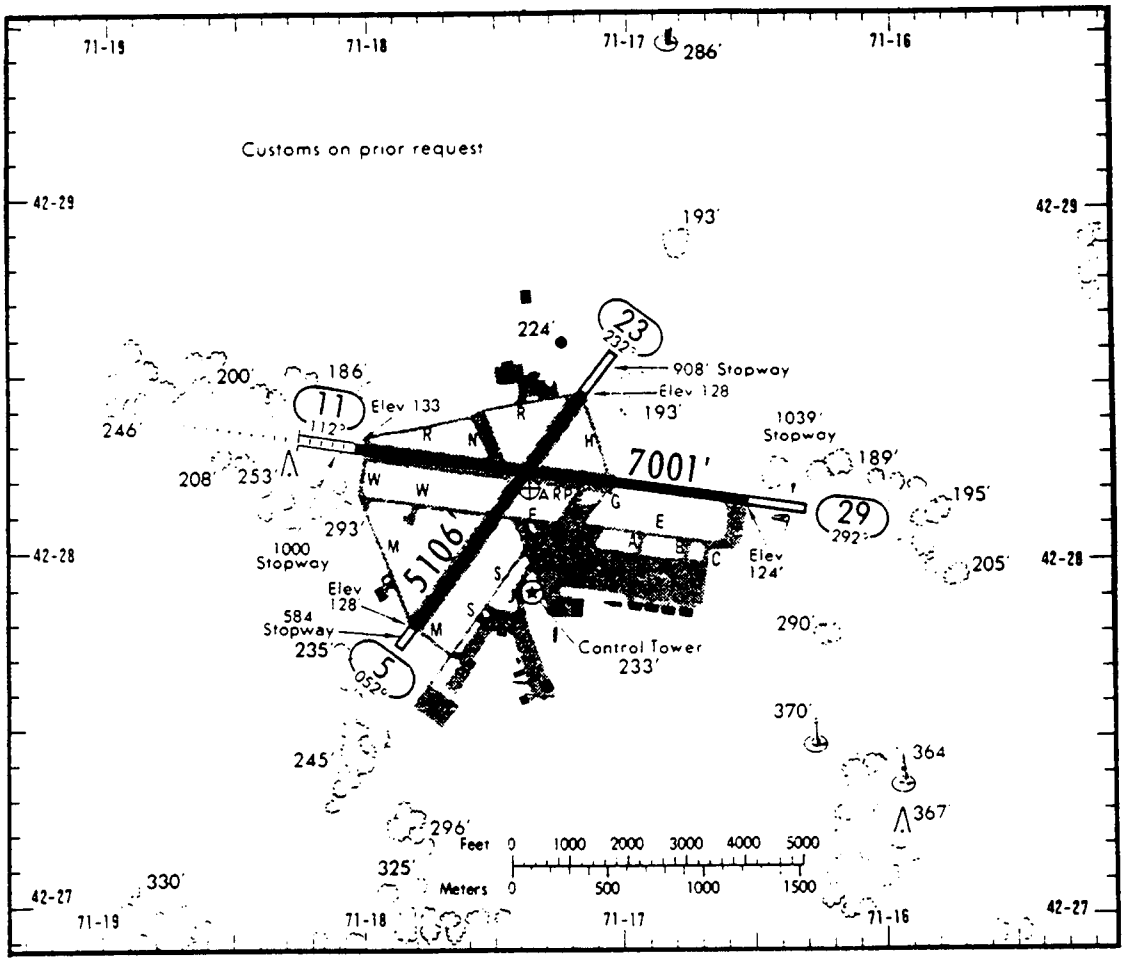
	EXISTING	NEW GENERATION		
23	347AE	System Elements		QTY REQ'D
	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 23

BEDFORD MA (BED)

ANE



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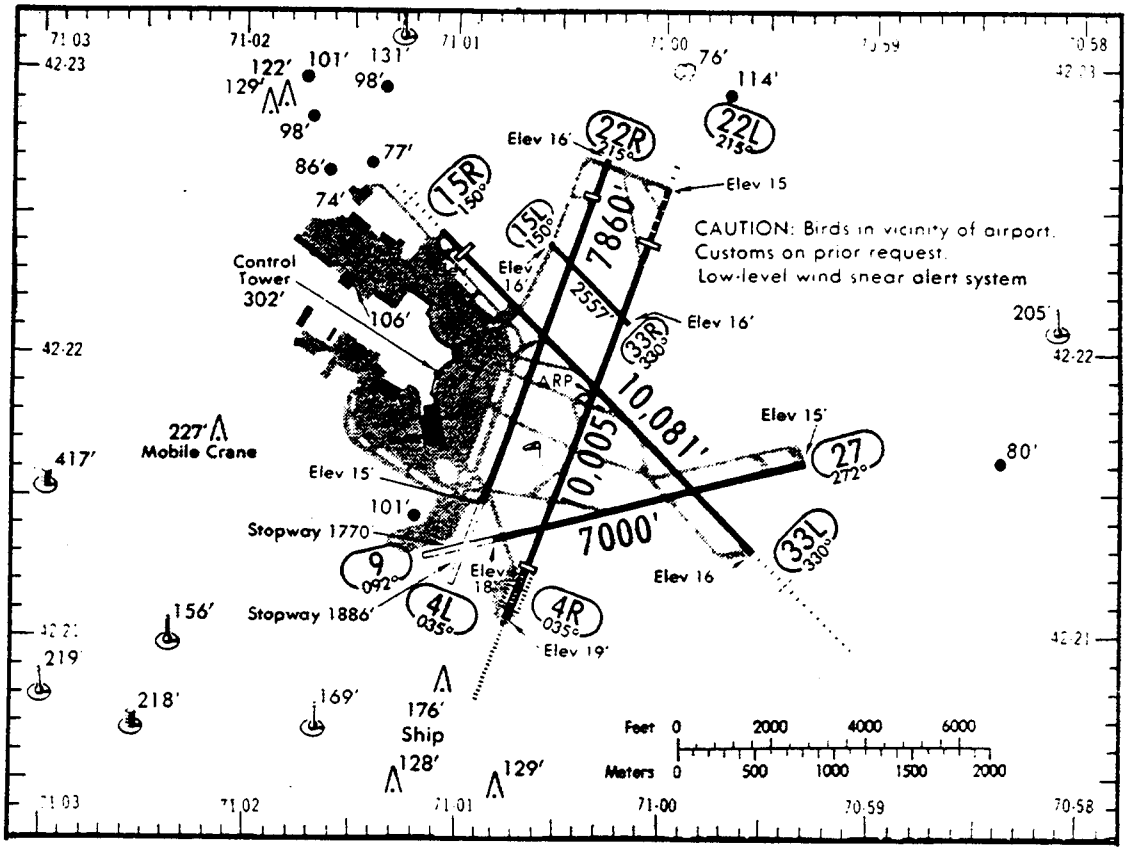
	EXISTING	NEW GENERATION		QTY REQ'D
11	347AE	System Elements		QTY REQ'D
BED	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 11

BOSTON MA (BOS)

ANE



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EXISTING	
04R	347AE
BOS	TD
BOSM	MP
BOSR	RO
33L	347AE
LIP	TD
15R	347AE
MDC	TD

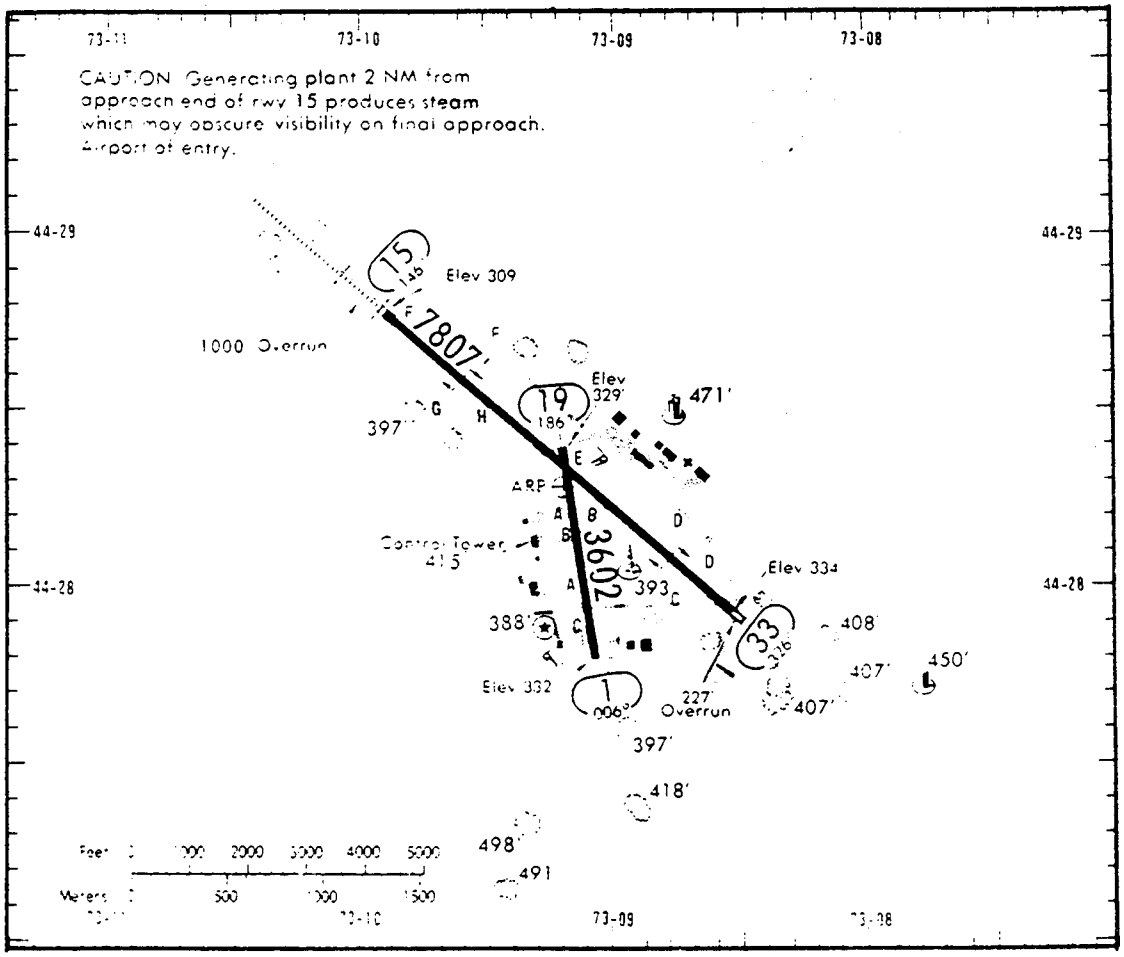
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		4
RLIM		1
Displays		
ATCT	4	
TRACON	5	
NWS	1	
Other	–	
Total Displays		10

FY 93	REPLACE	R/W 15R/33L, 04R

BURLINGTON VT (BTV)

ANE



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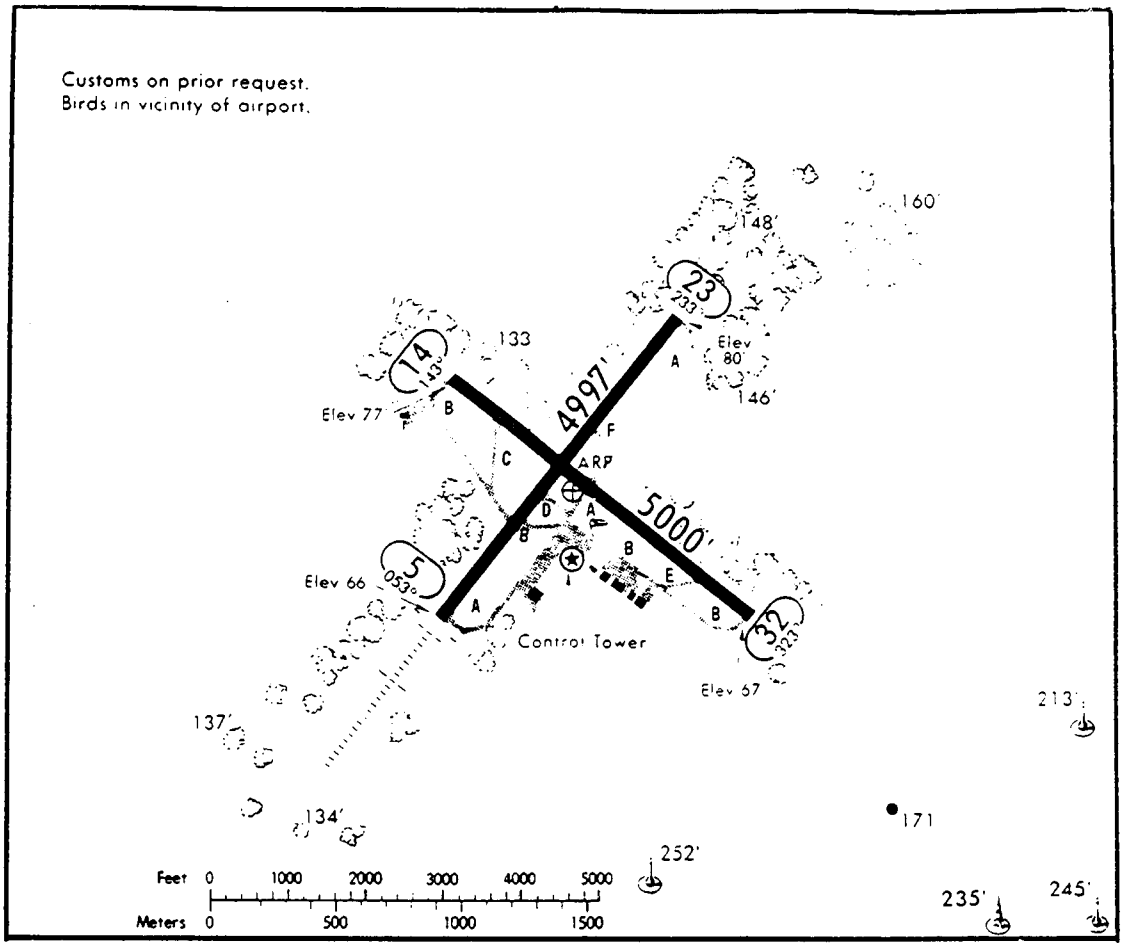
	EXISTING	NEW GENERATION		
15	347AE	System Elements		QTY REQ'D
BTVR	RO	Basic		1
BTVT	TD	Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 15

NEW BEDFORD MA (EWB)

ANE



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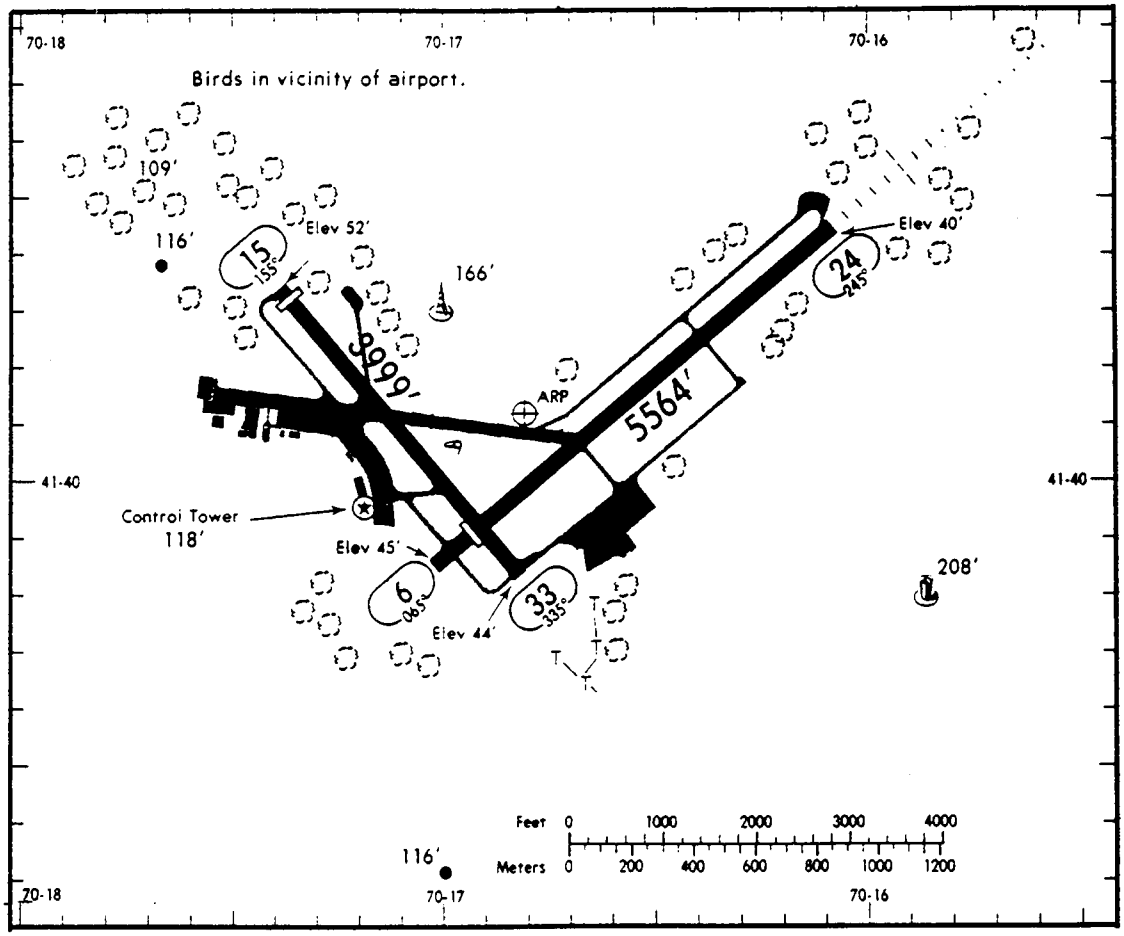
	EXISTING	NEW GENERATION		
05	347AE	System Elements		QTY REQ'D
EWB	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 05

HYANNIS MA (HYA)

ANE



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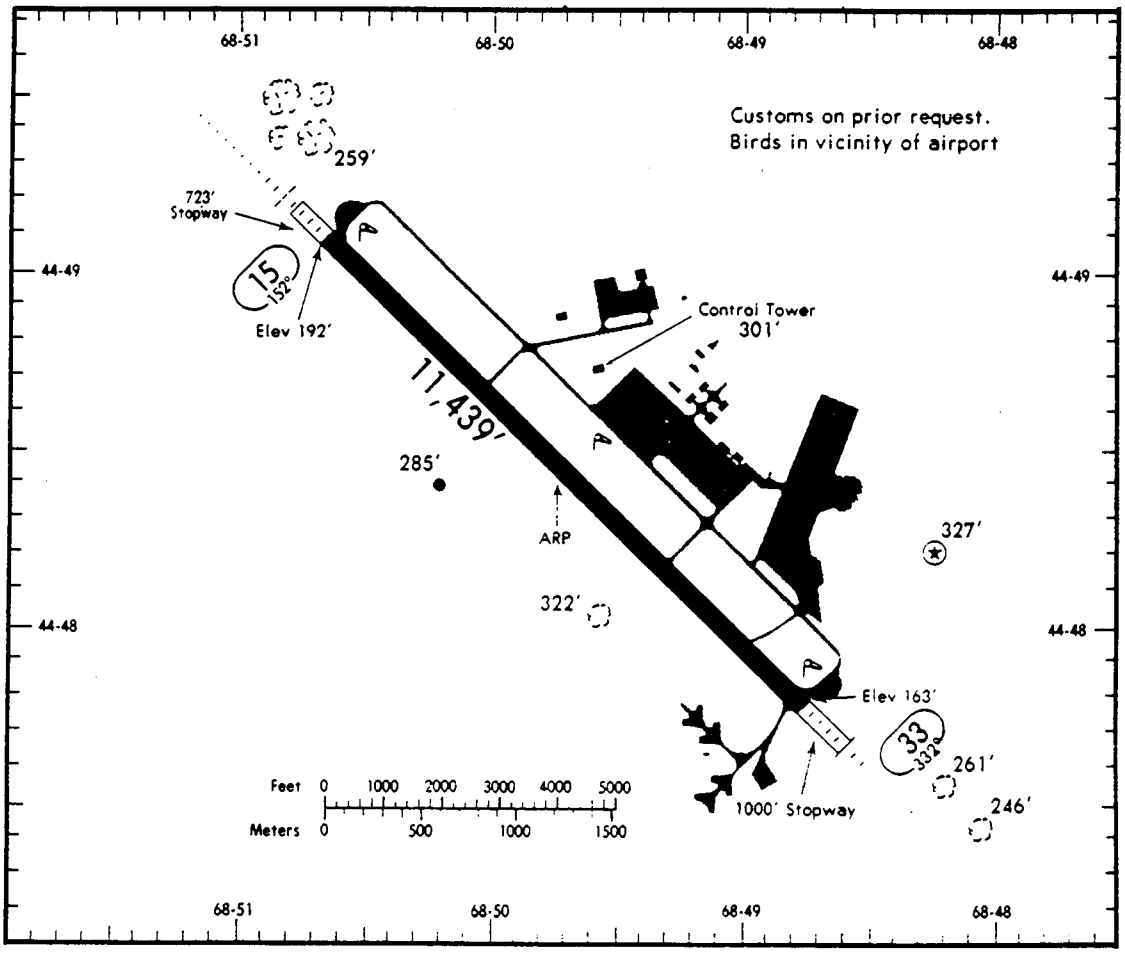
	EXISTING	NEW GENERATION		
24	347AE	System Elements		QTY REQ'D
HYA	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 24

BANGOR ME (BGR)

ANE



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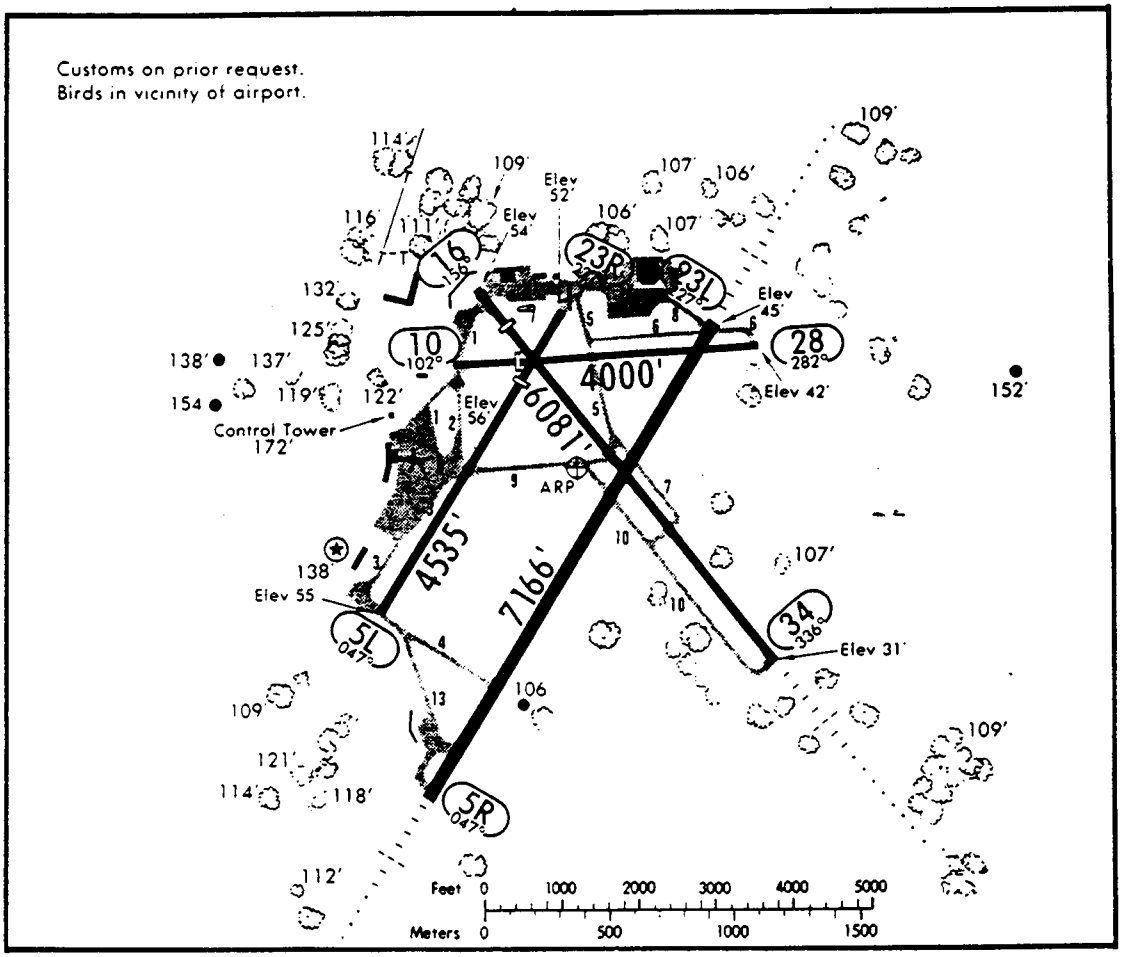
EXISTING		NEW GENERATION		
15	347AE	System Elements		QTY REQ'D
JVH	TD	Basic		1
JVHM	MP	Sensor Packages		2
JVHR	RO	RLIM		–
		Displays		
		ATCT	2	
		TRACON	3	
		NWS	–	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 15

PROVIDENCE RI (PVD)

ANE



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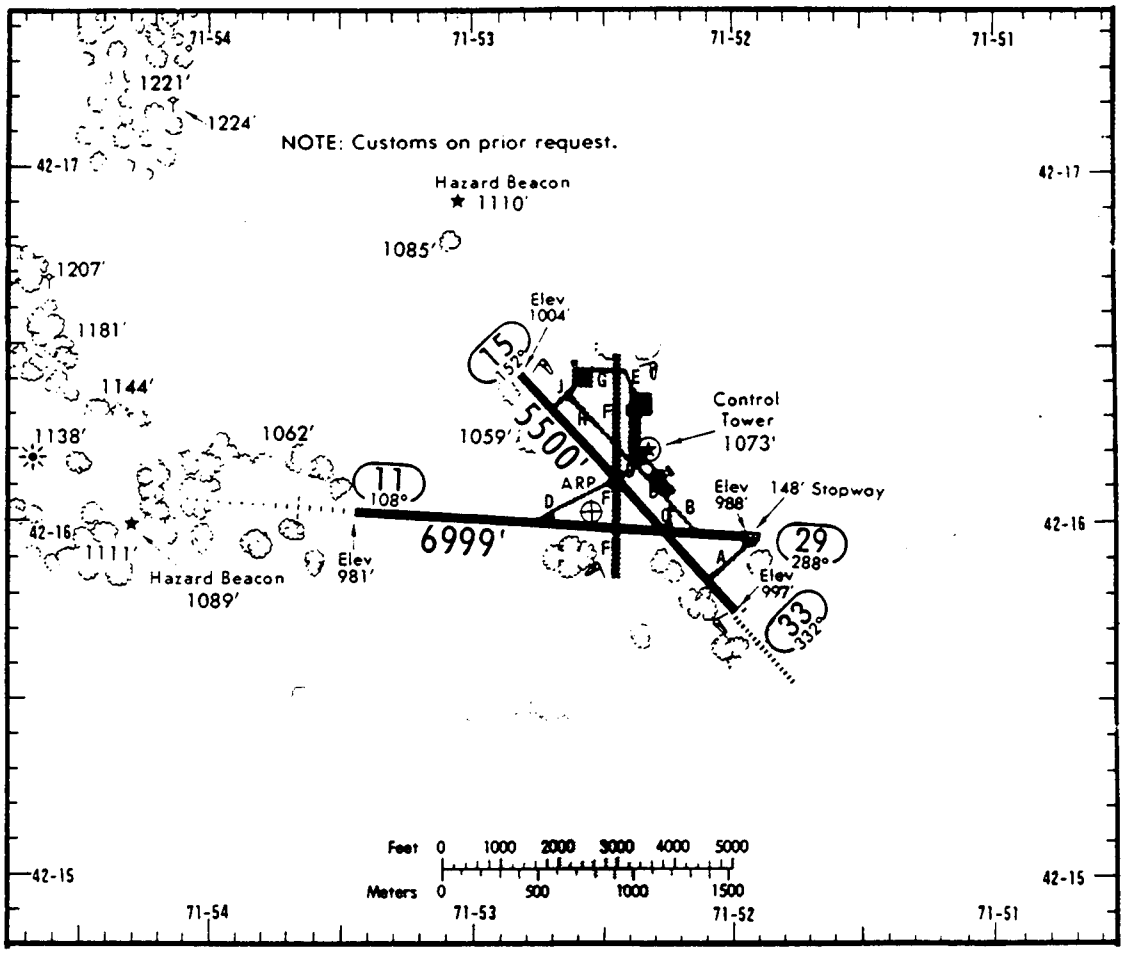
	EXISTING	NEW GENERATION		QTY REQ'D
05R	347AE	System Elements		
PVD	TD	Basic		1
PVDR	RO	Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 05R

WORCESTER MA (ORM)

ANE



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	EXISTING	NEW GENERATION
11	347AE	
RSR	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 93	REPLACE	R/W 11

APPENDIX 6. ANM SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO (AS APPLICABLE)

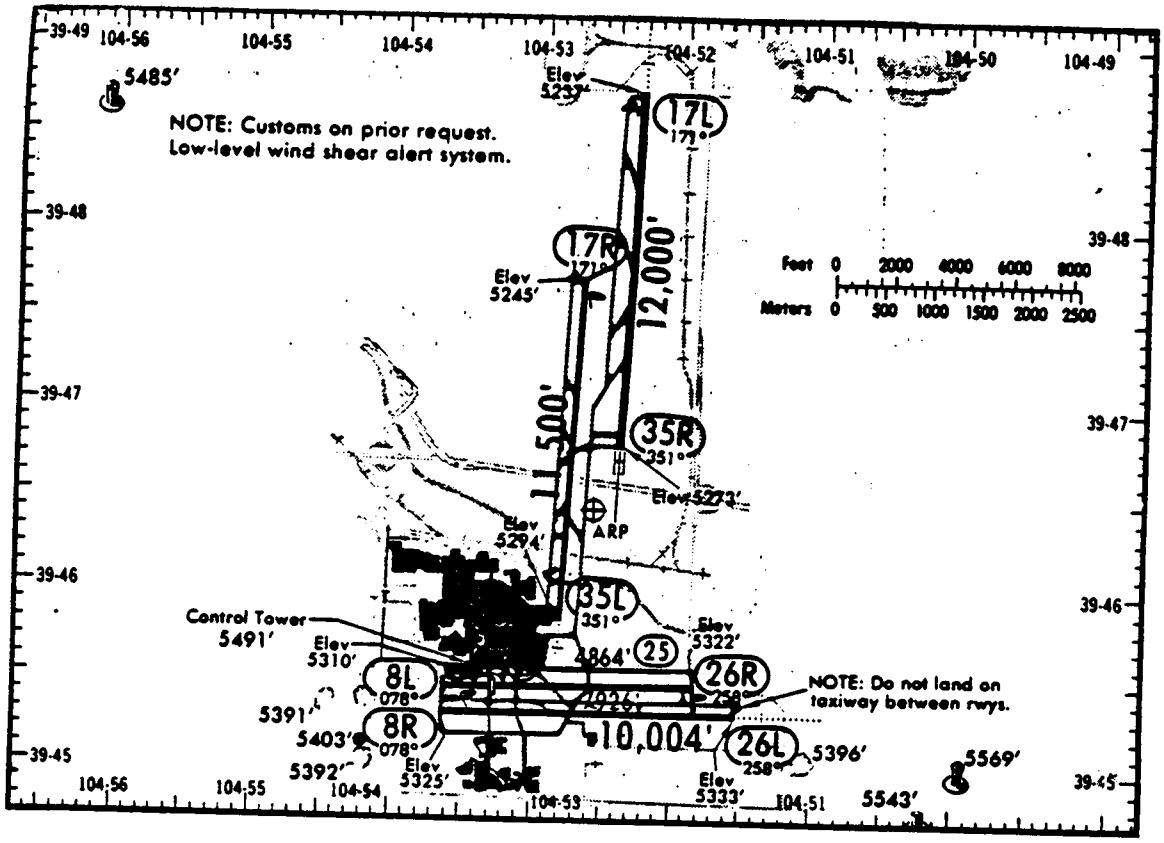
OTHER RVRs
(AS APPLICABLE)

NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

DENVER CO (DEN)



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EXISTING

26L	347AA	35L	347AA
DEN	TD	SPOA	TD
		SPOB	AB
35R	347AD		
RRV	TD		
RRVA	MP		
RRVB	RO		

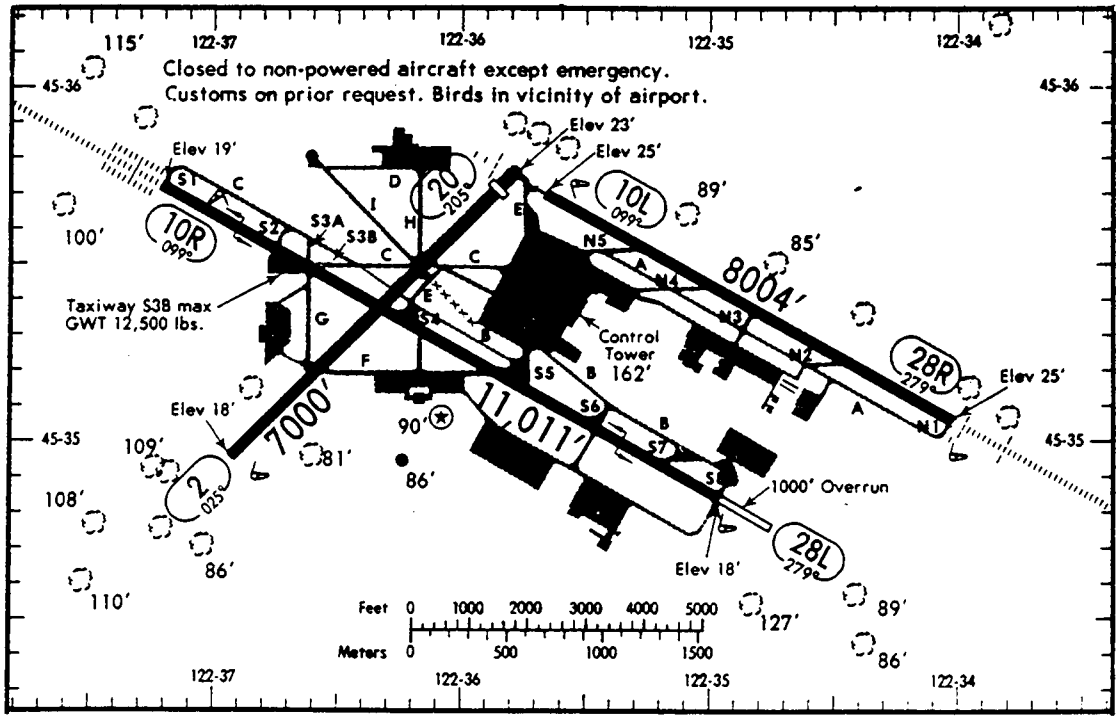
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		6
RLIM		2
Displays		
ATCT	5	
TRACON	4	
NWS	1	
Other	–	
Total Displays		10

FY 84	CAT IIIb	R/W 35R
FY 86	ESTABLISH	R/W 08R
FY 86	REPLACE	R/W 35L

PORTLAND OR (PDX)

ANM



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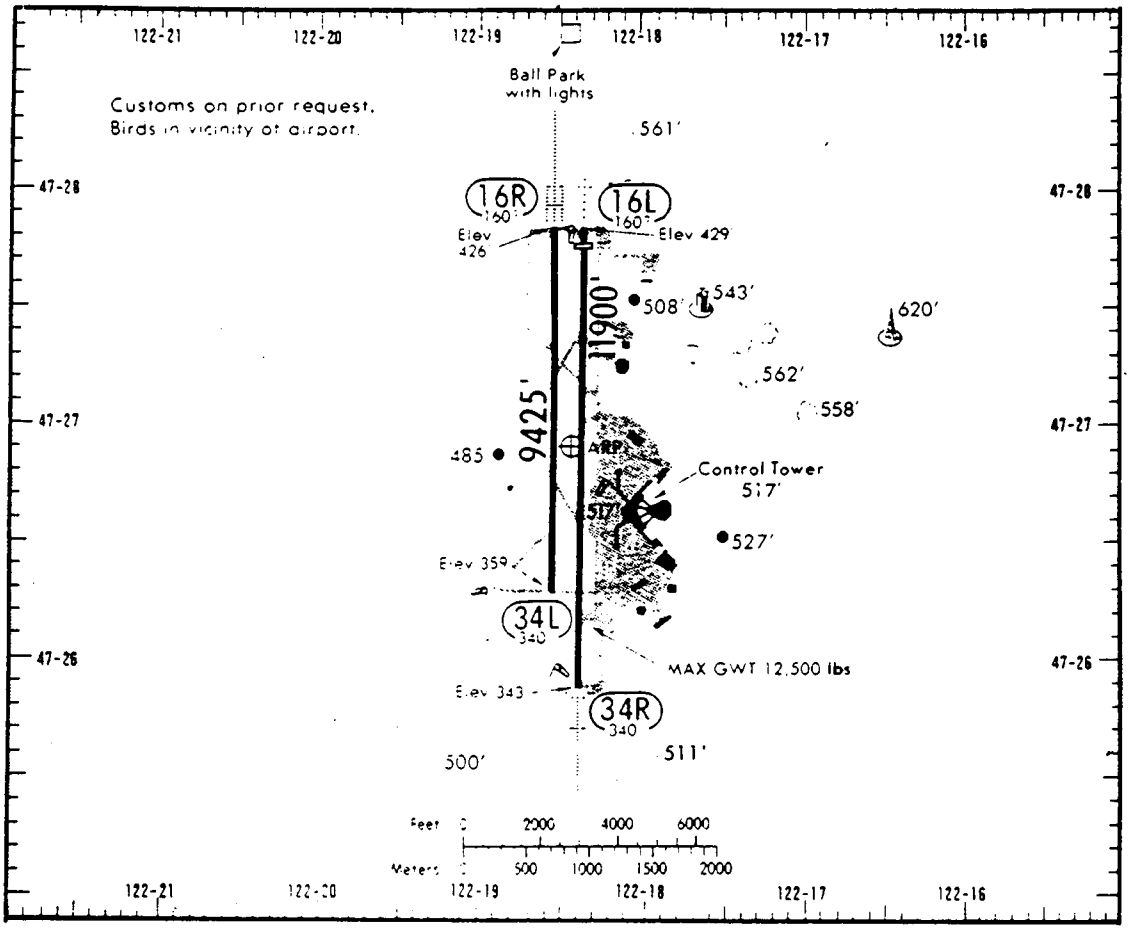
	EXISTING	NEW GENERATION		
10R	347AD	System Elements		QTY REQ'D
PDX	TD	Basic		1
PDXA	MP	Sensor Packages		4
PDXB	RO	RLIM		1
		Displays		
28R	347AD	ATCT	4	
		TRACON	6	
IAP	TD	NWS	1	
		Other	–	
		Total Displays		11

FY 84	CAT IIIb	R/W 10R
FY 86	ESTABLISH	R/W 10L
FY 86	REPLACE	R/W 28R

SEATTLE WA (SEA)

ANM



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	EXISTING
34R	347AE
SEA	TD
16R	347AE
SZI	TD
SZIA	RO
SZIB	MP

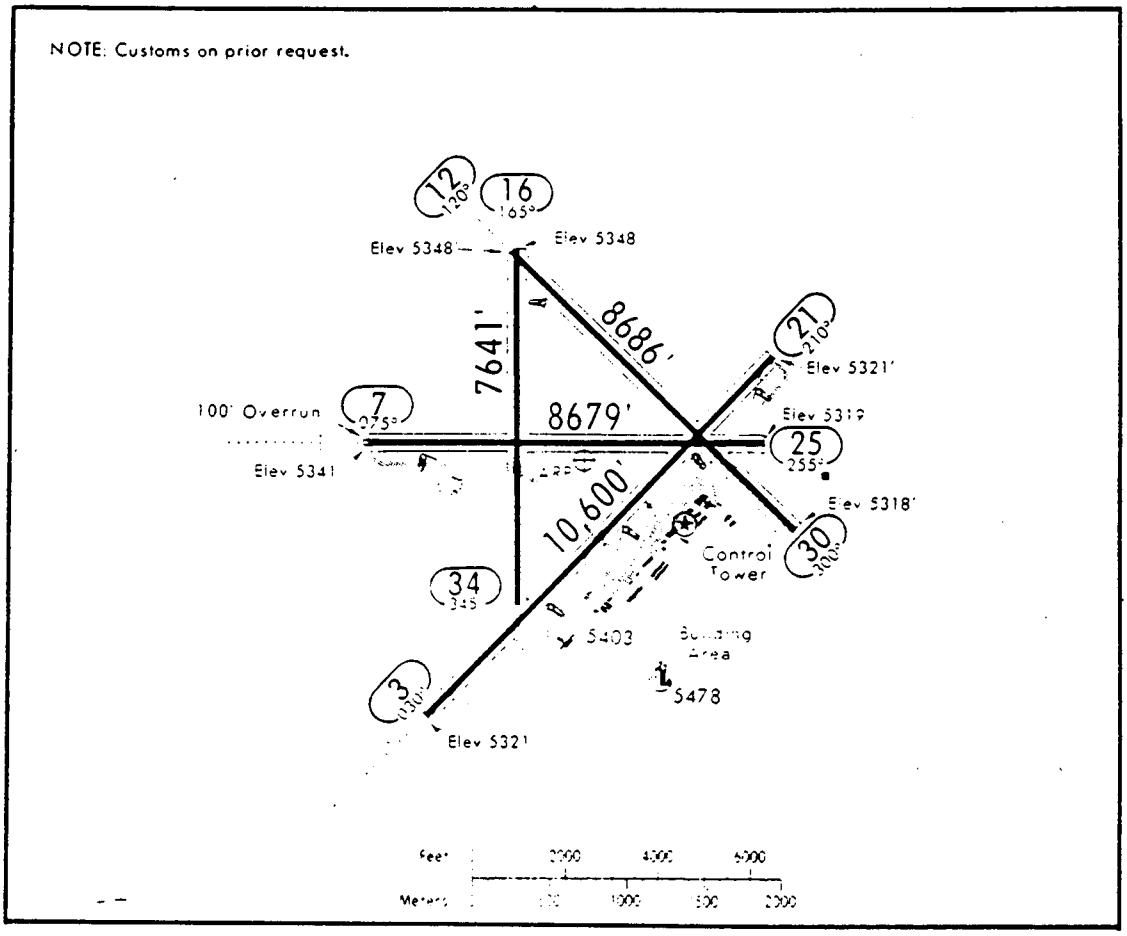
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	3	
TRACON	4	
NWS	1	
Other	–	
Total Displays		8

FY 84	CAT IIb	R/W 16R

CASPER WY (CPR)

ANM



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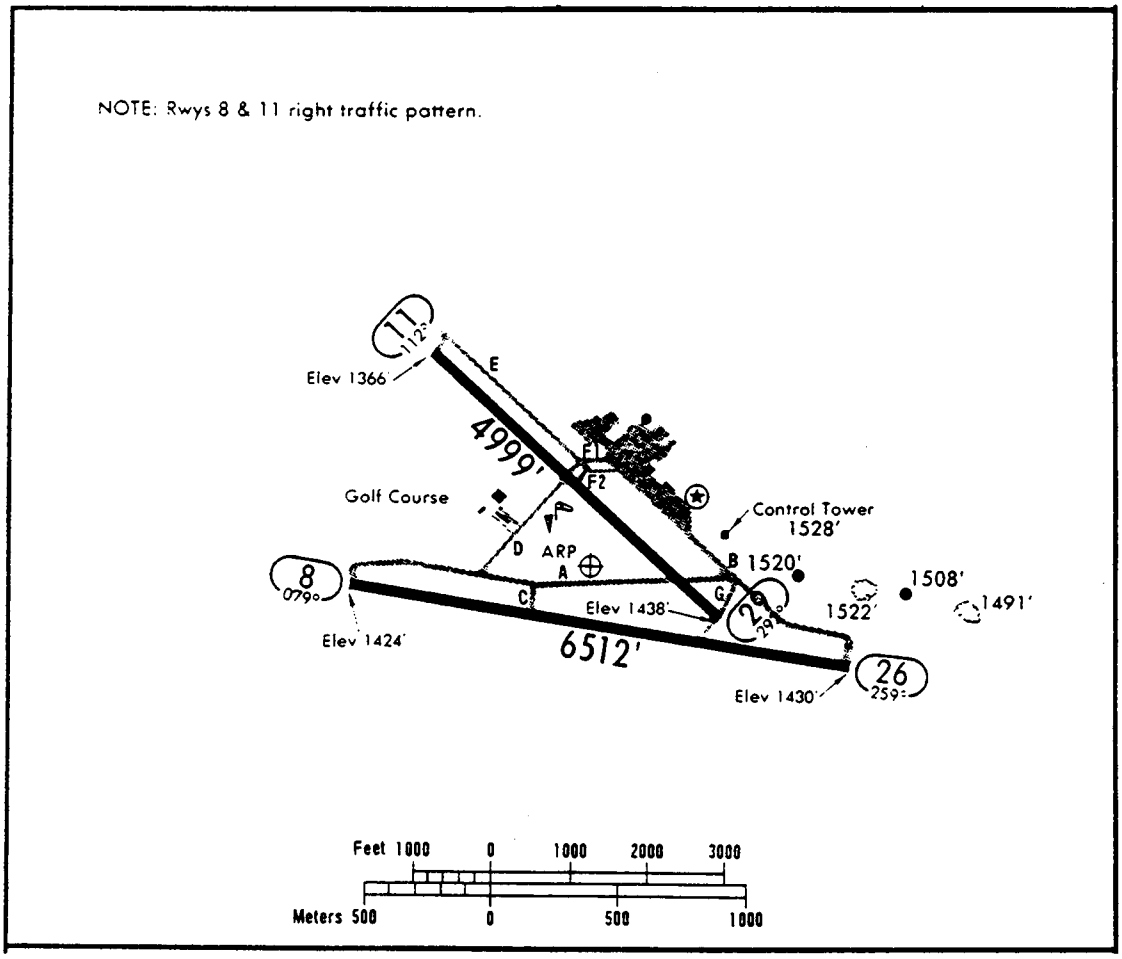
	EXISTING	NEW GENERATION		
07	347AG	System Elements		QTY REQ'D
CPR	TD	Basic		1
		Sensor Packages		1
		RLIM		1
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 84	ESTABLISH	R/W 03
FY 86	REPLACE	R/W 07

LEWISTON ID (LWS)

ANM



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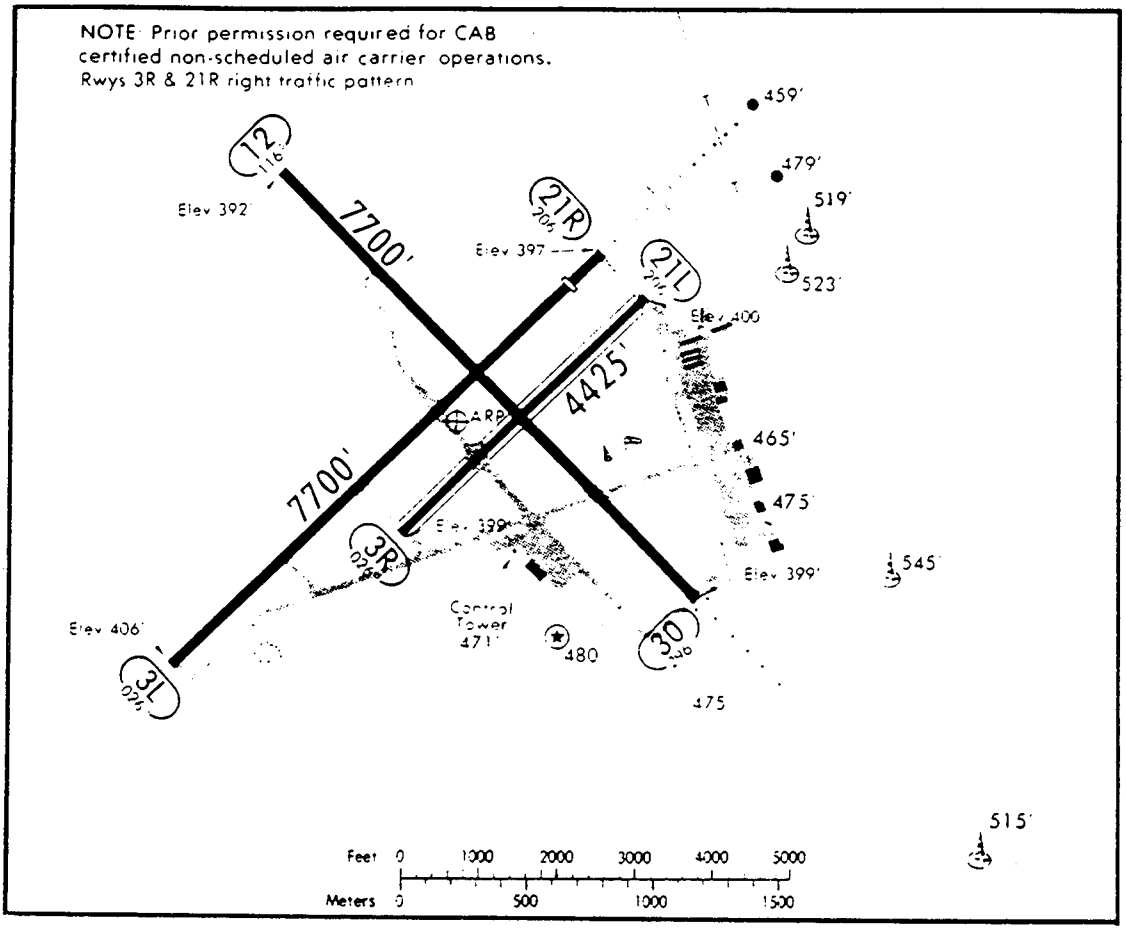
EXISTING	NEW GENERATION	
NONE	System Elements	QTY REQ'D
	Basic	1
	Sensor Packages	–
	RLIM	–
	Displays	
	ATCT 2	
	TRACON –	
	NWS –	
	Other –	
	Total Displays	2

FY 84	ESTABLISH	R/W 26

PASCO WA (PSC)

ANM



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EXISTING

NONE

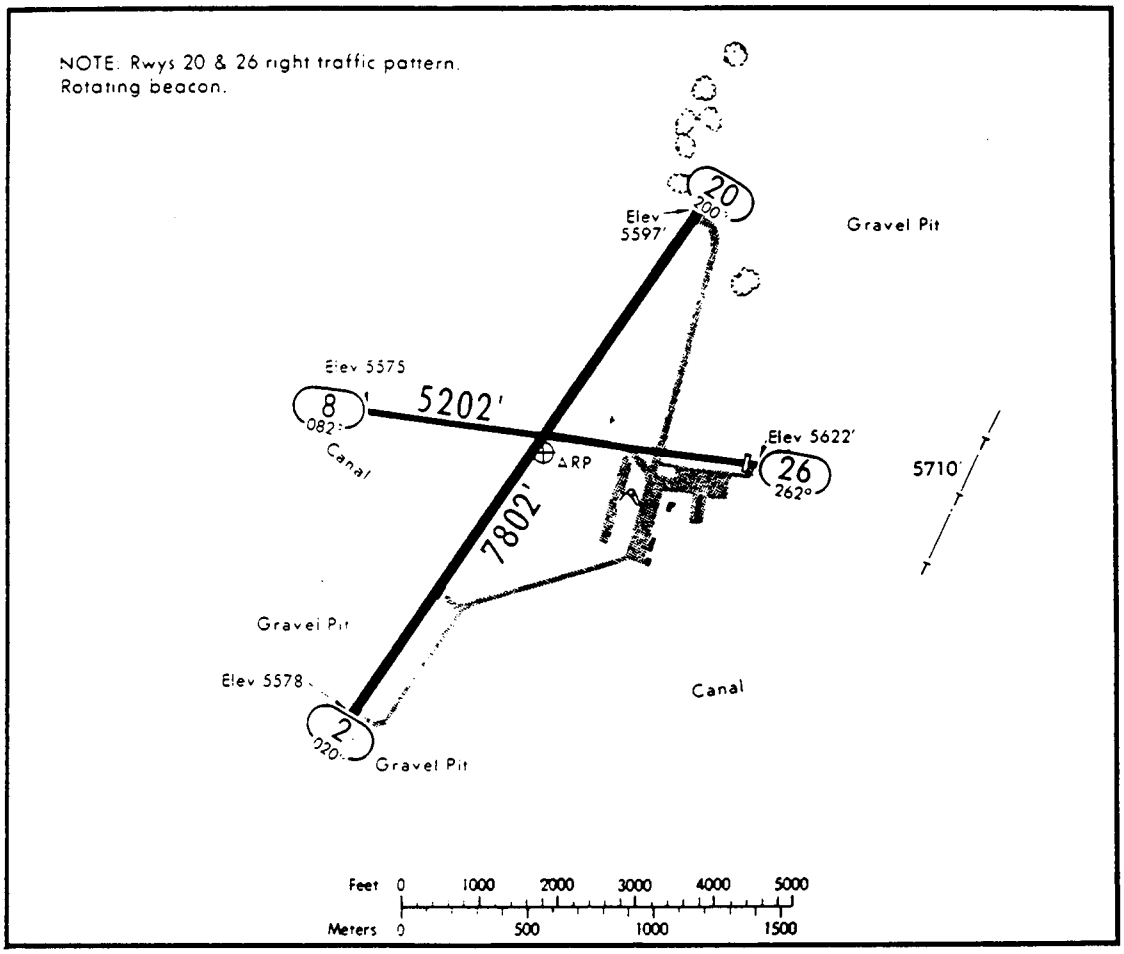
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 21R

CEDAR CITY UT (CDC)

ANM



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EXISTING

NONE

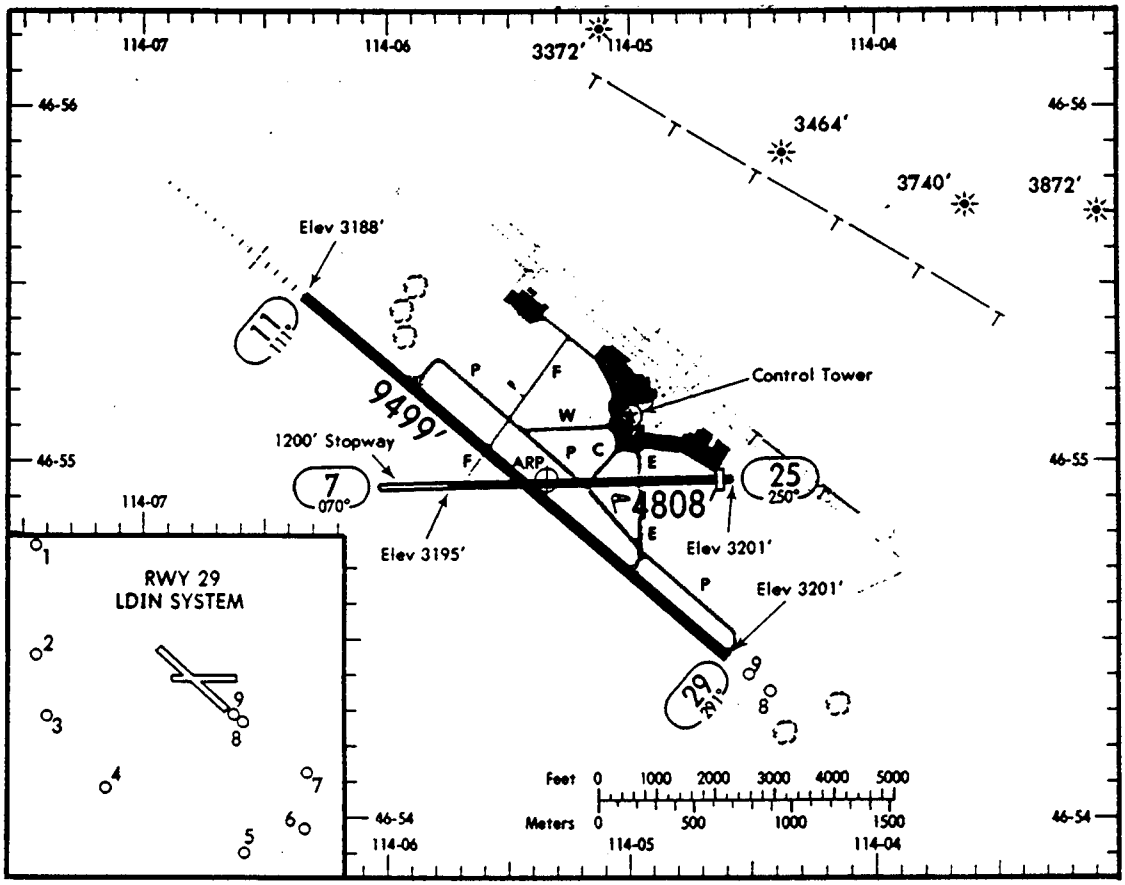
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 22

MISSOULA MT (MSO)

ANM



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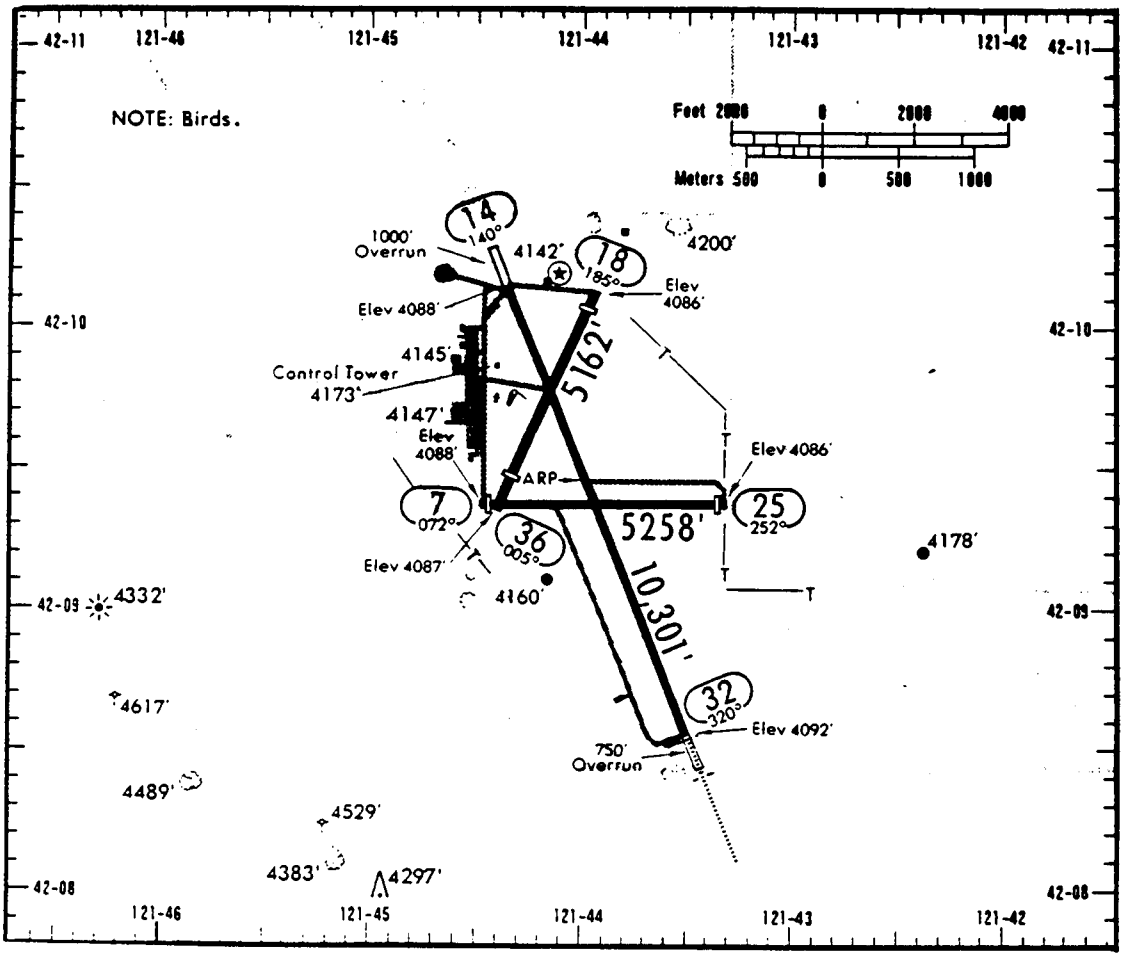
EXISTING	NEW GENERATION	
NONE	System Elements	QTY REQ'D
	Basic	1
	Sensor Packages	–
	RLIM	–
	Displays	
	ATCT 4	
	TRACON –	
	NWS –	
	Other –	
	Total Displays	4

FY 85	ESTABLISH	R/W 11

KLAMATH FALLS OR (LMT)

ANM



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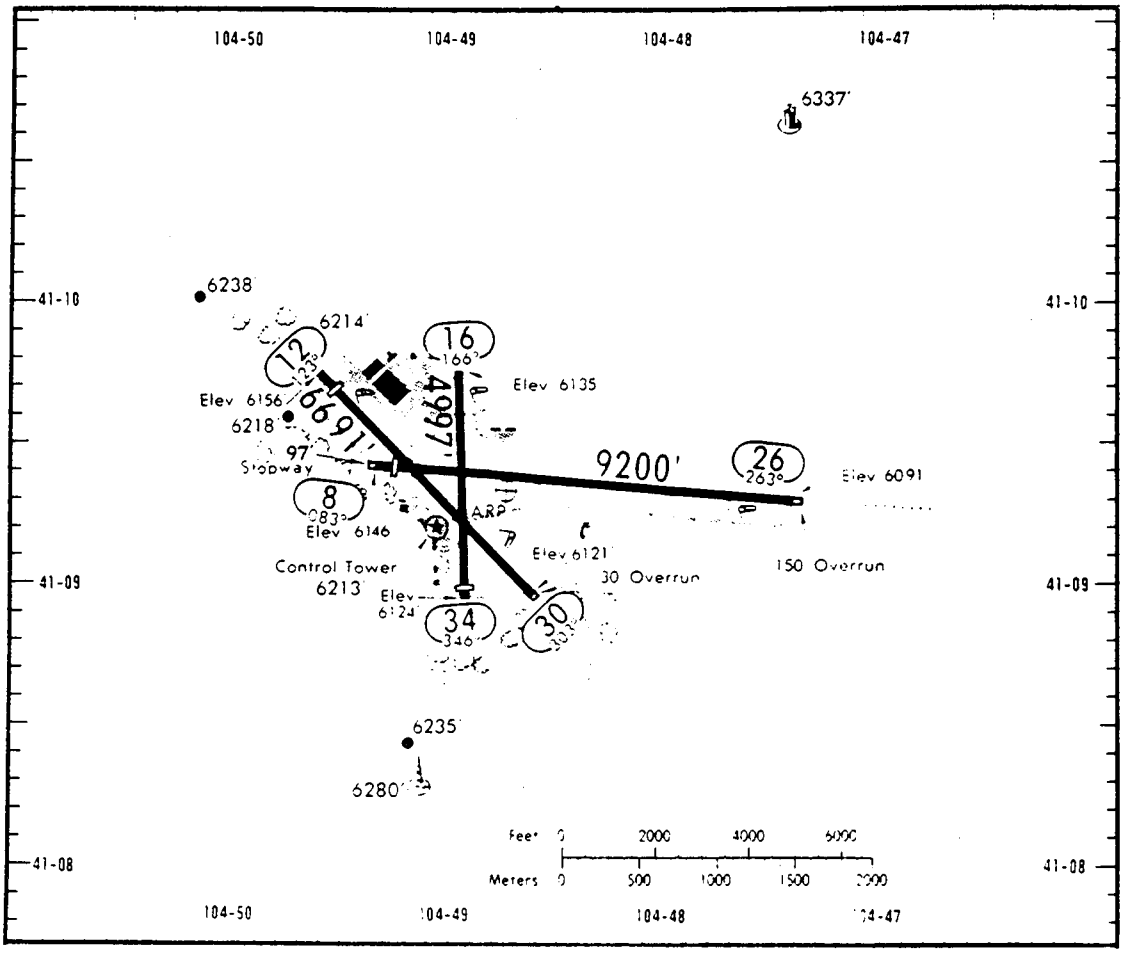
	EXISTING	NEW GENERATION		
32	347AC	System Elements		QTY REQ'D
LMT	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 85	REPLACE	R/W 32

CHEYENNE WY (CYS)

ANM



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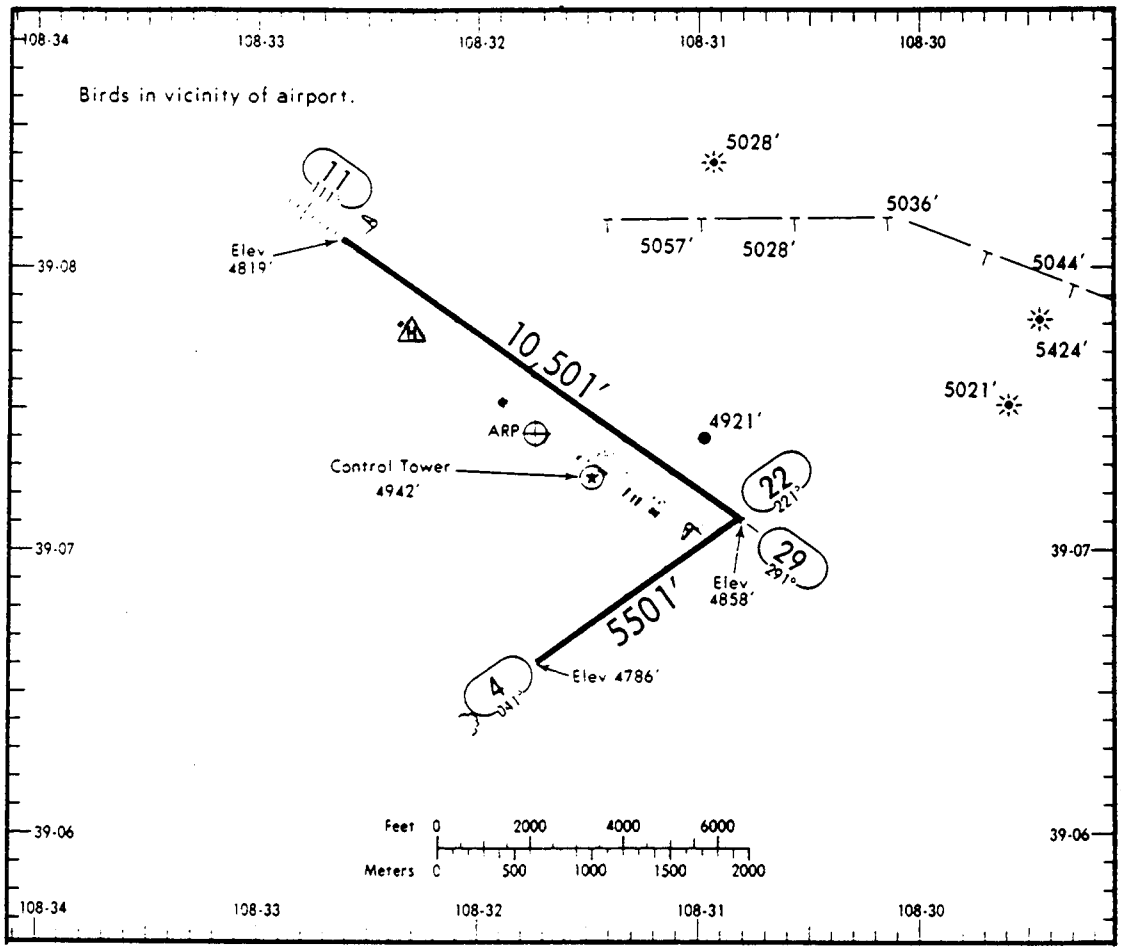
	EXISTING	NEW GENERATION		
26	34711	System Elements		QTY REQ'D
CYS	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		3

FY 85	CONVERT RVV	R/W 26

GRAND JUNCTION CO (GJT)

ANM



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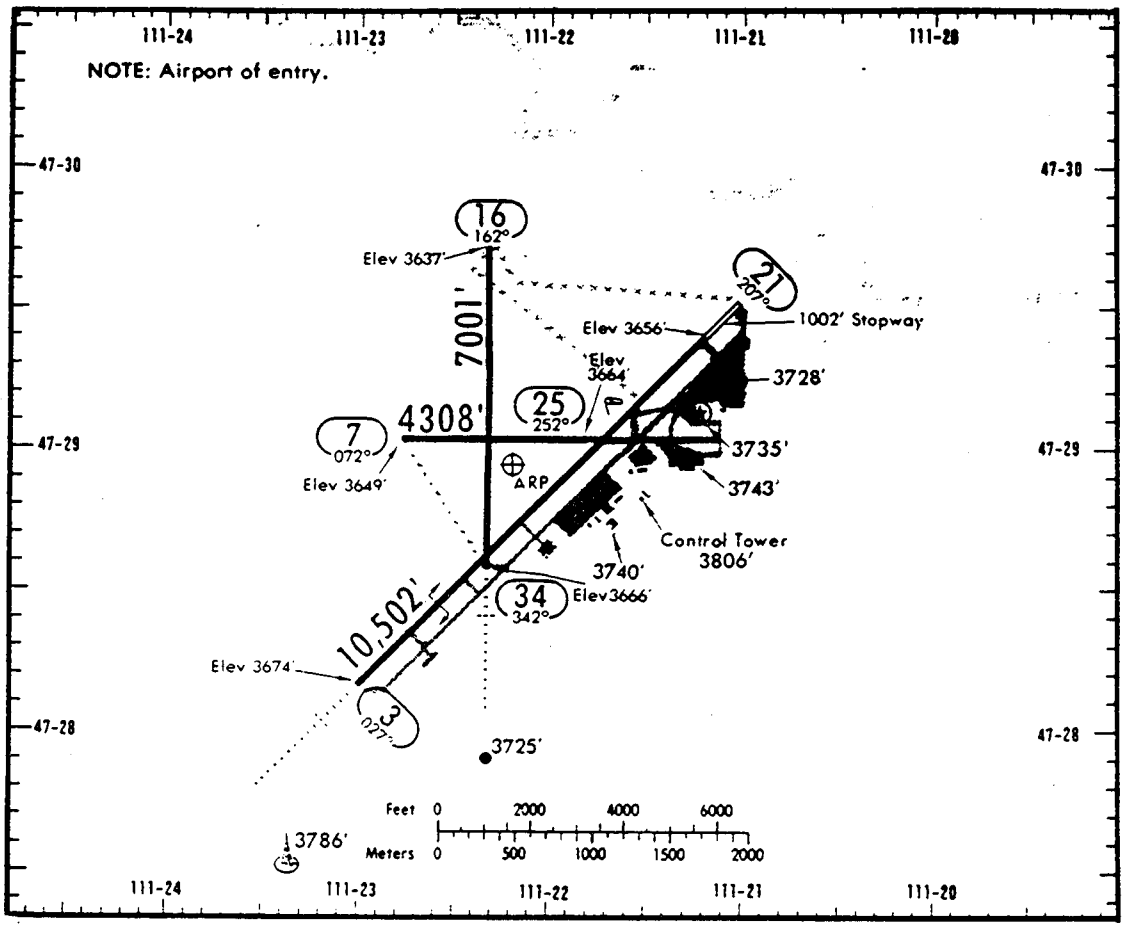
EXISTING		NEW GENERATION		
11	34711	System Elements		QTY REQ'D
GJT	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		3

FY 85	CONVERT RVV	R/W 11

GREAT FALLS MT (GTF)

ANM



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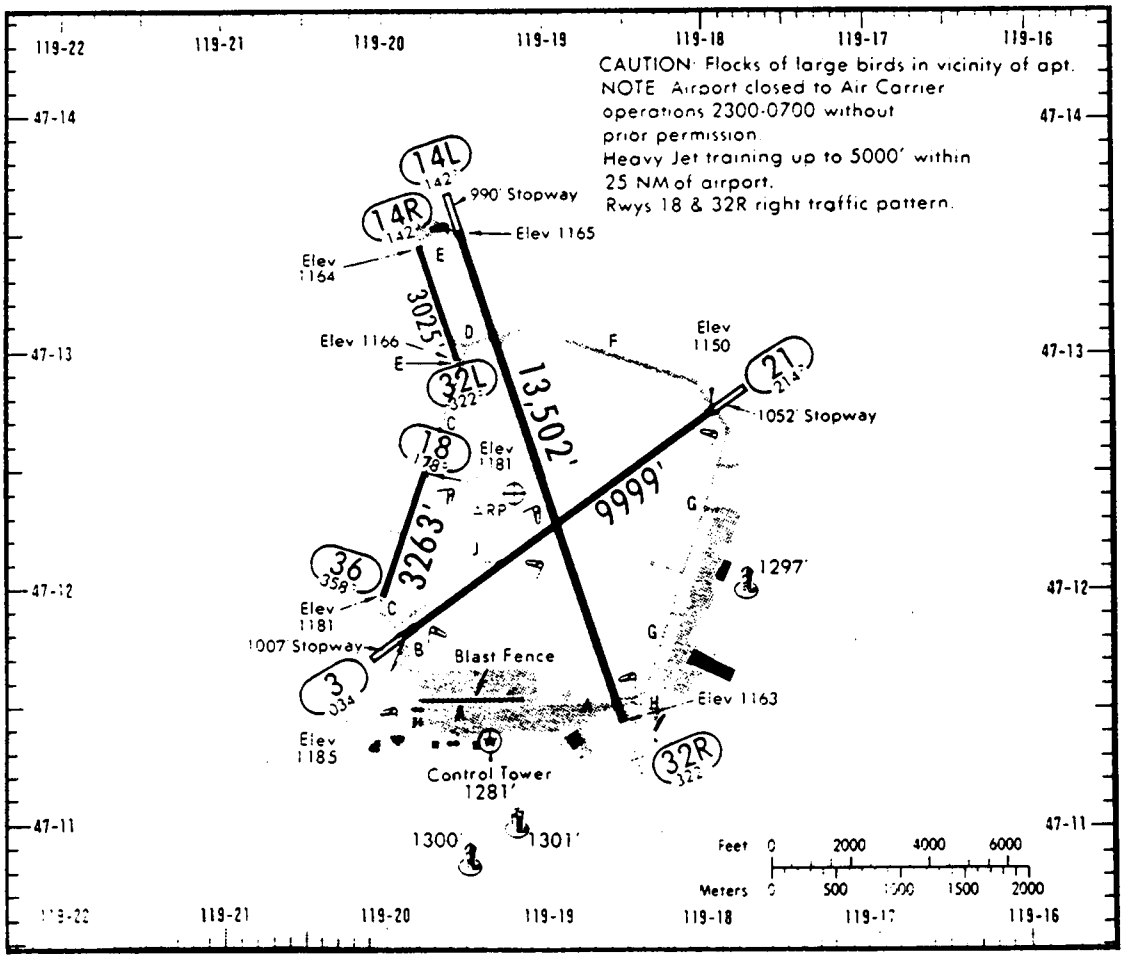
	EXISTING	NEW GENERATION
34	34711	
GTF	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	–	
Total Displays		5

FY 85	CONVERT RVV	R/W 34

MOSES LAKE WA (MHW)

ACE



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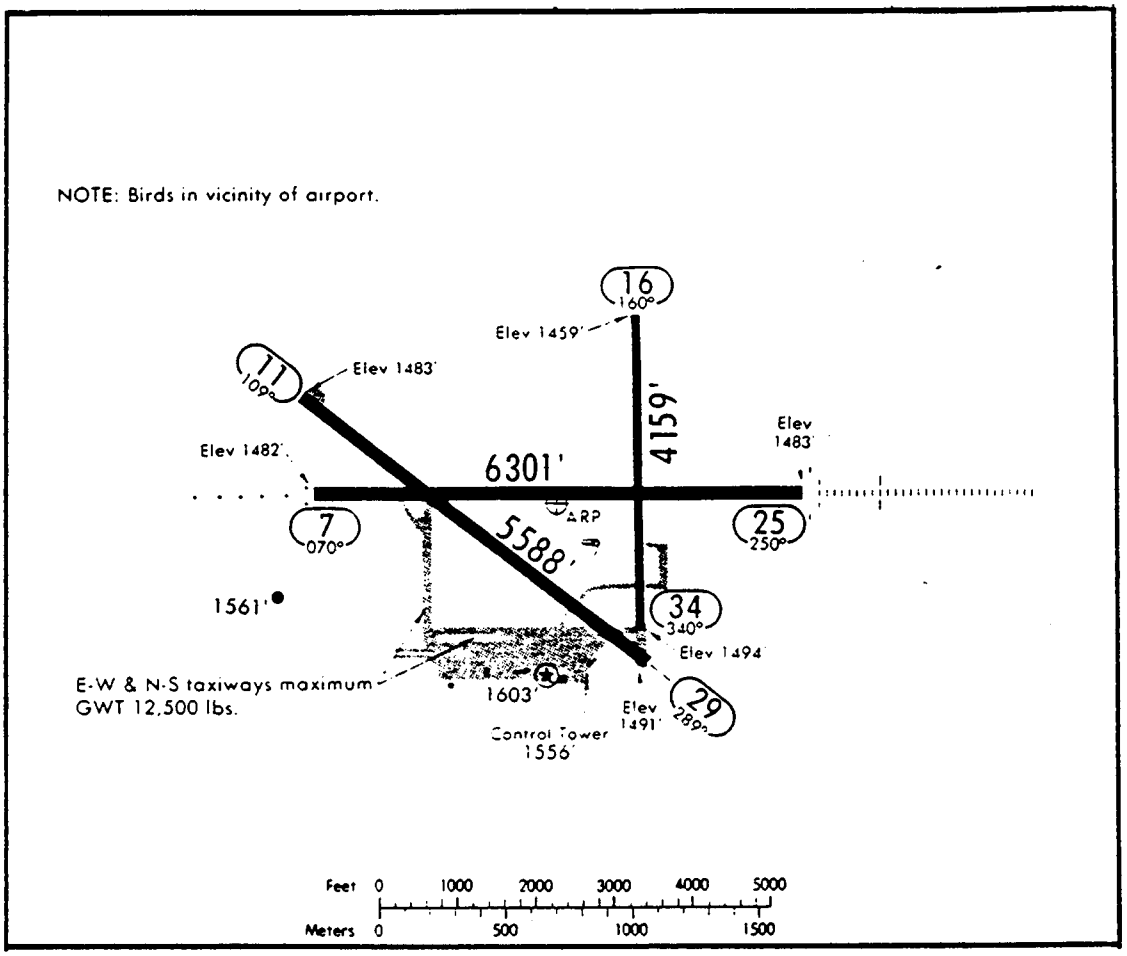
	EXISTING	NEW GENERATION
32R	34711	
MWH	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	CONVERT RVV	R/W 32R

PENDLETON OR (PDT)

ANM



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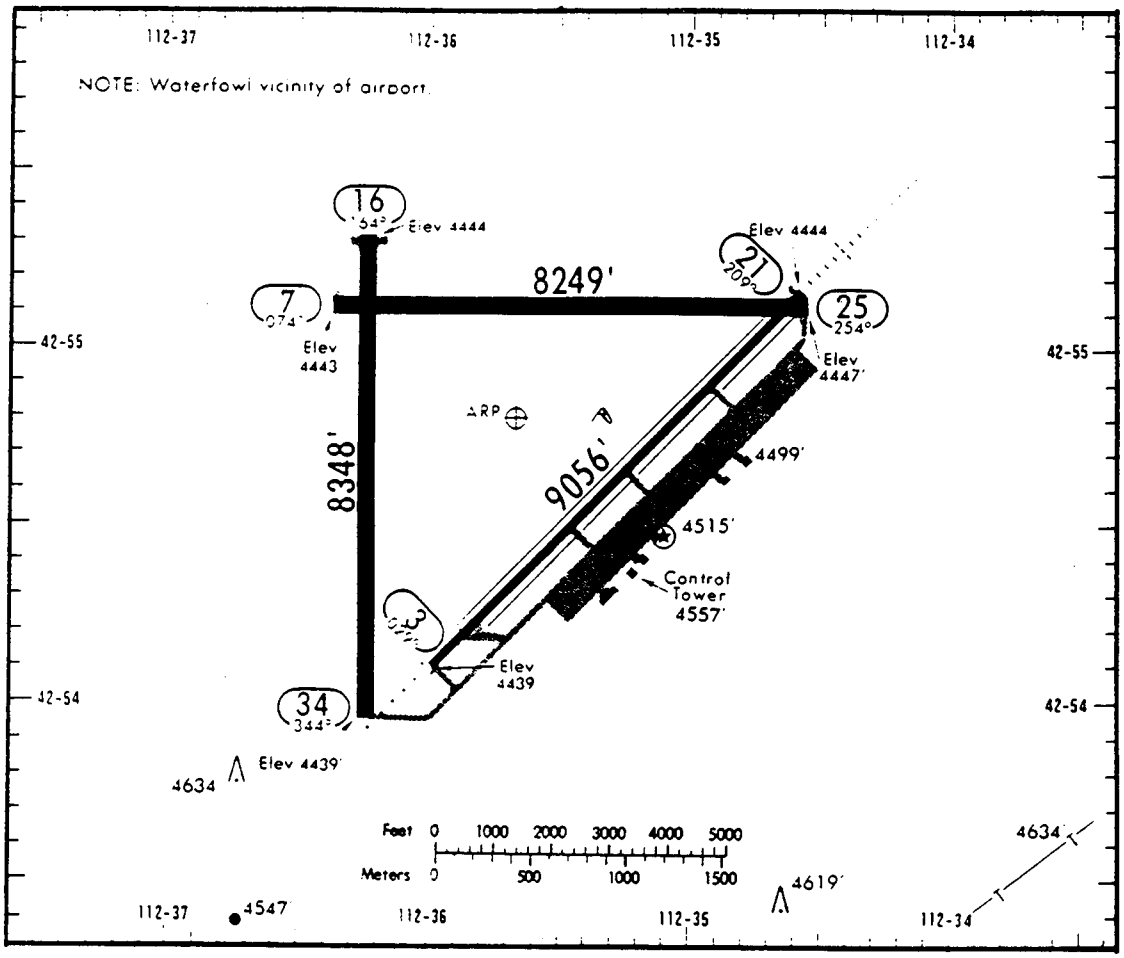
	EXISTING	NEW GENERATION		QTY REQ'D
25	34711	System Elements		QTY REQ'D
PDT	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 85	CONVERT RVV	R/W 25

POCATELLO ID (PIH)

ANM



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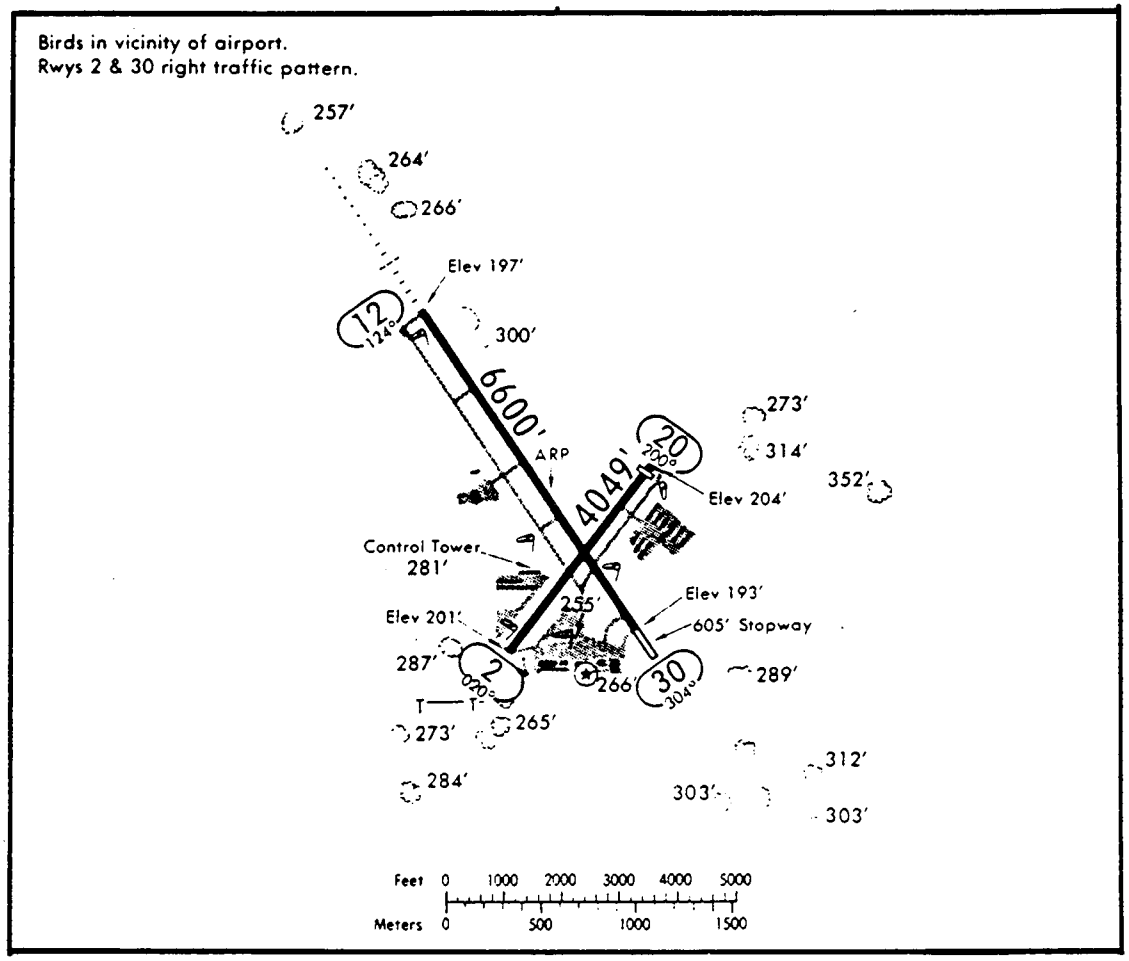
	EXISTING	NEW GENERATION
21	34711	
PIH	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	1	
Other	–	
Total Displays		2

FY 85	CONVERT RVV	R/W 21

HILLSBORO OR (HIO)

ANM



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EXISTING

NONE

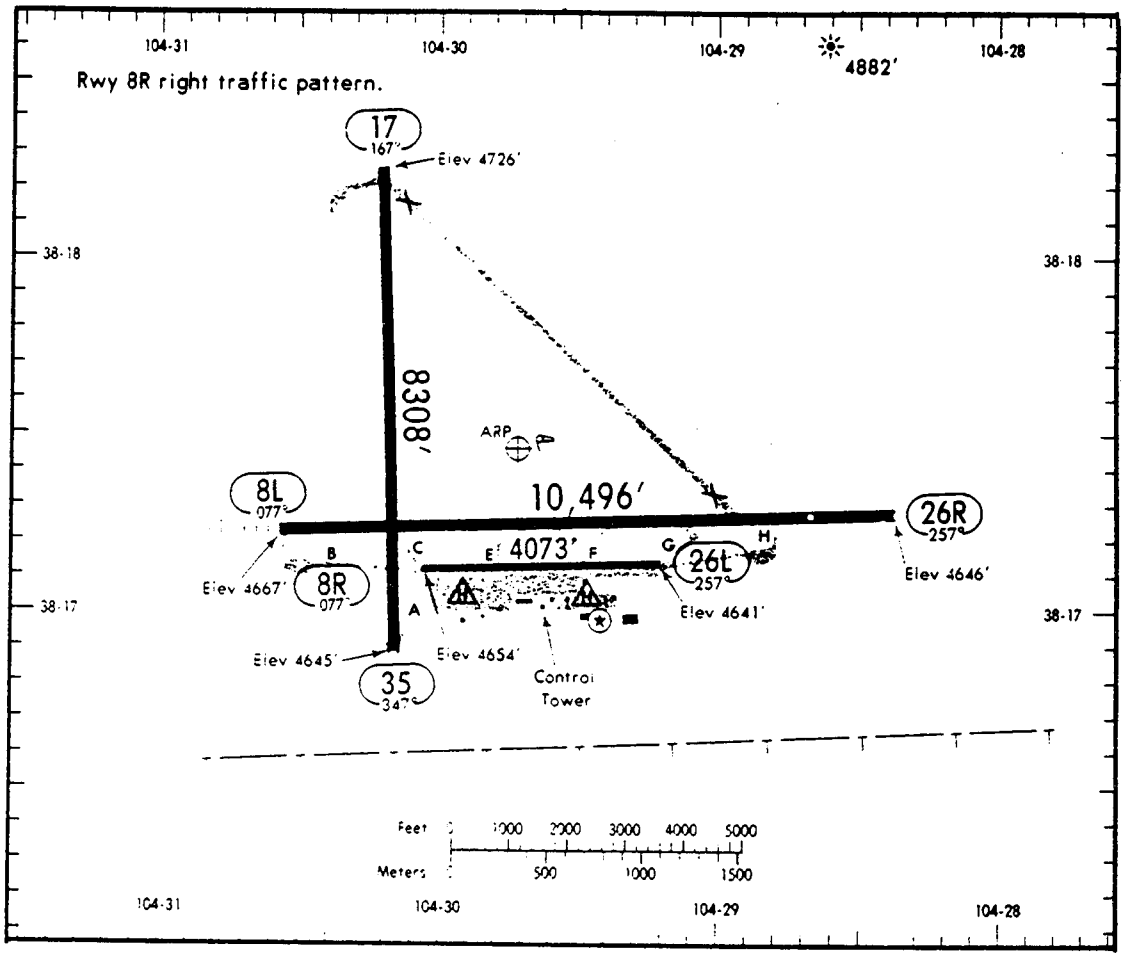
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 86	ESTABLISH	R/W 12

PUEBLO CO (PUB)

ANM



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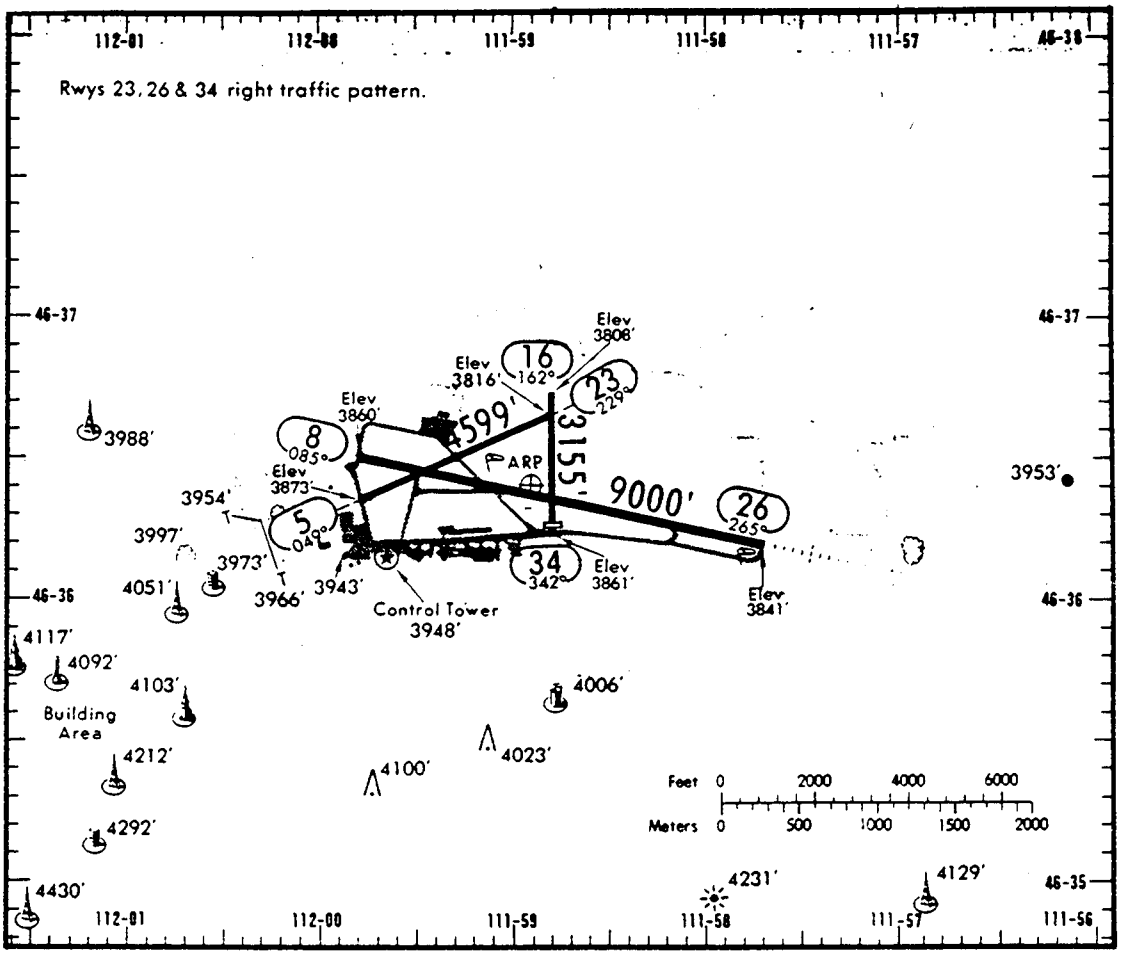
	EXISTING	NEW GENERATION
08L	347AG	
PUB	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	–	
Total Displays		5

FY 86	REPLACE	R/W 08L

HELENA MT (HLN) ANM



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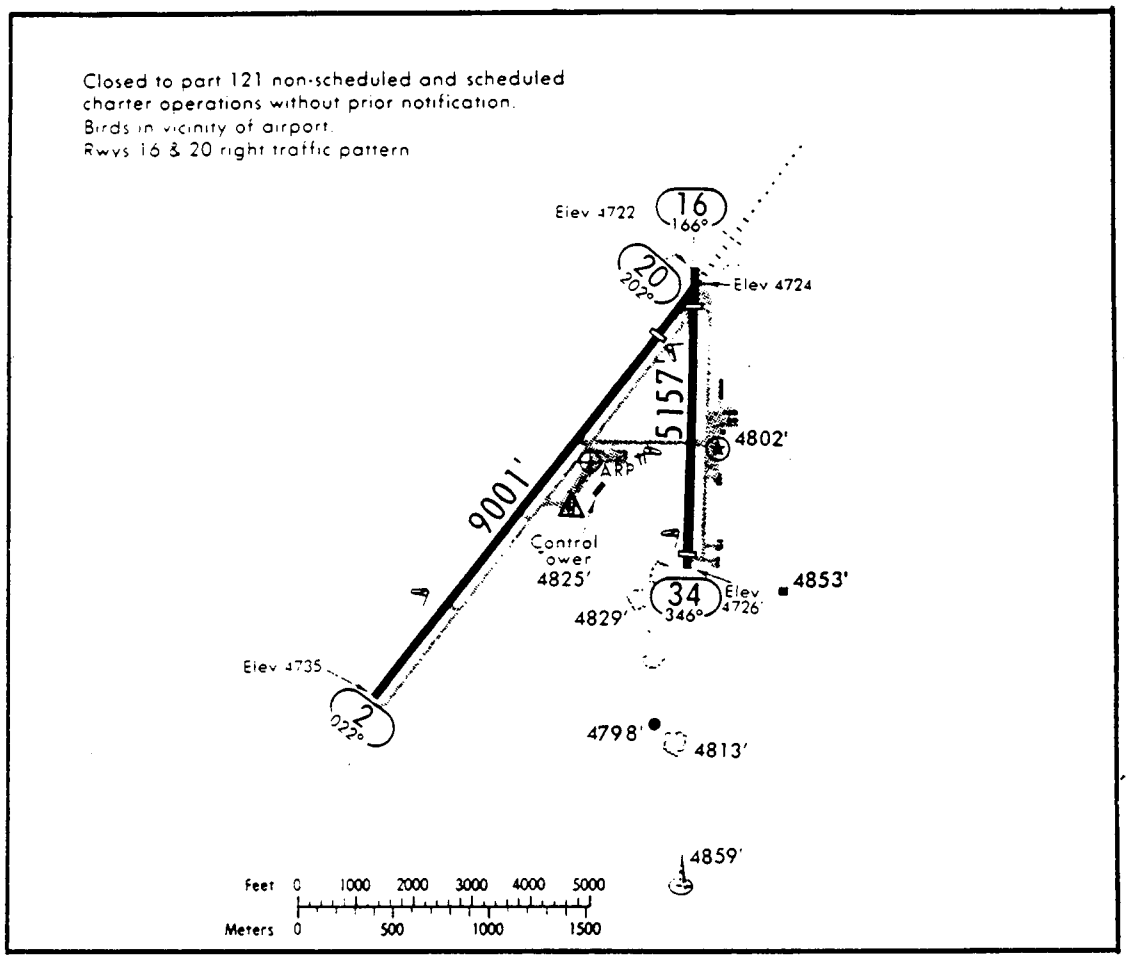
EXISTING	NEW GENERATION	
NONE	System Elements	QTY REQ'D
	Basic	1
	Sensor Packages	–
	RLIM	–
	Displays	
	ATCT 3	
	TRACON –	
	NWS –	
	Other –	
	Total Displays	3

FY 88	ESTABLISH	R/W 26

IDAHO FALLS (IDA)

ANM



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EXISTING

NONE

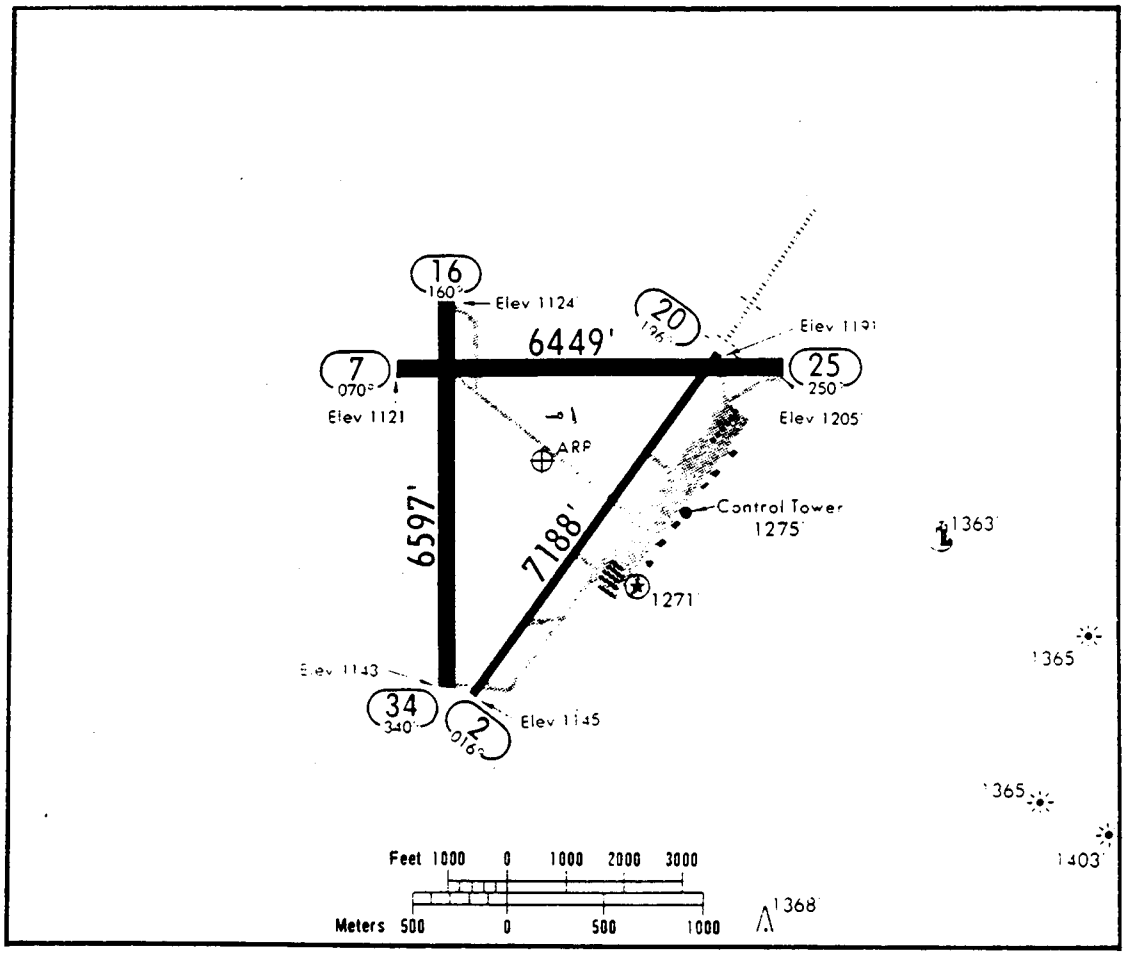
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 88	ESTABLISH	R/W 20

WALLA WALLA WA (ALW)

ANM



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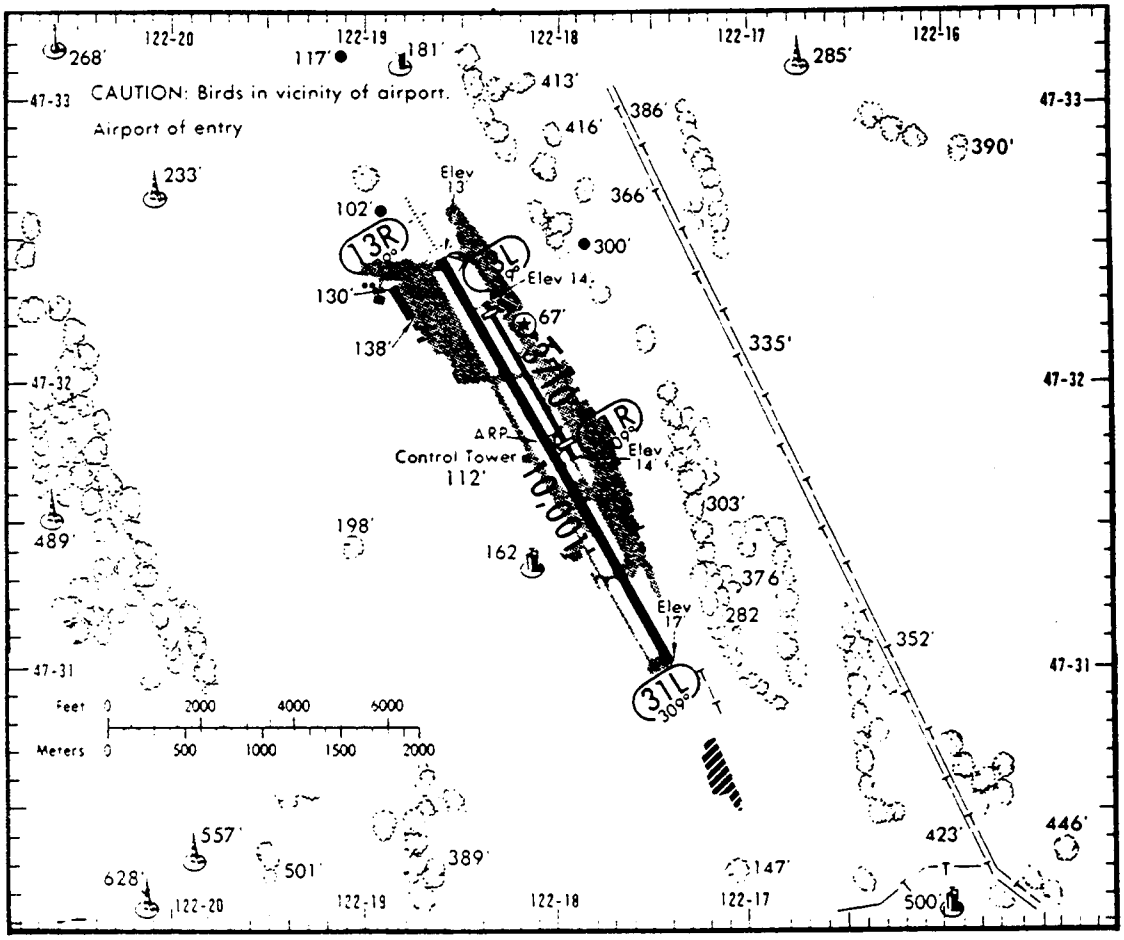
	EXISTING	NEW GENERATION		
20	347AE	System Elements		QTY REQ'D
ALW	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	1	
		Total Displays		2

FY 93	REPLACE	R/W 20

SEATTLE-BOEING WA (BFI)

ANM



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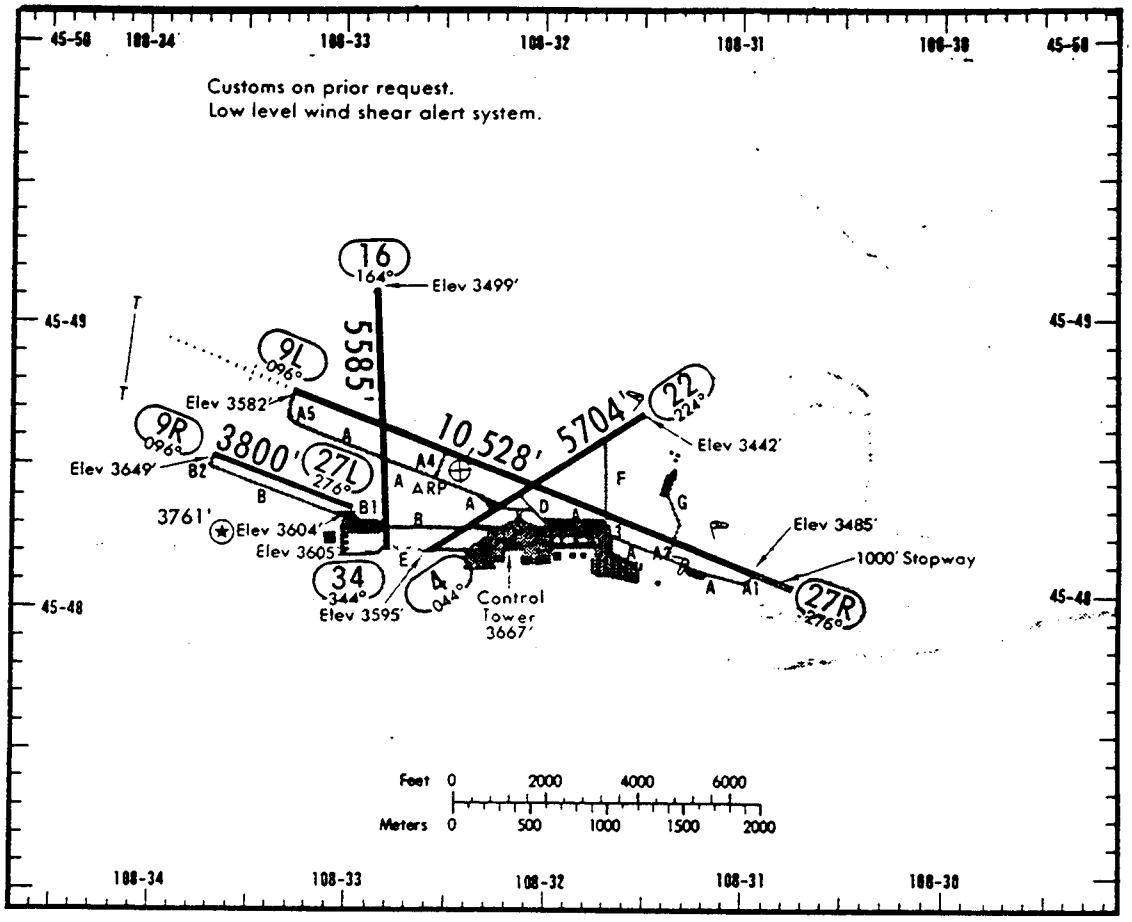
	EXISTING	NEW GENERATION		QTY REQ'D
13R	347AE	System Elements		QTY REQ'D
BFI	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 13R

BILLINGS MT (BIL) ANM



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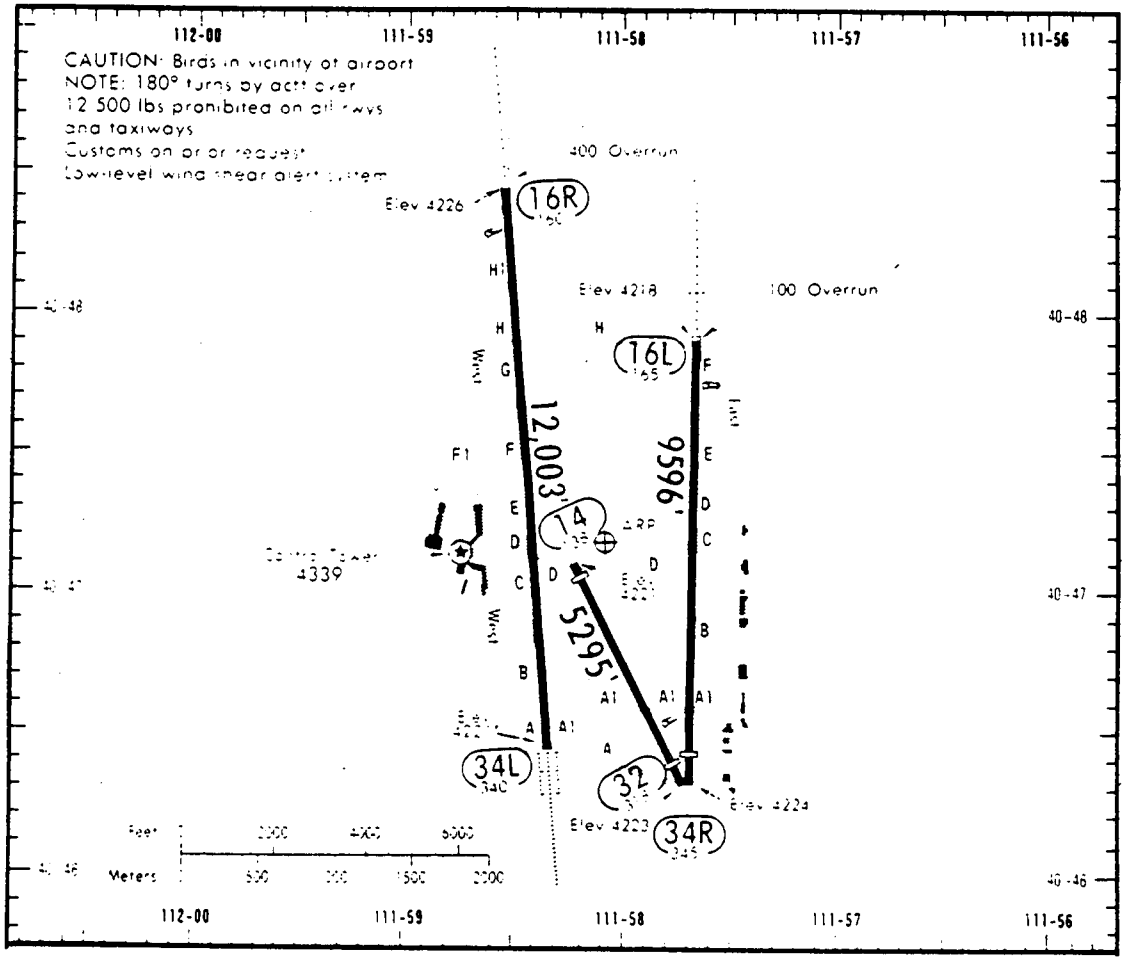
	EXISTING	NEW GENERATION
09L	347AE	
BIL	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	–	
Total Displays		5

FY 93	REPLACE	R/W 09L

SALT LAKE CITY UT (SLC)

ANM



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	EXISTING
16L	347AE
BNT	TD
34L	347AE
SLC	TD
SLCA	MP
SLCB	RO

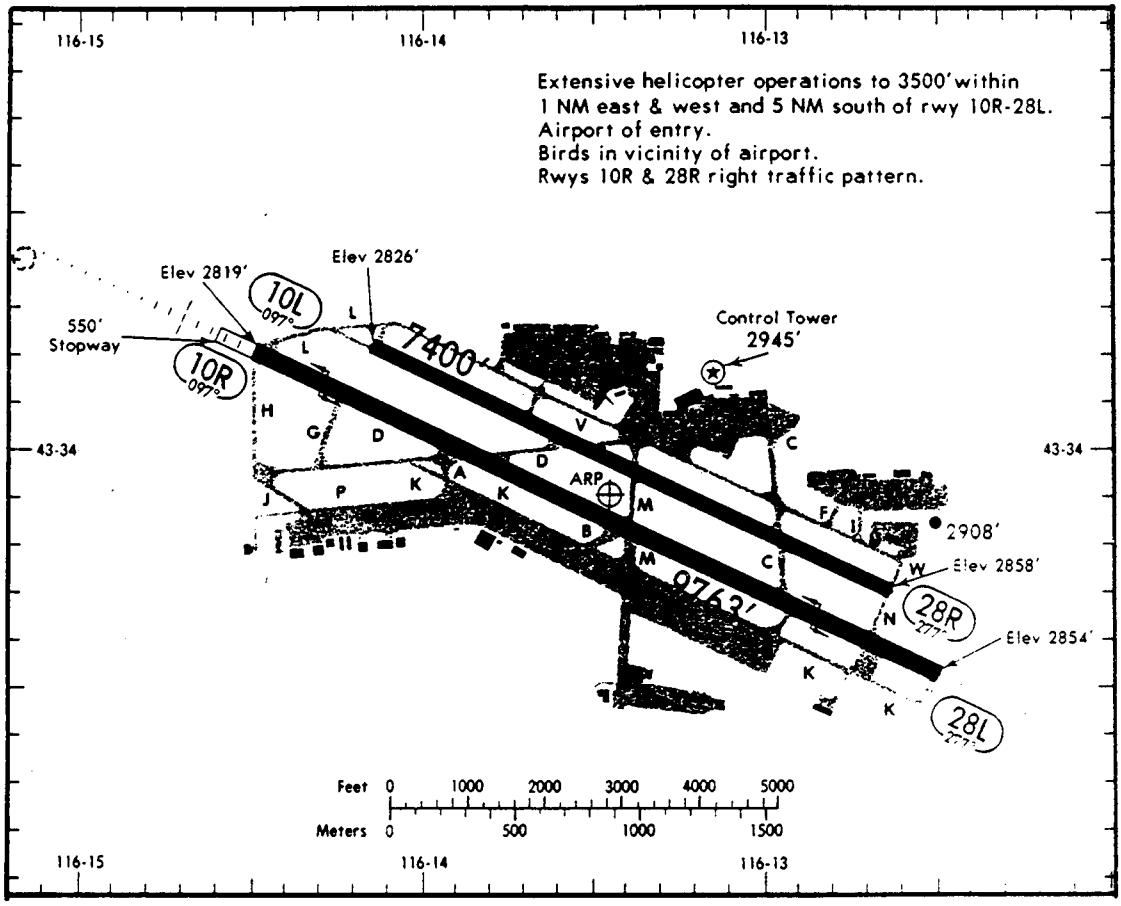
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	3	
TRACON	4	
NWS	1	
Other	2	
Total Displays		10

FY 93	REPLACE	R/W 34L, 16L

BOISE ID (BOI)

ANM



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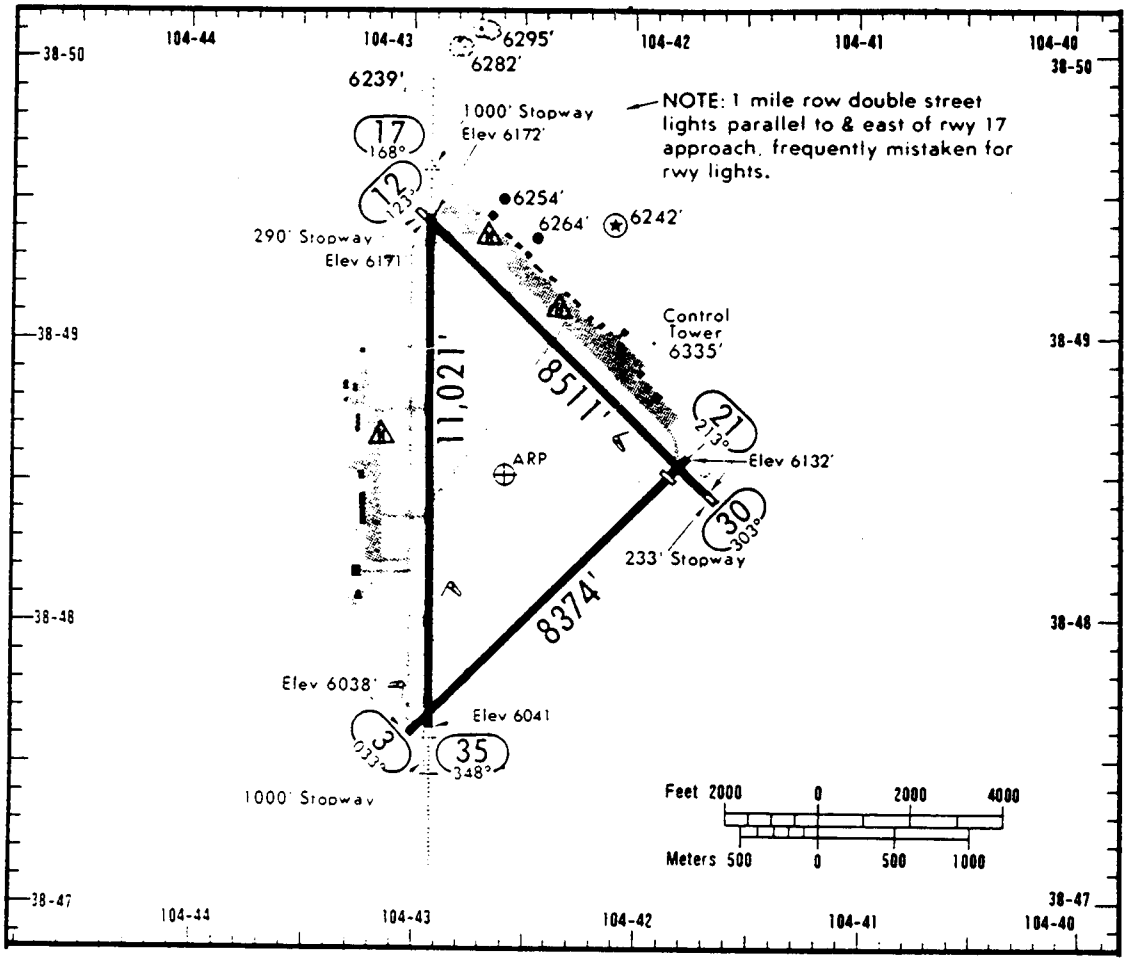
	EXISTING	NEW GENERATION		QTY REQ'D
10R	347AE	System Elements		QTY REQ'D
BOI	TD	Basic		1
		Sensor Packages		1
28R	347AE	RLIM		1
BOI	RO	Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 10R, 28R

COLORADO SPRINGS CO (COS)

ANM



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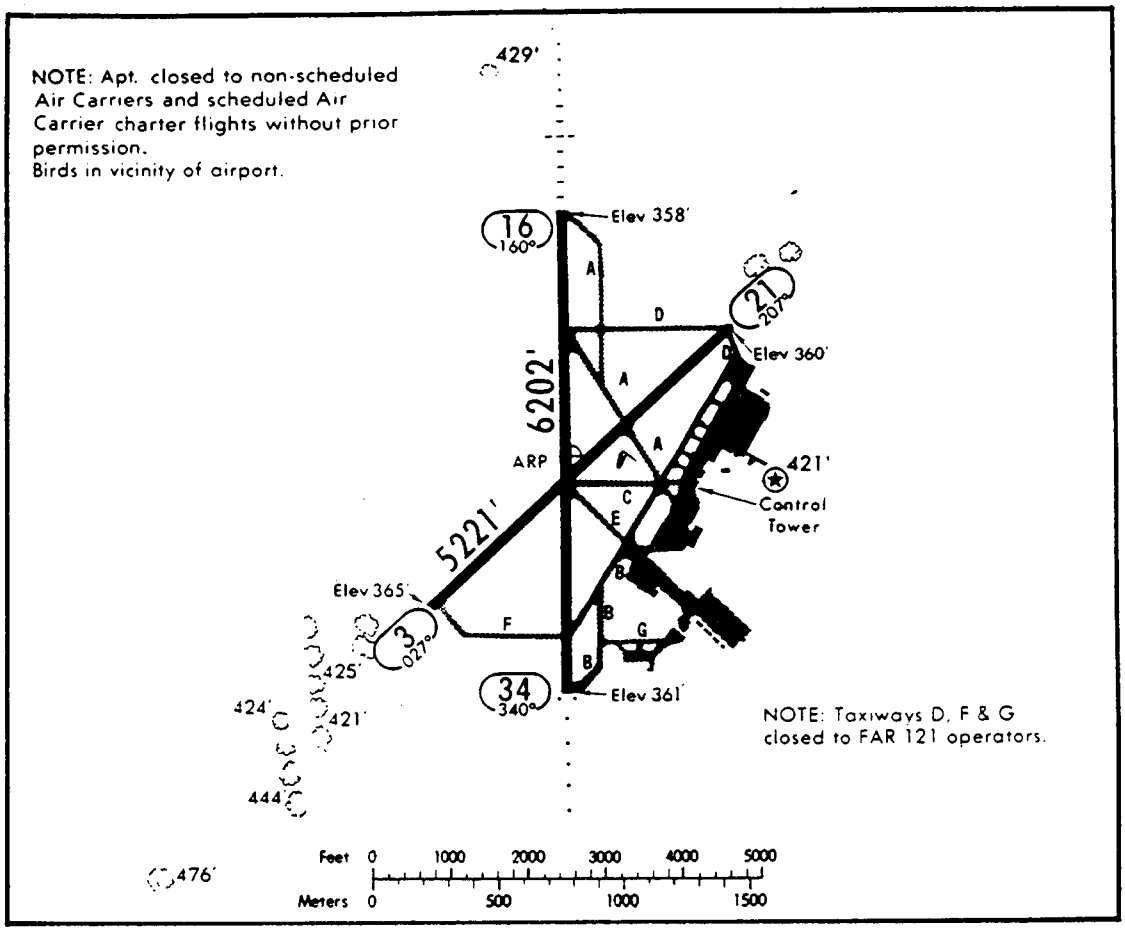
	EXISTING	NEW GENERATION
35	347AE	
COS	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	–	
Total Displays		5

FY 93	REPLACE	R/W 35

EUGENE OR (EUG)

ANM



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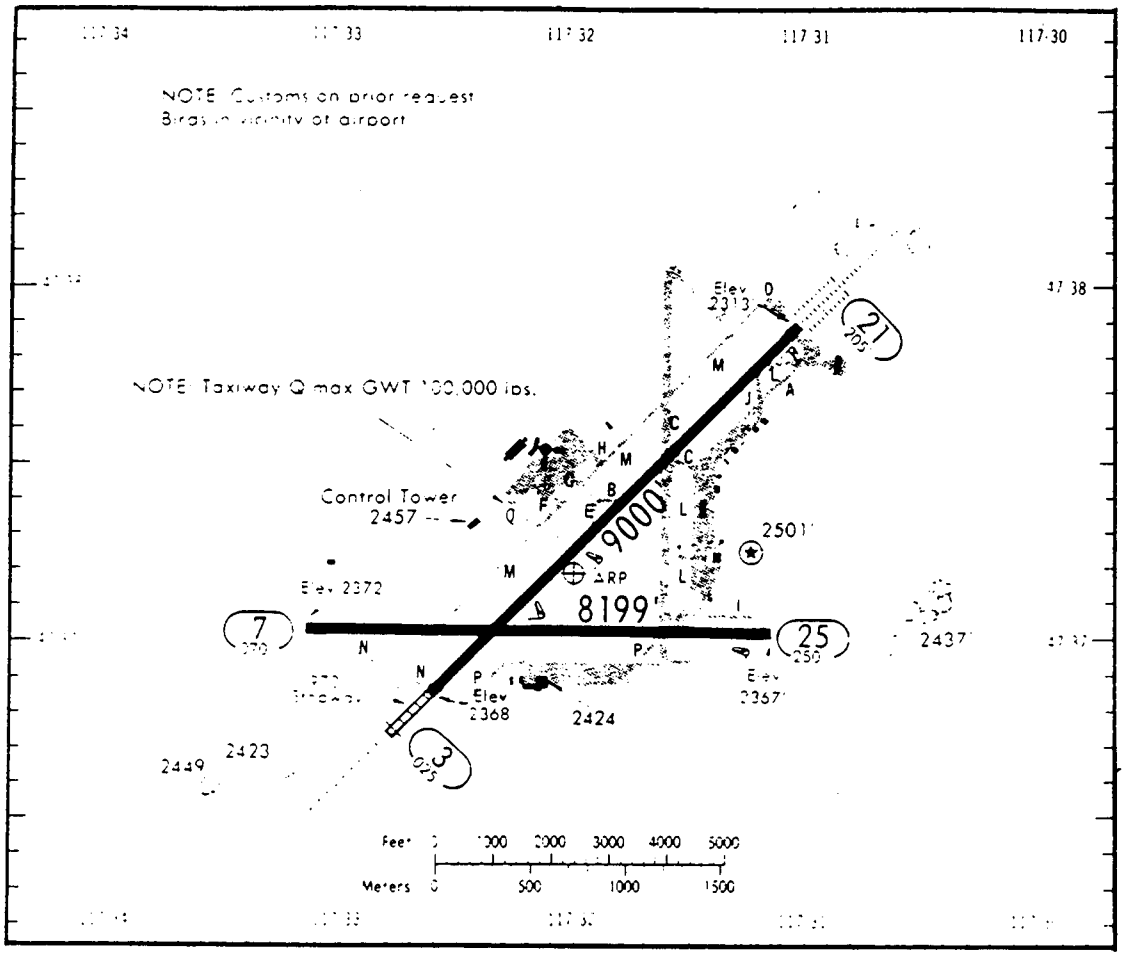
	EXISTING	NEW GENERATION		
16	347AE	System Elements		QTY REQ'D
EUD	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 16

SPOKANE WA (GEG)

ANM



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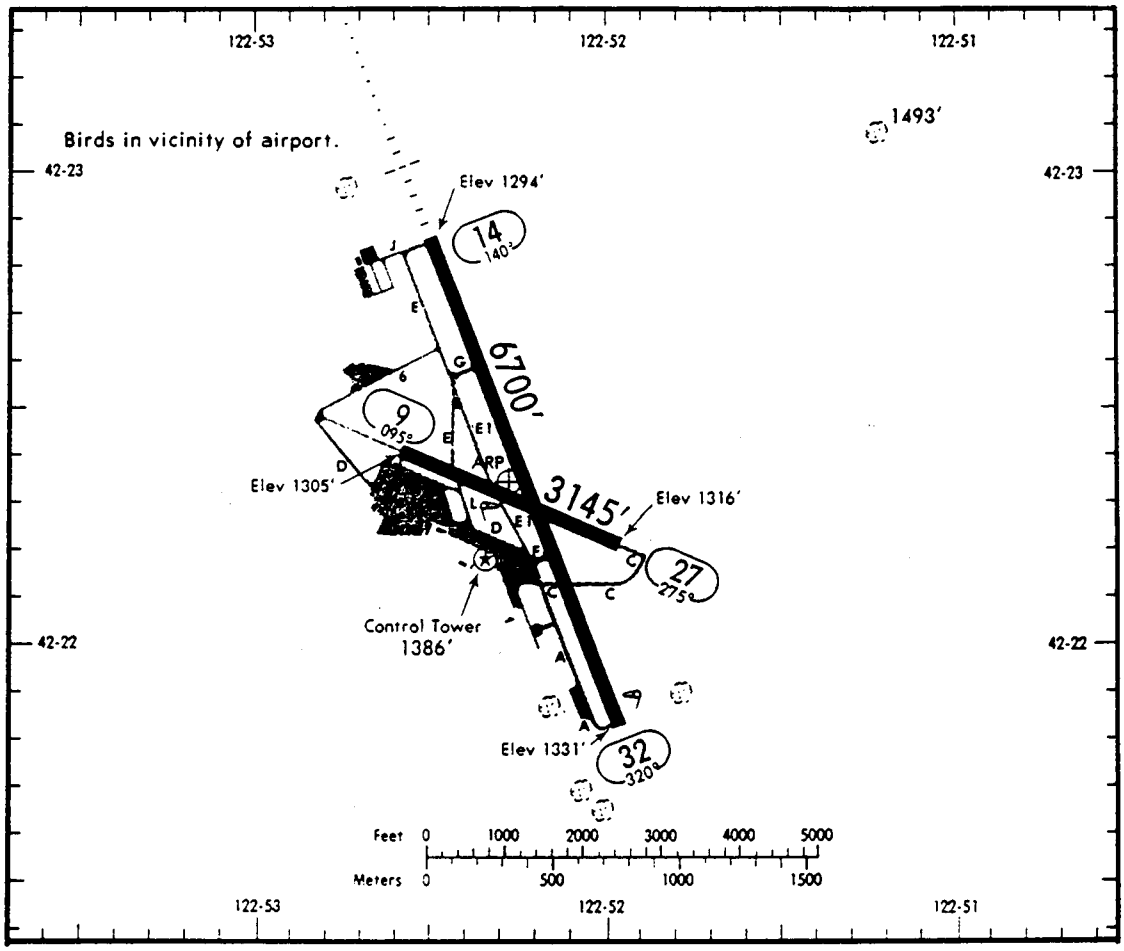
	EXISTING	NEW GENERATION		
21	347AE	System Elements		QTY REQ'D
GEG	TD	Basic		1
GEGA	MP	Sensor Packages		2
GEGB	RO	RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 21

MEDFORD OR (MFR)

ANM



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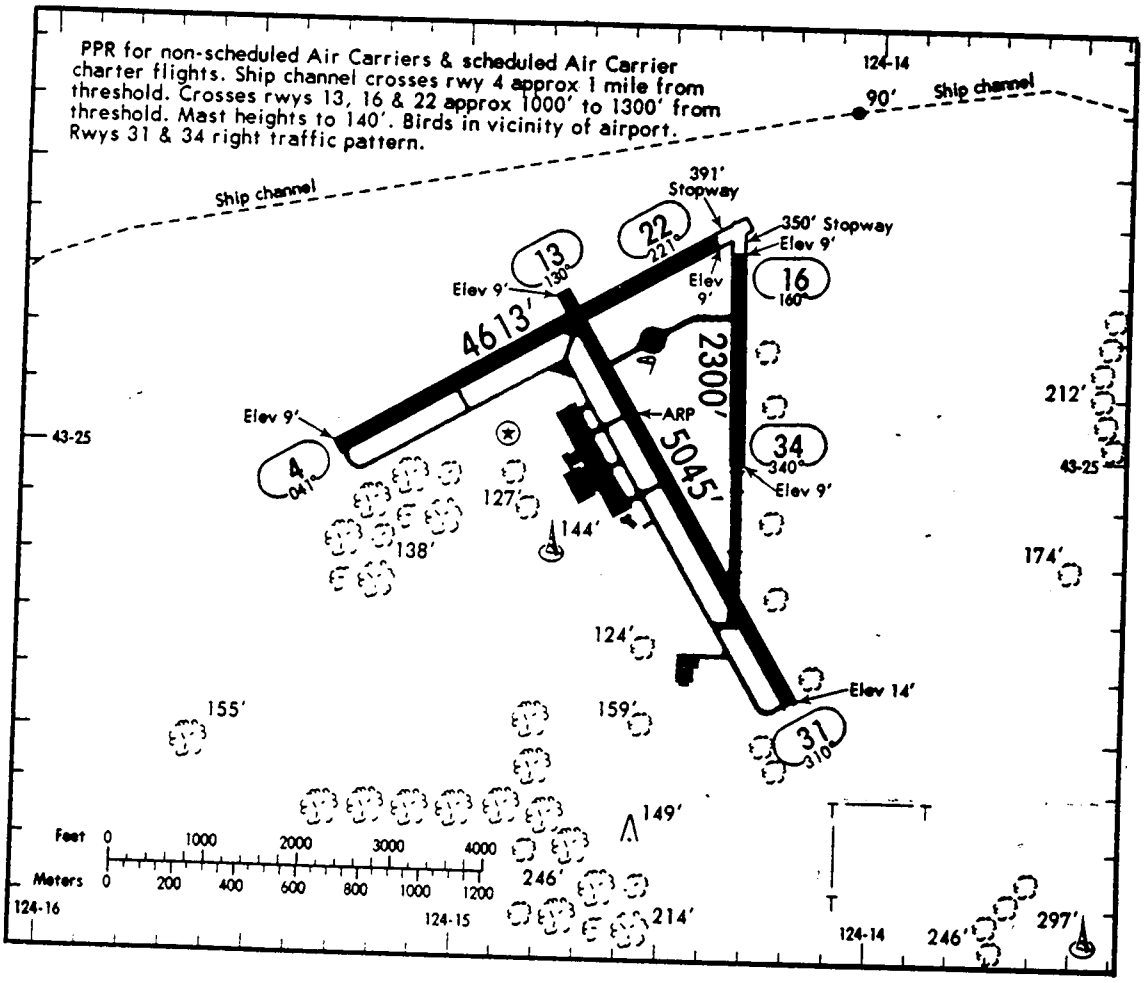
	EXISTING	NEW GENERATION		
14	347AE	System Elements		QTY REQ'D
MFR	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 14

NORTH BEND OR (OTH)

ANM



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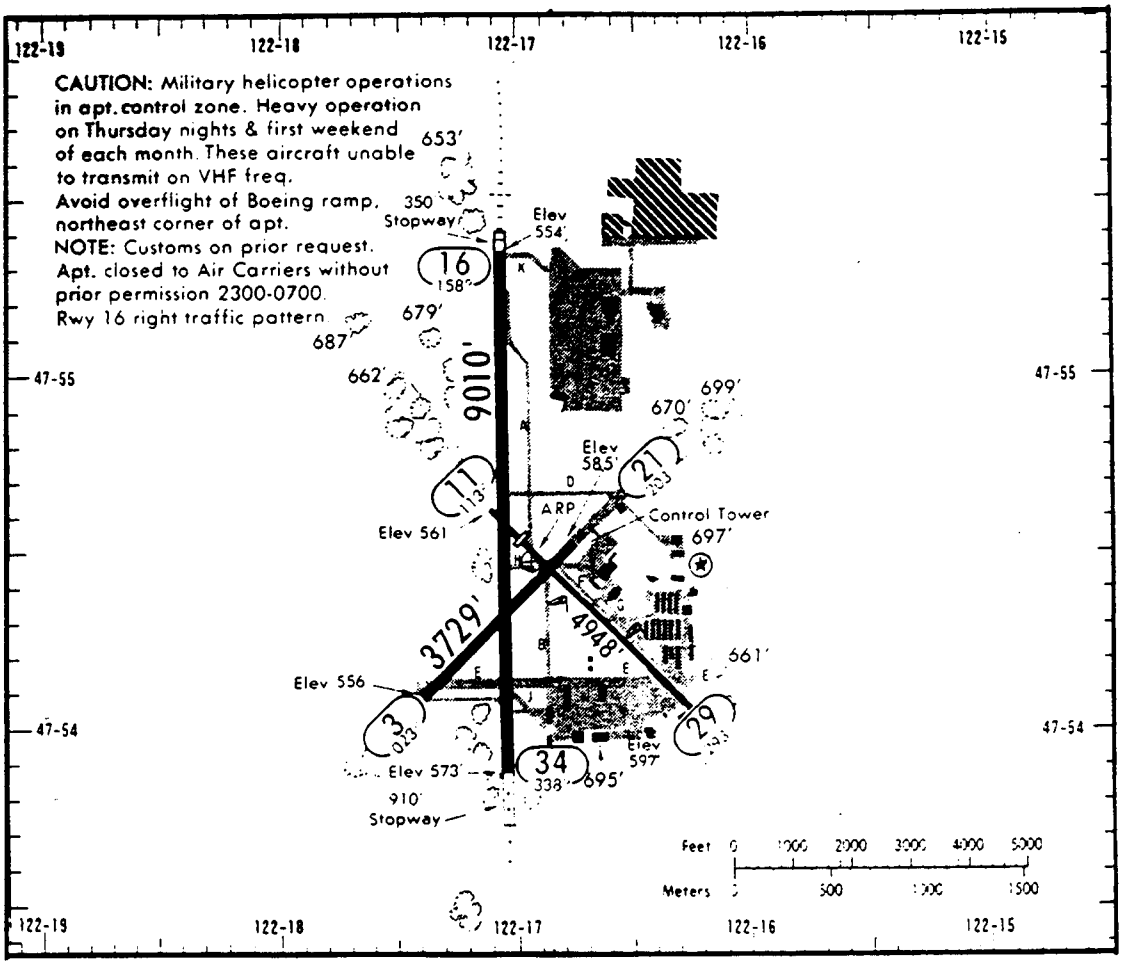
	EXISTING	NEW GENERATION
04	347AE	
OTH	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	–	
TRACON	–	
NWS	–	
Other	1	
Total Displays		1

FY 93	REPLACE	R/W 04

EVERETT WA (PAE)

ANM



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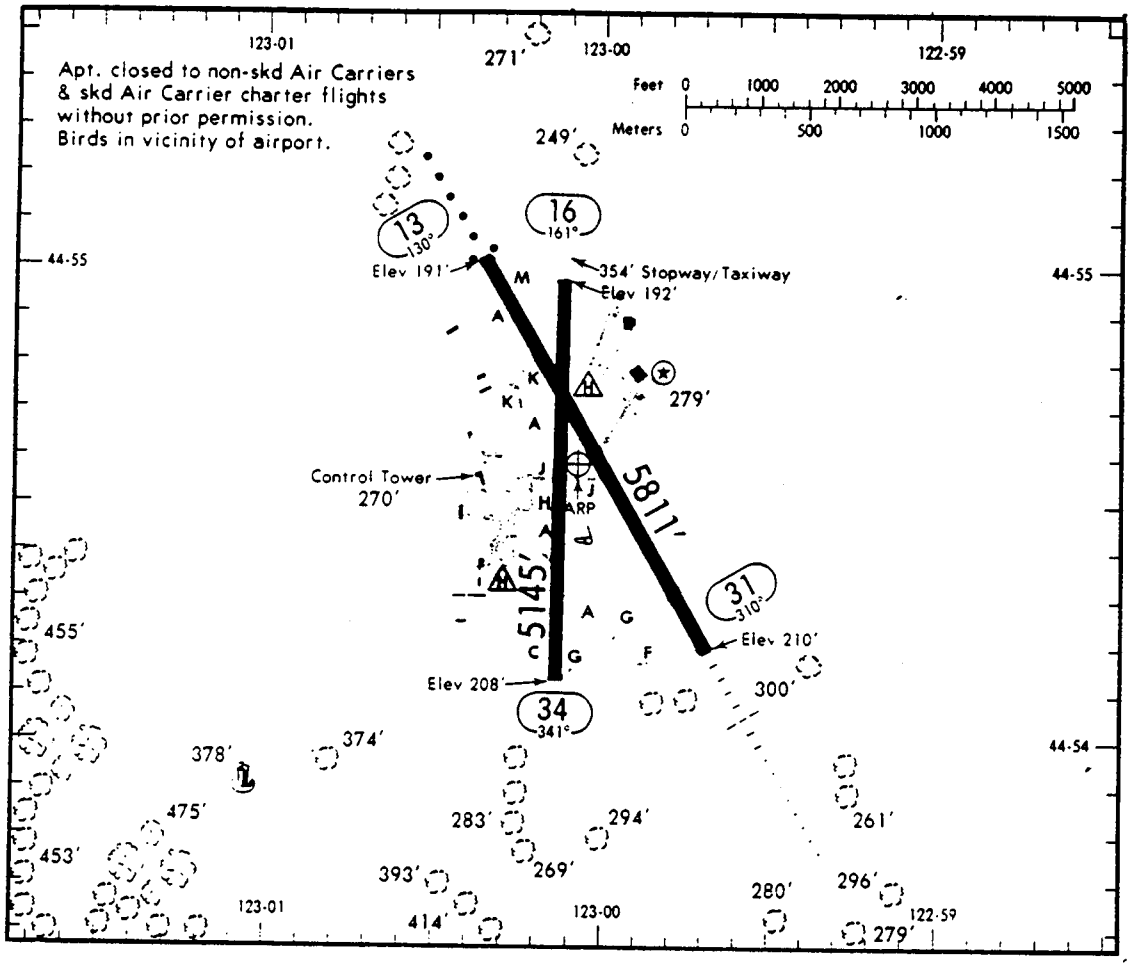
	EXISTING	NEW GENERATION	
16	347AE	System Elements	QTY REQ'D
PAE	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT 3	
		TRACON –	
		NWS –	
		Other –	
		Total Displays	3

FY 93	REPLACE	R/W 16

SALEM OR (SLE)

ANM



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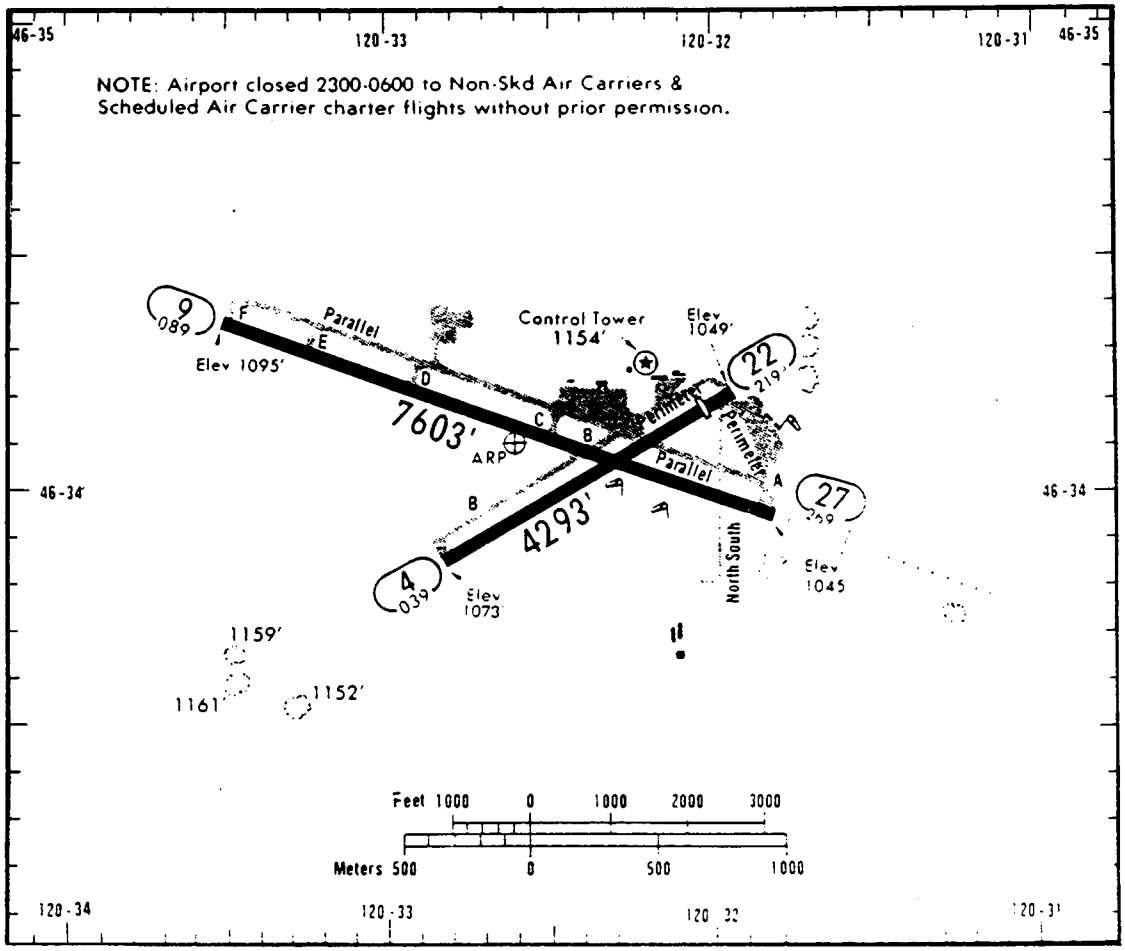
	EXISTING	NEW GENERATION	
31	347AE	System Elements	QTY REQ'D
SLE	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT –	
		TRACON –	
		NWS –	
		Other –	
		Total Displays	0

FY 93	REPLACE	R/W 31

YAKIMA WA (YKM)

ANM



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	EXISTING	NEW GENERATION		
27	347AE	System Elements		QTY REQ'D
YKM	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 27

APPENDIX 7. ASO SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO (AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

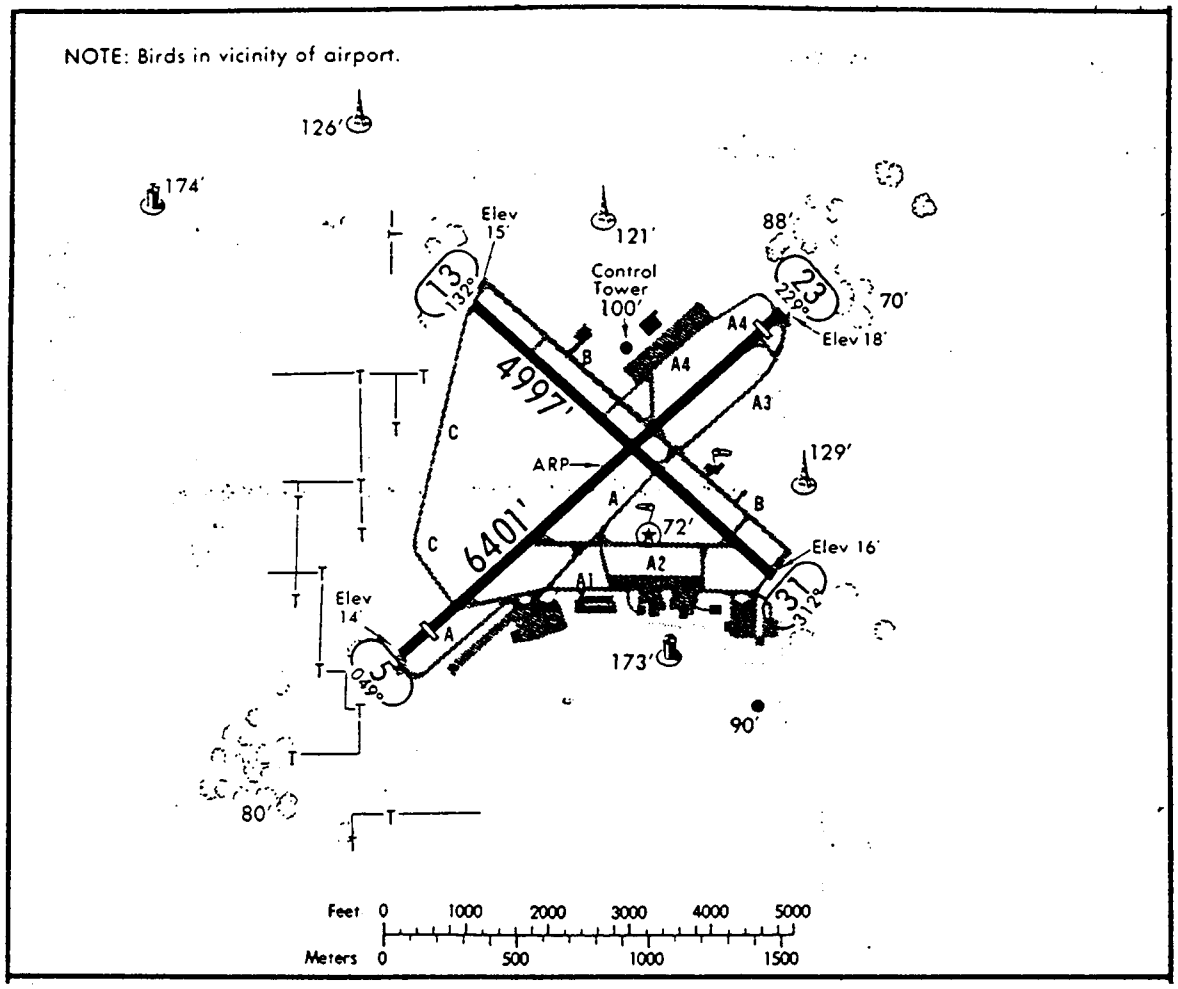
NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

FORT MYERS FLA (FMY)

ASO



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EXISTING

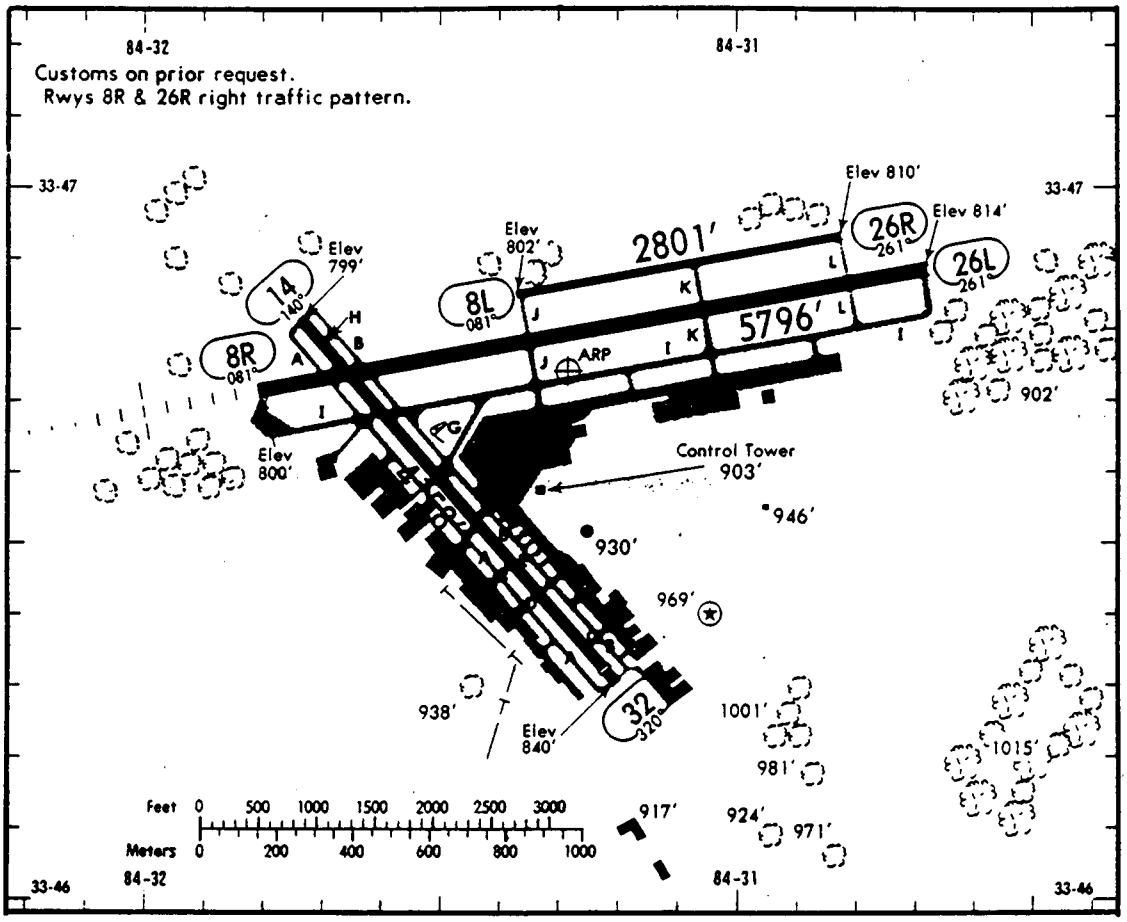
NONE

NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 05

ATLANTA-FULTON GA (FTY) ASO



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EXISTING

NONE

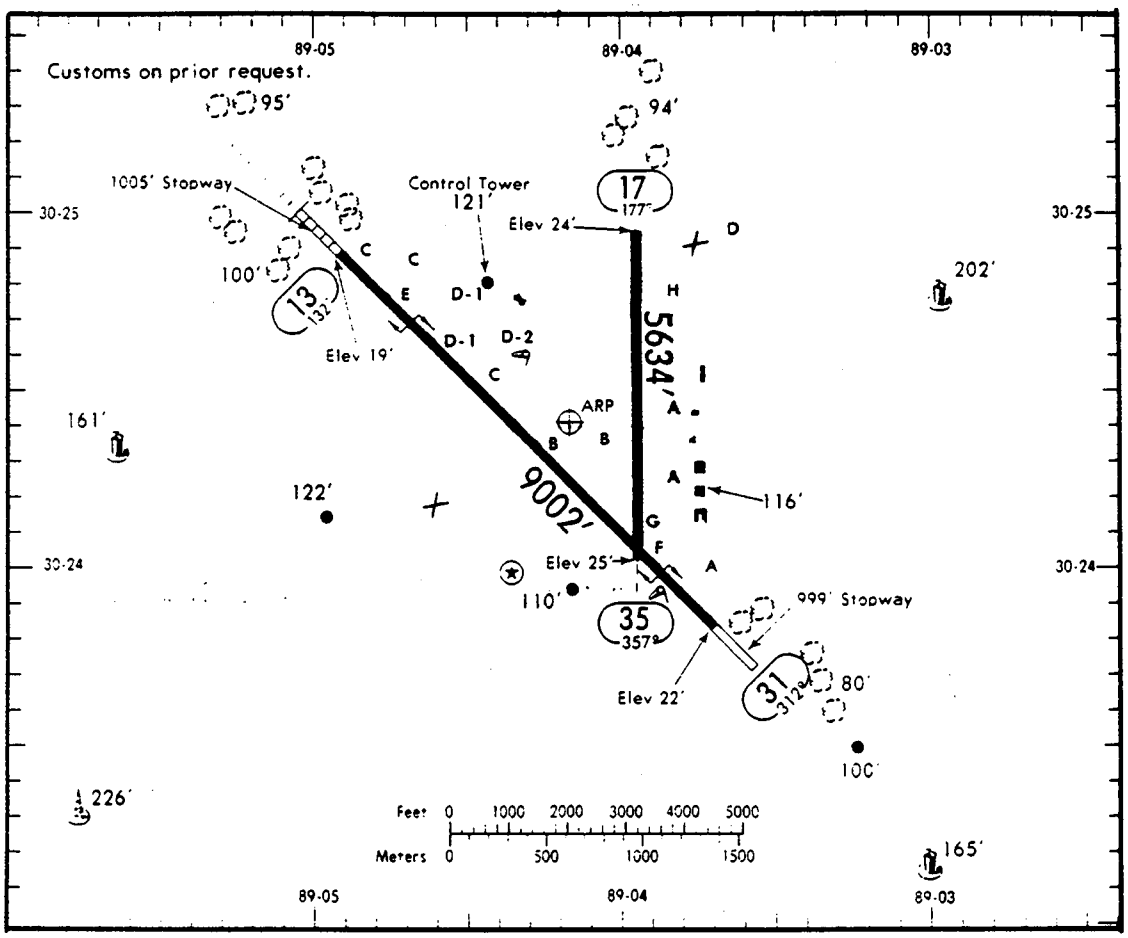
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 08

GULFPORT MS (GPT)

ASO



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EXISTING

NONE

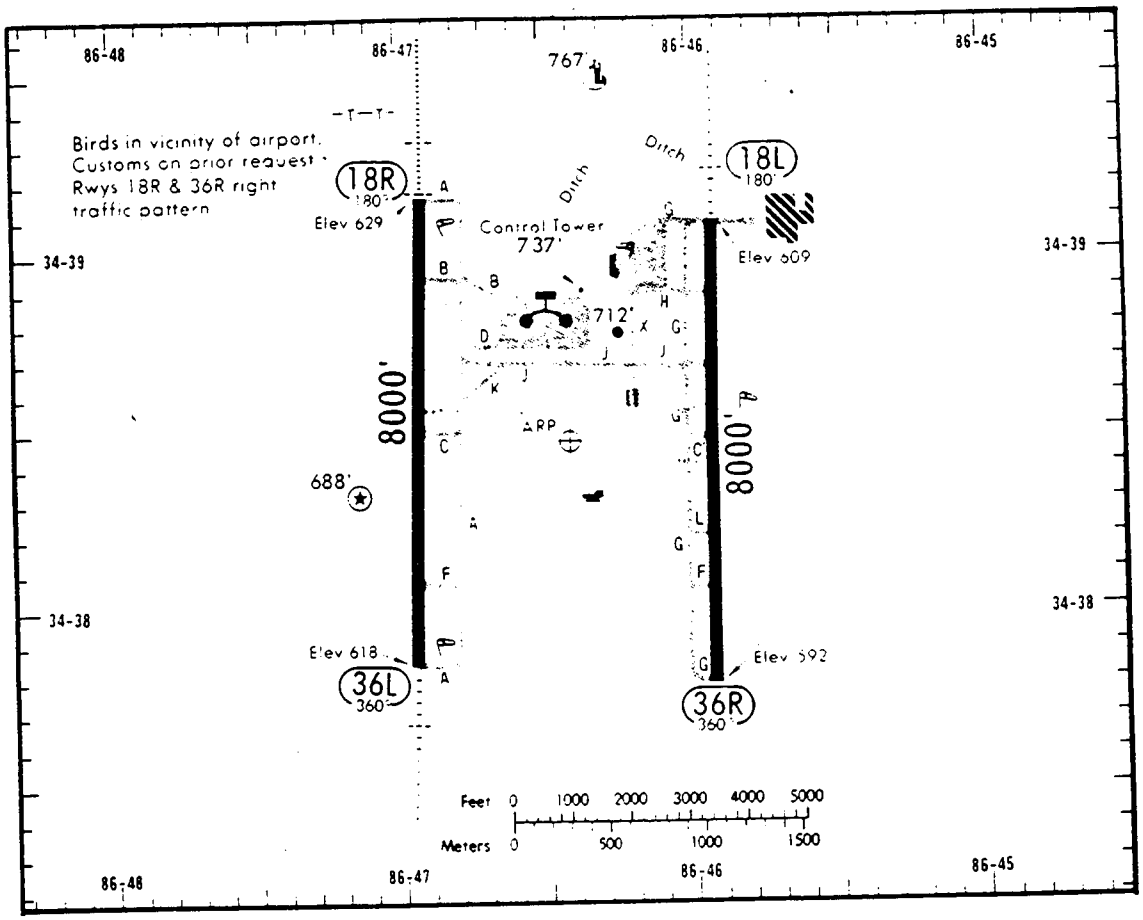
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 13
FY 85	ESTABLISH	R/W 31

ASO

HUNTSVILLE AL (HSV)



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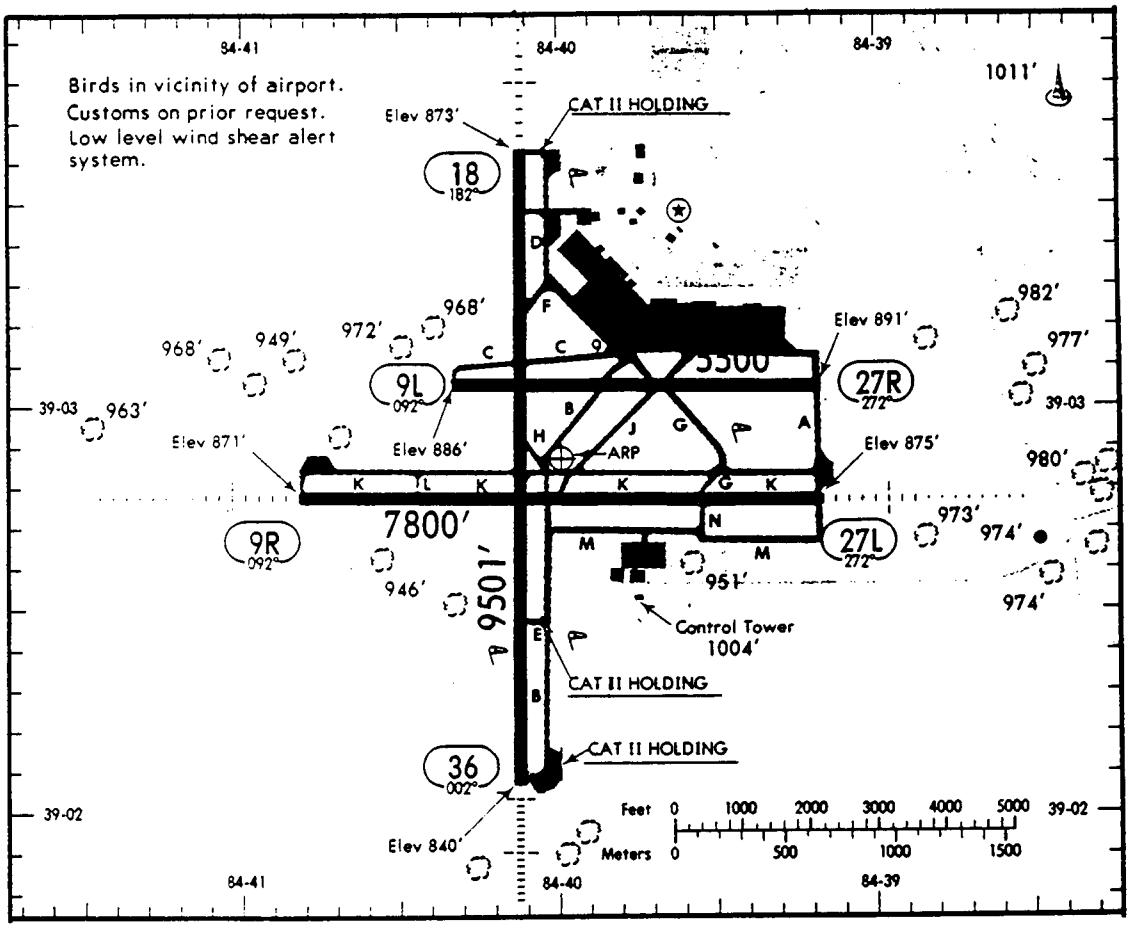
	EXISTING	NEW GENERATION
18R	347AC	
HSV	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		1
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	–	
Total Displays		4

FY 85	ESTABLISH	R/W 18L
FY 85	REPLACE	R/W 18R

COVINGTON KY (CVG)

ASO



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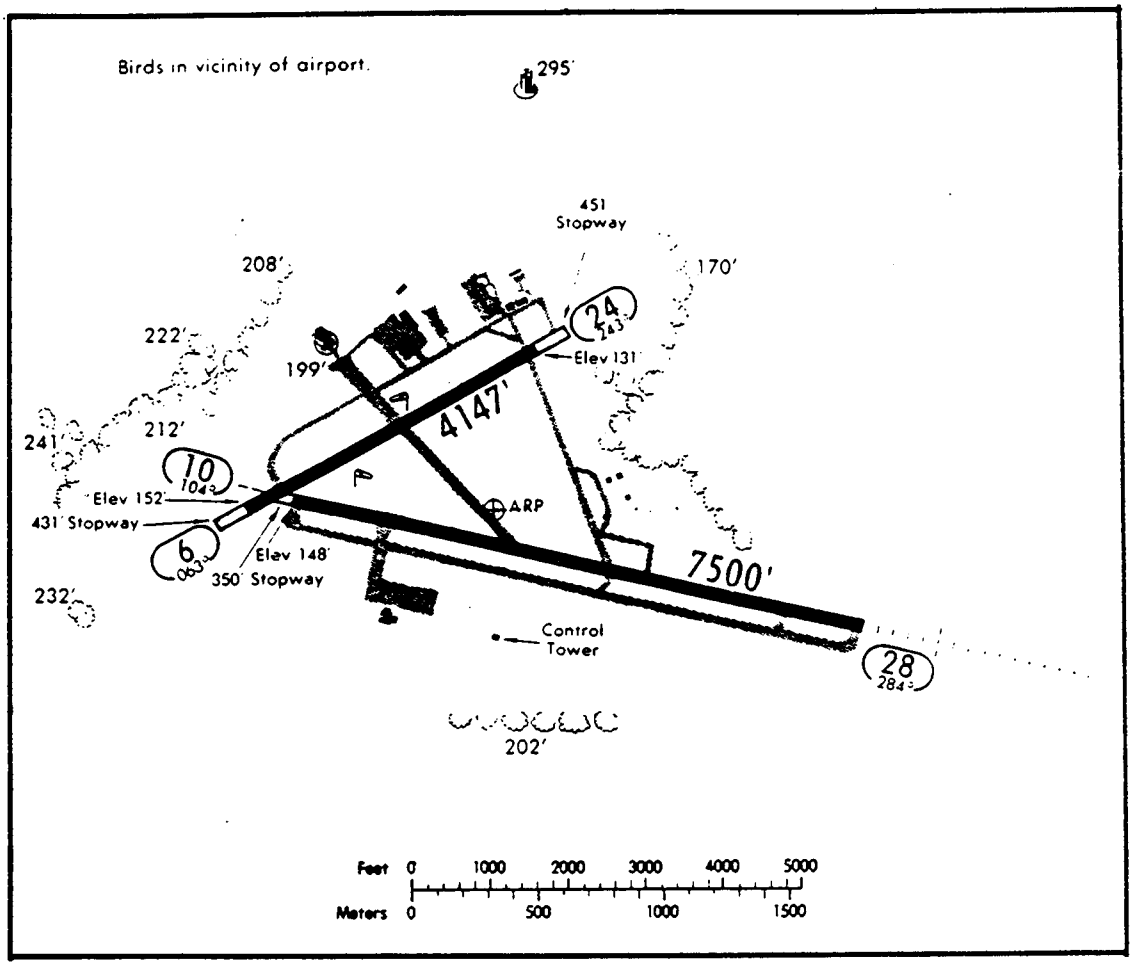
EXISTING		NEW GENERATION		
36	347AE	System Elements		QTY REQ'D
CVG	TD	Basic		1
CVGA	MP	Sensor Packages		4
		RLIM		1
18	347AE	Displays		
		ATCT	2	
SIC	TD	TRACON	6	
		NWS	1	
		Other	–	
		Total Displays		9

FY 85	ESTABLISH	R/W 09R, 27L

GAINSVILLE FLA (GNV)

ASO



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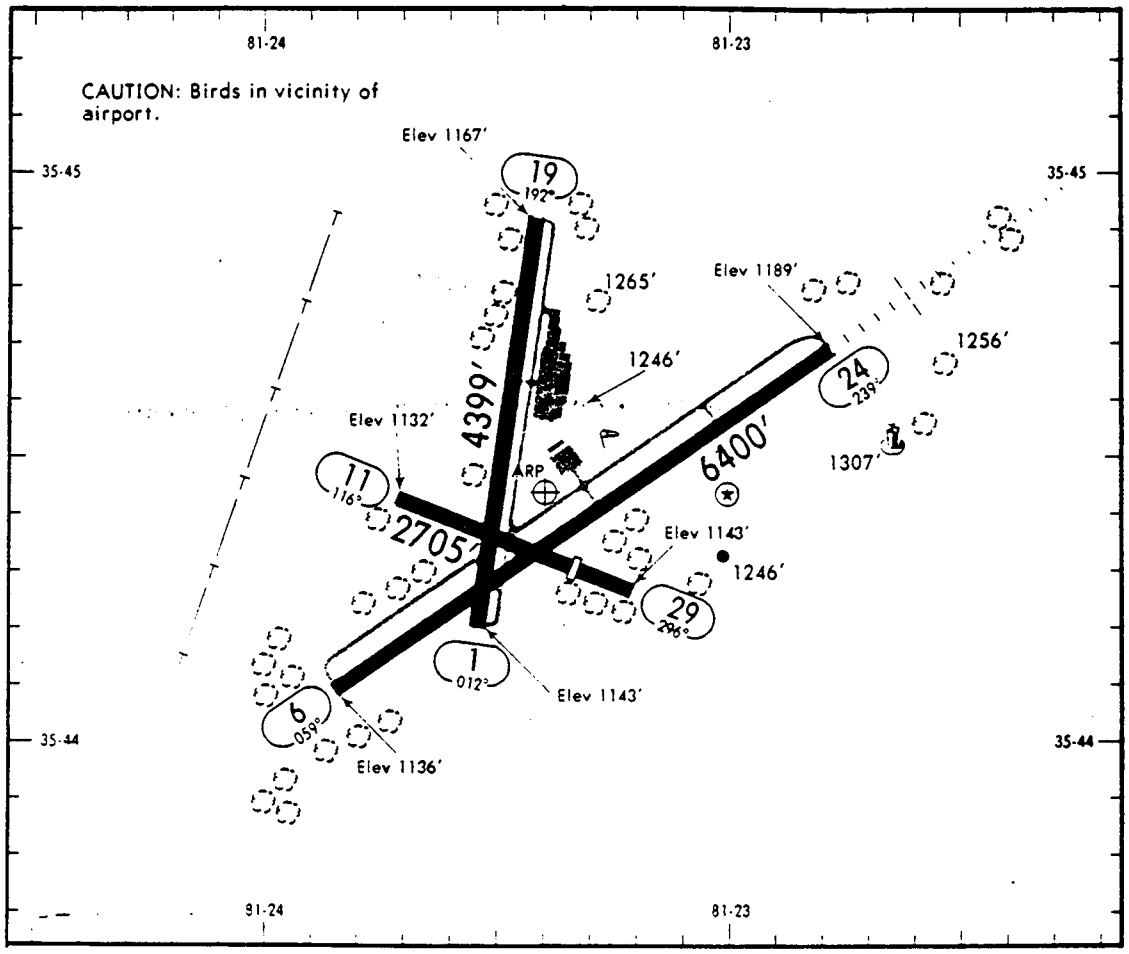
EXISTING	NEW GENERATION	
NONE	System Elements	QTY REQ'D
	Basic	1
	Sensor Packages	–
	RLIM	–
	Displays	
	ATCT 2	
	TRACON –	
	NWS –	
	Other –	
	Total Displays	2

FY 85	ESTABLISH	R/W 28

HICKORY NC (HKY)

ASO



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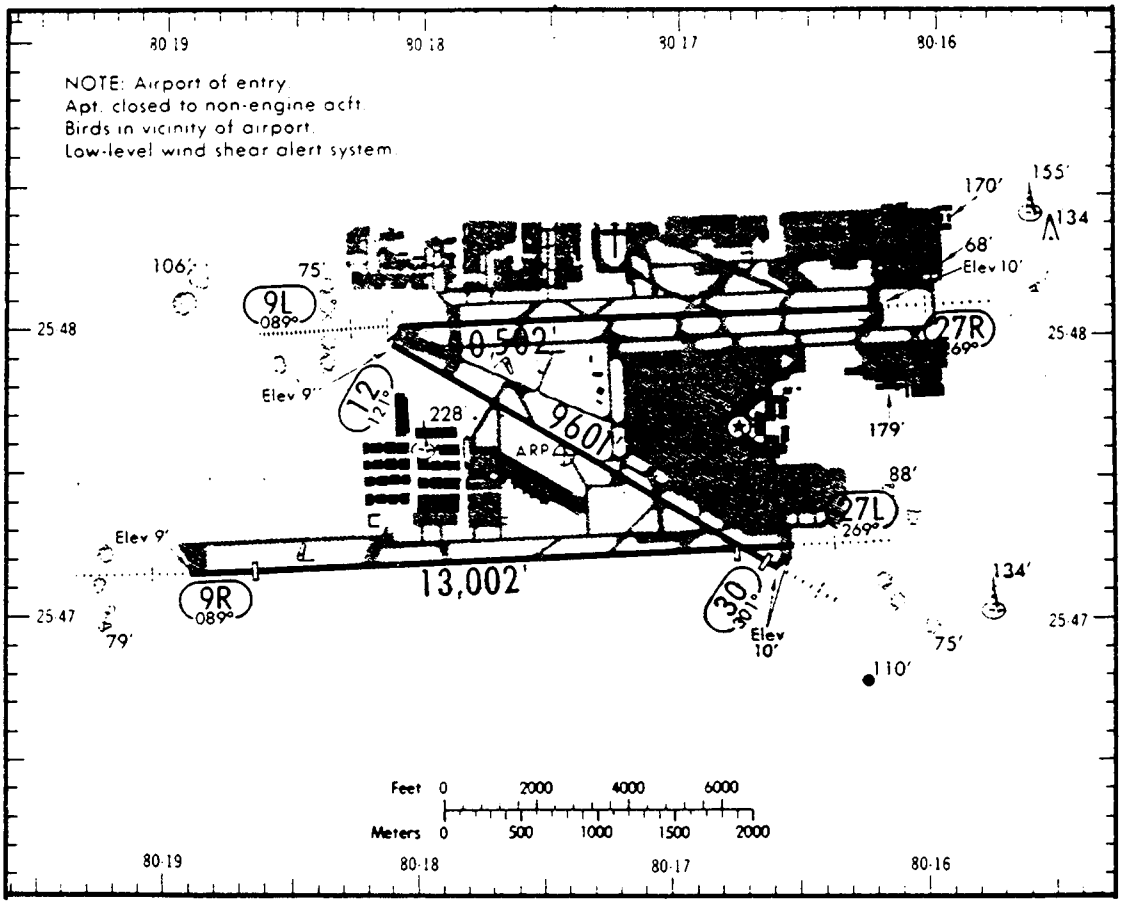
EXISTING	NEW GENERATION
NONE	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 24

MIAMI FL (MIA) ASO



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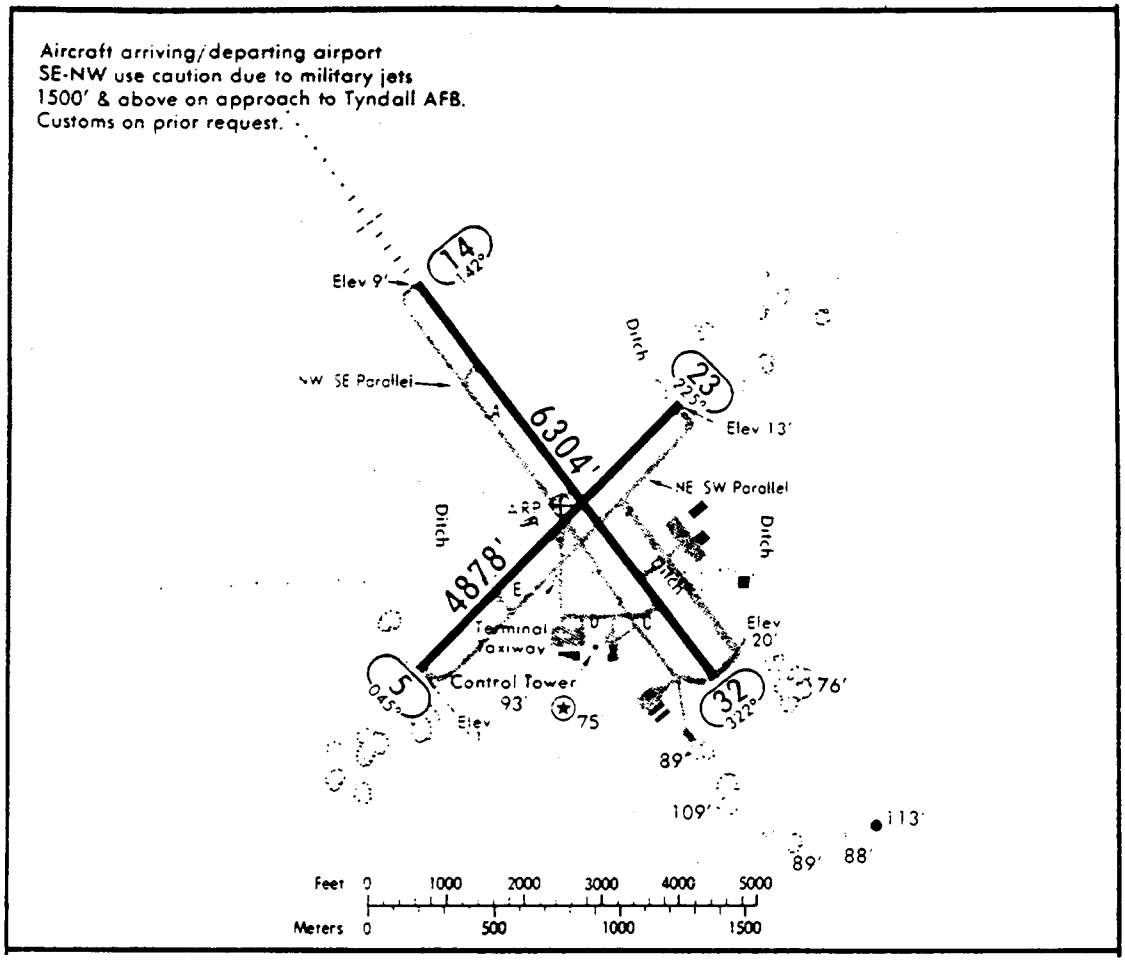
	EXISTING	NEW GENERATION		
09L	347AE	System Elements		QTY REQ'D
MFA	TD	Basic		1
		Sensor Packages		2
27L	347AE	RLIM		1
		Displays		
MIA	TD	ATCT	2	
		TRACON	7	
		NWS	1	
		Other	–	
		Total Displays		10

FY 85	ESTABLISH	R/W 09R

PANAMA CITY FLA (PFN)

ASO



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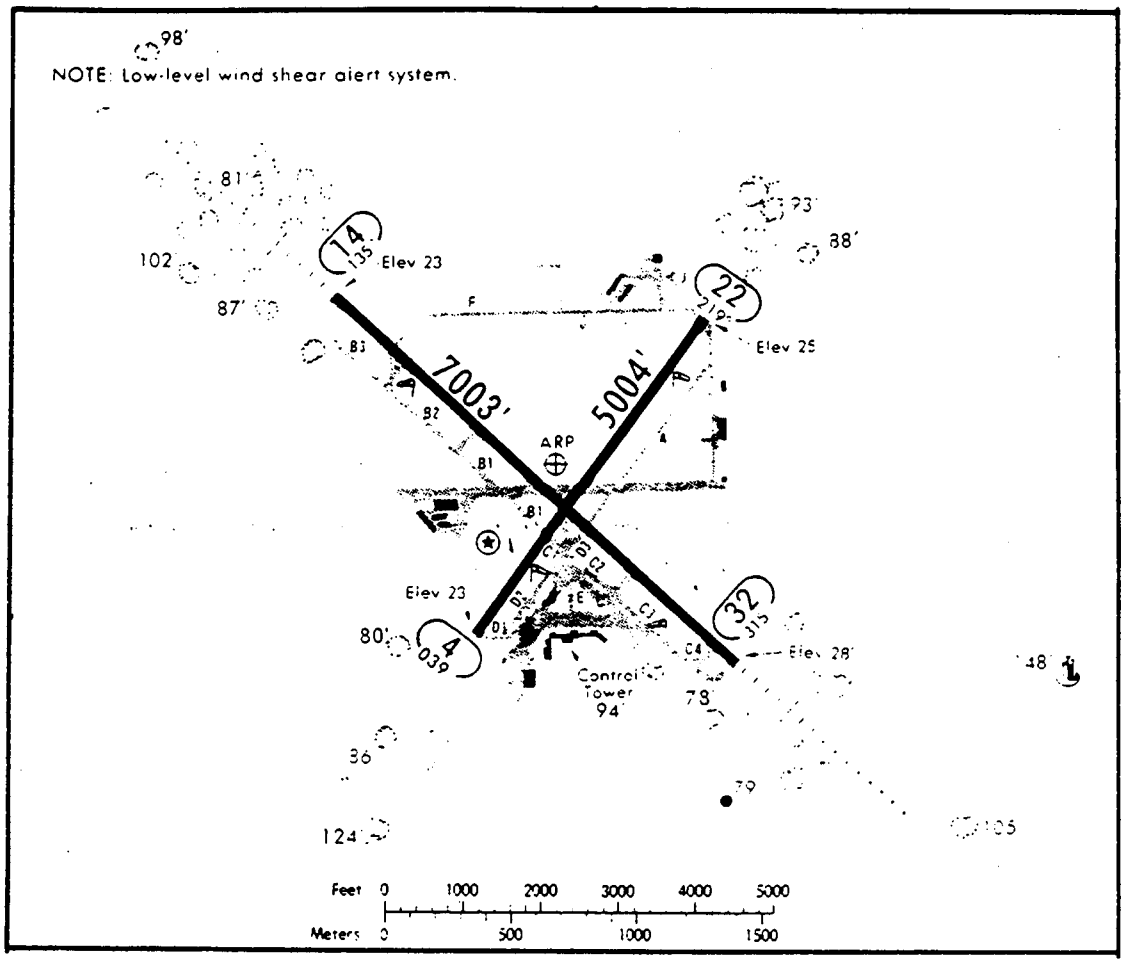
EXISTING	NEW GENERATION	
NONE	System Elements	QTY REQ'D
	Basic	1
	Sensor Packages	–
	RLIM	–
	Displays	
	ATCT 2	
	TRACON –	
	NWS –	
	Other –	
	Total Displays	2

FY 85	REPLACE	R/W 14

SARASOTA FLA (SRQ)

ASO



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EXISTING

NONE

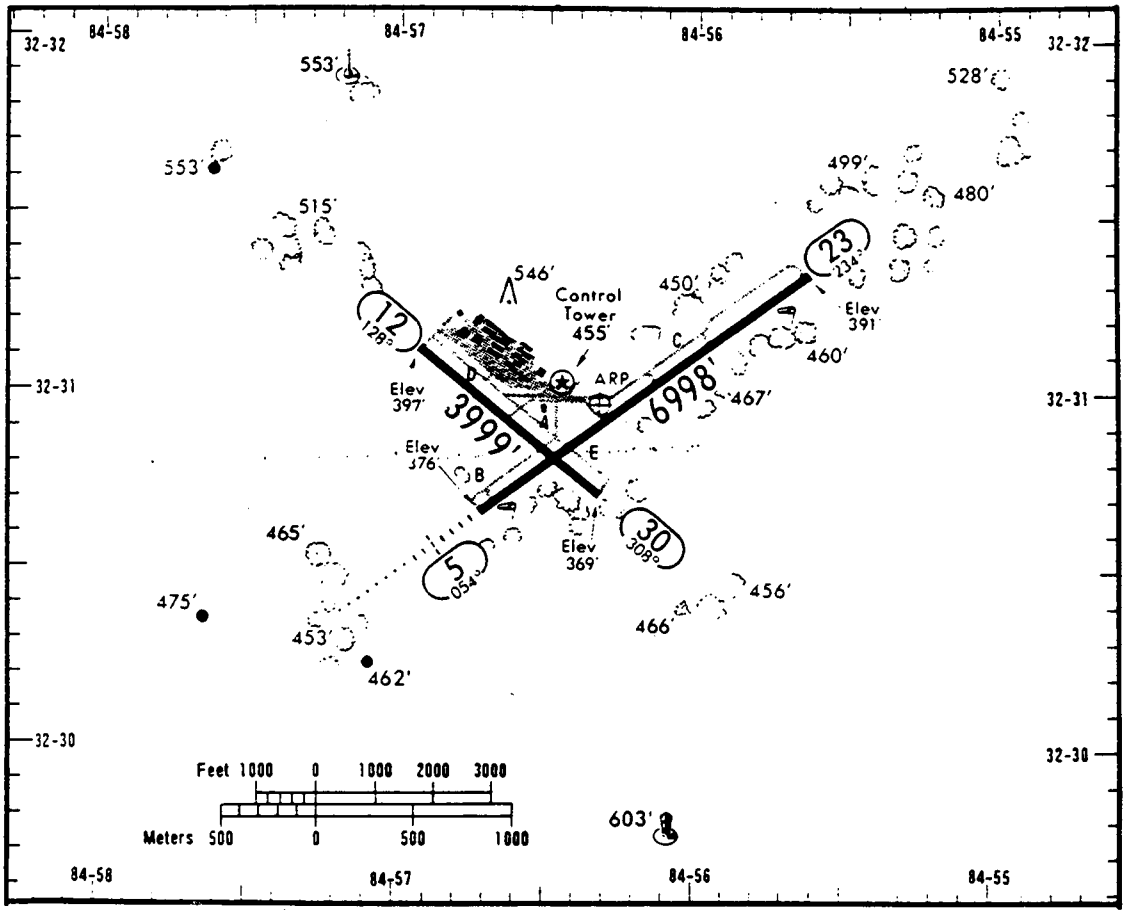
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 32

COLUMBUS GA (CSG)

ASO



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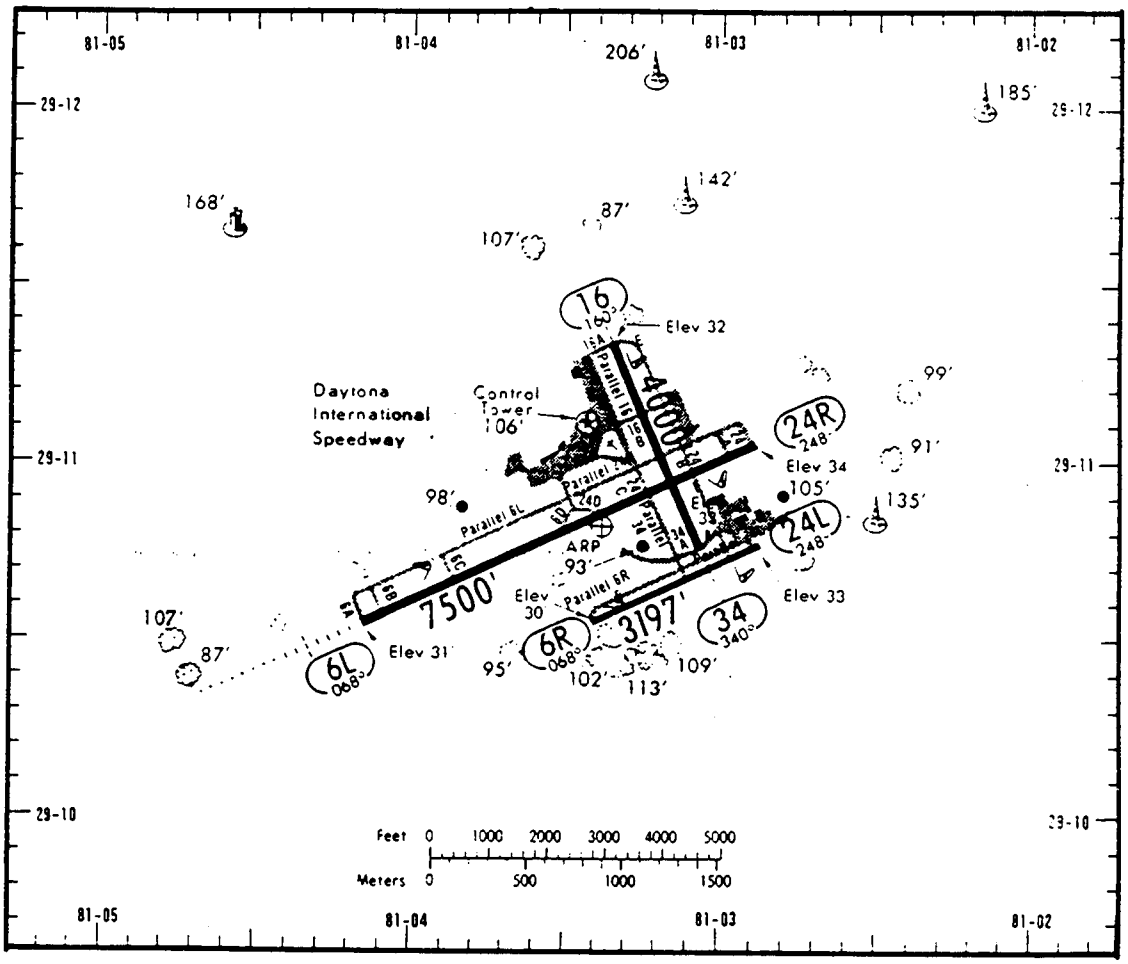
EXISTING		NEW GENERATION		
05	34714	System Elements		QTY REQ'D
CSG	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		5

FY 85	REPLACE	R/W 05

DAYTONA BEACH FL (DAB)

ASO



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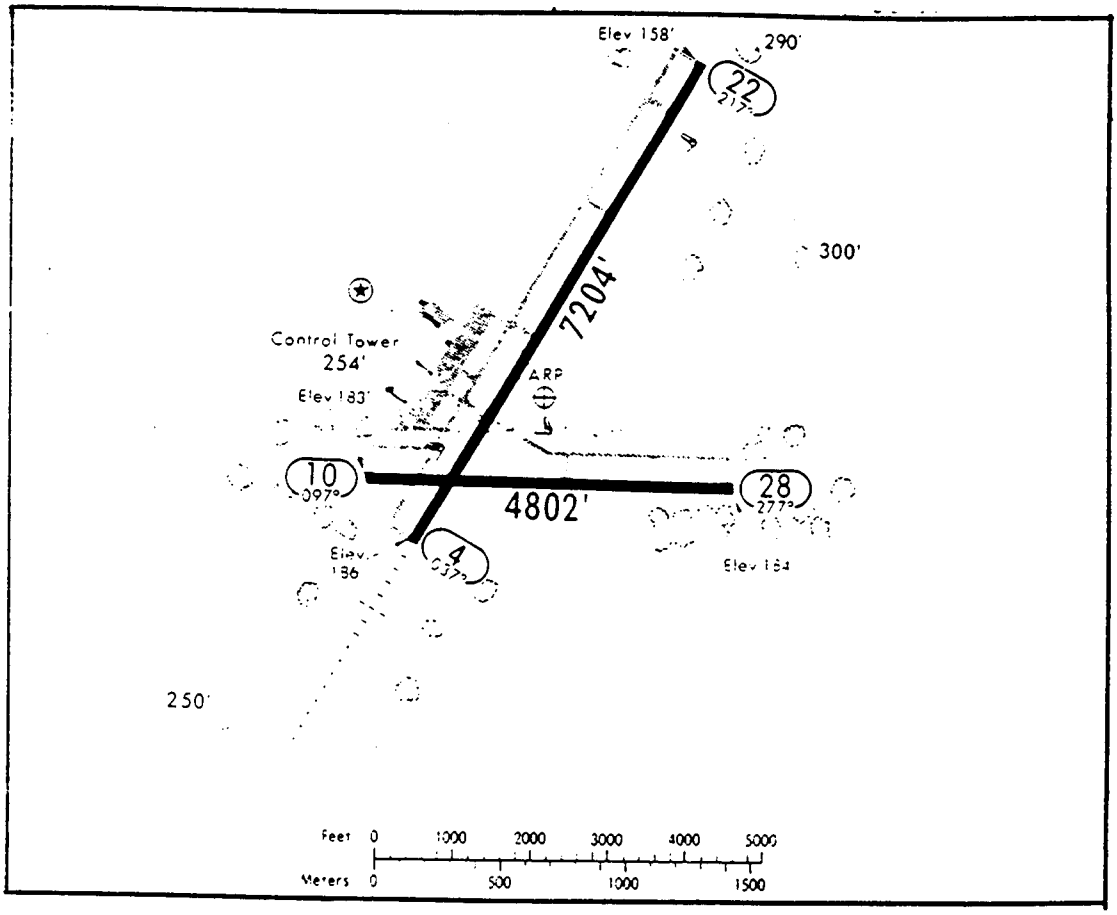
	EXISTING	NEW GENERATION
06L	347AC	
DAB	TB	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	1	
NWS	1	
Other	–	
Total Displays		3

FY 85	REPLACE	R/W 06L

FAYETTEVILLE NC (FAY)

ASO



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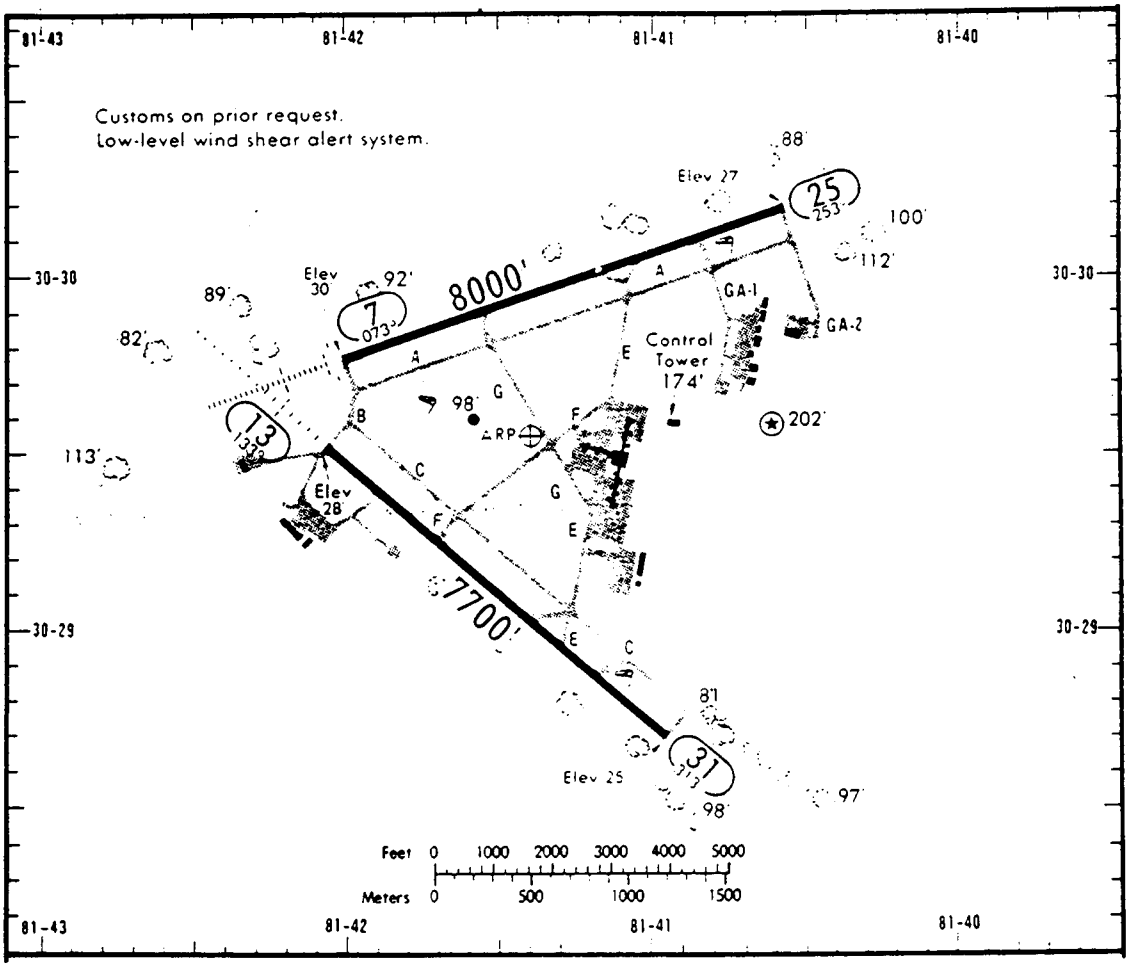
	EXISTING	NEW GENERATION		
04	347AC	System Elements		QTY REQ'D
GRA	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 85	REPLACE	R/W 04

JACKSONVILLE FL (JAX)

ASO



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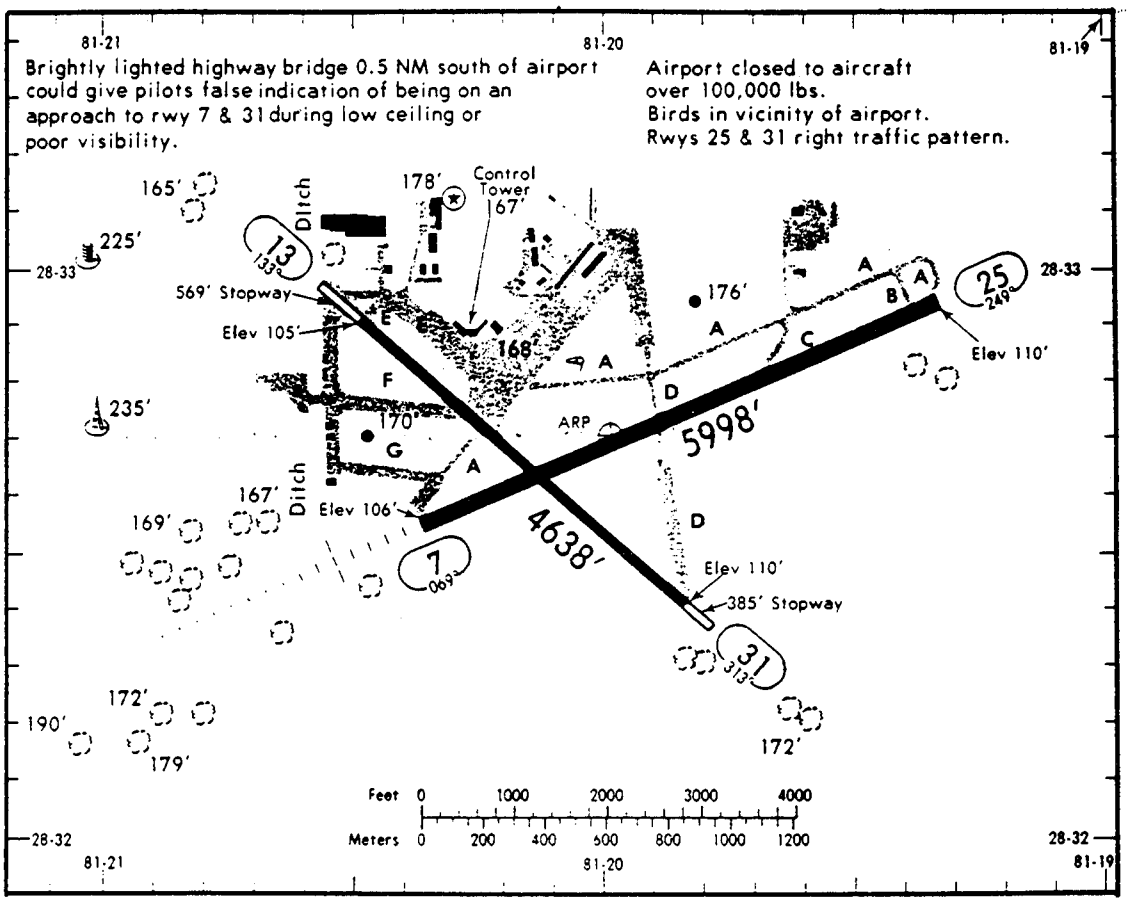
EXISTING		NEW GENERATION		
07	34714	System Elements		QTY REQ'D
JAX	TD	Basic		1
		Sensor Packages		2
07	34715	RLIM		–
JAXA	MP	Displays		
		ATCT	1	
		TRACON	3	
JAXB	RO	NWS	1	
		Other	–	
		Total Displays		5

FY 85	REPLACE	R/W 07

ORLANDO FL (ORL)

ASO



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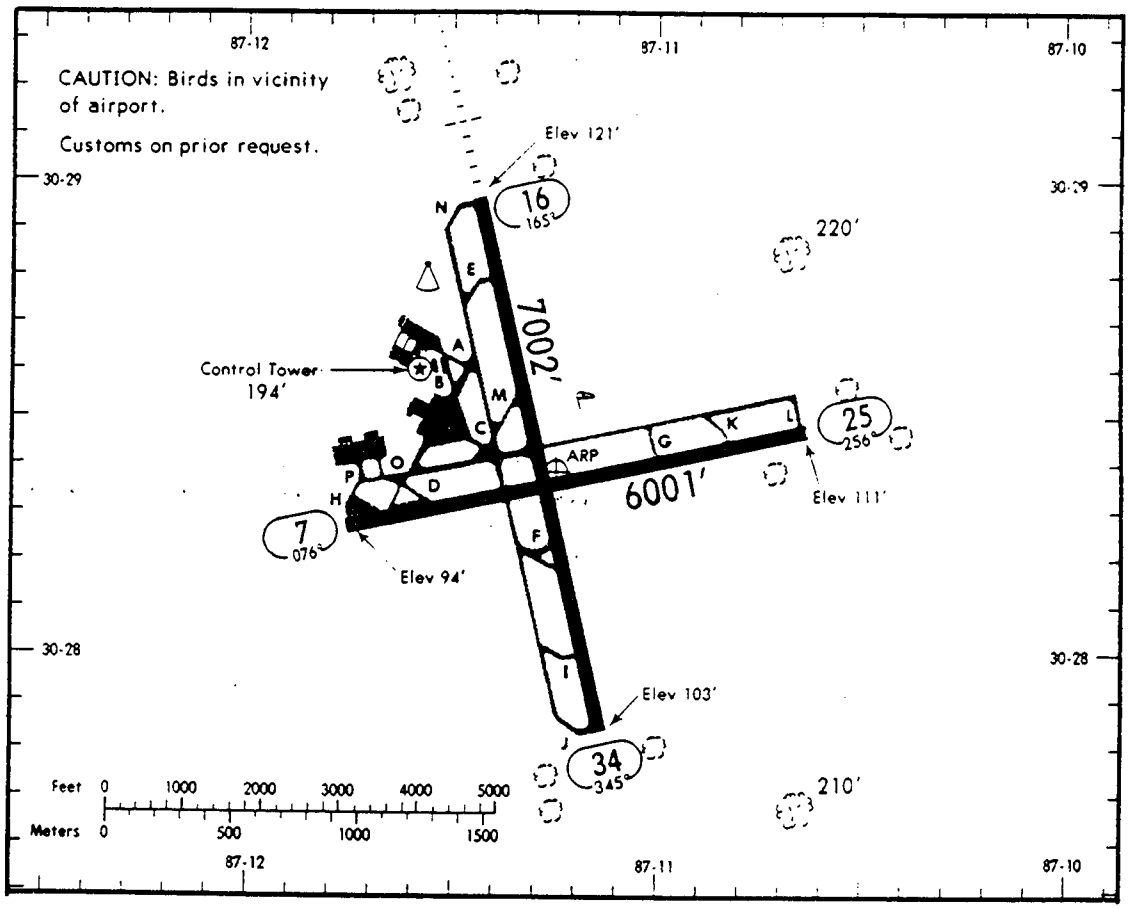
EXISTING		NEW GENERATION	
07	347AC	System Elements	QTY REQ'D
ORL	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT 1	
		TRACON –	
		NWS –	
		Other –	
		Total Displays	1

FY 85	REPLACE	R/W 07

PENSACOLA FL (PNS)

ASO



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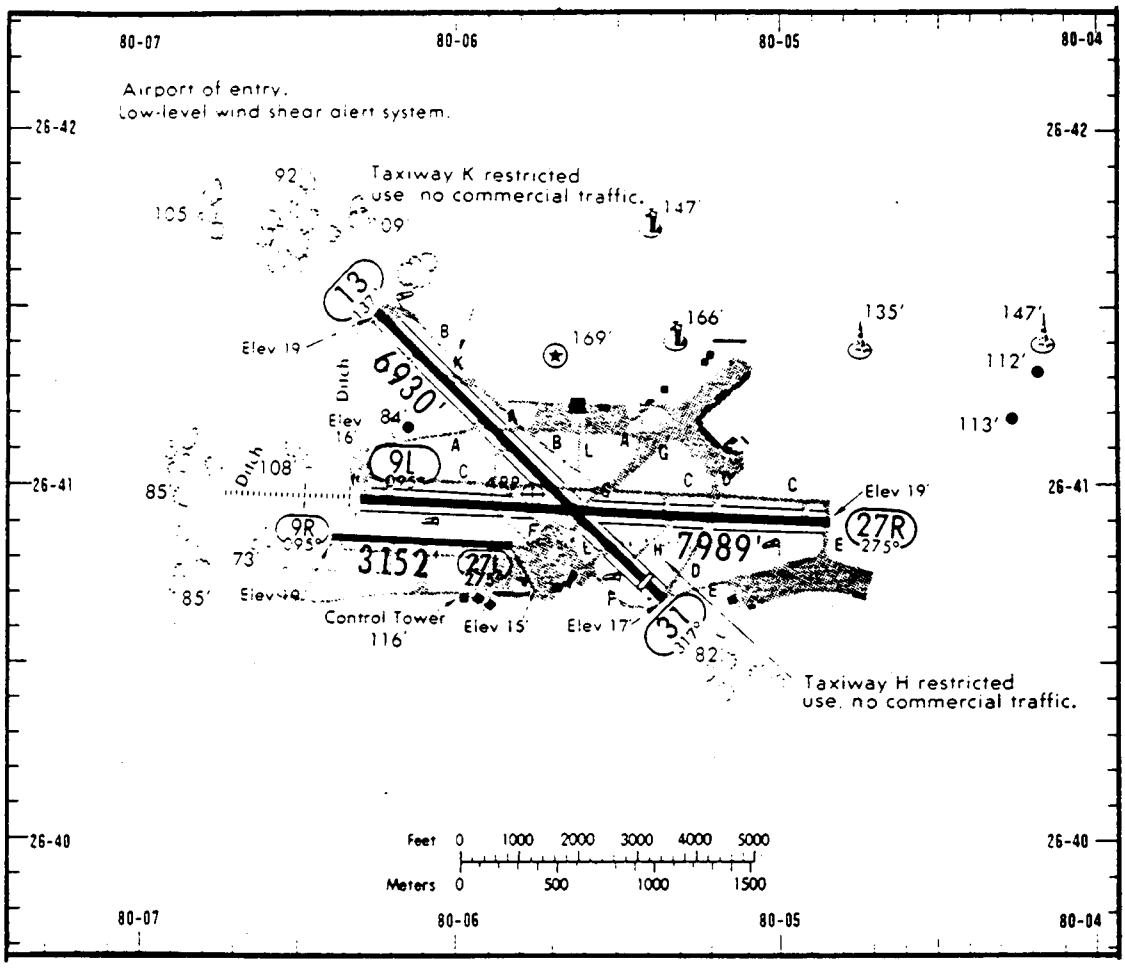
	EXISTING	NEW GENERATION
16	347AC	
PNS	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	–	
Total Displays		4

FY 85	REPLACE	R/W 16

WEST PALM BEACH FL (PBI)

ASO



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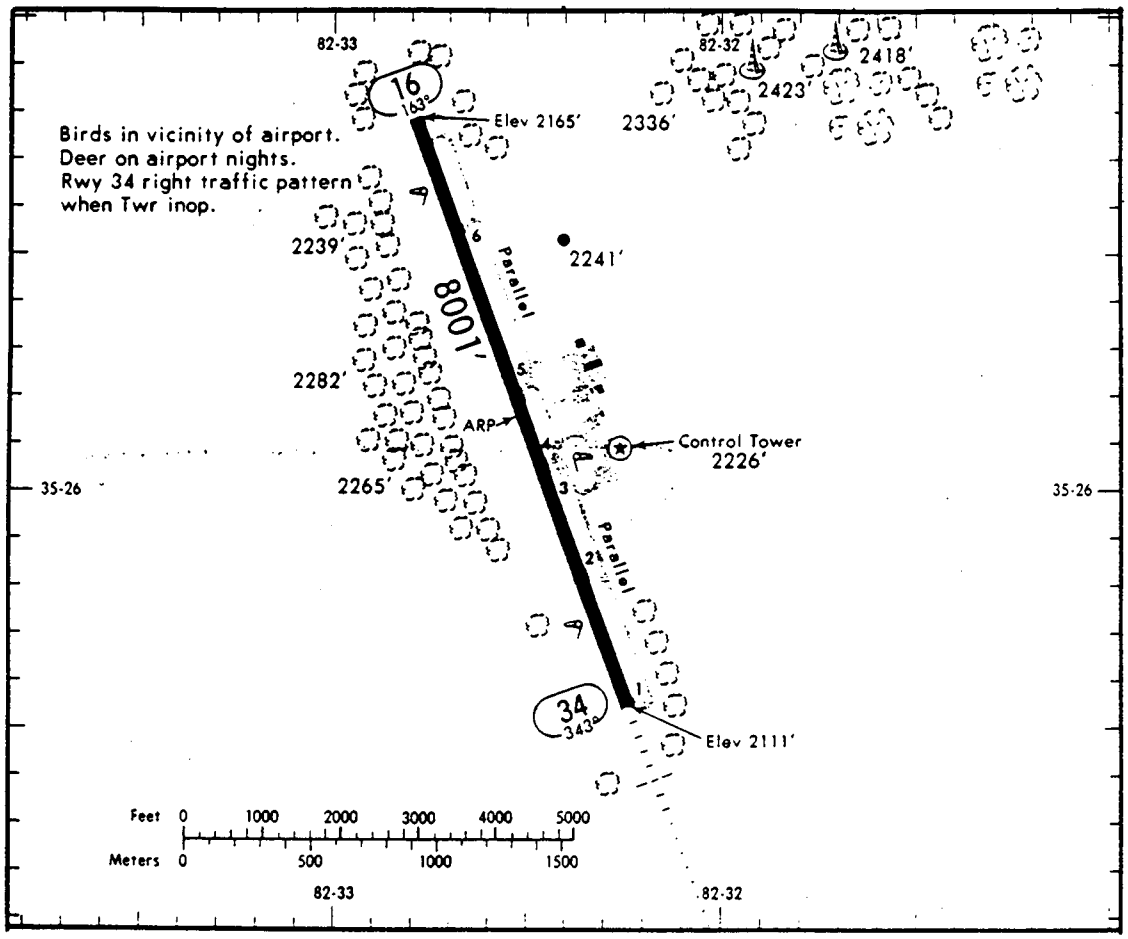
	EXISTING	NEW GENERATION		
09L	347AC	System Elements		QTY REQ'D
PBI	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 85	REPLACE	R/W 09L

ASHEVILLE NC (AVL)

ASO



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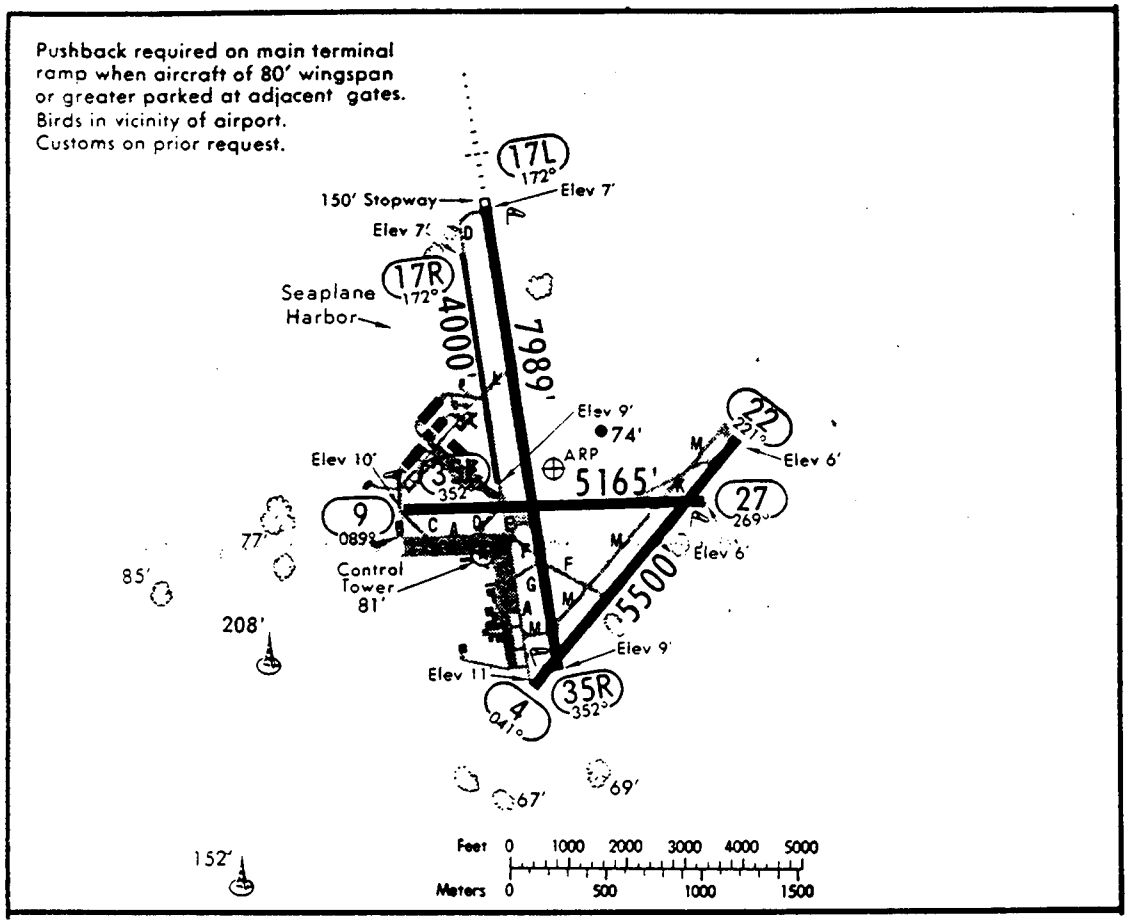
	EXISTING	NEW GENERATION		
34	347AG	System Elements		QTY REQ'D
AVL	TD	Basic		1
		Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		5

FY 85	CONVERT R/V	R/W 34

ST. PETERSBURG FL (PIE)

ASO



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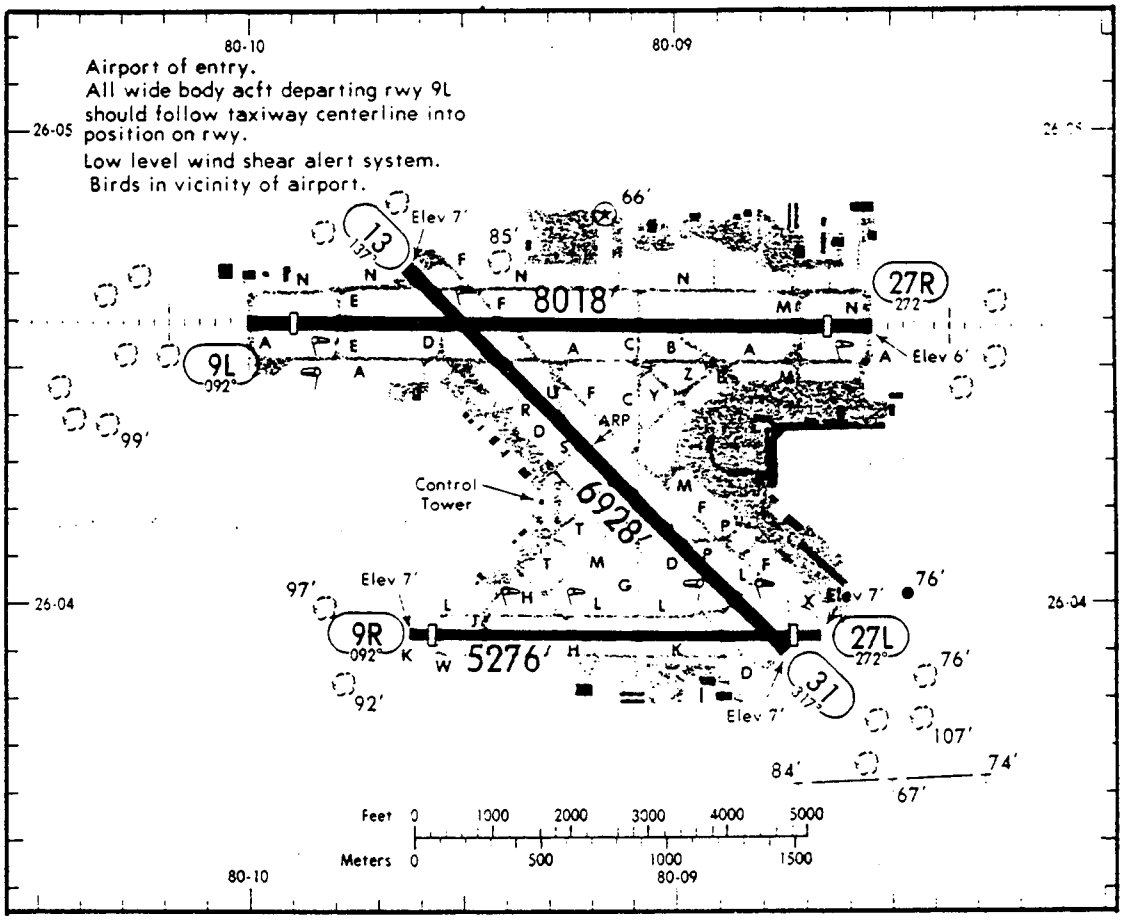
EXISTING		NEW GENERATION		
17L	34711	System Elements		QTY REQ'D
PIE	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		3

FY 85	CONVERT RVV	R/W 17L

FORT LAUDERDALE (FLL)

ASO



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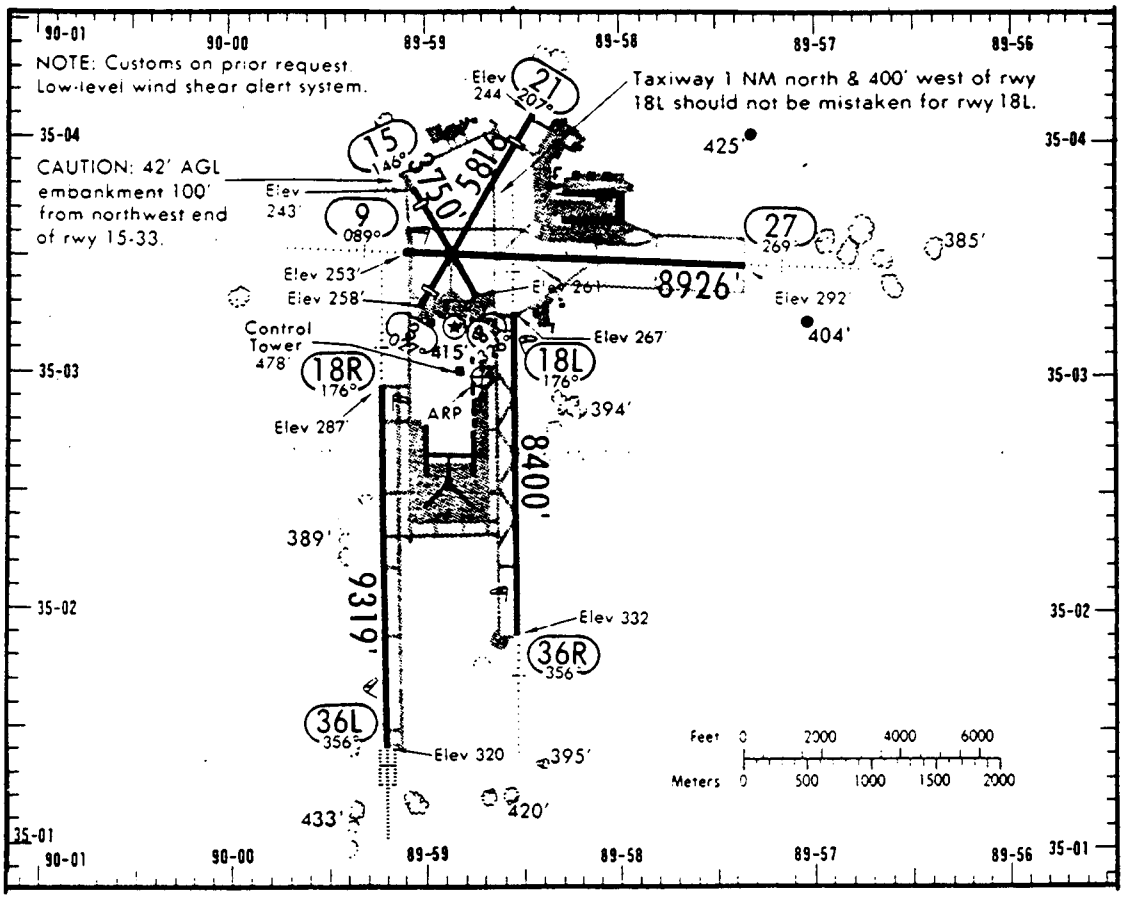
EXISTING		NEW GENERATION		
09L	347AD	System Elements		QTY REQ'D
LHI	TD	Basic		1
		Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 86	ESTABLISH	R/W 27R

MEMPHIS TN (MEM)

ASO



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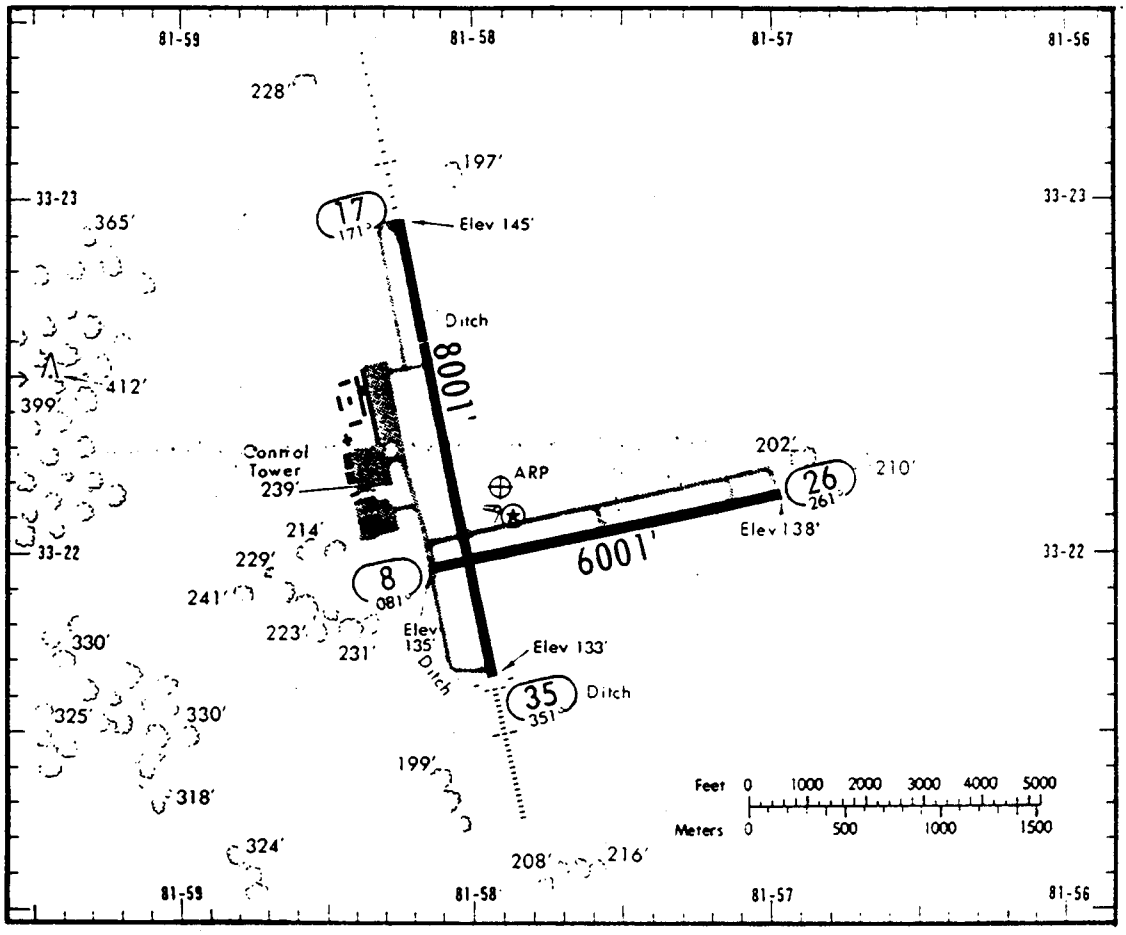
EXISTING				NEW GENERATION		
09	347AC	36R	347AC	System Elements		QTY REQ'D
MEM	TD	TSE	TD	Basic		1
				Sensor Packages		6
36L	347AC			RLIM		2
				Displays		
OHN	TD			ATCT	3	
OHNA	MP			TRACON	5	
OHNB	RO			NWS	1	
				Other	–	
18L	347AC					
				Total Displays		9
SDV	TD					

FY 86	ESTABLISH	R/W 27
FY 86	REPLACE	R/W 36L

AUGUSTA GA (AGS)

ASO



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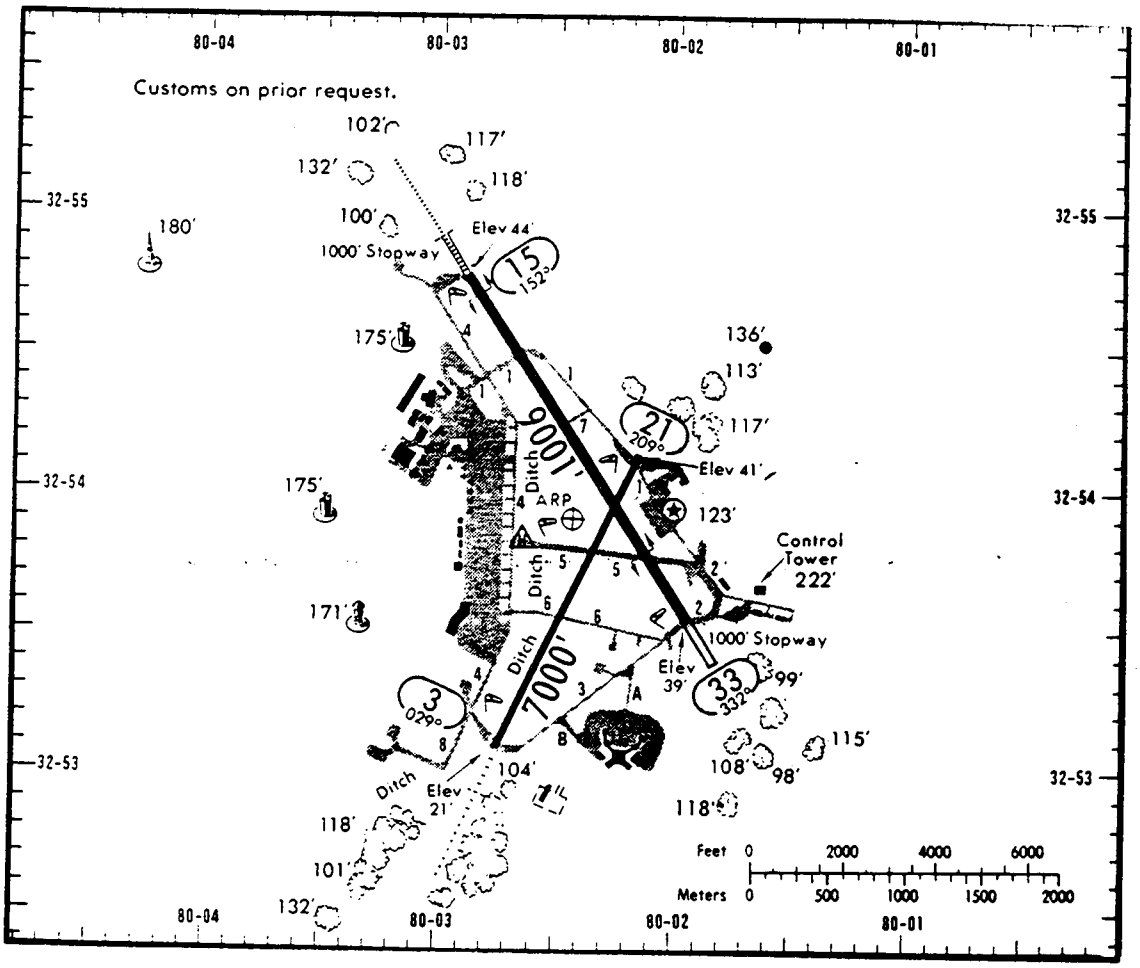
EXISTING		NEW GENERATION		
35	347AC	System Elements		QTY REQ'D
AGS	TD	Basic		1
		Sensor Packages		1
35	347AD	RLIM		–
AGSA	RO	Displays		
		ATCT	1	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 86	REPLACE	R/W 35

CHARLESTON SC (CHS)

ASO



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EXISTING

15	347AD
CHS	TD
CHSA	MP
CHSB	RO

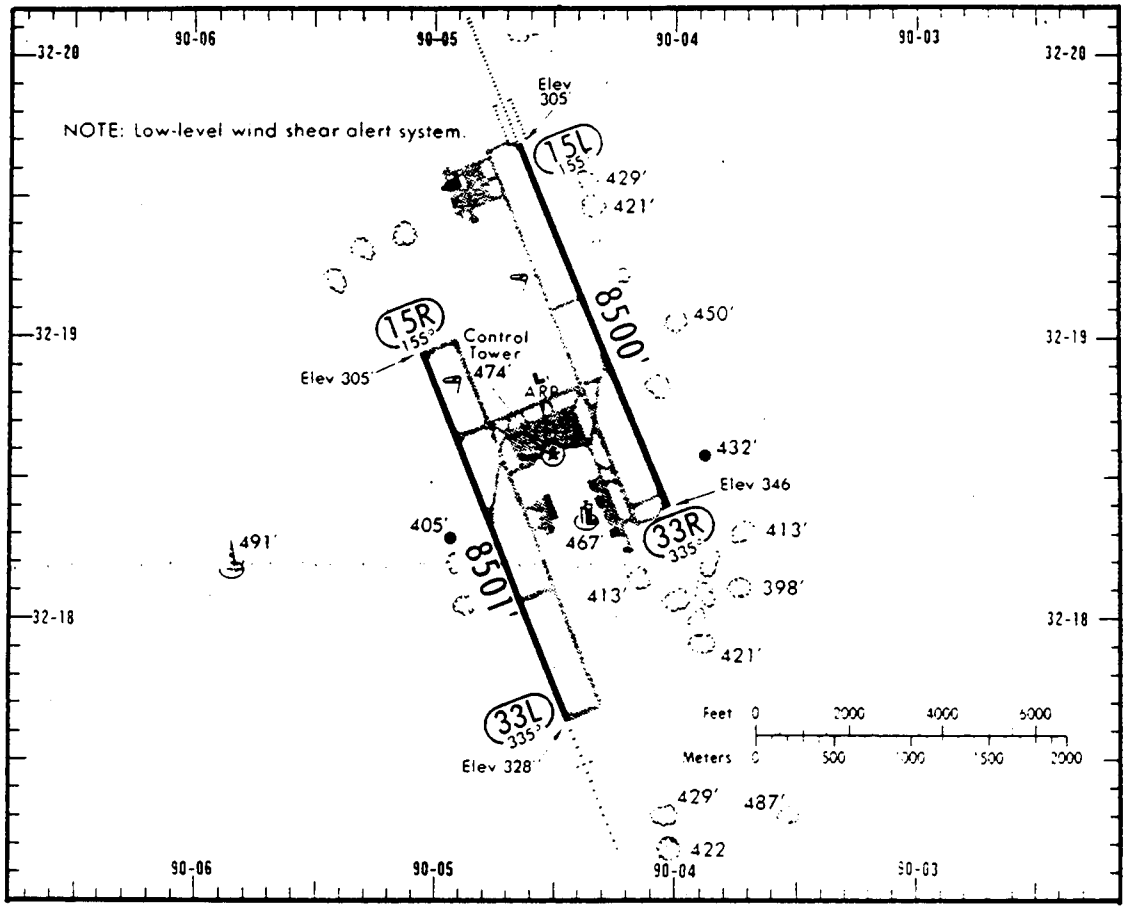
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		2
RLIM		–
Displays		
ATCT	2	
TRACON	4	
NWS	1	
Other	–	
Total Displays		7

FY 86	REPLACE	R/W 15

JACKSON MS (JAN)

ASO



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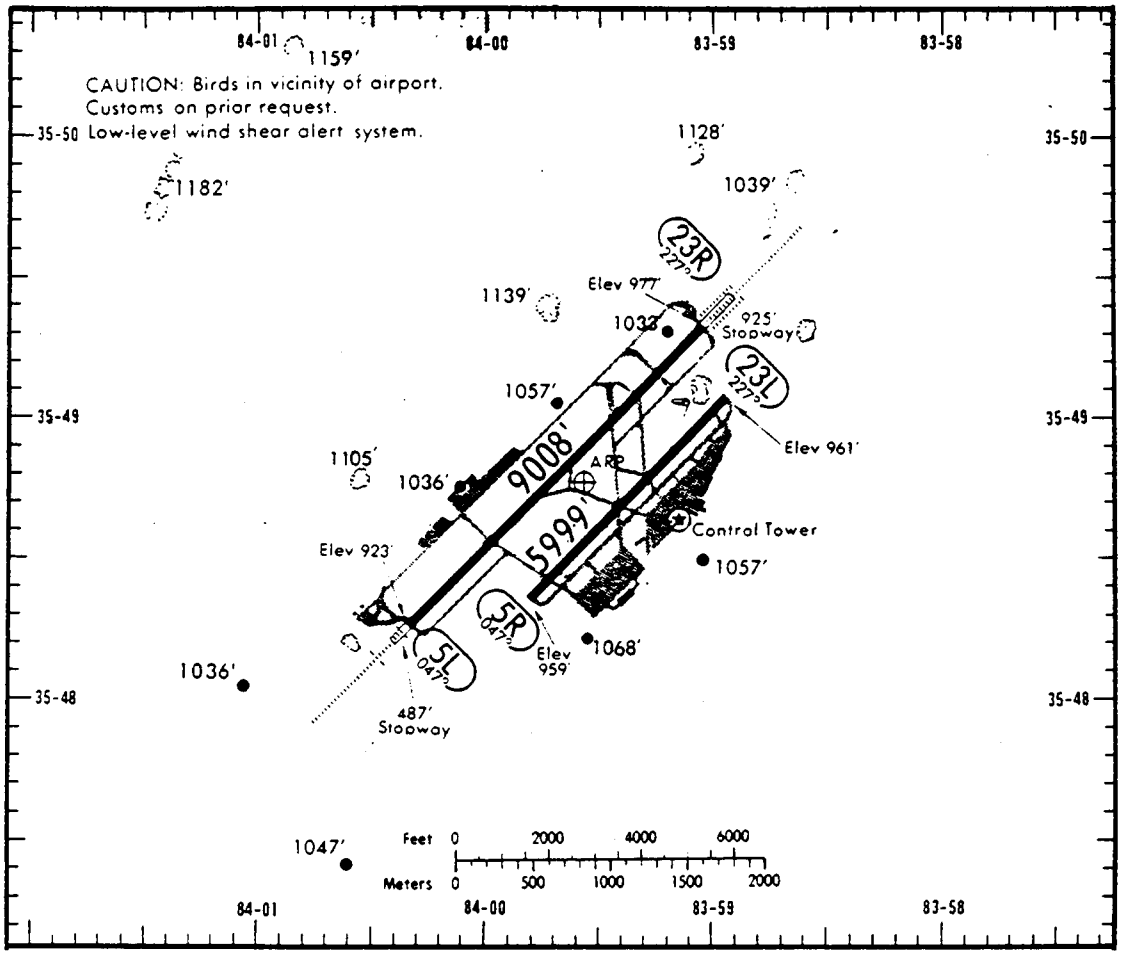
	EXISTING	NEW GENERATION
15L	347AD	
JAN	TD	
JANA	MP	
JANB	RO	

System Elements		QTY REQ'D
Basic		2
Sensor Packages		2
RLIM		–
Displays		
ATCT	4	
TRACON	3	
NWS	1	
Other	–	
Total Displays		8

FY 86	REPLACE	R/W 15L

KNOXVILLE TN (TYS)

ASO



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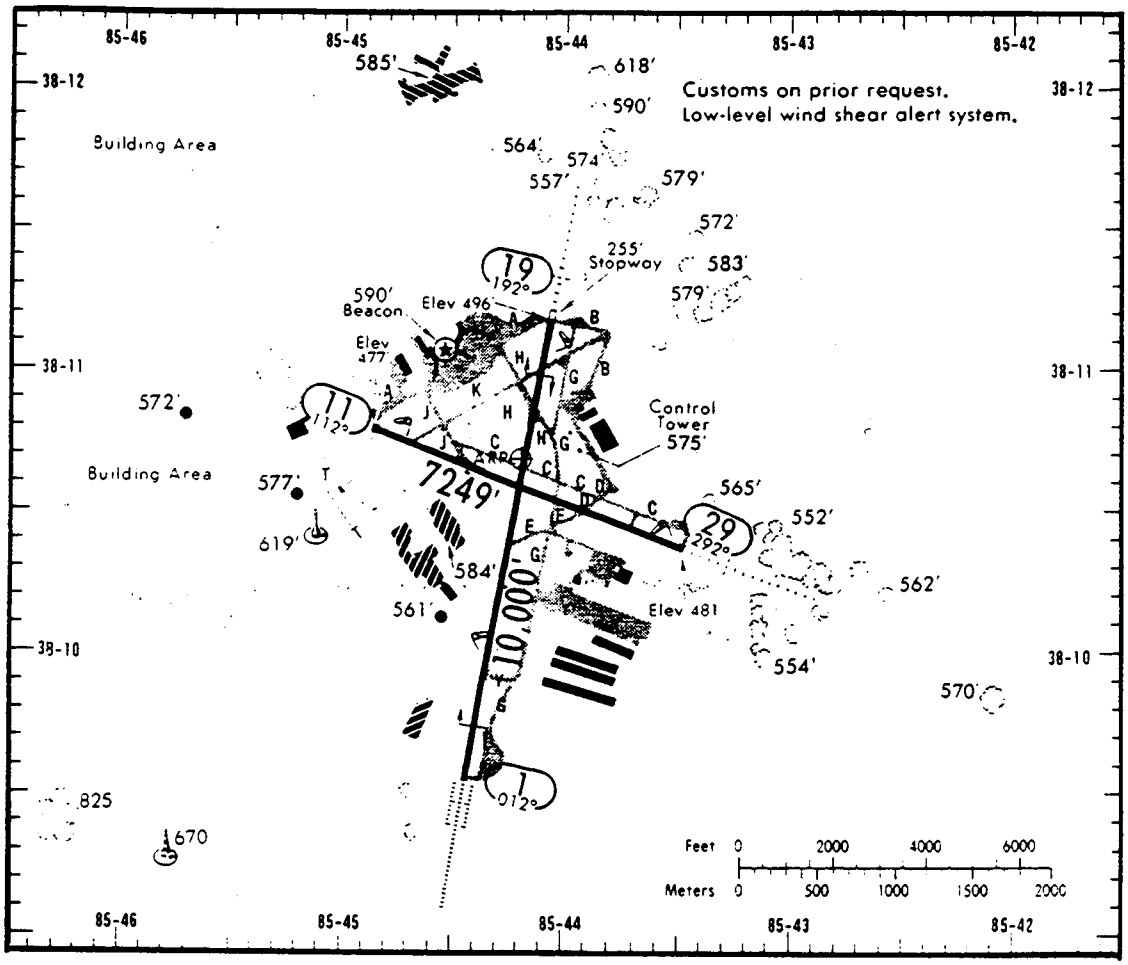
	EXISTING	NEW GENERATION		
23R	34715	System Elements		QTY REQ'D
BUI	TD	Basic		1
BUIA	RO	Sensor Packages		2
		RLIM		–
05L	34715	Displays		
		ATCT	2	
TYS	TD	TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		6

FY 86	REPLACE	R/W 05L

LOUISVILLE KY (SDF)

ASO



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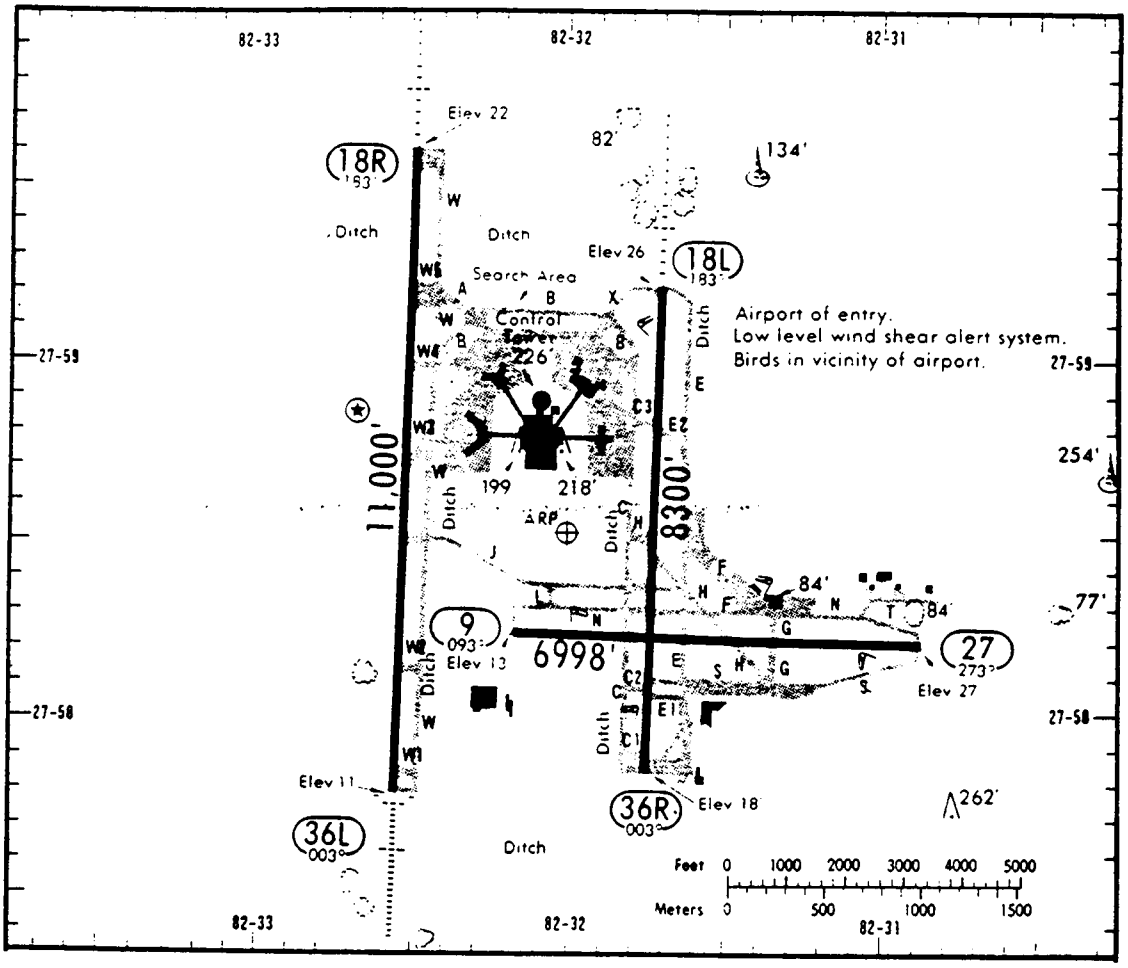
EXISTING	
29	34712
LKS	TD
01	34715
SDF	TD
19	34715
ANO	TD

NEW GENERATION		
System Elements		QTY REQ'D
Basic		1
Sensor Packages		2
RLIM		1
Displays		
ATCT	2	
TRACON	4	
NWS	1	
Other	–	
Total Displays		7

FY 86	REPLACE	R/W 01

TAMPA FL (TPA)

ASO



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EXISTING	
18L	347AC
TPA	TD
36L	347AD
AMP	TD
AMPA	MP
AMPB	RO

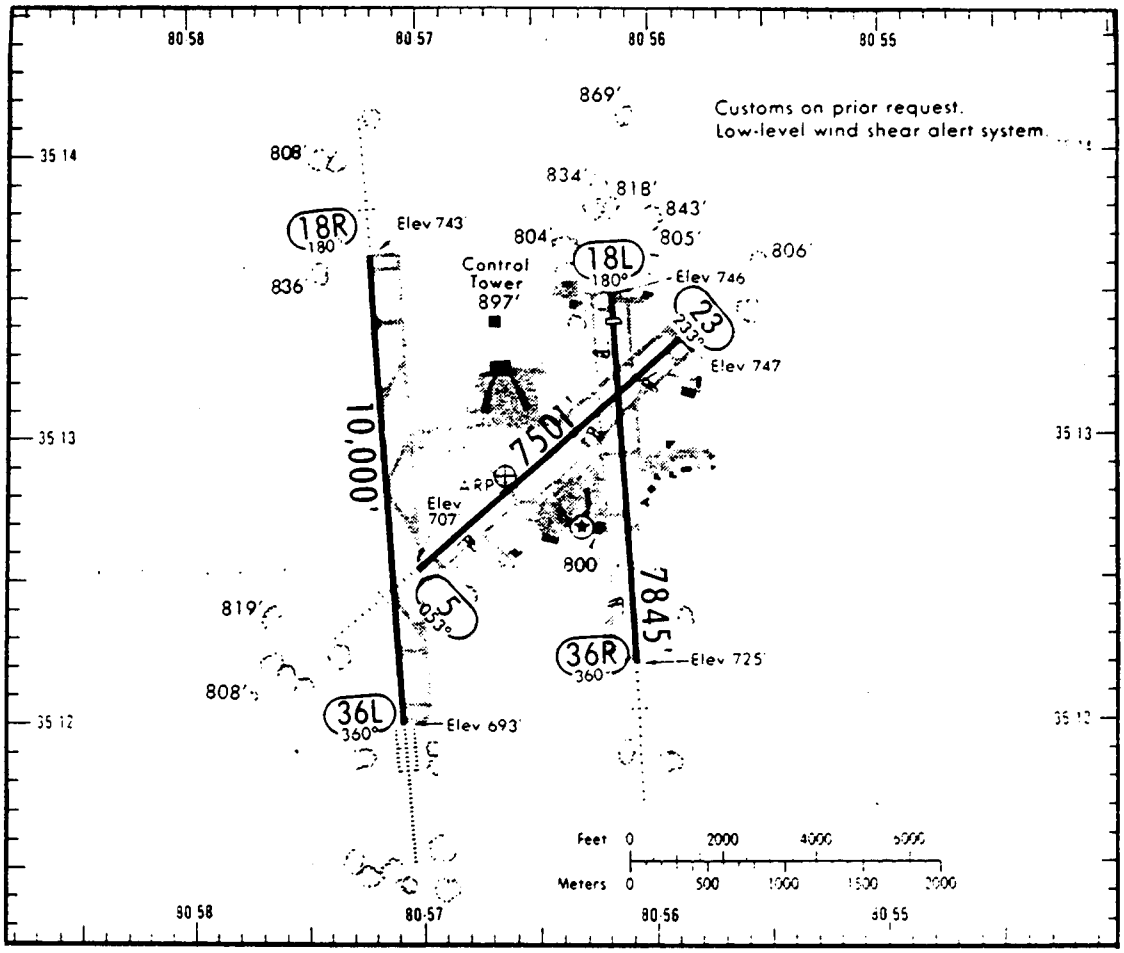
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	1	
TRACON	3	
NWS	1	
Other	–	
Total Displays		5

FY 86	REPLACE	R/W 36L

CHARLOTTE NC (CLT)

ASO



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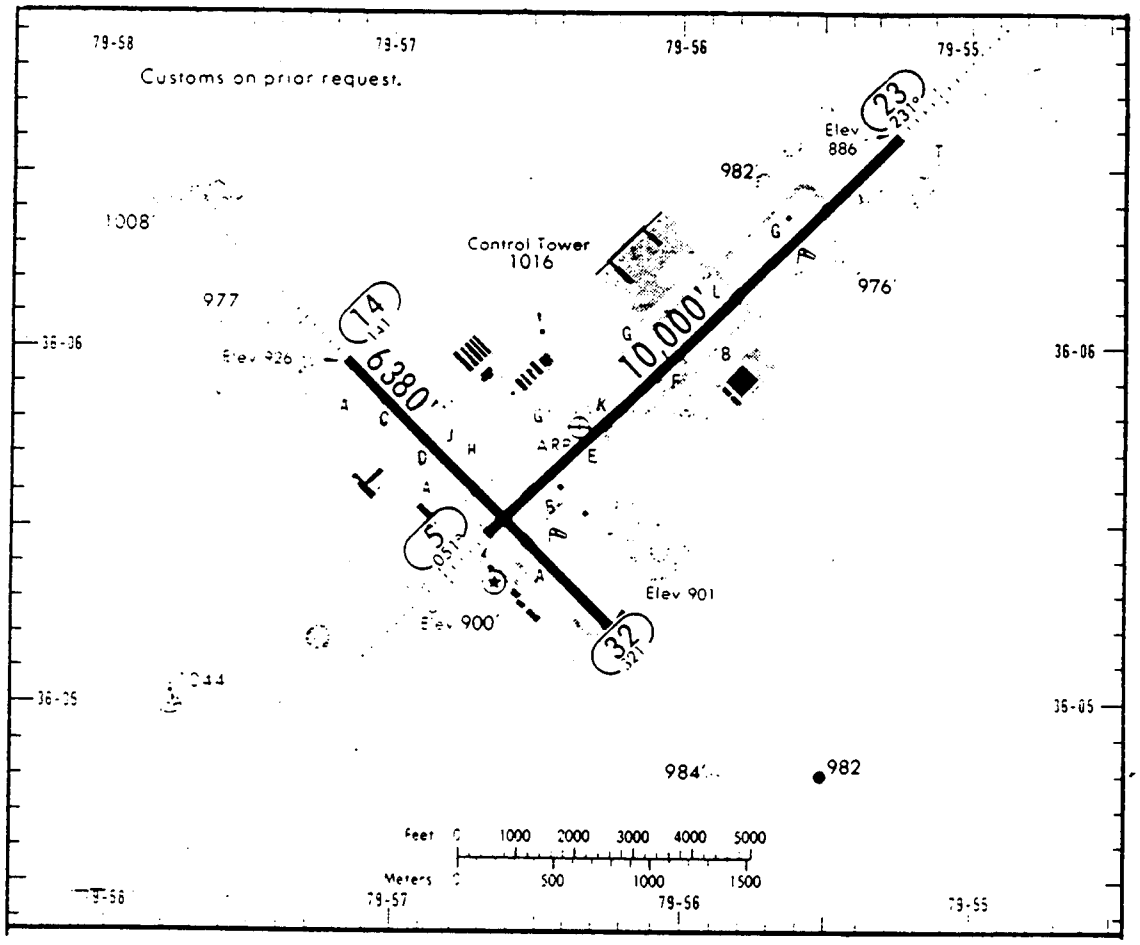
	EXISTING	NEW GENERATION		
05	347AE	System Elements		QTY REQ'D
CLT	TD	Basic		1
		Sensor Packages		5
36L	347AE	RLIM		2
		Displays		
DOG	TD	ATCT	2	
DOGA	MP	TRACON	4	
DOBG	RO	NWS	1	
		Other	–	
		Total Displays		7

FY 88	ESTABLISH	R/W 18L/36R

GREENSBORO NC (GSO)

ASO



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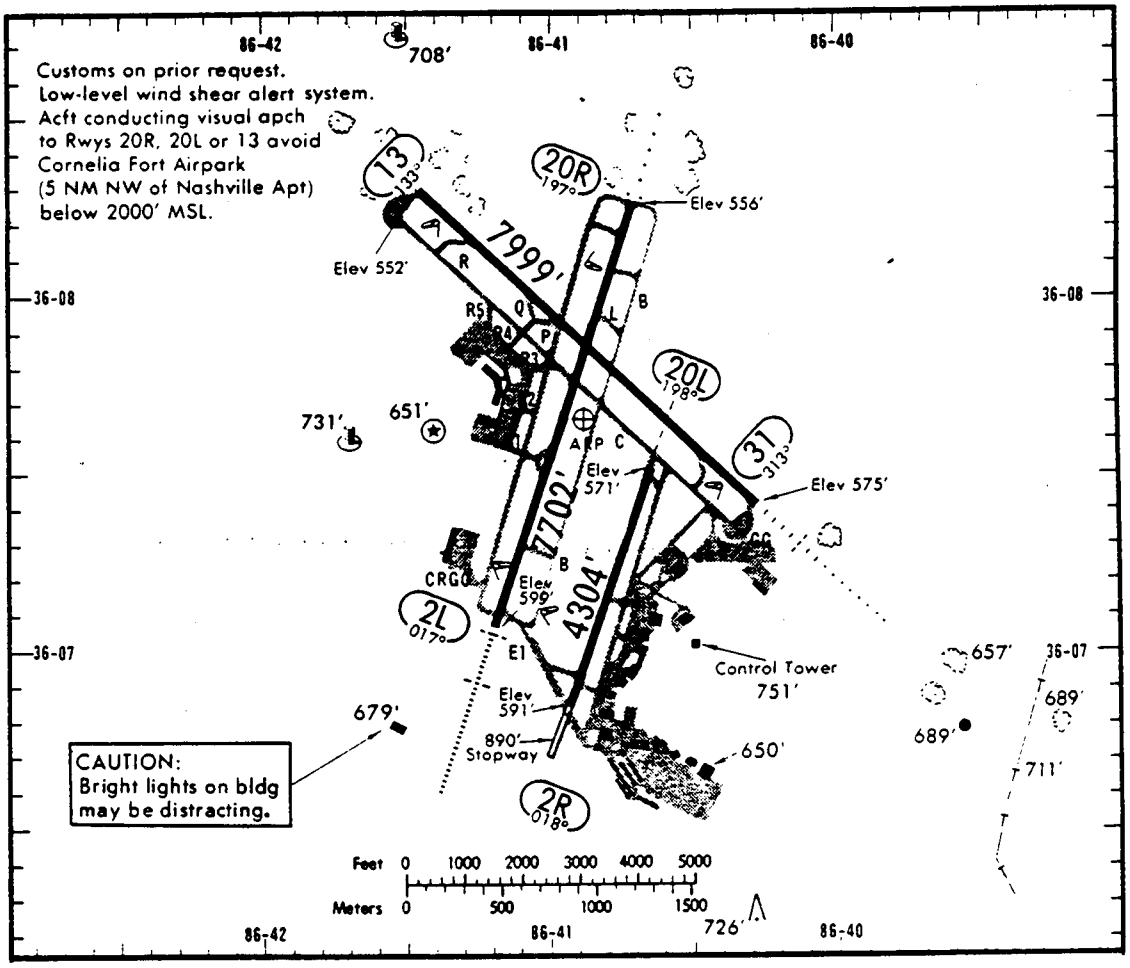
	EXISTING	NEW GENERATION
23	34716	
HIH	TD	
14	34716	
GSO	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		2
RLIM		1
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	–	
Total Displays		4

FY 88	ESTABLISH	R/W 05

NASHVILLE TN (BNA)

ASO



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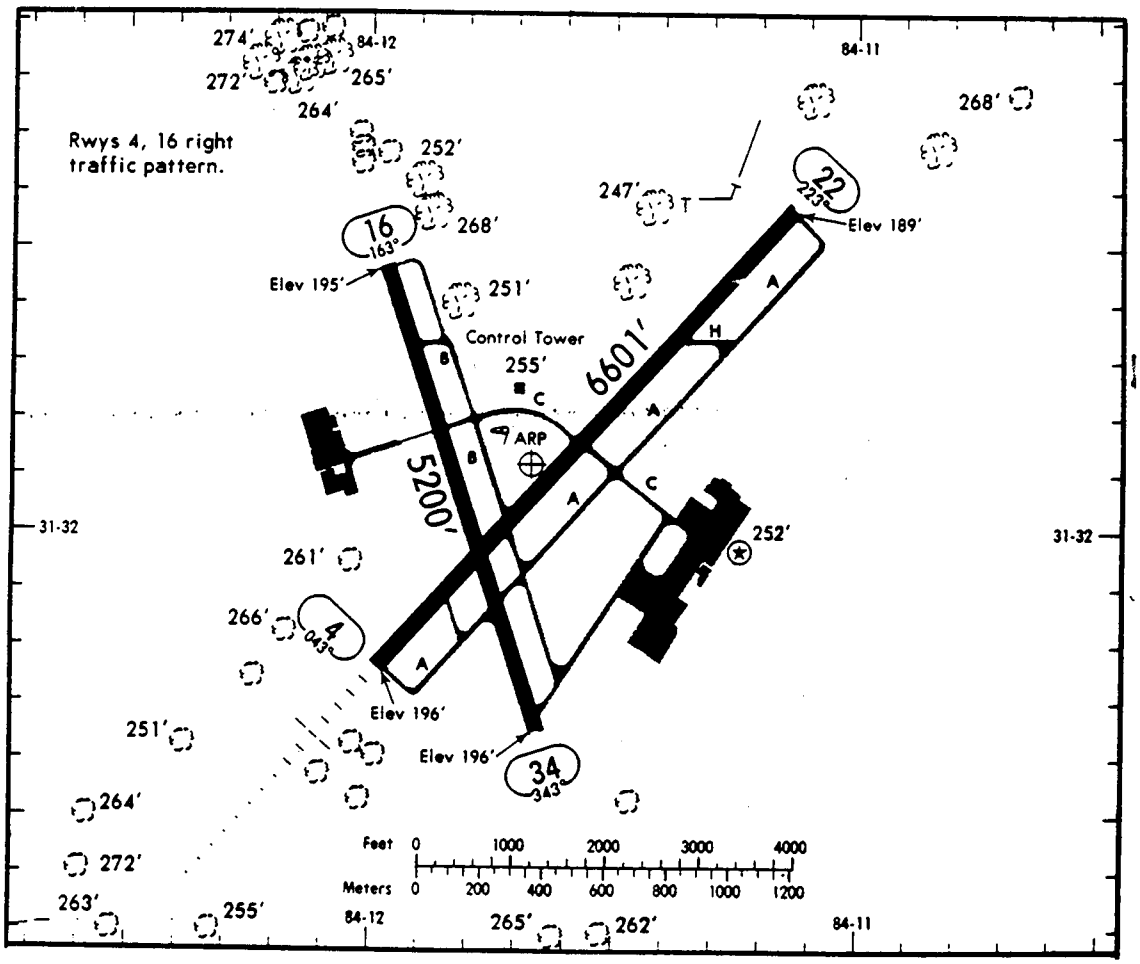
EXISTING		NEW GENERATION		
02L	347AE	System Elements		QTY REQ'D
BNA	TD	Basic		1
BNAA	RO	Sensor Packages		4
		RLIM		2
		Displays		
		ATCT	2	
		TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		6

FY 86	ESTABLISH	R/W 03/21

ALBANY GA (ABY)

ASO



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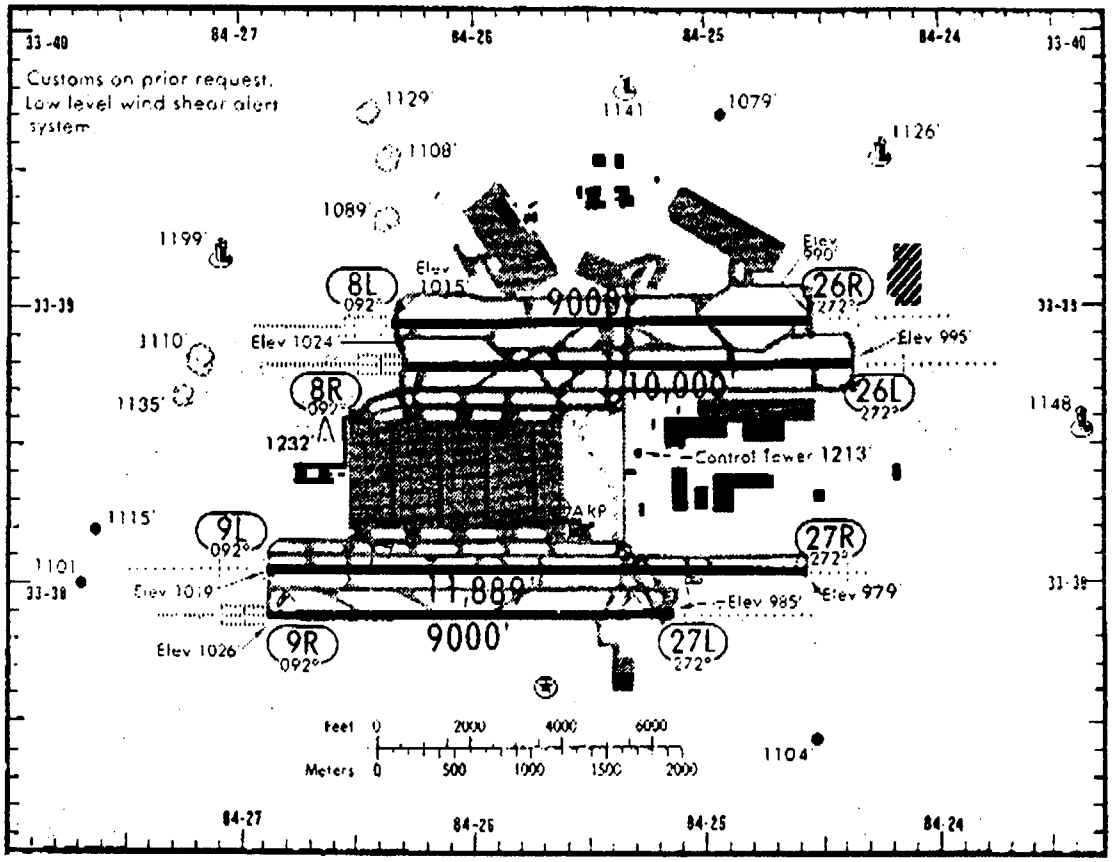
EXISTING		NEW GENERATION		
04	347AE	System Elements		QTY REQ'D
MBY	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	1	
		Total Displays		2

FY 93	REPLACE	R/W 04

ATLANTA GA (ATL)

ASO



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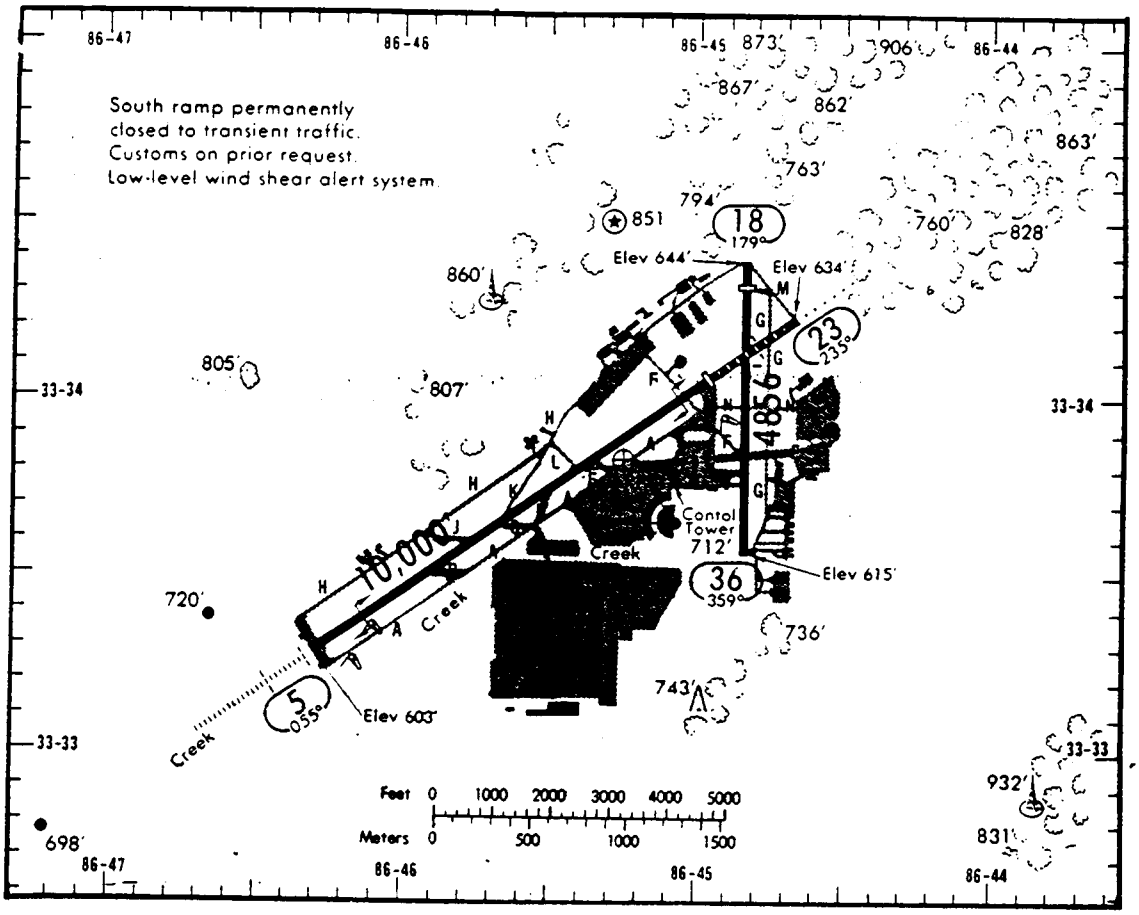
EXISTING				NEW GENERATION		
08R	347AE	27L	347AE	System Elements		QTY REQ'D
ATL	TD	FUNB	MP	Basic		1
ATLA	RO			Sensor Packages		6
				RLIM		2
26L	347AE	27R	347AE	Displays		
				ATCT	3	
ATLB	MP	AFA	TD	TRACON	8	
				NWS	2	
09R	347AE			Other	–	
FUN	TD			Total Displays		13
FUNA	RO					

FY 93	REPLACE	R/W 08R/26L, 09R/27L, 27R

BIRMINGHAM AL (BHM)

ASO



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EXISTING

05	34716
BHM	TD
BHMA	RO
BHMB	MP

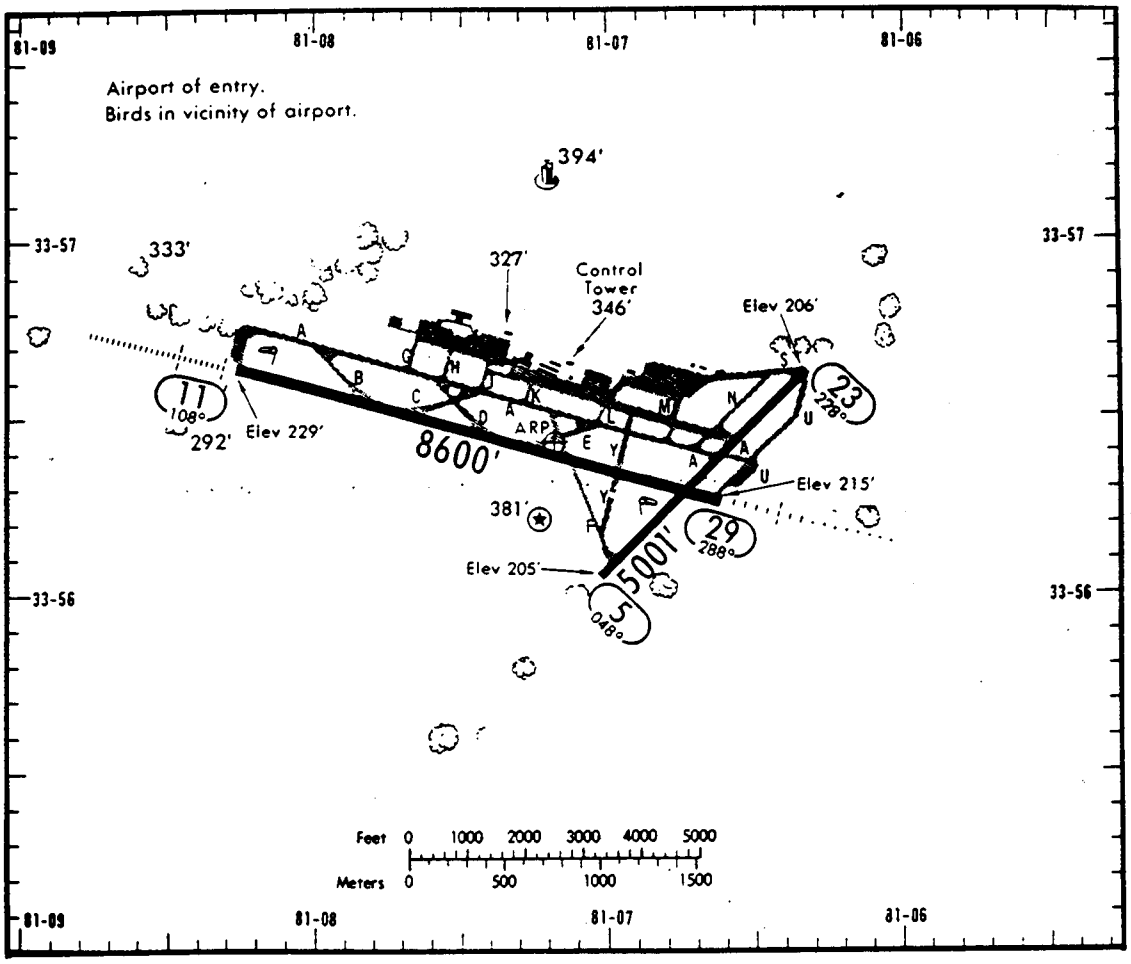
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		2
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	–	
Other	2	
Total Displays		6

FY 93	REPLACE	R/W 05

COLUMBIA SC (CAE)

ASO



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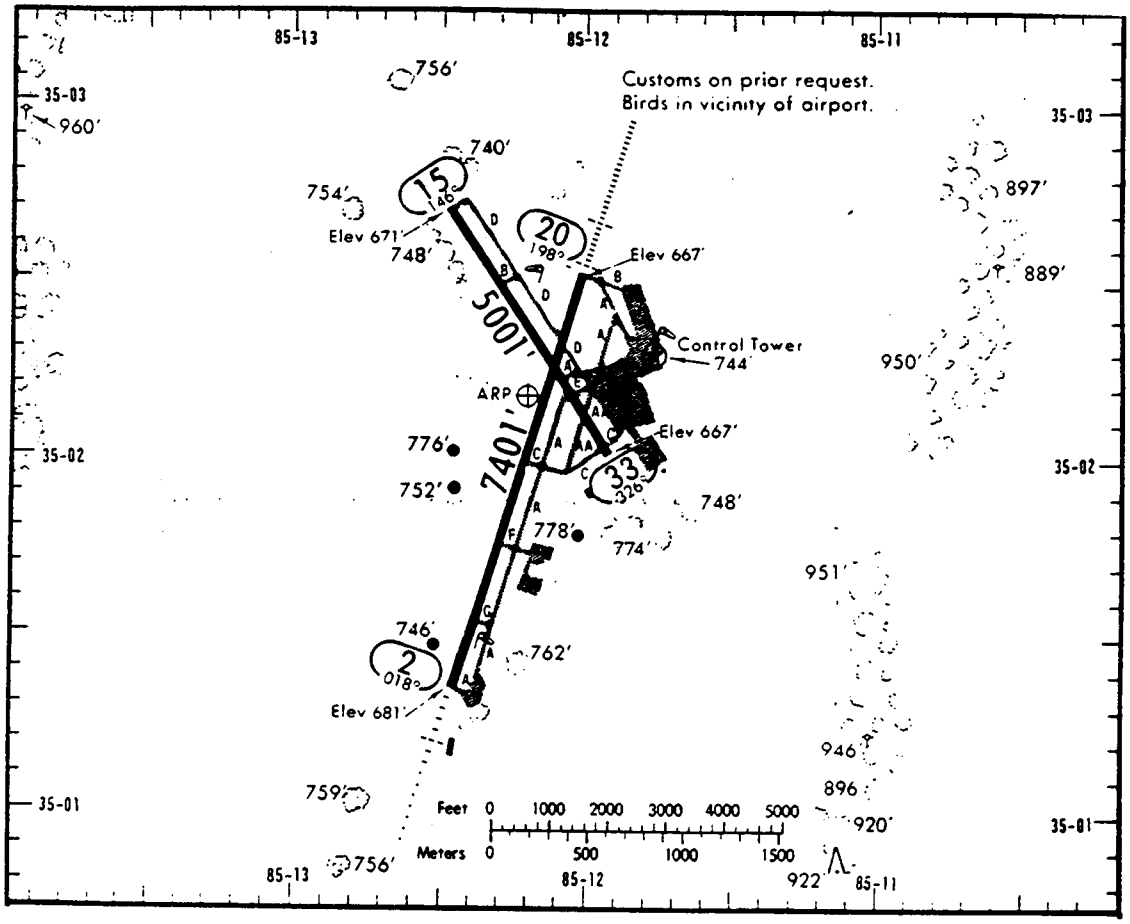
	EXISTING	NEW GENERATION		
11	347AE	System Elements		QTY REQ'D
CAE	TD	Basic		1
CAEA	RO	Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 11

CHATTANOOGA TN (CHA)

ASO



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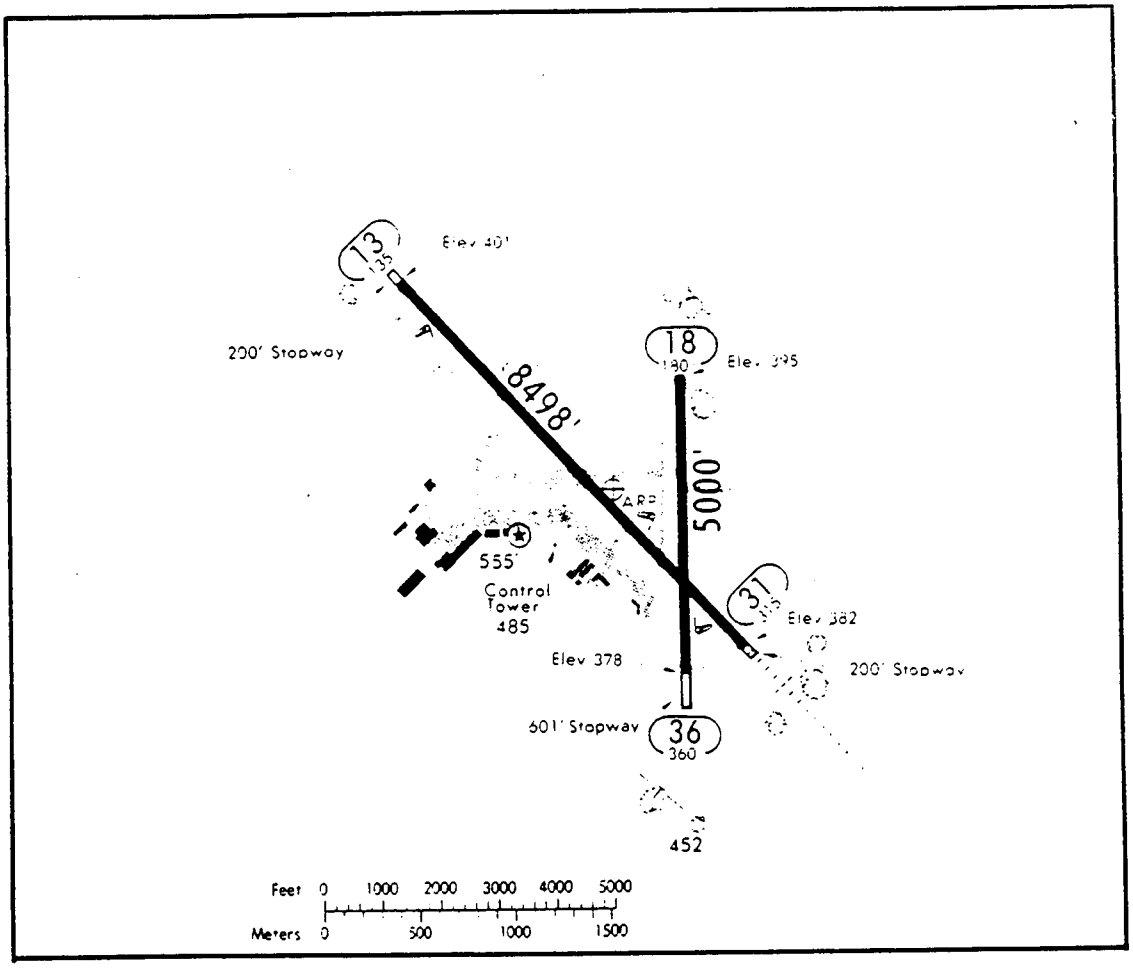
EXISTING		NEW GENERATION		
20	34716	System Elements		QTY REQ'D
CHA	TD	Basic		1
CHAA	RO	Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 20

DOTHAN AL (DHN)

ASO



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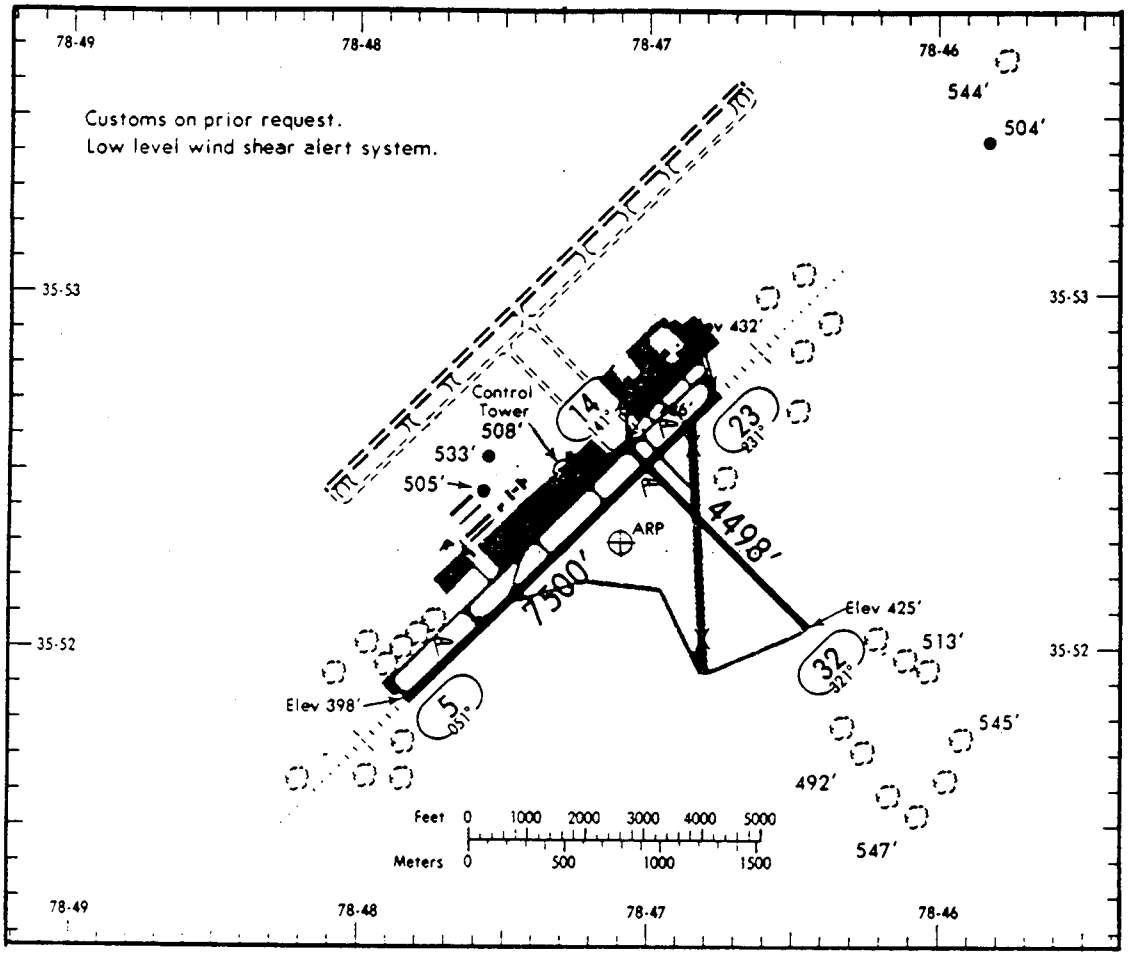
	EXISTING	NEW GENERATION		QTY REQ'D
31	347AE	System Elements		QTY REQ'D
DHN	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	1	
		Total Displays		2

FY 93	REPLACE	R/W 31

RALEIGH NC (RDU)

ASO



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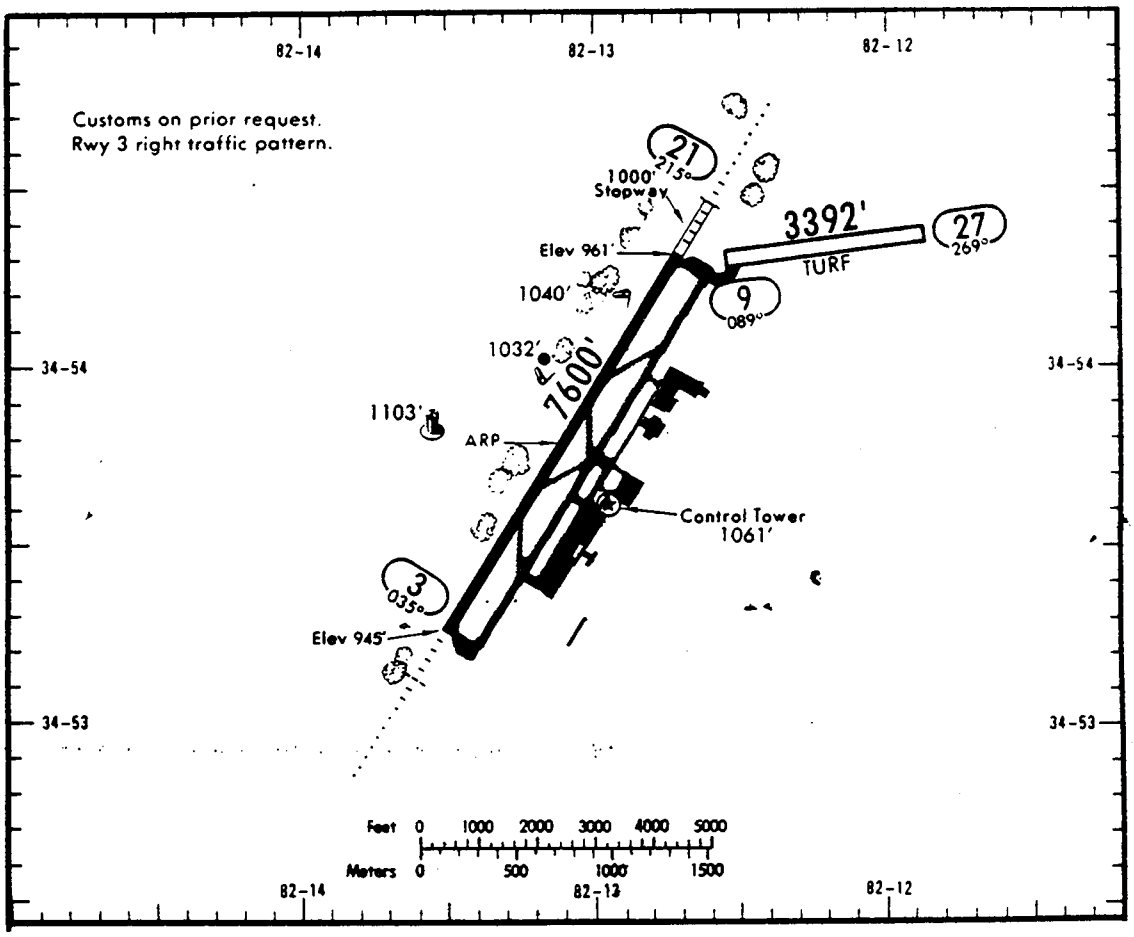
	EXISTING	NEW GENERATION		QTY REQ'D
05R	347AE	System Elements		QTY REQ'D
RDV	TD	Basic		1
		Sensor Packages		3
23R	347AE	RLIM		1
		Displays		
LEIA	TD	ATCT	2	
LEIB	MP	TRACON	4	
LEIC	RO	NWS	1	
		Other	–	
		Total Displays		7

FY 93	REPLACE	R/W 5R, 23R

GREER SC (GSP)

ASO



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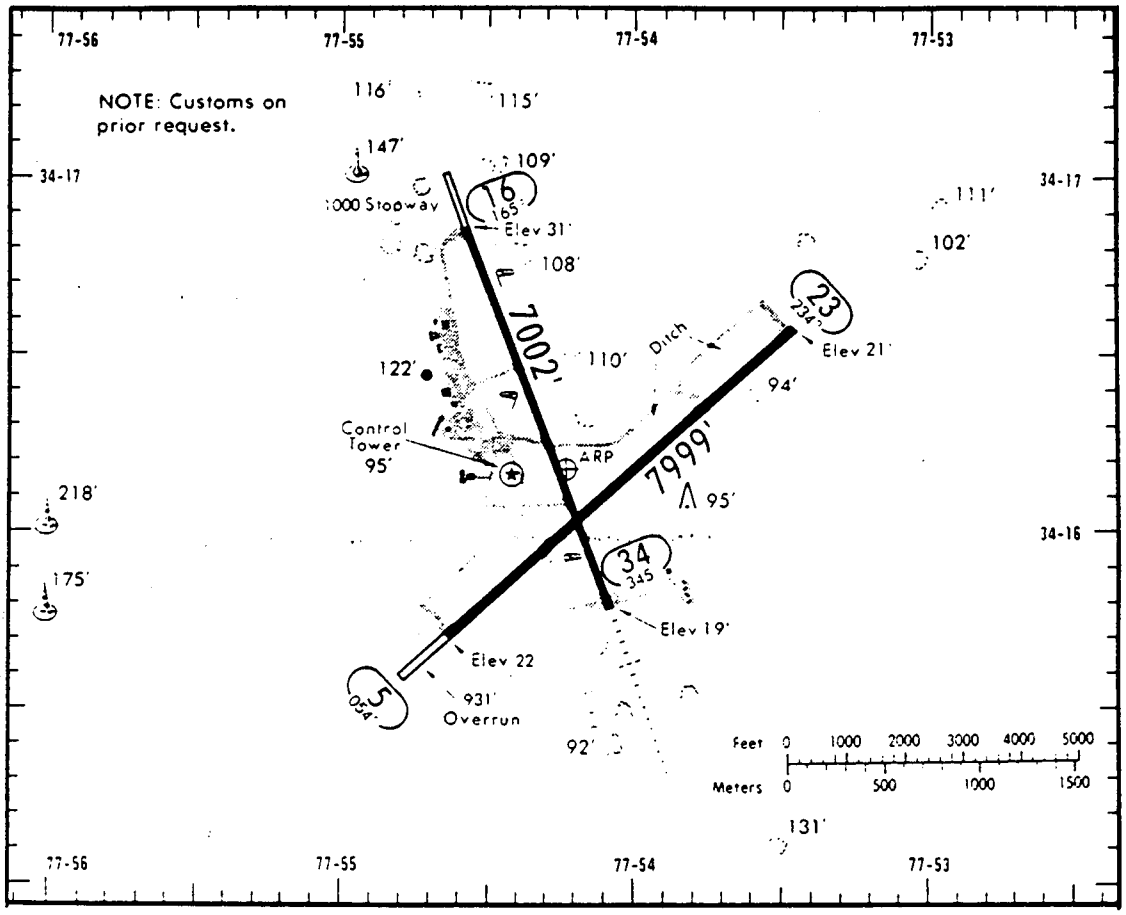
	EXISTING	NEW GENERATION
03	347AE	
GSP	TD	
GSPA	RO	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	1	
TRACON	2	
NWS	1	
Other	–	
Total Displays		4

FY 93	REPLACE	R/W 03

WILMINGTON NC (ILM)

ASO



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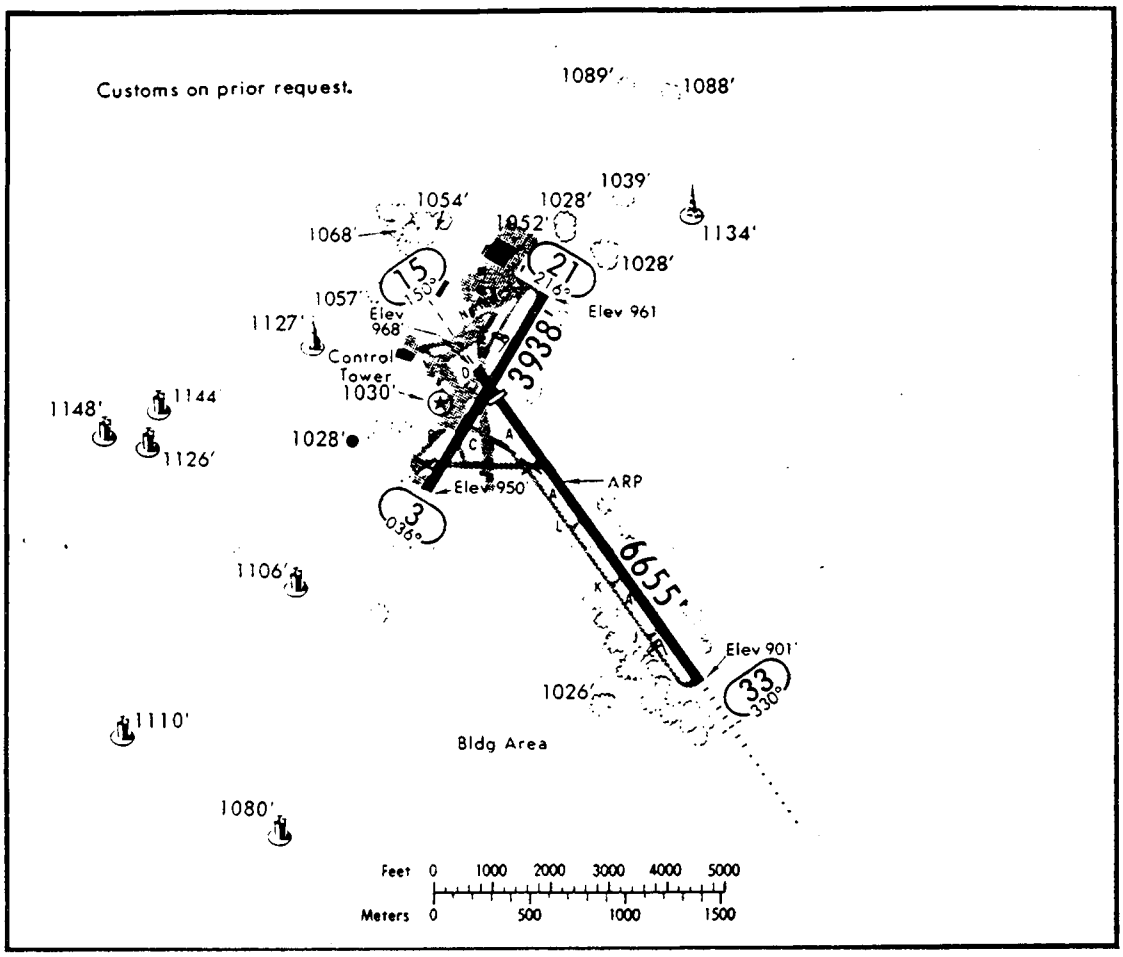
EXISTING		NEW GENERATION		
34	347AE	System Elements		QTY REQ'D
ILM	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 34

WINSTON SALEM NC (INT)

ASO



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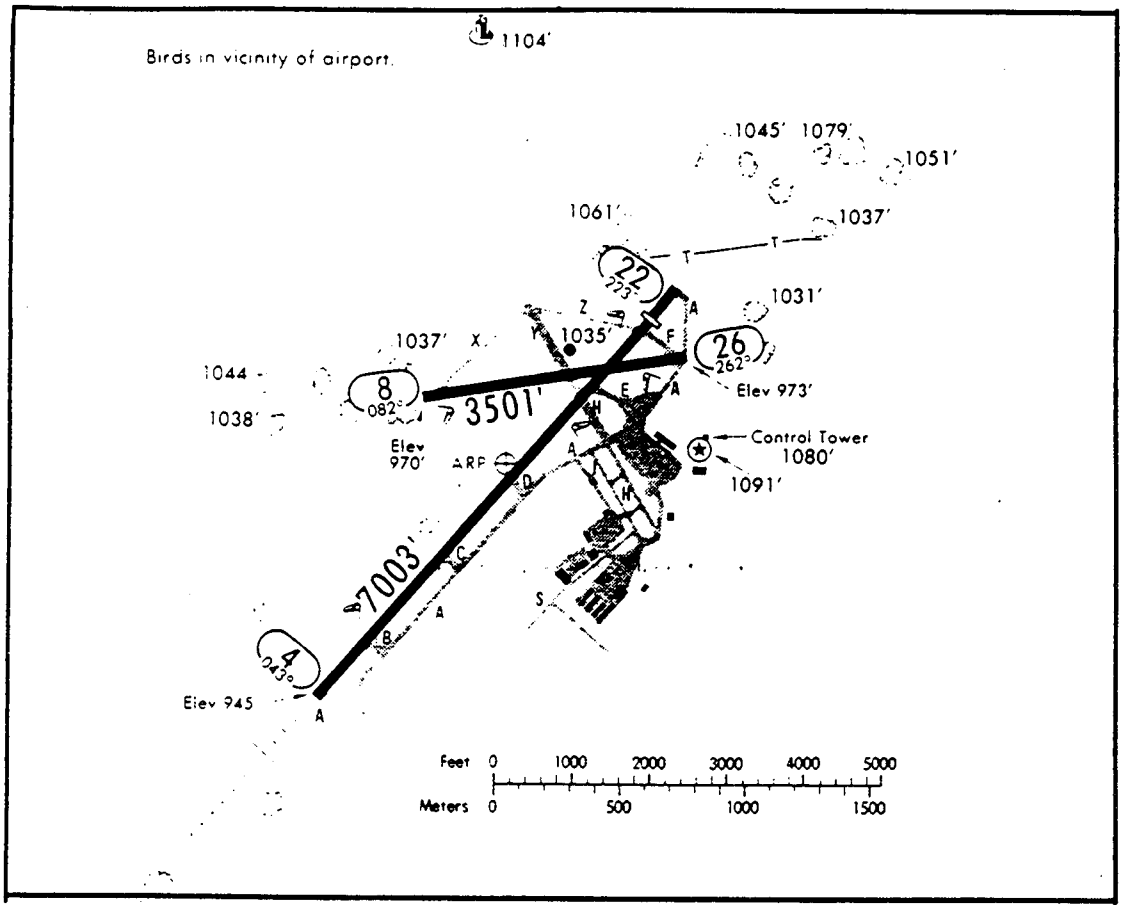
	EXISTING	NEW GENERATION		
33	34716	System Elements		QTY REQ'D
INT	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		1

FY 93	REPLACE	R/W 33

LEXINGTON KY (LEX)

ASO



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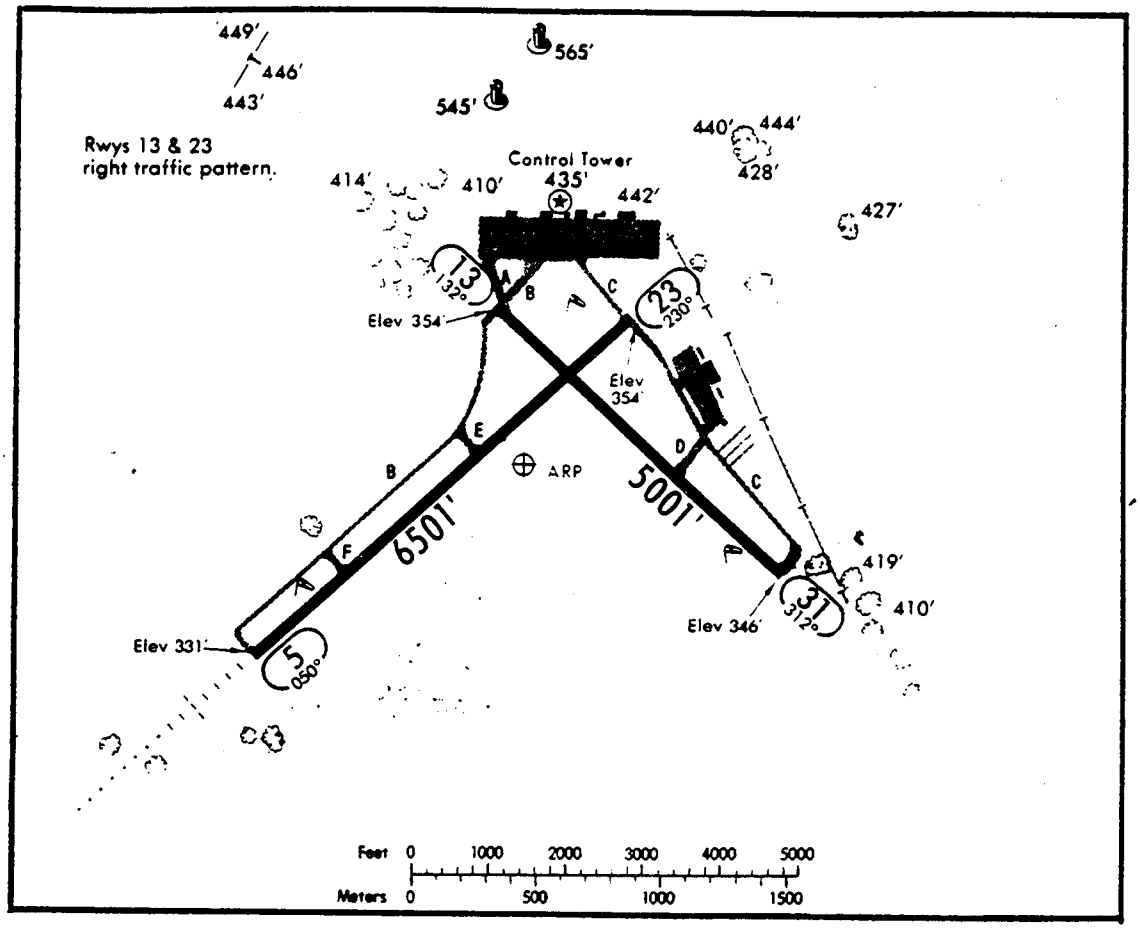
	EXISTING	NEW GENERATION		
04	347AE	System Elements		QTY REQ'D
LEX	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 04

MACON GA (MCN)

ASO



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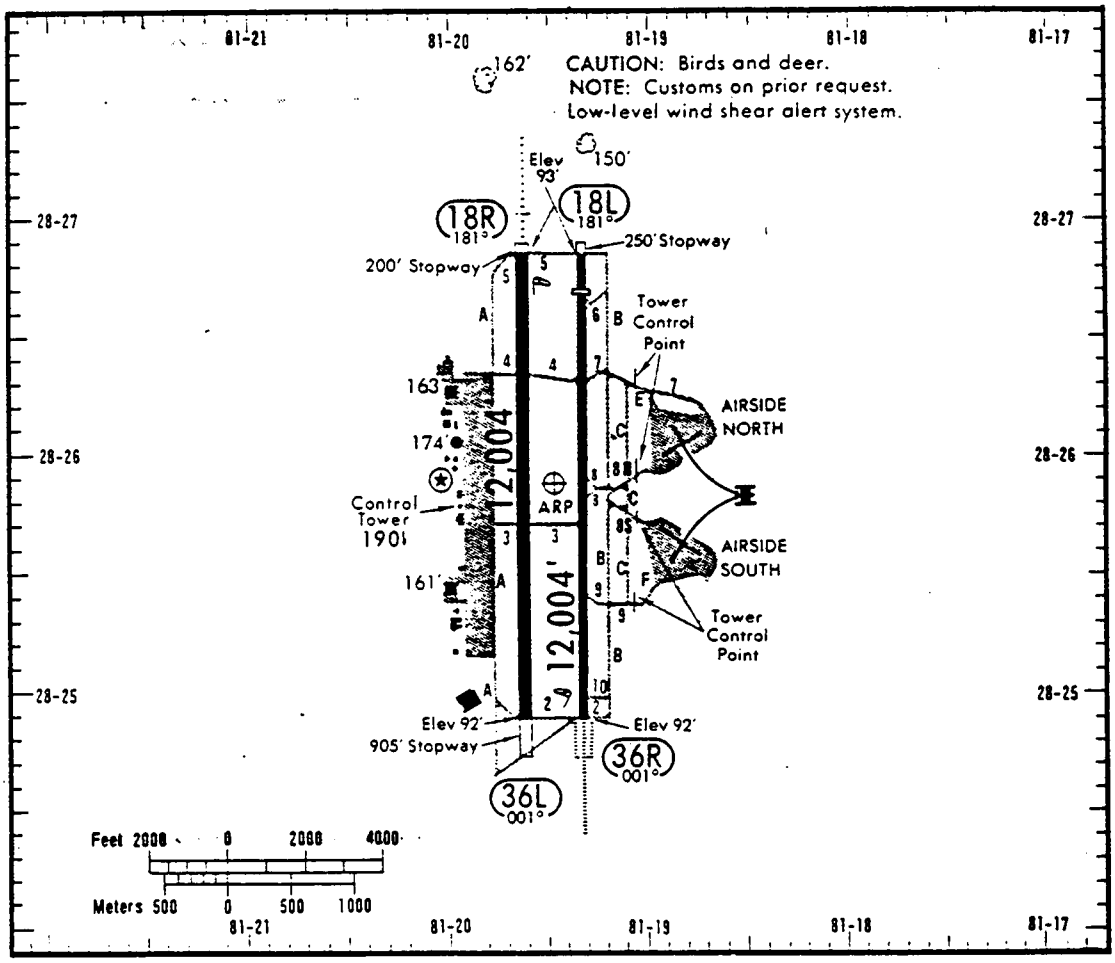
	EXISTING	NEW GENERATION		
05	347AE	System Elements		QTY REQ'D
MCN	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 05

ORLANDO FL (MCO)

ASO



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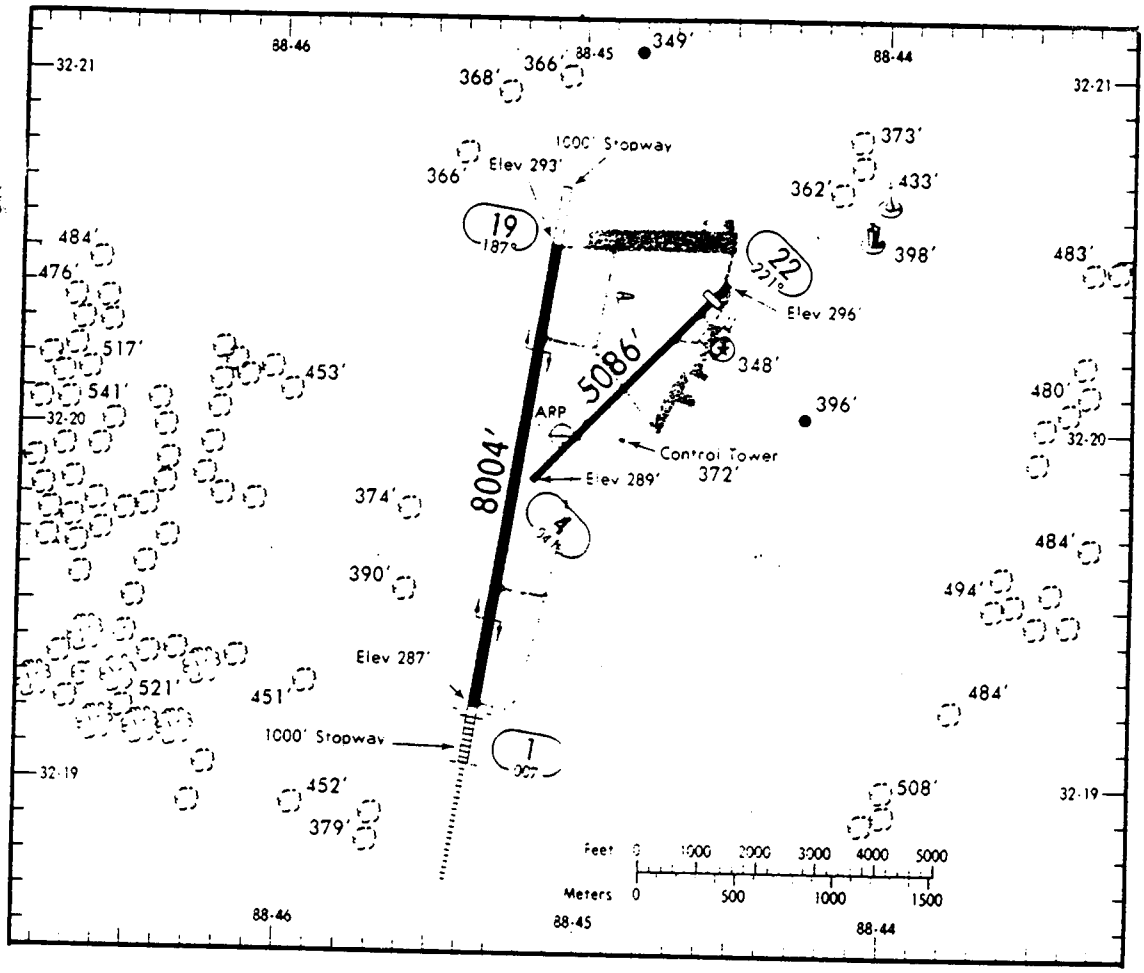
EXISTING		NEW GENERATION	
36R	347AE	System Elements	QTY REQ'D
MCOB	TD	Basic	1
MCOC	MP	Sensor Packages	2
MCOD	RO	RLIM	–
		Displays	
		ATCT –	
		TRACON –	
		NWS –	
		Other –	
		Total Displays	0

FY 93	REPLACE	R/W 36R

MERIDIAN MS (MEI)

ASO



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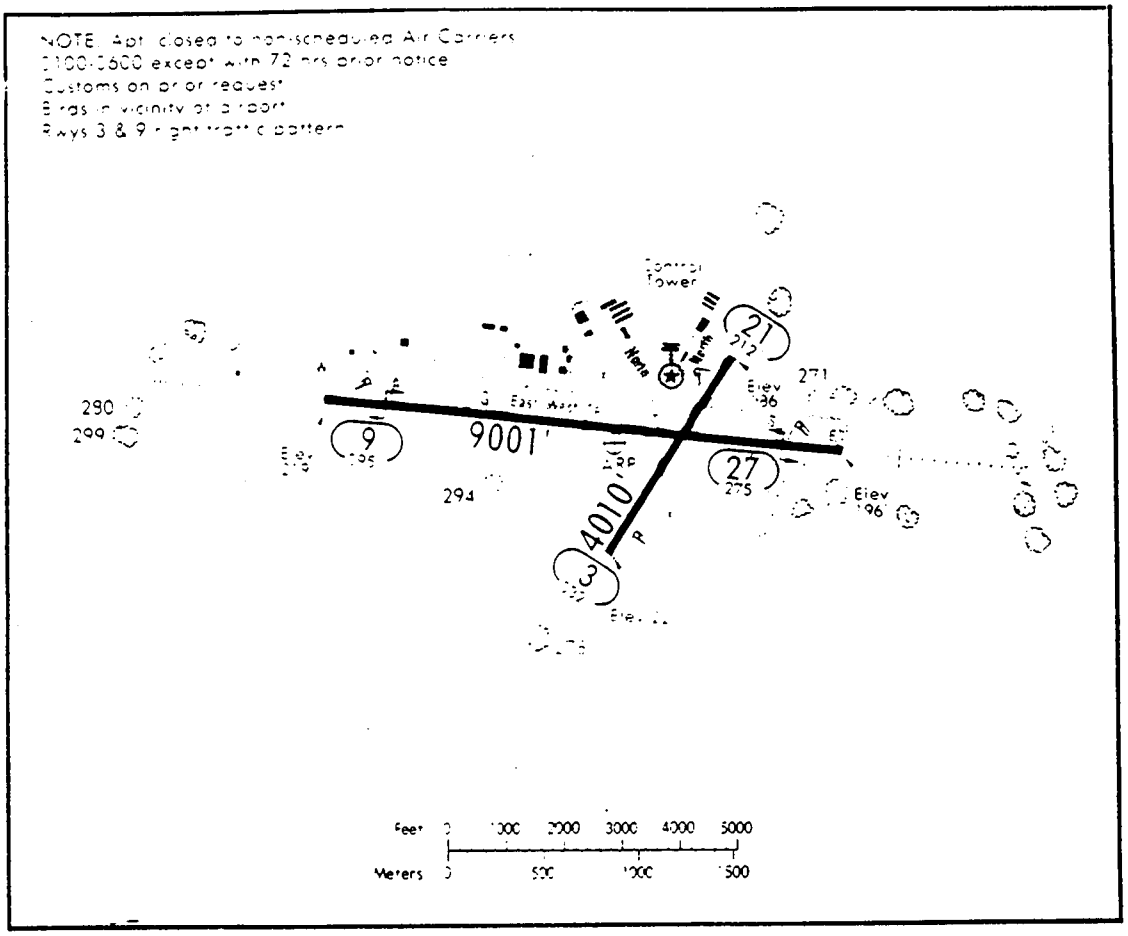
	EXISTING	NEW GENERATION
01	347AE	
MEI	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	1	
NWS	1	
Other	1	
Total Displays		4

FY 93	REPLACE	R/W 01

MONTGOMERY AL (MGM)

ASO



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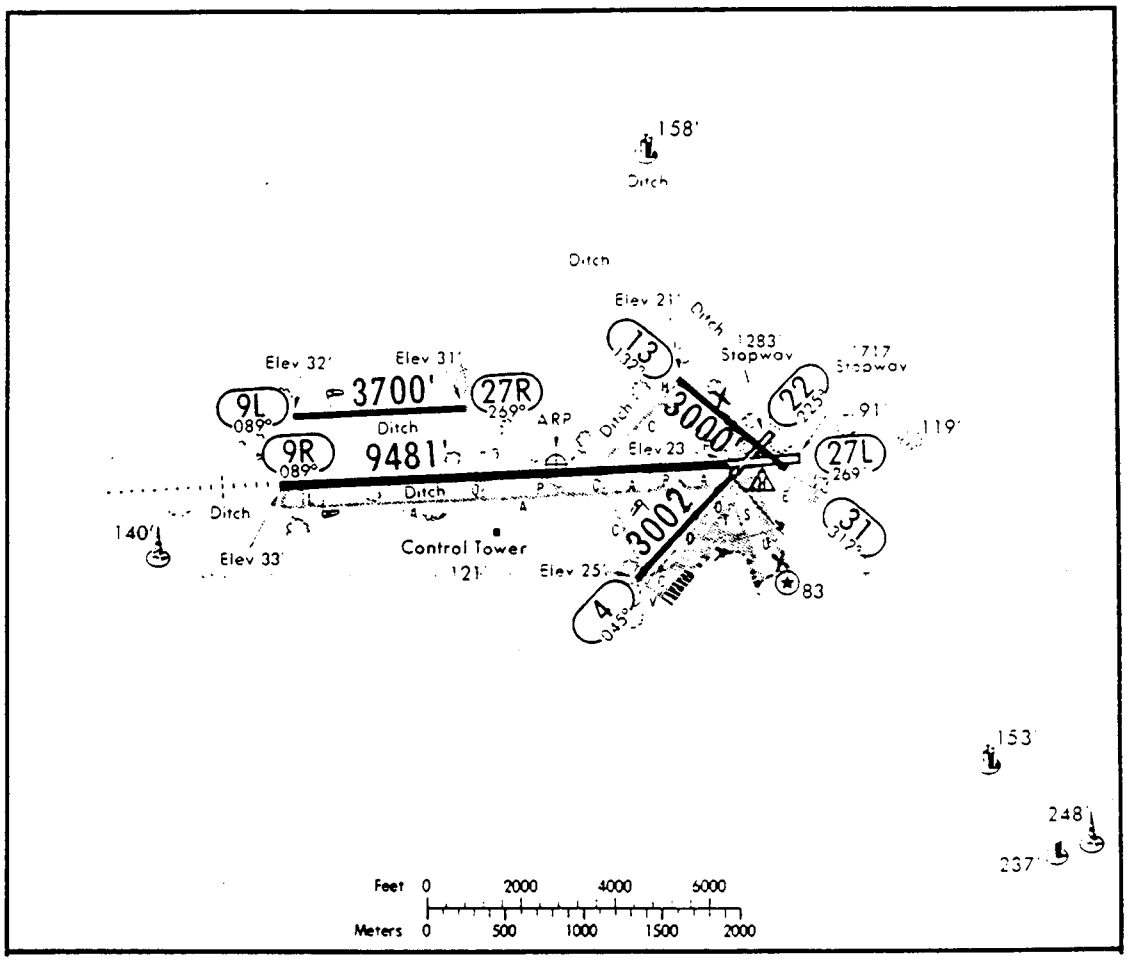
	EXISTING	NEW GENERATION		
09	347AA	System Elements		QTY REQ'D
MGM	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	7	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		10

FY 93	REPLACE	R/W 09

MELBOURNE FL (MLB)

ASO



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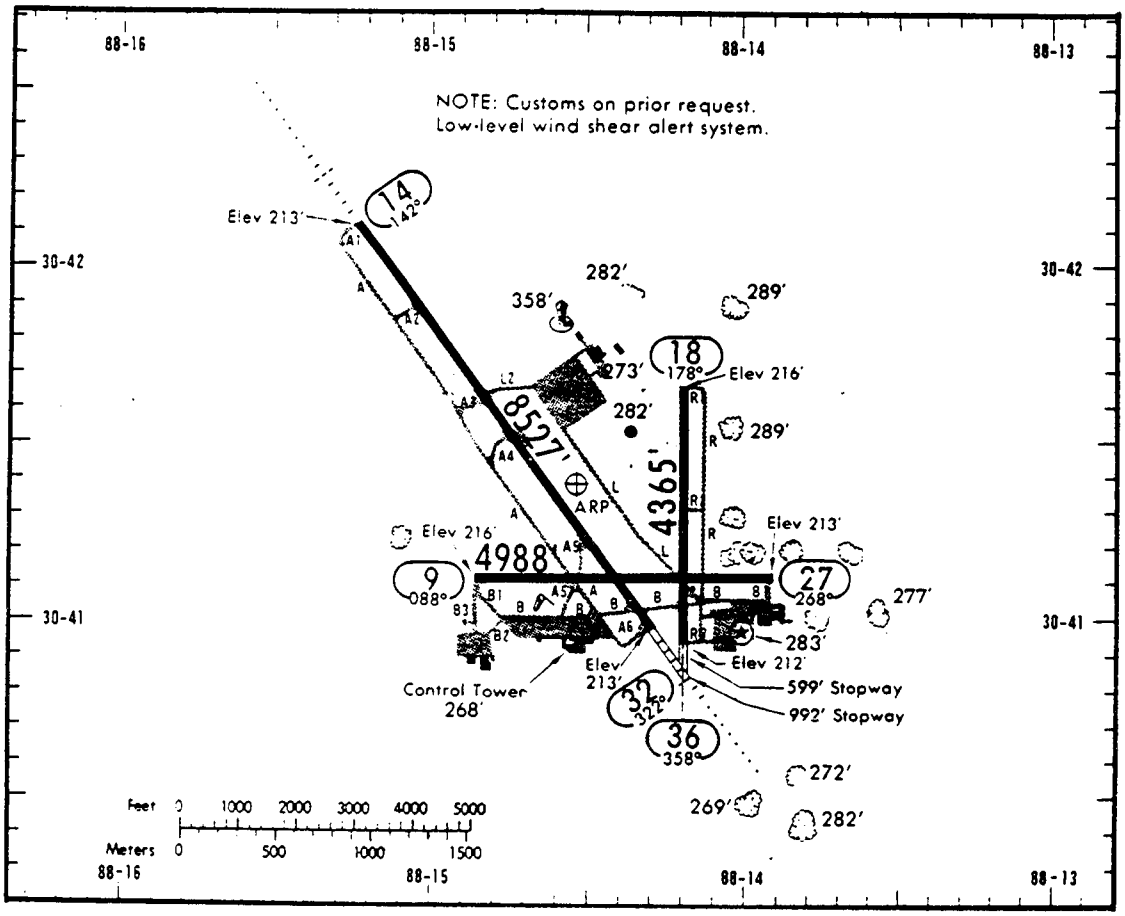
	EXISTING	NEW GENERATION		
09R	347AE	System Elements		QTY REQ'D
MLB	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	1	
		Total Displays		3

FY 93	REPLACE	R/W 09R

MOBILE AL (MOB)

ASO



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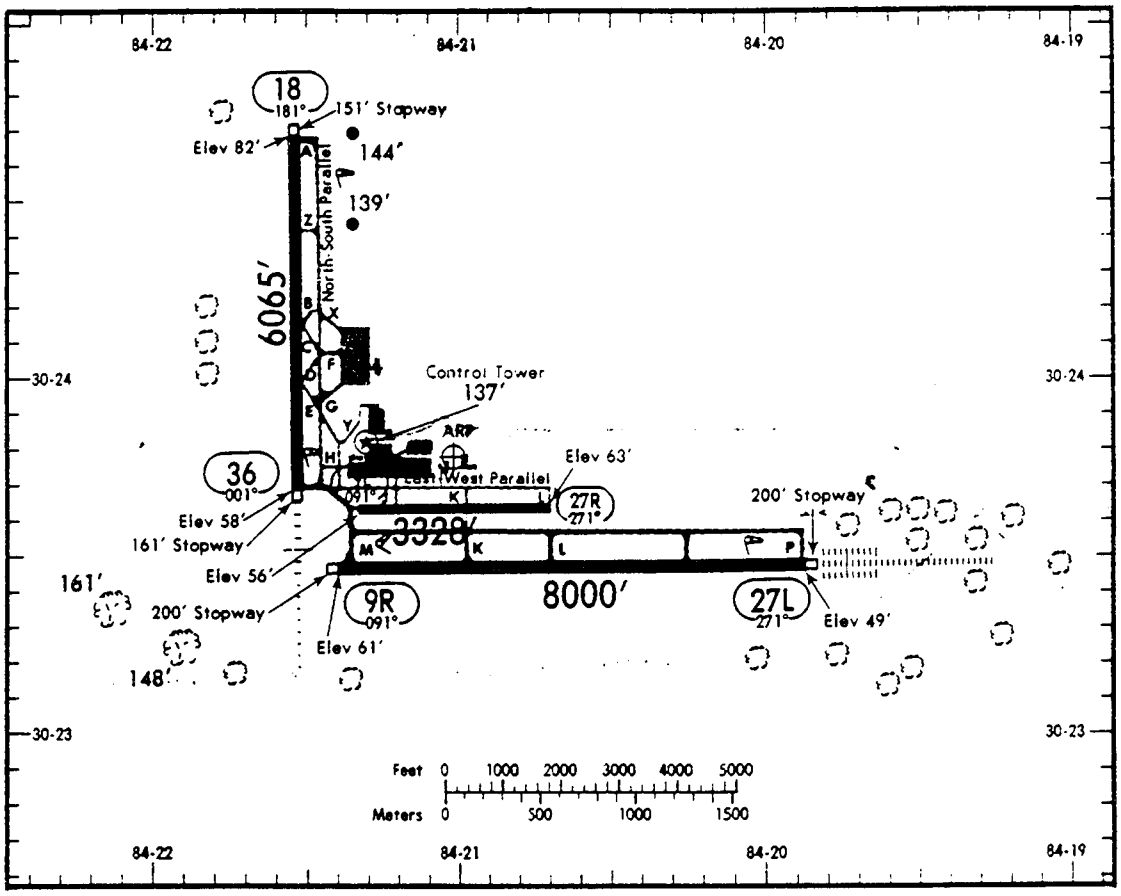
	EXISTING	NEW GENERATION
14	347AE	
MSB	TD	

System Elements		QTY REQ'D
Basic		2
Sensor Packages		1
RLIM		–
Displays		
ATCT	7	
TRACON	2	
NWS	1	
Other	–	
Total Displays		10

FY 93	REPLACE	R/W 14

TALLAHASSEE FL (TLH)

ASO



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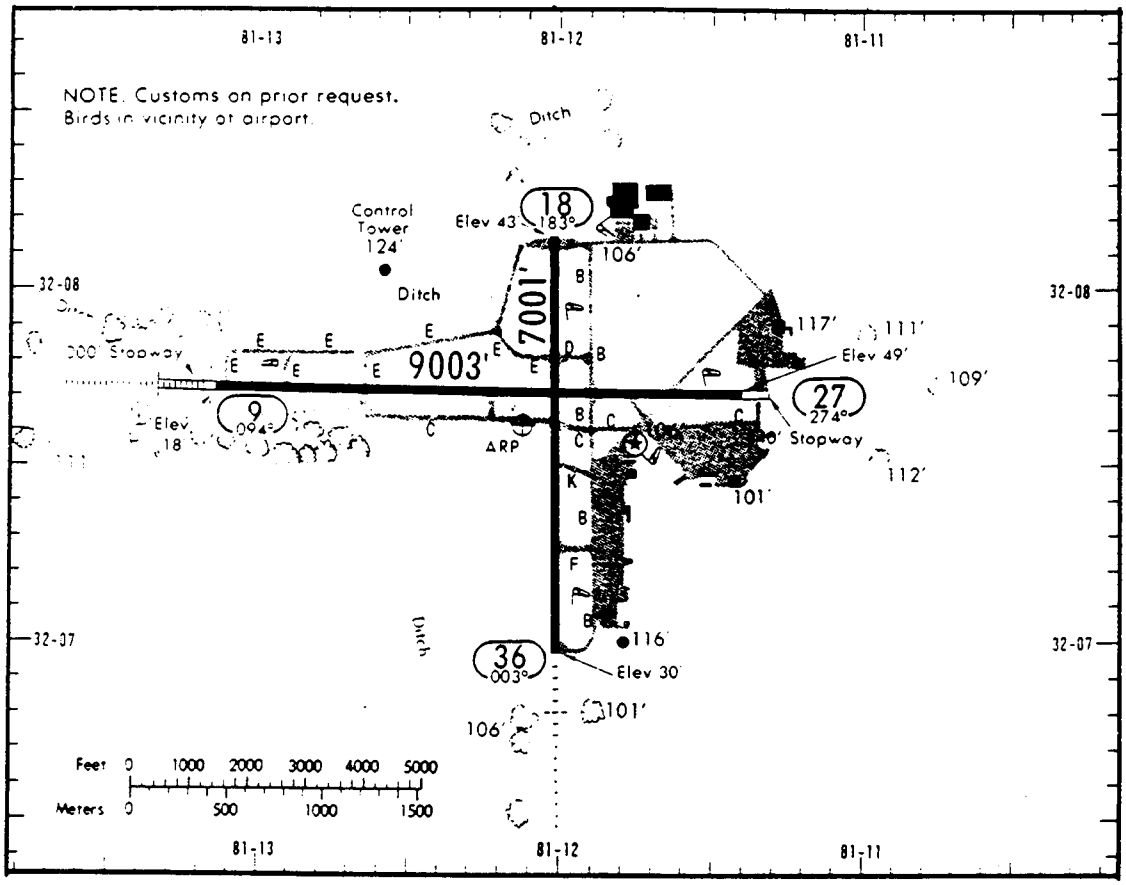
EXISTING		NEW GENERATION		
27	347AE	System Elements		QTY REQ'D
PLQ	TD	Basic		1
PLQA	RO	Sensor Packages		2
		RLIM		1
36	347AE	Displays		
		ATCT	1	
TLH	TD	TRACON	3	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 27L, 36

SAVANNAH GA (SAV)

ASO



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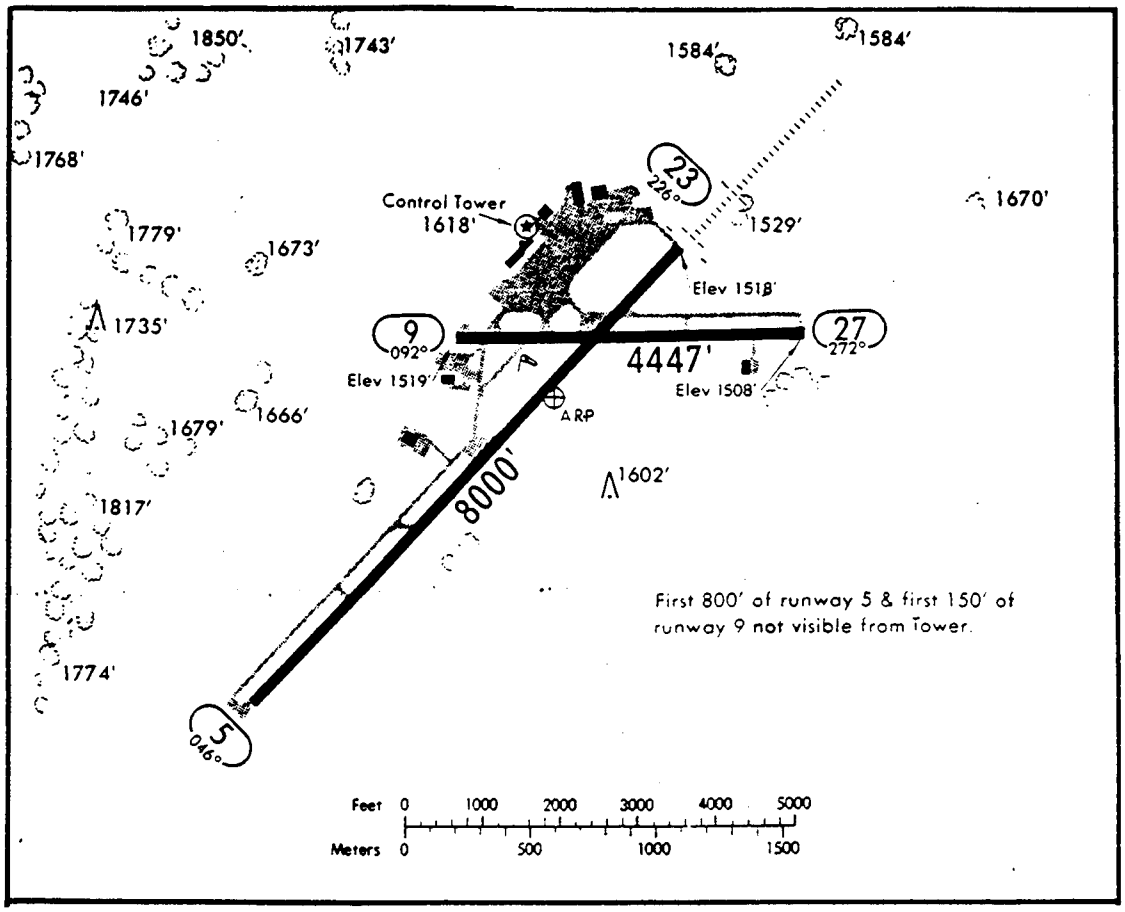
EXISTING		NEW GENERATION	
09	347AE	System Elements	QTY REQ'D
SAV	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT 1	
		TRACON 3	
		NWS 1	
		Other –	
		Total Displays	5

FY 93	REPLACE	R/W 09

BRISTOL (TRI-CITY) TN (TRI)

ASO



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	EXISTING	NEW GENERATION		
23	347AE	System Elements		QTY REQ'D
TRI	TD	Basic		1
TRIA	RO	Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 23

APPENDIX 8. ASW SITE LOCATIONS

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT.	TD, MP, RO (AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

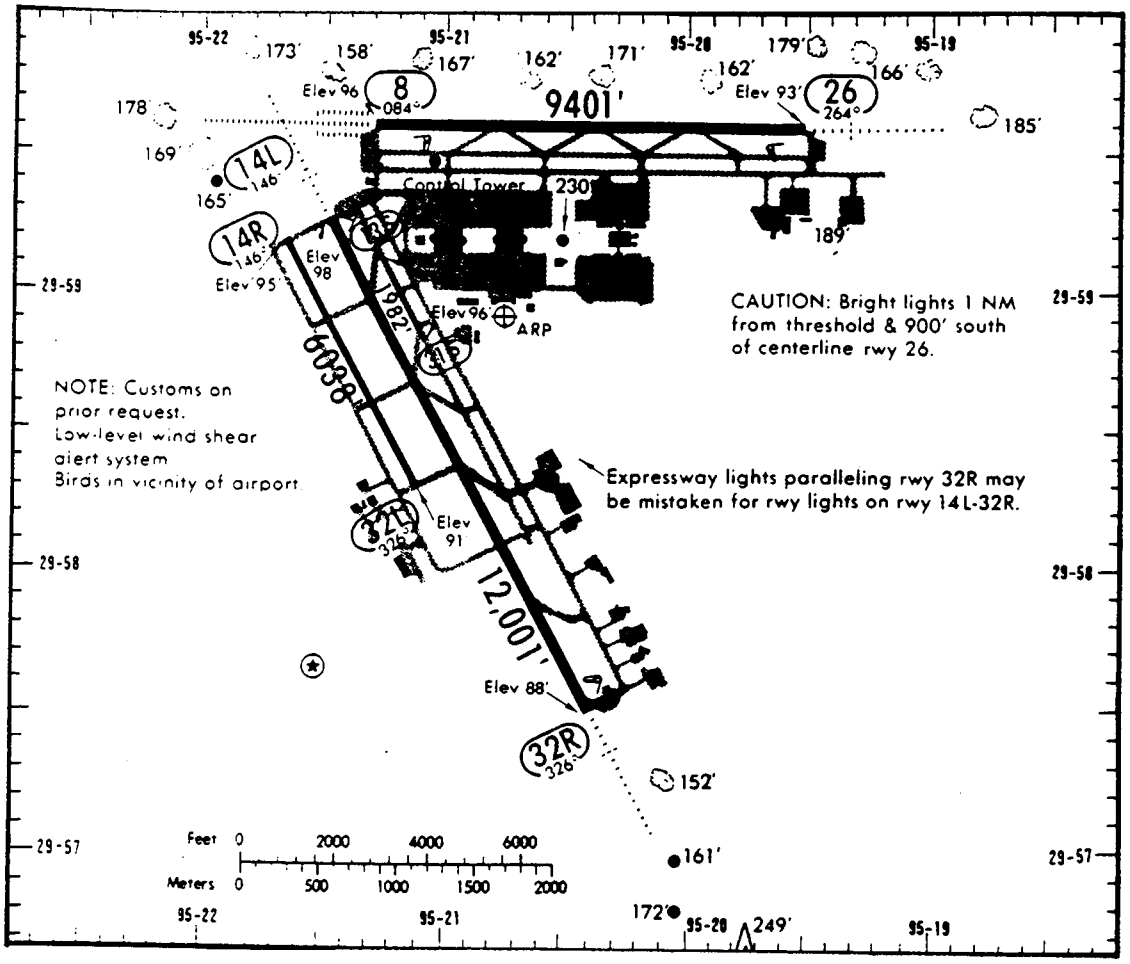
NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

HOUSTON TX (IAH)

ASW



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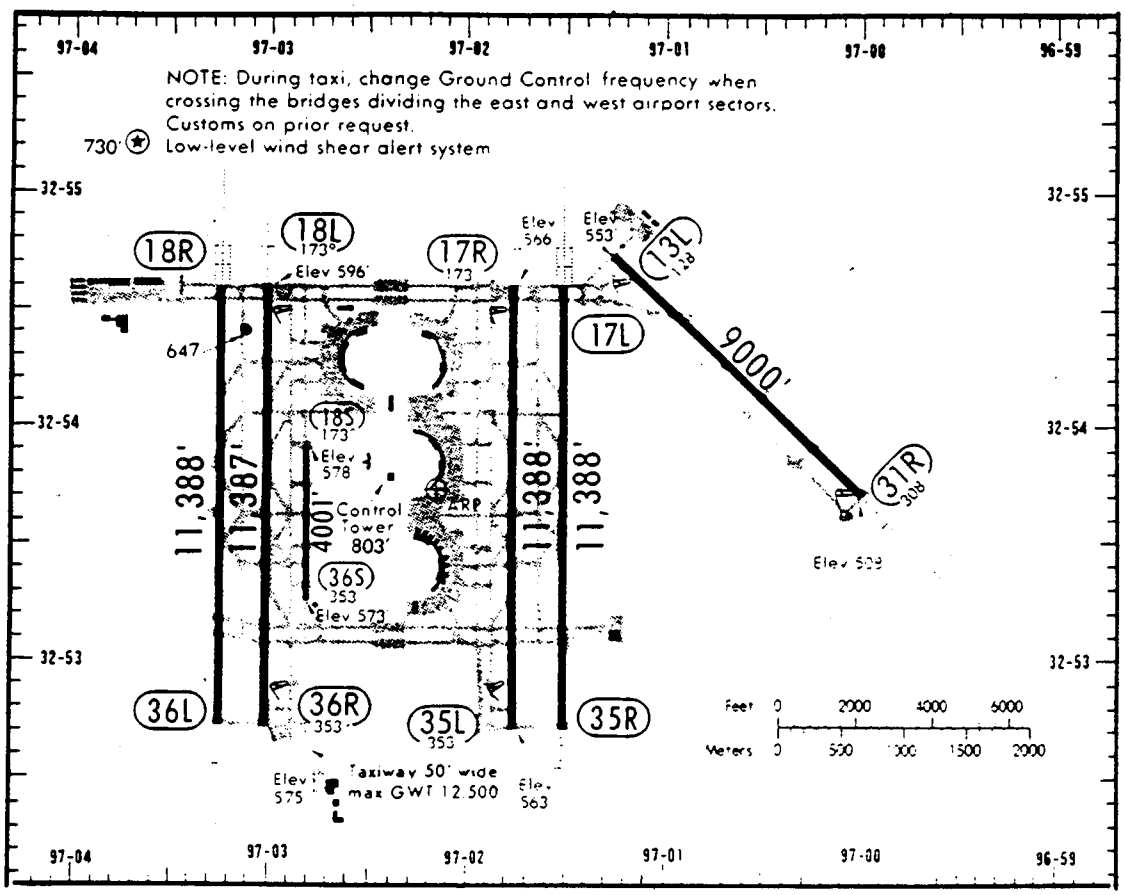
EXISTING				NEW GENERATION		
32R	347AE	08	34716	System Elements		QTY REQ'D
CDG	TD	1AHB	RO	Basic		1
				Sensor Packages		7
14L	347AE	27	347AE	RLIM		2
				Displays		
HSQ	TD	GHI	TD	ATCT	2	
		GHIA	MP	TRACON	7	
08	347AE	GHIB	RO	NWS	1	
				Other	11	
IAH	TD					
IAHA	MP			Total Displays		21

FY 84	CAT IIIb	R/W 08
FY 85	ESTABLISH	R/W 09
FY 85	ESTABLISH	R/W 27

DALLAS/FT. WORTH (DFW)

ASW



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EXISTING

36L	347AD	VYN	TD
		VYNA	MP
RXN	TD		
		13R	34715
17L	347AD	LWN	TD
FLO	TD	31L	34715
FLOA	MP	LWNA	RO
35R	347AD		
PKQ	TD		
18R	347AD		

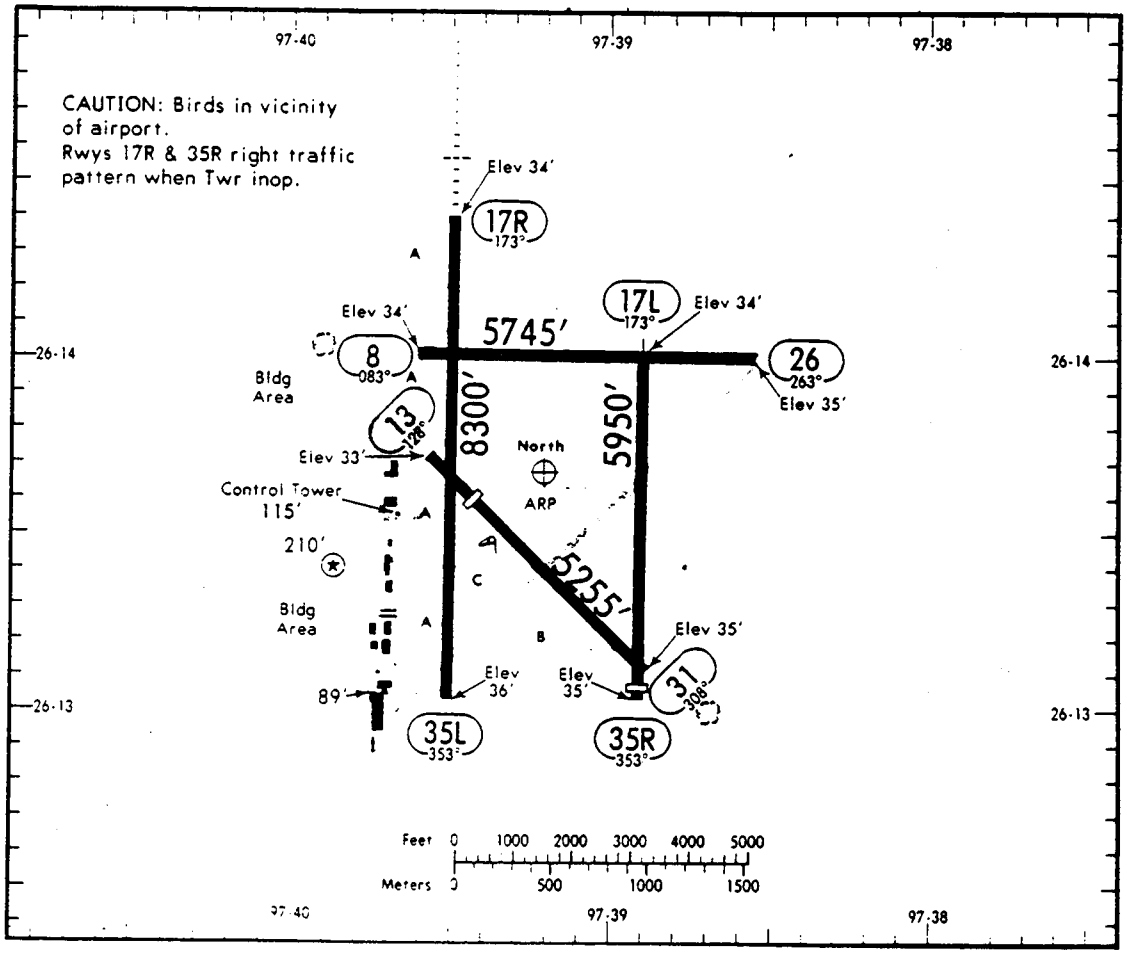
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		9
RLIM		6
Displays		
ATCT	15	
TRACON	10	
NWS	2	
Other	–	
Total Displays		27

FY 85	ESTABLISH	R/W 13R
FY 86	REPLACE	R/W 17L, 18R

HARLINGEN TX (HRL)

ASW



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EXISTING

NONE

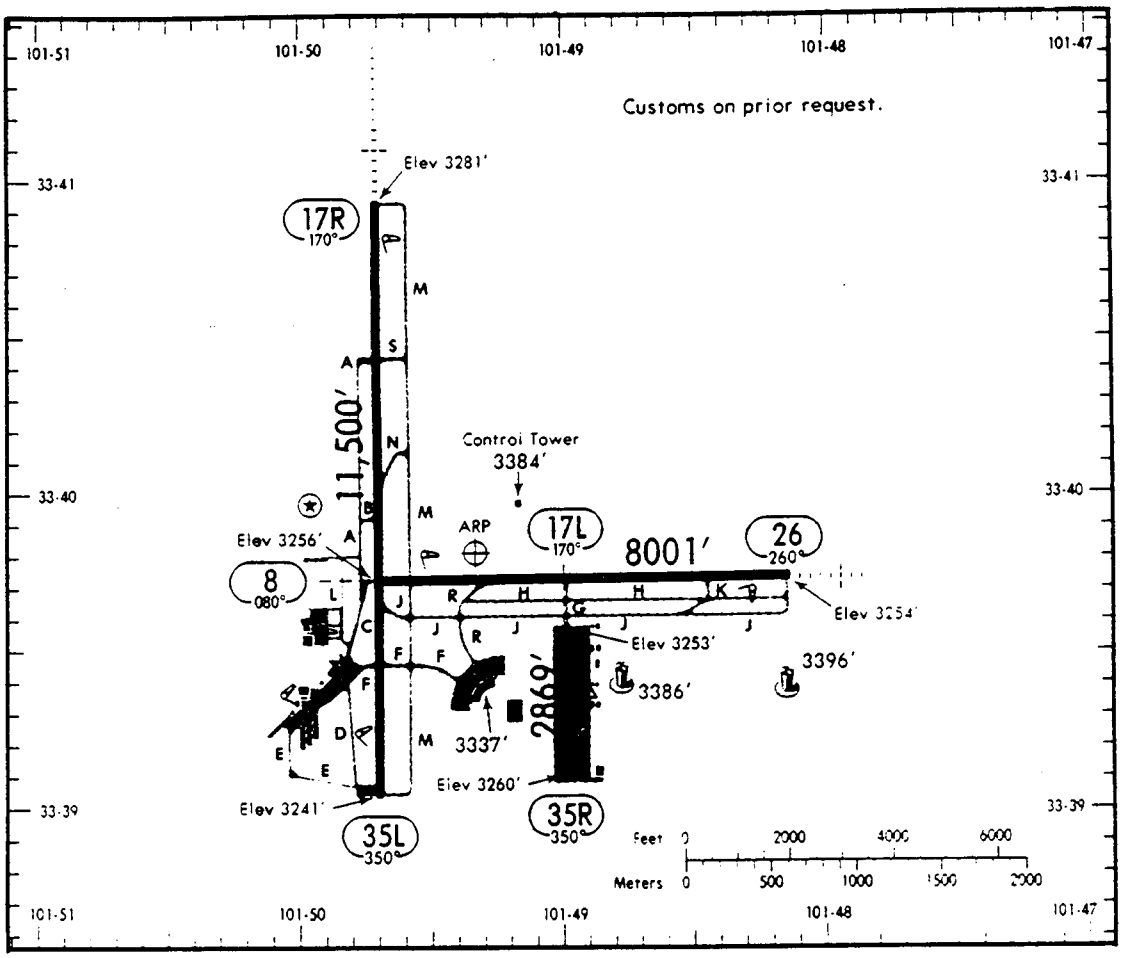
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 17R

LUBBOCK TX (LBB)

ASW



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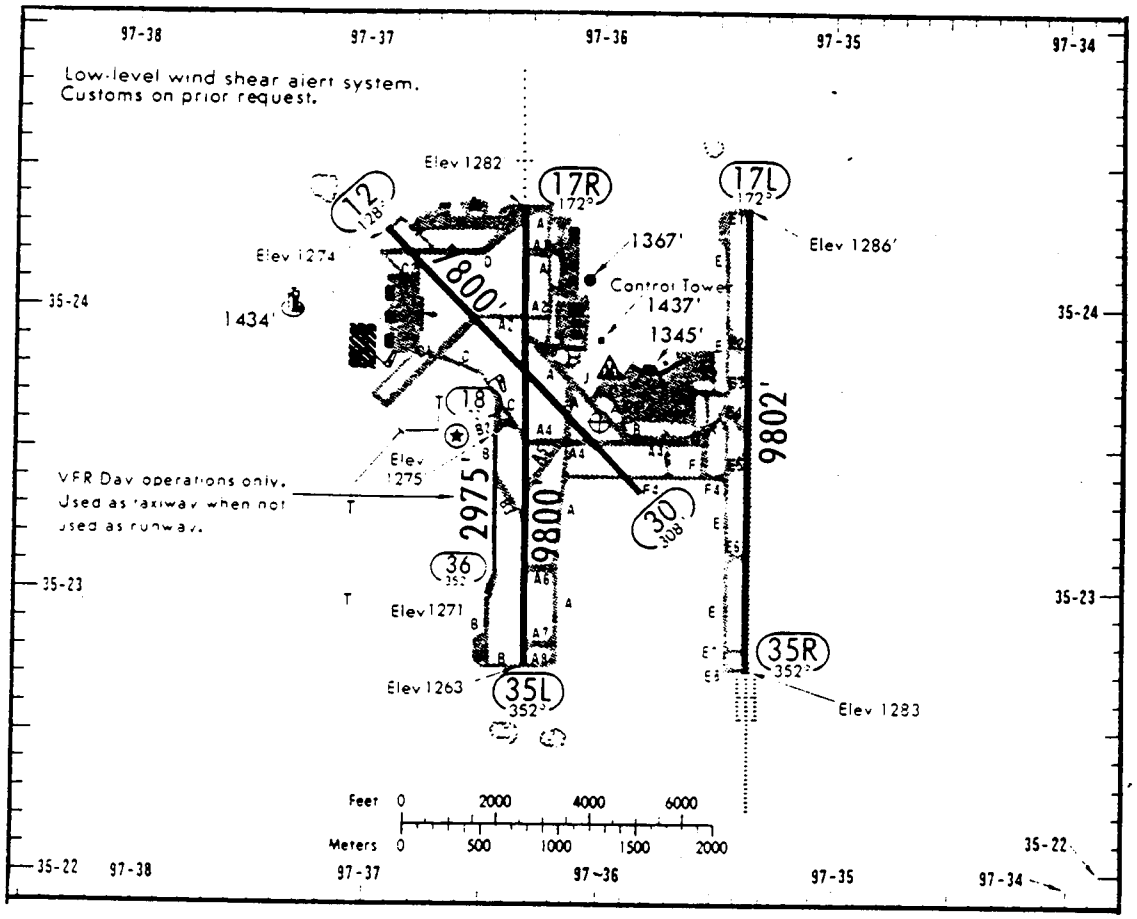
	EXISTING	NEW GENERATION		
17R	347AC	System Elements		QTY REQ'D
LBB	TD	Basic		1
		Sensor Packages		1
		RLIM		1
		Displays		
		ATCT	1	
		TRACON	1	
		NWS	1	
		Other	–	
		Total Displays		3

FY 84	ESTABLISH	R/W 26

OKLAHOMA CITY OK (OKC)

ASW



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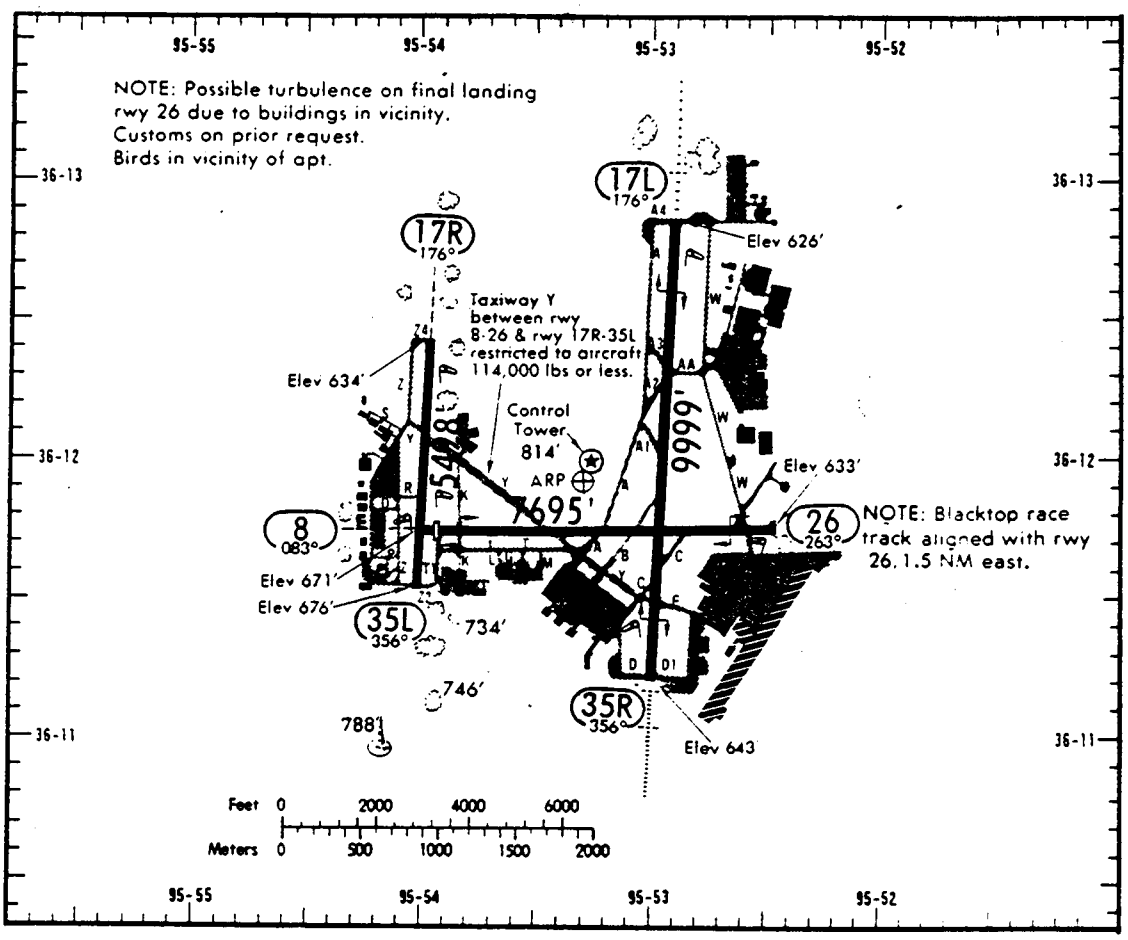
	EXISTING	NEW GENERATION
35R	347AC	
RGR	TD	
RGRA	RO	
RGRB	MP	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	4	
TRACON	4	
NWS	1	
Other	–	
Total Displays		9

FY 84	ESTABLISH	R/W 17L
FY 86	REPLACE	R/W 35R

TULSA OK (TUL)

ASW



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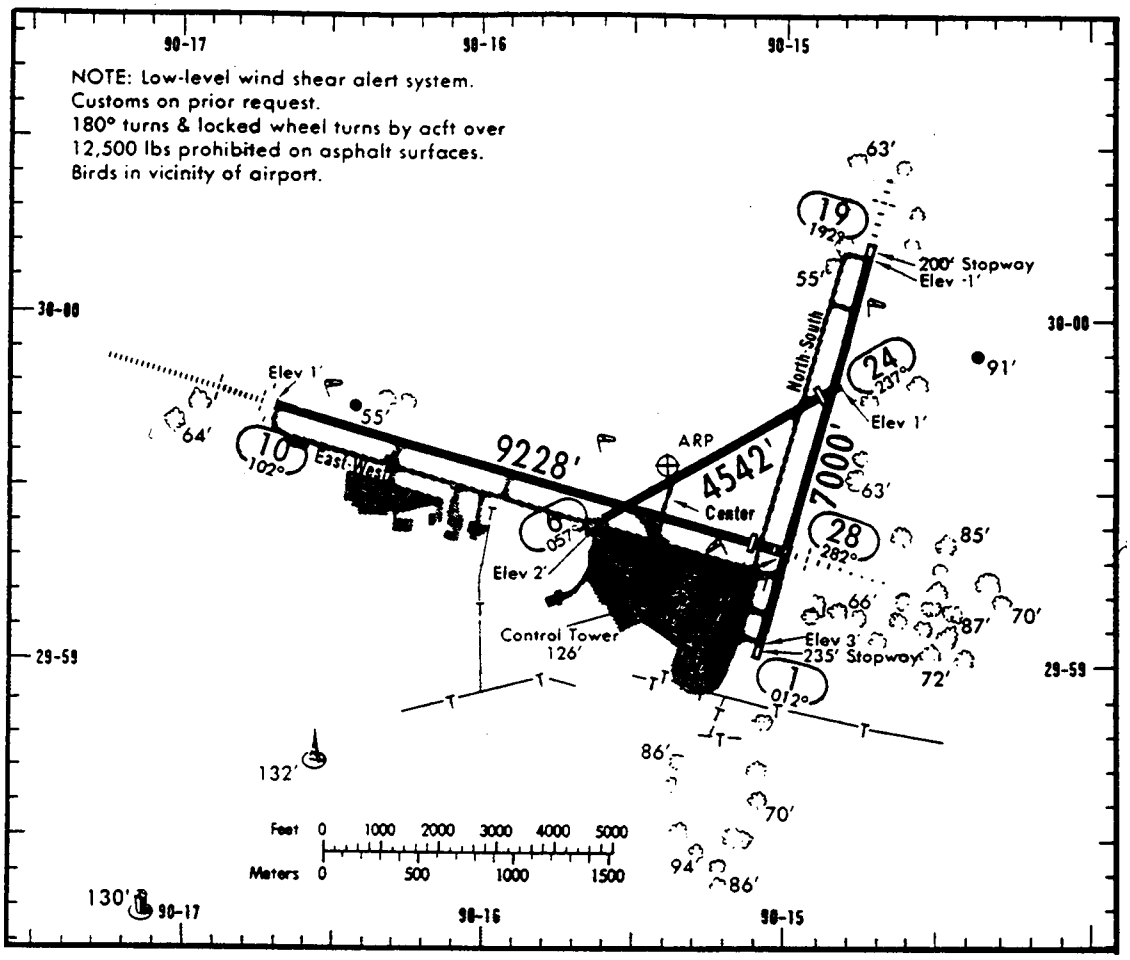
	EXISTING	NEW GENERATION
35R	34715	
TUL	TD	
TULA	RO	
TULB	MP	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		2
RLIM		–
Displays		
ATCT	3	
TRACON	3	
NWS	1	
Other	–	
Total Displays		7

FY 84	REPLACE	R/W 35R

NEW ORLEANS (MOISANT) LA (MSY)

ASW



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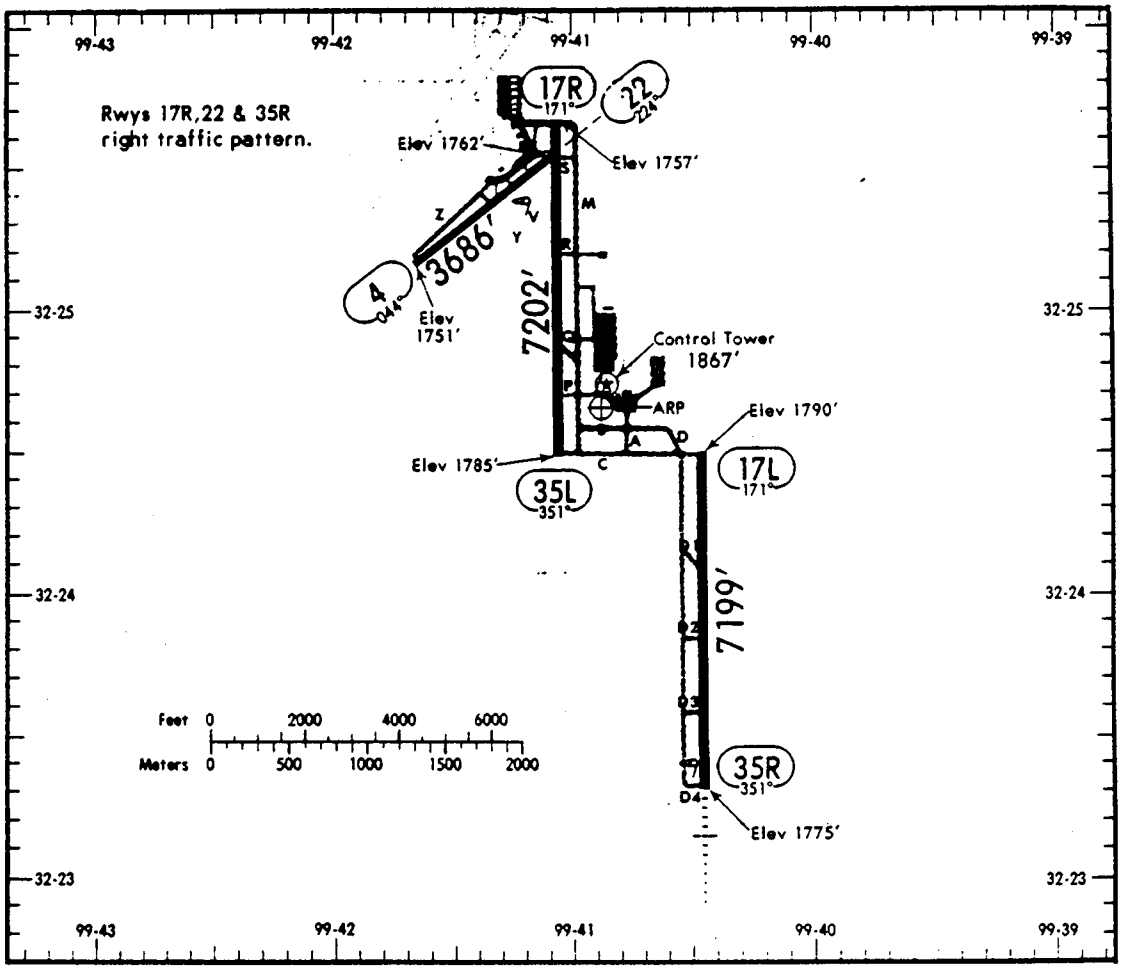
EXISTING	
01	347AC
JFIA	RO
01	347AD
JFI	TD
10	347AD
MSY	TD
MSYA	RO
MSYB	MP

NEW GENERATION		
System Elements		QTY REQ'D
Basic		1
Sensor Packages		4
RLIM		1
Displays		
ATCT	3	
TRACON	4	
NWS	1	
Other	–	
Total Displays		8

FY 85	REPLACE	R/W 10

ABILENE TX (ABI) ASW



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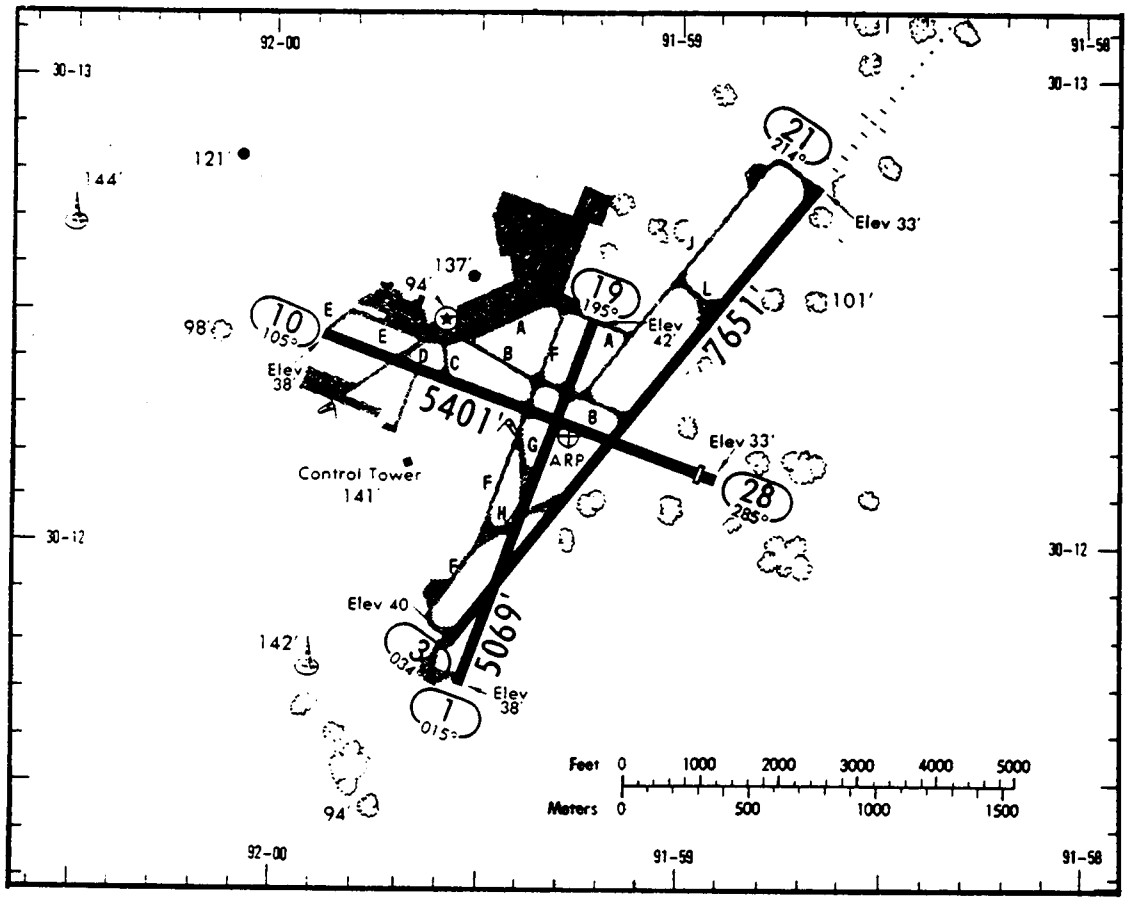
	EXISTING	NEW GENERATION		
35R	347AG	System Elements		QTY REQ'D
ABI	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 85	CONVERT RVV	R/W 35R

LAFAYETTE LA (LFT)

ACE



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	EXISTING
21	347AG
LFT	TD

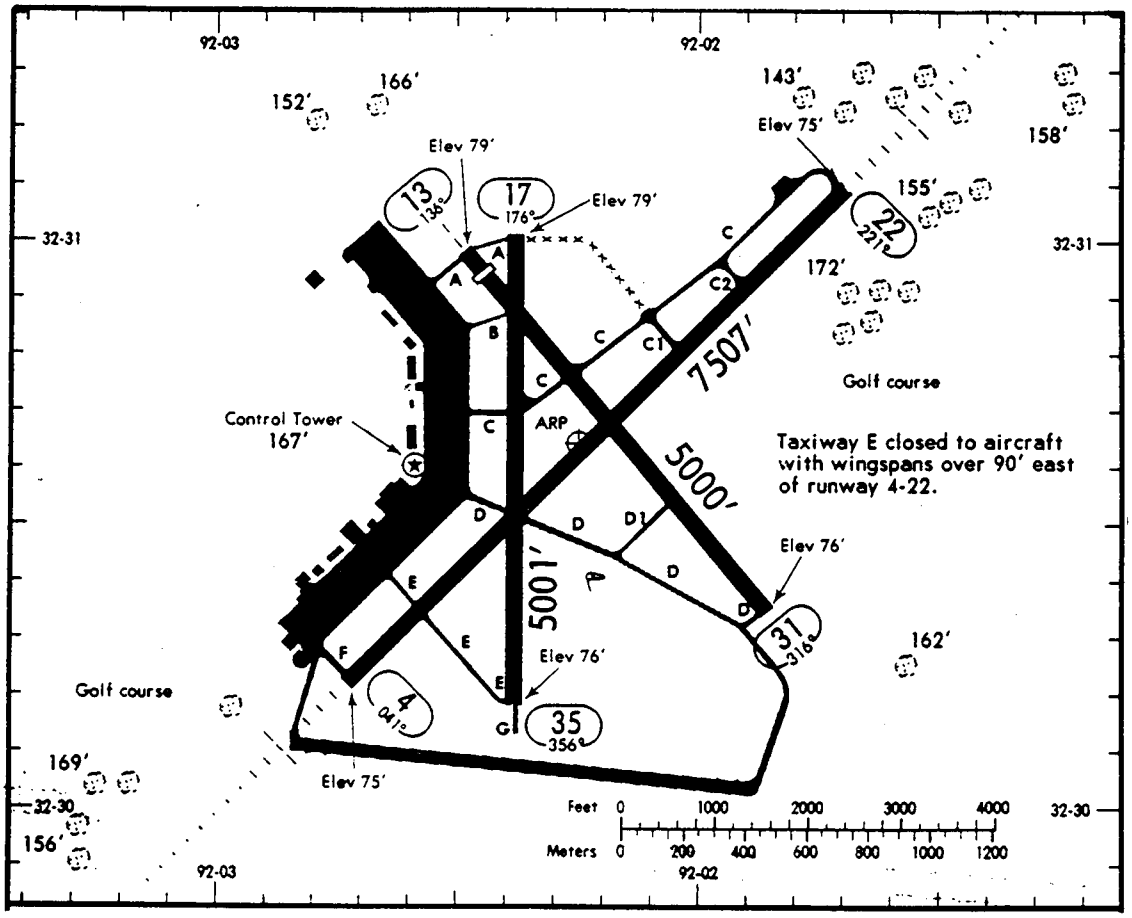
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	1	
Other	–	
Total Displays		3

FY 85	CONVERT RVV	R/W 21

MONROE LA (MLU)

ASW



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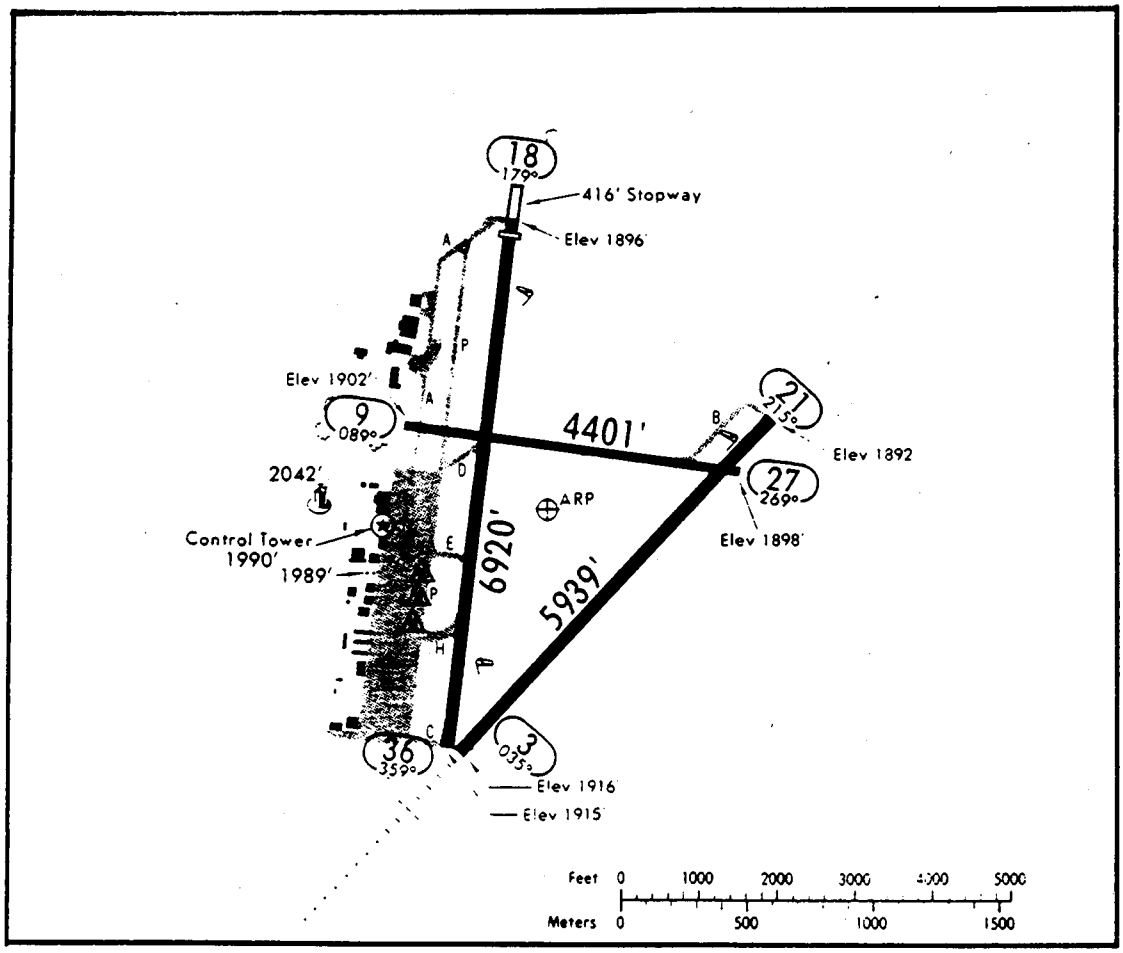
	EXISTING	NEW GENERATION
04	34711	
MLU	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	–	
NWS	1	
Other	–	
Total Displays		2

FY 85	CONVERT RVV	R/W 04

SAN ANGELO TX (SJT)

ASW



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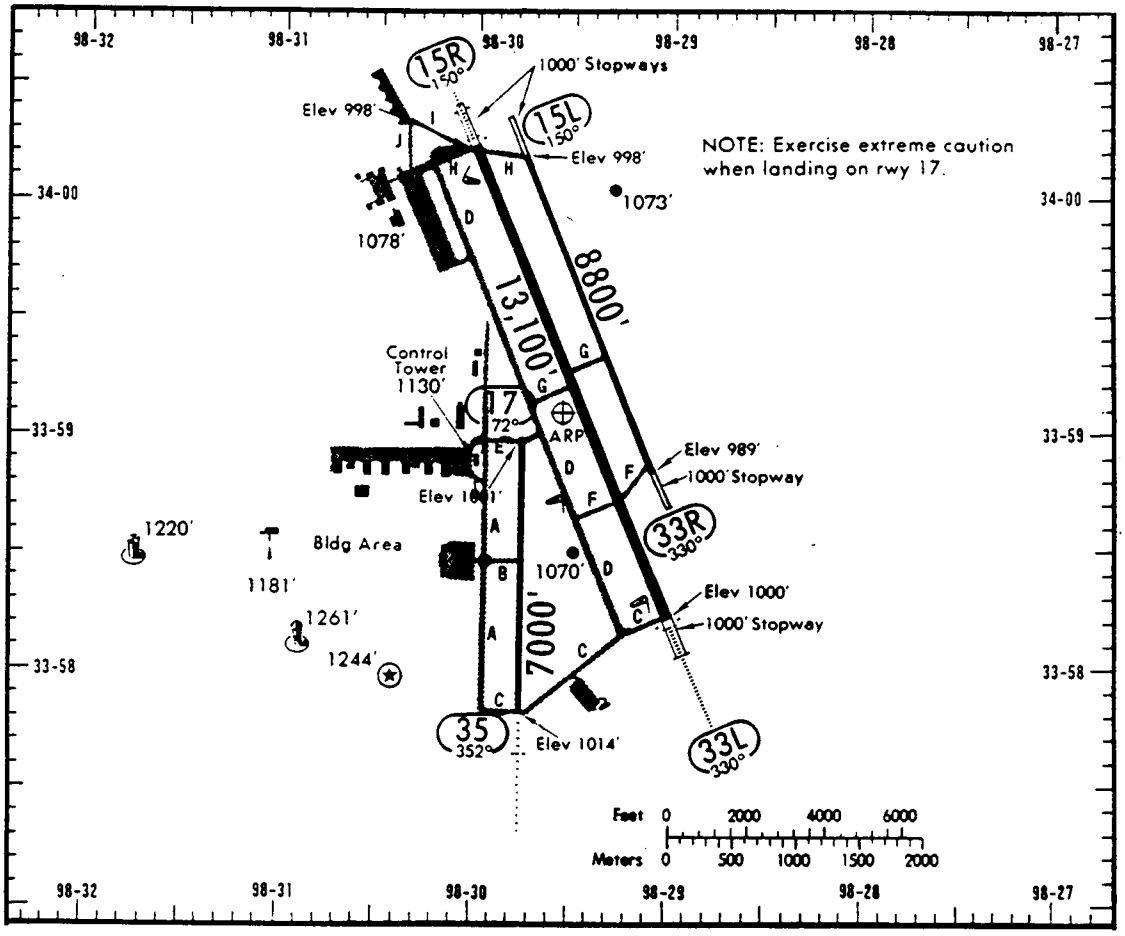
	EXISTING	NEW GENERATION		
03	347AG	System Elements		QTY REQ'D
SJT	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 85	CONVERT RVV	R/W 03

WICHITA FALLS TX (SPS)

ASW



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	EXISTING
15R	347AG
SPSA	TD
33L	347AE
SPS	TD

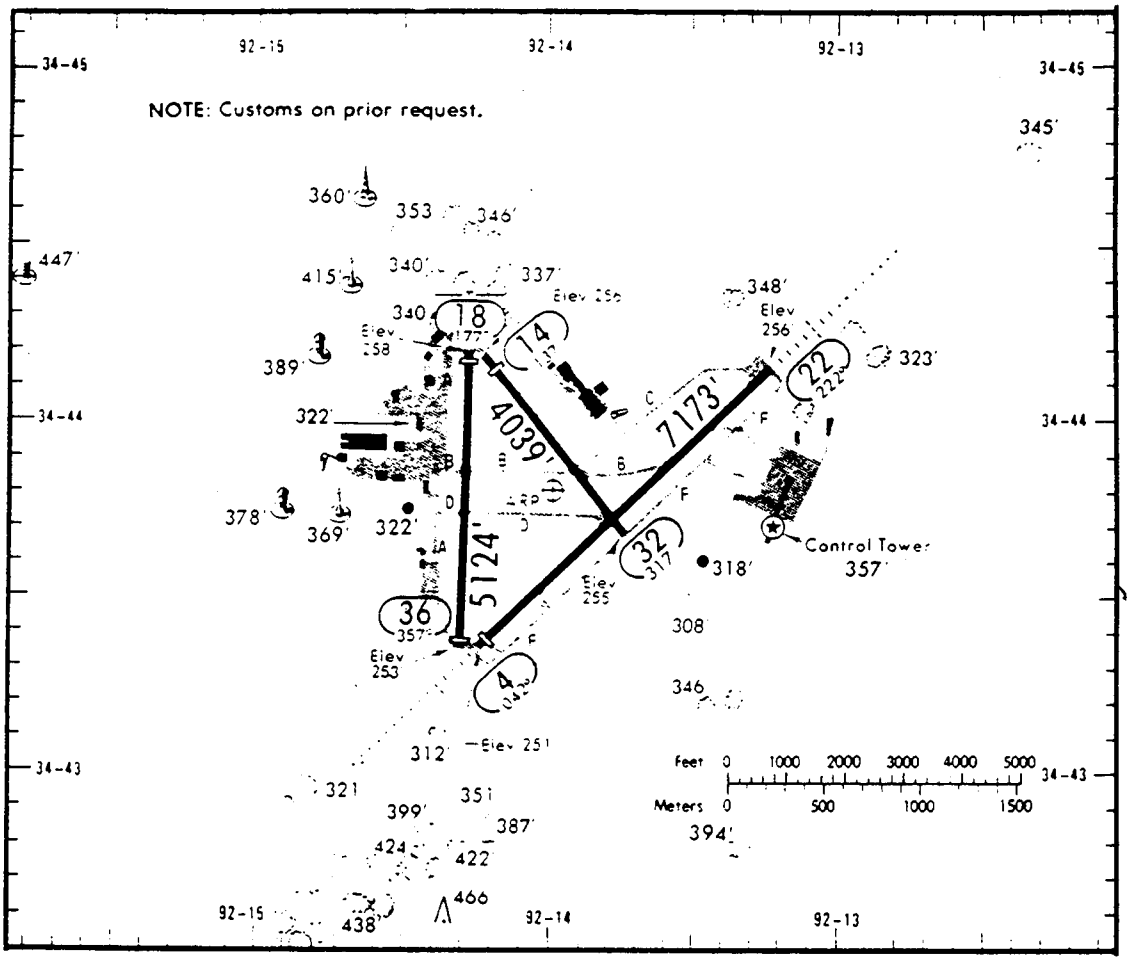
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	3	
NWS	2	
Other	–	
Total Displays		7

FY 85	CONVERT RVV	R/W 33L

LITTLE ROCK AR (LIT)

ASW



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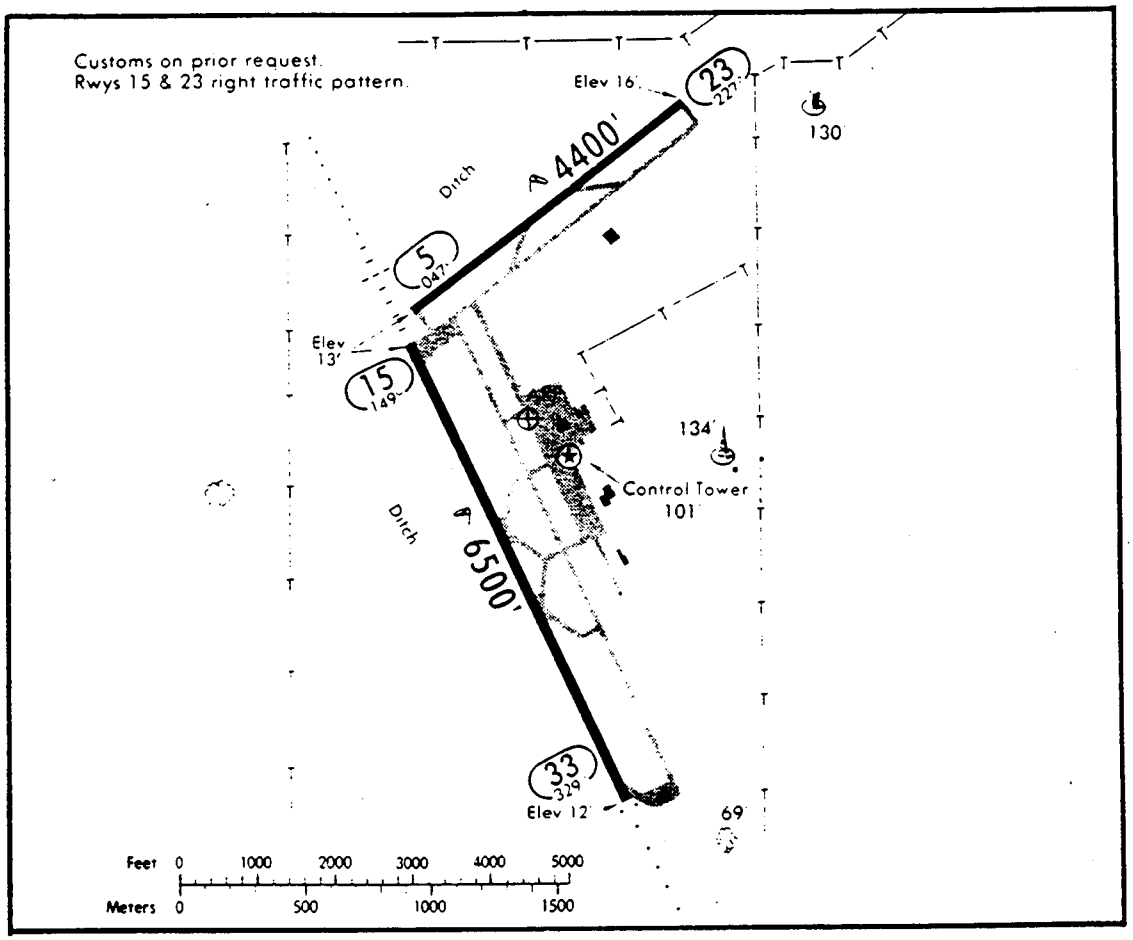
	EXISTING	NEW GENERATION
04	347AE	
LIT	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	–	
Total Displays		5

FY 86	ESTABLISH	R/W 22

LAKE CHARLES LA (LCH)

ASW



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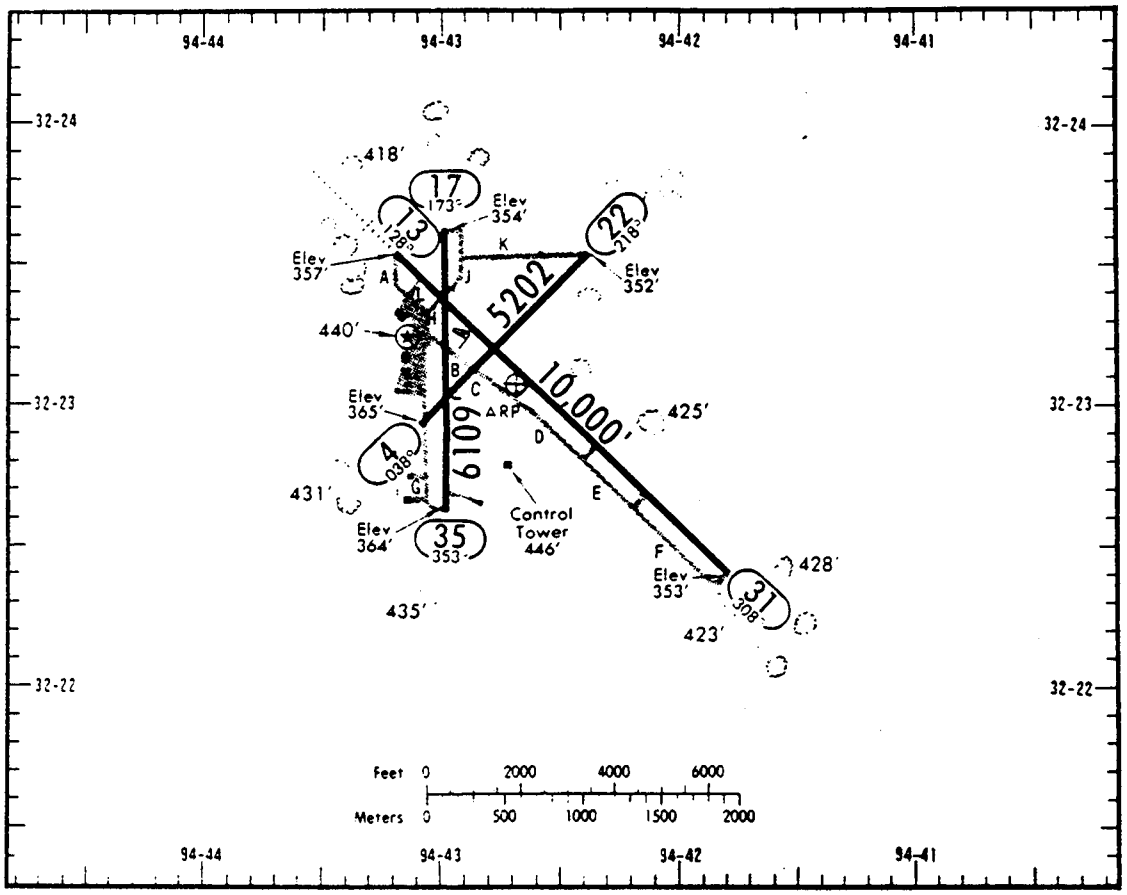
	EXISTING	NEW GENERATION		
15	347AD	System Elements		QTY REQ'D
LCH	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 85	CONVERT RVV	R/W 15
FY 86	REPLACE	R/W 15

LONGVIEW TX (GGG)

ASW



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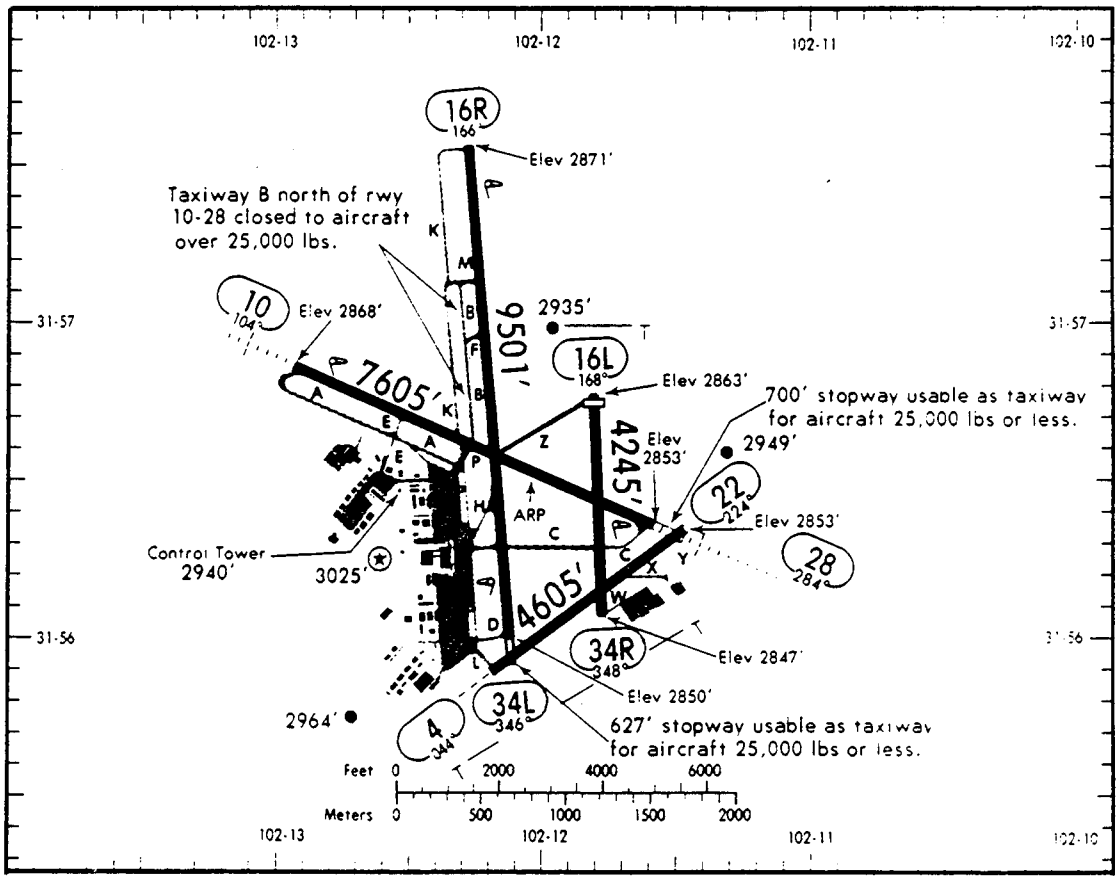
	EXISTING	NEW GENERATION		
13	347AC	System Elements		QTY REQ'D
GGG	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 86	REPLACE	R/W 13

MIDLAND TX (MAF) ASW



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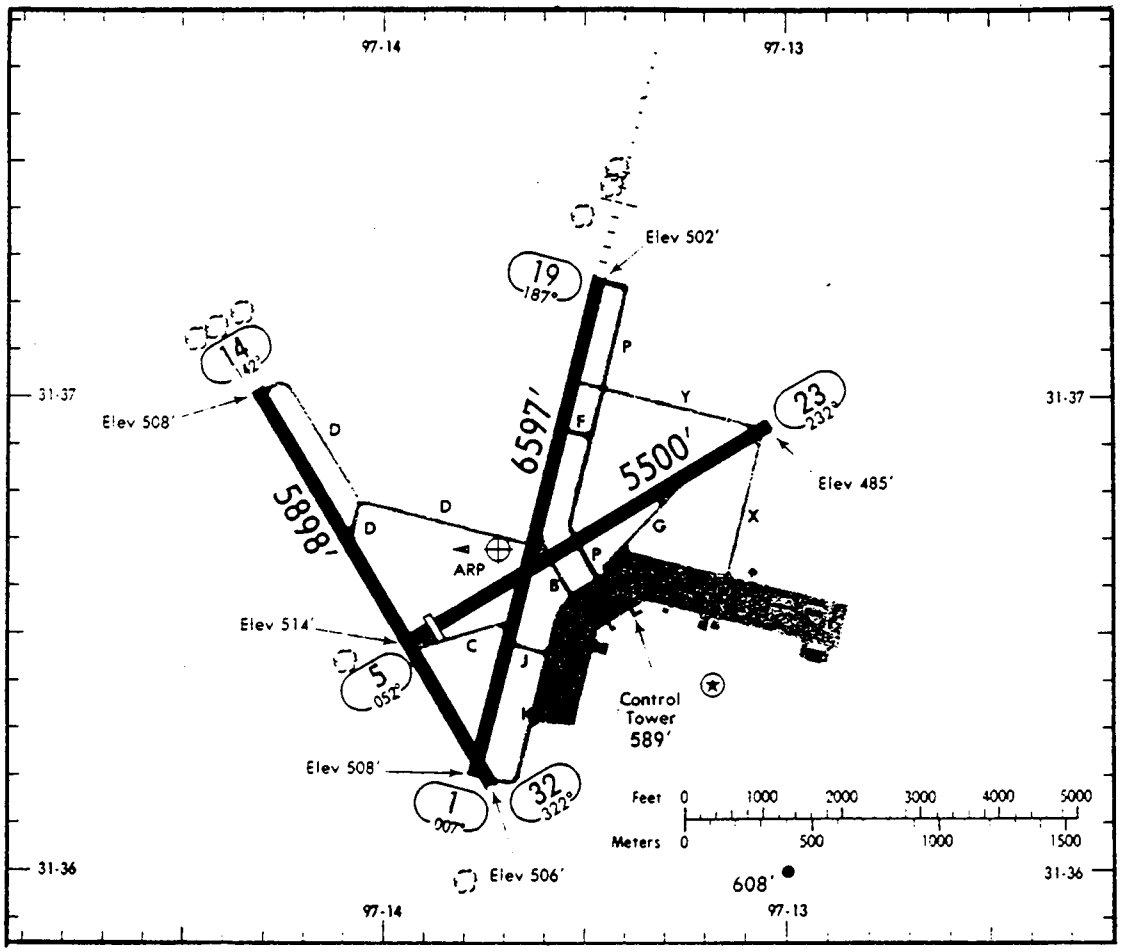
	EXISTING	NEW GENERATION		
10	347AC	System Elements		QTY REQ'D
MAF	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	3	
		NWS	–	
		Other	–	
		Total Displays		4

FY 86	REPLACE	R/W 10

WACO TX (ACT)

ASW



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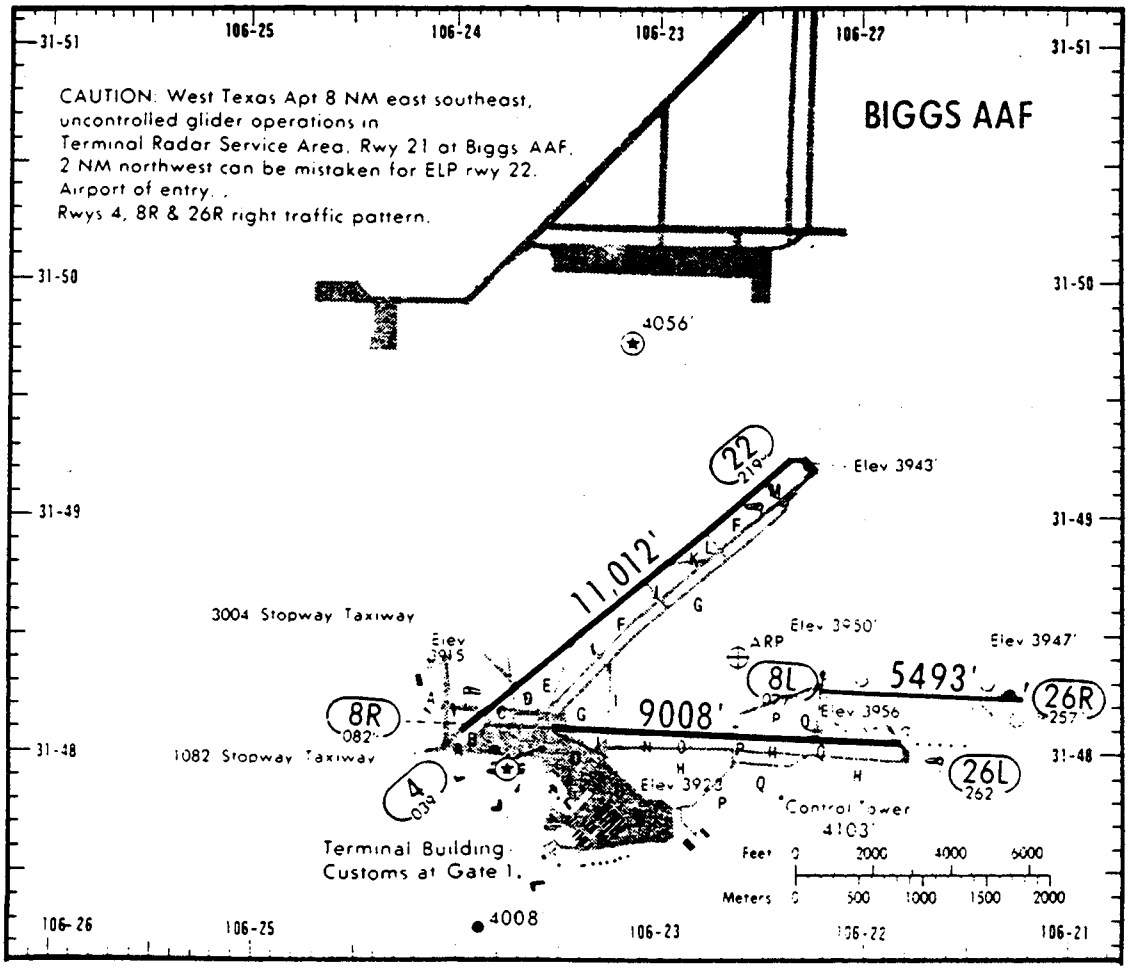
	EXISTING	NEW GENERATION		
19	347AC	System Elements		QTY REQ'D
ACT	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		4

FY 86	REPLACE	R/W 19

EL PASO TX (ELP)

ASW



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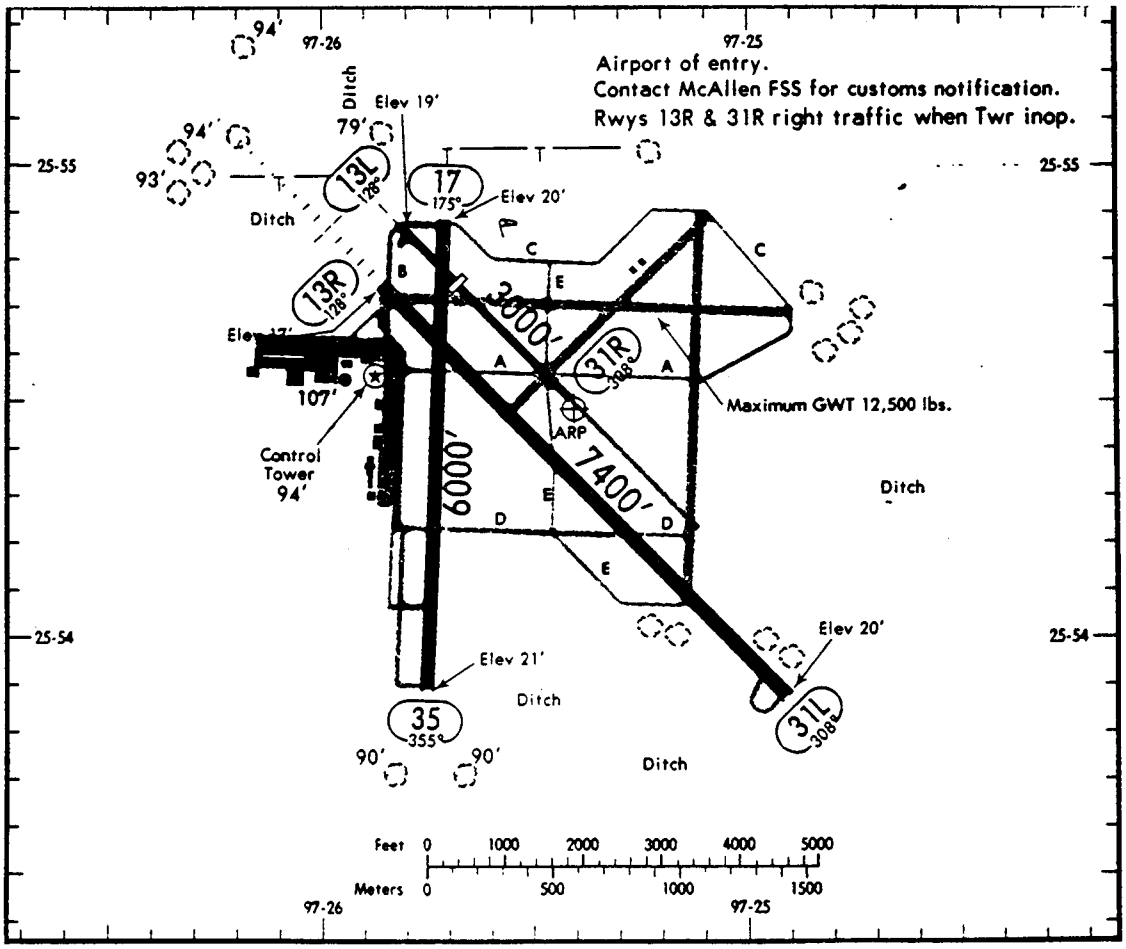
	EXISTING	NEW GENERATION
22	347AG	
ELP	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	1	
NWS	1	
Other	–	
Total Displays		4

FY 86	CONVERT RVV	R/W 22

BROWNSVILLE TX (BRO)

ASW



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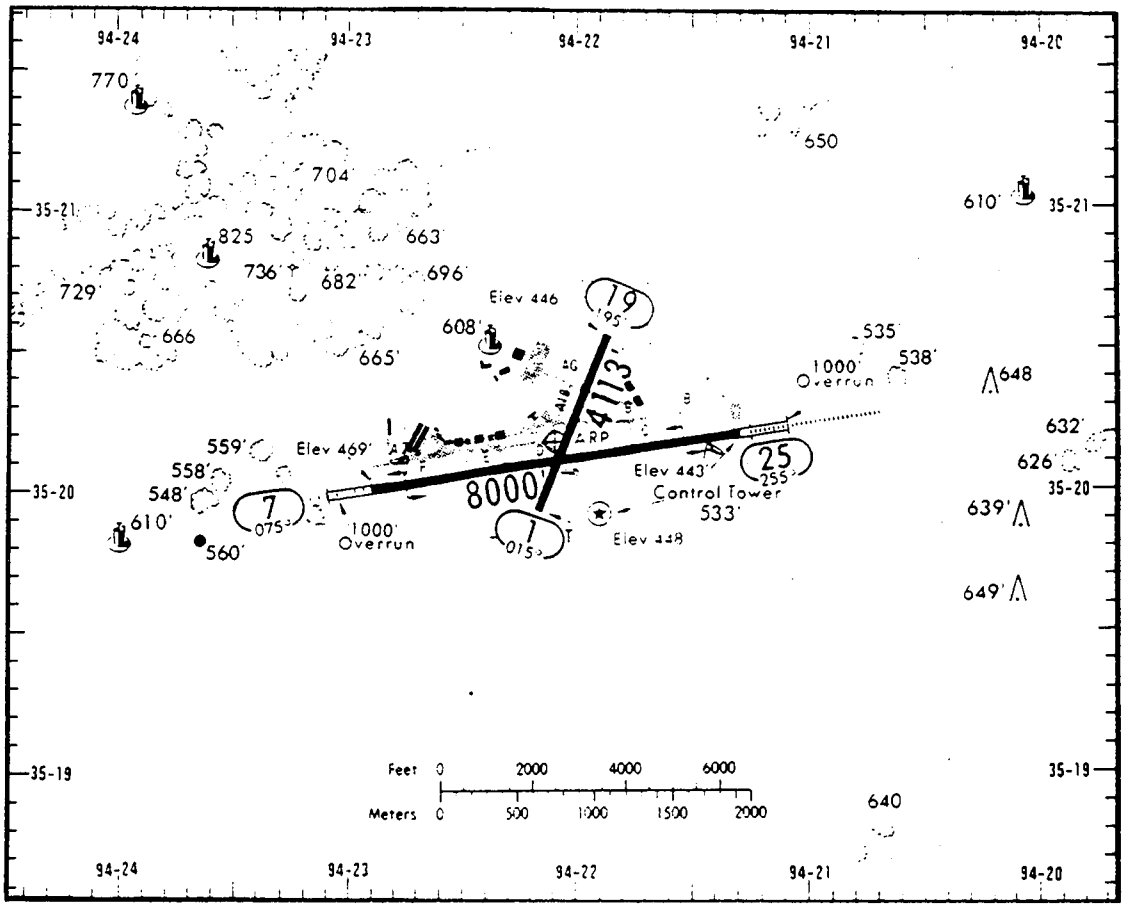
EXISTING	NEW GENERATION
NONE	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	3	
TRACON	–	
NWS	–	
Other	–	
Total Displays		3

FY 88	ESTABLISH	R/W 13R

FORT SMITH AR (FSM) ASW



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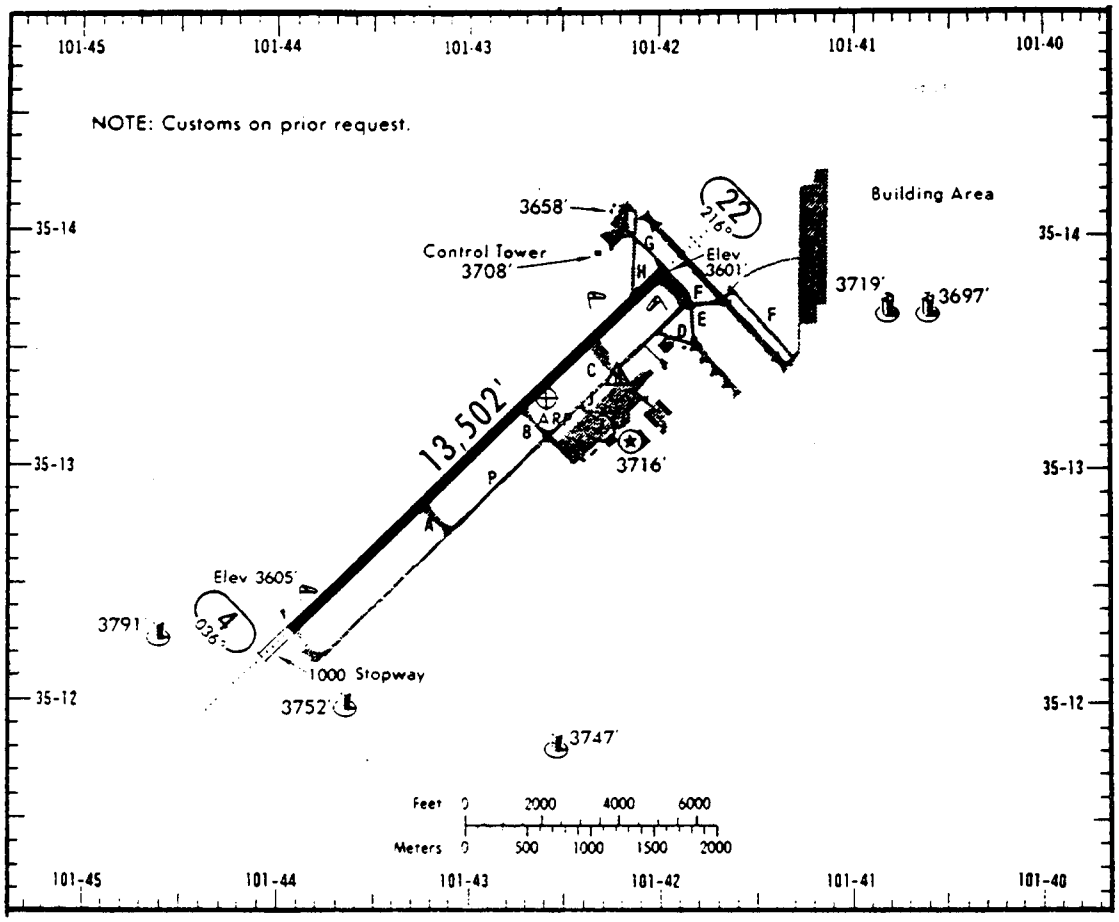
	EXISTING	NEW GENERATION		
25	34711	System Elements		QTY REQ'D
FSM	TD	Basic		2
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	5	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		6

FY 88	ESTABLISH (CONVERT R/W)	R/W 25

AMARILLO TX (AMA)

ASW



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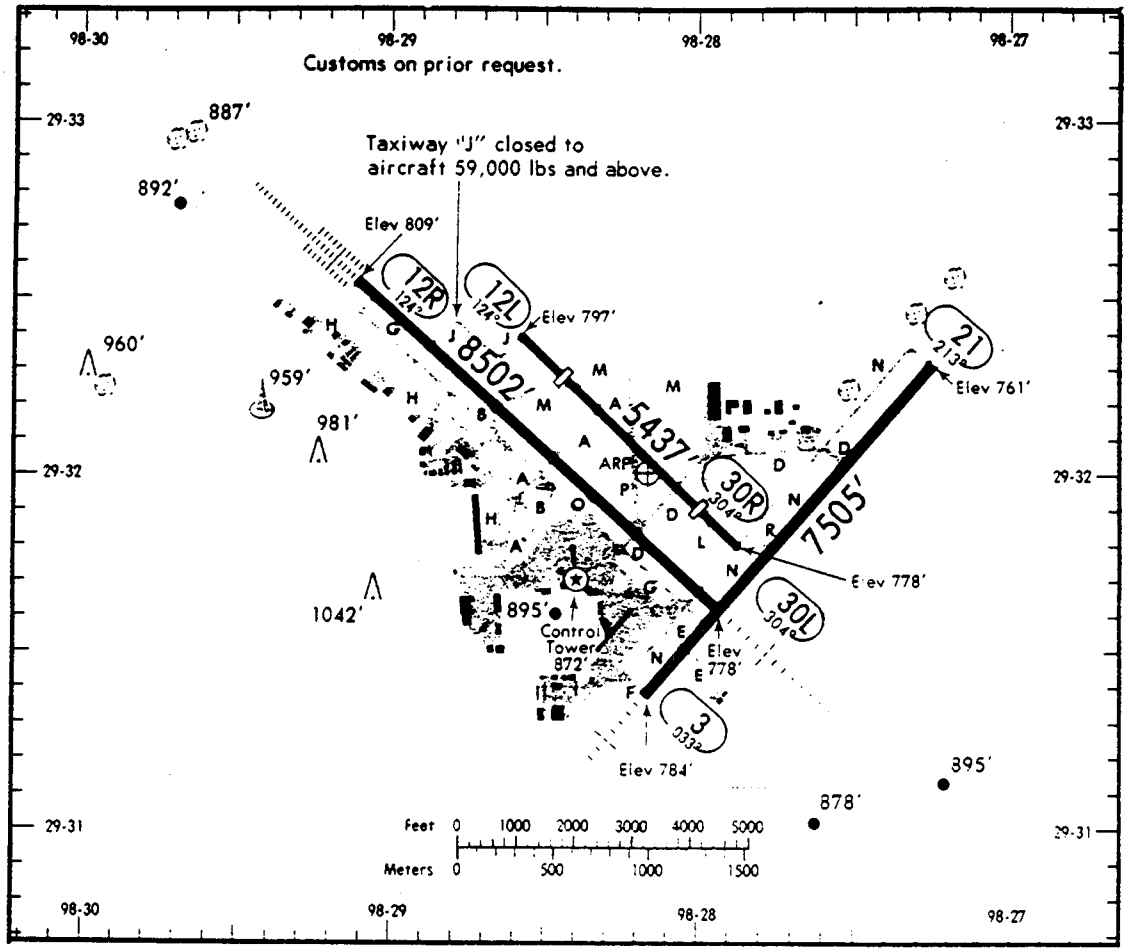
EXISTING		NEW GENERATION		
04	347AE	System Elements		QTY REQ'D
AMA	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 04

SAN ANTONIO TX (SAT)

ASW



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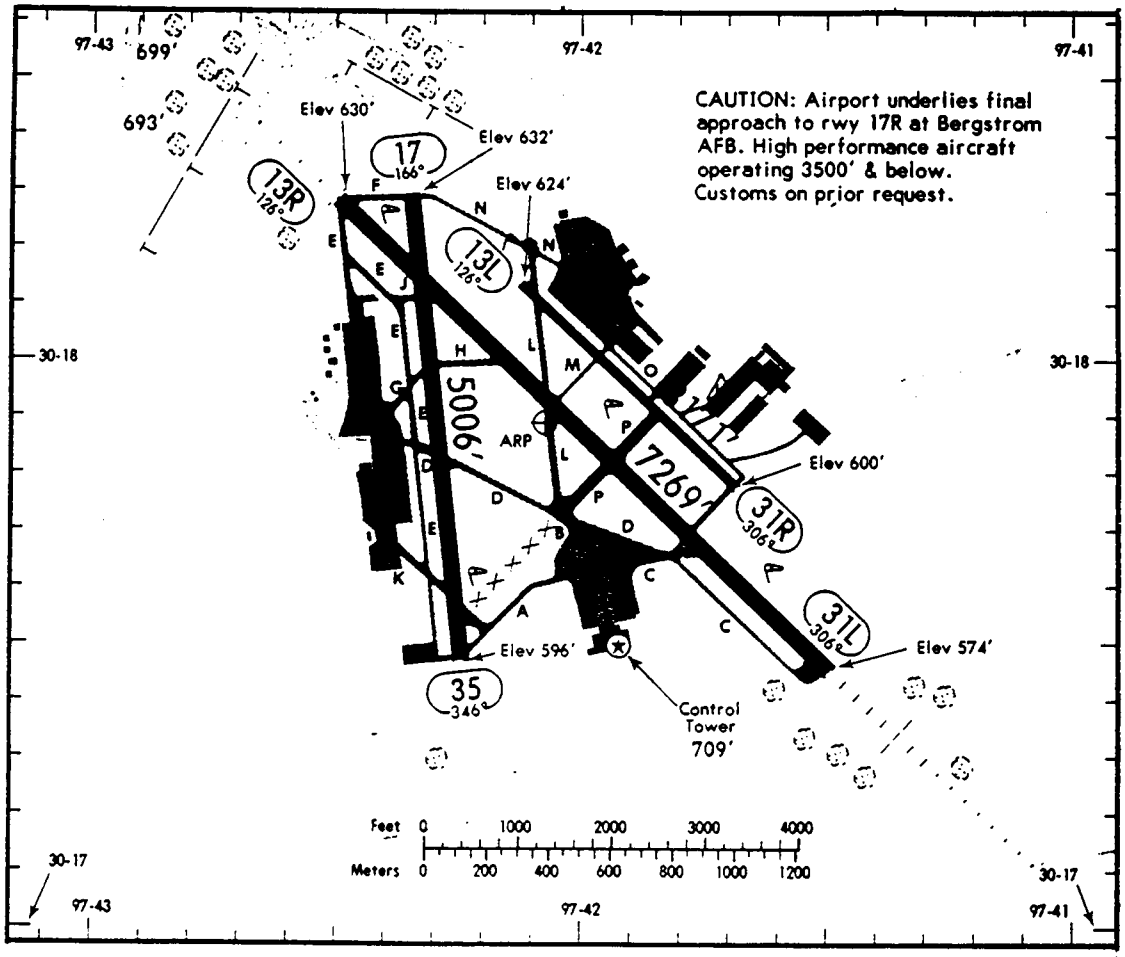
	EXISTING	NEW GENERATION		
12R	347AE	System Elements		QTY REQ'D
ANT	TD	Basic		1
ANTA	RO	Sensor Packages		2
ANTB	MP	RLIM		–
		Displays		
		ATCT	2	
		TRACON	3	
		NWS	2	
		Other	–	
		Total Displays		7

FY 93	REPLACE	R/W 12R

AUSTIN TX (AUS)

ASW



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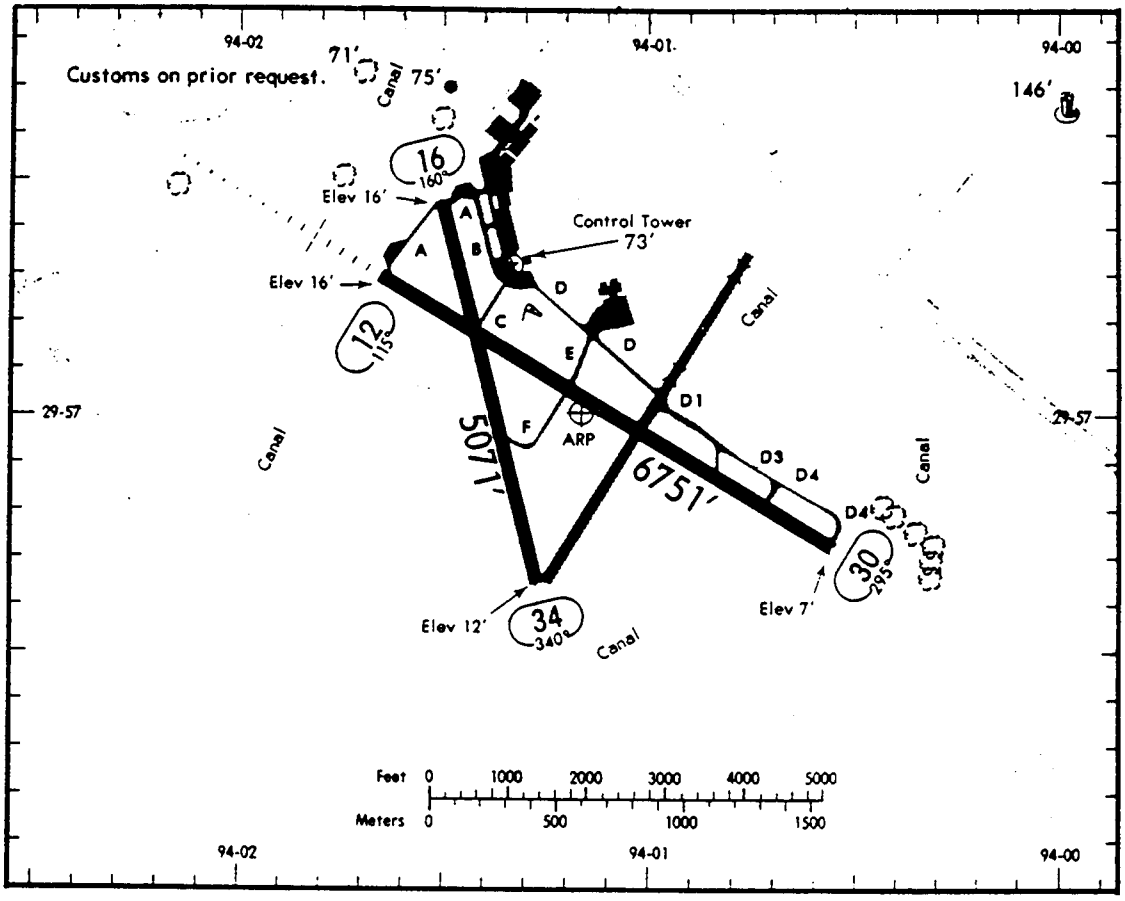
	EXISTING	NEW GENERATION		
31L	347AE	System Elements		QTY REQ'D
AUS	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 13R

BEAUMONT TX (BPT)

ASW



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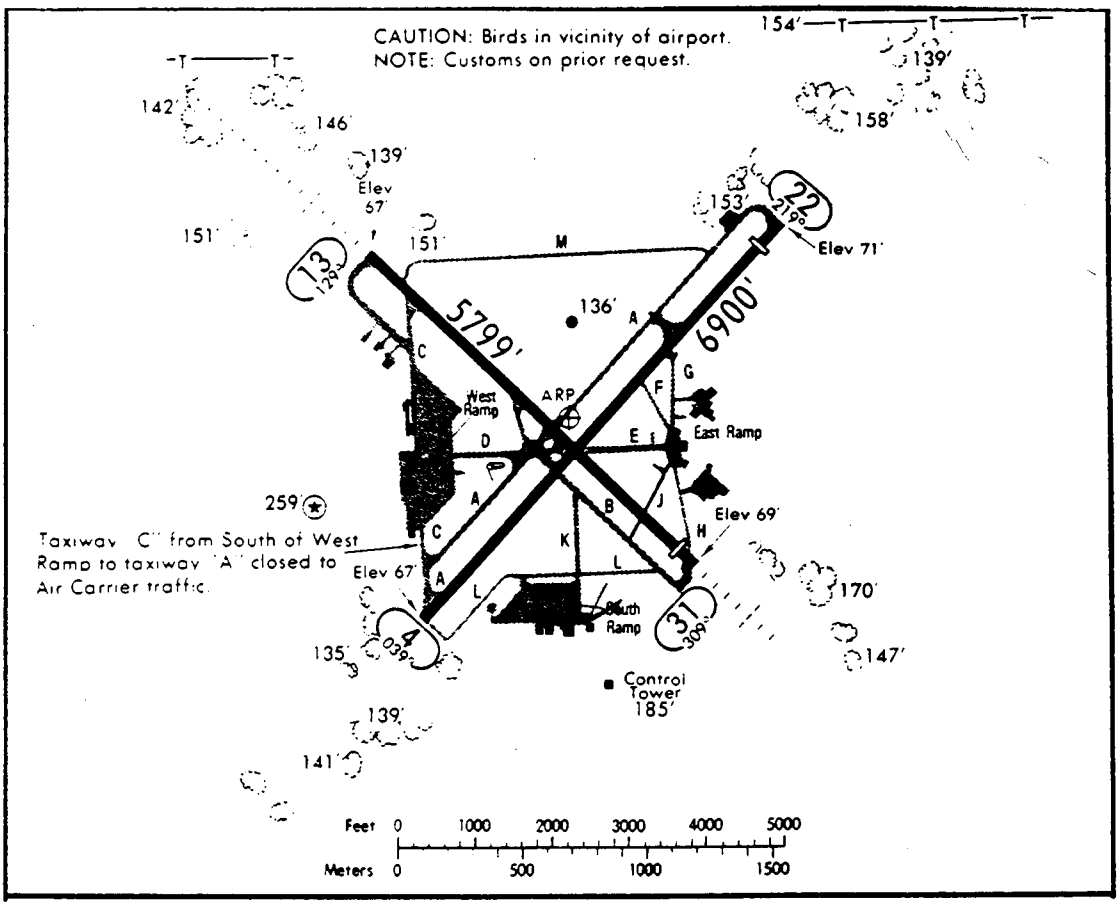
	EXISTING	NEW GENERATION
12	347AE	
BPT	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	1	
TRACON	1	
NWS	1	
Other	–	
Total Displays		3

FY 93	REPLACE	R/W 12

BATON ROUGE LA (BTR)

ASW



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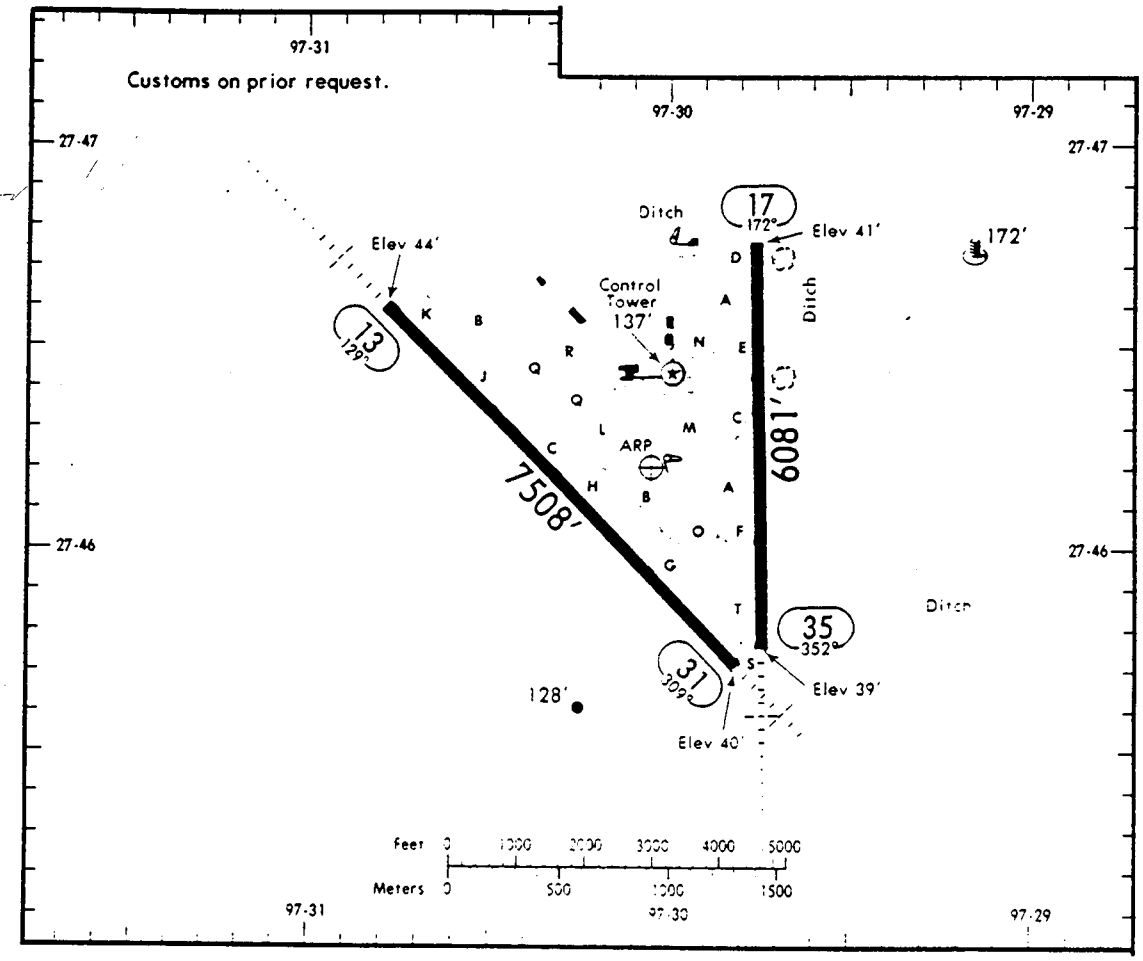
	EXISTING	NEW GENERATION		
13	347AE	System Elements		QTY REQ'D
BTR	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	2	
		NWS	1	
		Other	–	
		Total Displays		5

FY 93	REPLACE	R/W 13

CORPUS CHRISTI TX (CRP)

ASW



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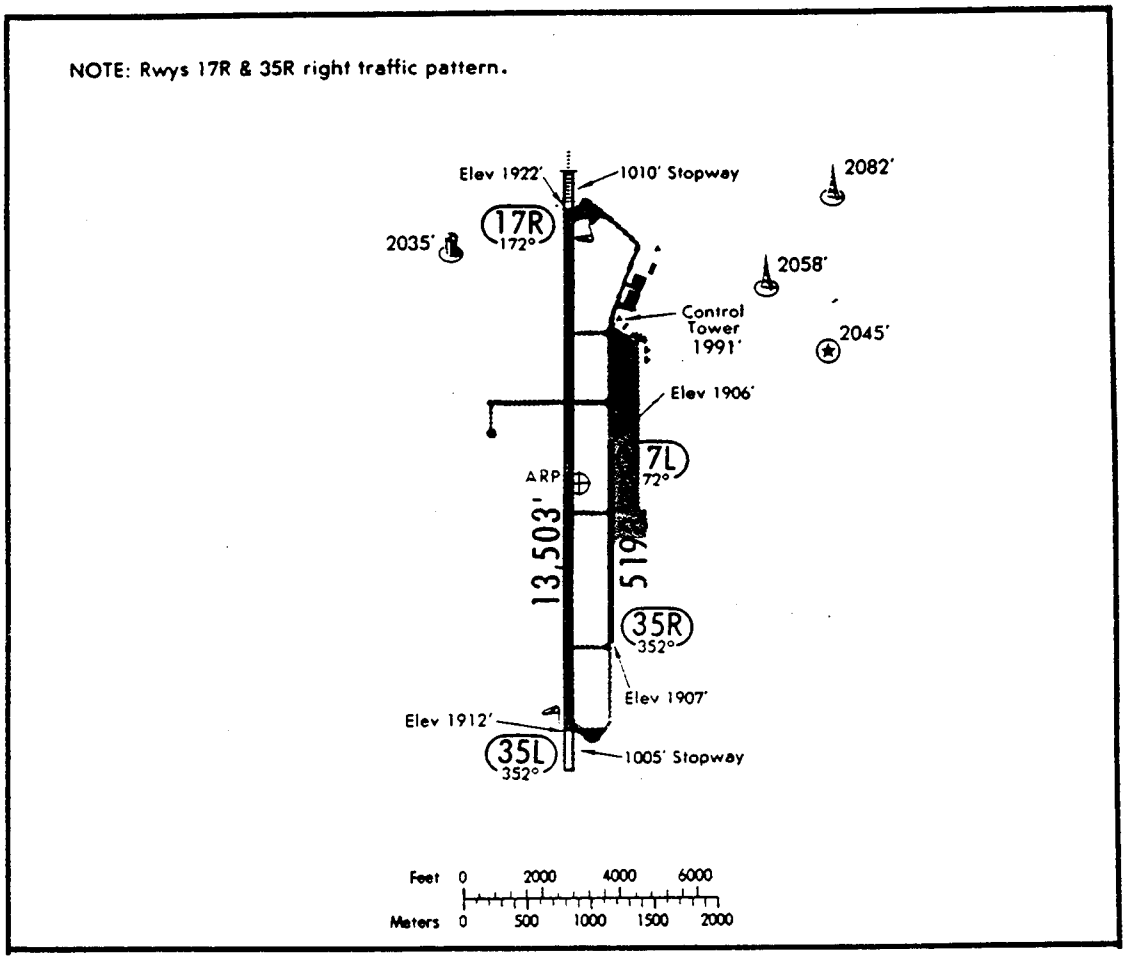
	EXISTING	NEW GENERATION
13	347AE	
CRP	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	2	
NWS	1	
Other	–	
Total Displays		5

FY 93	REPLACE	R/W 13

BURNS FLAT OK (CSM)

ASW



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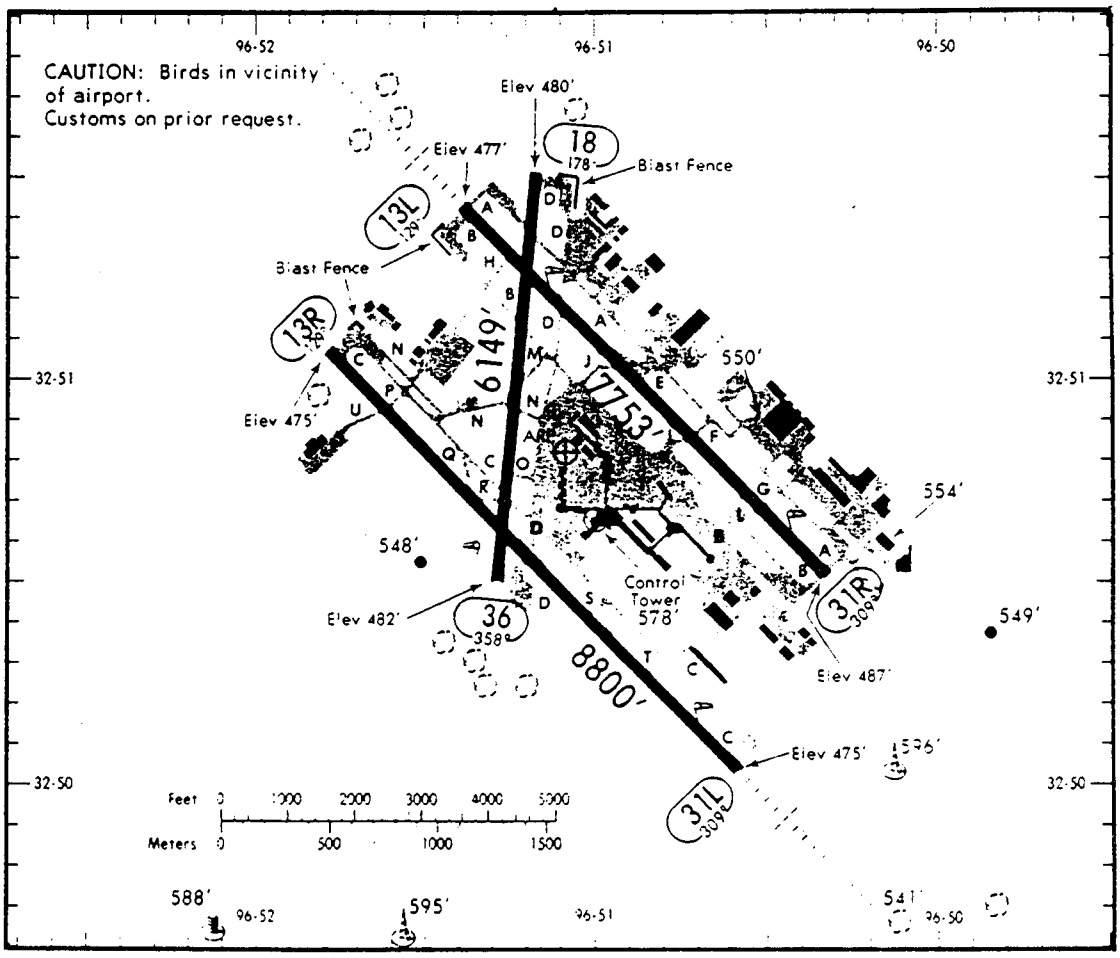
	EXISTING		NEW GENERATION		
35	347AG		System Elements		QTY REQ'D
CSM	TD		Basic		1
			Sensor Packages		–
			RLIM		–
			Displays		
			ATCT	1	
			TRACON	–	
			NWS	–	
			Other	–	
			Total Displays		1

FY 93	REPLACE	R/W 35

DALLAS (LOVE) TX (DAL)

ASW



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	EXISTING
13L	347AE
DAL	TD
31L	347AD
LVF	TD

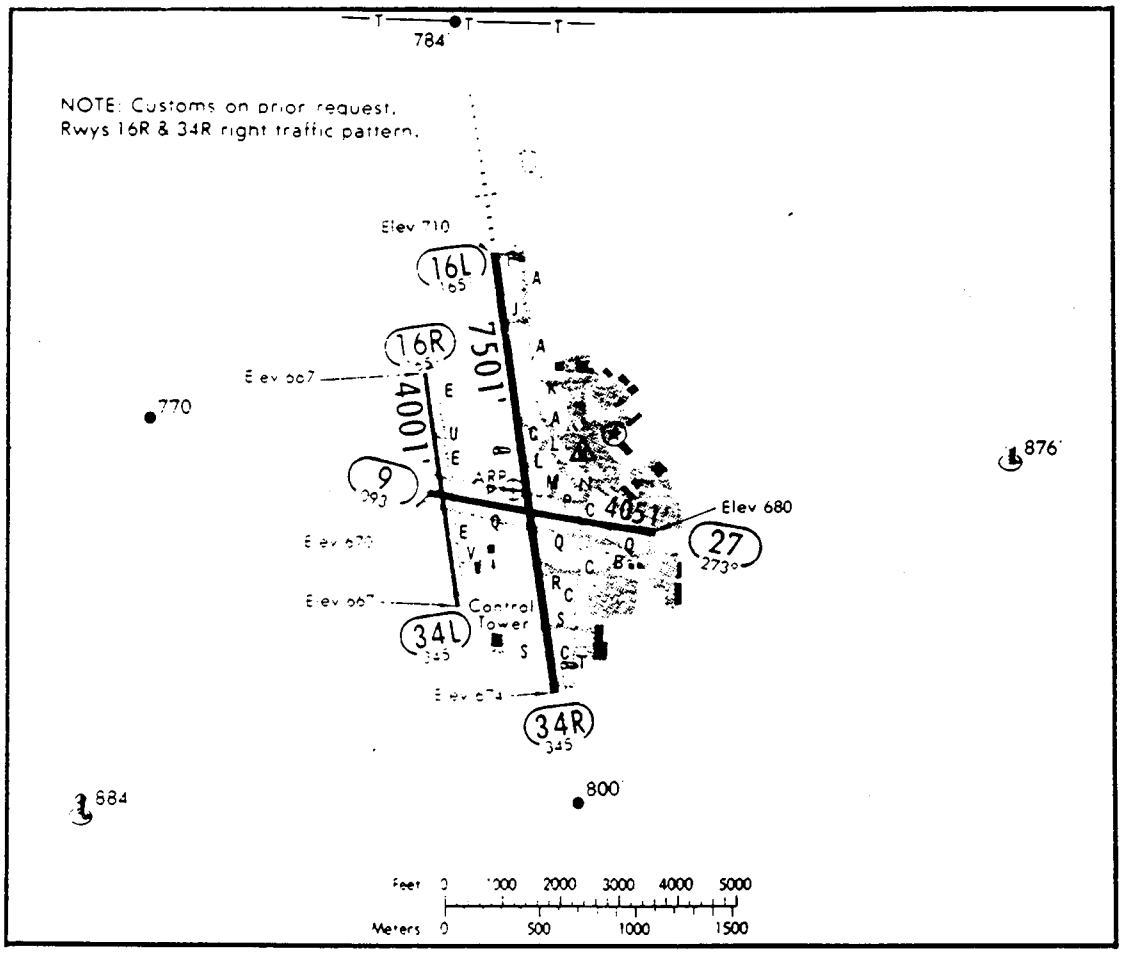
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		1
Displays		
ATCT	4	
TRACON	2	
NWS	–	
Other	–	
Total Displays		6

FY 93	REPLACE	R/W 13L, 31L

FORT WORTH TX (FTW)

ASW



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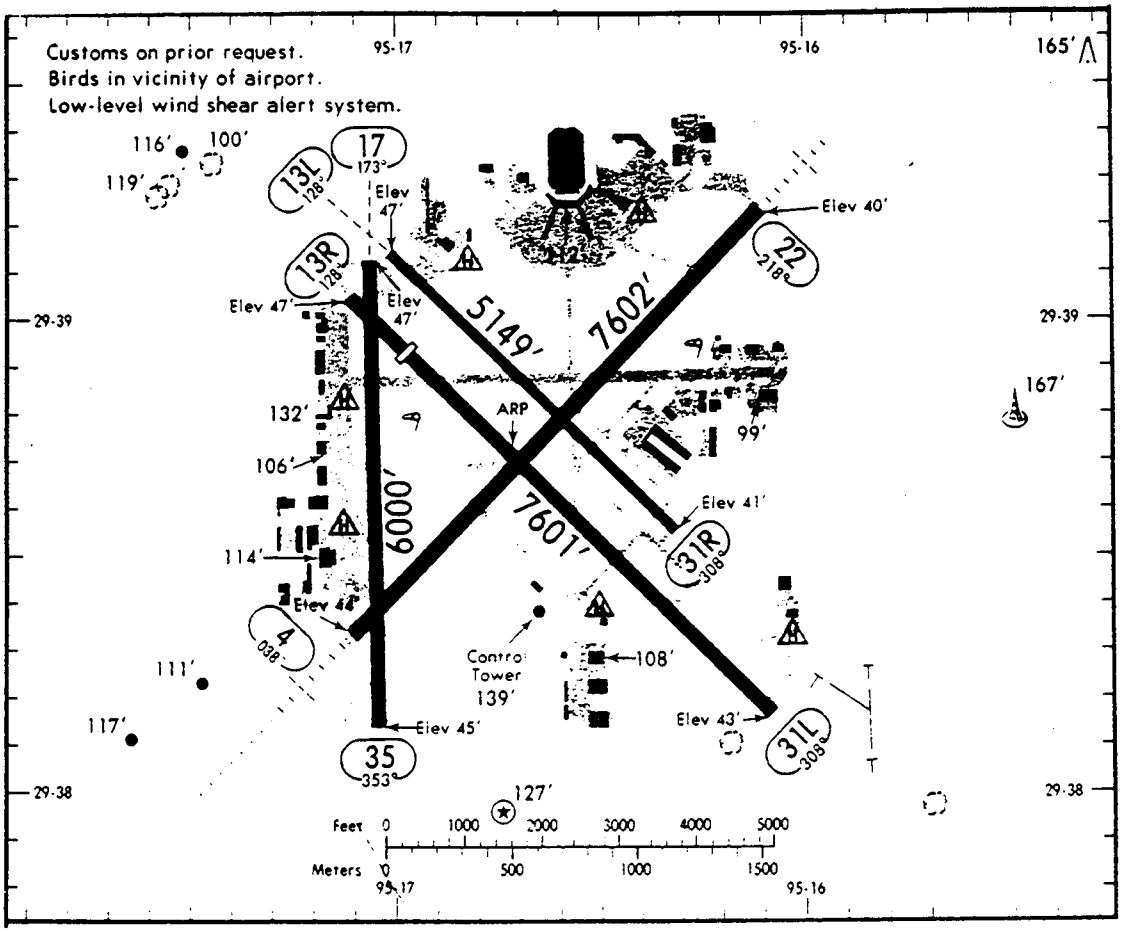
	EXISTING	NEW GENERATION		
16L	347AE	System Elements		QTY REQ'D
FTW	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	–	
		Other	3	
		Total Displays		6

FY 93	REPLACE	R/W 16L

HOUSTON (HOBBY) TX (HOU)

ASW



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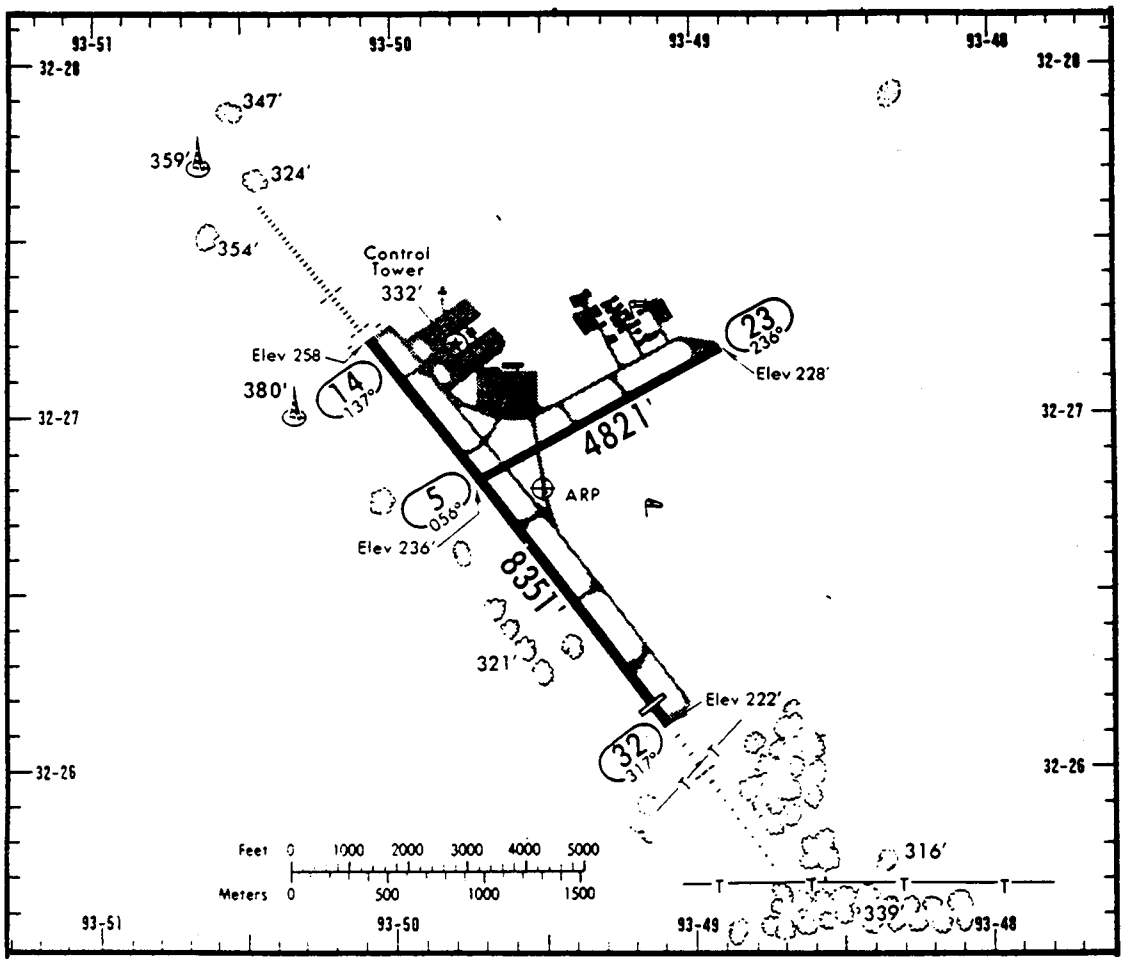
	EXISTING	NEW GENERATION		
04	347AE	System Elements		QTY REQ'D
HUB	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 04

SHREVEPORT LA (SHV)

ASW



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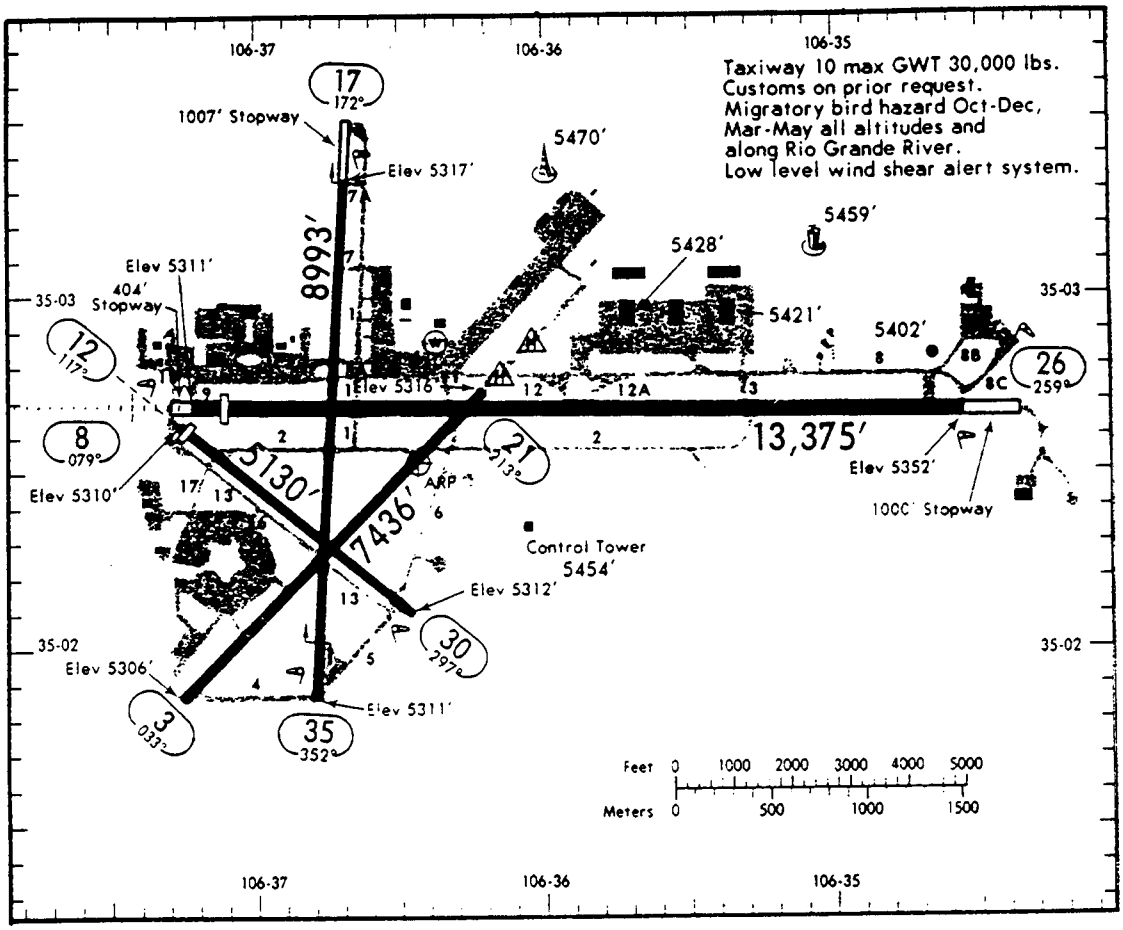
EXISTING		NEW GENERATION		
14	347AE	System Elements		QTY REQ'D
SHV	TD	Basic		1
SHVA	RO	Sensor Packages		2
SHVB	MP	RLIM		–
		Displays		
		ATCT	7	
		TRACON	–	
		NWS	2	
		Other	6	
		Total Displays		15

FY 93	REPLACE	R/W 14

ALBUQUERQUE NM (ABQ)

ASW



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	EXISTING	NEW GENERATION
08	347AE	
SPT	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	5	
NWS	1	
Other	–	
Total Displays		8

FY 93	REPLACE	R/W 08

APPENDIX 9. AWP SITE LOCATIONS

REGION

AIRPORT LOCATION (LOCATION IDENTIFIER)

RESERVED FOR JEPPESEN
AIRPORT LAYOUT

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EXISTING

Runway - RVR Model No.

RVR Location IDENT. TD, MP, RO (AS APPLICABLE)

OTHER RVRs
(AS APPLICABLE)

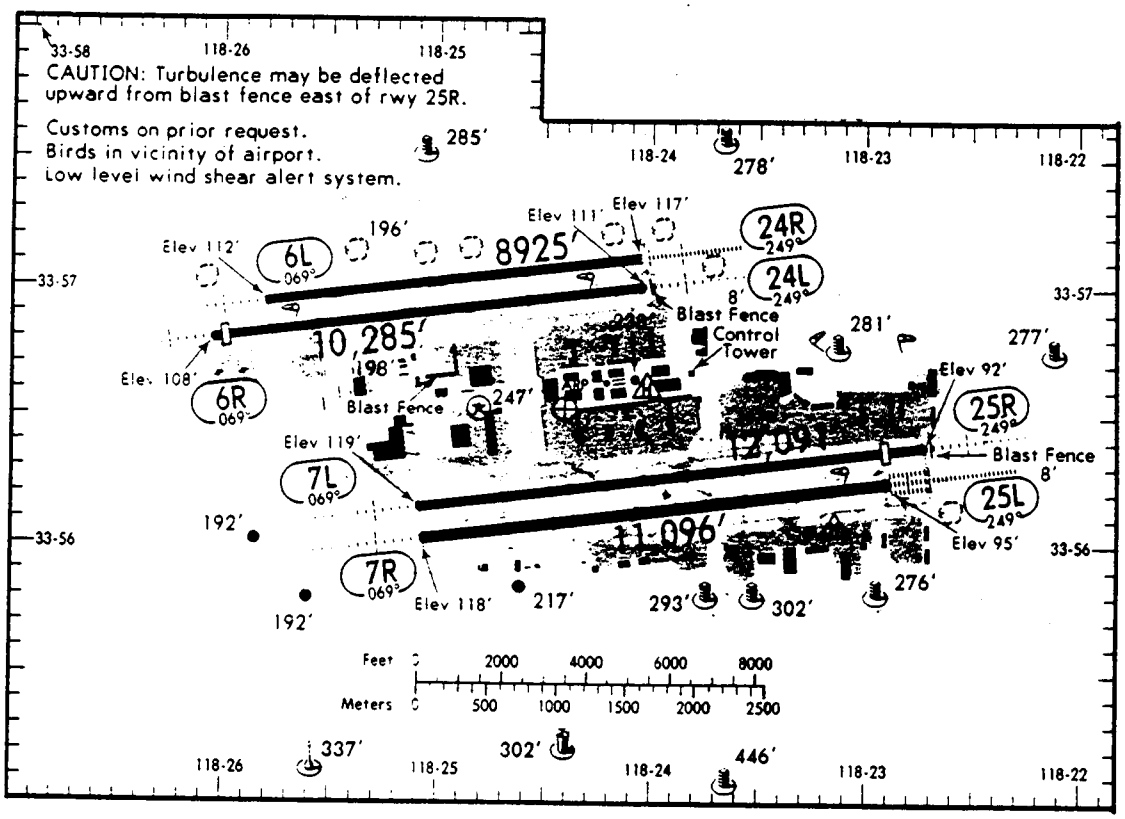
NEW GENERATION

Runway Visibility System (1)		1
Sensor Package (2)		5
RLIM		1
Displays		
ATCT	(a)	
TRACON	(b)	
NWS (3)	(c)	
Other	(d)	
Total Displays	(a + b + c + d)	

(1) Basic RVR System, Only One per Airport Location
(2) Number of Existing RVR Sensors (minus 1)
(3) Graphic Recorder Quantities

LOS ANGELES CA (LAX)

AWP



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EXISTING

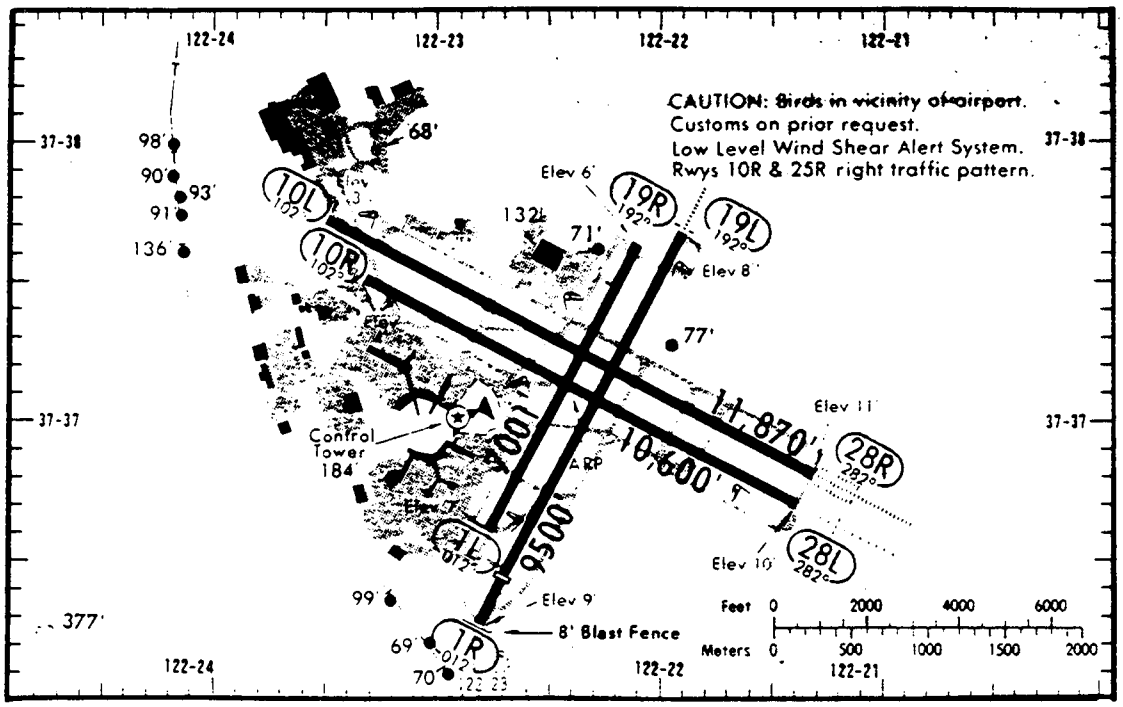
07L	347AD	24R	347AD
IAS	TD	OSS	TD
25R	347AD	OSSA	MP
LAXA	MP	25L	347AD
06R	347AD	LAX	TD
GPE	TD		

NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		5
RLIM		3
Displays		
ATCT	5	
TRACON	9	
NWS	1	
Other	–	
Total Displays		15

FY 84	CAT IIIb	R/W 24R
FY 84	ESTABLISH	R/W 25L
FY 86	REPLACE	R/W 25L

SAN FRANCISCO CA (SFO) AWP



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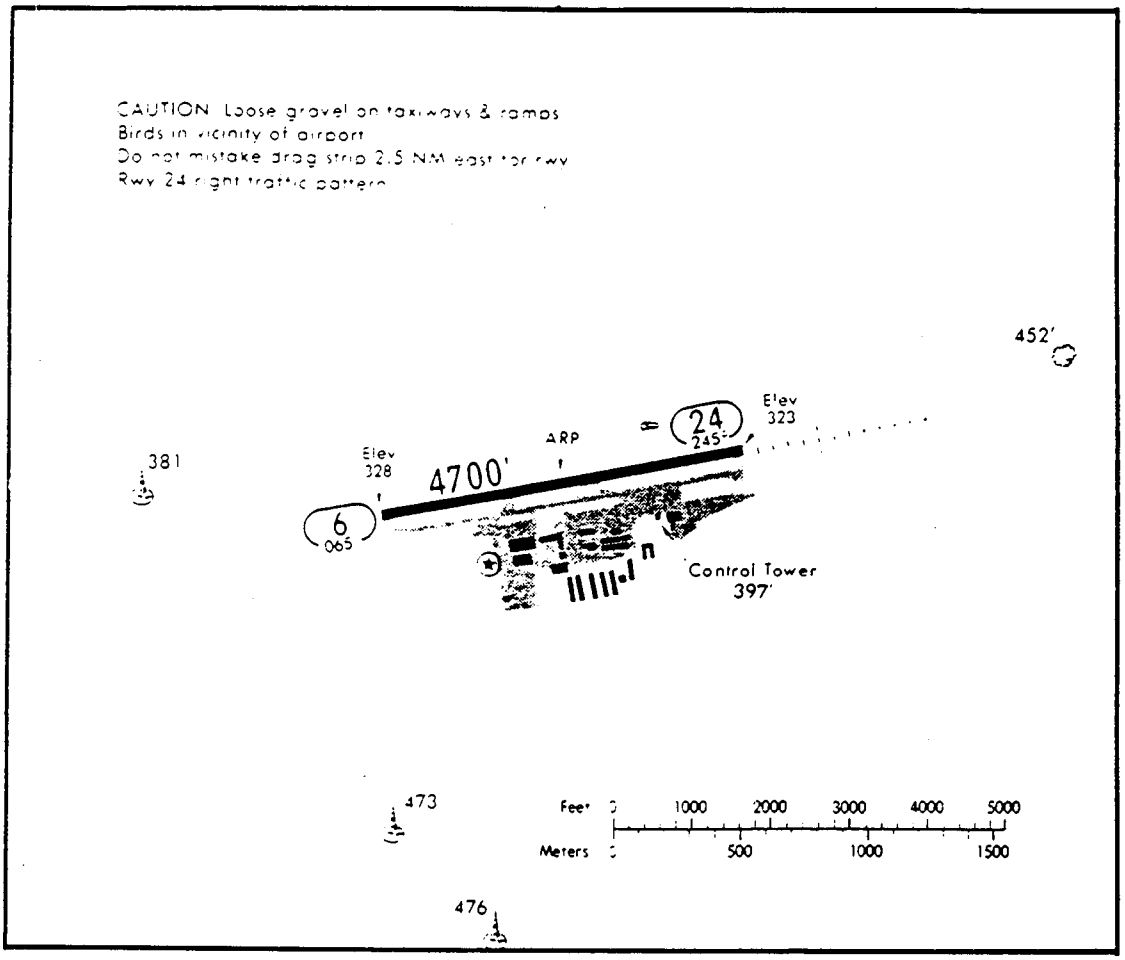
	EXISTING	NEW GENERATION		
28R	347AE	System Elements		QTY REQ'D
GWQ	TD	Basic		1
GWQA	RO	Sensor Packages		4
GWQB	MP	RLIM		1
		Displays		
19L	347AD	ATCT	7	
		TRACON	–	
SIA	TD	NWS	–	
SIAA	RO	Other	–	
		Total Displays		7

FY 84	CAT IIIb	R/W 28R
FY 86	REPLACE	R/W 19L

CARLSBAD CA (CRQ)

AWP



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EXISTING

NONE

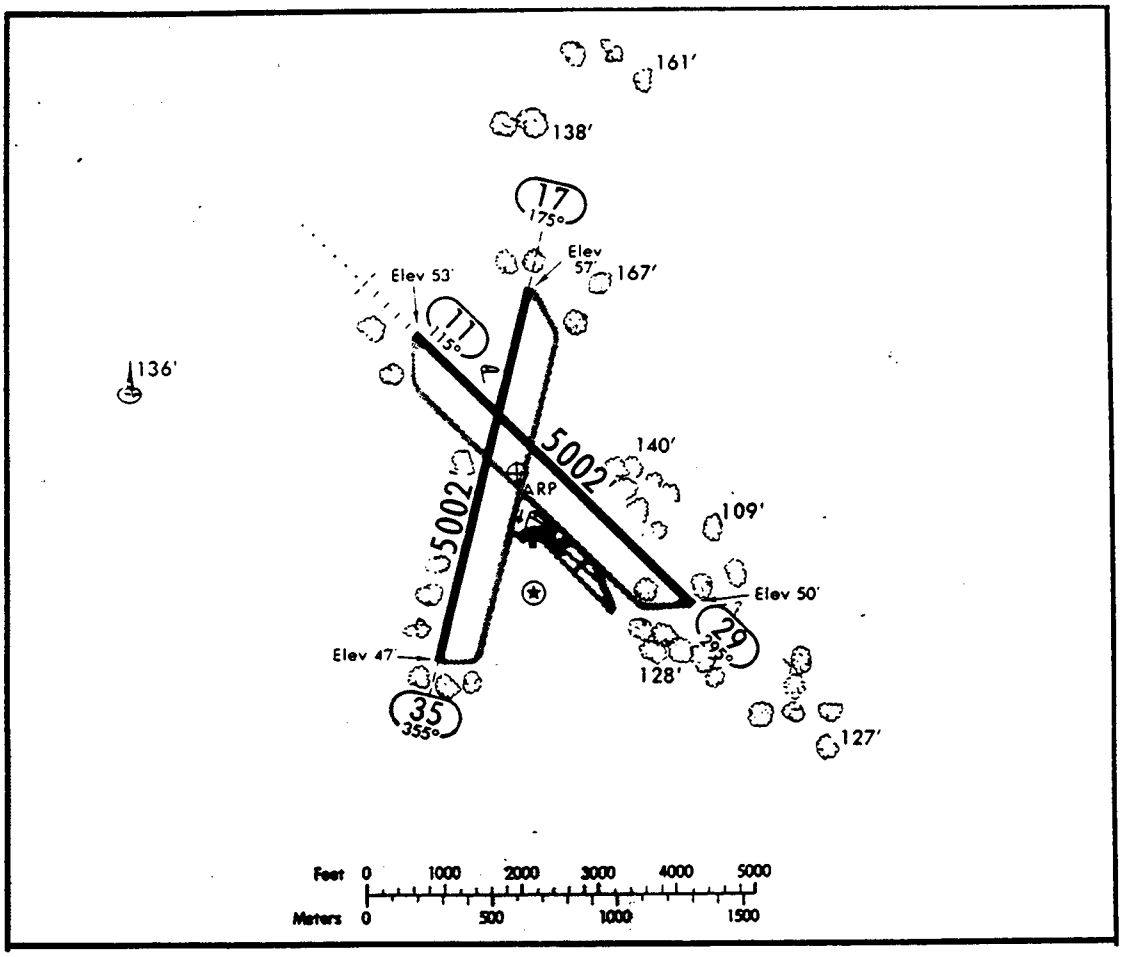
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 24

CRESCENT CITY CA (CEC)

AWP



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EXISTING

NONE

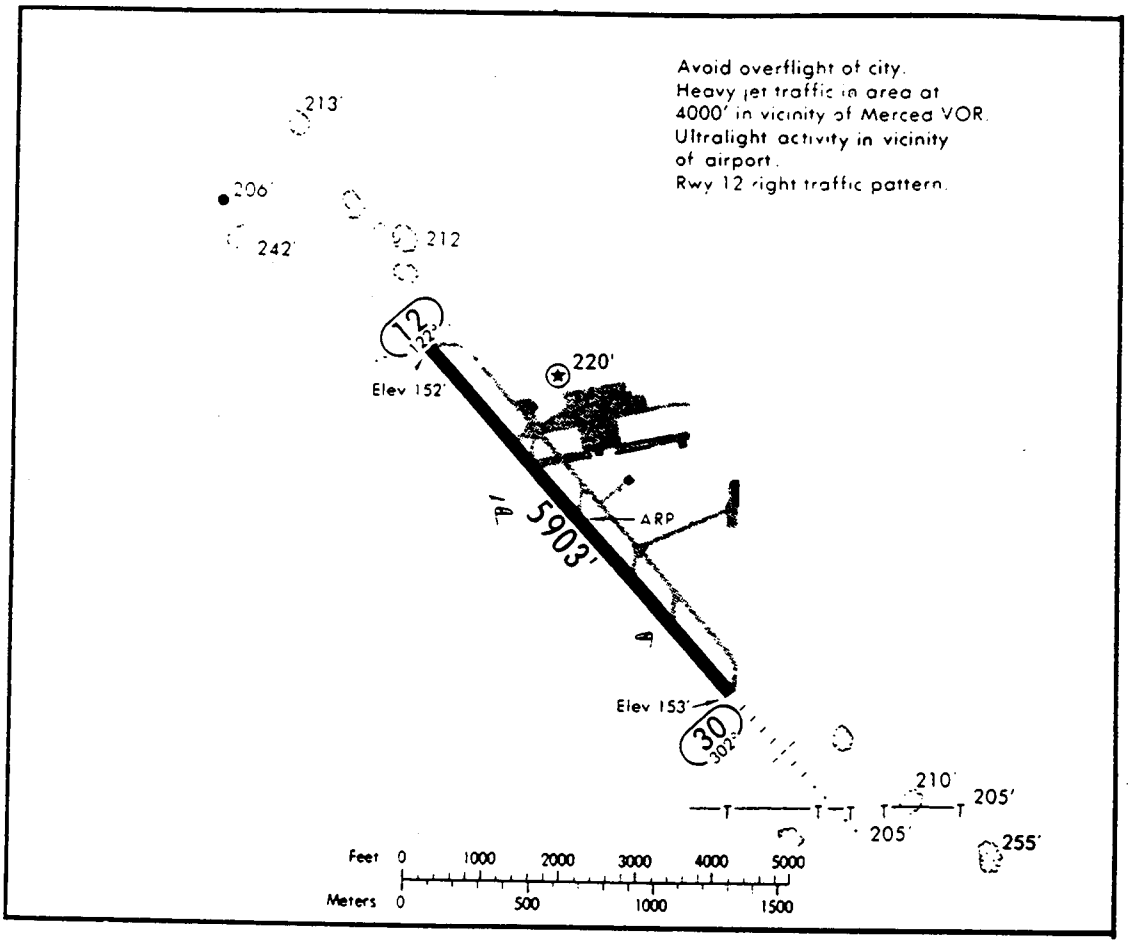
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	3	
TRACON	–	
NWS	–	
Other	–	
Total Displays		3

FY 84	ESTABLISH	R/W 11

MERCED CA (MCE)

AWP



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EXISTING

NONE

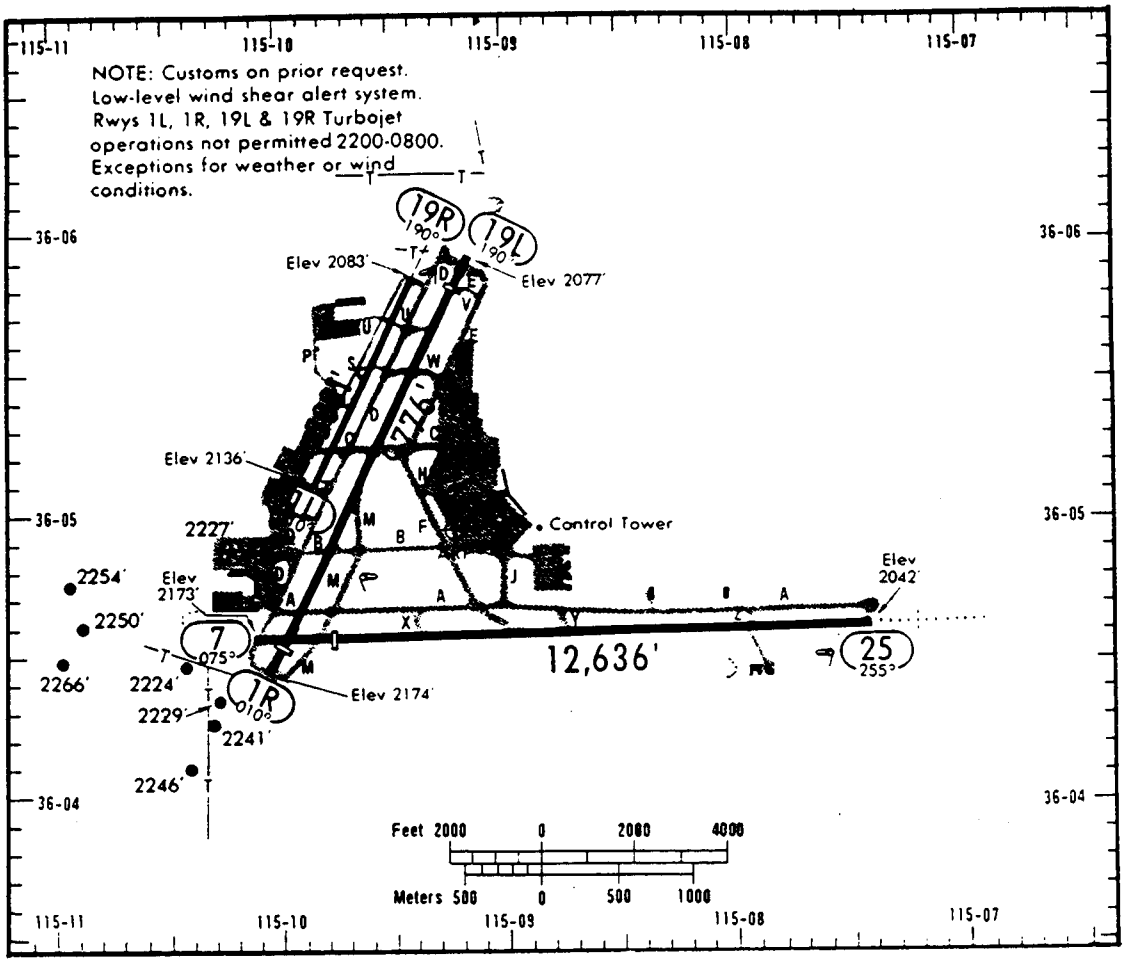
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 84	ESTABLISH	R/W 30

LAS VEGAS NV (LAS)

AWP



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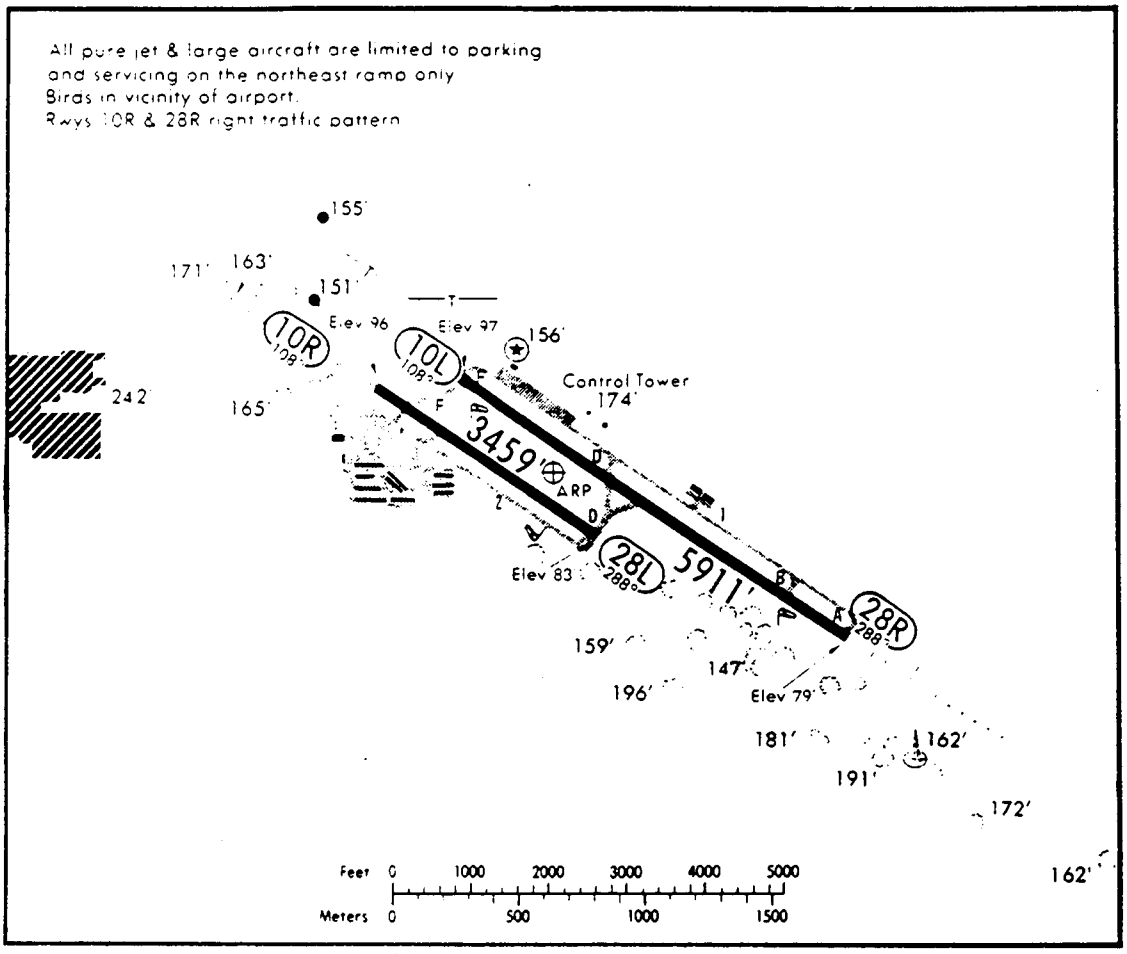
EXISTING	NEW GENERATION
NONE	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 25

MODESTO CA (MOD)

AWP



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EXISTING

NONE

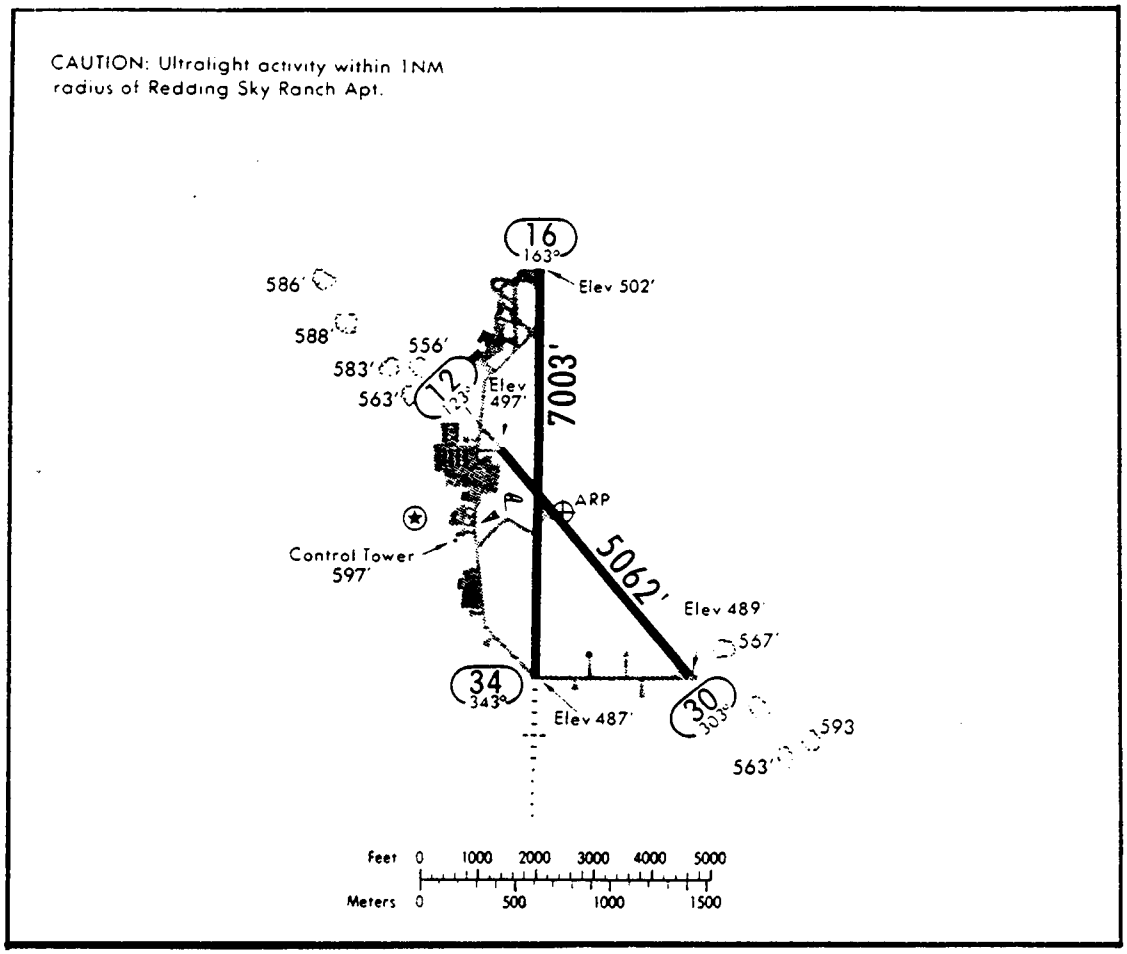
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 28R

REDDING CA (RDD)

AWP



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EXISTING

NONE

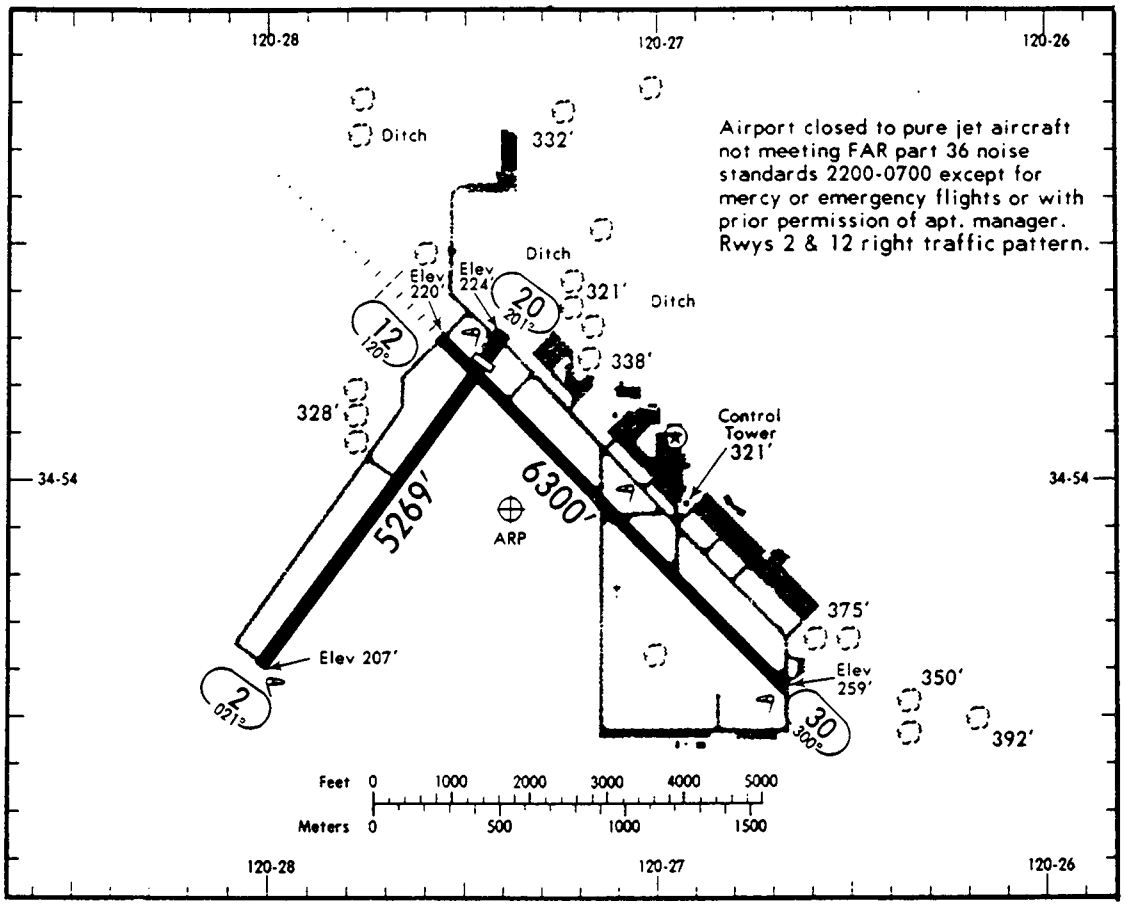
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 34

SANTA MARIA CA (SMX)

AWP



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EXISTING

NONE

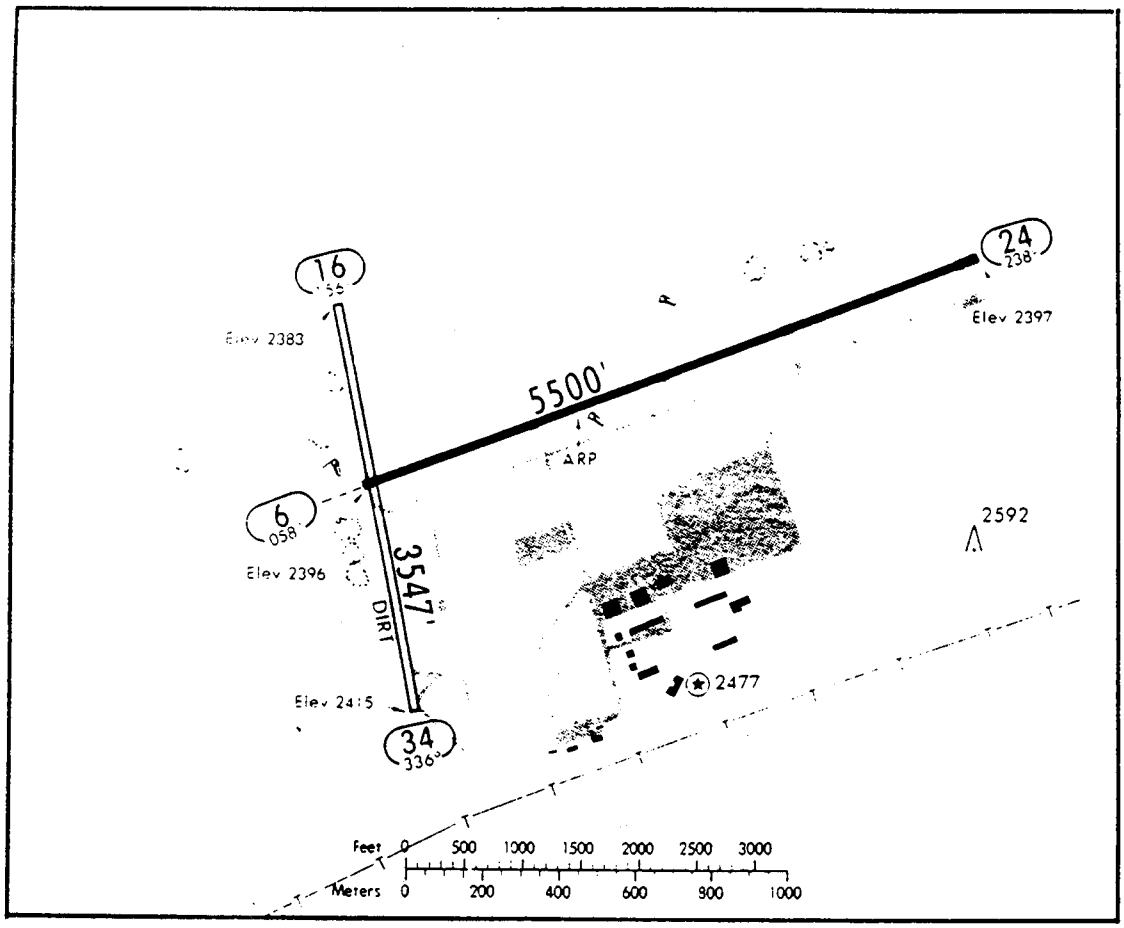
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 12

TUSCON AZ (TUS)

AWP



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EXISTING

NONE

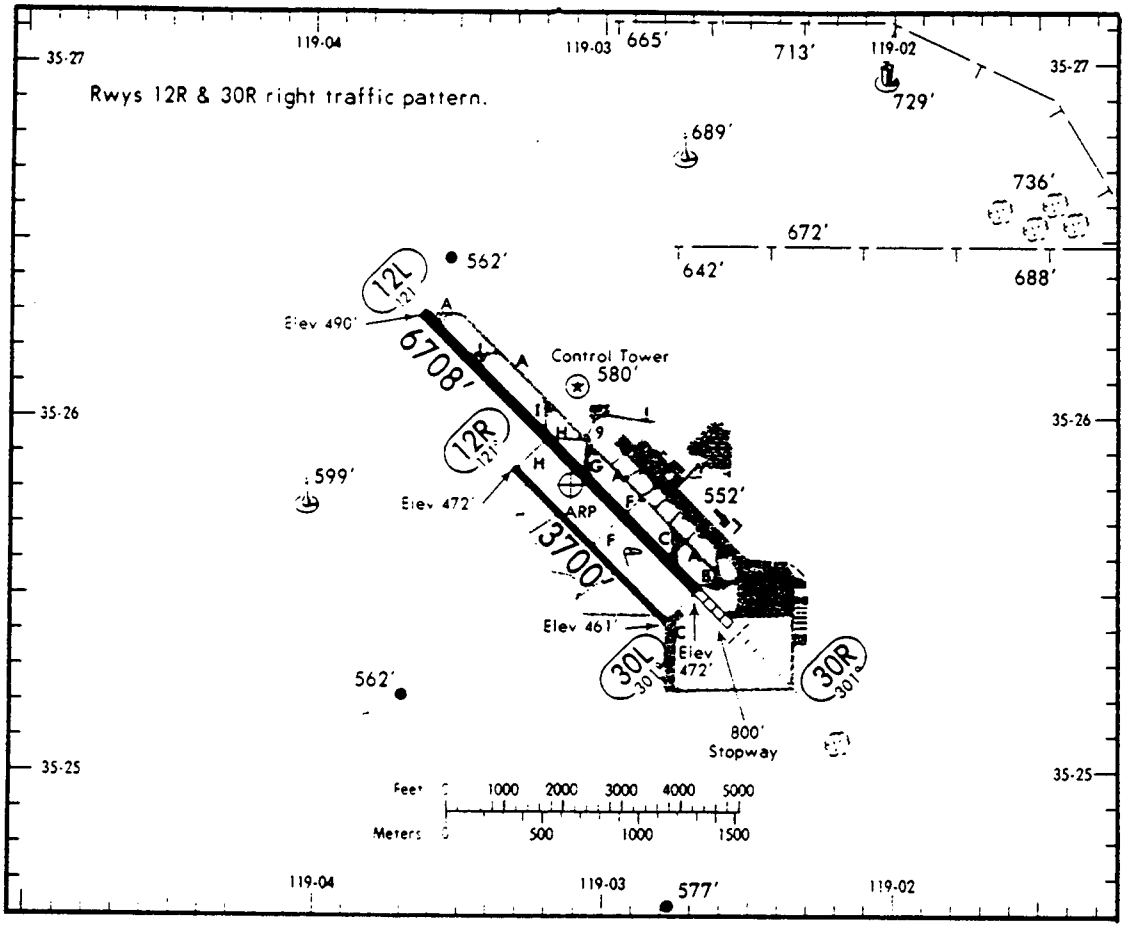
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	ESTABLISH	R/W 11

BAKERSFIELD CA (BFL)

AWP



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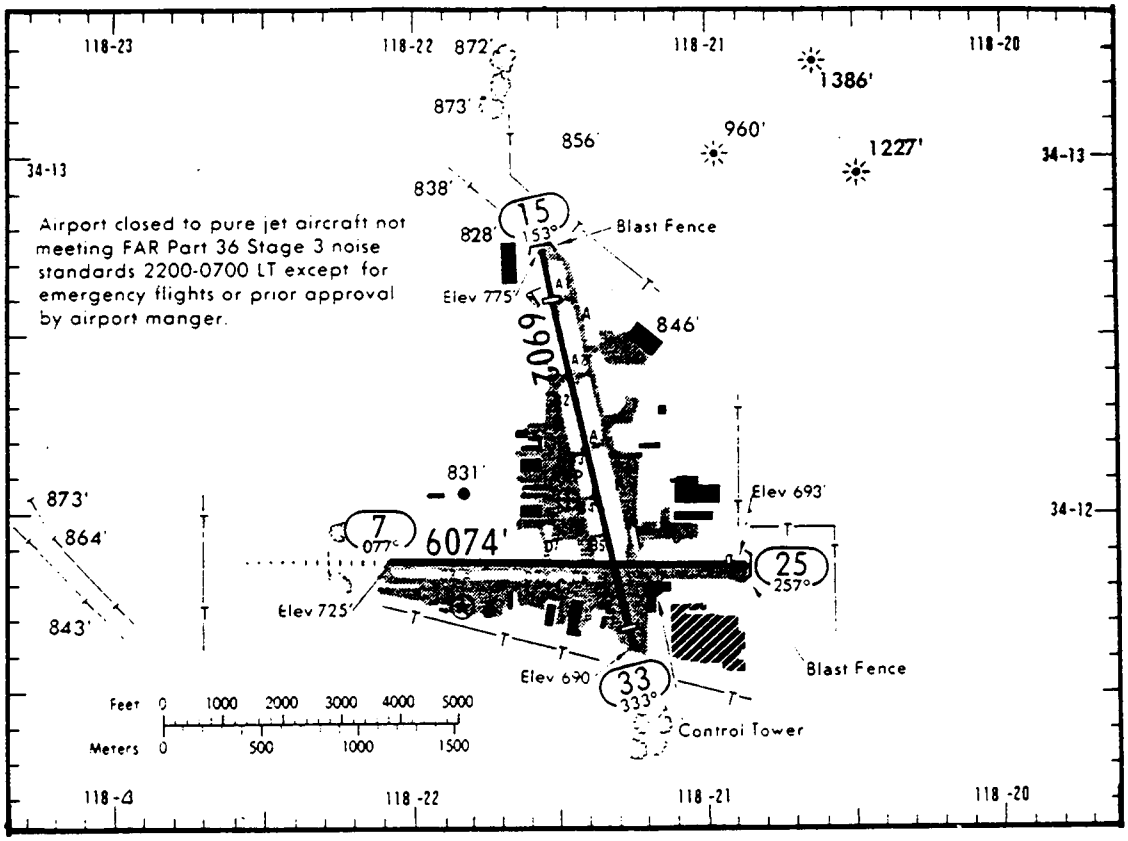
	EXISTING	NEW GENERATION
30R	347AG	
BFL	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	CONVERT RVV	R/W 30R

BURBANK CA (BUR)

AWP



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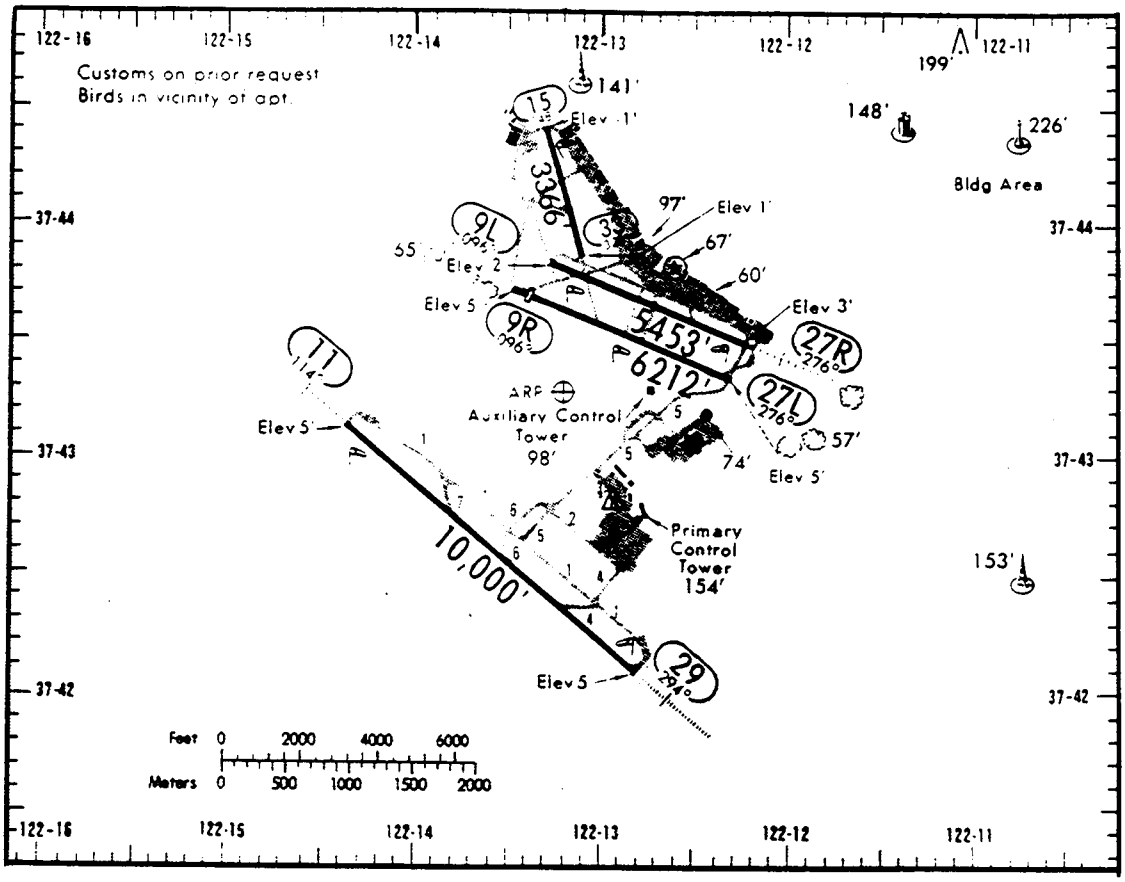
	EXISTING	NEW GENERATION		
07	347AG	System Elements		QTY REQ'D
BUR	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	4	
		NWS	–	
		Other	–	
		Total Displays		6

FY 85	CONVERT R/V	R/W 07

OAKLAND CA (OAK)

AWP



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EXISTING

27R	34711
OAK	TD
29	347AE
INB	TD
INBA	RO
INBC	MP

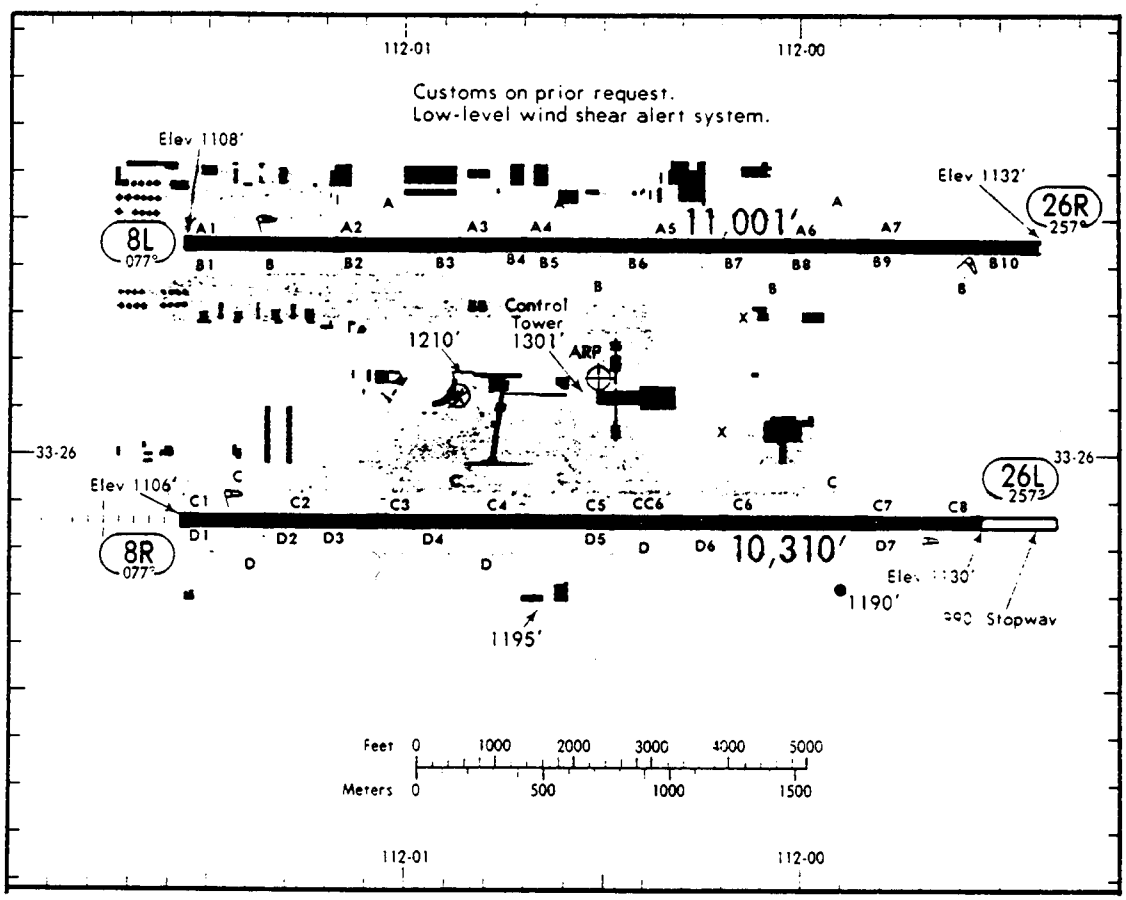
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		3
RLIM		1
Displays		
ATCT	7	
TRACON	1	
NWS	–	
Other	–	
Total Displays		8

FY 85	CONVERT RVV	R/W 27R

PHOENIX AZ (PHX)

AWP



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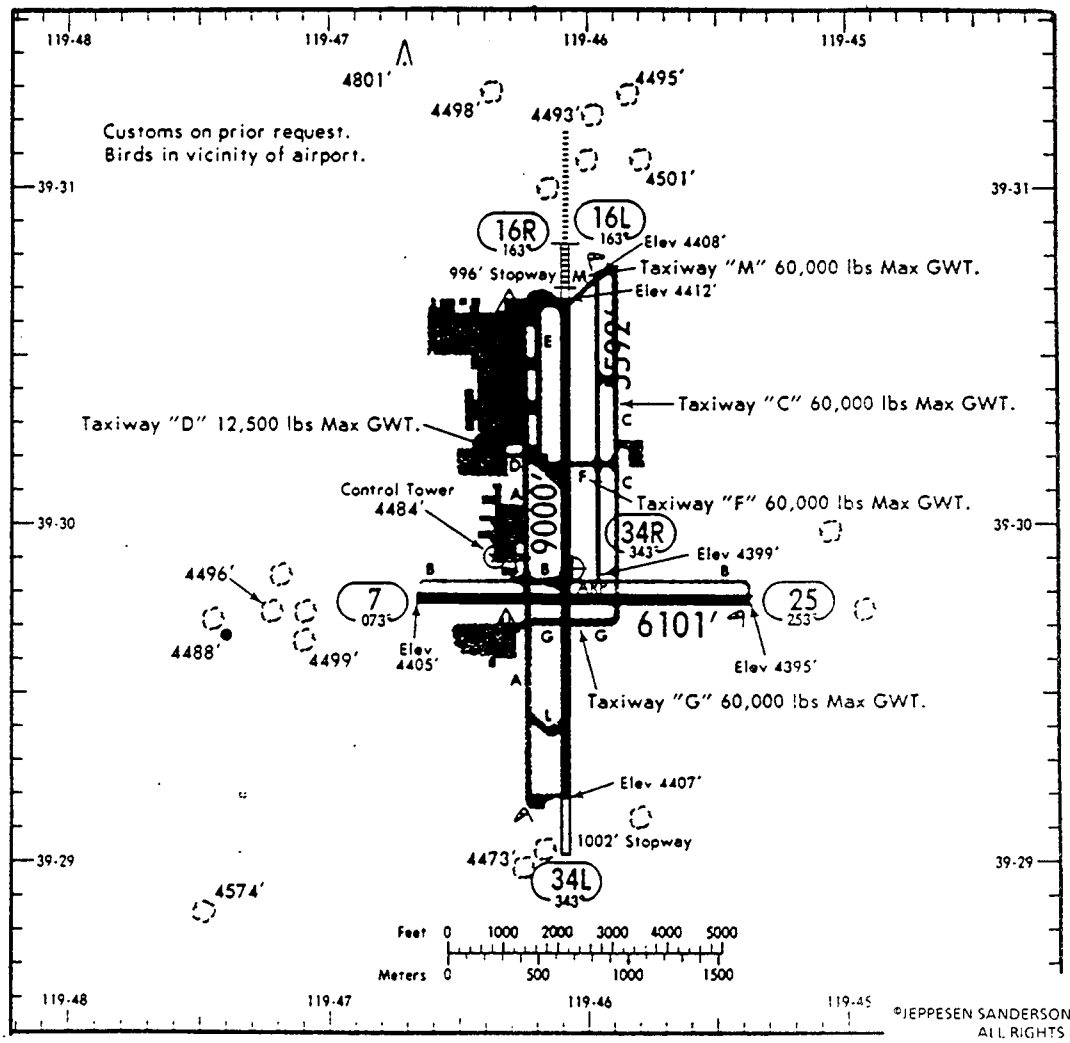
	EXISTING	NEW GENERATION		
08R	347AG	System Elements		QTY REQ'D
PHX	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	1	
		TRACON	–	
		NWS	1	
		Other	–	
		Total Displays		2

FY 85	CONVERT RVV	R/W 08R

RENO NV (RNO)

AWP



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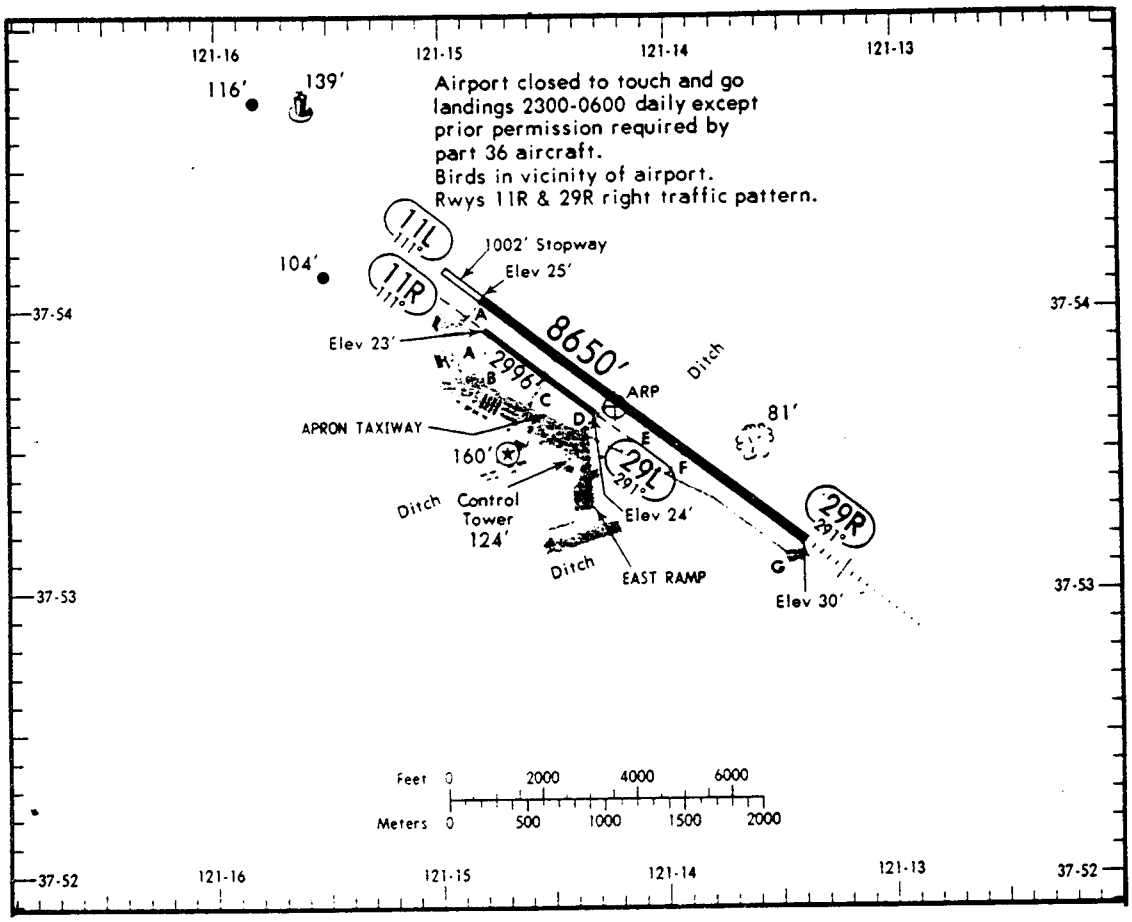
EXISTING		NEW GENERATION	
16	34711	System Elements	QTY REQ'D
RNO	TD	Basic	1
		Sensor Packages	–
		RLIM	–
		Displays	
		ATCT 1	
		TRACON –	
		NWS 1	
		Other –	
		Total Displays	2

FY 85	CONVERT RVV	R/W 16

STOCKTON CA (SCK)

AWP



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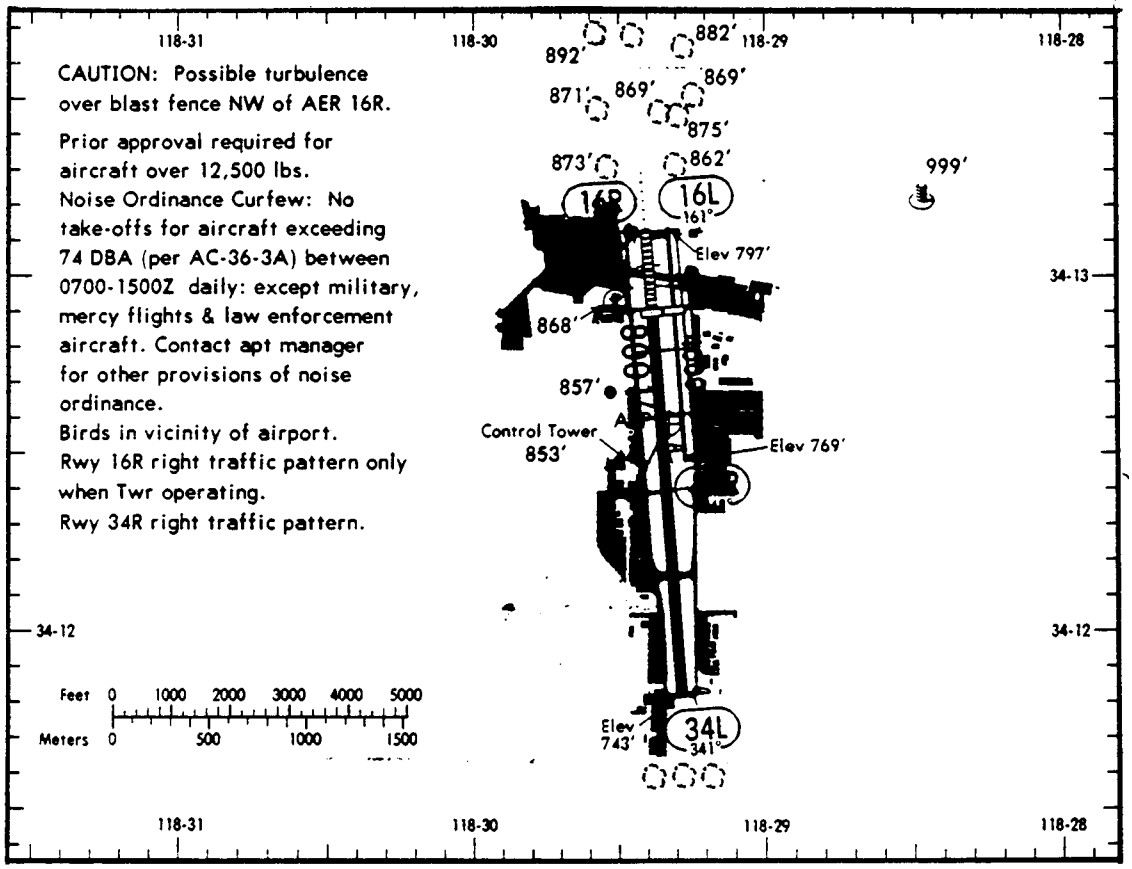
	EXISTING	NEW GENERATION		QTY REQ'D
29R	34711	System Elements		
SCK	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	1	
		NWS	–	
		Other	–	
		Total Displays		3

FY 85	CONVERT RVV	R/W 29R

VAN NUYS CA (VNY)

AWP



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EXISTING

16R	34711
VNY	TD

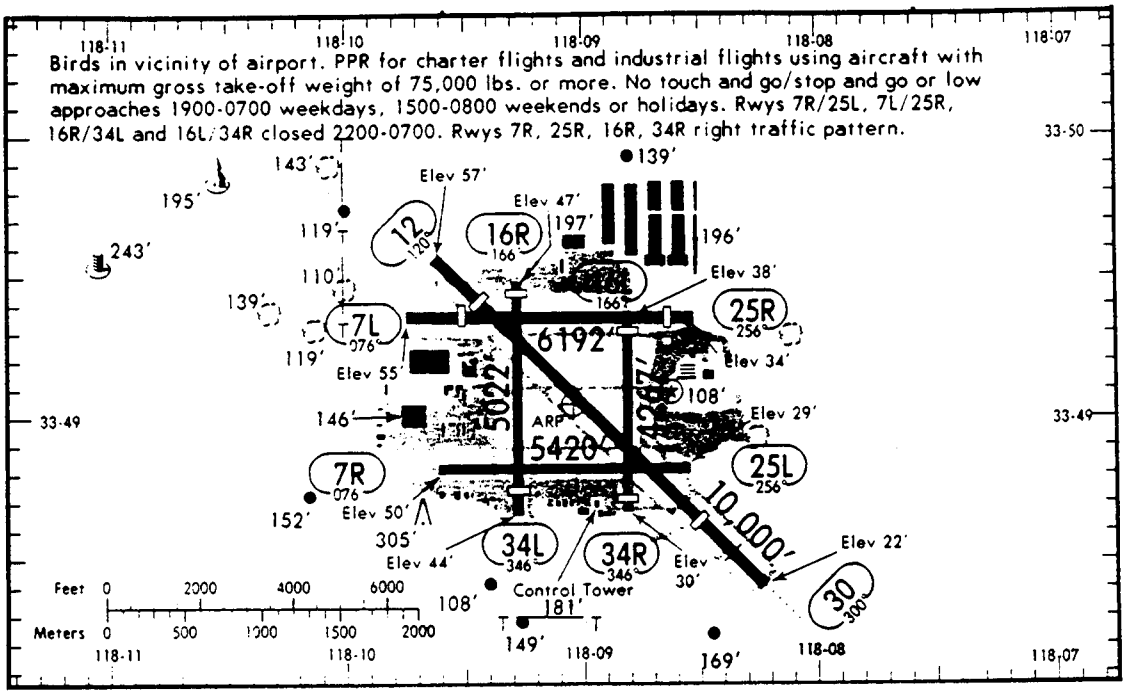
NEW GENERATION

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 85	CONVERT RVV	R/W 16R

LONG BEACH CA (LGB)

AWP



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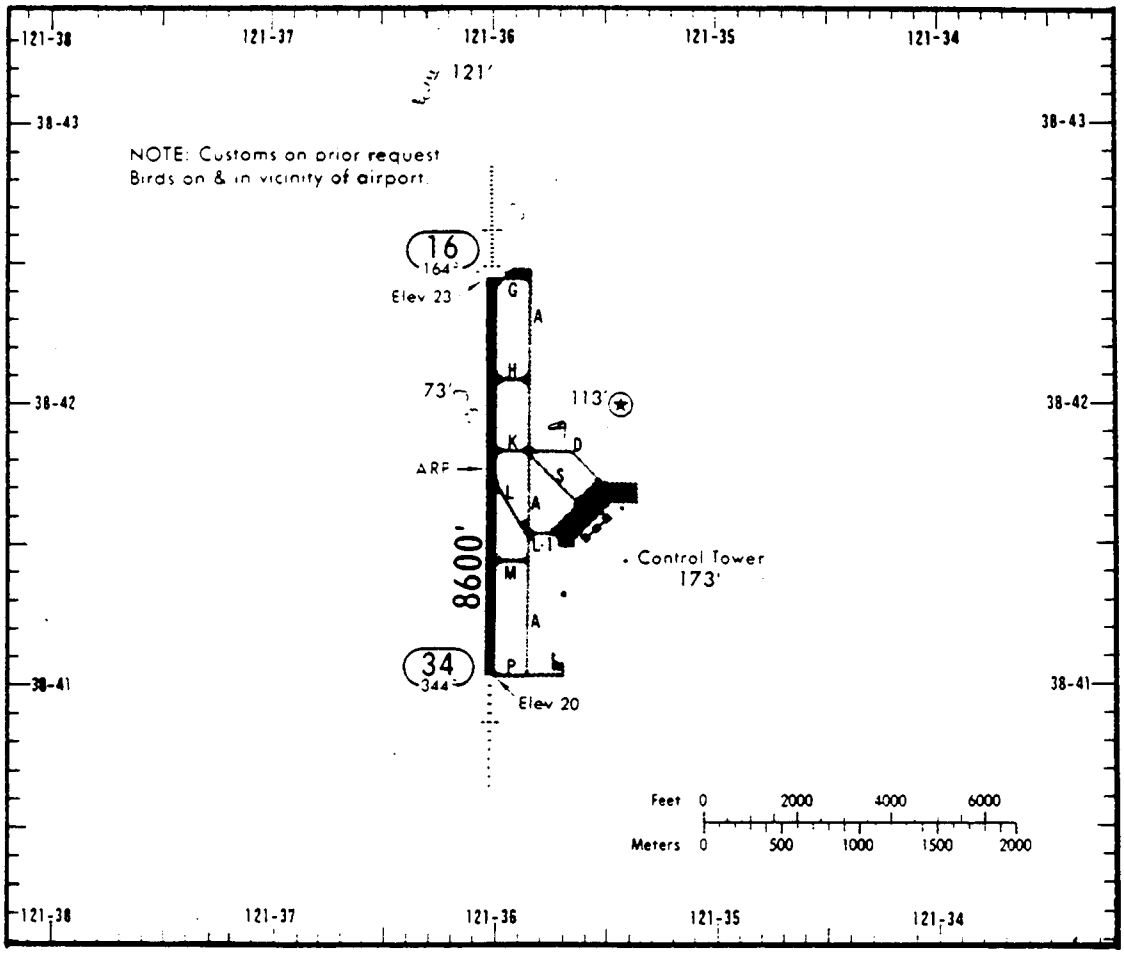
	EXISTING	NEW GENERATION		
30	34715	System Elements		QTY REQ'D
LGB	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	3	
		NWS	–	
		Other	–	
		Total Displays		6

FY 86	REPLACE	R/W 30

SACRAMENTO METROPOLITAN CA (SMF)

AWP



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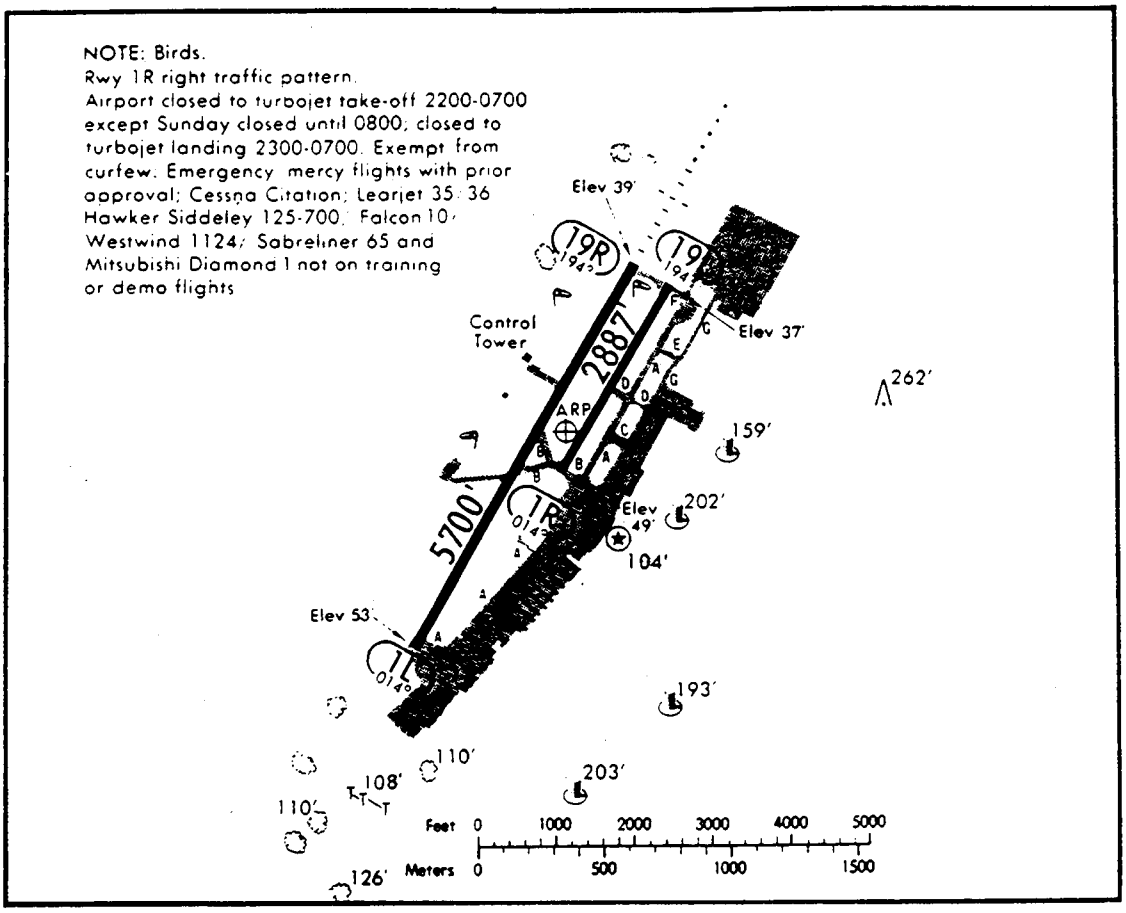
EXISTING		NEW GENERATION		
16	347AD	System Elements		QTY REQ'D
SMF	TD	Basic		1
SMFA	RO	Sensor Packages		2
SMFB	MP	RLIM		–
		Displays		
		ATCT	5	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		5

FY 86	REPLACE	R/W 16

SANTA ANA CA (SNA)

AWP



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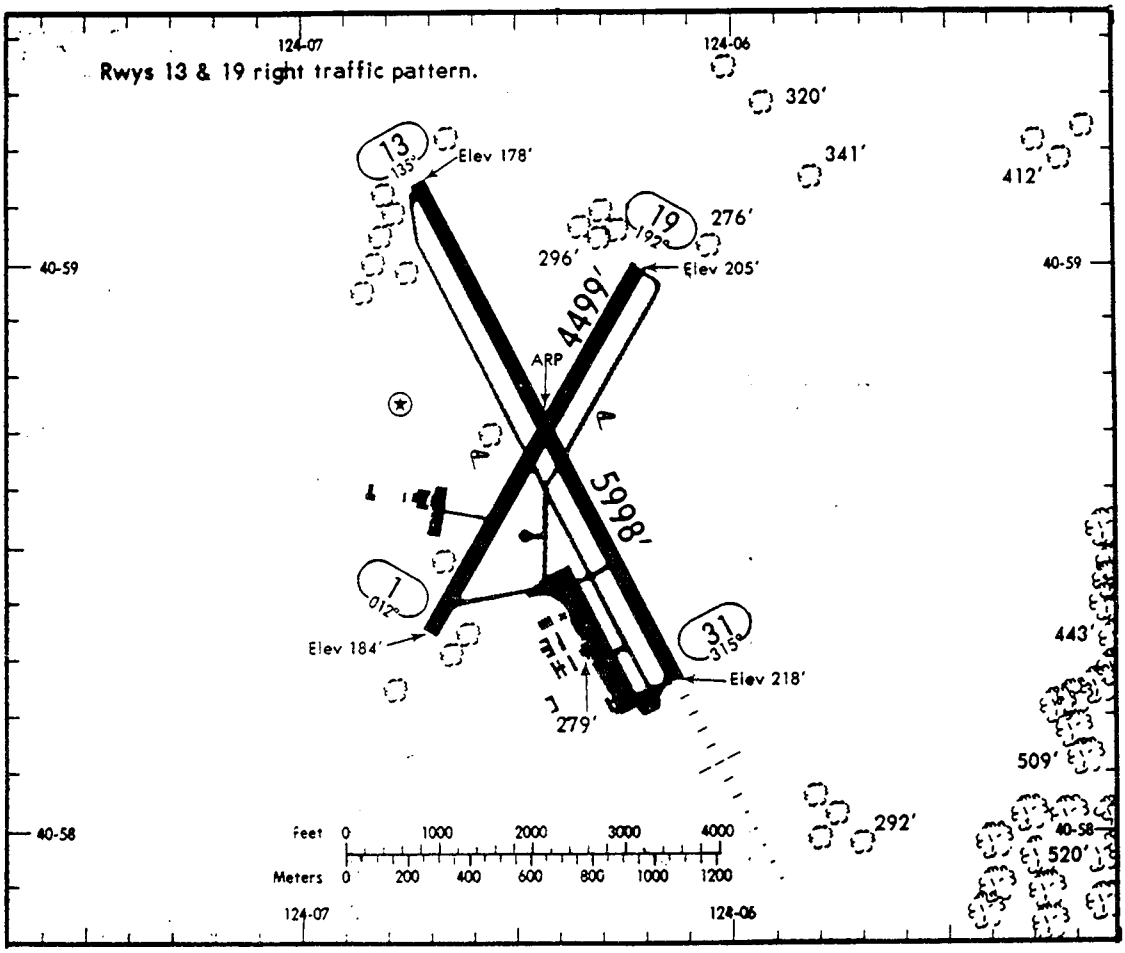
	EXISTING	NEW GENERATION		
19R	347AD	System Elements		QTY REQ'D
SNA	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	3	
		NWS	–	
		Other	–	
		Total Displays		6

FY 86	REPLACE	R/W 19R

ARCATA CA (ACV)

AWP



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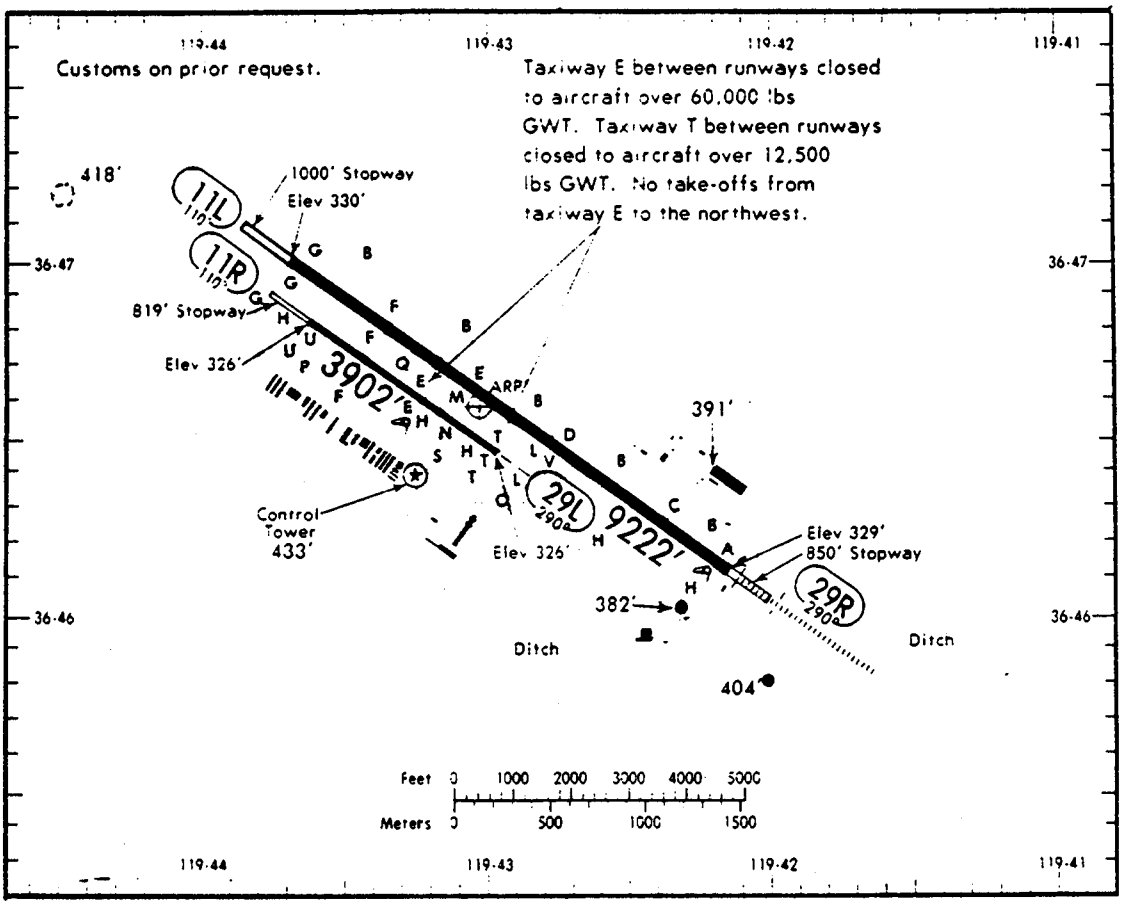
EXISTING		NEW GENERATION		
31	347AE	System Elements		QTY REQ'D
ACV	TD	Basic		1
ACVA	RO	Sensor Packages		1
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 31

FRESNO CA (FAT)

AWP



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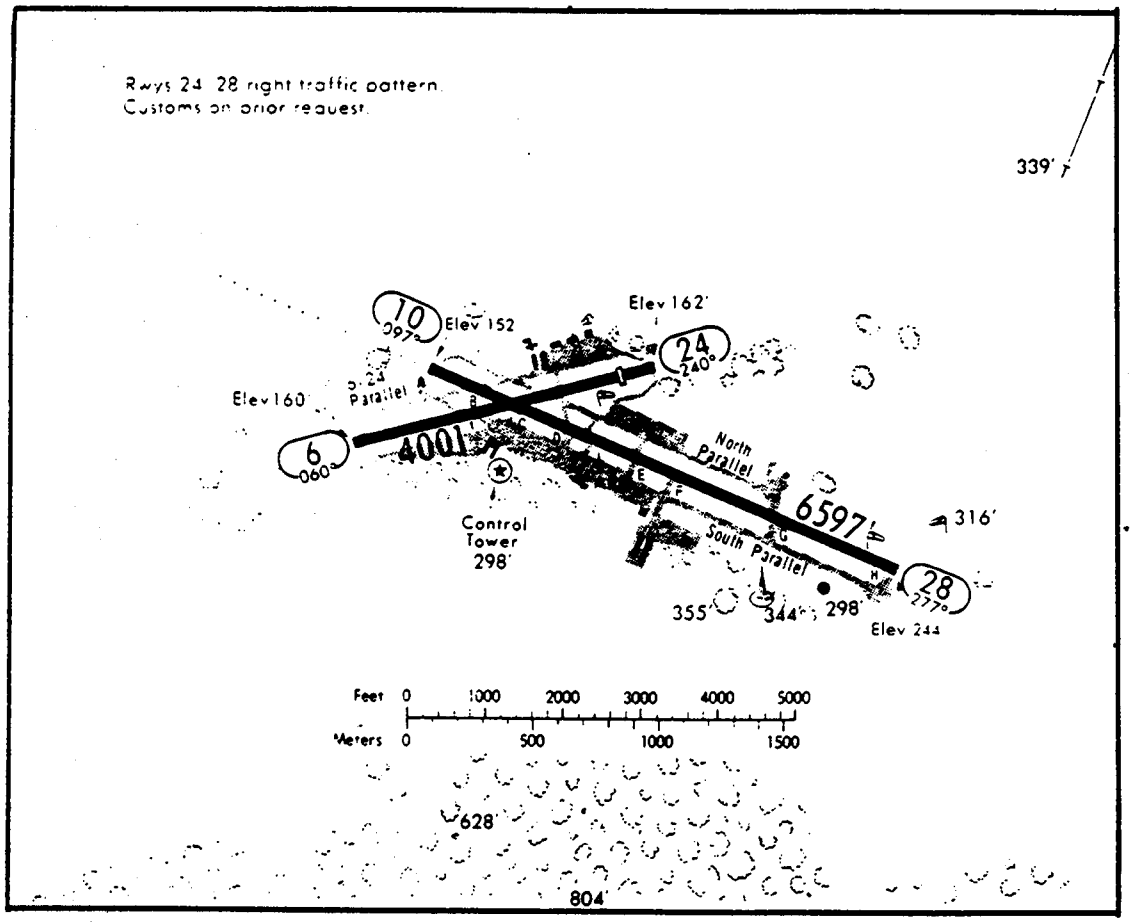
	EXISTING	NEW GENERATION
29R	347AE	
FAT	TD	
FATA	RO	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		1
RLIM		–
Displays		
ATCT	2	
TRACON	–	
NWS	–	
Other	–	
Total Displays		2

FY 93	REPLACE	R/W 29R

MONTEREY CA (MRY)

AWP



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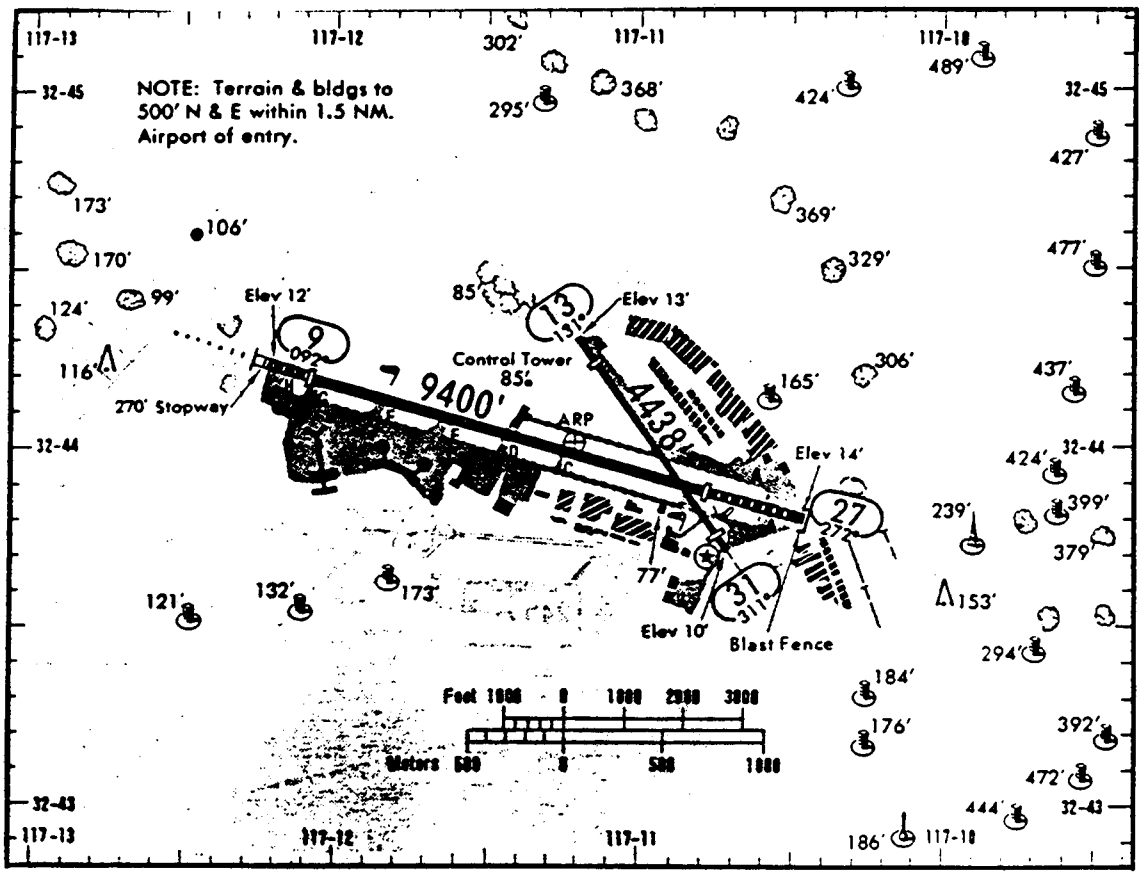
	EXISTING	NEW GENERATION
10	347AE	
MRY	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	3	
TRACON	–	
NWS	–	
Other	–	
Total Displays		3

FY 93	REPLACE	R/W 10

SAN DIEGO CA (SAN) AWP



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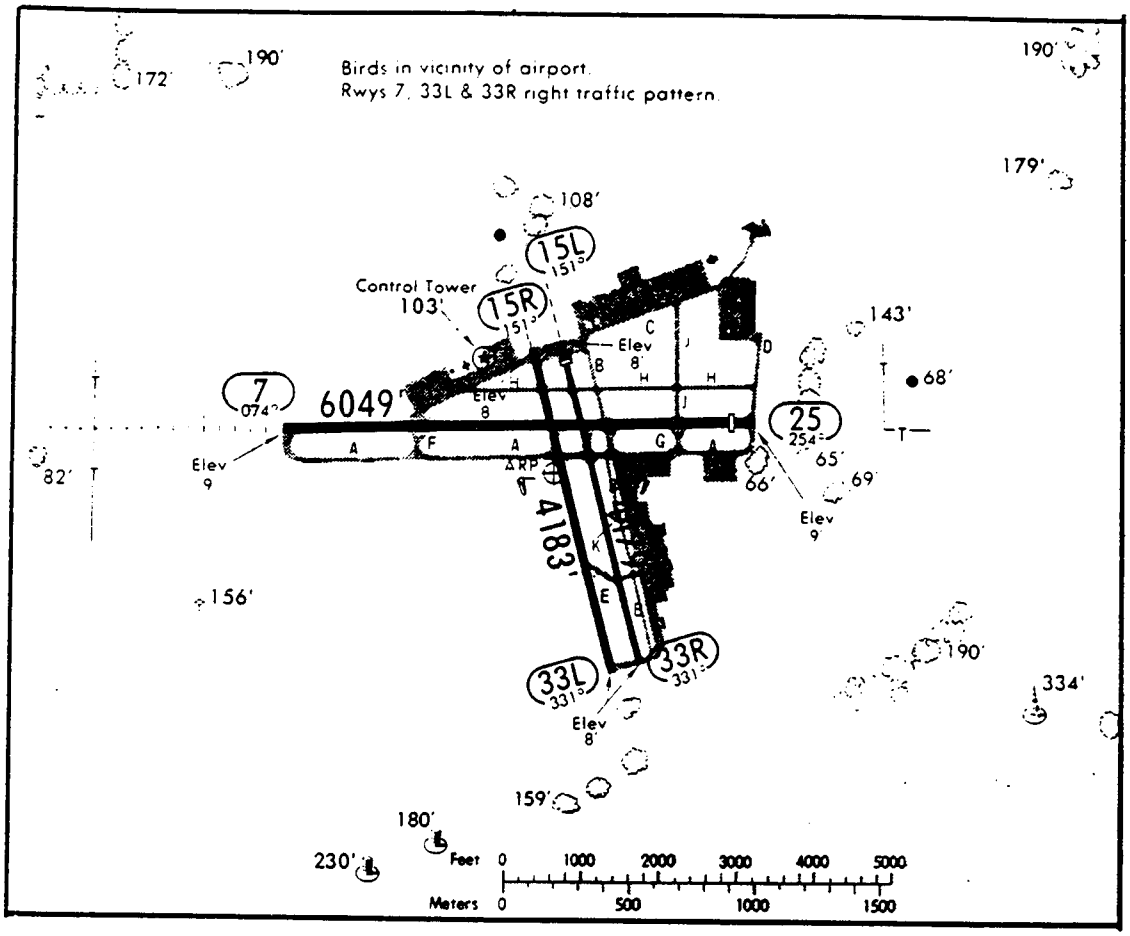
	EXISTING	NEW GENERATION		
09	347AE	System Elements		QTY REQ'D
SAN	TD	Basic		1
		Sensor Packages		1
27	347AE	RLIM		–
SANA	TD	Displays		
		ATCT	4	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 09/27

SANTA BARBARA CA (SBA)

AWP



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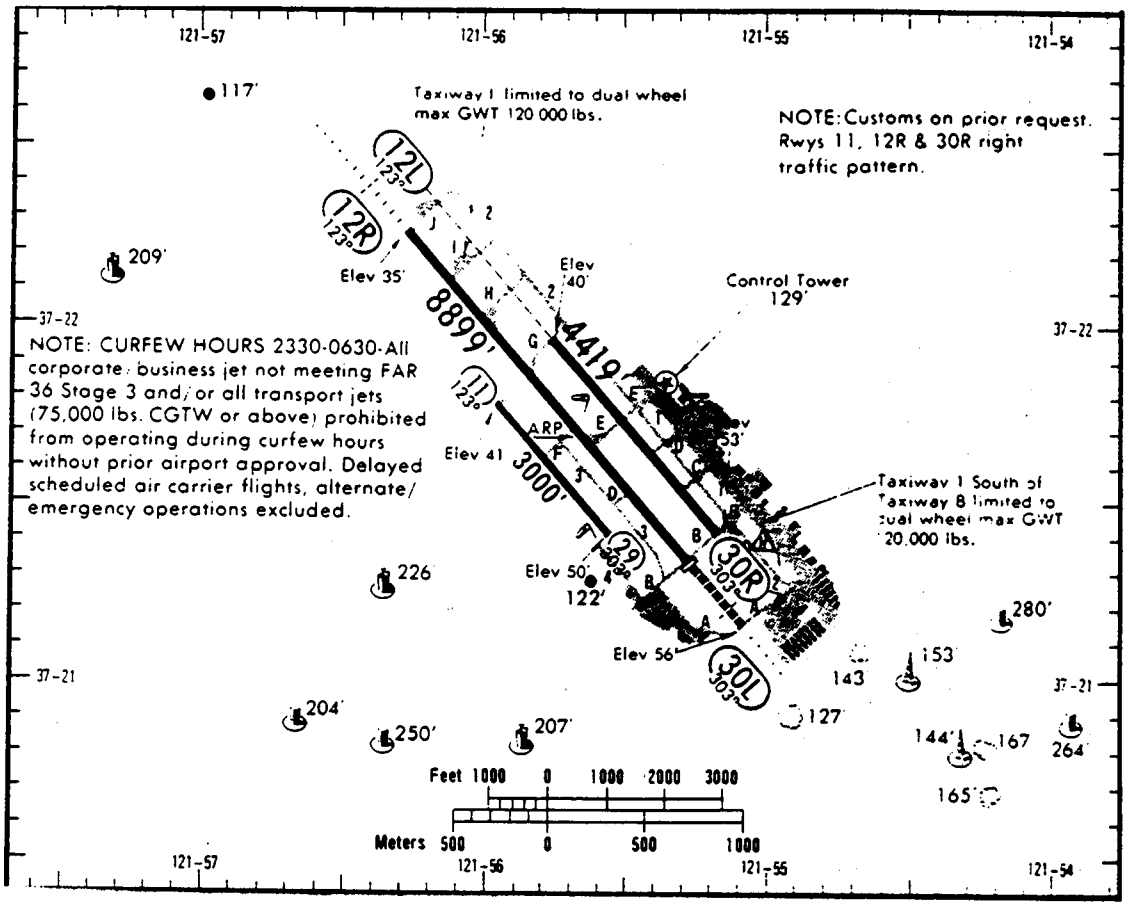
	EXISTING	NEW GENERATION
13	347AE	
SBA	TD	

System Elements		QTY REQ'D
Basic		1
Sensor Packages		–
RLIM		–
Displays		
ATCT	2	
TRACON	1	
NWS	–	
Other	–	
Total Displays		3

FY 93	REPLACE	R/W 07

SAN JOSE CA (SJC)

AWP



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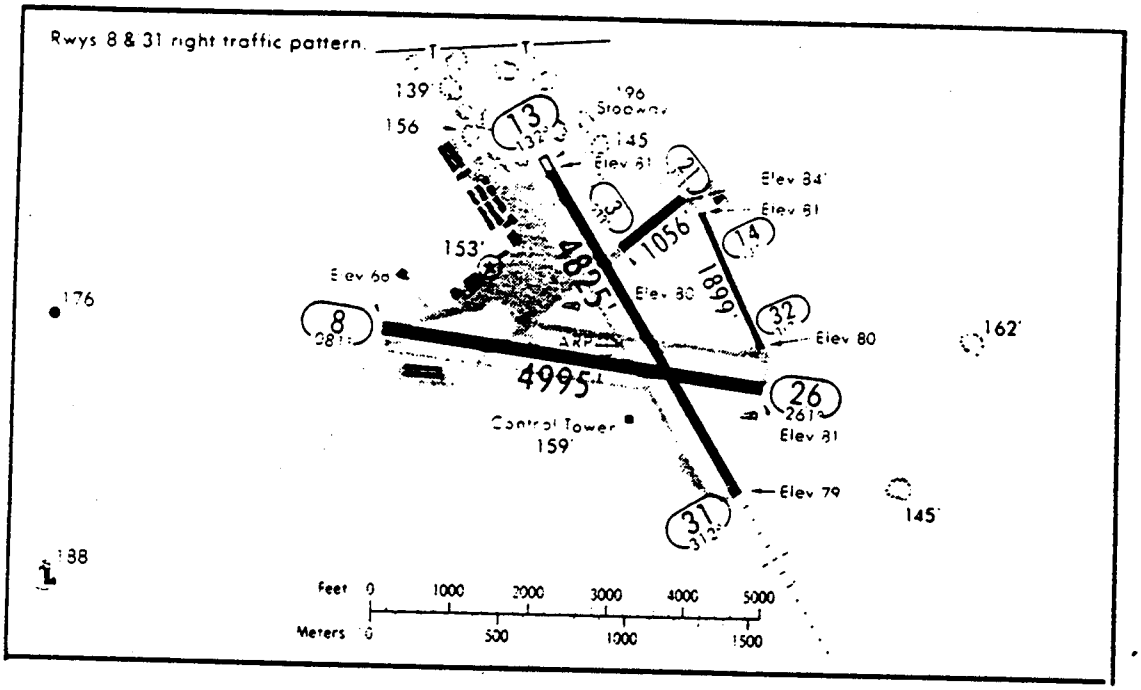
	EXISTING	NEW GENERATION		
30L	347AE	System Elements		QTY REQ'D
SJC	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	3	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		3

FY 93	REPLACE	R/W 30L

SALINAS CA (SNS)

AWP



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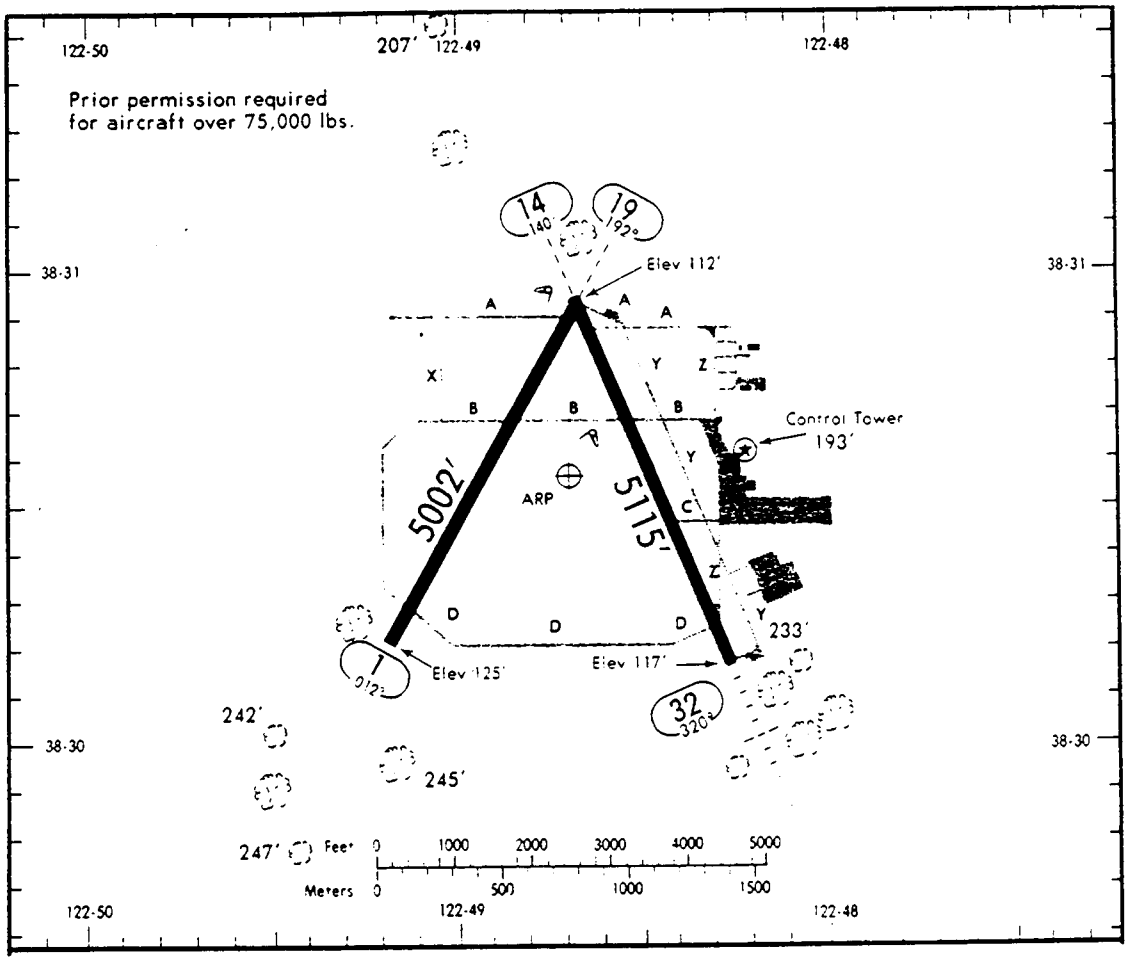
	EXISTING	NEW GENERATION		
31	347AE	System Elements		QTY REQ'D
SNS	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	4	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		4

FY 93	REPLACE	R/W 31

SANTA ROSA CA (STS)

AWP



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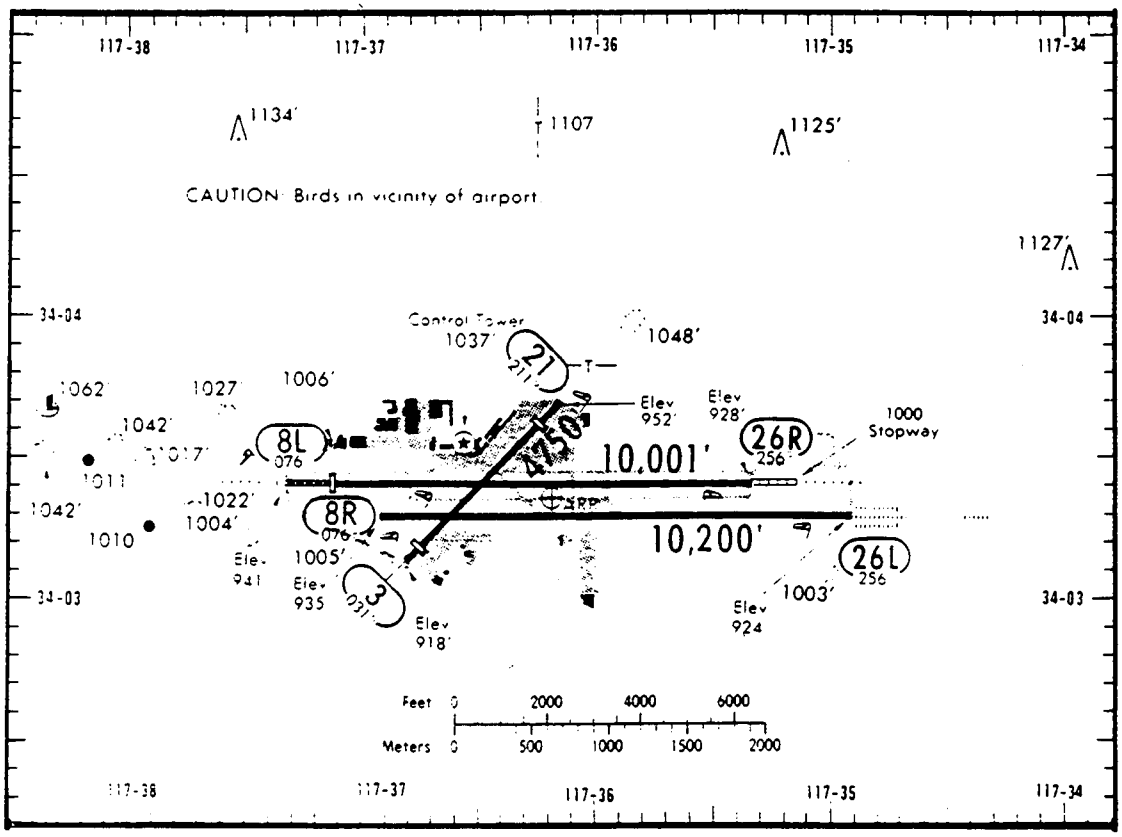
	EXISTING	NEW GENERATION		
32	347AE	System Elements		QTY REQ'D
STS	TD	Basic		1
		Sensor Packages		–
		RLIM		–
		Displays		
		ATCT	2	
		TRACON	–	
		NWS	–	
		Other	–	
		Total Displays		2

FY 93	REPLACE	R/W 32

ONTARIO CA (ONT)

AWP



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EXISTING		NEW GENERATION		
26L	347AE	System Elements		QTY REQ'D
TWO	TD	Basic		1
TWOA	RO	Sensor Packages		2
TWOB	MP	RLIM		–
		Displays		
		ATCT	2	
		TRACON	4	
		NWS	–	
		Other	–	
		Total Displays		6

FY 93	REPLACE	R/W 26L

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