

TOTAL PART I CRIMES	,		1	j
	1			
MOTOR VEHICLE THEFT	1,111	19		29
ARCENY-THEFT	7,256	1,073		682
BURGLARY	3,960	294		260
AGGRAVATED ASSAULT	1,541	870		145
ROBBERY	456	87		103
FORCIBLE RAPE	110	58		8 21
MURDER	14	11		
түре	ACTUAL OR KNOWN OFFENSES	OFFENSES C	LEARED	ARRESTS
Provide the fol: (as reported in	lowing data for Part I the Uniform Crime Repo	ottenses for the orts).	current report o	quarter
1.1 CRIME STATISTICS			•	
	DEPARTMENT INFORMATION			
			, ,	
	nugnes - neiss	& Associates nue, Suite 319 94401	PH: (415)	343-4508
ME, WORESS, TEL . OF LOCAL EVA				
See Final H-1 Rep	ort	December 31	, 1980	
YOUNT OF GRANT NONLES EXPENDED	TO DATE	EXPECTED GRANT END DATE	er or porre	
Brodshaw'		Robert V. Bra Assistant Chi		
SIGNATURE OF PROJECT DIRECTOR	October 1, 1980	Decem	ber 31, 1980 OJECT DIRECTOR	
REPORT IS SUBMITTED FOR THE PERIO		THROUGH		
ntegrated Criminal	Apprehension Progra	m \$333.33	3	
SHORT TITLE OF PROJECT		GRANT AMOUNT		
San Jose, CA 95103		FINAL REPORT		
San Jose Police Dep Post Office Box 270		REGULAR	SPECIAL R	EQUEST
IMPLEMENTING SUBGRANTEE		TYPE OF REPORT		
City of San Jose		79-DF-AX-0077	March 31, 1981	6
JRANTEE		LEVA JRANT NO.	DATE OF REPORT	REFORT NO.
AW ENFORCEMENT ASSIS	TANCE ADMINISTRATION	•	PROGRESS REPORT	

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1.3 MANPOWER ALLOCATION U.S. Department of Justice National Institute of Justice ors and of the reproduced exactly ginating it. Points of se of the authors a iton or policies of th

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1.2 PERSONNEL ACTIVITY

(for Patrol Personnel)

Number of Sick Days (Patrol only)	764.9
Number of Injury Days (Patrol Only) '	461.9
Number of Requests for Transfer from Patrol to Other Units	N/A
Number of Requests for Transfer from Other Units to Patrol	N/A

ce Service (NCJRS).

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lission to repre

Please indicate the numbers of sworn personnel assigned to major de-partment divisions and total sworn personnel. (Has this changed since the last report period? Yes NoX If there has been no change proceed to question 1.4).

Patrol

Investigations

Crime Prevention

Special Operating or Tactical Units

Traffic

Other

Total Sworn Personnel

NGJRS APR 13 (981

AC STTIONS

Temporary Processing Resolution Call

Document Title: INTEGRATED CRIMINAL APPREHENSION PROJECT: THIRD GRANT FINAL REPORT

NCJ# (if applicable)

Author:

Problem (describe):

· APPENDIX I. ATTACHED REPORT MISSING

Contact:

Dr. McMillian, Research and Development Planning Name:

Address: San Jose Police Department

San Jose, CA 95103

408=277=4000 Phone:

Result:

10-6-82: Talked to Dr. McMillian, she will try to locate missing material. will get back to me soon-

TAlked to Mr. Bill Cology (408-277-5200) police Dopt. 10-13-82. Will Send it right out SANJON police Dopt.

October 19, 1982: Received missing material. Doc cleared. 🗤

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Date: October 6, 1982

1.4 ORGANIZATIONAL CHANGES 4 \odot

Please describe changes in key personnel or organization (chief, program director, manager, crime analyst or overall organizational structure). Further, describe significant changes in city administration. Indicate the time frames involved, the impact of the changes on department operations and ICAP implementation.

Staff Analyst II, Avelina Wood, transferred to the ICAP developed Operations Support Unit. 11-23-80

On November 23, 1980, San Jose's ICAP-developed Operations Support Unit (OSU) began operating in the Department's Records Division. Implementation will be phased with all burglary and receiving stolen property cases being processed in the first phase.

New case audit, enrichment, quality control, and screening functions as described in the narrative final report attached are being performed in addition to ongoing Crime Analysis and Information Coordination Services. This accomplishment represents the major ICAP contribution to the improvement of the investigative process in the San Jose Police Department. Impact on investigative operations is anticipated to be substantial. The OSU's manager reports that OSU is processing approximately 40% of all felony cases reported to the Department and is screening out (retaining in inactive status) 79.4% of those cases it processes.

SECTION 2: MAJOR ICAP COMPONENTS

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2.1 CRIME ANALYSIS -- PROCESS AND OUTPUT

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2.1.1 Indicate files maintained and/or utilized by crime analysis. "Files maintained" include those for which the crime analysis unit is responsible for input and editing of data/materials. "Files utilized" include those files used by the unit for purposes of data collection and analysis. The unit may use certain files without maintaining the file. (Has this changed during the report period?

No X Yes 🗍

If no, proceed to question 2.1.2. If yes, please indicate all files now maintained or utilized by crime analysis. Do Not indicate only the additions or deletions.)

		IINED BY	BY BY	SISATE
FILE	•	AM INTA INED	USED CRIME	/
OFFENSE REPORTS NON-CRIMINAL INCIDENT REPORTS SUPPLEMENTAL REPORTS ARREST REPORTS CAREER CRIMINAL FILES SUSPECT FILES SUSPECT VEHICLE FILES FIELD INTERROGATION FILES WANTED PERSONS REPORTS PHYSICAL CHARACTERISTICS FILE PROPERTY FILE OTHERS	2			

all items.) CHECK HERE, IF APPROPRIATE PRODUCT

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2.1.2 Indicate use by the crime analysis unit of other files maintained by the Data Processing Division or other department units, e.g., a property file maintained by Investigations, on-line warrant files, etc. (Has this changed during the report period? Yes No X If no, please proceed to question 2.1.3. If yes, list all files now used; do not note just the deletions or additions).

MAINTAINING UNIT/DIVISION

FILE

2.1.3 Indicate crime analysis products, the frequency of their distribution (monthly, weekly, daily, as needed) and to whom they are distributed (patrol commanders and officers, investigations, crime prevention unit, etc.). (Has this changed during the report period? Yes No X If no, please proceed to question 2.2.1. If yes, please complete for

PRODUCTS	FREQUENCY (E.G., DAILY, WEEKLY, ETC.)	DISTRIBUTION (FATROL, INVESTIGATIONS, CRIME PPEVENTION)
INFORMATION BULLETINS		24
CRIME ANALYSIS RECAPS		
CRIME SUMMARIES		
PATROL OPERATIONS BULLETINS		
CRIME SPECIFIC MEMORANDA		
CAREER CRIMINAL BULLETINS		
OTHERS:		
		Þ
	I	<u></u>

2.2 CRIME ANALYSIS -- ACCEPTANCE AND UTILIZATION

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2.2.1 Indicate the number and source of special requests for crime analysis information. (Sources, for example, include Patrol, Investigations Division, Crime Prevention Unit, Administration, Tactical Unit, etc. Also note requests from outside agencies.)

REQUESTING DIVISION/OUTSIDE AGENCY	NO. OF REQUESTS
Patrol	20
Investigations	43
Administration	16
Outside Agencies	11
TOTAL REQUESTS FOR THE QUARTER	90

2.2.2 Indicate the number of responses made to special requests this quarter. The number of responses includes responses to "new requests" received this quarter and any responses made in the current report period to a request which was received in a prior quarter. Total responses within the quarter are sought.

TOTAL RESPONSES FOR THE QUARTER 90

2.2.3 Have crime analysis products directly supported (i.e., provided the basis for) any tactics or strategies initiated during this quarter? Provide specific examples for each area listed below. Where data is available, quantify those responses (e.g., "X" stake-outs conducted based on tactical information provided by crime analysis).

NO " YES X CRIME PREVENTION ACTIVITIES: IF YES, PROVIDE AN EXAMPLE .

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TACTICAL/SPECIAL OPERATING UNIT ACTIVITIES: YES X NO EXAMPLE(S)

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EXAMPLE		baarsa)			
EXAMPLE	(3)				<u>i</u>
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			· · · · · · · · · · · · · · · · · · · ·		
TNUEST	GATIVE SUPPORT:		NO	77	
<u></u>		YES X	NO	السلم	· •
EXAMPLE	(5)			······································	·
			8: 13 - 14: 14: 14: 14: 14: 14: 14: 14: 14: 14:		• • • • • • • • • • • • • • • • • • •
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007115.0	· · · · · · · · · · · · · · · · · · ·		T 110		
OTHER		YES	." NO	X	
EXAMPLE	(5)	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
					······
		· · · · · · · · · · · · · · · · · · ·			
OPERATI	ONS ANALYSIS		e .		
1 Total	number of calls for service	∍ <u>51,149</u> .			
2 Numbe	r of calls for service hand.	led through:			
			i i i		
	- - - -				
	Patrol Unit dispatch	43,145			
	Telephone/Mail-in Reports		· •		
	Walk-in reports	1,201			•.
	Community Service				•
	Officer or				
	Civilian Aide	<u>N/A*</u>			
	s of integrating police				

2.3.3 Proportion of CFS by Time. Please indicate the percent of CFS the department receives by time of day. Frequently departments breakout 2.3.6 Average Time per CFS 43:00. CFS by 8 hr blocks. The grid below provides space to note the times of day for three eight hour blocks and the percent of calls re-2.4 PATROL AND INVESTIGATIONS ceived within those blocks. Other departments have a more refined breakdown of CFS by time (e.g., by the hour). Please provide the 2.4.1 Number of patrol personnel assigned to each shift on the last day most refined data available. Attach additional sheets (or add to the of the reporting quarter. grid) as required. % CFS Time % CFS Time % CFS Time 5.7 1600-1700 FIRS 3.1 0000-0100 - 4.7 0800-0900 -6.1 1700-1800 -3.1 _ 0900-1000 0100-0200 - 3.9 SECC 5.8 1000-1100 - 3.5 1800-1900 -0200-0300 -3.6 5.7 - 4.0 1900-2000 0300-0400 -THIR 1100-1200 2.6 5.5 2000-2100 -- 4.1 1200-1300 1.8 0400-0500 -FOUR 5.6 4.3 2100-2200 1300-1400 -0500-0600 -1.5 6.0 4.5 2200-2300 1400-1500 2.4.2 Indicate the number of investigations conducted during the quarter -0600-0700 - 1.7 5.7 5.1 2300-2400 0700-0800 - 2.4 1500-1600 according to: · Source: CAPSS Log INVESTIGATORS 2.3.4 Does the department have a formal policy for: NO 🗌 YES K PRIORITIZING CFS PREI NO YES X STACKING CALLS FOLI With the first submission of this report form please attach formal department policy/criteria for prioritizing and stacking calls. For all other submissions, attach only revisions. Please attach written policy governing investigative case screening criteria to the first submission of this report form. Indicate changes/new policies on subsequent submissions. 2.3.5 Patrol Manhours Indicate the proportion of patrol hours consumed by: 2.4.3 Charging and Disposition Data Number of felony cases presented by the department % OF TIME to the prosecutor's office during this report period. Not Available at this time. Calls for Service Felony Cases Presented N/A Officer Initiated Activity Number of felony cases filed by the prosecutor during Personal & Administrathis report period. (Only for the department cases). tive Activities Felony Cases Filed 773 Other (SPECIFY) Free Patrol Number of felony convictions obtained this report Training Court Car Stops period (Only for department cases). 1.17 Total Patrol Manhours N/A Felon Convictions Obtained Indicate the basis for the percents shown and the time frame within which the data was collected (e.g., a study conducted June 1977, CAD 2.5 CRIME PREVENTION ACTIVITIES information for the current report period, an estimate based upon a sample of dispatch and activity logs for the period October to 2.5.1 Number of residential and commercial surveys conducted this report December 1978.) CAD information for the quarter. quarter. Resi Com

	TIME OF WATCHES	NO. OF PATROL PERSONNEL
ST WATCH	0630 - 1630	100
OND WATCH	1530 - 0130	126
RD WATCH	2100 _ 0700	83
RTH WATCH	N/A _	N/A

PATROL	

LIMINARY	13,233	1610
LOW UP	209	6366

idential .	Not Available		
mercial	u		
TOTAL	400 (Crime Prevention	Unit Only	/)

					2.7 WARRAN	IT SER
2.5.2 Indicate the number/proportion of surveys conducted by:					2.7.1 Felo	ony wa
2.5.2 Indicate the number/proportion of the NUMBER PERCENTAGE .					2.7.2 Felo	ony wa
Patrol No <u>t Ava</u> ilable				- 	2.7.3 Felo	ony wa
Crime Prevention Unit		1			quar	-
Others (Specify)					2.8 ICAP 1	RAVEL
2.6 DIRECTED PATROL					2.8.1 Desc	
2.6 DIRECTED PATROL The following questions apply to those departments with a directed patrol program. If not appropriate to your department, please indi- cate in the space provided and proceed to question 2.7					confer attend made t trip r	lance the ti
NOT APPLICABLE					N/A	oport
2.6.1 Describe, by checking one or more of the following, and quantify the department's directed patrol activities during the quarter.		an room and a second				
		a de la constante de				
Community Education and Organization Tactical Deployment		and a factor of the second				
Saturation Patrol		angen van de service and			· · ·	
Investigative Follow-Up		lan na mana an	•		2.8.2 Desc Indica	
Other. Please indicate					and ge	enera
		a a contra a			Novem	ber
2.6.2 Total number of directed patrol plans/runs prepared						Me
2.6.3 Number assigned/dispatched	-				of M.	P.D.
2.6.4 Number completed as scheduled		a na manana ang kang kang kang kang kang kang			regar	ding
2.6.5 Number canceled, delayed, or interrupted						· · · · · · · · · · · · · · · · · · ·
Optional 2.6.6 Number of hours consumed during the quarter by directed patrol			•			
2.6.6 Number of nours consumed daring and t						
2.6.7 Number of arrests attributed to directed patrol activities			¥گ			
		Stewares with				:
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arrants issued in the quarter 247 .

arrants served in the quarter 184 .

arrants outstanding as of the last day of the report <u>515</u>.

travel undertaken with ICAP funds -- to other departments , or training sessions -- during the quarter. (Exclude at ICAP cluster meeting). Indicate the individuals who rip, the dates and purpose. Attach to the Quarterly Report, ts completed by those who made the visits.

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visits made to your department by other ICAP departments. he visiting department individuals who made the trip, dates al purpose (e.g., to observe crime analysis unit operations, chnical assistance in crime analysis, etc).

20, 1980:

emphis P.D.: Earl Clark and three other members

visited S.J.P.D. to gain technical assistance

Mobile Computer Terminals.

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SECTION 3: PROJECT ACTIVITIES

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This section of the report is to capture the unique activities of each ICAP department, and to document those activities in relationship to stated individual project objectives. Each agency's implementation plan and schedule will be the basis for assessing agency activities and results. This section of the report includes *Quarterly Objectives*, *Present Activities/Results*, *Problems Encountered*, and *Status of Implementation*. Grantees should follow the instructions provided for completing each section. Additional sheets and appendices may be attached as required.

3.1 Quarterly Objectives: Major implementation steps and objectives for the reporting period are to be listed. These should include all objectives for the reporting period which are included in the Project Implementation Plan.

3.1.1: Complete functional development of Operations Support Unit (OSU).

3.1.2: Test OSU functions including Automated Case Enrichment System (ACES) enhanced with new disk drives.

3.1.3: Complete OSU staff selection and training.

3.1.4: Start OSU operation November 23, 1980

3.1.5: Complete patrol district/beat restructuring project in anticipation of January 18, 1981 implementation.

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3.1.6: Accomplish ICAP project closedown process.

3.2 Present Quarter Activities/Results: Provide the highlights of the report period's project activities and the results obtained. Activities should be presented in a brief termat, and <u>linked directly to the obtives listed above</u>. Significant activities which do not directly support a specific objective may be presented under the category of "Other". Detailed appendices may be attached as deemed necessary. To the extent possible, answers should be quantified.

3.2.1: Functional development of San Jose's Operations Support Unit was completed in anticipation of a November 23,1980 implementation date. An Automated Case Enrichment System (ACES) purchased with ICAP second grant funds has been enhanced with new disk drives, purchased with third grant funds. (See attached narrative final report for details.)

3.2.2: Pre-implementation testing of all OSU functions was accomplished by in-house and ICAP staff.

3.2.3: OSU staff selection and training was accomplsihed during this quarter.

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3.2.4: OSU operations began a phased implementation process on November 23, 1980. All burglary and receiving stolen property cases are being processed through the OSU using an expanded "Managing Criminal Investigations", unweighted solvability factor, approach.

3.2.5: A comprehensive patrol district/beat restructuring project was completed by a team of in-house and ICAP staff. A new proportional allocation of patrol resources was also accomplished by the team using the previously published San Jose Allocation Method.

3.2.6: Closedown procedures for ICAP projects were accomplished

NOTE: A detailed description of above activities is attached to this report.

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SCHROLLES		۱ I						· * .
schedules.	•						1	j.
See attached narrative report.							-	
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	•		4					
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	-							
	-							
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	-						ł	
Status of Implementation: Using the following code, indicate the level of success attained for each of the objectives listed: • "1" reflects an objective partially attained				- 1				
of success attained for each of the objectives listed:								
<pre>of success attained for each of the objectives listed: "1" reflects an objective partially attained "2" indicates an objective totally attained "0" indicates that the objective was not implemented Additional information may be provided in explanation of the assigned</pre>								
of success attained for each of the objectives listed: • "1" reflects an objective partially attained • "2" indicates an objective totally attained • "0" indicates that the objective was not implemented Additional information may be provided in explanation of the assigned rating.								
<pre>of success attained for each of the objectives listed: "1" reflects an objective partially attained "2" indicates an objective totally attained "0" indicates that the objective was not implemented Additional information may be provided in explanation of the assigned rating. 3.1.1 - 2</pre>								
<pre>of success attained for each of the objectives listed: "1" reflects an objective partially attained "2" indicates an objective totally attained "0" indicates that the objective was not implemented Additional information may be provided in explanation of the assigned rating. 3.1.1 - 2 3.1.2 - 2</pre>								
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<pre>of success attained for each of the objectives listed: "1" reflects an objective partially attained "2" indicates an objective totally attained "0" indicates that the objective was not implemented Additional information may be provided in explanation of the assigned rating. 3.1.1 - 2 3.1.2 - 2 3.1.3 - 2 3.1.4 - 2 3.1.5 - 2</pre>								
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<pre>of success attained for each of the objectives listed: "1" reflects an objective partially attained "2" indicates an objective totally attained "0" indicates that the objective was not implemented Additional information may be provided in explanation of the assigned rating. 3.1.1 - 2 3.1.2 - 2 3.1.3 - 2 3.1.4 - 2 3.1.5 - 2</pre>						÷	an a	
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<pre>of success attained for each of the objectives listed: "1" reflects an objective partially attained "2" indicates an objective totally attained "0" indicates that the objective was not implemented Additional information may be provided in explanation of the assigned rating. 3.1.1 - 2 3.1.2 - 2 3.1.3 - 2 3.1.4 - 2 3.1.5 - 2</pre>								
<pre>of success attained for each of the objectives listed: "1" reflects an objective partially attained "2" indicates an objective totally attained "0" indicates that the objective was not implemented Additional information may be provided in explanation of the assigned rating. 3.1.1 - 2 3.1.2 - 2 3.1.3 - 2 3.1.4 - 2 3.1.5 - 2</pre>								

FINAL REPORT

INTEGRATED CRIMINAL APPREHENSION PROGRAM

Grant #79-DF-AX-0077

San Jose, California

July 1, 1979 through December 31, 1980

This Project was supported by Grant Number 79-DF-AX-0077 awarded by the Law Enforcement Assistance Administration-United States Department of Justice. Points of view or opinions stated in this report are those of San Jose Police Department and do not necessarily represent the official position of the United States Department of Justice.

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Final Report for Grant 79-DF-AX-0077 Integrated Criminal Apprehension Program San Jose, California (Grant Period Covered - July 1, 1979 to December 31, 1980)

PREFACE

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A.

The grant on which this document reports is actually the second of two parts of a project. The first of these was the research which determined the need for and developed an Operations Support Model. This was accomplished under grant number 78-DF-AX-0036 (termed ICAP-I) which covered the period June 1, 1978 through June 30, 1979 (with an extension until February 15, 1980 for the express purpose of expending equipment funds). The final report for that grant indicated that it was, in reality, an interim report, since it represented only the first half of the project - the research and development phase - with the implementation to follow in the subsequent (present) grant. The present grant has been devoted to the implementation of the product of the previous grant. For the purposes of this report the present grant shall be referred to as ICAP-II.

This document constitutes the final report for the LEAA grant indicated above. It is organized in five sections: Section I, Background, provides information about the City of San Jose, the Police Department and some introductory data about the project; Section II, Grant Administration, describes various aspects of administration connected with the project; Section III, The Project, the main portion of the narrative, describes in some detail the history, progress and product of the project; Section IV, Conclusion, is devoted primarily to a brief assessment of the actual and expected benefits of the product produced by the project; and Section V, Appendices, contains the principal documentation associated with the project, that is related to Section III, The Project, above.

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ACKNOWLEDGEMENTS

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This report would not be in any sense complete without mentioning, in grateful appreciation, the assistance and support of many who, while not members of the ICAP staff, were in a very real sense members of the project. Without their contributions, it is doubtful that the ICAP staff would have realized many (or any) of the achievements of ICAP-II.

A comprehensive listing of all to whom thanks are due would involve listing a large part of the membership of the City Government of San Jose and significant numbers in other agencies. Obviously, and regrettably, it is not possible to do this, but our thanks to these people are not any less sincere, and we gratefully acknowledge our debt to each of them.

There are, however, some who made especially significant contributions and we would be remiss in not recognizing them here. The Mayor, City Council and City Manager of San Jose have been facilitative and supportive throughout. Without this help, nothing could have been done. JoAnn Foreman, Grant Coordinator, performed a myriad of administrative tasks which facilitated the operation of the project, often on short notice, but always willingly. This, together with the frequent advice and constructive criticism, allowing us to share her experience in grant administration, was invaluable. The Director of Finance and his staff maintained the financial records and submitted the required financial reports, as well as providing much useful information and advice on the financial aspect of the grant, so that many problems were avoided. The Director and staff of the City Information Systems Division provided indispensable technical assistance, especially in the process of acquiring the computer equipment. We especially appreciate the fine work performed by Betty Burnham and Carole Bruch, Programmer-Analysts in that Department,

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in helping to solve many difficult problems in selecting, purchasing, and programming the equipment. We must also express our thanks to the staff of the Purchasing Division, who worked with the ICAP staff on the purchase of the EDP equipment. To all these members of the City Administration, and to our elected officials, our thanks are due and hereby qiven.

basis throughout its duration.

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Within the Police Department there are so many who helped that it is really proper to thank the Department as a whole. We particularly appreciate the strong support and helpful guidance of the Chief of Police and his staff. The Research and Development Division, commanded by Lt. Bill Gergurich, and later Lt. Mike Maehler, were so much involved in the project that they often came close to being ICAP staff in function. Lt. Gergurich, and his predecessor Lt. Glenn Kaminsky, also made invaluable contributions as commanders of the newly organized Operations Support Unit. Especially to Elba Lu, Crime Analyst, do we owe a debt of gratitude for her work in cooperation with, and in support of, the project on a daily

The Data Processing Department and the Center for Urban Analysis, both of Santa Clara County provided services in their areas which were indispensable. Our local evaluation consultant firm, Hughes-Heiss and Associates, through their interest in our work, provided much in the way of valuable advice and guidance which was instrumental in smoothing out the development of the model and which has been of great assistance in implementation. To Joe Sharp, of Search Group, Inc., we express our appreciation for the expert advice and expeditious action both of which greatly helped our efforts to acquire the EDP equipment.

Last, but emphatically not least, the many and varied contributions

made by David O'Connor, Western States Manager, ICAP in LEAA, Washington, D.C., must be mentioned. The San Jose ICAP Project was indeed fortunate to have so willing, knowledgeable, helpful and supportive a person as he to call upon, as we did often. He can justly claim a large share in any success the project has had.

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I. BACKGROUND The City San Jose is a city of approximately 610,000 residents, situated at the southern end of San Francisco Bay. Like other local governments in California, San Jose is attempting to cope with severe budgetary restrictions as a result of Proposition 13, a voter initiative passed in June 1978, which drastically reduced property tax revenues. This situation demands that the City do everything possible to utilize its present resources to the fullest in order to maintain at least current levels of service. The ICAP Project represents a part of that effort.

The Police Department

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The San Jose Police Department operates from a central location in the Civic Center area near downtown San Jose, except for several small specialized units which are quartered in other facilities. The Department has a sworn strength of 850 which is augmented by 260 non-sworn employees. This represents a ratio of approximately 1.4 sworn officers per 1000 citizens, one of the lowest officer to citizen ratios for a city of this size in the nation. Over the past 20 years, San Jose has experienced considerable growth. During the last several years this has been greatly accelerated and a high rate of growth is anticipated for some time to come. This phenomenon, considered in the light of the budgetary restrictions discussed above has created a problem for the Department, since it can be expected that only limited increases in strength will be possible under the circumstances, at least for the foreseeable future. In order to maintain the level of service the City Council and the Department desires - and the citizens demand - it is necessary to find ways to better employ the resources

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which are available. That need has been addressed by the ICAP Project in the development of a model which is making substantial contributions in the area of efficiency when operated as the Operations Support Unit.

The Project

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The project is engaged in the conceptualization, development and implementation of an operational entity which will improve the handling of various types of crime and incident reports such that greater efficiency is realized in both the paper flow and operational areas. The work is divided into two segments: 1) conceptualization and development, and 2) implementation. The first of these two segments was accomplished during ICAP-I. The second (implementation) constitutes the work of ICAP-II. The Operations Support Unit, as this entity is known, is a response to the need for better employment of existing resources described above.

Organizationally, the project has been placed in the Office of the Chief, with the Assistant Chief of Police as Project Director. The Project Manager is a Police Sergeant, who is responsible for the day to day operation of the project. The Project Manager is supported by a staff described under Grant Administration. In addition to the ICAP Staff itself, the project has been closely associated with the Department's Research and Development Division which has facilitated a mutually beneficial continuous exchange of information.

Since what is now the ICAP Project (ICAP-II) had formerly been the Patrol Emphasis Program, and then ICAP-I, there was no period of gaining "acceptance" either in the Department, or in the rest of the City Government. Consequently, the project has, from the beginning of ICAP-II, enjoyed the support not only of various entities in the Police Department, but of the City Government, as well.

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II. GRANT ADMINISTRATION as follows:

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Application and Adjustments

Following submission of a Grant Manager's Project Summary and a formal application for assistance, the Grant Award in the amount of \$333,333 (including 10% City cash match) was approved on June 19, 1979 and indicated a grant period from July 1, 1979 to December 31, 1980. During the course of this grant, a total of four adjustments were applied for and approved by LEAA. The details of these adjustments are

Adjustment #1: Approved by LEAA on September 24, 1979. Reallocates funds between categories to increase Personal Services, Travel, Supplies, and Indirect Cost.

Adjustment #1a: This adjustment was erroneously numbered #1 by LEAA, hence is listed as la. here. Approved by LEAA on November 13, 1979. Retires the Special Condition in the Grant Award which required submission and approval of a current EEO plan within 120 days of award. Adjustment #2: Approved by LEAA on March 24, 1980. Grants approval for sole source contracting with Hughes-Heiss and Associates for local evaluation.

Adjustment #3: Approved by LEAA on June 24, 1980 Reallocates funds between categories to provide \$40,500 for purchase of computer equipment to expand the DEC PDP 11/34 system purchased under ICAP-I.

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Staffing

The staffing at the beginning of this grant consisted of twelve positions funded by LEAA:

1 - Police Sergeant (Grant Manager)

1 - Statistical Analyst

2 - Staff Analyst II

1 - Analyst I

2 - Typist-Clerk II (1 vacant - to be eliminated)

5 - Staff Aides (Part-Time)

During the course of the grant the following personnel changes occurred:

July 9, 1979 - A Staff Analyst II was hired to replace the lead analyst who resigned in June, 1979.

August 19, 1979 - The Project Manager, a Police Sergeant, was removed from grant funding and placed on City General Funds. No change of function or personnel occurred as a result of this action.

September 24, 1979 - One Typist-Clerk II position deleted per Grant Adjustment Notice approving budget adjustment.

October 19, 1979 - The Analyst I resigned from the grant. This position was not filled again.

October 31, 1979 - Deletion of Analyst I position and addition of two Staff Aide positions authorized by the City. Phone authorization from LEAA (David O'Connor) obtained the same date. Followup letter of authorization obtained from LEAA on January 22, 1980.

January 20, 1980 - One Staff Aide hired.

January 23, 1980 - One Staff Aide hired.

February 22, 1980 - The Statistical Analyst resigned from the grant. This position will not be replaced. Functions will be absorbed by SJPD Research and Development Division.

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May 2, 1980 - One Staff Aide resigned from the grant. The position was not filled again. June 8, 1980 - One Staff Aide reclassified to new category of Staff Technician. (See explanation below) September 5, 1980 - One Staff Aide resigned from the grant. November 13, 1980 - Staff Aide position filled. November 24, 1980 - One Staff Analyst II transferred from ICAP to Operations Support Unit. In addition to the "regular" staff shown above, there is one other position which requires mention. The project operates as a unit in the Office of the Chief of Police, with the Assistant Chief designated as Project Director. In addition to providing policy direction, the assistance of the Project Director in liaison with the City Manager, the City Council, and, on occasion, outside agencies has been invaluable to the project. Further, the placement of the project at this level and the appointment of the Assistant Chief as Project Director has clearly demonstrated to subordinate managers and staff the commitment of top management to the project, which augmented greatly the credibility of the project within the Department. Problems in staffing during the period of this grant were external in origin. Passage of Proposition 13, and the anticipation of Proposition 9, a ballot measure which would further reduce City revenue, would pass, resulted in the City Government instituting a "hiring freeze." This action made it difficult to obtain approval to change the position structure of the project as changing needs dictated. In the case of a vacancy in an already established position, it was possible to fill the position, however the hiring process involved delays, sometimes of considerable length. These delays had a negative effect on the functioning of the grant. Had this

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development not occurred, the work of the grant would undoubtedly have been able to progress more smoothly and expeditiously. This situation was alleviated somewhat in June, 1980 when Proposition 9 failed, and the hiring freeze was relaxed in some degree.

During the period of the grant, the City of San Jose contracted with a consultant to conduct an in-depth study of the non-sworn, non-managerial personnel structure. One of the results of this study was the establishment of a new class of employee called Staff Technician. This class provides paraprofessional help (full or part time) to analytical personnel, and is of more highly technical nature than the category of Staff Aide. As a result of this study, one of the Staff Aides employed in the grant was found to qualify as a Staff Technician, and the position was reclassified accordingly.

ICAP Staff funded by LEAA at the end of the grant period (December 31, 1980) was as follows:

1 - Staff Analyst II

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1 - Typist Clerk II

1 - Staff Technician

5 - Staff Aides (Part-time)

At the termination of the grant, all Staff Aides and the Staff Technician were transferred to City General Funding, and remained in the Police Department performing the same duties as during the grant period. All other personnel who chose to remain in City service were transferred to positions commensurate with their qualifications. These positions were with other City departments. One Staff Analyst II had already been transferred from ICAP to the Operations Support Unit, as noted above.

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Property In the area of equipment, no funds were budgeted for this purpose in the original grant award. All necessary office furniture and equipment had been acquired during the Patrol Emphasis Program grant period, and it was not necessary to purchase additional items of this kind for the ICAP Project. During ICAP-I, the grant purchased a Digital Equipment Corporation PDP 11-34 computer system. The primary use to which this equipment has been put is the housing of the Automated Case Enrichment System (ACES), the first file of which was an automated Field Interview Report file. This system also has the capability of performing some basic word processing (actually text editing) functions. In addition, several other applications are being considered for the system. It was recognized at the time the system was acquired that some future expansion would be needed. During ICAP-II, an assessment was made of the capabilities of the system with its present configuration (CPU, two 5 megabyte disk drives, one printer and two CRT terminals, one of which is a systems terminal and so restricted in its use). It was determined that several enhancements would be beneficial. While core memory (256 K Bytes) was sufficient for our needs, storage for data was sadly deficient, even considering the Field Interview File system alone. For this reason, it was decided to increase the storage capacity by adding two disk drives with a capacity for 60 to 100 megabytes each. This would provide for the needed storage, and give backup capability as well (vital in case of a head crash, etc.).

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It was noted that the original configuration included one printer and two CRT terminals. One of the CRT terminals is in the Records Division, together with the printer. The second CRT terminal is a systems terminal

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and is located next to the CPU in a room remote from both Records Division and Crime Analysis, the other prime user of the system. No terminal, hard copy or screen, was present in or near the Crime Analysis Unit (which is physically located approximately 450 feet from Records Division), making it very inconvenient to use the system. To correct this deficiency, it was decided that one additional CRT terminal and one additional printer should be acquired and located in the Crime Analysis area.

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These items were only the most pressing needs, and, together with the expansion chassis for the CPU (needed because there was no room available to install the controller for the disk drives) and the controller for the disk drives, represented a purchase estimated at approximately \$40,500. It was found that this amount could be made available from ICAP funds due to some underspends in other categories. Accordingly, a budget adjustment was prepared and submitted to LEAA, resulting in a Grant Adjustment Notice dated June 24, 1980 resulting in reallocation of funds among categories and authorizing \$40,500 for equipment (previously zero),

Having secured this authorization and having prepared specifications in the interim, a request for proposal was sent to seven firms which would be likely to be able to supply the equipment. Four of these responded. International Data Services, Inc. of Sunnyvale, California was selected as the successful vendor on the basis of being the lowest responsive bidder, and the necessary documentation was prepared (including a lease versus purchase analysis) for forwarding to LEAA, through Search Group, Inc., Sacramento, California, for approval. Purchasing Division, meanwhile, took the necessary steps to obtain City Council approval of the purchase.

Federal approval was given for the purchase October 30, 1980 and was received via Search Group, Inc. A purchase order was issued on November 6,

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and 24, 1980.

tant to accomplish this.

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1980 to International Data Services, who delivered the equipment on December 11, 1980 at the bid price of \$40,187.78 (including sales tax). This price did not include installation.

All the equipment being purchased was of Digital Equipment Corporation . (DEC) manufacture. In order for the equipment to be eligible for inclusion under a DEC maintenance agreement, it must be inspected and certified as eligible by a DEC maintenance representative. To facilitate this, a purchase order was issued for DEC to install, inspect and certify the equipment at a price of \$1500.00. This process was completed on December 23

The equipment purchase approval documentation will be found as Appendix A to this report.

It was mentioned earlier that the equipment purchased with grant funds, as described above, represented only the most pressing needs in this area. Also needed are additional items of hardware (beyond those discussed here) and software enhancements amounting to between 40 and 50 thousand dollars, which the City expects to provide as part of its ongoing commitment to this project.

Local Evaluation

City policy dictated that a formal evaluation was needed for ICAP-II. In addition, the members of the project itself felt that a neutral party assessment would be beneficial to aid in determining what, if any, changes were needed to improve the product of the ICAP Project, the Operations Support Unit. Therefore, the decision was made to contract with a consul-

As part of the contract for evaluating ICAP-I, Hughes-Heiss and Associates of San Mateo, California, developed an evaluation design for

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ICAP-II. Because of this, and because of their familiarity with the Project and the Department, gained during the evaluation of ICAP-I, together with the high quality of their work in ICAP-I, it was considered that the Project, the Department, the City and LEAA would all be best served if the services of the same firm could be obtained to evaluate ICAP-II. The advantages appeared to be several: 1) the expense of the RFP process would not be necessary; 2) the process of familiarizing the consultant with the Project and the Department would be eliminated; 3) this firm would be following a research design which they developed, saving the time and expense of developing a design as part of this contract; 4) the total fee would be substantially lower than it would be with a new consultant. Preliminary inquiry of Hughes-Heiss indicated that the foregoing was, indeed, the case, and they indicated a total fee of \$12,100 would be acceptable. This is a figure substantially lower than could reasonably be expected with another firm performing an evaluation as detailed as that called for in the research design mentioned above.

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This information was communicated to LEAA in Washington, accompanied by a request for authorization for sole source contracting with Hughes-Heiss and Associates. This request was approved by LEAA in Grant Adjustment Notice #2, March 24, 1980. A contract was concluded between the City and Hughes-Heiss on May 23, 1980, under the terms on which that firm was to evaluate the Project and its product, the Operations Support Unit, according to the evaluation design developed under the contract for evaluation of ICAP-I. The contract price for these services was \$12,100, the amount previously quoted.

The report of this evaluation is found as Appendix H.

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The San Jose ICAP Project fully recognized its responsibility to cooperate in the National Evaluation Program. This responsibility was fulfilled through two media: local evaluations performed by independent outside consultants on the San Jose ICAP Project, and submission of quarterly progress reports containing detailed information regarding the activities and progress of this project. Prior to September, 1978, these reports were submitted in a form which was primarily narrative in format, consistent with direction received from LEAA. For the period beginning September 1978 until the present, a more structured reporting format developed by LEAA has been used. In this connection, it should be noted that, in order to respond as fully as possible to the data needs of LEAA, a number of changes were found to be needed with regard to information not routinely collected by the Department. Since some of this information is derived from automated systems, it was necessary to write a number of new programs to access the data base and retrieve the information in the form required. Other items are not under the control of the Department, but had to be obtained from agencies not part of the City government. These items also required new reports to be produced by automated systems, and, hence, new programming - in some cases, extensive in scope. This effort was undertaken by request to the agencies involved, at Department expense. Efforts have been ongoing to develop as comprehensive and refined data as possible. This new data was included in the quarterly reports as it became available. Exchange of information with other law enforcement agencies has long been a policy of the San Jose Police Department. During the period of ICAP-II, and of ICAP-I and the Patrol Emphasis Program which preceded it,

National Evaluation and Coordination with Other Projects

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a significant increase in requests for information has occurred, compared to past experience. We attribute this to our greater use of relatively sophisticated automated systems than is the case in many other agencies, and to the fact that awareness of these systems by other agencies has increased through the medium of the ICAP Program. It is interesting to note that this awareness is not confined to ICAP agencies, suggesting that, in many areas, information is being disseminated by ICAP agencies to agencies not participating in the ICAP Program. This is evidenced by the fact that San Jose receives requests from both ICAP and non-ICAP departments. Most inquiries are received by mail or phone. The volume reached a point which made it necessary to develop information packets on the Crime Analysis Unit and the Patrol Allocation Plan, the activities most frequently asked about. Other areas in which interest has been frequently shown include our computer aided dispatch system (in San Jose it is called CAPSS - Computer Aided Public Safety System) and various other automated systems used by the Department. Every effort is made to respond to each request promptly and as fully as possible, whether or not the requesting agency is ICAP affiliated.

In addition to dissemination of information by phone or mail, a number of requests were responded to by personal contact, either by hosting a visit by representatives of other departments or by San Jose ICAP staff visiting agencies to render assistance which required more than could be provided by phone or mail. San Jose was also represented at most scheduled ICAP Cluster Meetings during the period of ICAP-II. These meetings provided a valuable opportunity for the exchange of information between participating agencies, in addition to the formal presentations on the agenda.

were as follows: Jose ICAP Project. Administrative Problems

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Special activities, other than attendance at cluster meetings, undertaken for purposes of National Evaluation or information exchange

July 30-31, 1979 - Hosted visit by David O'Connor, LEAA/ICAP Western States Program Manager. The visit was made to render assistance in problem areas and to assess project progress.

September 26, 1979 - Dennis Moore, University City Science Center (LEAA Contractor) visited to gather data and render technical assistance in the area of quarterly reporting.

November 29, 1979 - Hosted a visit by five members of the Jackson, Mississippi ICAP Project. The purpose of the visit was for technical assistance in the area of Operations Analysis/Resource Allocation.

December 10-12, 1979 - An Operational Audit was conducted by Mike Lamson of the Sacramento office of LEAA.

March 19-20, 1980 - Three members of the Jacksonville, Florida ICAP Project visited to obtain technical assistance in several areas.

July 28-29, 1980 - Four members of San Diego Police Department visited for TA on Patrol Allocation, Deployment, Decentralization and CAD.

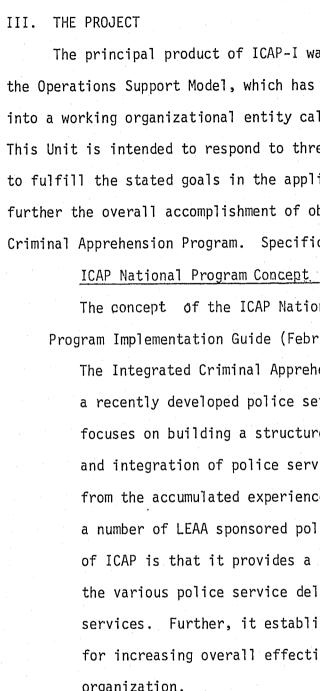
August 18-19, 1980 - S.J.P.D. Crime Analyst attended a meeting of CASS Advisory Committee at Simi Valley, California, to evaluate software developed for CASS and in use at that location. This participation was funded by San

November 20, 1980 - Four members of Memphis, Tennessee Police Department visited to learn about Mobile Computer Terminals in use here.

Under "Staffing," the problem of delays in hiring staff due to the hiring freeze instituted by the City as a result of the passage of Proposition

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13 is discussed. Since this problem has already been dealt with under the appropriate heading, it is not necessary to discuss it further here. Suffice it to say that, while some amount of delay and consumption of staff time was occasioned by this, it did not result in loss of time such that the final product was adversely affected. The implementation segment of the project progressed as planned.



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The Operations Support Model developed and implemented as the Operations Support Unit by the ICAP staff of the San Jose Police Department addresses the elements of this strategy directly by providing for a structured approach to providing support services to management, patrol services and investigative services. It utilizes experience and insights gained in a previous LEAA

The principal product of ICAP-I was a conceptual design known as the Operations Support Model, which has been, during ICAP-II, translated into a working organizational entity called the Operations Support Unit. This Unit is intended to respond to three basic needs of the Department, to fulfill the stated goals in the application for LEAA funding, and to further the overall accomplishment of objectives of LEAA's Integrated Criminal Apprehension Program. Specifically, these are as follows:

The concept of the ICAP National Program found on page 1-1, ICAP Program Implementation Guide (February 1978) is stated as follows: The Integrated Criminal Apprehension Program (ICAP) represents a recently developed police service delivery concept that focuses on building a structured approach to the management and integration of police services. The program has emanated from the accumulated experience and literature developed through a number of LEAA sponsored police programs. The unique feature of ICAP is that it provides a framework for the integration of the various police service delivery functions and support services. Further, it establishes a solid developmental base for increasing overall effectiveness and efficiency of a police organization.

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grant (Patrol Emphasis Program), and builds upon these. The model makes extensive use of integration of various services now performed in the area of support, but presently independent of each other. Enhanced efficiency . and effectiveness has been, and is, a prime goal in the development of the concept. The precise manner in which these objectives were attained will be more clearly seen below, as the model is described in more detail. It is appropriate (and necessary) to refer back to ICAP-I activities since ICAP-I and II were two grants which funded two segments of a single ongoing effort to develop and implement the concept described. It is therefore difficult to speak of ICAP-II without reference to previous work under ICAP-I (and to some extent, the Patrol Emphasis Program (PEP)).

It should be mentioned here that another ICAP objective, that of technology transfer, has also been kept in mind during the development of the Operations Support Model. The model (and unit) provides a basis which other agencies, with suitable adaptation, will find useful in seeking to solve similar problems.

Goals Stated in Application

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The overall goal as stated in the application for LEAA funding in ICAP-I is:

To increase the productivity of police manpower and strengthen management and supervision's decision making processes that allocate such manpower in order to effectively and directly

affect the potential victim, offender and opportunity for crime.

This broad goal was further defined by stating three sub-goals, each of which included three objectives. The sub-goals were related to program areas (labeled Program Area I, II and III, for convenience). They were stated as follows:

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Goal: To improve the capability of patrol forces to impact the occurrences of crime and meet the demands for other police services. Objective A - To improve Field Deployment and Strategies and Tactics.

Objective B - To increase the amount of Police Officer effectiveness in Patrol Operations.

Program Area II, Apprehension Techniques and Effectiveness. Goal: To improve the capacity and effectiveness of patrol and investigative resources for apprehension of offenders. Objective A - To increase the level and quality of investigative resources available for apprehension activities. Objective B - To improve the procedures for preliminary

investigative and case assignment. Objective C - To improve tactical deployment of special

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Objective A - To create a functional unity among Information Objective B - To systematically provide the information and

Goal: To strengthen management and supervision's capability in improving and maintaining a high level of police officer productivity. Analysis, Crime Prevention and Apprehension Operations. training needed by management to make decisions in allocating personnel and deployment of manpower.

Program Area I, Patrol Methodology and Rationale.

Objective C - To minimize response time.

units assigned to apprehension operations.

Program Area III, Supervision and Management Resources.

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Objective C - To improve the relationships with external agencies that affect police productivity.

These goals, originally stated in ICAP-I, continued to be the goals of ICAP-II. Indeed, the fact that ICAP-II was a continuation of ICAP-I would make this necessarily so.

Needs of the Department

The three basic needs of the Department are essentially simplified restatements, in practical terms, of the foregoing. The Department has a need to provide better information to management and supervisory personnel to assist in decisionmaking as relates to utilization of available resources. There is a need for better information for field officers, to enhance their effectiveness in daily operations. A third need relates to investigative personnel - specifically to enhance their ability to solve cases. This third need is addressed in two ways: 1) by reducing the paperwork with which investigators now cope, thus providing more time for field investigative work, and 2) by providing investigators with more and better information with which to work.

Through the Patrol Emphasis Program in San Jose, some of the goals and objectives of Program Area I were addressed. The ICAP Project utilized and built upon the work of PEP, and so many areas which have already been greatly improved, will be enhanced still further through the implementation of the Operations Support Model.

The specific objectives for the final phase of the project were stated in the application for ICAP-II funding as follows:

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Results Sought

(a) Objectives. The major objective of ICAP-II will be the successful implementation of the Operations Support Model in the Department. That accomplishment will represent the achievement of the goals and objectives of the Operations Support Model--to provide and promote:

Consistency in information gathering, quality control, storage, accession, and dissemination in the Department.

Optimization of the utilization of line personnel in both the patrol and investigative functions.

Needed information for management and line personnel to enhance the police service delivery capability.

Timeliness in identifying crime patterns and suspect/offense correlations and advising management and line personnel of those conditions.

Responsibility being fixed at all levels for the most effective and efficient completion of assigned tasks.

Operations/Crime Analysis information for informed management judgment and improved line operations.

Liaison within the Department and with the public being improved and strengthened.

(b) 1. Performance Goals. The following have been identified as critical measures of progress achieved in terms of implementing ICAP-II -Operations Support Model (0.S.M.):

> Achieve basic operational status for the Operations Support Model not later than September 1979.

> Complete and submit study of re-configuring beat structures by January 1980.

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Complete conceptual design of Operations Managers' Information System by September 1980.

Initiate ICAP-II Phase-out plan by July 1980.

2. Impact Goal. The ultimate goal of ICAP-II - O.S.M. to conceptualize and operationalize an organizational entity that will manage the flow of information throughout the Department, perform and promptly report the results of analyses of data on operations and crimes to the end that the administration is capable of providing the highest level of professional police service to the community in the most effective and efficient manner possible. In this State at this time, police chief executives are faced with severely constrained budgets. Yet, crime has not appreciably abated and the demand for police services has increased. Such conditions impose upon police executives the necessity for defining and achieving comparable goals. The efforts undertaken in San Jose may serve as a model for replication elsewhere.

The Research (Operations Support Model)

Historically, the Operations Support Model began with a Reorganization Task Force in the San Jose Police Department, which began work in August 1977. A component of its overall study was the consideration of a centralized operations support function. At that time, this function was not precisely defined. The PEP Project participated in the work of the Reorganization Task Force, which was composed of experienced and knowledgeable representatives of the various operating and administrative units of the Department. The final report of the Task Force was published in June 1978, the month which also marked the beginning of ICAP-I. In the report, attention was given to some aspects of what has become the Operations Support Model, but none of these was treated in depth, nor were the elements brought together to

the model. same month.

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comprise a single functional entity. It became the task of ICAP to perform the extensive research needed and to develop and implement the concept of

Prior to and during ICAP's participation in the Reorganization Task Force, the PEP/ICAP staff engaged in a number of other activities, each of which was ultimately to contribute to the development of the model. As early as October 1976, the PEP staff provided support in the system development of the Records Index System II (RIS II, an automated records index system housed on Santa Clara's computer system), and the Computer Assisted Public Safety System (CAPSS, a computer aided dispatch system). An analysis of the management of the Juvenile Division was done, beginning in April 1977, and in July of the same year an analysis of sex offenses was performed. An in-depth study of the Court Liaison function was also initiated in that

As a result of the participation in the Reorganization Task Force and the other activities cited above, by June 1978, when the ICAP-I grant period began, a great deal of data on current resource management and deployment had been gathered and analyzed. Two conclusions were formulated based on the analysis. First, the data indicated that many of the problems hampering the operating areas investigated were traceable to the flow of records and information. A number of problems which appeared initially to be internal to the operating units studied actually turned out to be problems external to the units and not solvable except to the extent that the records and information flow could be altered. Secondly, data indicated that the records and information flow in the Department was excessively complicated and inefficient. This condition had adverse affects on most, if not all, areas in the Department. The evidence also indicated that it would not be productive, and might even be counter-productive, to attempt to superimpose

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a new entity on the existing records and information flow. The most likely result of so doing would be that of adding to the complexity, thereby increasing, rather than alleviating, the problem. The alternativewas a complete restructuring of the records and information flow, and it was this course that ICAP undertook to follow.

To accomplish the task of restructuring, it was necessary for project personnel first to have an intimate knowledge of the existing system, since only with this knowledge could the system be effectively altered. Simply scrapping the present system <u>en toto</u> and beginning anew was not considered a viable approach. Were such a method to be advocated by ICAP, it was felt that the ICAP Project would suffer a great loss of confidence – confidence which it enjoyed at the outset of ICAP-1 as a result of the accomplishments of PEP, its predecessor. This meant, then, that the entire system of report generation, document flow and information flow would have to be studied in great detail followed by sound recommendations for step by step changes in procedures and work flow.

As a result of this decision, the initial four months of ICAP-I (i.e.,June through September 1978), were devoted to two principal activities, carried on concurrently; 1) a period of intense gathering of highly detailed data needed for flowcharting the entire report generation and document flow processes; 2) a series of on-site visits, meetings, analyses, and comparisons. By the latter part of September, extensive data had been gathered, analyzed and compared, rechecked, further analyzed and compared again until all the data was consistent. Concurrent with this data gathering process, a search of the literature was done to determine whether the concept of an Operations Support Model had been explored in some other agency. It was found that, while various features of the Model had been been tried previously.

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implemented elsewhere, there was no evidence that the total concept had been tried previously.

Next, it was necessary to present this data in a readily useable form. The next three months were consequently devoted to flowcharting the entire system. Despite the amount of data already collected, the complex nature of the system made it necessary to make still further inquiries and observations during flowcharting as the process disclosed real or apparent errors. In December 1978, the flowcharting was essentially complete, although some minor changes were needed in the months following. The resulting flowcharts will be found in Appendix B.

The second principal activity that was carried on during this period, concurrent with the data gathering and flowcharting, was that of model development. During the data gathering phase, a preliminary concept of the nature of the Operations Support Model was formed as a result of discussion and comparison of ideas presented by various members of the ICAP Project and some input from sources external to the Project. It was essential throughout the activities of the project, and especially crucial in model development, to encourage the free flow of ideas not only among members of the Project itself, but among Project members and all interested parties. Since the Project had a high level of acceptance, many valuable ideas were contributed from resident staff in the Department. As the data gathering and flowcharting progressed, the conceptual model was refined so that when flowcharting was completed (December, 1978) a fairly sophisticated model had been developed.

It was now possible to represent the model schematically from a structural and a functional standpoint. It was also possible, with the aid of the flowcharts developed for the existing system, to flowchart the

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Operations Support Model. The months January through June, 1979, were largely devoted to these activities, to preparing material descriptive of the proposed functions and staffing, etc. of the Model, and to develop-. ing a plan for implementation.

Selected schematics of the model which show the major steps in development are to be found in Appendix C. The last two of the series (Appendices C-6 and C-7) show the final version, the first being a structural presentation, and the second a functional one. The flowchart of the Operations Support Model corresponding to the schematic diagrams will be found in Appendix D. Funding and other impediments made it necessary to alter, somewhat, the O.S.M. in implementation. A flowchart of the Model as implemented will be found in Appendix E. A comparison of the flowchart of the Model with that of the original system (Appendix B) will convey a sense of the dramatic change the Model achieves. This same comparison, when it is recalled that the changes were made incrementally on the basis of study of each individual function rather than simply scrapping the old and devising the new system, will provide graphic indication of the magnitude of the problem, and, hence, the task, of the Project staff during the ICAP-I grant period.

Implementation

The ICAP-II Project was committed to two major efforts; 1) the successful establishment of an Operations Support Unit in the San Jose Police Department; 2) completion of an analytical program to re-configure the patrol "beats." The narrative in this section is intended to document the most important aspect of ICAP-II; how the Operations Support Model, was implemented and operates.

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At the beginning of ICAP-II, a model which promised a successful solution to the problem of information flow was available, having been developed in ICAP-I. It was now necessary to implement the Model as a unit. To do this required additional research beyond that which was completed in the development of the model. The developmental research focused on the flow of documents within the Department, but took little notice of how many documents were involved, nor were time factors critical in the earlier research. Implementation would require considerable, detailed information along these lines. Consequently, beginning in July, 1979, a series of studies, collectively termed Report Processing Studies, were done which measured numbers of documents generated at various times, workload at different times of day and days of the week, and provided detailed information on processing procedures, including time-motion studies. Every effort was made to insure that the studies represented typical periods of time so that they would form a good historical base for determining what the staffing levels should be in the Operations

Support Unit. They would also point to specific skills that would be needed. The Report Processing Studies were the major effort of the Project through the month of September. The results of these studies may be found as Appendix F to this report.

On July 1, 1979, a Police Lieutenant was appointed Commander of the Operations Support Unit. Following a brief period of familization, he embarked on a series of meetings with representatives of Patrol, Records Division, and Investigations. The purpose of these meetings was twofold: 1) to orient those who would be primarily impacted by the institution of the Operations Support Unit, and 2) to solicit input from these persons as to how best to accomplish the change from one system to another with

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the least amount of upheaval in day to day operations. The orientations were necessary since, though command staff and management were somewhat familiar with the concept of the OSU (and even they, it turned out, were not as familiar as they needed to be), subordinate levels in all three areas were guite unfamiliar with the proposed change, with the exception, of course, of those particular individuals who had worked with the ICAP staff in the research done during ICAP-I. Cooperative effort would be needed on the part of a wide spectrum of people at all levels, as implementation proceeded, and so it was vital that these people have a clear understanding of just what it was they were being asked to cooperate in doing. How important and useful these orientations were was evident time and time again as implementation of the OSU proceeded. The second aspect of these meetings - solicitation of ideas - was also important. It will be recalled that, during the development of the model upon which the Operations Support Unit is based, ideas were solicited from various people outside ICAP, with beneficial results. Because the new unit would impact a broad spectrum of people and activities throughout the Department, input by these people would be beneficial in two ways. First, greater insight was gained not only concerning the positive impact, but the negative as well. Although the negative impact was found to be minimal, it seemed important to attempt to neutralize any negative effect (real or perceived) to the maximum feasible extent. Feedback, both positive and negative, was received at each stage of implementation, and many of the suggestions were incorporated into the changeover. The second benefit was the realization of a low level of resistance to the change in procedures. Change of any kind can be perceived as threatening to many. This perceived threat, combined with inertia which affects many others, has often proven a formidable barrier

to organizational change. By making those affected participants in the change, the size and nature of this barrier can often be reduced to minimum levels. Such was the case here. Instead of resistance to change, which might well have been encountered, positive participation became the prevail-ing pattern - a condition which greatly facilitated the implementation of the Operations Support Unit.

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Although, at this point, the functions of the Operations Support Unit had been determined, its physical location had not, except that it would be part of, and occupy space, in the Records Division. A series of planning sessions took place, involving ICAP staff, Records staff and the OSU commander to resolve this question. A floor plan of the existing space utilization was prepared. The opening of the new wing of the Police Administration Building resulted in the movement of activities adjacent to Records Division. This, in turn, permitted Records Division to expand its physical area, and therefore, to provide space for the new Operations Support Unit. Two alternative floor plans were devised which incorporated OSU into the Records Division. These two plans were considered as working documents, and not necessarily as final determinations of the physical location of any entity. As initially implemented, the OSU looks similar to Alternative I with all systems terminals located in the area labeled "Enrichment." As with any organization, it is realized that, over time, the physical arrangement will probably change for any number of reasons. Suffice it to say that the Unit was successfully integrated into the Records Division. The floor plans noted above are found as Appendix F-58 & 59. In implementing the OSU, at least two alternatives were possible in methodology. The first of these would be to simply install the new unit, give it full scope responsibility from the start, with relation to all

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crime types, and "debug" the system as problems arose. The experience of others, both in San Jose and elsewhere, when instituting broad organizational change, led to the conclusion that this approach would be the more disruptive and, should the system require adjustment (as we expect it will, inevitably), adjustment would be more difficult to accomplish because of the volume and variety of the cases handled. The second alternative, therefore, was selected by management as the more desireable. This method involved the selection of one crime type which would be handled by the new OSU while . other crime types continued to be handled as before, being added to the responsibility of OSU incrementally as it proved itself able to absorb the additional load and was able to acquire the increased staff to make handling of other crime types feasible. (It should be noted that this phased implementation applies only to the Case Control Section. Crime Analysis and Information Coordination were both in existence prior to the development of the OSU, and were handling all crime types, and they continue to do so as part of OSU.)

The crime type selected for initial implementation of OSU was burglary. Two reasons can be cited for this choice. First, there is sufficient volume ($^{-1}2,000$ per year) to provide a good test of OSU function, while at the same time providing needed assistance to the Burglary Investigation Unit. Second, a high proportion of burglaries have little prospect of solution in that solvability factors are low or virtually nonexistent. That means that a significant number of these cases are "early closed" (see the description of functions, below), and are not assigned to the Burglary Investigation Unit, thereby freeing investigators from a heavy unnecessary paper burden which they bore prior to implementation of OSU. As indicated earlier, other crime types will be added to the OSU operation

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as the unit indicates its ability to handle them and as personnel resources become available. At the heart of the functioning of the OSU is the information contained in the report submitted by the officer who performs the preliminary investigation. Since this is so, the ability of the patrol officers to properly conduct a preliminary investigation assumes great importance. With this in mind, surveys were done to determine the level of this ability. One survey involved the patrol officers themselves while another surveyed detectives to gain their impressions based on the crime reports and other material submitted to them as a result of preliminary investigations. The results of the two approaches were surprisingly similar, and served to point up both strengths and weaknesses in this vital area. Based on these studies, training programs were developed to maintain the strengths and correct the weaknesses found. This training will be continuous in order to continue to improve the quality of preliminary investigations. Several other important pieces of research were necessary before the OSU could be made a functioning unit. Screening methods and solvability factors had to be developed. A number of alternatives for each of these was possible. ICAP staff worked together with Bureau of Investigations staff as well as members of the Records Division to develop a system for case screening that was both efficient and agreeable to all concerned. Solvability factors for use in determination of cases to "early close" were devised, also by conference. Nationwide literature was researched. An unweighted screening approach was selected. The need to achieve a consensus on these areas made this a rather time consuming process involving many revisions before agreement was eventually reached. It is anticipated that experience, over time, may well result in further alteration.

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The new procedures made it necessary to take a close look at the forms which were being used to determine whether changes in them would be necessary or helpful in implementing and operating the OSU. Particular. concern was given the fact that greater use of automated systems than had previously been the case might necessitate changes in format of report forms of various types to achieve both consistency of data and ease of entry into the computer systems. It was found that several forms needed revision. There were also needs for forms which had not been used before, and so had to be designed from scratch. These revisions and designs were undertaken with several purposes in mind. The forms had to be functional with relation to the internal operation of the Operations Support Unit. They needed also to provide for the submission of information as complete as possible while, at the same time, providing the patrol officer (in the case of report forms) with a form which was easy and relatively quick to complete, both to encourage completeness and to reduce, as far as possible, the paperwork load on the patrol officer. With these criteria, it is obvious that this was no easy task. In the development of the forms, a considerable amount of time was expended in obtaining suggestions from members of the Bureau of Field Operations (Patrol Division) and incorporating these comments into the new forms where they were not inconsistent with ` other goals. The end result accomplished, to a high degree, all the purposes, as can be seen by reviewing the forms, shown in Appendix G. One form deserves particular mention, since it represents a departure from past procedure on the part of all patrol officers. This it the "Information Bulletin for the Crime Victim." This form is found in Appendix G-3. The form, besides providing a fairly large amount of general information to the victim, also indicates the case number assigned to the occurrence, and

the status of the case. This means that the patrol officer now has the responsibility to perform a complete preliminary investigation and make a determination, based on the solvability factors discussed earlier, as to whether the case will be submitted for follow-up investigation or not. Of course, this initial decision can be changed by reviewing officers in OSU, when justified, or upon receipt of additional information which would change the "solvability" status of the case, but normally, the recommendation of the patrol officer performing the preliminary investigation acts as the primary guide in this respect. Staffing considerations loom large in the institution of any new entity, and they were certainly a major area of concern in implementing the Operations Support Unit. The problem arose in connection with the Document and Case Control Sections, since both the Crime Analysis and the Information Coordination functions were already operating entities in the Department, and were staffed. For Case Control, however, personnel would be needed from one source or another, since this was an entirely new entity. It is true that some of the functions had been performed by Records Division personnel, but most had not. Originally, it was planned to acquire the necessary clerical personnel from within the Records Division insofar as it was possible to do so, and rely on new hiring only to a minimum extent. Sworn personnel would be selected from among experienced officers and sergeants in the Department. These officers would be replaced gradually as new personnel were hired and graduated from the academy. During the last half of 1979 and the first part of 1980, the private sector in Santa Clara County experienced a period of expansion which resulted in many job opportunities and higher wage offers. Because of the severe financial constraints imposed by Proposition 13, the City was unable to prevent the loss of many of its employees, sworn and non-sworn. The resulting

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personnel shortage in the Department (and throughout the City government) made it unfeasible to divert the necessary personnel from their present assignments to staff the new OSU. The solution was found in the availability of State of California Office of Criminal Justice Planning Mini-Block Grant funds for Plan Year 1980. An application was prepared which requested funding to support one Police Sergeant, two Police Officers, and four Police Records Clerk II, together with certain non-personal expenses. This request was approved on June 18, 1980. In addition to the personnel supported by the Mini-Block Grant funds, the Department was able to make available one Police Lieutenant (OSU Commander), one Police Sergeant and Police Officer. This was enough to staff the OSU provided certain adjustments were made to the design.

As has been noted, the design of the Operations Support Model is quite flexible. This flexibility was now to prove valuable (as we believe it will if and when other agencies attempt to implement a unit on the same design). It was found that by consolidating the functions of the Document Control Section and the Case Control Section into one entity, the OSU could operate and carry out the functions called for in the design. The fact that management had already decided on a phased implementation with relation to crime type (beginning with burglary) meant that the initial volume would not be as great as it otherwise would have been. As implemented, then, the functions of Document and Case Control are handled by one section called Centralized Case Control. It is planned that, as the OSU proves itself, and other crime types are added to its area of responsibility, that additional personnel would be available for the increased workload entailed. A determination will be made at the appropriate time as to whether a consolidated Centralized Case Control Section is the best way to

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envisioned.

Centralized Case Control Section the same number.

continue, or whether it is better, because of volume, to return to the idea of separate Document Control and Case Control Sections, as originally

The Operations Support Unit, as implemented, consists of a Centralized Case Control Section, Crime Analysis Section (Operations Analysis now made a function of the Research and Development Div.) and Information Coordination Section. The functions of each section are briefly described below:

- Collects: All original crime reports, offense reports, citations, supplemental reports, property/evidence reports, etc. are being routed to the section. Each police response is given a computer-generated discrete identifier. Each document associated with the event is given

- Audits: A "log" is generated by the Computer Assisted Dispatch System (CAPSS) at 0400 hours daily containing all events to which a response was made. The log contains a "disposition code" indicating the closing status. The code will indicate if a report(s) had been made. The section uses the log to ensure that reports for each event have been received. Any discrepancies noted are immediately reported to the appropriate watch commander with a request that the document(s) be submitted without delay. The notification is documented and a copy routed to the unit in which the delinquency occurred. A "tickler" file is maintained in the control section.

- Collates: All the documents associated with each event are then assembled to form a preliminary case file.

- Prioritizes: The County "CJIC" System generates a report at 0600 hours daily of all bookings by agencies in Santa Clara County for the

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preceding twenty-four hours. The most current custody status is shown. The Section scans the report for San Jose arrests and for custody status shown as "held." The associated case file is located; a worksheet is affixed with the label of "priority case" being assigned (in this locality the Sheriff will release all arrestees after twentyfour hours from initial booking if no complaint has been filed). The "priority" notation alerts all personnel handling the document that processing needs to be expedited and it must be received by the appropriate court liaison officer as soon as possible. If a complaint received from the District Attorney is not filed prior to the arrestee's release, an arrest warrant must be obtained, the suspect located, re-arrested and booked. This process provides the medium for early identification of in-custody habitual offenders which are priority cases in the prosecutor's office.

- Distributes: When a case has completed processing within the Operations Support Unit, it is faced with a sheet indicating the units or agencies to receive copies. This section is responsible for reproducing the document, as required, and routing it as indicated.
- Reviews: A preliminary "sort" process is conducted at this step. Some report(s) forms (cases) by their nature are not intended for further investigation. Such items are identified and assigned low priority for further processing, but also flow through the "Assignment" element for verification of status of assignability. This unit is responsible for ensuring all critical elements of each document are completed. Inadequacies are handled in the same manner as in the "audit" function.
 Enriches: This section is furnished with computer consoles to access all local, regional, state, and national criminal justice, and allied

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(motor vehicles, drivers license, etc.) information systems. According to enrichment procedures established for each type of case and the preliminary evidence reflected in the report, an extensive data base search will be conducted. All results obtained will be attached to the case. (Development and operation of this component will be supported by experienced investigators and experienced Police Records Clerks who will bring their experience, intuition, and ingenuity to bear in directing the data base search process.) - Evaluates: This is one of the most critical functions in the entire model. It involves the evaluation of the merit of a case and determination as to whether further investigation is warranted. The criteria for the case evaluation process have been developed. At present, copies of cases "not to be assigned" are being routed to detectives for information only. If the investigative commander wishes to assign the case, justification for such action must be documented and severe time constraints established for the supplemental investigation. - Assigns: A formal case assignment procedure has been developed. This component will determine on the basis of the offense type, ages of suspect(s)/victim(s) the investigative unit(s) to handle the case solely or jointly. The unit(s) of assignment are entered on the case face sheet. - Systems Entry: In the review and enrichment processes critical case control (status-assignability) and crime analysis data elements are highlighted. The data elements so indicated are entered into the R.I.S. (Records Index System) and thus initiate the on-line status of the case (Assigned/Unassigned/Unit(s)) and crime analysis elements (crime type, location, time, victim, suspect(s), witnesses, etc.).

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A responsibility of this section is systems quality control. Supplemental reports received necessitate "calling-up" of the case on the screen face. Quality control personnel ensure all data elements recorded are correct and that any errors are corrected without delay.
Victim Liaison: In the event a case is determined not to merit investigative assignment, a brochure will have been provided the victim/reporting party of that decision by the officer conducting the preliminary investigation. The brochure also advises the recipient that in the event they become aware of additional, related information it is essential they telephone the Section at the number found in the brochure and report the matter. The Unit records the information on a supplemental report form, re-activates the case, and routes it to the case evaluation function for decision-making as to its assignability.

Crime Analysis Section

- Analysis: The Crime Analyst directs the activities of this section. In the area of crime analysis, ready access to the crime event data bases is available. Present production reports will be refined and expanded as justification and resources warrant. Copies of reports of selected target crimes (sexual and aggravated assault, robberies, burglaries, etc.) are routed to the section and scanned by support staff in the belief that reading only selected cases will promote the ability to make early identification of pattern, trends, etc. Such speculations will be tested by the crime analyst in programmed searches of data bases. The function will provide management, operations, and line personnel with timely crime data of high utility.

The Operations Analyst, although disassociated from OSU and now part of Research and Development, will impact OSU operations since he/

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out delay.

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she will continue research to re-evaluate the Patrol Allocation Plan, expand the concept to other field units, and with more reliable work-

load measures for the investigative branch being developed as a result of the functioning of the Operations Support Model, will initiate studies into investigative resource allocation models. A set of limited management reports are generated by that section. The Operations Analyst will assume lead responsibilities for the conceptualization of an Operations Managers' Information System. These products will dovetail with those of the Crime Analyst to provide better information for command and management use.

- Recommends: The Section develops and submits to management recommendations for strategic/tactical deployments, allocations, etc., based upon the results of the analytical process and any discernable, unique features of identified series of events.

Assesses: This section and the Operation Analysis Section in Research and Development bear the responsibility for the in-house evaluation of those plans and programs instituted by operations elements of the Department upon the recommendations generated by this unit.
Reports: The obligation to keep management and operations informed as to the results achieved from functions performed by the section are of the utmost importance. Strategic and tactical plans based upon or incorporated into such reports will be developed and implemented with-

Information Coordination Section

- Disseminates: The Department publishes a daily "Watch Bulletin" utilized by line members of this and other nearby police departments. That function is performed by this section. Additionally, plans are being

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developed to expand the "Watch Bulletin," identify appropriate other media (videotape, television time, cassettes, etc.) for the widest, most effective dissemination of information that will facilitate operations in the identification and apprehension of wanted persons.

Implementing this Model meant that additional personnel with specific skills would be needed. Previous management commitments had been made to reassign some existing staff to Operations Support, where they would perform duties virtually identical to those they performed in their previous assignments. Such reallocations could not satisfy personnel requirements in the Case Control Section for two reasons: the first, that new and special skills had to be developed in the staff selected for the Case Review, Enrichment, Evaluation and Victim Liaison components; the second, that there are not sufficient personnel, generally funded, to provide staff for assignment to the above identified critical tasks.

It was determined that two levels of sworn personnel would be required for the Review, Evaluation and Victim Liaison functions. A supervisory sergeant would be needed to coordinate all functions of the section during a shift. Most importantly, that individual would have final authority for confirming decisions made by a police officer to early close, reclassify, unfound, or reactivate cases and to make the screening and investigative unit assignment determinations. The supervisors would be required to acquire new skills, but must also be generally regarded and respected for their expertise in preliminary and supplemental investigative practices and procedures and their knowledge of existing prosecutorial requirements and judicial philosophies. The police officers must have many of those same skills but not to such an advanced degree. The distinguishing characteristic between the two positions is that the police officer would recommend; the

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shift supervision.

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sergeant would be held accountable for the final decisions made. The volume of work estimated to be flowing through the Case Control Section supports the need for one officer and one sergeant on two shifts daily, five days per week. The assignment of a sergeant also provides for overall shift supervision.

The Case Enrichment function is performed by Police Records Clerks. Essentially, the staff selected must be trained to acquire a broad knowledge of all existing criminal information systems and how to access the systems in an interactive, dynamic fashion so as to obtain all possible information related to fragmentary information elements contained in preliminary investigation reports. Those selected for this specialized assignment must have demonstrated knowledge of automated systems and especially an acute interest in police investigatory practices and procedures. The personnel required for such positions are in addition to the Police Records Clerks reassigned from the Records Division, who are responsible for the Case Systems Entry function. Two positions of Police Records Clerks are required for each of two shifts five days per week.

As mentioned earlier mini-block grant monies available for State of California OCJP Plan Year 1980 were successfully requisitioned to support the funding of two positions of police sergeant, two positions of police officer, and four positions of Police Records Clerks to perform duties as outlined in the foregoing. The utilization of block grant funds as proposed reflects the commitment of the Department and the City to full implementation of the Operations Support Model.

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Results (OSU)

The processing of all burglary and receiving stolen property cases by San Jose's OSU represents a workload during first phase of approximately 40% of all felony cases handled by the Department. The OSU reports that it, during its first ten weeks of operation, screened out (held open but inactive) 79.4% of the 3,266 cases it processed. This resulted in the OSU's retention of responsibility for 2,594 cases. 20.6% of the total cases processed (672) were sent to the Burglary Investigation Unit for followup.

Highlights of the ICAP local evaluator's findings with regard to OSU are that:

- Pre and post mensurements indicate positive changes in Burglary Unit operating Julerns.
 - Patterns of time usage by investigators showed positive changes in three areas.
 - Investigator attitudes toward OSU impact showed moderate positive shifts.
 - A higher proportion of "assignable" cases are being assigned and receiving some followup.
 - •. Burglary complaints filed have increased in number and in proportion to numbers of assigned cases.

- Analysis of OSU. . .activities indicate that:

- Most low probability cases are being screened out by the OSU.
- The great majority of cases forwarded to burglary are subjected to enrichment. . .
- A high proportion of enrichment. . .activities are successful.
- About 11% of those cases forwarded to burglary by OSU had new

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(Unit).

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The OSU manager's closing comment on the Unit's first status report represents the majority opinion of all San Jose Police Department members who are affected by the existence of the OSU. It merits repetition here. "We are optimistic that we are on the right track and that the effort is worthwhile."

solvability elements added. . .

• . . .there appears to be a direct link between OSU enrichment activities and ultimate disposition of those cases by Burglary

IV. CONCLUSION

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Operations Support Model (Unit)

As can be seen from the information given above, the Operations Support Model provides for an integrated, coordinated and efficient means of providing direct support to the operational entities of the Department. While many of the functions were already being performed, they were not organized into a simple functional entity. It is anticipated that those functions will be enhanced by the very fact of close operational relationship with other functions in the Operations Support Unit, over a period of time. It is also anticipated that certain functions, particularly Crime Analysis and Operations Analysis (although not an OSU function, but part of R & D, an ICAP product, nonetheless), will be expanded so as to provide even greater contributions to the overall performance of the traditional police mission. We fully recognize that because the Department does not operate in a static environment some changes may be necessary as implementation proceeds. The Operations Support Model has purposely been designed with this in mind. As can be seen from the presentation above and in the appendices indicated, the Model is flexible, and has been designed to meet changing requirements. Indeed, its flexibility was crucial in enabling its implementation, as discussed above.

While the Model is designed to increase efficiency, and is expected to result in savings over time, it did require a degree of financial expenditure in the initial stages to accomplish the needed changes. That financial need was met, in part, by State of California Mini-Block Grant funds, as described earlier. Current and continuous budget constraints may require some changes (or require changes from the original

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design now in being to become permanent) particularly where additional personnel resources are required. Since some of the key functions of the Model already existed in the Department, changes in implementation which were necessary because of funding limitations were not so severe as to prevent the resulting entity from accomplishing its stated goals. It is hoped that, over time, those areas which are affected can be funded (even incrementally) so that the end result will be full realization of the Operations Support Model as planned.

District/Beat Restructuring Project

A performance goal written into San Jose's ICAP II application was to "complete and submit study of reconfiguring beat structures by January, 1980". This study was accomplished; the resulting plan was implemented by the Department on January 18, 1981.

After the close of ICAP I San Jose ICAP's local evaluators, Hughes-Heiss, during their exit meeting with the Chief and Assistant Chief of Police stated that it was their opinion that ICAP II, which was already in progress, was over committed. They felt that 1) implementation of "OSU", 2) completion of "ACES" installation/testing, 3) development and implementation of a new district/beat system, and 4) designing an Operations Managers' Information System were more than could be achieved by the Project at the then existing resource level.

A succession of resignations of all three of the Project's original analysts compounded this identified problem. The remaining key staff were the manager and two relatively new staff analysts. Halfway through the grant (the nine month point) the Project was without a statistical analyst, confronted by a City hiring freeze and, allowing that the freeze could be bypassed, was hard pressed to find a statistical analyst who

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1) would take a nine-month job or 2) could accomplish the district/beat project in the remaining nine months.

All of the above resulted in the Department's decision to postpone implementation of the district/beat project to January, 1981, and to not hire a statistical analyst for ICAP. The grant manager teamed with the Department's Crime Analyst, also a statistical analyst, and the newly selected Operations Analyst in the Research and Development Division; together they, with support staff, accomplished the district/beat project.

This project is documented in Appendix H.

As can be seen from a careful study of the foregoing, the Law Enforcement Assistance Administration's Integrated Criminal Apprehension Program through the San Jose Project has had and will have in the future substantial impact on the operation of the San Jose Police Department. The functions, methods and processes of the Department which have been affected by the incorporation of ICAP-articulated concepts we feel will provide a rich return to the people of San Jose on their investment in terms of improved, cost effective police services.

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SECTION V

APPENDICES



POLICE DEPARTMENT

Search Group, Inc. 925 Secret River Drive Sacramento, CA 95831

Attention: Mr. Joe Sharp

Attached is our request for approval for the EDP equipment to expand our Automated Case Enrichment System. As you know, the primary file on the system is the Field Interview Card file. As a secondary function, the system will be used as a word processor to update our Duty Manual and Beat Book Index, as well as other similar work as the needs arise.

We also plan to use the system for a variety of other files, to be put on at a later time.

The equipment to be purchased will correct two deficiencies. The first of these is a lack of adequate storage space, which the disk drives will greatly expand. The second is flexibility which will be enhanced by the addition of a CRT terminal and printer to be located in the crime analysis area and which will be available not only for crime analysis purposes, but for input of data, etc., as well.

Since prior LEAA approval is needed before our City Council can authorize the purchase, your early action on this request will be greatly

Any questions you may have may be directed to Bud Bye, ICAP Project Manager, at (408) 277-4106.

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Dear Joe:

appreciated.

JDM/RVB/MRB/crf

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Appendix A

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Appendix A

Computer Equipment Purchase

Approval Documents

CITY OF SAN JOSE, CALIFORNIA

201 W. MISSION STREET TELEPHONE (408) 277-4000

P.O. BOX 270 95103

September 8, 1980

Sincerely,

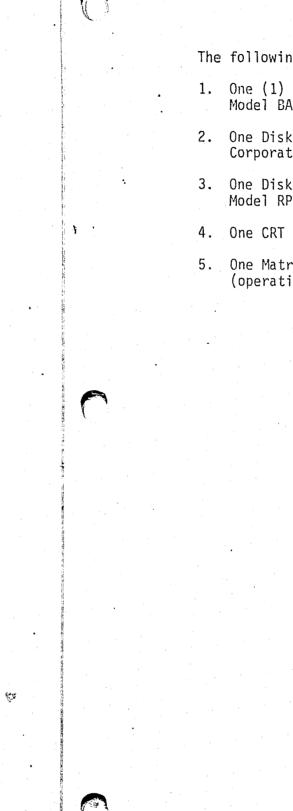
JOSEPH D. MCNAMARA Chief of Police

Tizzadishais. ROBERT V. BRADSHAW Assistant Chief of Police 1. Recommendation of SPA

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Since the City of San Jose ICAP Project is a "track one" grant, the SPA (Office of Criminal Justice Planning) is not involved in the administration of this grant. Therefore, the recommendation of the SPA is not applicable.

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2. Specific Equipment to be Purchased

The following equipment is to be purchased:

 One (1) Digital Equipment Corporation Expander Chassis, Model BA 11-KE.

2. One Disk Drive, with disk pack and controller, Digital Equipment Corporation Model RJP-04, 88 megabyte capacity.

 One Disk Drive with disk pack, Digital Equipment Corporation Model RP-04, 88 megabyte capacity.

4. One CRT Terminal, Digital Equipment Corporation Model VT-100.

5. One Matrix Printer, Digital Equipment Corporation Model LA-180 (operating speed of 180 characters per second).

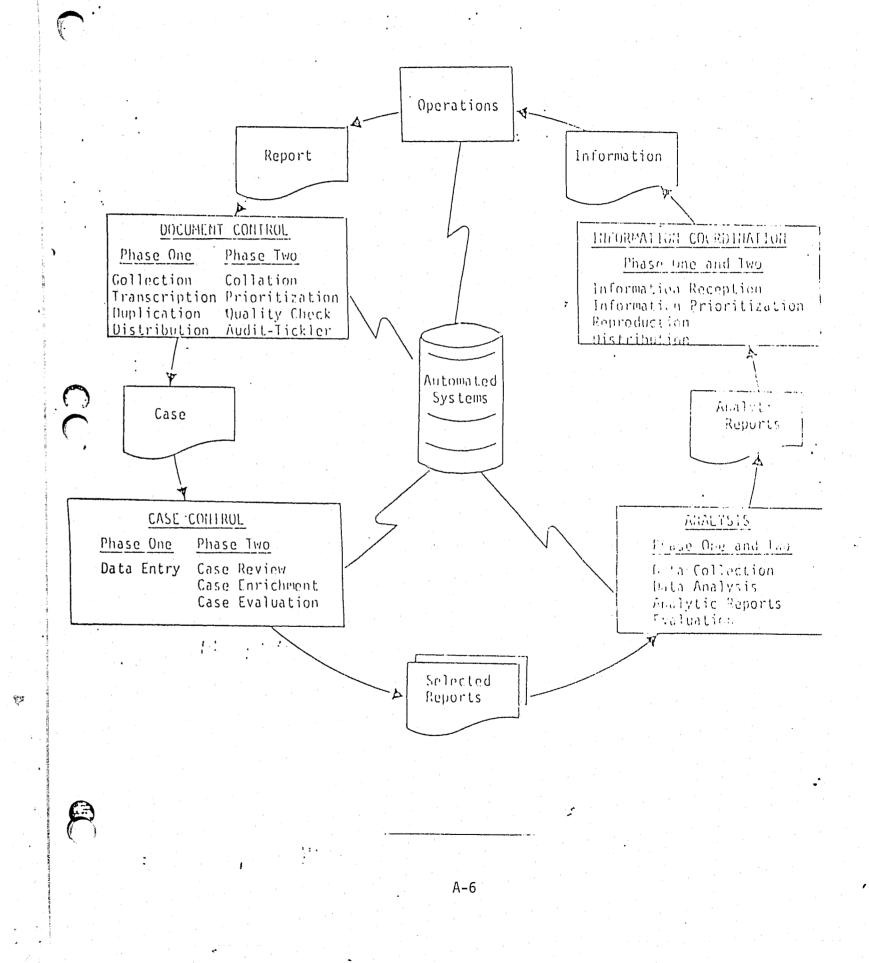
3. Project Goal

The project goal, as stated in the grant application is:

To increase the productivity of police manpower and strengthen management and supervision's decisionmaking processes that allocate such manpower in order to effectively and directly affect the potential victim, offender and opportunity for crime.

This rather broad goal has been translated into the development of an Operations Support Model, a schematic of which is attached. This model is being implemented in the third grant period, and will become a permanent system in the Department.

The equipment to be purchased is for expansion of a DEC PDP 11-34 computer system purchase during the second grant period. The expansion is needed to provide sufficient storage for the applications contemplated (including the Field Interview File, currently on the system), and to enhance flexibility of the system. Since the computer system (called the Automated Case Enrichment System - ACES) is used almost entirely by the Operations Support Unit, this purchase represents a direct enhancement of an ICAP product - namely the Operations Support Unit.



VELIVIA LAND - MELVICE CONTECT

SCHEMALIC CHART

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4. Bidders List

The following is the list of organizations solicited by the City of San Jose in its Request for Proposal (RFP):

Digital Equipment Corporation* 100 Bush Street, Seventh Floor San Francisco, CA 94104

Digital Accessories and Supplies 632 East Carribean Sunnyvale, CA 94086

International Data Services, Inc.** 453 D Ravendale Drive Mountain View, CA 94043

West Coast Computer Exchange, Inc.

Systems Industries 525 Oakmead Parkway P.O. Box 9025 Sunnyvale, CA 94086

Xebec Systems, Inc. 2985 Kifer Road Santa Clara, CA 95051

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Pacific Data Systems 701 Welch Road Palo Alto, CA 94304

248 Sobrante Way

Sunnyvale, CA 94086

* Response received from office in Santa Clara, CA. See listing in item 5, following.

** Response received from office in Sunnyvale, CA. See listing in item 5, following.

A-7

The following is a list of organizations responding to the RFP:

Digital Equipment Corporation 2525 Augustine Drive Santa Clara, CA 95051

International Data Services, Inc.* 1020 Stewart Drive Sunnyvale, CA 94086

West Coast Computer Exchange, Inc. 248 Sobrante Way Sunnyvale, CA 94086

Systems Industries 525 Oakmead Parkway P.O. Box 9025 Sunnyvale, CA 94086

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* Selected as the lowest responsible and responsive bidder. The firm will supply all items of equipment indicated herein.

5. Responses

A-8

6	Page 1 of	Implement- .ation Date	Pelease Date	Classed - Time .	Purchase Naount	Corganiant.	DEC BA-11Ft Expander CF	
V	5	Nov. 1, 1980	Nov. 1, 1990		\$3,425.00			1
	Year	Viscount	Annual Maintenance	Purchise Present Value	Cumulative Value	Annual * Costa	resent V Aue	jum Glat Valui
	1	0.877	216	189.43	3,425.00	872.62	765.29	765.2
	2	0.769	216	166.10	3,591.10	872.62	671.04	1,436.
	3	0.675	216	145.80	3,736.90	872.62	589.02	2,0?5.
	4	0.592	216	127.87	3,864.77	872.62	516.59	2,541.
2	5	0.519	216	112.10	3,976.87 .	872.62	452.89	2,094.
	6	0.456	216	98.50	4,075.37	872.62	397.91	3 - 12.
	7	0.400	216	86.40	4,161.77	872.62	349.05	3.741.
	8	0.351	216	75.82	4,237.59	872.62	.06.07	
	- 9	0.308	216	66.53	4,304.12	872.62	263.77	.т. н .н.н.
(0.270	216	58.32	4,362.44	872.62	1 . 35.61	4
		erential Cal Cumulativ Less Cumu Differenc	e Value of Pu lative Value	rchase of Lease		5 4,362 5 4,552 5 189	.24	
	Sup	portive Comma * Includes m	nts: aintenance co	sts		Decision	= Purchase	
and the second								
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			· · · · · · · · · · · · · · · · · · ·	······································	A-10			<u> </u>

6. Lease/Purchase Analysis

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LEASE/PURCHASE ANALYSIS SUMMARY

			2010 0110 CT	MONTHLY	MONTHLY	LEASE/PURCHASE	PRESENT VALUE OF SAVINGS THROUGH PURCHASE
			PURCHASE AMOUNT	MAINTENANCE	RENTAL	DECISION	HRUUGH PUKUNASE
		COMPONENT		\$ 18.00	\$ 87.26	Purchase	\$ 189.80
	1.	Expander Chassis	\$ 3,425	•		Purchase	2,865.41
	2.	Disk Drive, Pack	17,000	272.00	543.59		
		and Controller	•		449.69	Purchase	2,549.03
, , ,	3.	Disk Drive and Pack	13,000	242.00			179.21
	Λ	CRT Terminal	1,850	17.00	46.56	Purchase	
		Matrix Printer	2,460	50.00	89.30	Purchase	526.11
	•••						

LEASE/PURCHALL ABALISTS MERCOREL

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2 2 Df	Implement- ation Date	Pelease Date	Clapsod Time .	Purchase Amount		DEC RJP-04 and Disk Pac ller	k
5 N	lov. 1, 1980	Nov. 1, 1990	10 years	\$17,700		an tu na at	••••••••••••••••••••••••••••••••••••••
-	lactors	Annual	Present	Cumulative	Anne di * T	- Prosent	i constativ
lear	Discount	Maintenance	Value	Value	0.55 5	<u></u>	Value
1	0.877	3,264.00	2,862.53	17,000.00	6,523.13	5,720.79	5,720.79
2	0.769	3,264.00	2,510.02	19,510.02	6,523.13	5,016.29	10,737.08
3	0.675	3,264.00	2,203.20	21,713.22	6,523.13	4,403.11	15,140.19
_4	0.592	3,264.00	1,932.29	23,645.51	6,523.13	3,861.69	19,071.83
5	0.519	3,264.00	1,694.02	25,339.53	6,523.13	3,385.50	22,387.38
	0.456	3,264.00	1,488.38	26,827.91	6,523.13	2,974.55	25,361.93
<u>v</u>	0.400	3,264.00	1,305.60	28,133.51	6,523.13	2,609.25	27.071.18
 8	0.351	3,264.00	1,145.66	29,279.17	6,523.13	2,289.62	. 30 (16) (8)
<u>0</u>	0.308	3,264.00	1,005.31	30,284.48	6,523.13	2,009.12	32
 10	0.270	3,264.00	881.28	31,165.76	6,523.13	1,761.25	31,401.17

Cumulative Value of Punchase Less Cumulative Value of Lesse

Difference

Supportive Comments:

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* Includes maintenance costs

31,165.70 34,031.17 2,865.41

Decision = Purchase

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Ć	Page 3 of 5	lanlements ation Date	· · · · · · · · · · · · · · · · · · ·	tlåradd Fime	Parebaye Teenut	and Dish P	DEC ((P=04) () ack	ik Drive -
			Nov. 1, 1990		\$13,000			•
- contraction of the second seco	Year	Discount	Anneil Baintenance	Value Value	Commulative Vilue	Анна; ; ; к • С.; ; ; ,	e de a tenanto 1 Sug	an a seiseura 1900 Autablia 1900 Autor
		0.877	2,904.00	2,546.81	13,000.00	5,396.28	4,732.54	4,732.54
	2	0.769	2,904.00	2,233.18	15,233.18	5,396.28	4.149.74	1 8,882.25
	3	0.675	2,904.00	1,960.20	17,193.38	5.396.28	5.642.49	12,524.77
1 2	4	0.592	2,904.00	1,719.17	18,912.55	5,306.23	3,194.60	15,719.37
	_5	0.519	2,904.00	1,507.18	20,419.73	5,396.28	2,800.67	18 520.01
	_6	0.456	2,904.00	1,324.22	21,743.95	5,306.28	2,460.70	29.563).74
建 		0.400	2,904.00	1,161.60	22,905.55	5,396.28	2,158,51	27.131.2万
	8	0.351	2,904.00	1,019.30	23,924.85	5,396.23	1,394,09	en de la de la La de la d
A.	0	0.308	2,904.00	894.43	24,819.28	5.396.00		
(10	0.270	2,904.00	784.08	25,603.36	5,396.28	· · · · · · · · · · · · · · · · · · ·	
	Diffe	rential Calcu Cumulativo Less Cumula	ulation: Value of Purc ative Value of	chase * Luase		25,603. 28,152.		
		Difference	•			2,549.		
	Suppo	ntive Copusen	US:	an a				· · · · · · · · · · · · · · · · · · ·
		* Includes ma	intenance cos	ts		Decision =	Lunchase	
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Pága 5 of	Implement- ation Date		Llathed Time	Parchases Around	Matrix Pri		
5	Nov. 1, 1980	Nov. 1, 1990	10 years	\$2,460.00	• • • • • •		
Year	Discount		Present Valse	Tumulative Value	Annyal * Costa	essionts Sentes Salue	
. 1	0.877	600	526.20	2,460.00	1,071.62	939.27	939.27
2	0.769	600	461.40	2,921.40	1,071.62	824.08	1,703.36
3	0.675	600	405.00	3,326.40	1,071.62	723.34	2,486.69
4	0.592	600	355.20	3,681.60	1,071.62	6.34.40	3,121.03
5	0.519	600	311.40	3,993.00	1,071.62	556.17	3.677.86
6	0.456	60.0	273.60	4,266.60	1,071.62	at2.66	4,165.92
7	0.400	600	140.00	4,506.60	1,071.62	428.65	4, 54,55
8	0.351	600	210.60	4,717.20	1,071.62	376.14	$\gamma \in [0, T]$
9	0.308	600	184.80	4,902.00	1,071.62	1 20.06	
10	0.270	600	162.00	5,064.00	1,071.62	2:39.34	r
Diff	erential Cal	culation:		<u></u>	and a second processing and and	• • • • • • • • • • • • • • • • • • •	· · · · · ·
		e Value of Pu lative Value G			5,064. 5 5,064.		

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2. It is anticipated that the equipment will serve the purposes for which it is being acquired for a period of ten years. Also, given the post Proposition 13 funding situation in the City, it is doubtful that funds for replacement of the system would be available any time soon, and it can be reasonably anticipated that the system will have to be used to its maximum feasible time before a replacement system could even be considered. In that there is now computer equipment in use in the City which is approaching ten years in age, it would appear that ten years is a reasonable anticipated use time. For these reasons, the release date of November 1, 1990 is used, and the analysis is predicated on an anticipated use of ten years.

3. On a long term lease, the City would ordinarily make annual payments, and so the Distributed Payment Factor was not used. Maintenance costs in a purchase situation will be by contract and paid annually.

4. The discount factors used are for 14% interest, the rate cost recently paid by the City for leasing of equipment.

Difference

Supportive Comments:

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* Includes maintenance costs

Decision = Purchase

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Explanatory Notes

1. If the City were to lease the equipment, lease payments would begin after installation. In the case of the present proposed purchase, it is anticipated that this will be accomplished in October 1980, and, therefore, an implementation date of November 1, 1980 has been used, since that would be the date of the first lease payment. 7. Sole Source Justification

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Not Applicable.

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8. Programming Language

Not Applicable.

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v... Department of Austria

Bureau of Justice Statistics

Washington, D.C., 20831

OCT 3 0 1985

Mr. Joe Sharp SEARCH Group, Inc. 925 Secret River Drive, Suite H Sacramento, California 95831

Dear Mr. Sharp:

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SEARCH Group, Inc. letter of October 7, 1980 requested approval for the San Jose Police Department, an ICAP agency in California, to procure certain ADP equipment.

We have reviewed the equipment listed in the enclosures to the letter and concur with the proposed expansion and procurement.

Sincerely,

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Wayne P. Holtzman Director Systems Development Division



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APPENDIX B

REPORT GENERATION AND PROCESSING FLOW CHARTS

Appendix B

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B-1

SAN JOSE POLICE DEPARTMENT REPORT GENERATION AND PROCESSING FLOW CHARTS 1979

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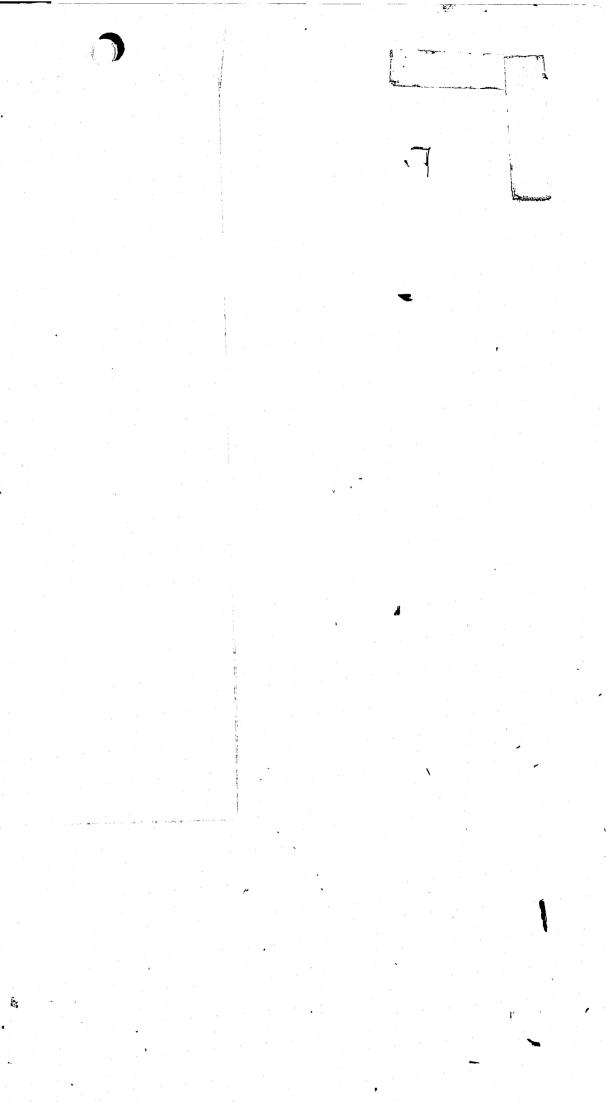
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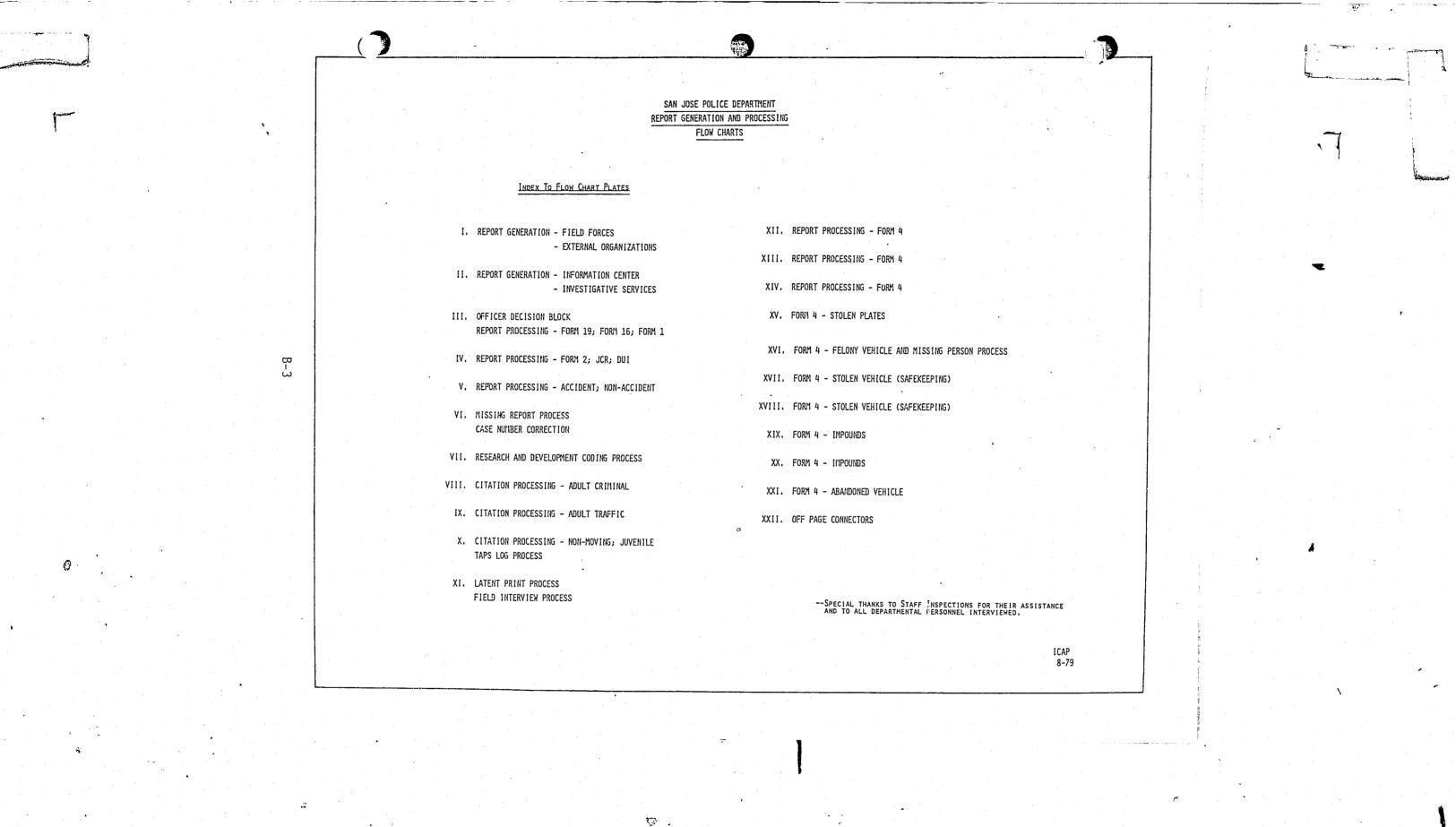
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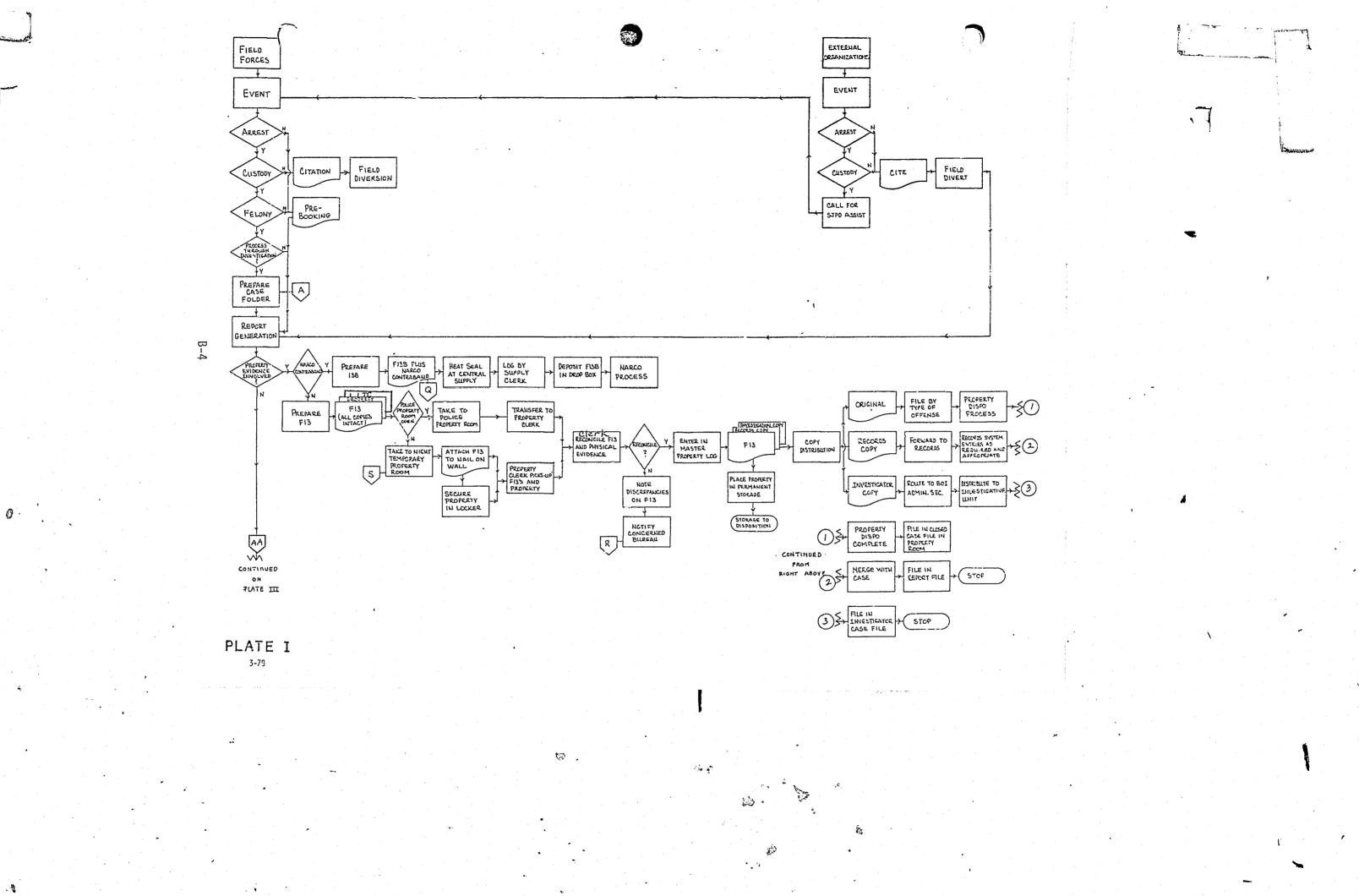
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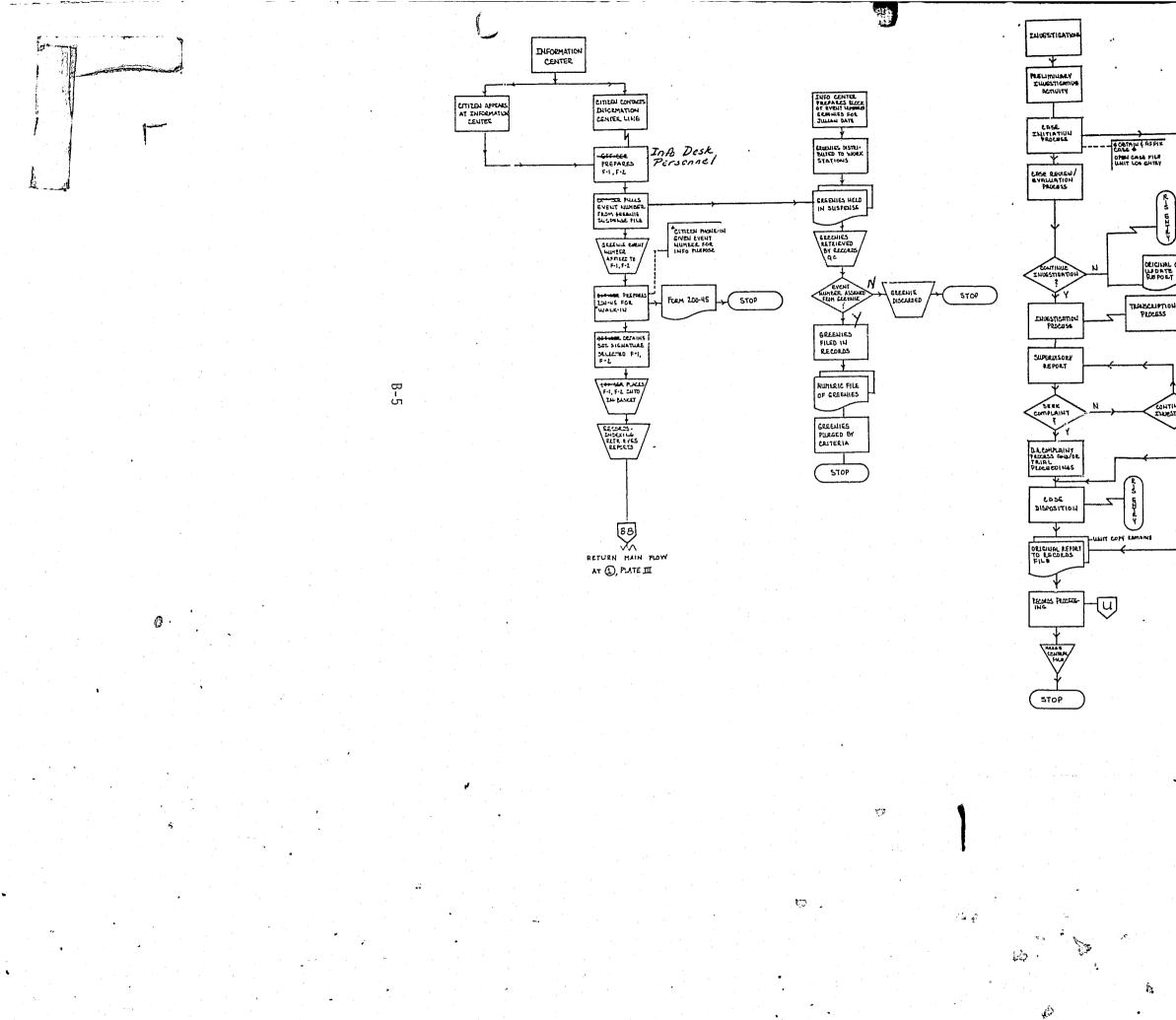
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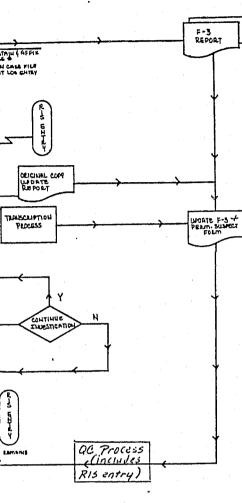




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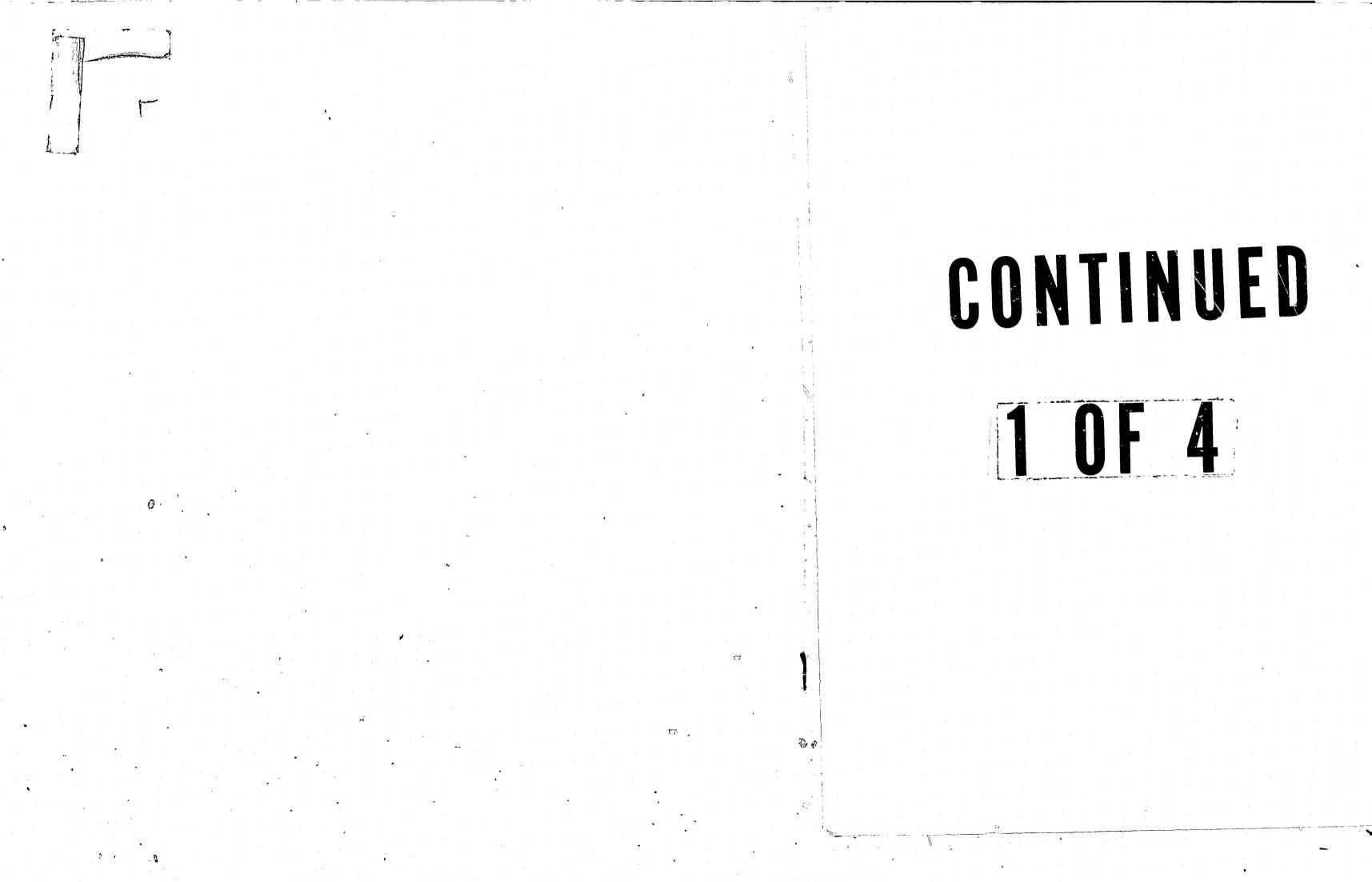
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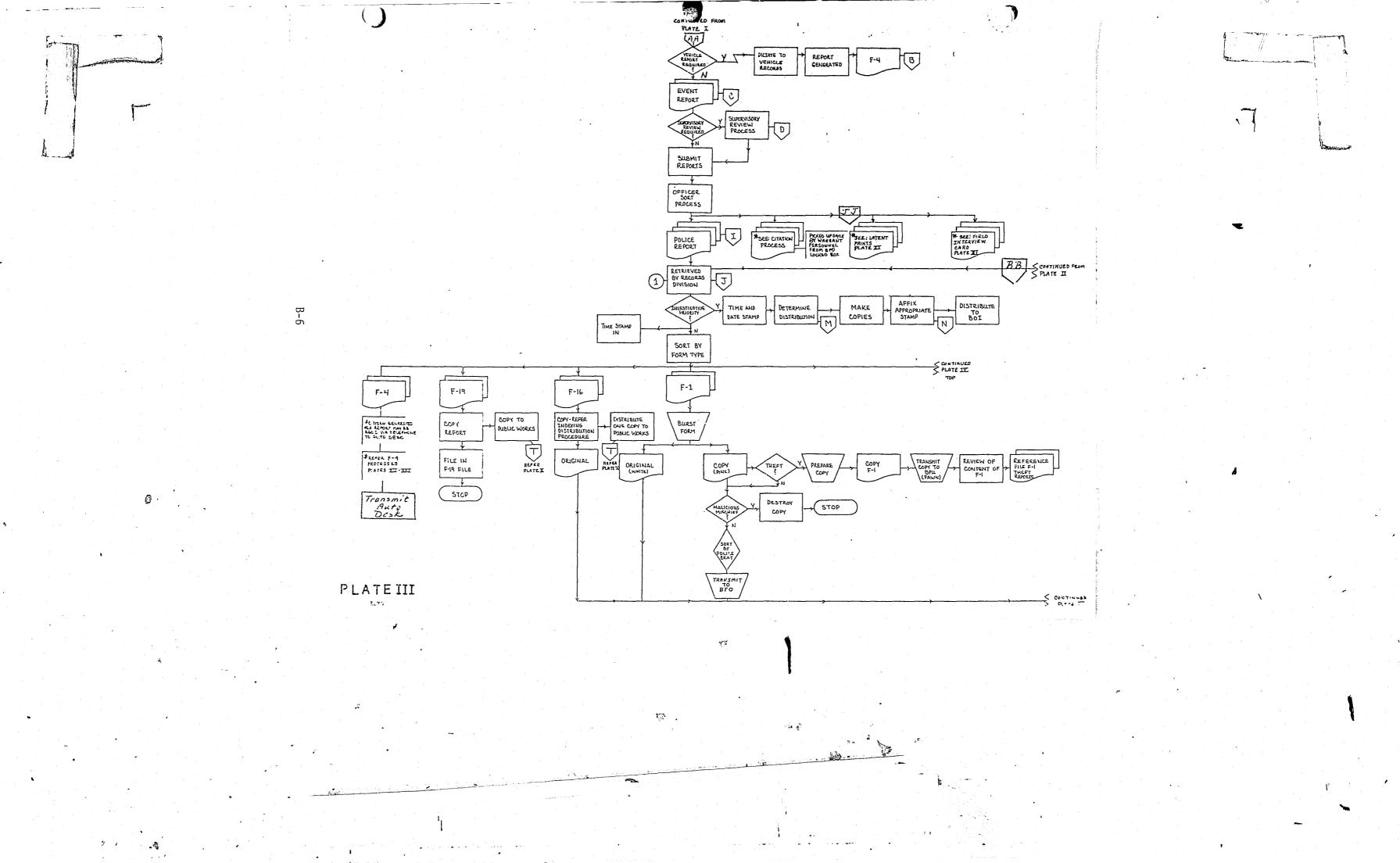
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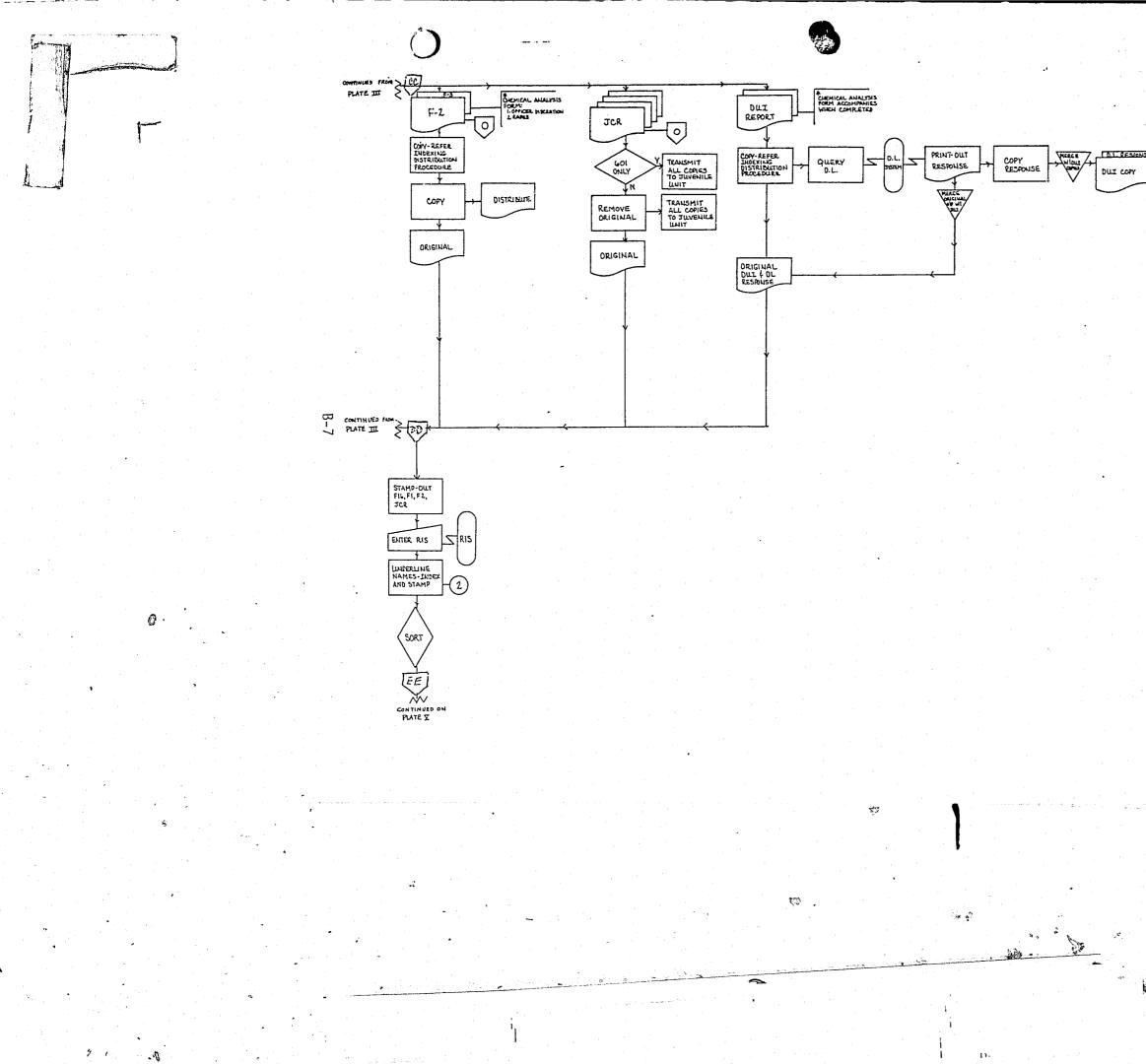
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PLATE II 3-79

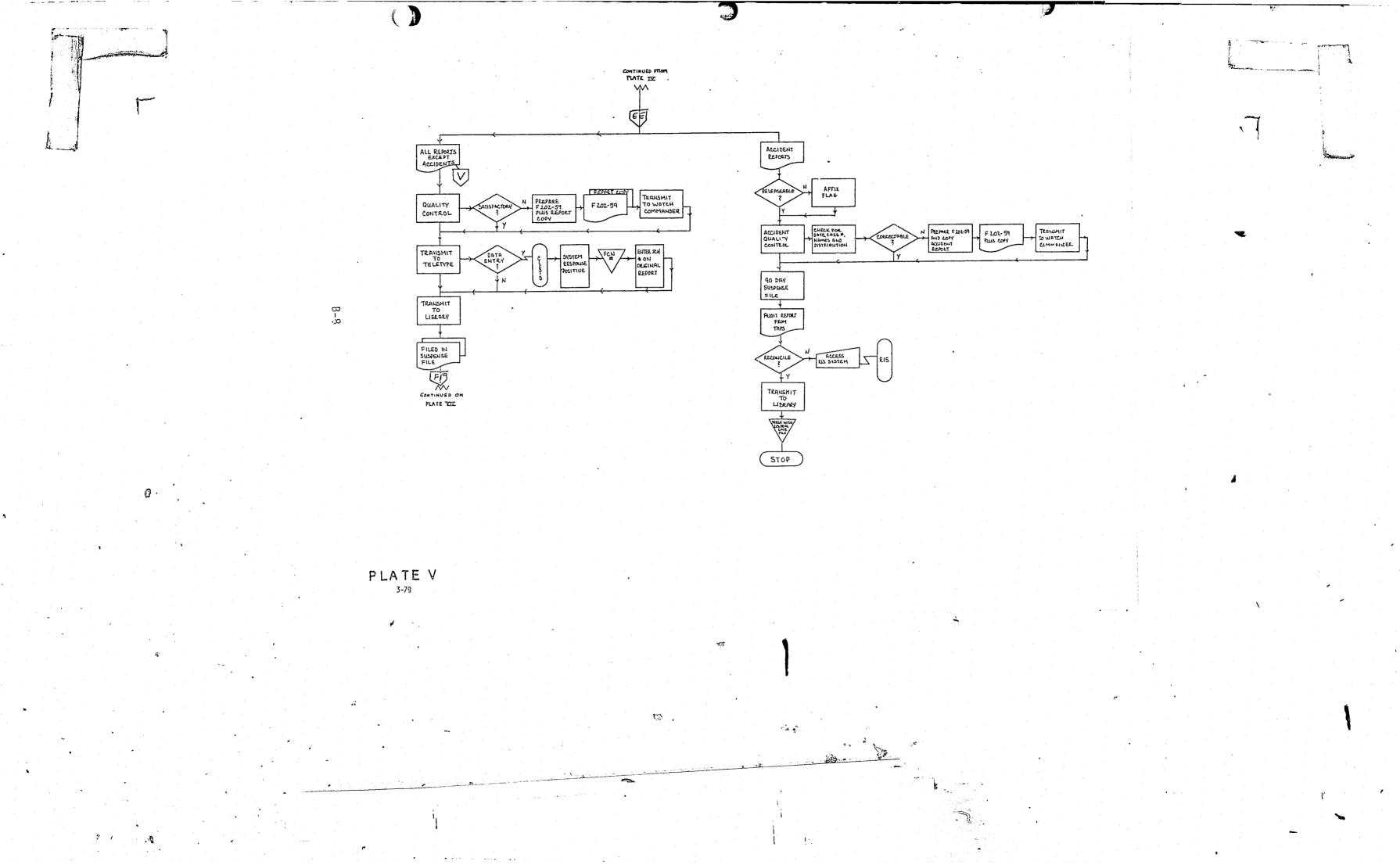
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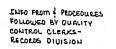
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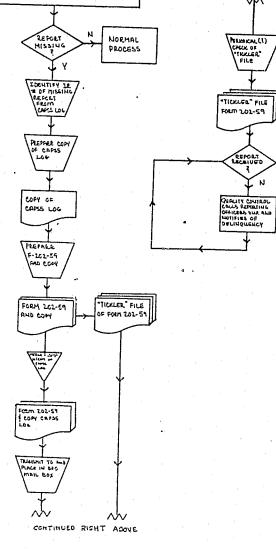
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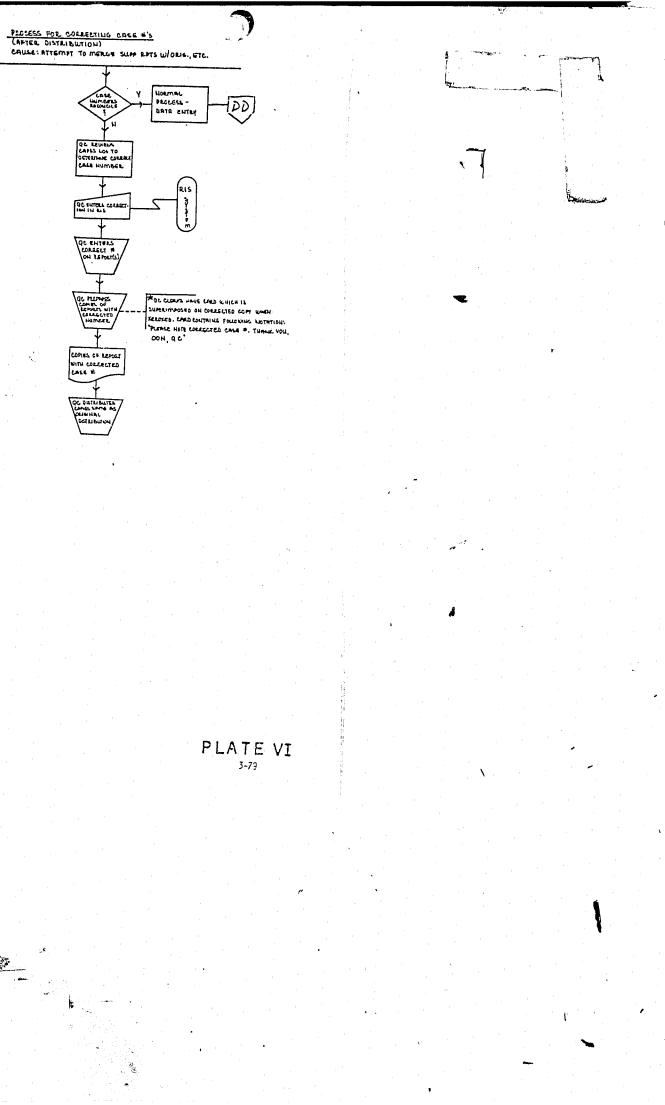
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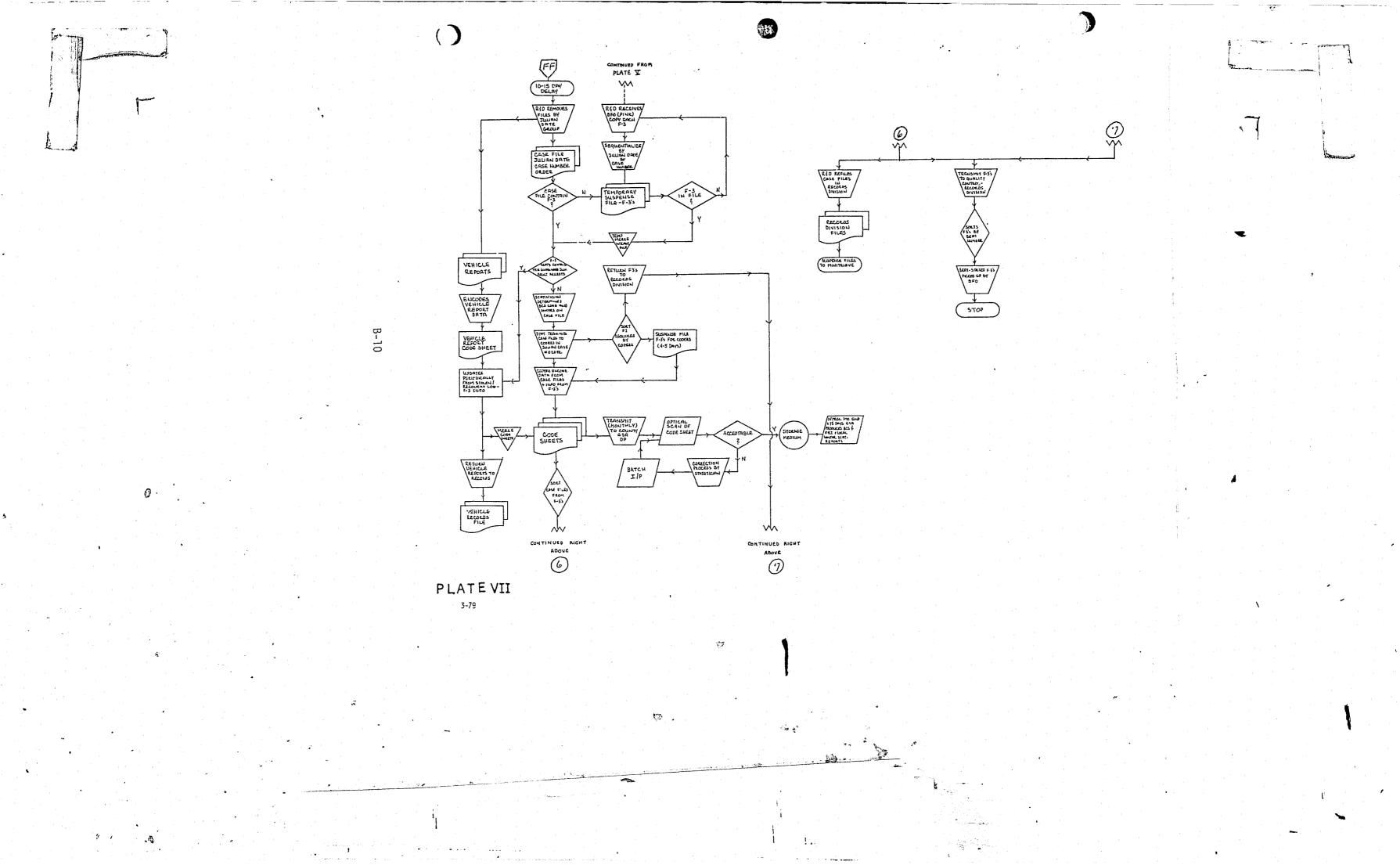
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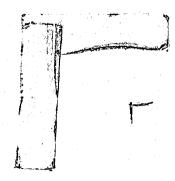
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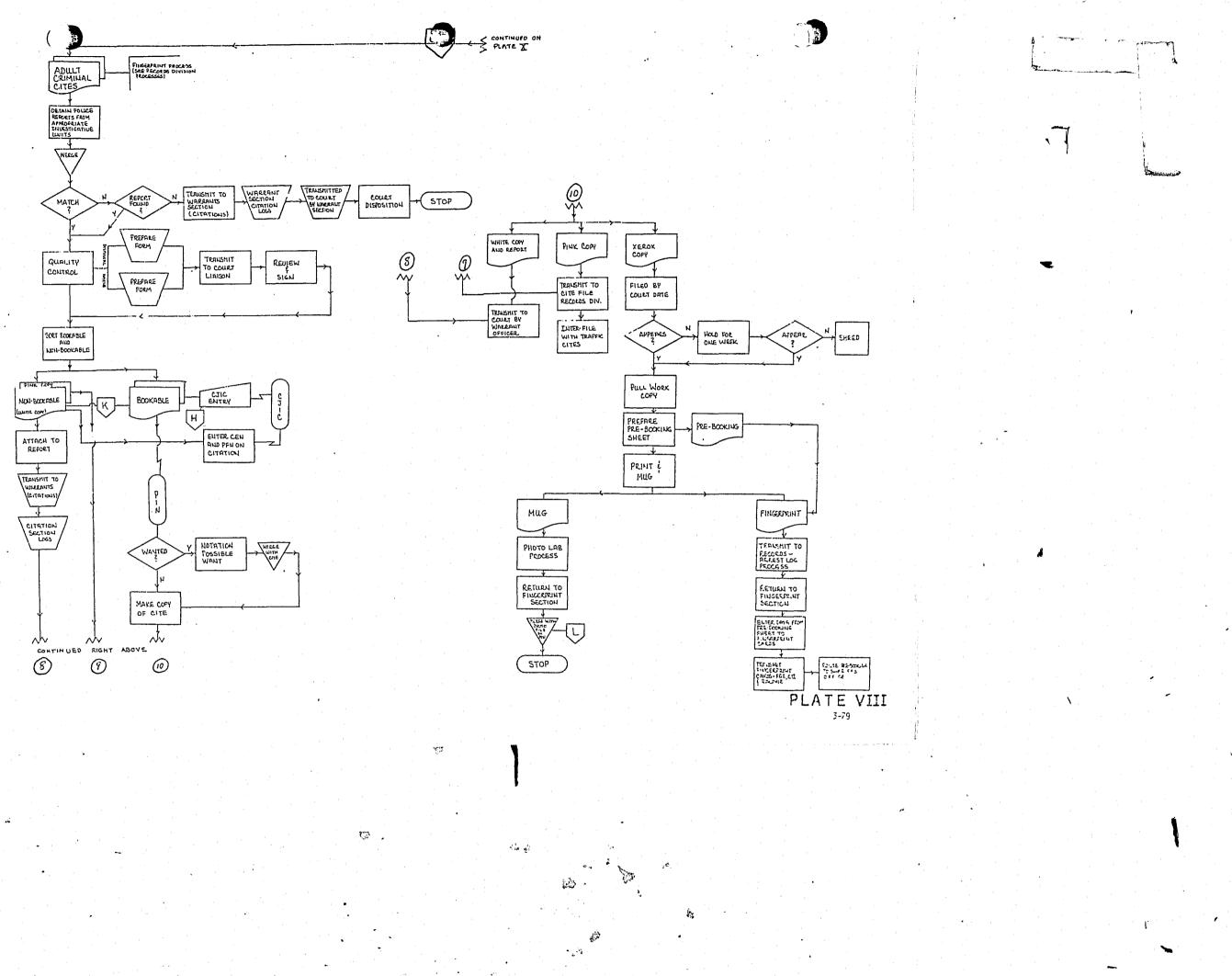
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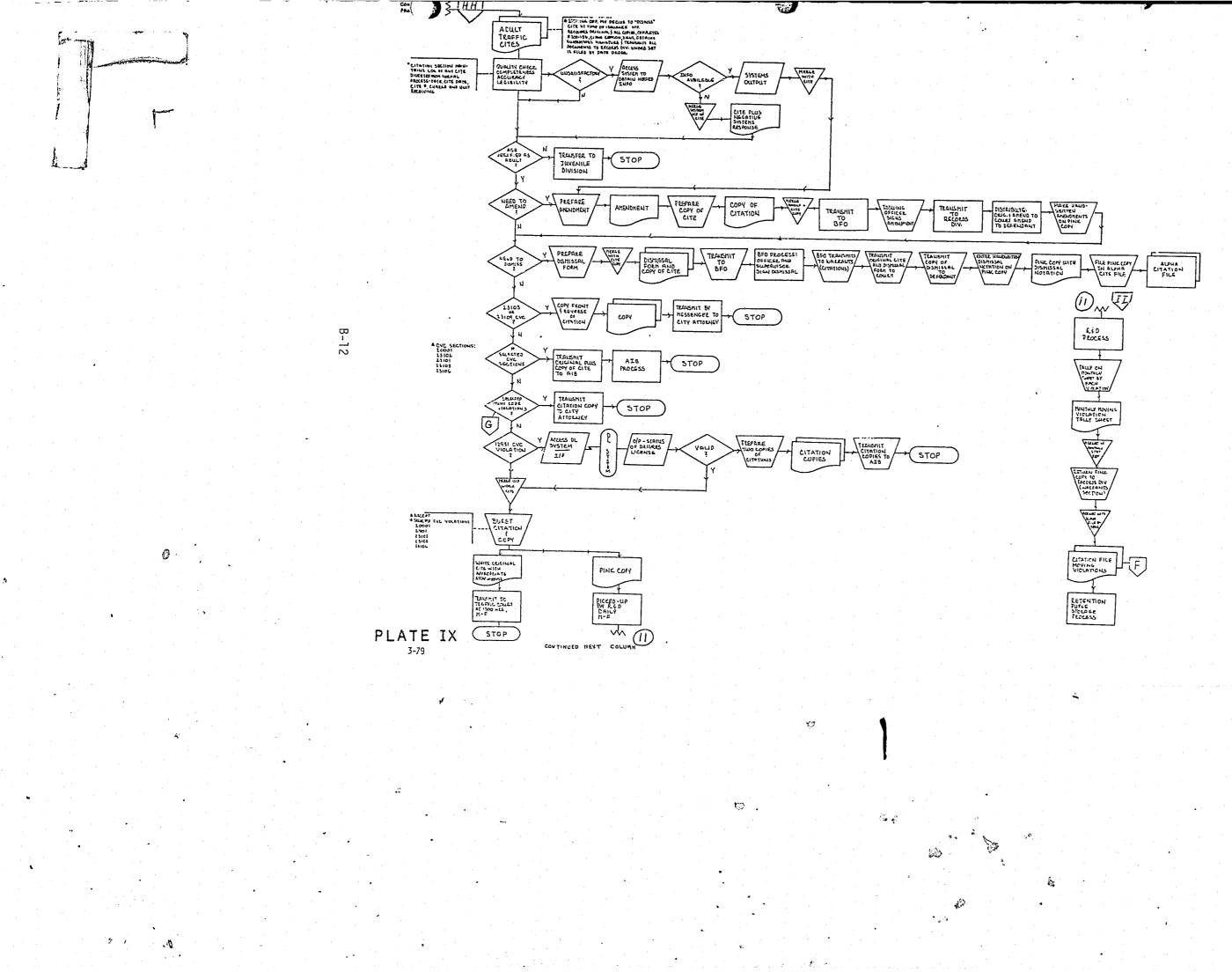


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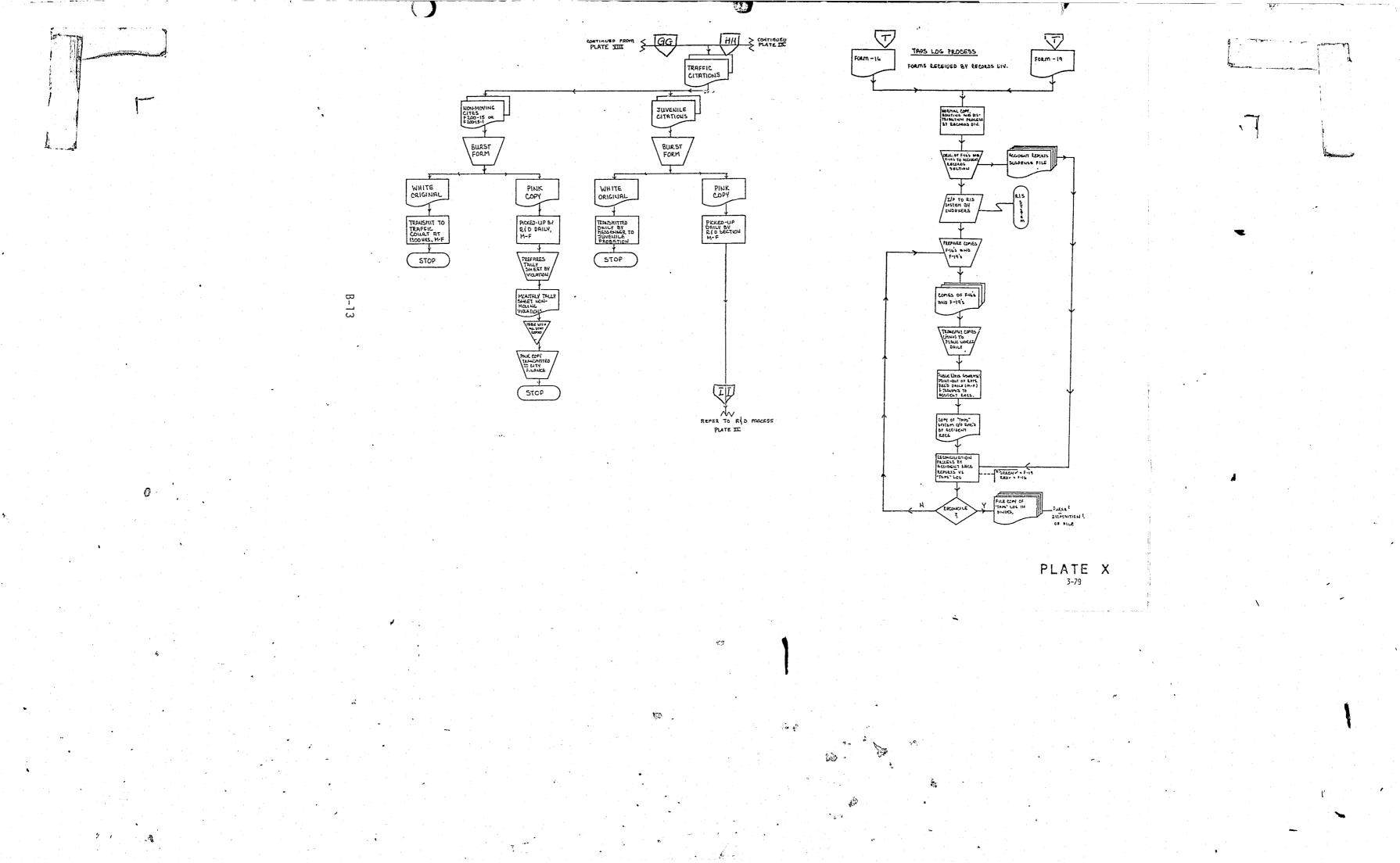
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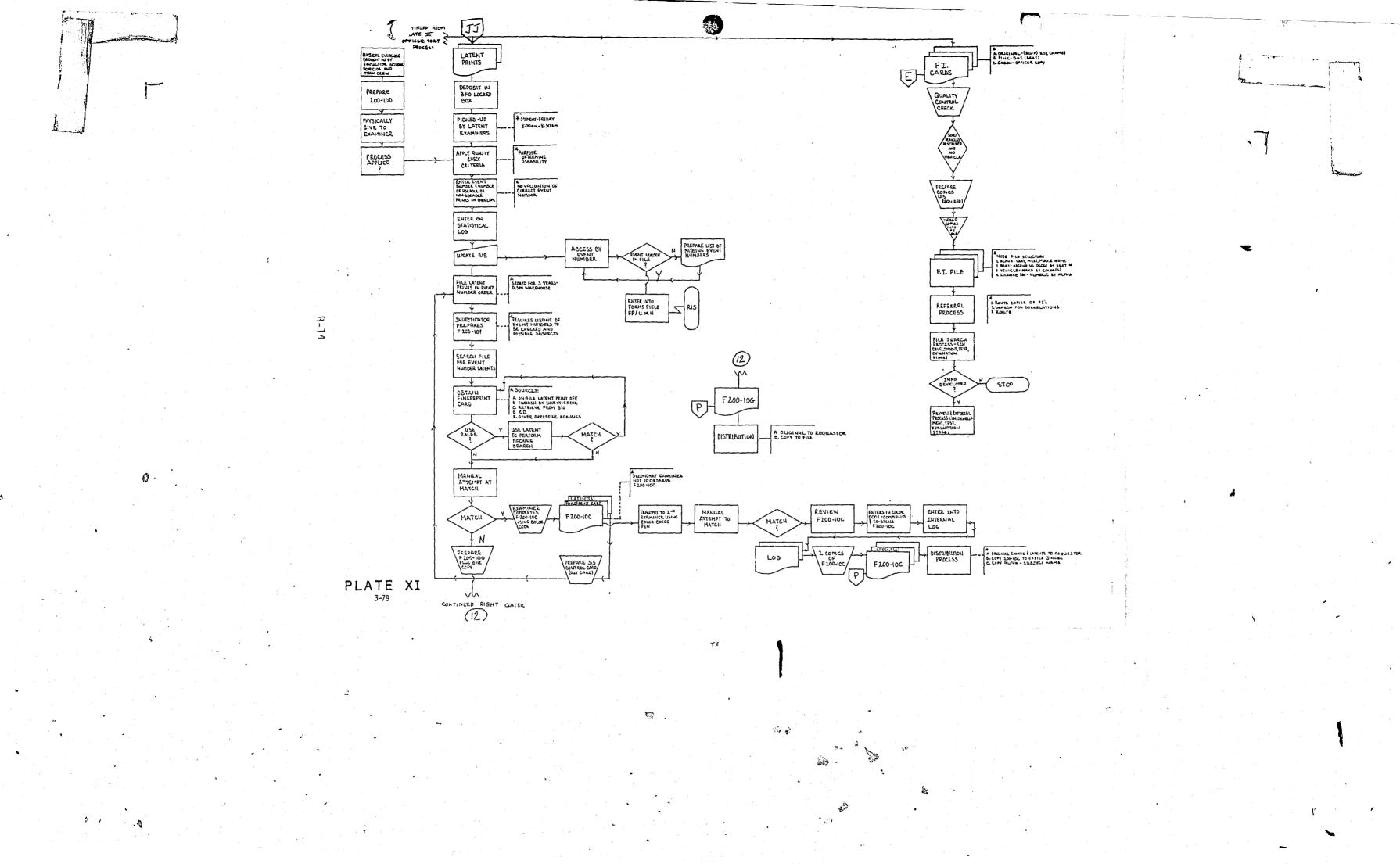
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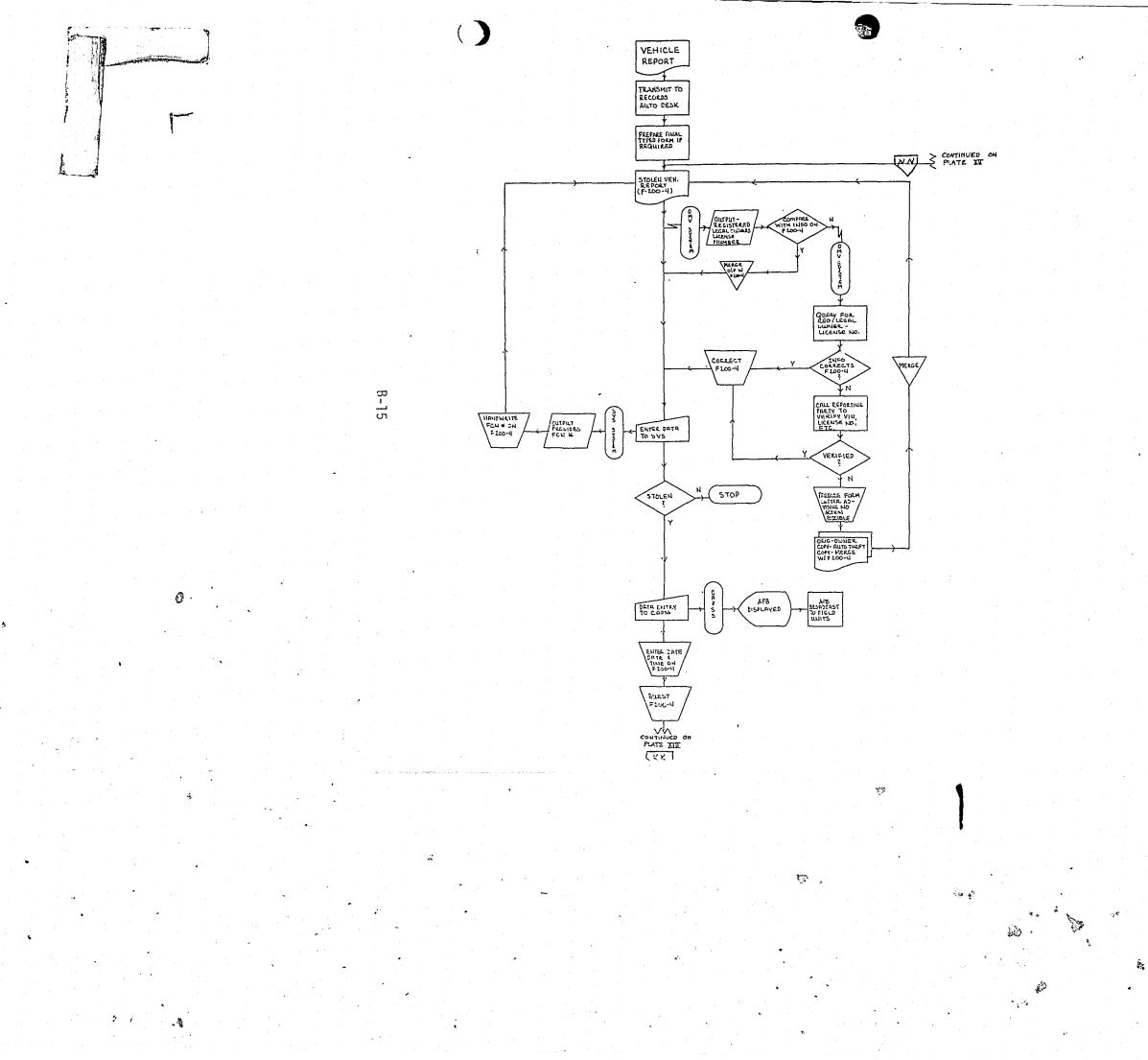


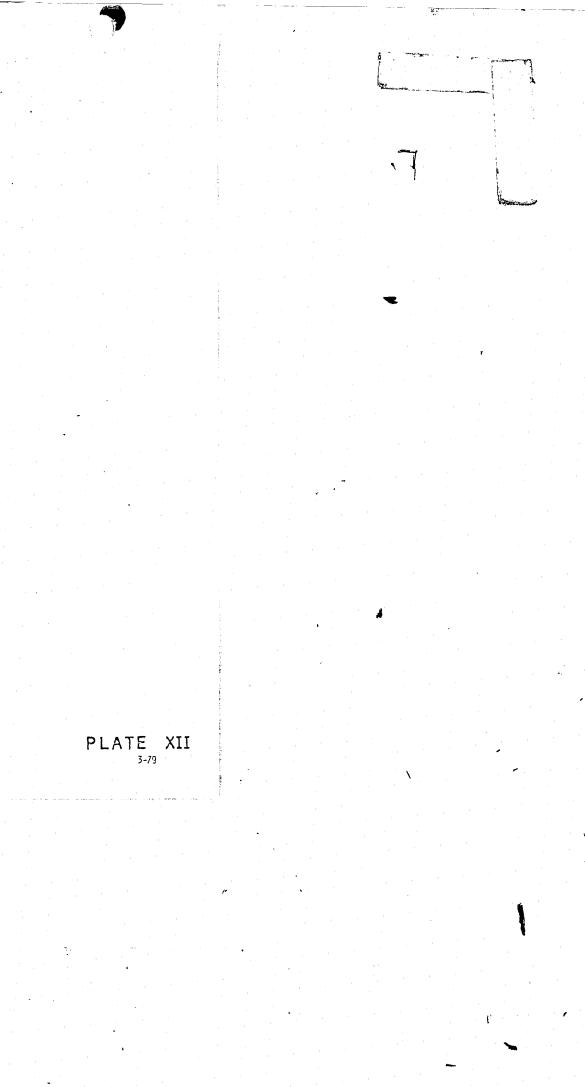
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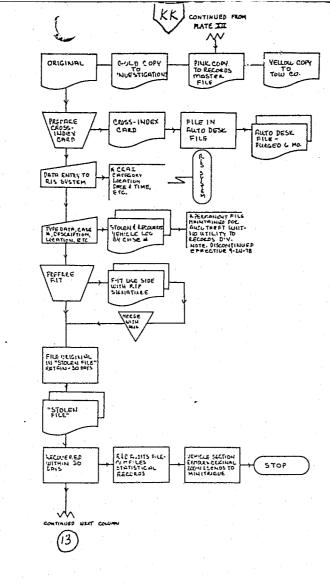


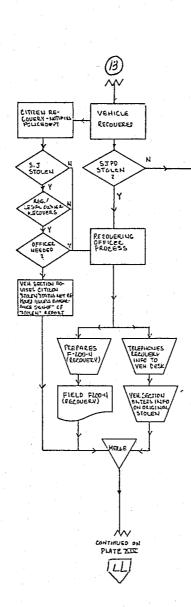












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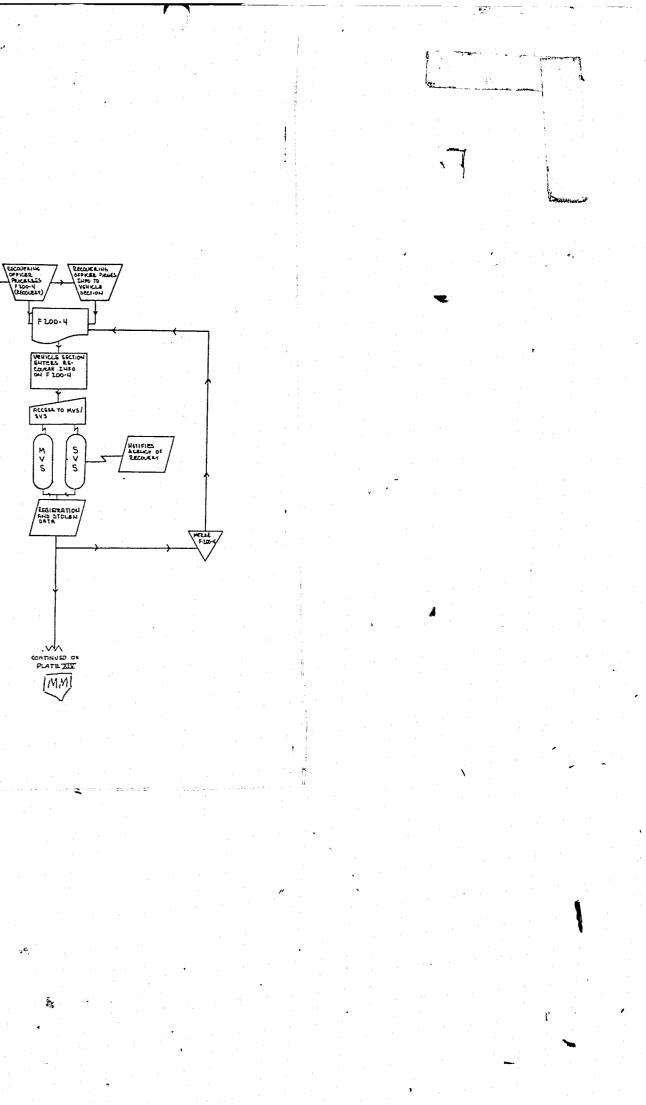
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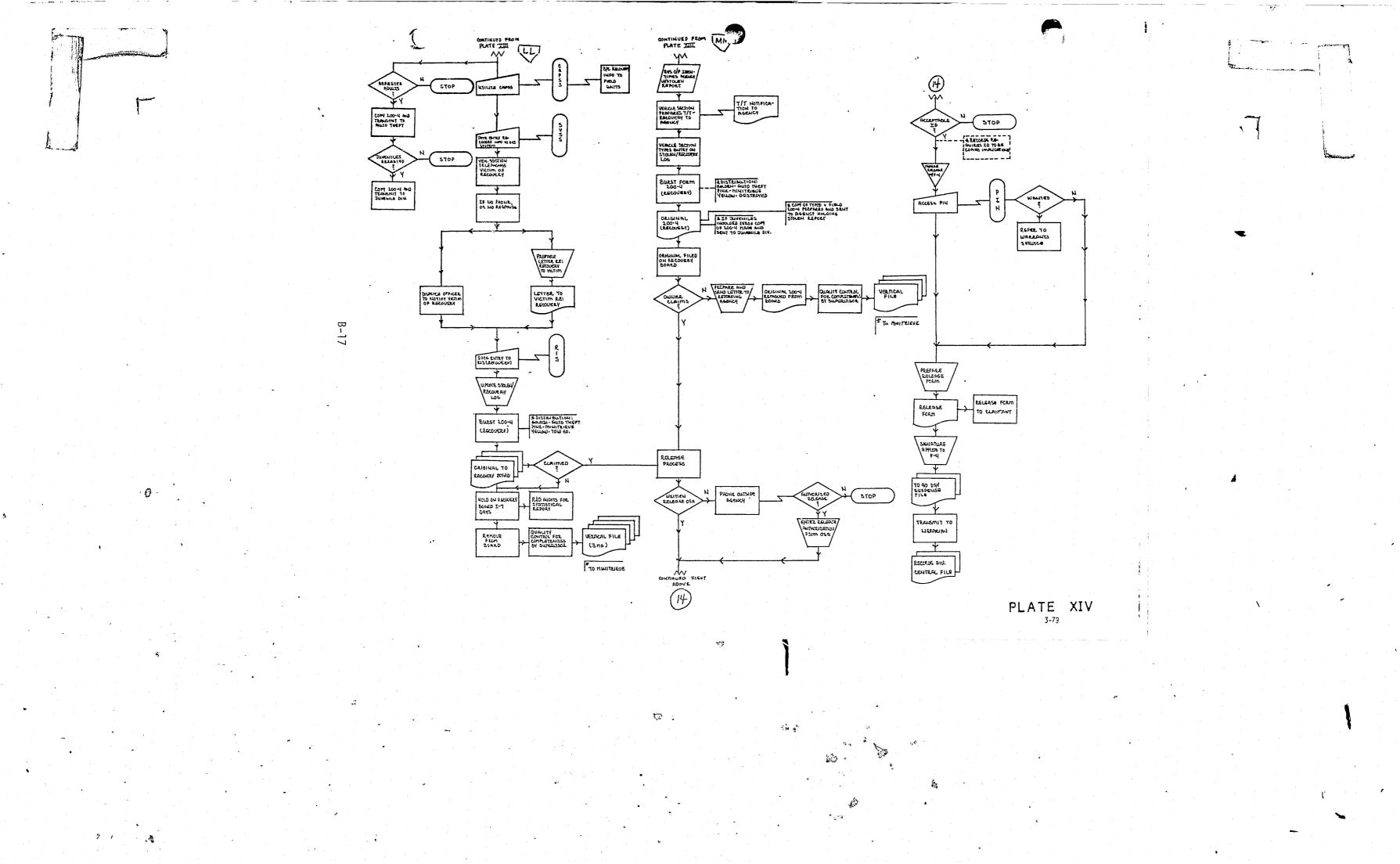
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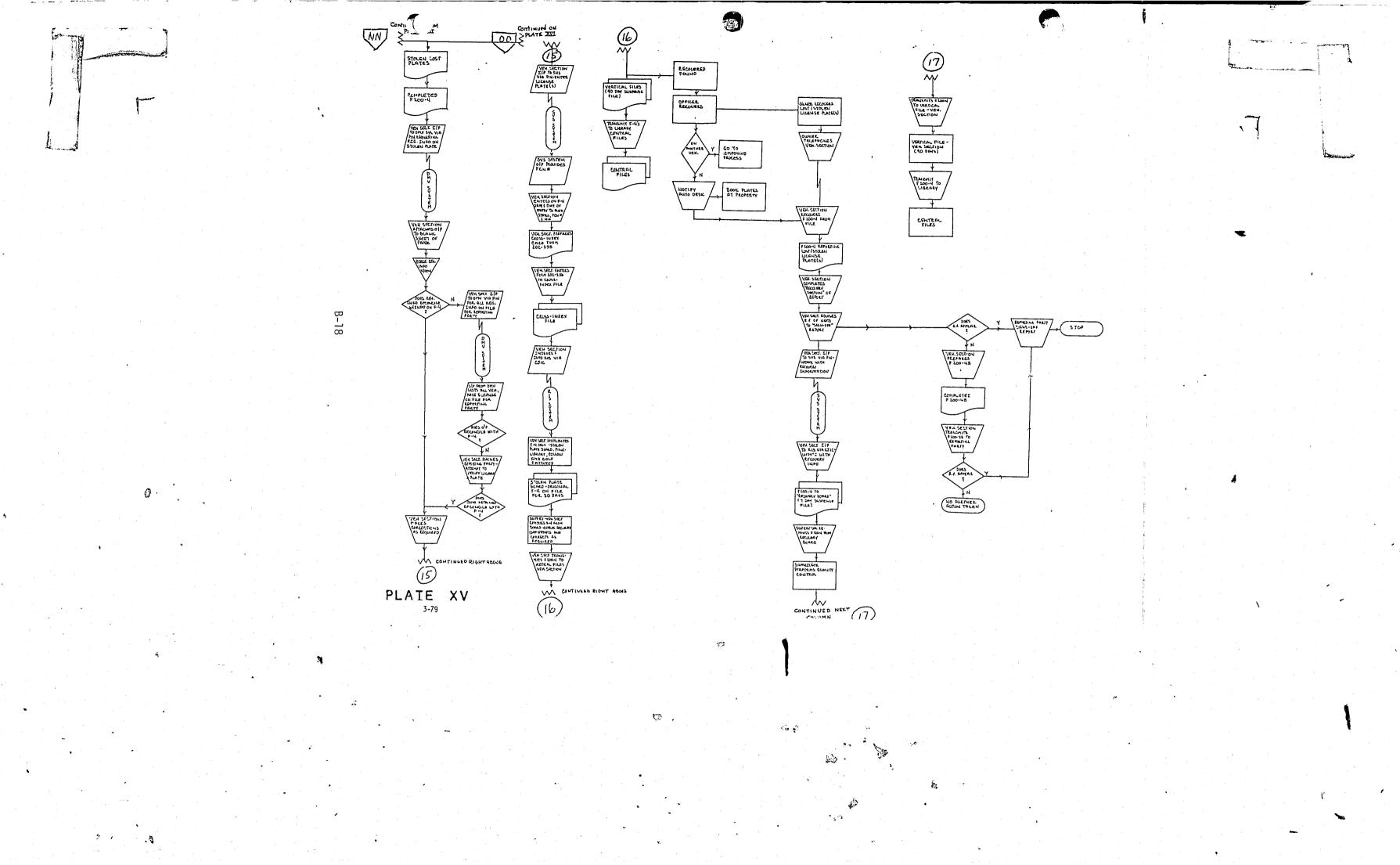
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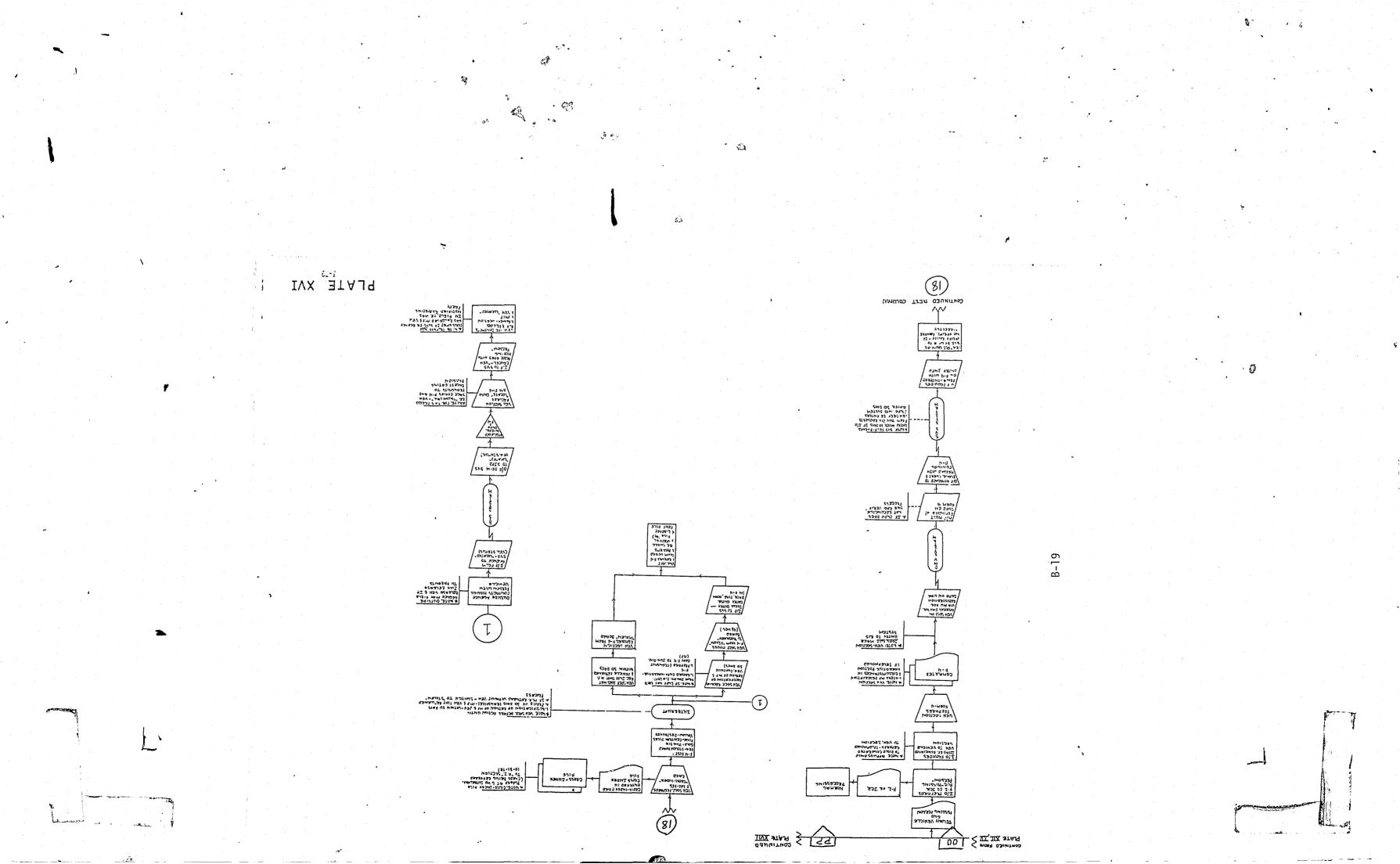
PLATE XIII 3-79

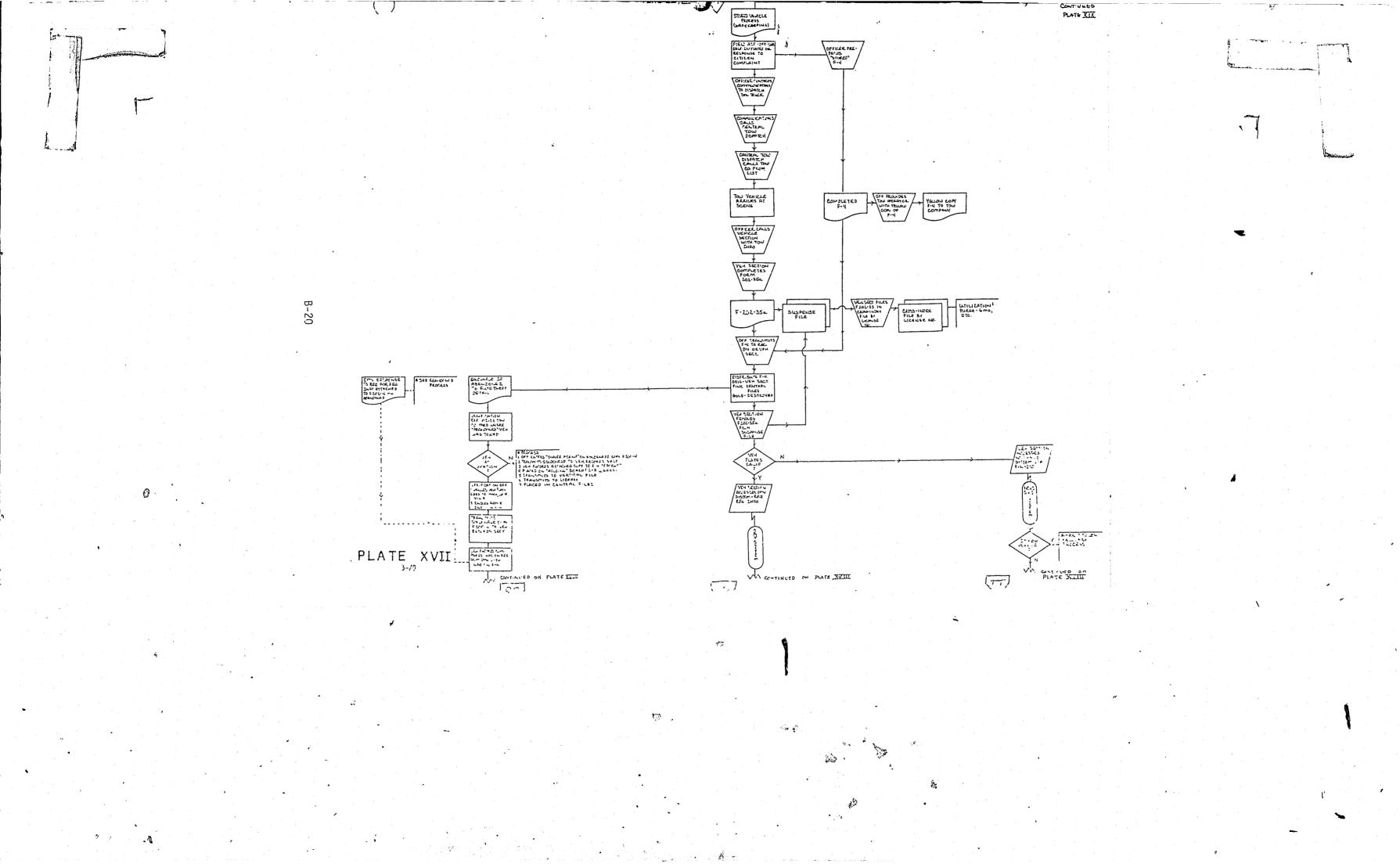
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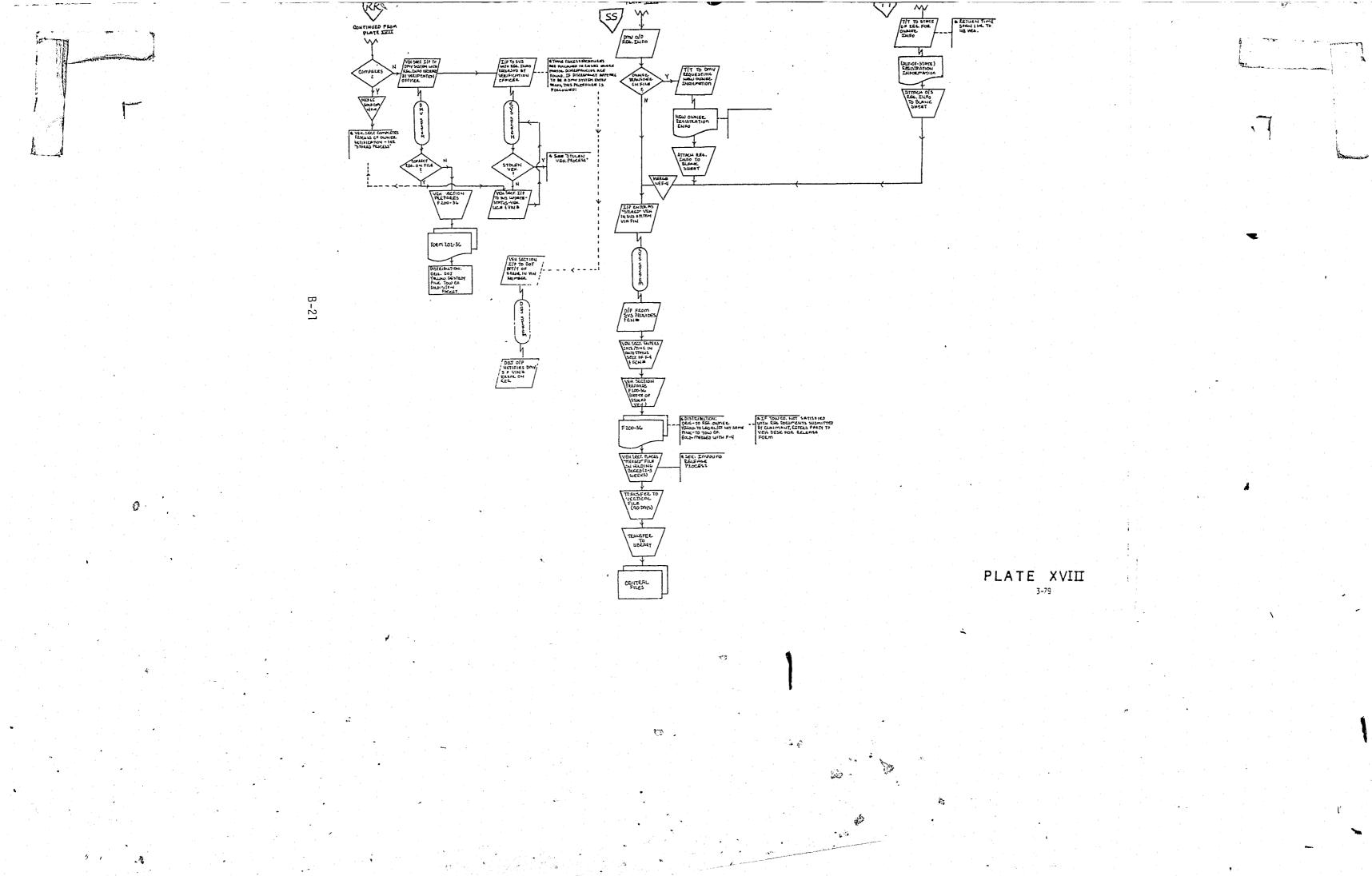


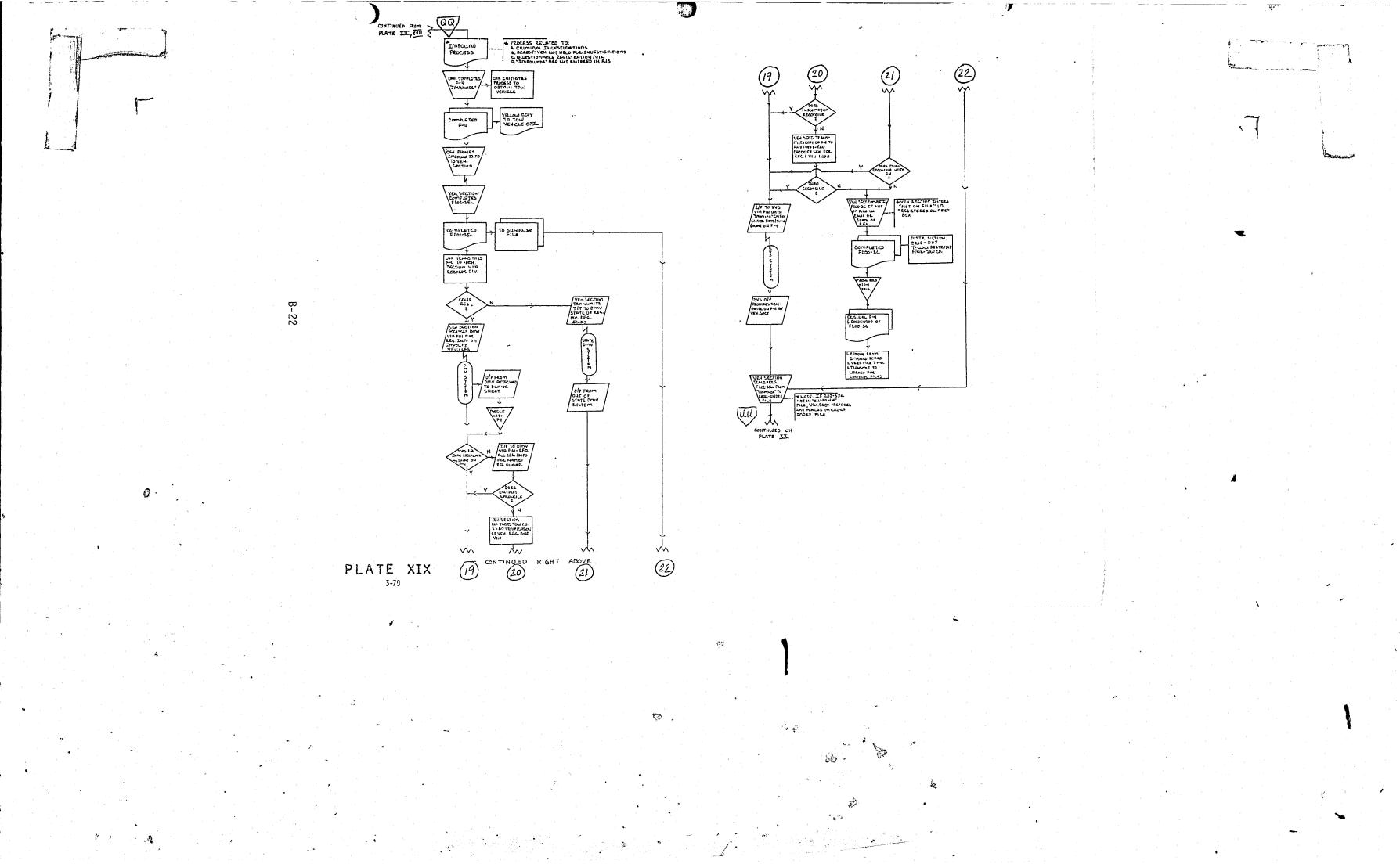


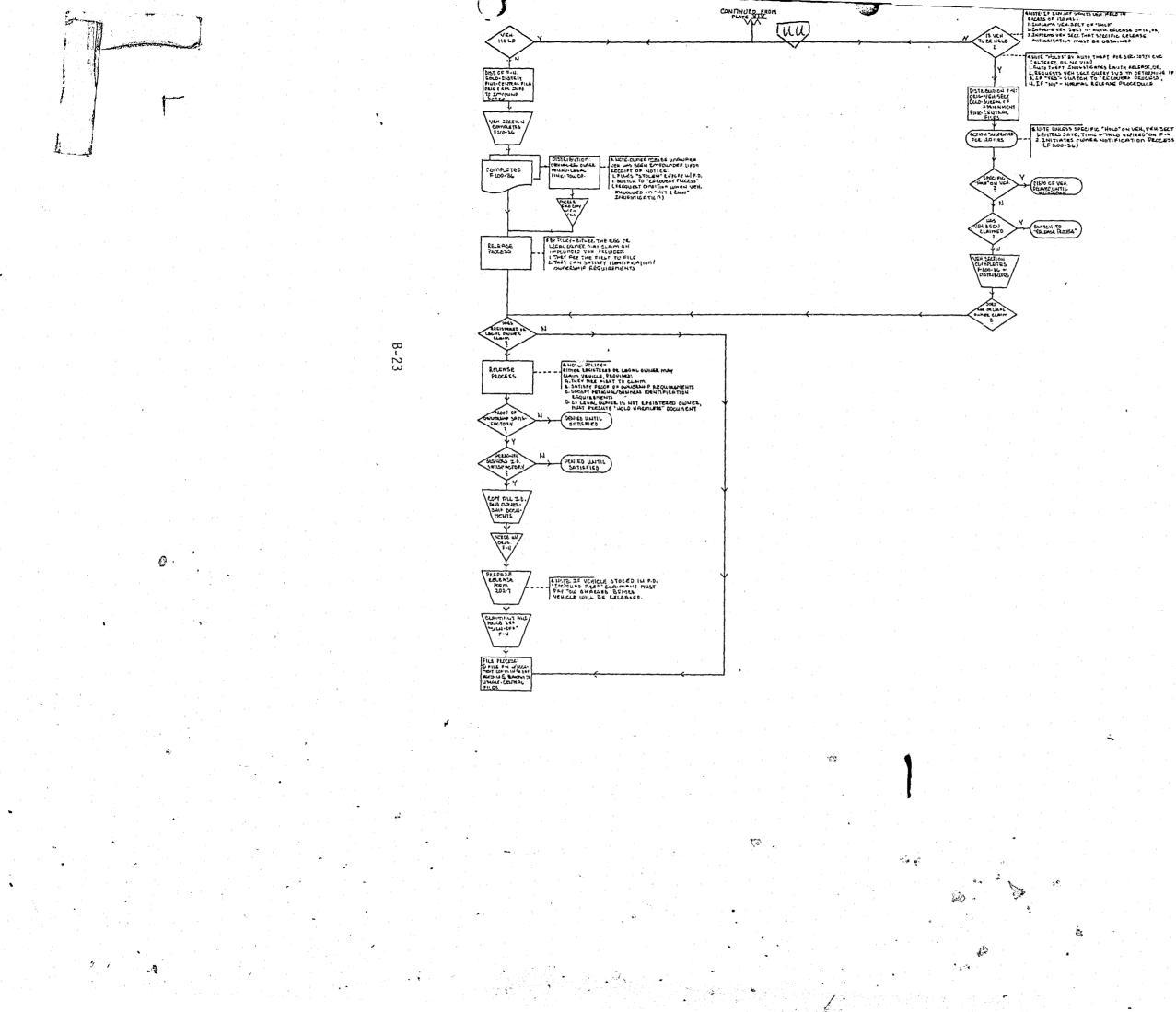












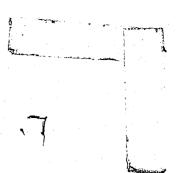
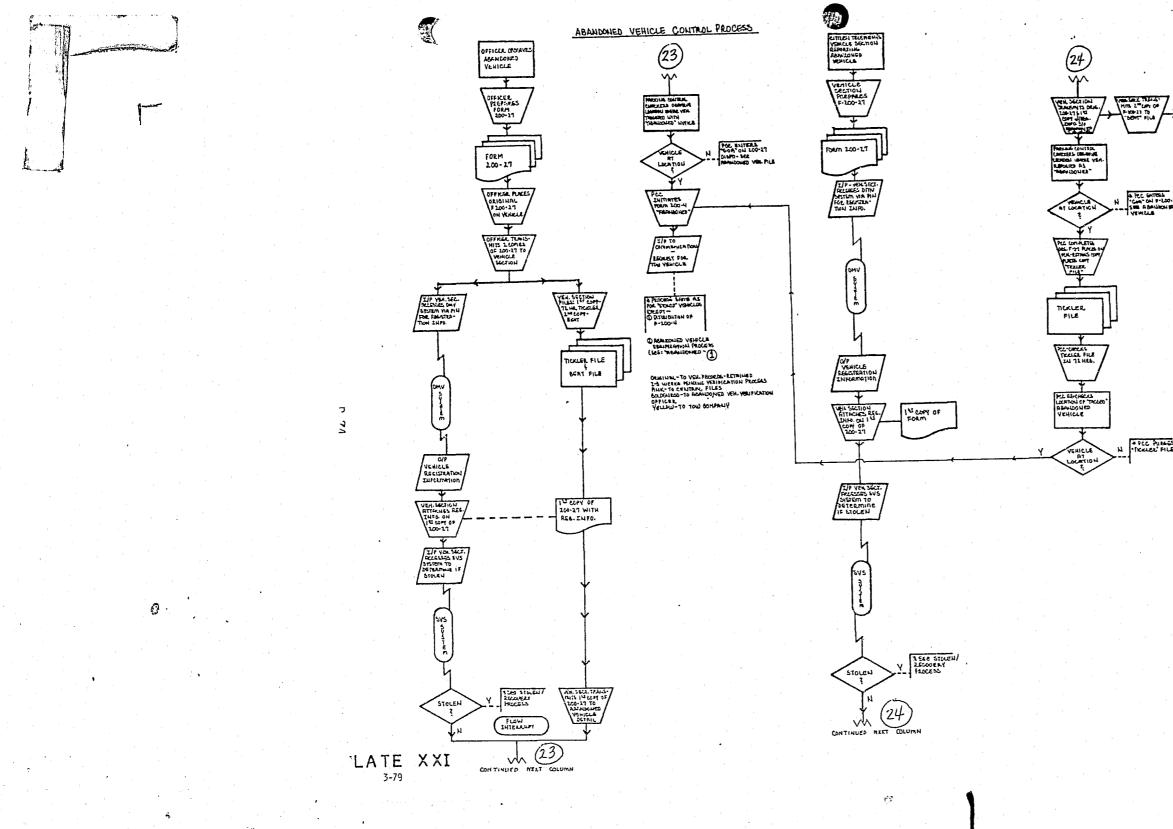


PLATE XX



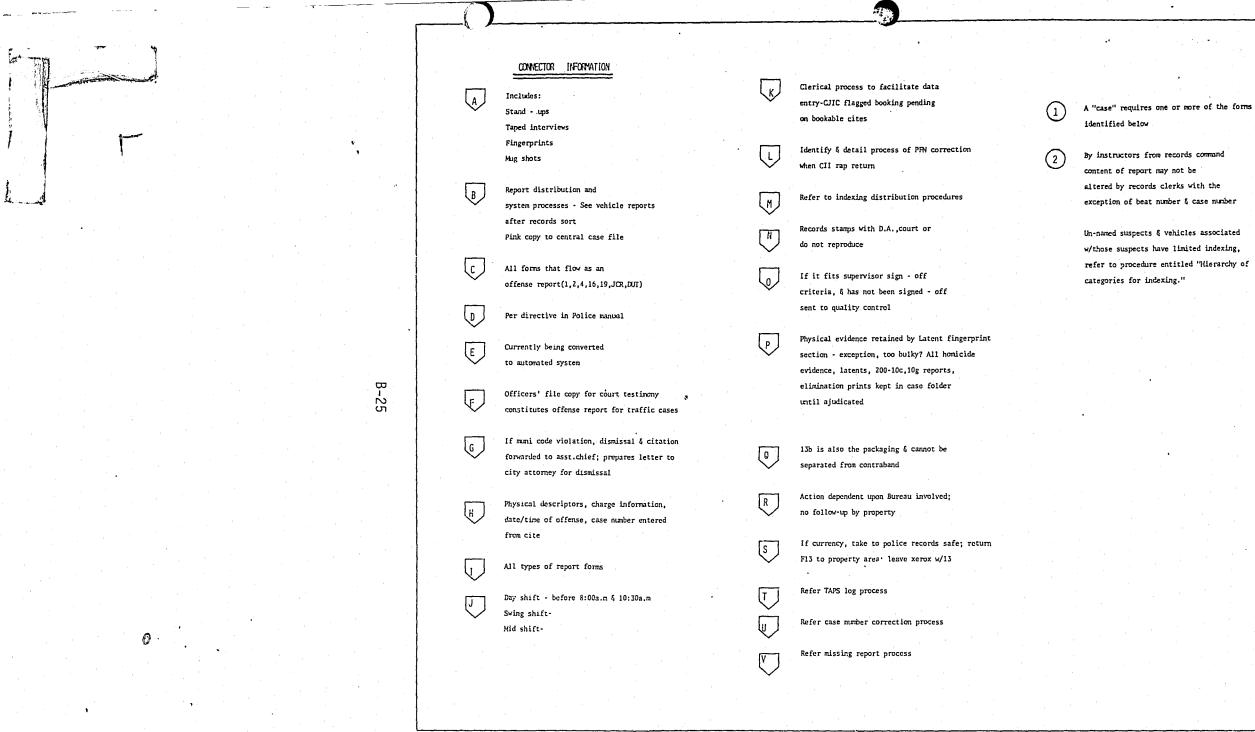
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PLATE XXII 3-79

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w/those suspects have limited indexing, refer to procedure entitled 'Hierarchy of APPENDIX C

SCHEMATIC DIAGRAMS OPERATIONS SUPPORT MODEL

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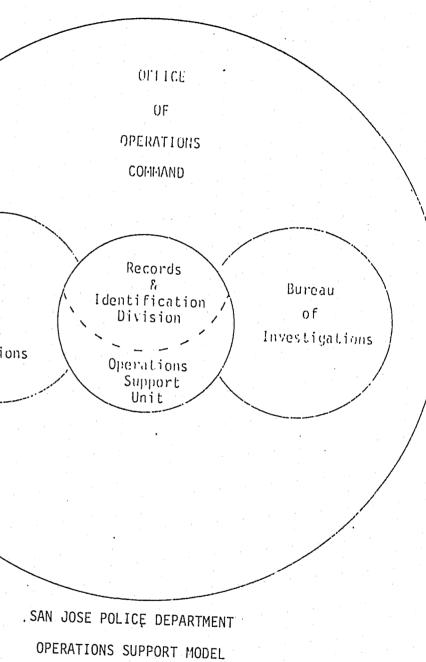
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Appendix C

Bureau of ' Field Operations

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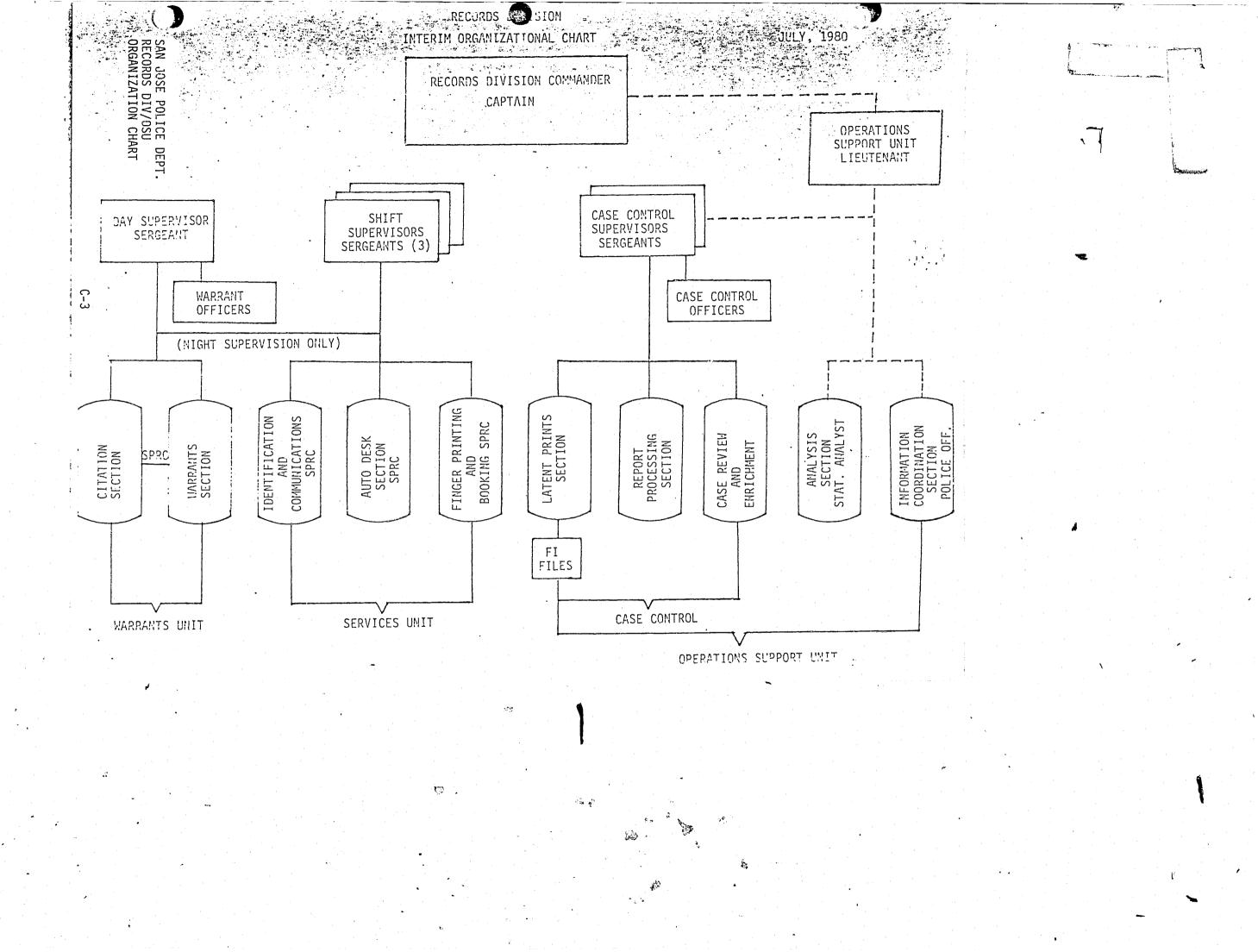


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ORGANIZATIONAL CONCEPT

The Informational Support "Link"

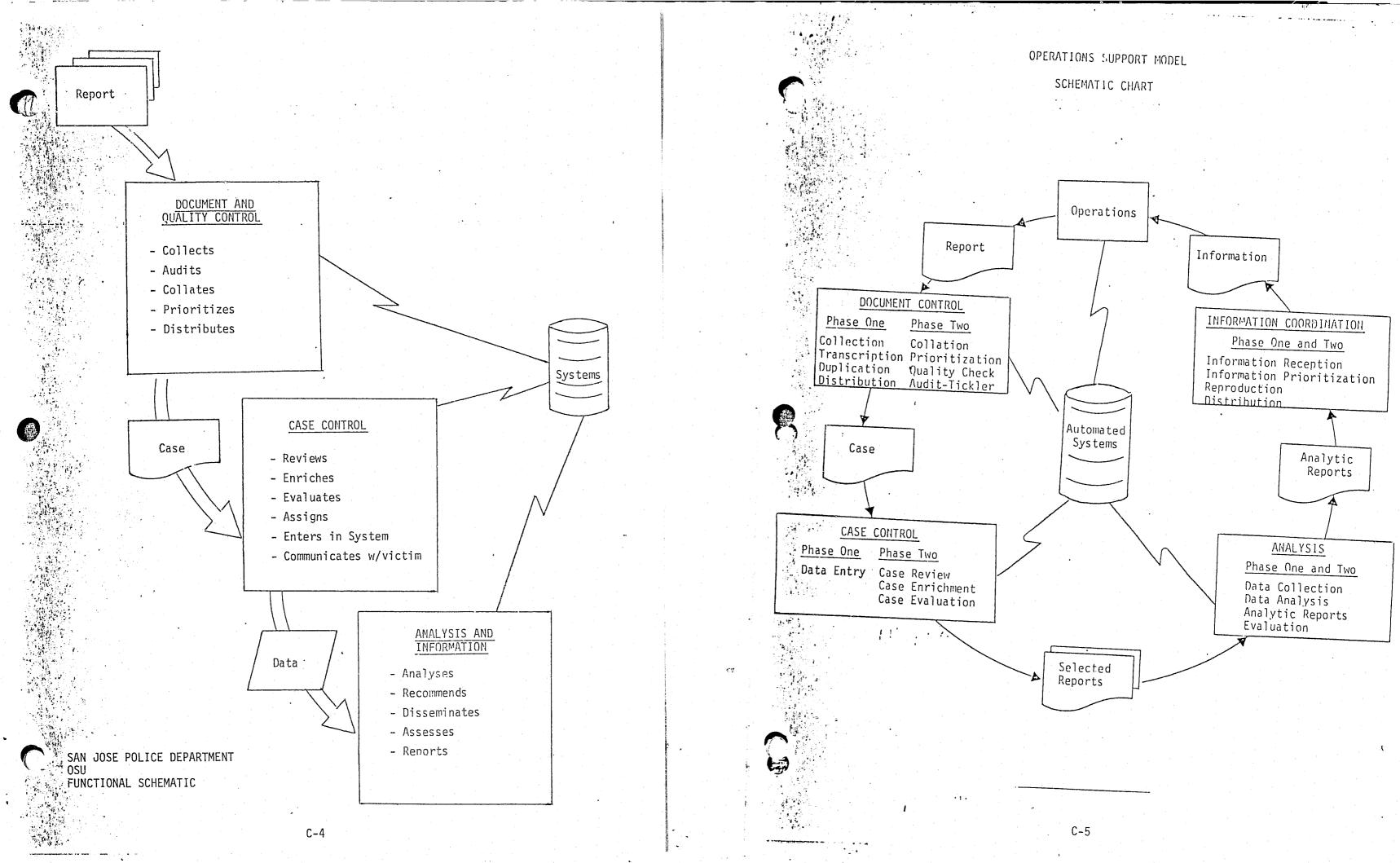
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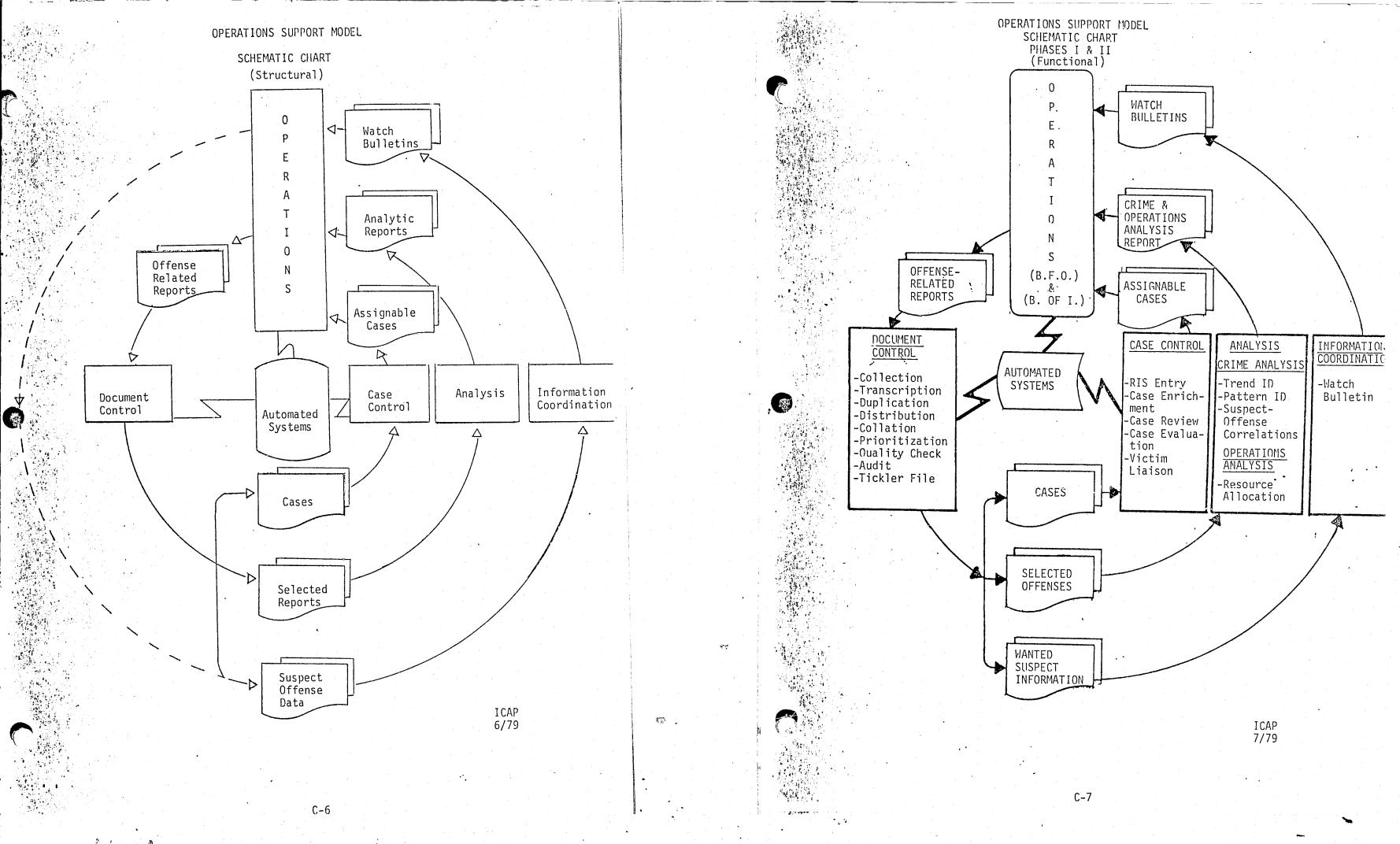
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APPENDIX D

OPERATIONS SUPPORT MODEL

FLOW CHART

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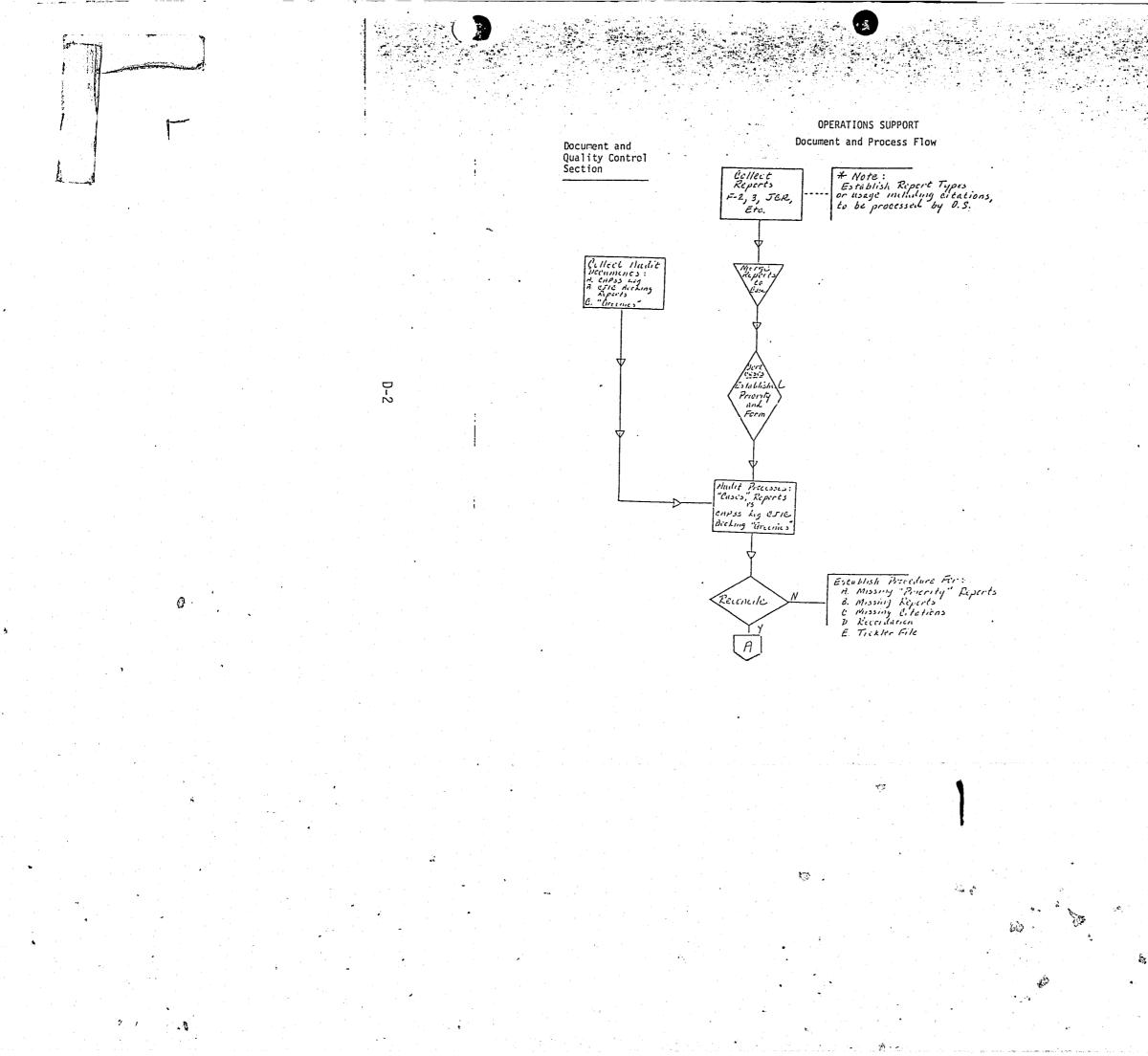
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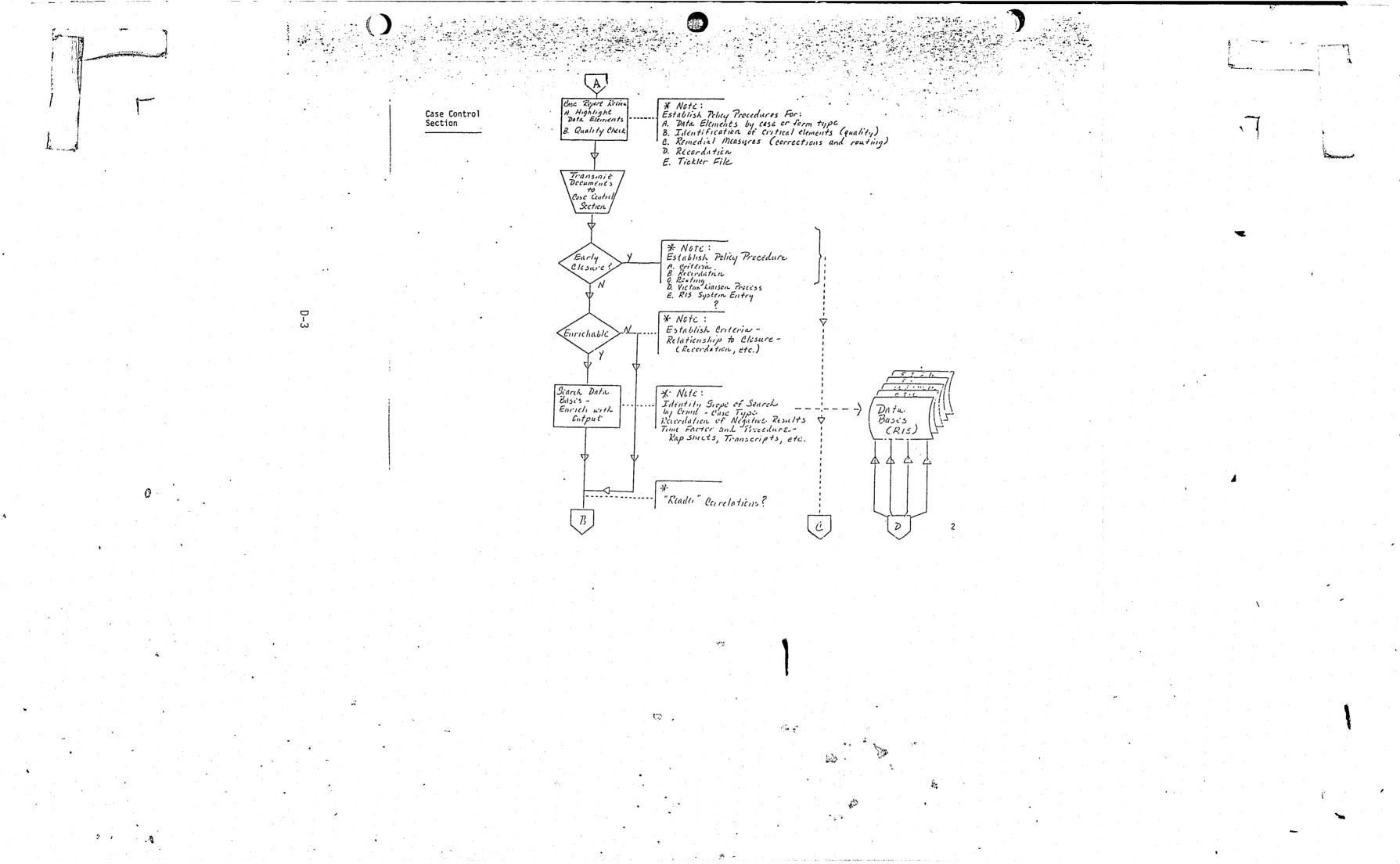
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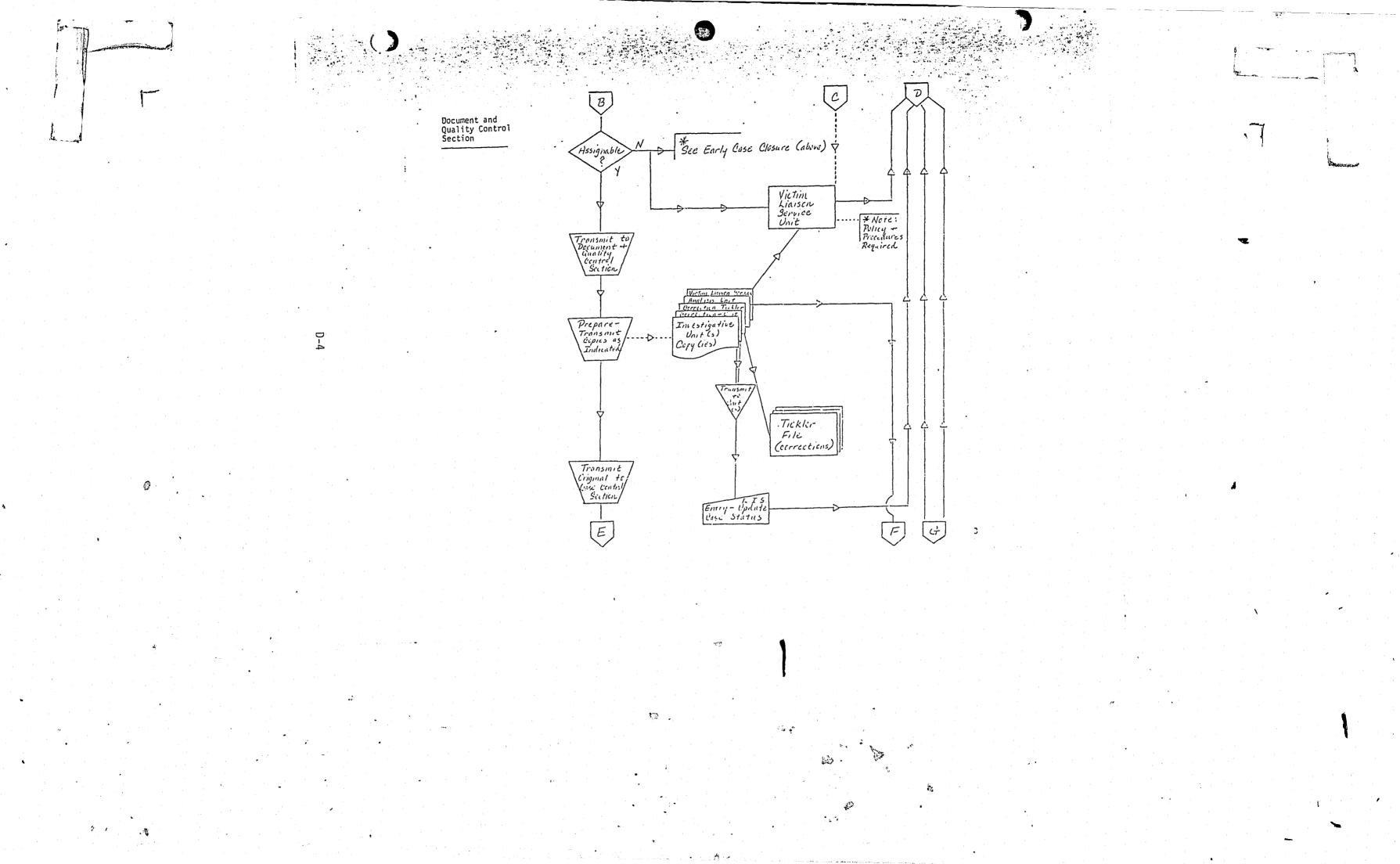
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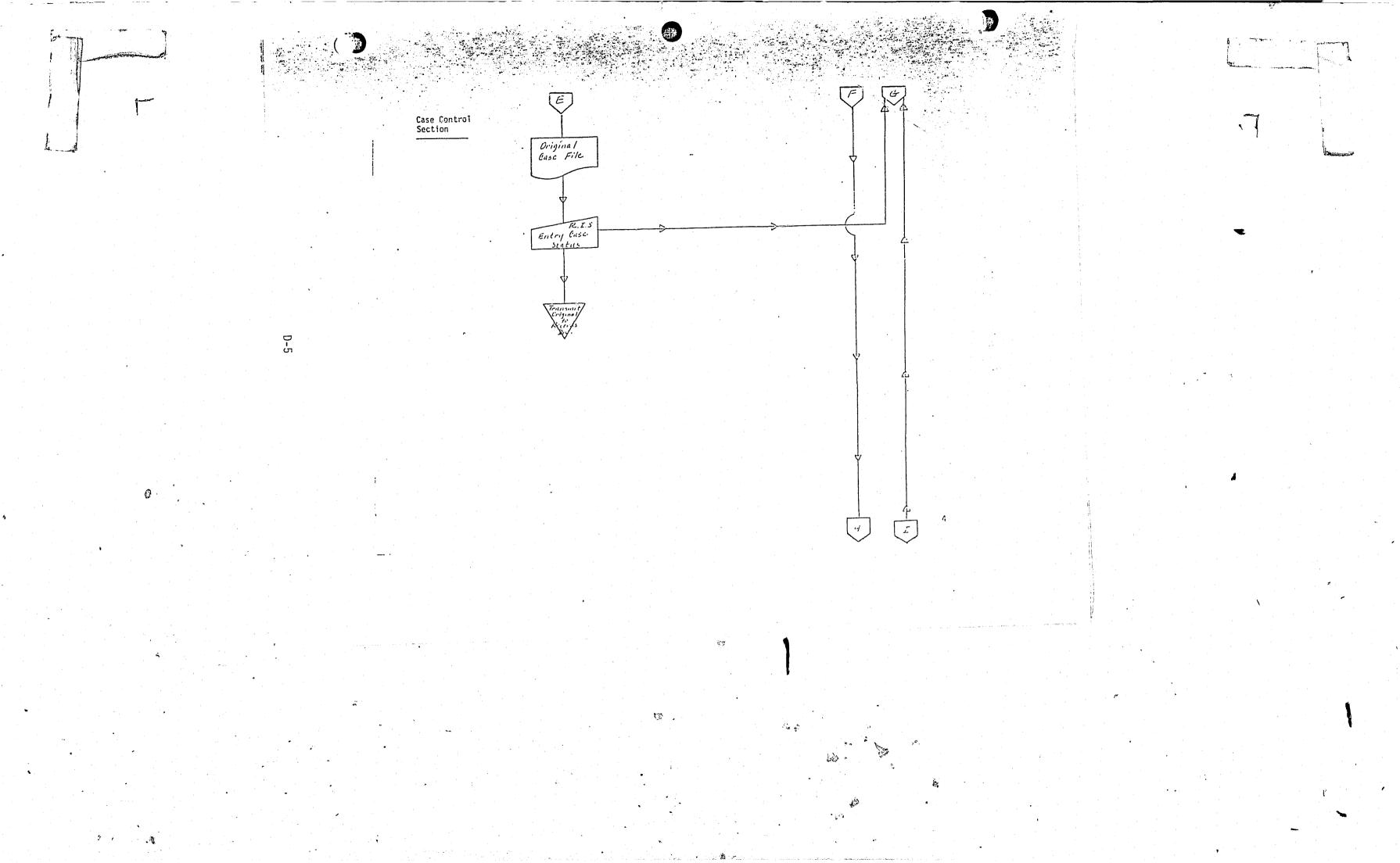


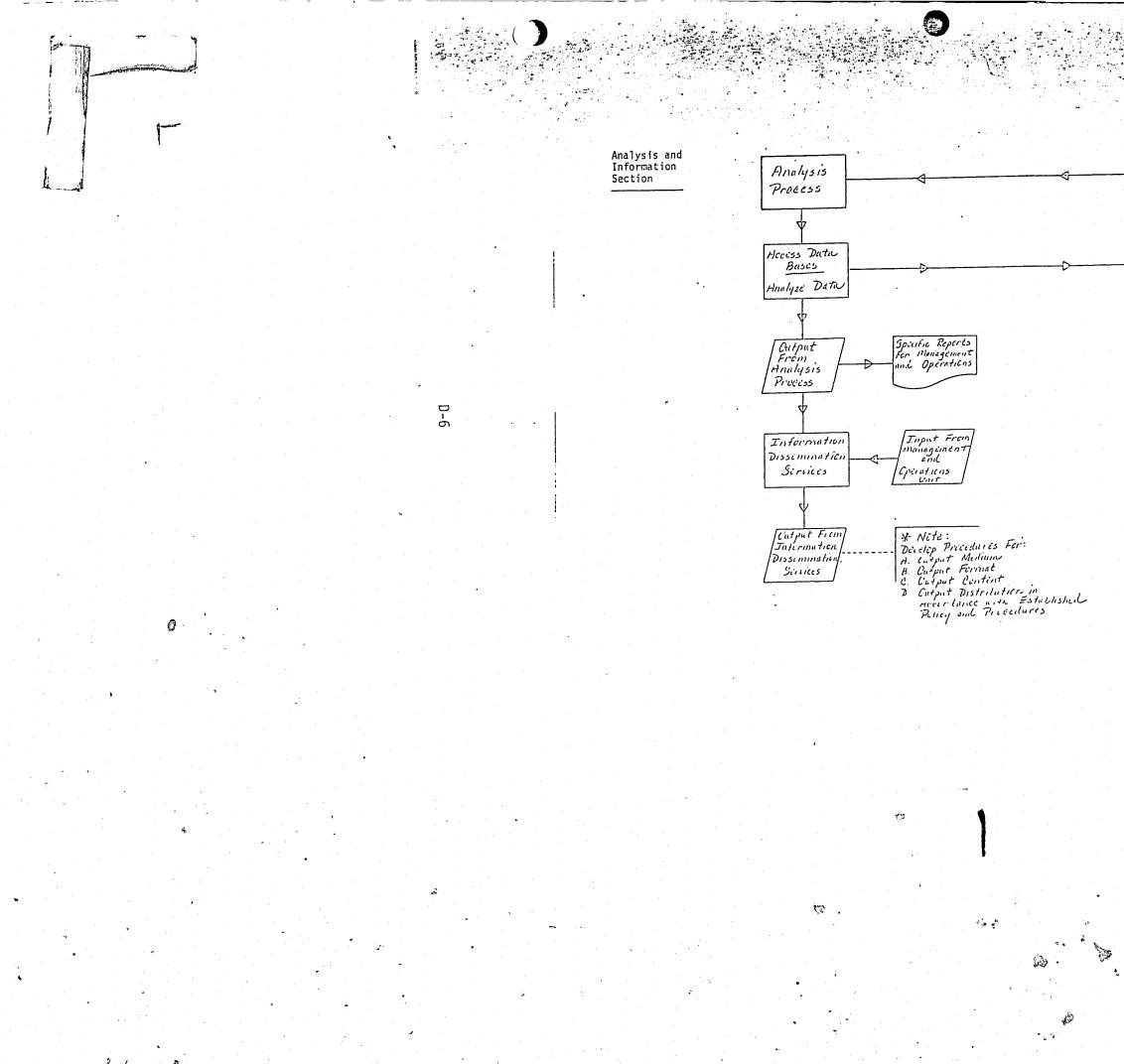




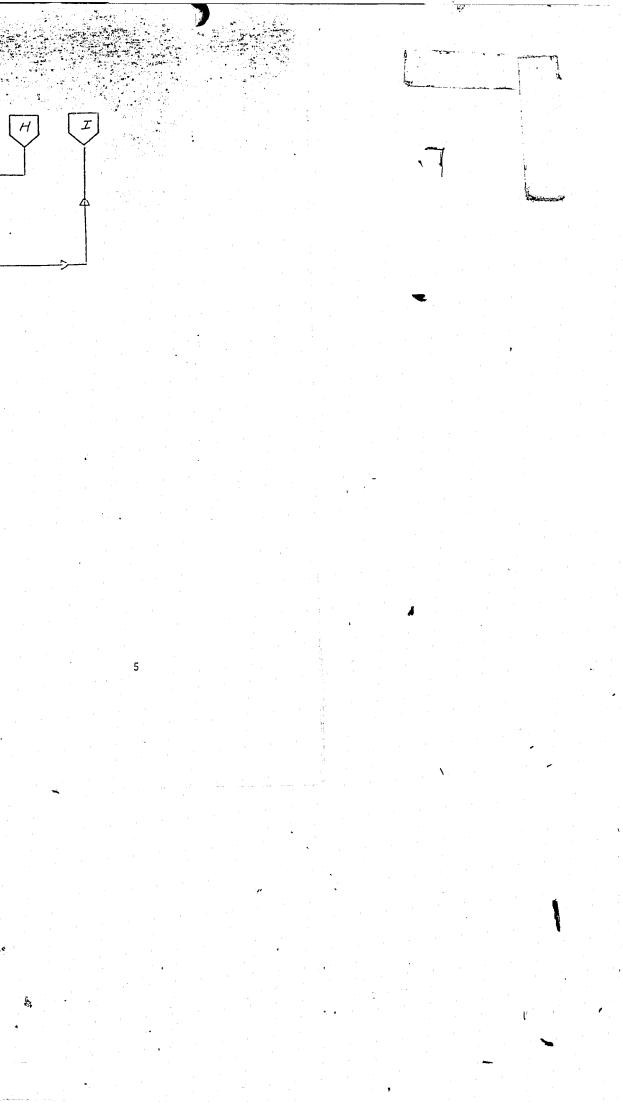








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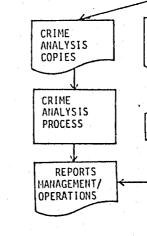




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Appendix E Operations Support Unit As Implemented



MISSING REPORT PROCEDURE

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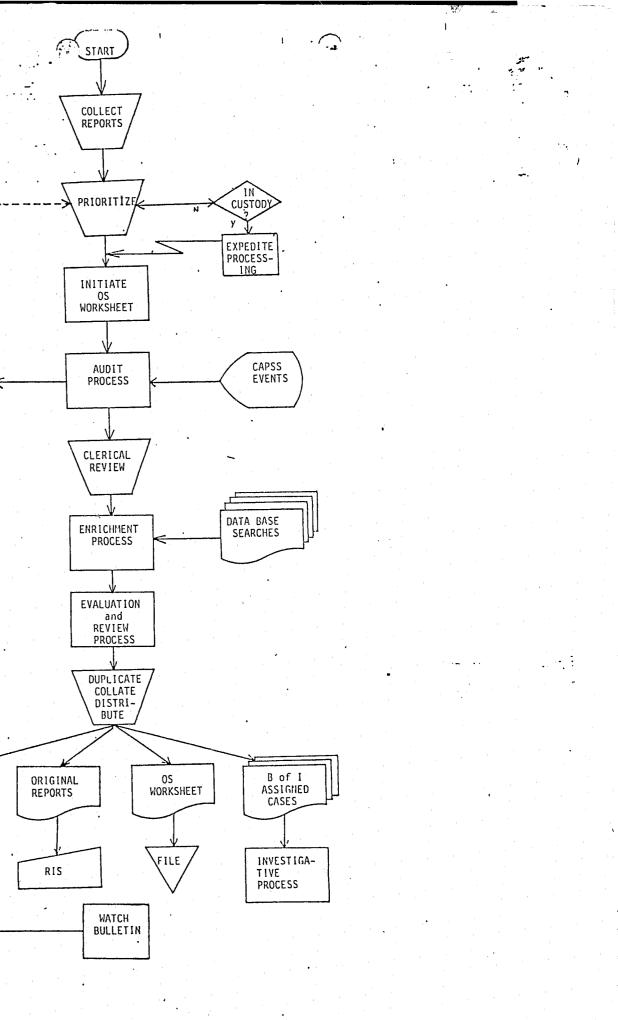
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Appendix E

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Appendix F Report Processing Studies

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ANALYTIC STUDIES OF SAN JOSE POLICE DEPARTMENT RECORDS DIVISION

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Conducted By

Integrated Criminal Apprehension Project Staff

July - September 1979

F-2

Summary of Environment Profile Study conducted in the Records and Identification Division, Operations Command, San Jose Police Department.

8/3/79

Purpose of the study: To obtain a profile of staffing, the reliability of machine support systems, and interruptions and influences that impact upon the work of the Police Records Clerks (PRC's) assigned to report processing.

This study is a part of a broad work measurement study being conducted by Operations Support staff of ICAP (Integrated Criminal Apprehension Project). Prior to initiation of the survey, supervisors on each of the three shifts were consulted and briefed on the purpose and details of the questionnaires. The survey was initiated on Thursday, July 26th, after a one-day trial run. Data was collect ne week on each shift. An extra day of data was collected for y shift as one sample day was adversely affected by an eight hour power outtage. Samples of the questionnaires circulated among supervisors and PRC's are attached to this report.

Survey Findings

Day Shift

Positions assigned per shift: 3 - 8 Average number of positions filled: 6.7 Interruptions, other duties and activities Phone calls/Average per day; Sworn: 13 calls/6 minutes per call Non-sworn: 33 calls/6 minutes per call City/Dept.: 4 calls/4 minutes per call Walk-in requests: Average 7 requests /6.6 minutes Training: One 1-hour training period reported. An average of 69.5 percent of PRC's time per day devoted to report processing.

Swing Shift

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Positions assigned per shift: none - 2. Average number of positions filled: 1 Interruptions other duties and activities

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Phone calls/Average per day Sworn: 7 calls/7 minutes per call Non-sworn: 6 calls/3 minutes per call City/Dept.: 1 call/6 minutes per call Walk-in requests: Average 2 requests/4 minutes Other duties: Relieve other stations, translating, etc., average of 2.56 hours per day per position. Training: None reported. An average of 41% of PRC's time per day devoted to report processing.

Midnight Shift

Positions assigned per shift: 5 - 8 Average number of positions filled: 6 Interruptions other duties and activities Phone calls: Average per day; Sworn: 1 call/7 minutes per call Non-sworn: 1 call/4.5 minutes per call City/Dept.: Less than 1 call/2 minutes per call Walk-in requests: 2 requests/3 minutes per call Other duties: Average of 1 hour per day per position Training: 3 training periods reported, average time 40 minutes per period. An average of 81% of PRC's time per day devoted to report processing.



Support Systems*

Percent of time non-operative in 24 hour period

Days	Copiers	CRTS	Mini-trieve	Other
1	0	.6	0	. 0
2	33.3	5.3	33.3	0
- 3	25.0	10.0	17.3	0
4	100.0	48.3	48.3	33.3
5	9.3	8.8	12.5	8.3
6	0	0	0	0
7	0	3.3	0	1.6
•				



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* Several power outtages occurred during the survey period.

Day 3, Midnight shift, 2 hours 15 minutes Day 4, Day shift, 8 hours Swing shift, 3 hours

Day 5, Day shift, 2 hours

Swing shift, 30 minutes



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Conclusions

Report processors on the day shift experienced the greatest number of interruptions from phones; an average of 50 calls per shift, also, the greatest number of walk-in requests; 7 per shift.

Midnight shift report processors were the least disturbed by interruptions; 3 phone calls per shift, less than 3 walk-in requests per shift.

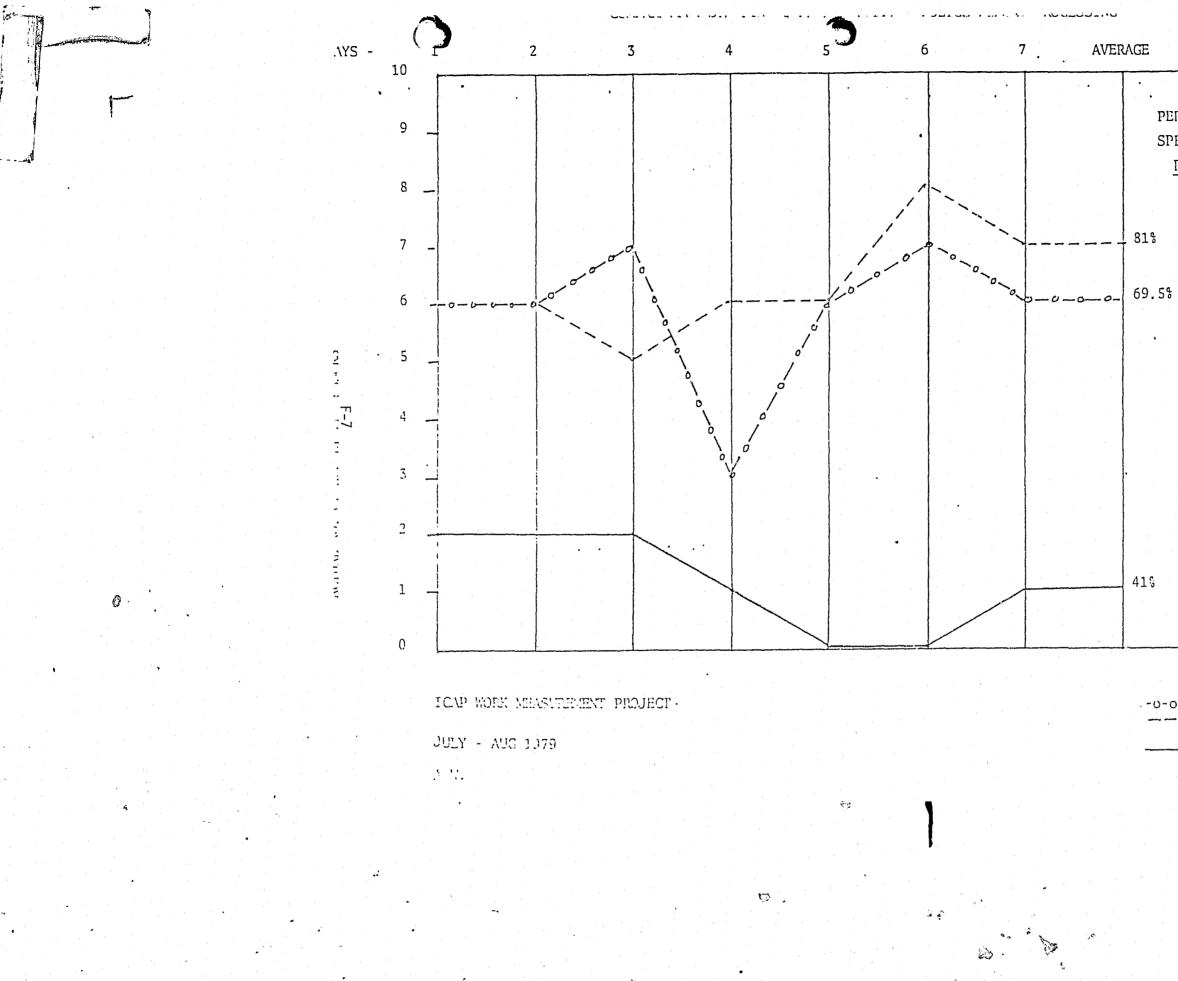
Interruptions on the swing shift had the greatest impact on report processing considering no more than two PRC's were ever assigned to this task. Phone calls averaged 9.5 per shift. Time taken up by walk-ins was nominal. Swing supervisors reported a training program is currently being conducted on this shift. Report processing is performed only if there is an overlap from days and if there is adequate personnel present.

During the test period several power outtages occurred. Supervisors report such occurrences are not unusual. In addition, any of the machines that break down on swing or midnight shift are inoperative for the balance of that 24 hour period, that is until the following day when service personnel can be called.

chments -- Super form. - Polic

Attachments - Graph: Comparitive Staffing and Productivity. - Supervisor's Records and Identification Profile Questionnaire

- Police Records Clerk Questionnaire form.



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PERCENT OF TIME SPENT ON REPORT PROCESSING

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81%

41%

-0-0-0-DAY SHIFT

SWINGS

••			•••			
						•
						•
	Records and Identification Profile		6		4	
				Police Records Cler	<u>'K</u>	
	Shift Briefing Time Duration		a na sea ann an an ann an ann ann ann ann ann			
	Special problems presented at briefing:					
				Name	Date	
	· · · · · · · · · · · · · · · · · · ·			Titule		
				Work Station	Shift	
•	WORK FORCE ASSIGNED TO REPORT PROCESSING.*				ad study please	assist us by
	NO. PRC POSITIONS ALLOCATED		A	As part of the Records processing worklos tallying and summarizing work activities	performed in ad	dition to
	NO. PRESENT THIS SHIFT:			your regular processing duties.	P0220	
	. Full Time:			your regular processing decree.	No.	Total Tim: (min.)
	Part Time:					
	Status of Support Systems:			Phone calls: Information requests		
	NO. NO. OPERATING NO. NOT-OPERATING NOT OPERATING			Sworn		
	IBM COPIERS			Non-Sworm		
j	CRTS			Inter-city/Dept. Business calls		· · · · · · · · · · · · · · · · · · ·
•	MINI-TRIEVE		•			
	OTHER SYSTEMS			Special directions from supervisors	· · · · · · · · · · · · · · · · · · ·	• • • • • • • • • • • • • • • • • • •
	Summarize any interruptions to work flow.			Training sessions	· · · · · · · · · · · · · · · · · · ·	
	NO. TOTAL TIME			Other activities: (Describe)		-
	Incoming info. request/business calls			· · · · · · · · · · · · · · · · · · ·		
	Walk-in officer info. requests					
	Individual training/spec. directions	•			۳. میں	•
	Other (DESCRIBE)					
	Describe any unusual occurrances, e.g. power outtage, bomb threat, etc.			Walk-in requests	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · ·
		• .			Thank-	you,
	Completed by:	•				tions Support Unit Staff
, · · ·	Completed by.	•			Operat	
	Name	•			-	
•	Name Title			F-	9	
	* Do not include library, micro-film processing or front counter personnel				NET CALLED AND A LEADER AND A LEADER AND AND A	مر می می می از این
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AUG. 21, 1979

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Report Processing Document Count

<u>Purpose of the study</u>: It was the purpose of this study to identify the pattern by which reports are submitted for processing and to discover how this pattern impacts on the workload of report processing personnel. This data will be used to assist in developing detailed recommendations for Phase I processing adjustments.

<u>Procedures:</u> An hourly log was kept of all reports retrieved from the BFO report depository, the front counter, the mail box, and the sworn report writing desk. The measurement period began August 13 at 0800 hours and ended August 20 at 0600 hours. Tabulation was made each hour by type of report. Two time gaps occurred, one of three hours, one of two hours when reports were not retrieved. These gaps were closed by taking a document count during the week following the study at appropriate times.

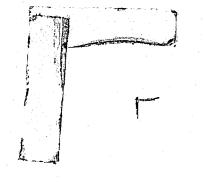
Findings

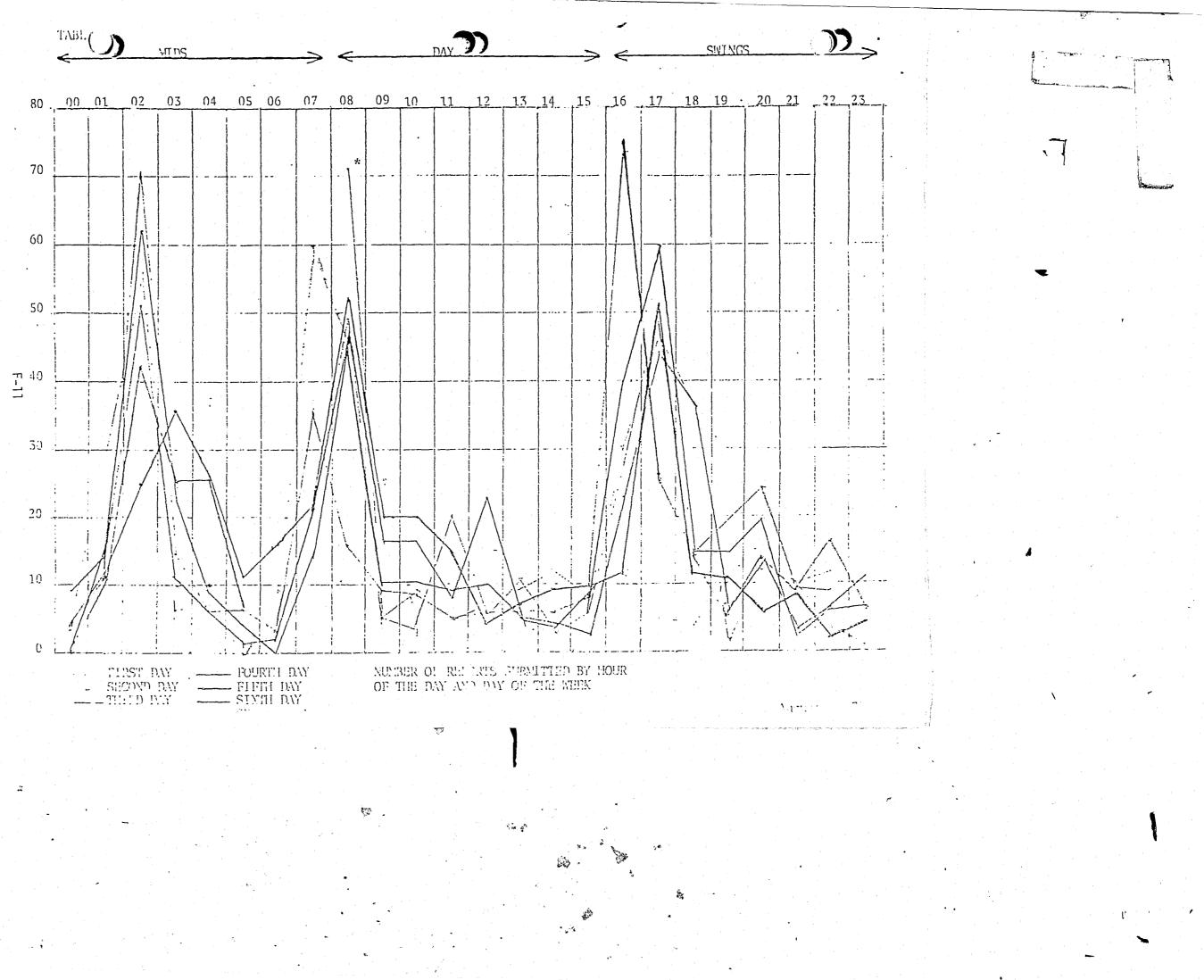
ICAP PROJECT

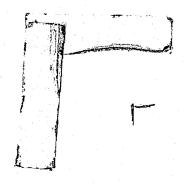
Table I shows the number of reports submitted by hour of the day and day of the week. The three shifts are also indicated to assist in illustrating relative workload. Within the period of the study, the greatest number of reports was submitted between 1500 hours and 1700 hours on the fifth day of the study, Friday. The next highest peak had occurred at 0200 hours of the same day. The high of 71 reports at 0800 on the first day of the study probably contained a number of reports accumulated in the early hours of that morning and is therefore not a truly accurate measure.

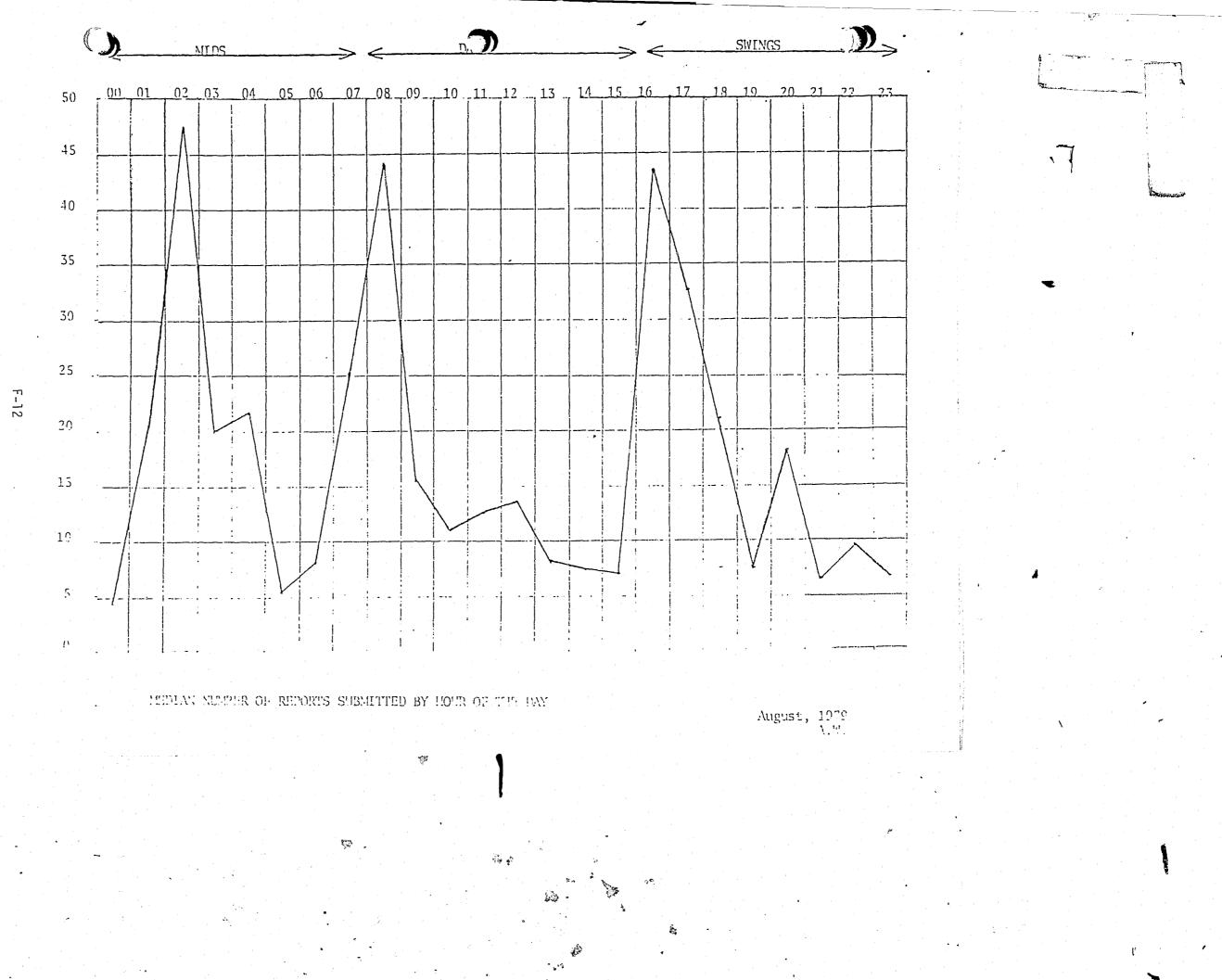
From the data it appears each shift has a distinct peak period for report retrieval; Days between 0600 and 0800, Swings between 1500 and 1700, with Mids between 0100 and 0200. This trend is more apparent in Table 2, Median Number of Reports by Time of day.











Report retrieval distribution was fairly even between shifts. Of a total of 2698 separate reports tabulated, 994 or 37 percent were retrieved on Swing shift, 957 or 35 percent were retrieved on Mid shift, leaving 747 or 28% retrieved on Day shift.

Table 3

REPORTS BY TYPE AND DAY OF THE WEEK

TYPE	M	Т	W	TH	F	S	S	TOTALS
F1	65	61	65	58	48	45	40	382
F2	143	158	130	147	119	99	108	904
F4	12	14	15	16	11	14	18	100
F16	48	46	48	36	46	60	27	311
F19	16	10	26	21	18	22	21	13.1
JCR	36	29	37	30	25	32	19	208
DUI	10	6	14	21	26	33	12	122
OTHER	65	72	54	59	92	109	86	537
	395	396	389	388	385	414	331	2698

F1 - INCIDENT REPORT - Crimes against property only

F2 - Crime Report

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F4 - Vehicle report

F16 - Traffic Collision report

F19 - Traffic Collision report, short form

JCR - Juvenile Contact Report

DUI - Driving Under the Influence

OTHER - Includes; Pre-booking forms, supplemental crime reports, supplemental traffic collision reports, Chemical analysis reports, property descriptions, etc.

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Shift Ι . II III ,

Current shift times accommodate the peak report submission times quite well. A thirty minute delay is possible between day and swing shifts in initiating processing of reports at the peak hour of 1600. An alternative schedule employing two 10-hour shifts is shown in Table 5.

As shown in Table 3 for the period studied, the greatest number of reports were submitted on Saturday. However, the variance is not marked from day to day. The median number of reports submitted per day is 373 a variance of 42^+ .

Following current report processing procedures, all reports must be stamped in, marked for routing, duplicated and copies distributed to a variety of locations depending on the crime type, indexed, stamped, and filed. Processing time varies with the skill and experience of the operator and with the amount of work interruptions. The recent Environment Profile Study, completed 8/3/79, showed most interruptions occur during the day shift.

Table 4

Comparison of Current Shift E ars with Peak Report Retrieval Time

		Peak Hours
Mids	23:30 - 7:30	0200
Days	7:30 - 16:30	0800
Swings	16:30 - 23:30	1600

Table 5

Alternative Shift Schedule

Shift

Peak hours

Ι 0700 - 1700 II 1700 - 0300 0800 and 1600 0200

This schedule provides for the major portion of report processing to be accomplished on Shift I. A carry over of some process steps would occur from the end of Shift I to the beginning of Shift II. However, most of the report "handling" could be accomplished on the 0700 - 1700 shift. Indexing would then be completed during the first part of shift II.

There are indications that the concentration of report indexing on an evening shift would result in a reduction in entry errors as well as terminal time. Given an experienced operator, reports could be indexed more quickly. Both the Environment Profile Study and the Terminal Response Time study support these contentions. Reports with high priority would be fully processed at the time received. All others would be indexed in accordance with a priority procedure, to be established, but with the bulk of reports assigned to the evening hours.

Under this alternative shift schedule, no civilian personnel would be present during the hours 0300 - 0700. Experience and the current study show these are the least active hours for report submission.

The impact of an extended shift time on productivity would need to be assessed along with the apparent merits of this plan. Some of the tasks related to report processing require intensive attention to detail and productivity could be affected by longer hours. Utilization of part time employees could be a solution to a fatigue problem. However, this



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too would need to be considered for possible offects on supervisory and administrative tasks and implications for group morale both positive DOCUMENT COUNT

Purpose: To count when and how many reports are turned in for Records Processing.

Frequency: This count will be done hourly during each shift for a seven day period.

Directions:

- 1. Pick up all reports at the following locations:
 - a) BFO lock box
 - b) Records Report Writing Room
 - c) Front Desk
 - d) Records Mail Box
- 2. Bring the reports to Records.
- 3. Count the number of each kind of report (for example, how many JCR's were in the pile of reports?)
- 4. Write the total for each type of report on the tally sheet.
- 5. If there were no reports of a particular type, put a zero (0) on the tally sheet.
- 6. If there were no reports on any of the four locations, put zeros in each space on the tally sheet.
- 7. Stack the reports on the indexer's desk.
- 8. At the end of shift, put the tally sheets back in the folder for the next shift to use.

Thanks for your help. ICAP Staff x4106



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Analysis of Report Processing Procedures in the Records Division, San Jose Police Department.

Introduction. This study was undertaken in support of a general plan for the development and implementation by the ICAP Project of an Operations Support Unit, in the Police Records Division. Early in the development of the project it was recognized that in order for management decision making, impacting all areas of police operations, to be effective and efficient it must be based on the consistent and timely availability of quality information. It has been generally acknowledged that information now available for crime and operations analysis is often inadequate, of mediocre if not poor quality, and not always timely. A principal objective of Phase I of the project is to identify those conditions that contribute to the inadequacy and poor quality of information available to managers as well as to line personnel in the Department. Based on this and related studies performed by the ICAP staff, Phase II of the project will be concerned with resolution of these inadequacies and the development of a reliable and timely information system with an emphasis on quality reporting.

Purpose of the Study. This study had a very specific purpose; to identify in detail the current processes applied to the retrieval, distribution, automated system entry, updating and quality check of all reports submitted to the Records Division for processing and to determine the approximate time required to perform each task. In concert with other studies recently completed by the ICAP staff, it is expected this report will assist in determining optimal staffing requirements, task and equipment allocation, and serve as a base for future modification and improvement in the methods now employed in processing reports. In anticipation of a Case Control and Analysis Section in Phase II of the ICAP Project, a thorough understanding of report processing methodology is considered imperative by the Operations Support staff.

Design of the Study. Based on a comprehensive flow chart developed by ICAP a lysts during the past year, a detailed outline of processing tasks was developed. The outline was divided into sections describing the normal processing of each type of report, steps in the quality control of each type of report, related activities such as transcribing, indexing,

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9/12/79

filing, making corrections and additions, and the handling of photos and other miscellaneous data. Two Operations Support Analysts had principal responsibility for the study. Time and motion measurements were performed for each processing step described in the outline. These measurements were made with the cooperation of Police Records Clerks and their Supervisors on each of the three shifts; Day, Swing, and Mids. Personnel participating in these task measurement studies varied from individuals with long years of experience to others who had recently completed training. It was anticipated this cross section approach to the selection of subjects would give a realistic measure of average times required to perform specific tasks. Due to staffing shortages plaguing the Police Records Division currently, analysts in actuality were limited to measuring performance of the incumbents in particular positions regardless of their level of expertise.

Measurements were made over approximately a month. Critical measurements were compared and evaluated for reliability by the two analysts and the final few days of the measurement phase were spent in verifying results as being reasonable and accurate within the time and staffing constraints of the study.

Results of the time and motion measurements were compiled on the data collection form described previously and are located in the Appendix of this report. Data usually recorded in seconds was translated to minutes required per task, per twenty-four hour period based on calculated averages of reports submitted. A summary report was developed highlighting principal tasks, a narrative description of the task, and time in minutes required for completion. This summary may also be found in the Appendix. General task groupings to be found in the summary are;

- 1) Processing of Reports with investigative priority.
- 2) Normal report processing and distribution by type.
- 3) Quality control of reports.
- 4) All other tasks associated with report processing.

Total hours were computed for each of the above tasks, followed a grand total for all report processing activities measured in this study.

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Findings and Recommendations

At the time this study was conducted essentially the same staffing was observed as during the Environment Profile study, (8/3/79). In this study the average number of positions filled on each shift was; Days 6.7, Swing 1, Mids 6. The Document Count study completed in mid-August indicated there are three peak periods in the 24-hour day for report submission, 0800, 1600 and 0200 hours. Median number of reports received respectively was 44, 45, and 48 with a secondary influx of one-half to one-third this number occurring at 1200, 2000 and 0400 hours. If, as observed in this study, no report processing is being done on the 1630 to 2330 shift, the burden of processing all reports submitted in the late afternoon and evening hours, which would routinely be processed on swing, is held over for the next shift, Mids, possibly with a progressive delay extending on to the day shift.

The day shift, subjected by far to the most interruptions of reutine processing duties as currently structured, is not well equipped to clear up this stack of accumulated reports. The document study indicated that current shift times are quite well adapted to peak report retrieval times if all shifts are adequately staffed. It is therefore recommended that through the recruitment of new Police Records Clerks and the shift transfer of incumbent personnel a balance be maintained on all shifts.

An alternative schedule was offered for consideration in the Document study employing two 10-hour shifts and still accommodating the peak report submission times noted. This schedule provides for shifts beginning at 0700 hours and 1700 hours with no civilian personnel present from 0300 to 0700 hours. Under this plan it is suggested the majority of report indexing would be performed on the second shift taking into account the high incidence of interruptions on days. However, daytime interruptions of routine processing should not be regarded as irremediable. Responsibility for screening incoming calls and handling walk-in officer requests could be assigned to one clerk as nis/her primary task. Presently no clear-cut procedures for handling calls and requests appears to be followed.

Choice between the retention of the eight-hour shift or the adoption of the two shift plan should be based on productivity and efficiency considerations such as thich would provide for optimum supervisory control, optimum utilization and performance of terminals and other support systems, and effect on employee morale. Use of part-time employees might also be considered as a possible means to increased flexibility in the implementation of any schedule. An analysis of police report processing procedures revealed the following time averages per shift devoted to the major tasks performed.

1) Forty-five minutes is devoted to stamping reports.

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- All Reports are time and date stamped in as soon as retrieved.
- Approximately 22 percent of crime reports are stamped "Court" and "D. A.".
- o All indexed reports are stamped "Indexed" and initialed as this process is completed.
- o All reports are time and date stamped out.
- 2) Thirty-five minutes is devoted to sorting reports.
 - Reports are first sorted to determine investigative priority.
 - o After reports are marked and copied, copies are sorted for distribution.
 - The Records copy is arranged in case number order prior to indexing and filing.
- 3) Twenty-five minutes is spent marking reports for distribution.
- One hour is required to distribute reports to various pick-up stations and filing locations
- 5) One hour and twenty-five minutes is spent making copies of reports for distribution.
- 6) Six hours is spent at a computer terminal, indexing, making corrections and additions, querying the Driver's License system, etc.

These averages were computed from data collected during the course of this study. Total time required to perform each task was divided equally between the three shifts. Due to understaffing problems these time estimates do not accurately reflect current operations. As previously mentioned little or no report processing is being accomplished on the swing shift.

Processing costs have been estimated in previous staff reports, most recently in Captain Horton's response, (4-20-79), to the Assistant Chief's directive to a group of Captains and Lieutenants to identify problems

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estimates were reported crime reporting forms. 1) A conservative \$7.00 x 100,00 \$700,000 per y 2) Records proces index, distrib report. This Vehicle Records by the time a report lead cost of \$1,200,000 a yead with due regard to the s

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With due regard to the serious understaffing problem now existing in Records, the feasibility of staffing and procedural modifications cannot be realistically anticipated in the very near future. However, the continued drain on the Department's fiscal resources cannot be tolerated indefinitely either.

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and recommend solutions in the Records Division. The following cost estimates were reported in connection with Offense Report and related crime reporting forms.

 A conservative estimate for preparation is 30 minutes or \$7.00 x 100,000 (the number of reports submitted in one year) = \$700,000 per year.
 Poconda

2) Records processing (at present staffing level) to collect, duplicate, index, distribute, file, etc., costs \$500,000 per year or \$5.00 a report. This does not include reproduction costs - 5¢ a page or Vehicle Records staff.

By the time a report leaves Records, it has already cost \$12.00 or a total cost of \$1,200,000 a year.

NCIPAL TASK	NARRATIVE	TIME CONSON (MUNUTES)	
· · · · · · · · · · · · · · · · · · ·		Per Shift	24 Hou Total
RETRIEVE ALL REPORTS	Reports are retrieved 3 times per shift on each of 3 shifts.	15.0	45.0
	All Reports are then time and date stamped	8.8	26.5
Determine Jf REPORTS HAVE INVESTIGATIVE PRIORITY.	Reports are sorted to determine priority	2.2	6.5
PROCESS HIGI-PRIORITY REPORTS	Priority reports are then marked for distribution, copied, stamped Court and D.A. time-stamped out as completed, and distributed	20.7	62.0
	TOTAL		
		46.7	149.0
PROCESS REMAINING REPORTS BY TYPE:	F-1 form is burst; White is Records copy, Pink copy to BFO. If crime type is malicious mischief		
FORM 1 INCIDENT REPORT	the pink (Beat) copy is destroyed If another crime type, the form is marked for	2.3	6.9
	distribution, copied and distributed	4.7	16.0
	TOTAL	7.3	22.9
FORM-2 CRIME REPORT	Form 2 is burst, carbon and supplemental page removed (if blank)	5.5	16.5
	Forms are marked for distribution, copied, stamped for court and D.A. and distributed	55.0	165.0
>	TOFAL.	60.5	181.5

* TIMES BASED ON CALCULATED AVERAGES OF REPORTS SUBMITTED.

(JCR) JUVENILE CONTACT REPORT 4 (DUI) IVING UNDER THE INFLUENCE 1 Form 4, Vehicle Τı Report Form Form 19 Collision Å1 Information Notice ar Z

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PRINCIPAL TASK

* TIMES BASED ON CALCULATE

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NARRATIATE	TIME CON- (MINUTE	SULAED (S) *
	Per Shift	24 Hor Tota
If crime type is 601 all copies are transmitted to the S. C. County Juvenile Probation Dept. (JPD).		
If another type crime, the original is retained for Records, copy is transmitted to JPD.	12.3 2.5	36.9
TOTAL		
	14.8	4.1.1
All reports are copied DL system is queried for driving history. System output copied or second copy obtained from system.	.3	1.0
Chemical Analysis form copied All forms merged (DUI, CLETS, Chemical Analysis) with Pre-Booking report and Transmitted to Accident Investigation Bureau (AIB)	15.0 2.5 3.2	45.0 7.5 9.5
TOTAL		2.5
	21.0	63.0
Transmitted twice per shift to Auto Desk	3.0	9.0
All copies marked for distribution, copied and distributed per procedures	5,3	15.8
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	5.5	15.8

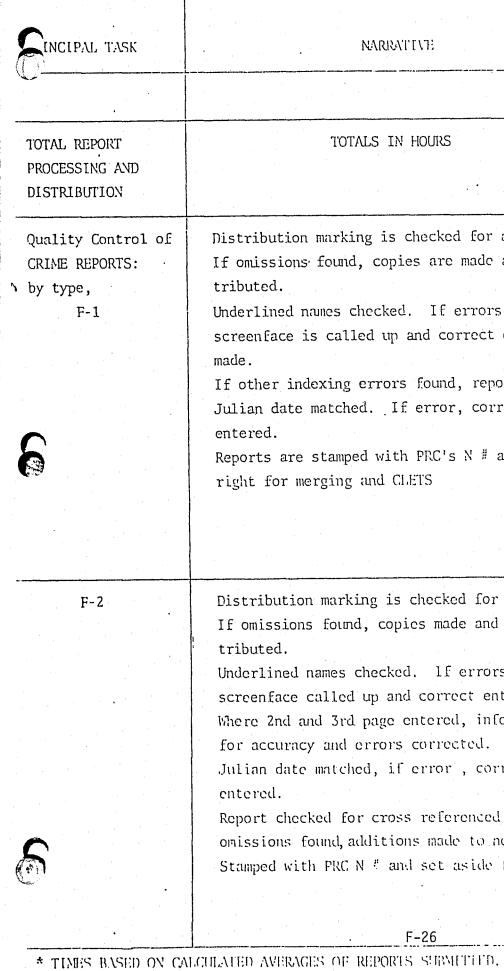
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INCIPAL TASK	NARRATIVI	TIME CONSU (MINUTES	
		Per Shift	24 Hour Total
Form 16 Traffic Collision Report	All copies marked for distribution, copies made (3/5 in reduced size), then distributed per procedures.	18.0	54.0
	TOTAL		
		18.0	54.0
Further Processing;		· · · · · · · · · · · · · · · · · · ·	
All reports	Prior to distribution all F-1, F-2, 16's and JCR's		
	are date and time stamped	6.1	18.
	Each group of reports processed is put in case		
	number order for Quality Control review and filing.	4.2	L.'.
	TOTAL		
		10.7	7.7
		10.3	30.
Reports entered in	Reports entered by type		
Records Index	F-1	60.0	120.0
System, RIS.	F-2	102.6	308.0
	16	3.2.6	98.
	DUI	9.8	29.5
•	JCR	20.7	63.1
· · · · · · · · · · · ·	Estimated terminal delay	7.6	22.
	Estimated 10% re-entry	2.0	6.0
	TOTAL		
		215.5	646.
Final Processing	All names are underlined on report, stamped		•
after RIS Entry	"Indexed" and initialed by PRC.	11.1	34.
	Reports are then sorted into accident, non		
	accident and distributed to the appropriate		
7	quality Control Desk.	1.3	15.
		1 • • • •	
	TOTAL		
	F-25	15.7	1 12.1

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ΝΙΑ Ο Ο ΥΥΓΥΤΥ	TIME C	MCEPO	1:15
NARRATIEVTE	(MLM		
	Per Shi	. [.1.	24 Hour Total
TOTALS IN HOURS	6111 58N	1in	20Hr 55N
			r -
Distribution marking is checked for accuracy.			
If omissions found, copies are made and dis-			
tributed.	2.	1	5.3
Underlined names checked. If errors found,			r.
screenface is called up and correct entry			
made.	3.	1	9.3
If other indexing errors found, report is re-index			6.
	.eu. 2.		1
Julian date matched. If error, correct date is		!	
Julian date matched. If error, correct date is entered.	1.	!	
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up-	1.	3	
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up-		3	3.s.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up-	1.	3	
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS	1.	3	
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS	1.	3	5.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL	1.	3	5.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy.	1.	3	5.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis-	1. 1. 9.	3 2 7	28.9
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed.	1.	3 2 7	5.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found	1. 1. 9. 8.	3 ? 7 8	28.9
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made.	1. 1. 9.	3 ? 7 8	28.9
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made. Where 2nd and 3rd page entered, info. checked	1. 1. 9. 8. 23.	3 ? 7 8	28.9
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made. Where 2nd and 3rd page entered, info. checked for accuracy and errors corrected.	1. 1. 9. 8. 23.	3 7 8 6	28.9 28.9 26.5 70.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made. Where 2nd and 3rd page entered, info. checked for accuracy and errors corrected. Julian date matched, if error , correct date is	1. 1. 9. 8. 23. 5.	3 7 7 8 6	28.9 28.9 26.5 70.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made. Where 2nd and 3rd page entered, info. checked for accuracy and errors corrected. Julian date matched, if error , correct date is entered.	1. 1. 9. 8. 23. 5.	3 7 8 6	28.9 28.9 26.5 70. 15.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made. Where 2nd and 3rd page entered, info. checked for accuracy and errors corrected. Julian date matched, if error, correct date is entered. Report checked for cross referenced cases. [f	1. 1. 9. 9. 23. 5. 5. 5.	3 7 8 6 .2 .2	5. 28.9 26.5 70. 15. 9.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made. Where 2nd and 3rd page entered, info. checked for accuracy and errors corrected. Julian date matched, if error , correct date is entered. Report checked for cross referenced cases. If omissions found, additions made to note field.	1. 1. 9. 23. 5. 3. 18.	3 ? 7 8 6 2 2 1	28.9 28.9 26.5 70. 15.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made. Where 2nd and 3rd page entered, info. checked for accuracy and errors corrected. Julian date matched, if error , correct date is entered. Report checked for cross referenced cases. If omissions found, additions made to note field. Stamped with PRC N # and set aside for CLETS picke	1. 1. 9. 23. 5. 3. 18.	3 7 8 6 .2 .2	5. 28.9 26.5 70. 15. 9. 56.
Julian date matched. If error, correct date is entered. Reports are stamped with PRC's N # and filed up- right for merging and CLETS TOTAL Distribution marking is checked for accuracy. If omissions found, copies made and dis- tributed. Underlined names checked. If errors found screenface called up and correct entry made. Where 2nd and 3rd page entered, info. checked for accuracy and errors corrected. Julian date matched, if error , correct date is entered. Report checked for cross referenced cases. If omissions found, additions made to note field.	1. 1. 9. 23. 5. 3. 18.	3 ? 7 8 6 2 2 1	5. 28.9 26.5 70. 15. 9. 56.

PRINCIPAL TASK	NARRAT'I VI:	TIME CONSUS (MUNUTES)	
		Per Shift	21 Hou Total
TRANSCRIPTION	Transcription full page Supplemental reports	248.3	744.
•	Transcription for ½ page reports	29.8	89.
•	Entry made in log book	10.5	31.
	TOTAL		
		288.6	865.
		(SHrs,13Min))(1411rs
Quality Control	Reports are retrieved from transcription area,		
of Form 3 from	sorted by type and time stamped.	4.4	15.
TRANSCRIPTION	Reports arranged in case number order.	1.1	3.
	Reviewed for transcription errors.	26.0	79.
	Checked for CN #, if omitted, query in RIS.	1.3	5.
	Single sheets copied, multicopies separated.	4.2	12.
	Copies marked for distribution, stamped with N # and sorted	2.5	7.
	"Official Copy" stamped on BFO, Records copy time-		
	stamped, distributed	2.8	8.
	TOTAL		
		45.4	130.
Form 3	Form 2 is called up on the terminal to		
Indexing	determine if Form 3 reconciles. If yes,		
	enter in RIS.	26.3	112
	If no, this procedure is followed;		
	Query RIS		
	Review CAPSS log	12.3	37.
	Enter corrections in RIS and on report		
	Make copies of corrected report and dis-		
	tribute	10.6	32.
	TOTAL		
	F-27	53.8	161.

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INCIPAL TASK	NARIATIVE	TIME CONSU (MENUTES)	
		Per Shift	21 Hou Total
Quality Control	Form 2 is called up on the terminal to determine if Form 3b reconciles.		•
of Form 3b	If not, CAPSS log is reviewed for Case #	1.1	
	If a match, form is stamped in, copied, marked	1 5	1
	for distribution, copies distributed. Report entered in RIS, N # entered on report,	1.5	4.
	interfiled with FORM 3's.	.6	2.
	TOTAL	.	
		3.2	10
Permanent Suspect	RIS is queried for case #		
Form Processing	If no match, detective is called (infrequent) If match, suspect is entered as permanent to-	.16	
	gether with other data. Form is time stamped,		
	stamped indexed, one copy marked "Records".	.5	1
	Original transmitted to detective. Filed upright by case #.	.9 .3	
	TOTAL		
		1.8	5
Case Number	Cará retrieved from front counter, arranged		
Card Processing	by number, blanks discarded, filed.	5.0	15
Tracking of	The following procedure is followed when		
Missing Report	a report is discovered to be missing as a result of a no-match with F-3, 3b, per-		-
	manent suspect form or citizen call-in		•
	Name queried in RIS (CRQN), CAPSS log		
	searched for IR and page copied. Form 202-59 prepared and copied CAPSS		
	log page and 202-59 merged.	6.8	20
	The original and a copy of the log trans mitted to BFO.	1.7	
	F-28		

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INCIPAL TASK	NARRAT I VI;	TIME CONSULE (MINITES)* Per Shift	
	Form 202-59 placed in tickler file which	.3	1.6
	is checked periodically	.~	
•	If report received, it is then processed		
		1.1	3.3
	If not received, 202-59 process is repeated	L •	
	IF THEN NOT RECEIVED, Supervisory TOTAL		
	Sergeant is called.	10.0	50.0
	Jergewith and		· · · · · · · · · · · · · · · · · · ·
	Correct distribution is verified	5.2	9.
Quality Control of	If incorrect; report is marked correctly,		
Form 16	copied, out-stamped on last page and		
		22.0	65.
	distributed Correct case # is verified (Visual)		5.5
	Correct case # 15 Verified (Viscon) If incorrect; CAPSS log is checked and		
A	page copied. Correction entered in RIS,		1
(.)	page copied. Correction chiefe	2.3	6.3
	corrected copy transmitted to AIB	11.0	42.0
	RIS entry verified	.5	1.:
	If incorrect; correction entered	r.	
	If reports are under investigation;		
	The face sheet is copied and filed in		
	suspense file, original in "Under Invest-	13.5	40.4
	gation" file	4.7	14.0
	Reports are verified for officer error.	1.	a a
	If error discovered, a kickslip is prepared		3.1
	copied, transmitted to BFO.		· .
	Copies are pulled pending officer info,	5,0	15.
	stapled, corrected and distributed.		i
	If error is lack of cross street; CAPSS	1	
	log is checked and report corrected.		
	Reports are filed in suspense file		
	TOT		
C,		7.1.	
	CALCULATED AVERAGES OF REPORTS SUBMITTED		، ۴۰، بید

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NCIPAL TASK	
Quality Control	Correct dist
of Form 19	If inco
	copied
	Correct case
*	If inco
	case #
	Reports are
	If erro
	prepare
	Copy of
	distril
	If erro
	is chec
6	Reports are
	A list of 10
Quality Control	of Original re
Accidents;	box. Incide
Releases and	RIS updated
Supplementary	and input a
Reports	Supplementa
	bution, cop
	Original me
	•
 Start Res 	

* TIMES BASED ON CALCULATED AVERAGES OF REPORTS SUBMITTED.

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NARRATIVE	TIME CONSUN (MENUITES)	
	Per Shift	24 Hour Total
distribution is verified.	1.5	4.4
incorrect,		
pied and distributed	1.7	5.1
case # is verified (visual)	.6	1.9
incorrect, CAPSS log is checked and		
ase # corrected	1.0	2.9
; are verified for officer errors	2.1	6.3
error discovered, a kickslip is		
repared, copied and transmitted to BFO.	.53.3	160.0
ppy of kickslip and facesheet stapled and		
istributed	.3	1.0
E error is lack of cross street, CAPSS log		
s checked and report corrected	.9	2.7
s are filed by case number	.5	1.5
of 16's and 19's CN's typed.	3.3	10.0
JOTAL		
	65.2	195.8
		ļ
al reports are pulled from "hold"	07.6	
Incident up date queried (CRUI)	93.6	280.9
dated and checked for additional info		
put and referenced to case.	12.2	36.7

mentary reports marked for districopied, and distributed. l merged into suspense file

F-30

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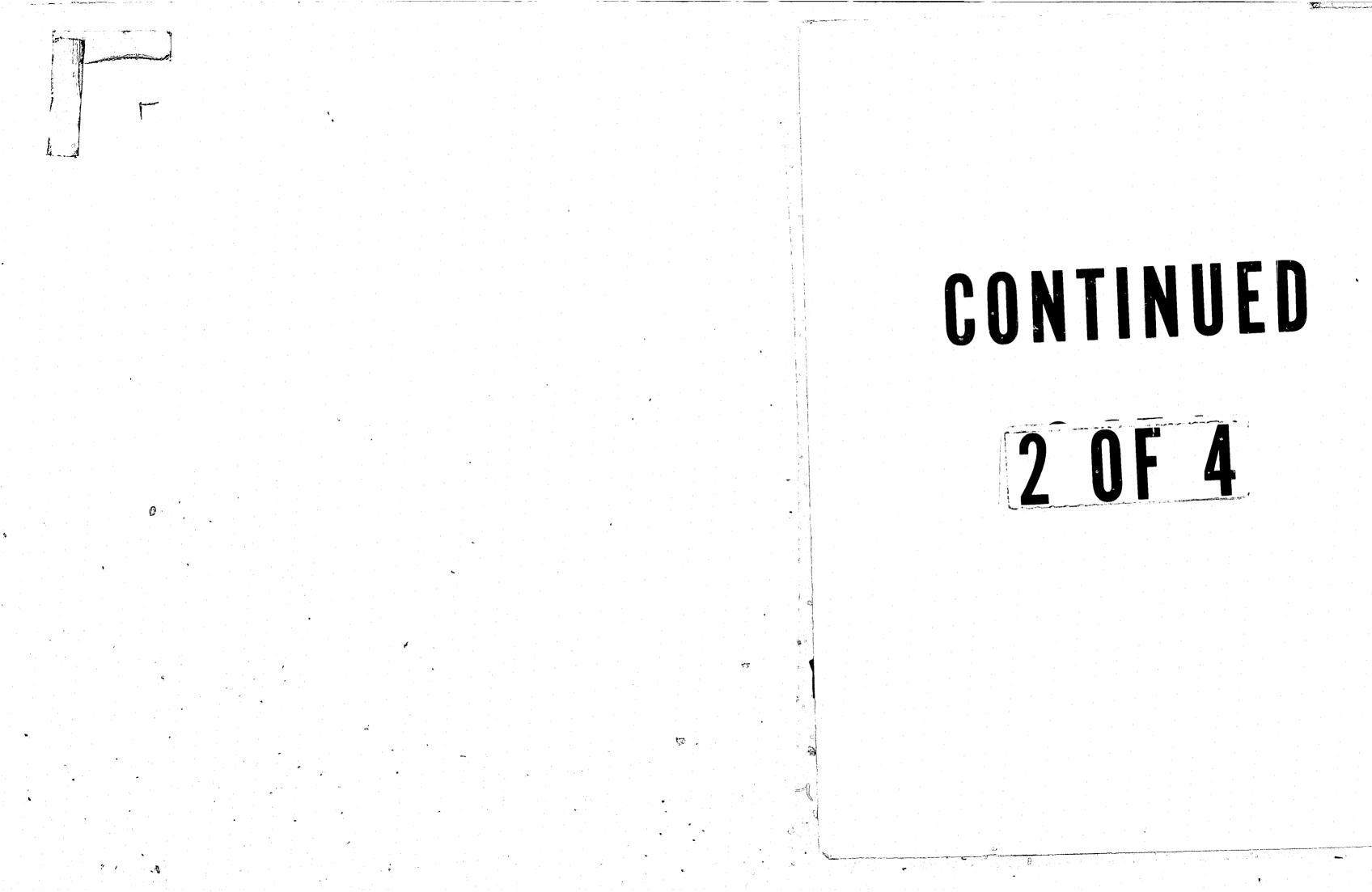
18.1

128.0

TOTAL

12.4

54.4



NARRATIVE		
	Per Shift	24 Hour Total
Set of negatives are counted, placed in		•
envelope, number and N # marked on		
envelope. F-16 marked with quantity of		
negatives.	1.8	5.3
Negatives are filed.	.8	2.5
TOTAL		. ·
	2.6	7.8
Total time in hours	6 hrs	19 h:
	26 min	12
	· · · · · · · · · · · · · · · · · · ·	
Total time in hours '		
	6 hr	18 h
	15 min	5 t.:
Total time in hours	19 hrs	59 h
Total time in hours		
	Set of negatives are counted, placed in envelope, number and N # marked on envelope. F-16 marked with quantity of negatives. Negatives are filed. TOTAL TOTAL	(MIMITES) Per Shift Set of negatives are counted, placed in envelope, number and N # marked on envelope. F-16 marked with quantity of negatives. 1.8 Negatives are filed. TOTAL 2.6 Total time in hours 6 hrs 26 min Total time in hours 6 hrs 6 hr

 $1^{\circ} \sim 0$

6 72 Retrieve all Time & Date Netermine if processing pr If yes: Mark pri (Av # F-Make cop Stamp cop 24.7 re Stamp cop 6 Distribut If no priority process' r Form 1 (Av. 50/ Burst form Determine If yes: Destroy pir If other c . Determine 19 Make copies

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* TIMES BASED ON CALCULATED AVERAGES OF REPORTS SUBMITTED.

F-31

Distribute



RECORDS REPORT PROCESSING * TIM / TASK

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	Av. Time (sec.)	Units/ 24 Hrs.	Total Sec.	Total Min.
l reports (all areas - 3 x per shi	Et) <u>T=5</u> min	x 9	-	45 0
stamp in (1,2,16,19,JCR, DUI, Other)	4.3	368	1582.4	<u>45.0</u> 26.37
f any reports have investigative/ priority	65	6	390	6.50
		•	•	
iority reports for distribution -2 24.7; Av # 16's 5.6)		303	454.5	7.58
pies F-2's = 60 sec x 24.7 16's = 30 sec x 5.6	60 30	24.7 5.6	1650	
opies with Court & N.A. reports av, 2.5 pages av each	10	61.75	> 1 <u>650</u>	27.50
ppies out w/Time/Date stamp	3	pages		· · ·
te report copies		.30.3	90.9	1.52
y reports present:	*	30.3	909	15.15
reports by report type	• •		•	
0/24 hr.)				
m,				
e if crime type is malicious mischie		50 50	<u> </u>	<u>6.25</u> .03
ink copy	_			.05
crime type:	3	14	42	. 7()
distribution	.			
25	11.25	36	406	6:75
Copies		36	36	.60
	11.25	36	405 0	0.75
Octions - C. C				

* Excluding functions of front counter, library, and microfilm

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	REPORT PROCESSING (continued)	I	5		RFPORT PROCESSING (continued)	1 			
		Av. Time Units/ Total Tota (sec.) 24 Hrs. Sec. Mir				Av. Time (sec.)		Total Sec.	Total Min.
	Form 2 (Av. 132/24 hr.)				Form 16 (Av. 42/24 hr.)	(300.)			1 (),] ()
	Burst form	7.5 132 990 16.1			Mark for distribution	20	42.	840	14.00
	Mark reports for distribution	<u>15 132 1980 33.</u>			Make copies of report 25 sec regular	25	42		
•	Make copies as appropriate	60 132 7920 132.)		15 reduced size	15	<u> 42 </u>	1680	28.00
	Mark copy DA; court	•			· Distribute copies per procedures	120,	6 5	720	12.00
• •	Distribute copies			•	Further processing for all reports except those	e done pro	eviously as	investiga	ative
•	JCR (Av 33/24 hr.)				priority.		l I		4
	Determine if crime type is 601 only	<u> 66 38 2178 36.</u>	3		Stamp 1's, 2's, 16's, JCR's, with date & time stamp	4.3	253.4	1089.62	18.16
À	If yes: (10.76% of JCR's) transmit all JCR copies to	10 3.6 36	60	1 1	Case number order reports for QC & filing	3.0	253.4	760.2	12.67
	If no: tear off and retain original		68		Enter reports in RIS		•	•	
	transmit JCR copies to Juvenile	7.5 29.4 2205 3	68		1	106	50	5300	88.33
	DUI (Av. 15/24 hr.)				2	140	132	18480	303.00
	Make copies of reports	3.5 15 52.5	.88	C .	16	133	42	5586	93.1
	Query II. System for driving history	120.0 15 1800 50	.0		Supplemental (Prelim2a,3a,16a)	60	5	300	5.0
	Wait for DL response	30 15 450 7	.5		DUI	118	15	1770	29.5
•	Copy DL output	30 15 450 7	.5		JCR (less 601's)	127	29.4	3773.8	62.23
	Copy chemical analysis form (accompanies	DUI) 30 15 450 7	.5		Determine if RIS accepted entry	5	275	1375	22.92
	Merge copy NL output, chemical analysis copy and pre-booking with copy report	30 15 450 7	.5	t in the second s	If no: (arbitrary 10%) re-index	13	2.75	357.5	. 5.96
	Transmit copies to AIB	7.5 15 112.5 1	.88	al an	Underline names on reports (Av. 2.5 name	5)	645	1290	· 21.50
	Form 4 Transmit to Auto Desk (twice/shift)	90 6 540 9	.00		Stamp 'indexed'; initial	3	253.4	760.2	12.67
•	Form 19 (Av. 19/24 hr.)			9 	Sort into accident/non-accident	2	253.4	760.2	8.44
	Mark for distribution	10 19 190	5.17	* 9	Transmit to OC & Accident OC (3x/shift)	30	9.	270	4.5
	Make copies of report	10 19 190	<u>5.17</u>						•
	Distribute copies per procedures	- 30 19 570	0.50						
				5					

F-33

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Non-Accident Quality Control

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						é ·	non neerdene iv (ci
•		Av. Time (sec.)	Units/ 24 Hrs.	Total Sec.	Total Min.		
•	Form-1 QC						Form-2 OC
	Check routing for accuracy	6	50	300	,		Check routing
•	If no: Make copy	4	5	2(1	. 33		If no: make copies
	Reroute	6	5	3.0	.50		•
, · · · ·	Check to see if underlined properly	· 10	50	500	8.33		distribute co
	If no:	6	5	3(1	.50		Check indexin underlined na
• •	Query for name (CRON)			· · · · · · · · · · · · · · · · · · ·			If no:
	Check indexing		50	250	4.17	`	call up screen
• *	If no: Change screenface & re-index	15		105	1.75		Check 2nd, 3r underlined it
	Check Julian date match	4	50	200	3.33		If no: call up scree
	If no: Enter correct date of #	5	5	25			
	Stamp N #	3	50	150	2.50		Check Julian/
	File copies upright for merging & CLETS	5 20	3	60	<u>1</u>)	6	If no: call up scree (Av. CN corre

TRANSCRIFTION

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Log # sheets transcribed all forms

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Non-Accident QC (continued)

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<u>n-2 (XC</u>	Av. Time (sec.)	Units/ 24 Hrs.	Total Sec.	Total Min.
Check routing accurate	10	132	1 320	22.1
If no: make copies				
distribute copies	90	3	2.70	4.5
Check indexing accuracy by looking for underlined names	27	132	3564	<u> </u>
If no: call up screenface; correct/enter info	1.5	45	675	11
Check 2nd, 3rd page info by looking for underlined items (75% reports have 2.5 pgs.)	6	້ວບ	594	9.
If no: call up screenface; enter•info	10	3(1	340	5.1
Check Julian/date match	4	132	528	8.
If no: call up screenface; enter correction (Av. CN correction/day = 1)	3		56	· · ·
Check for presence of cross refenced case ""	s_25	1.32	3300	55
<pre>If yes: Average 2-3/day cross reference #'s query all #'s involved</pre>	5	3	15	
check note field; put reference #	6	3	18	
Stamp N #	3	132	396	6.
Set aside for CLET'S pickup	10	3	30	-
NSCRIFTION				
Transcribe F-3's full page 11:72 ¹ / ₂ page 6:23	912 384	.19 14	44688 5362	744. 89.3

F-36

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Non-Accident QC (continued)

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1104	in Acciliante (a feorie marci)				-			NON-ACCIMENT (C. (CONTINUCA)				
•		Av. Time (sec.)	Units/ 24 Hrs.	Total Sec.	Total Min.				Av. Time 1 (sec.) 2	$\frac{1}{24}$ Hrs.		fotal Min.
· <u>Fo</u>	<u>rm 3 QC</u> (from transcription)		- · ·					Form 3b (Av. 3/day)			-	
	Retrieve reports from transcription	105	3	315	5.2%			Retrieve from transcription basket	included w/	F-3's	an pa unagin na bagan de akan er	
	Sort reports by type	75	3	225	3.75			System Auery to check case # correct	6	3	18	3(
•	Time stamp 3's in	4	63	252	4.20			If no:	75	2	150	2.5
•	Put in Case # order $T = 3 m$	nin <u>17</u>	: •	197	3,28		and the second sec	• Review CAPSS log for case #	. 2	3	6	.]١.
	Review report for transcription errors	full 90 1/2 27	49 14	<u>4410</u> <u>378</u>	73.50			Stamp form in		3	21	.35
	Check for CN # presence on report	5	63	315	5.?			Make copies		3	18	. 30
	If no:							Mark distribution: distribute copies			231	3.85
	Run name in RIS to get CN #	5	2	10	1			Distribute copies				
	Xerox single sheet F-3's	6	14	81	1.4			Enter report ("3h") into RIS	4	3	<u>i2</u>	
	Separate edgings from multicopies	13	52	676	11. ?			Put N # & indexed on report	5	3		· · · · ·
	Mark all F-3's for distribution	7	63	4 ; 1	7.5		and the second sec	Interfile with 3's	26	3		1, 3,
	<pre>stamp with N #; sort into piles according to distribution</pre>							Permanent Suspect Form				
	Stamp BIO copy with "official copy" and annotate	8	2	16			6	Query RIS for case # If no:	6	2	12	· · ·
	Distribute copies	100	3	5()()	5.0			Call detective (infrequent)				
	Time stamp Records copy out	3	63	189	3.1			Enter suspect permanent & other info	3	2	6	.10
								Time stamp form	1	2	2	.0-
F	orm-3 Index							Mark indexed	3	2	6	<u>.1</u>
	Call up F-2 screenface							Make copies	5	2	10	.1
	Determine if F-3 reconciles with F-2 by comparing data	6	63	378	6			Mark copy as Record's	4	2	8	<u> </u>
	If yes:							Distribute original to Petective	80	2	160	2.6
	Enter F-3 into RIS (full page) short 3 (!2 page)	82	19 14	4018 336	66.97 5.0			File in upright by case #		<u>;</u>	()() 	1.0
	If no: RIS inquiry	7	21.5	150.5	2.51			Case Number Cards				
	Review CAPSS log for #	73	21.5	1569.5	26.10			Retrieve cards from front counter				
	Enter correct # on report	18	21.5	307	6.1	535 -		Put cards in number order				• • • •
ţ	Enter correction RIS Prepare copies of report with corrected #	5	21.5	107.5 86	1			Throw away blanks	<u>15 min</u>	T' <u>l</u>		15.0
	Distribute copies	85	21.5	1827.5	30.4			File in drawers				· · · · · ·
	F-37						and the second sec	(This process takes 20-30 minutes when cauls	cone down from	County Co	mmmicati	on (.)
						1	11 · · · · · · · · · · · · · · · · · ·	C 20				

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Non-Accident QC (continued)

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Non-Accident OC (continued)

MISSING REPORT PROCESS

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and a second				
Quality Control when report determined missing a bermanent suspect form or by citizen call-in.	fter recei Av. Time (sec.)	pt of F 3, Units/ 24 Hrs.	Sec.	Total Min.
Run names in system (CRON, RIS)	5	5	25	.42
Identify IR from CAPSS log	108	5	540	9.0
Copy CAPSS log page	7	5		.58
Prepare form 202-59	<u>90</u>	5	450	7.50
Make copy of 202-59	26	5	130	2.17
Merge original 202-59 & copy CAPSS log	10	5	50	.83
Transmit original & copy log to BFO	62	5	3.10	5.17
Put copy 202-59 in tickler file	2	5	. 10	.17
Check tickler periodically to determine if report received	5	5	25	. 4?
If yes: Normal processing				·
If no: Repeat 202-59 process	T <u>= 3 min</u>	15_195		3.25
If no again: Call supervisory sergeant	-		-	
Missing Person (Form 3)				
Bureau of Investigative generated:			•	
Enter Case # RIS to check accuracy	5	2	11)	.1
If yes: Prepare and send copy CII Interfile original w/F-3's	<u>6</u> <u>15</u>	2	<u> </u>	.2
Information Center generated:				
Time stamp report	<u> </u>		. 6	
Fnter Case # RIS to check accuracy and F-2 presence	5	.	10	
If no: Check greenies for juv. or walkawa Annotate report with findings Make copies for CII; Juvenile Div. Route copies Afix N#	2	1 1 1	300 6 85 3	5, (, <u>;</u> , <u>,</u>

Form 16 CC	Av. Time (sec.)	Units/ 24 Hrs.	Total Sec.	lotal Min.
Verify distribution correct	14	42	588	9.8
If no: Mark distribution: make copies	61.5	42	2583	43.0
. Stamp out last page	33	42	1386	23.1
. Distribute copies				
<pre>Verify case # correct (visual comp.)</pre>	5	42.	210	3.5
If no: Check CAPSS log:	86	2	172	2.87
Copy page of log	5	2	10	.17
Input RIS w/correction	17	2		, 5
Check RIS took entry	7	2	1.4	
Pull copies: correct	76	2	15?	
Xerox new page for AIR		2	28	ء • • • • • •
Verify RIS entry correct (includes CRHI)	60	42	2520	42.1
If no: Input/correct RIS	23	3	69	1.1
Check RIS took entry	7	3	21	
If report under investigation:				
Duplicate face sheet	20	21	420	7.0
File sheet in susp. file	6	21	1.26	2.1
Put original report "under invest. file"	<u>)</u> 0()	21	1890	31.5
Verify reports have no officer error	2.0	12	8.13	11.
If error: Prepare kickslip BFO	.18	3	11.	2.1
Copy kickslip and facesheet	1.1		42	
Distribute	10	3	50	51
Pull copies pending officer info: staple: distribute copies correction	200		<u> </u>	<u> </u>

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		Av. Time (sec.)	Units/ 21 Hrs.		lotal Min.
	If error is lack of cross street: Check CAPSS log for street; correct report	80	l	80	1.34
File	reports suspense file	60	21	1260	21.0
Form	<u>19 QC</u> .				
	Verify distribution correct	14	19	266	4.43
	If no: Mark distribution; make copies	82		164	2.73
	Distribute copies	70		14()	2.33
•	Verify case # correct (visual comp.)	6	19	114	1.9
	If no: Check CAPSS log; change case #	86	?	172	2.
	Verify reports have no officer errors	20	10	580	ĥ
	IF error: Prepare kickslip BFO	48	2	96	1,:
•	Copy kickslip and facesheet	14	2	28	•
	Staple; distribute	10	2	20	·
	If error is lack of cross street: Check CAPSS log for street	80	2	160	2.6
	File reports by Case # in box	90	1	90	1.
	Type CN's of 16's-19's on list of #s T	= <u>10 min</u>			10.1
Acc	ident QC - Releases and Supplementary Reports				
	Pull original reports from "hold" box	2.5	21	52.5	
	CRUI case to screenface	8	21	198	7 (•
•	Update RIS release info	10	21	300	6.1
-	Check for additional RIS info & input	83	21	1743	29.0
	Go to page 2 RIS mask (3 sec input: response time depends on RIS)	3	<u> 1</u> 0	30	,
	Input referenced case present	16	7		•

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Mark supps for (5/day av.) Make copies of Distribute copies Mark report ind Merge original Pull copy (25 s <u>Photographs</u> Count negatives Mark F-16 with File negatives

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	Av. Time (sec.)	Phits/ 24 Hrs.	Totat Sec.	Total Min.	
or distribution, if necessary	10	5	50	, 20	
of supps as necessary	105	5	525	0 70	
opics of supps	30	5	150	8.75	
ndexed, if supp.	4	5	20	. 33	
l into suspense file	120	21	2520	42.0	
sec.); shred (20 sec.)	45	21	745	12,41	
				·	
es, mark envelop & N #	60	4.9	294.0	4.9	
n quantity & N #	5		24.5	.41	
i	30	4.9	147.0	2.45	

ICAP 8-79

9/19/79

Records Index Response Line Study

Purpose of the study

It was the purpose of this study to systematize a sample of data on RIS response time to determine whether terminal time significantly impacts on report processing.

Methodology

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Response times for processing police reports on computer terminals in the S.J. Police Department were analyzed as part of the ICAP report processing study. This study covered response time patterns and level of usuage for five common guery codes by hour of the day and day of the week. The period studied was one week, July 26 through August 1, 1979. The data source used was an edit program in RIS, titled "Teleprocessing Logtape Analysis, Systems Facilities Usuage." As this data is stored on microfilm, copies were reproduced on the microfilm printer to facilitate the recording of data. CMAI. the add code and CRUI, the undate code were analyzed separately. Three case tracking codes, CRQN (Name), CRQI (Incident), CRQB (Business), were grouped and analyzed together. Graphs were developed which show response times and number of queries for each day of the week by hour of the day. Average response times and number of queries are shown on another set of graphs.

Findings

For RIS response by Hour by Day of the Week

CRAI (Add)

Response time:

```
Max. R/T = 8.9 min. at 2400 hrs. - Friday
Min. R/T = 0.2 min. at 0800 hrs. - Tuesday
Average R/T = 0.7 min.
```

```
Number of queries:
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Max = 151 at 0600 Wednesday
```

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Min = 0
```

Average - 34 per hr.



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CRUI (Update) Response time:

Min. = 0

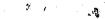
All CRO's

Response time:

Number of queries: Min. = 0

satisfactory.

F-43



```
Max. R/T - 1.7 min. at 1800 hrs. - Monday
  Min. R/T = 0.2 min. at 1700 hrs. - Monday
   Average R/T = 0.6 min.
Number of queries:
   Max. = 79 at 1500 hrs. - Tuesday
  Average - 21 per hr.
```

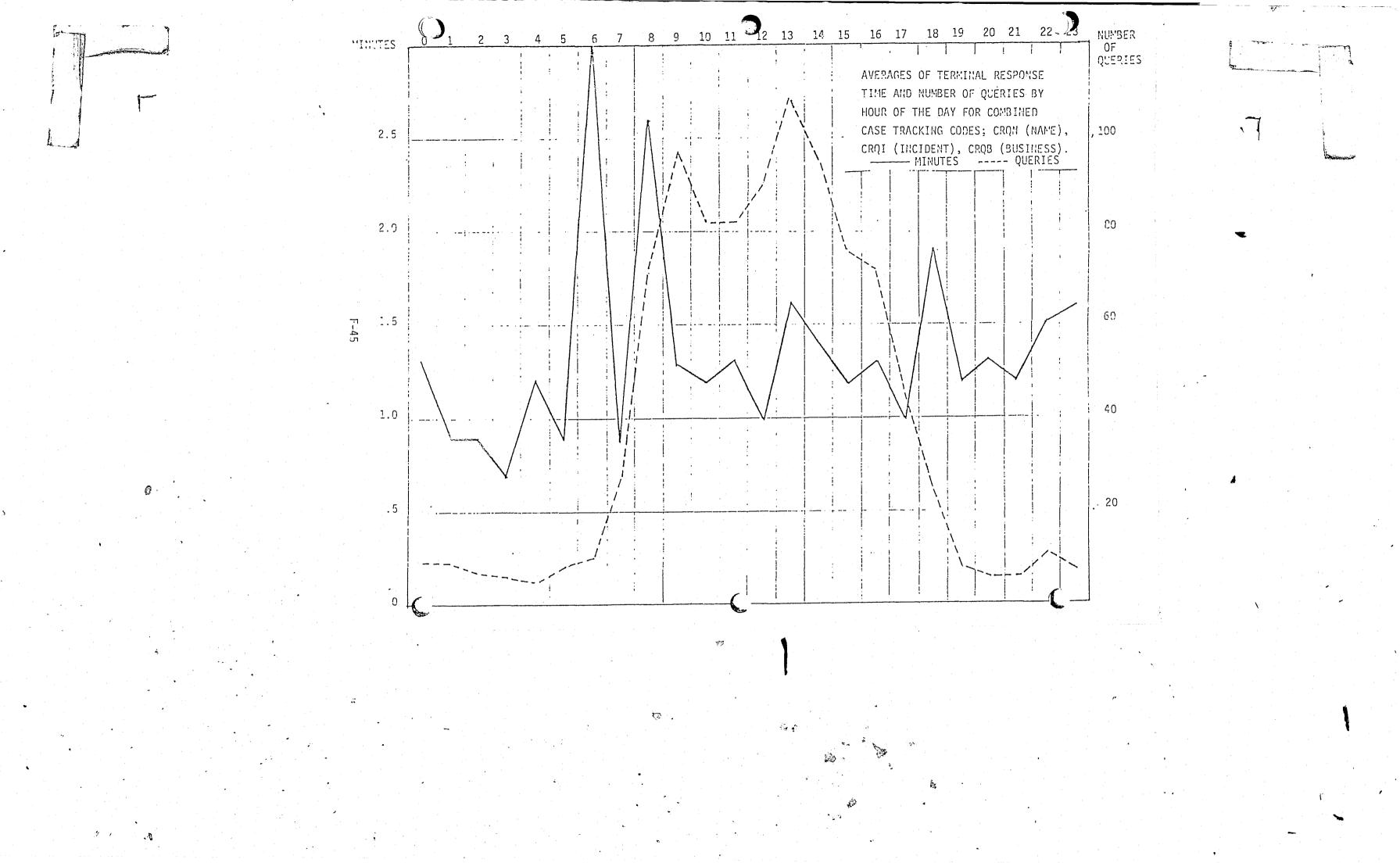
```
Max. R/T = 12.5 min. at 0600 - Tuesday
Min. R/T = 0.2 min. at 0400 - Thursday
Average R/T = 1.3 min.
```

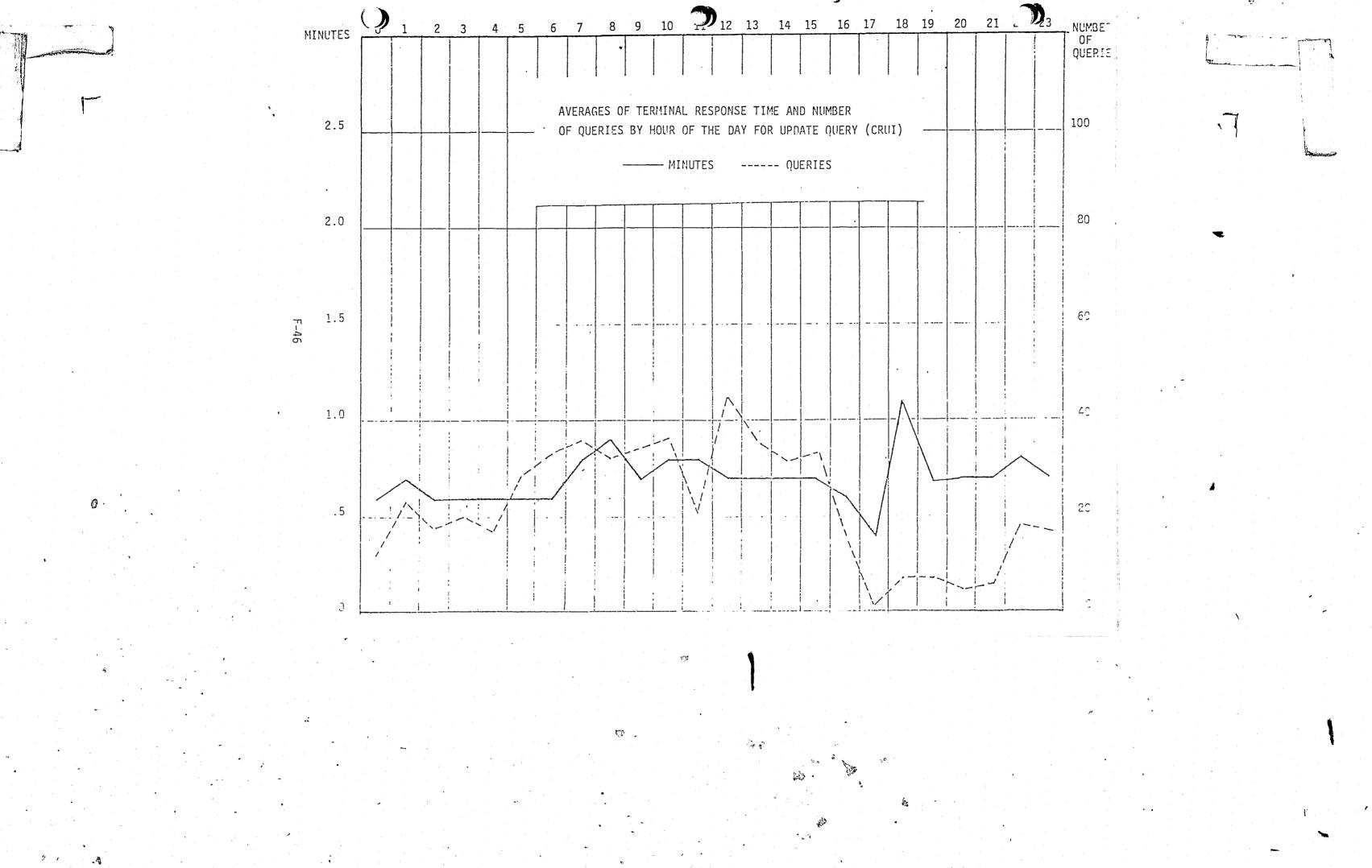
```
Max. = 208 at 1600 hrs. - Friday
Average = 40 per hr.
```

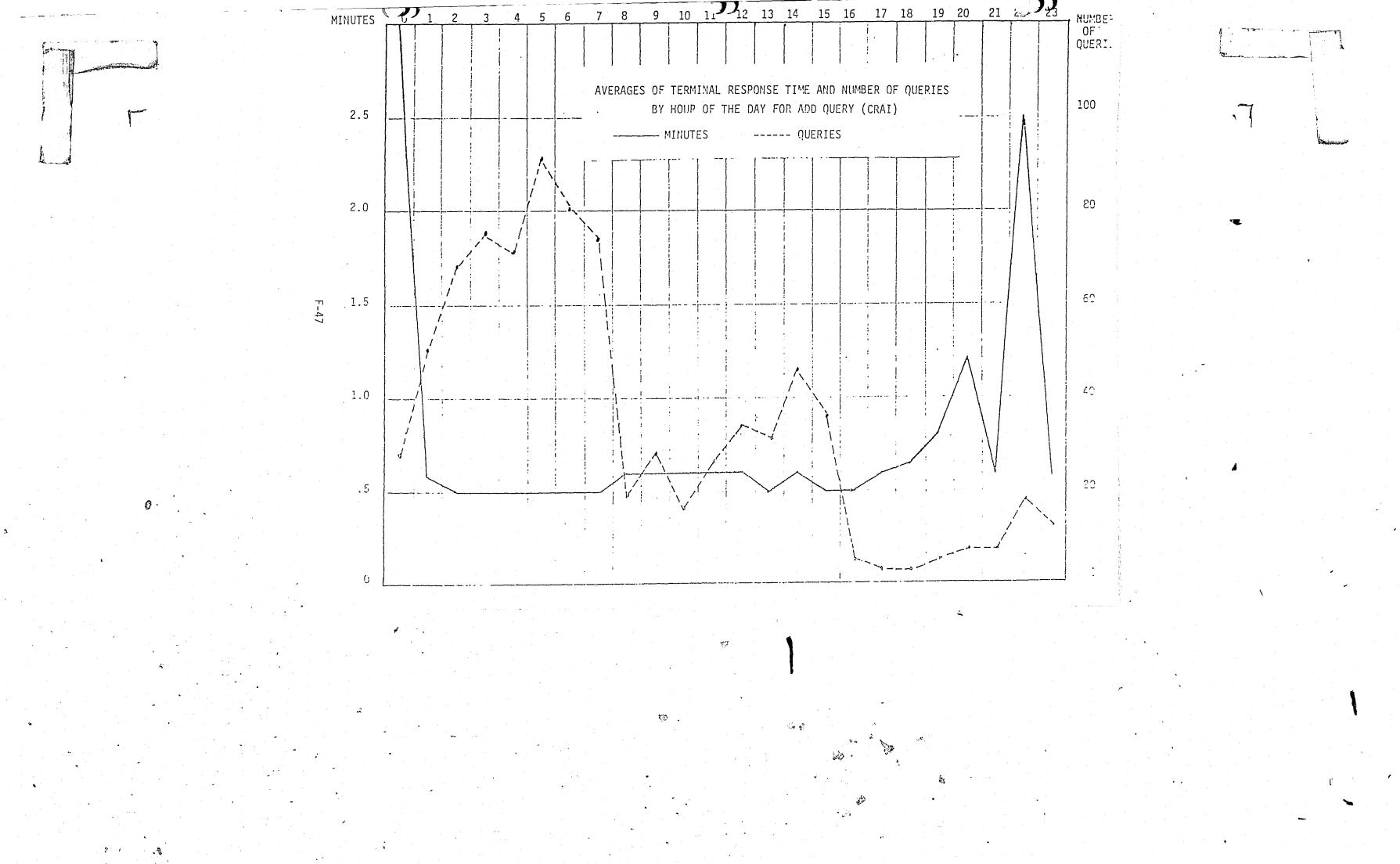
For all queries studied, response times between the hours of 0600 and 1800 appear longer than response times between 1900 and 0500. Response times for all CRQs, the case tracking codes, are significantly longer than for the Add and Update codes. Response times vary least for the update query with a range between 0.4 min. and 1.1 min.

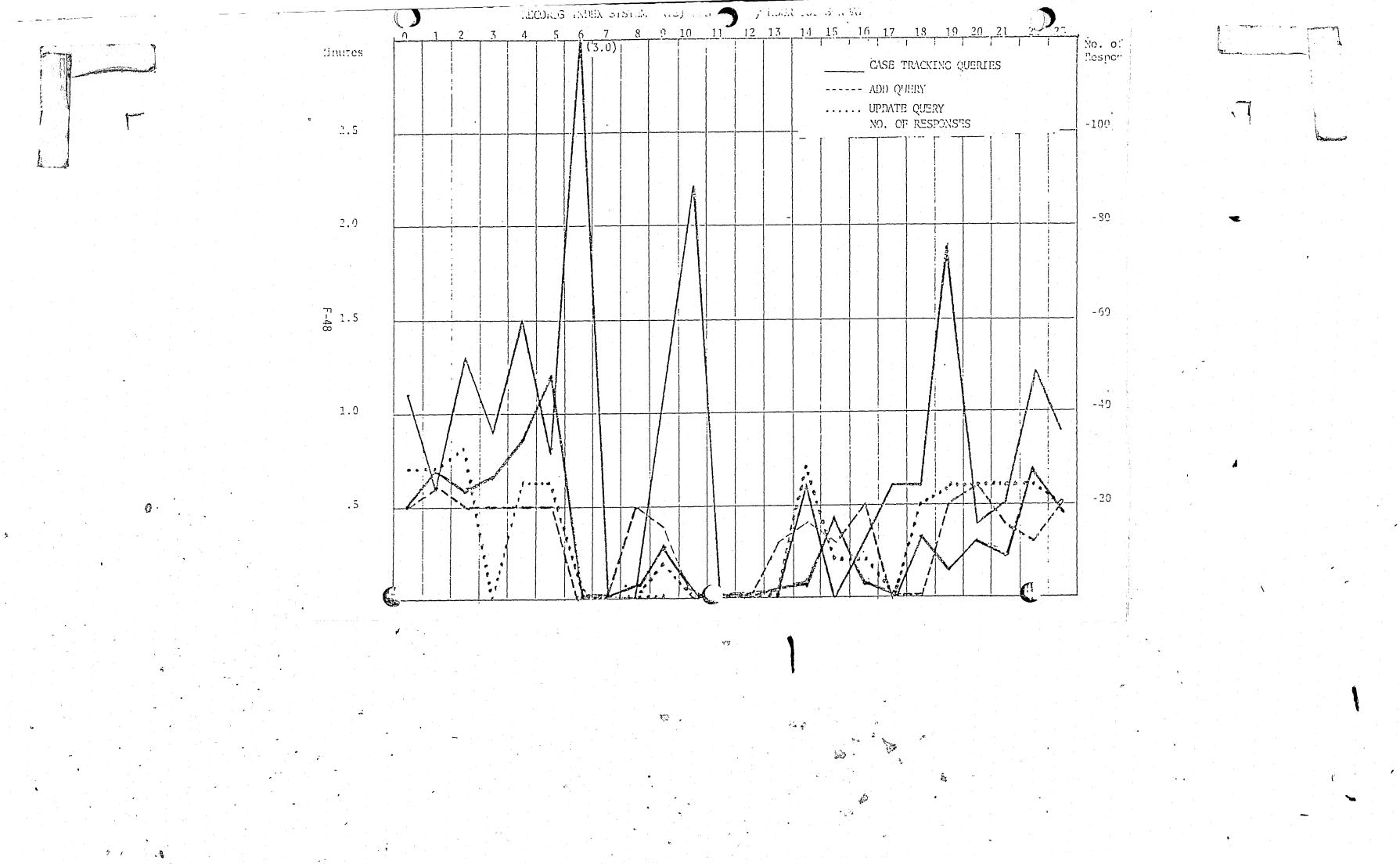
Usage is most clearly illustrated on the averages graphs. For the Add query usage is highest between 0100 and 0700. For the update query usage is up between 0600 and 1600. For case tracking queries most queries were made between 0800 and 1600 hours. All queries drop significantly in the evening and early morning hours.

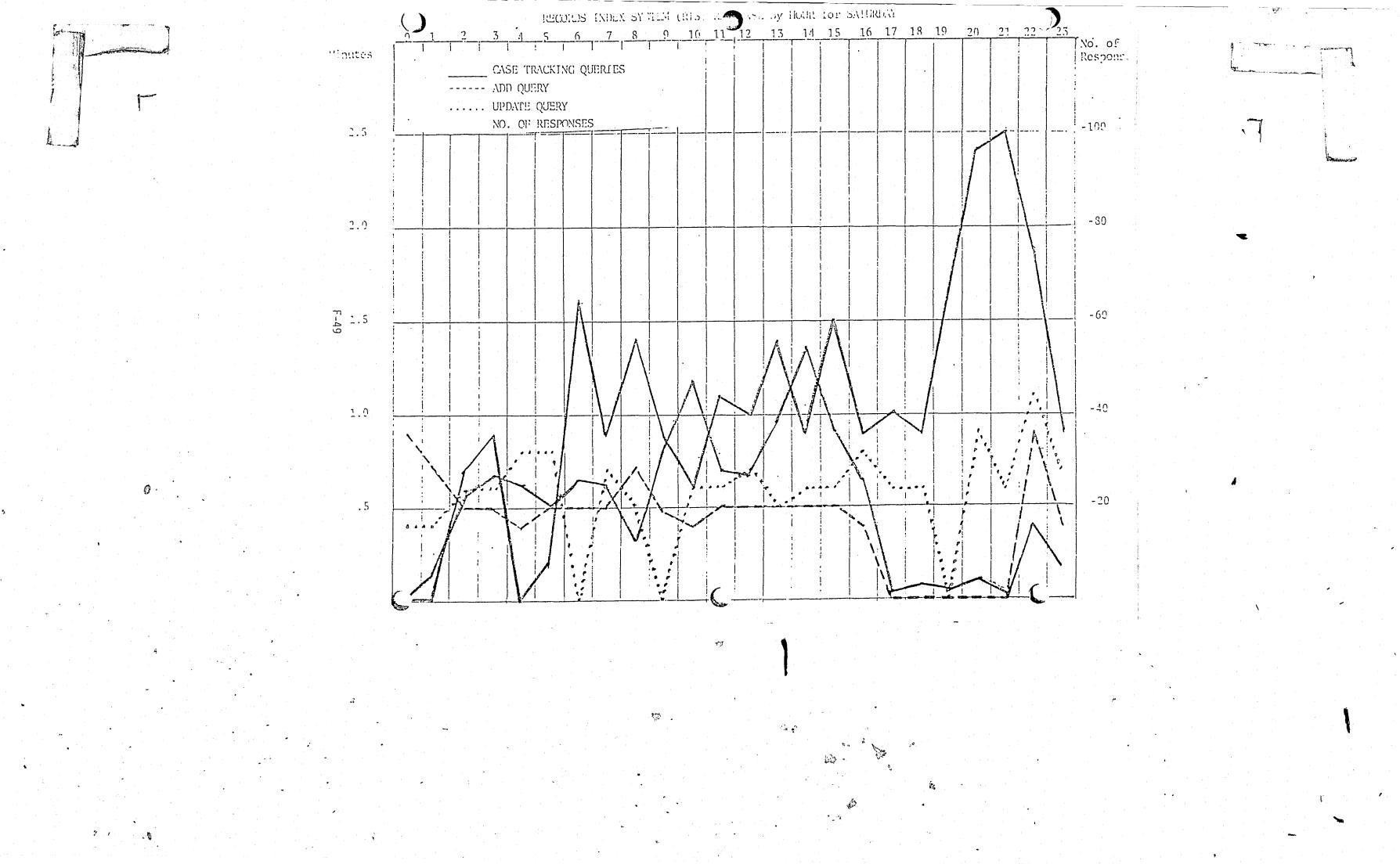
It is unfortunate that understaffing and scheduling problems have prevented better use of terminals during these hours where response times are generally good. Also, terminals are underutilized on Saturday and Sunday when response times for the Add and Update codes, in particular, are quile

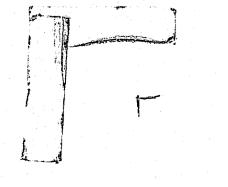


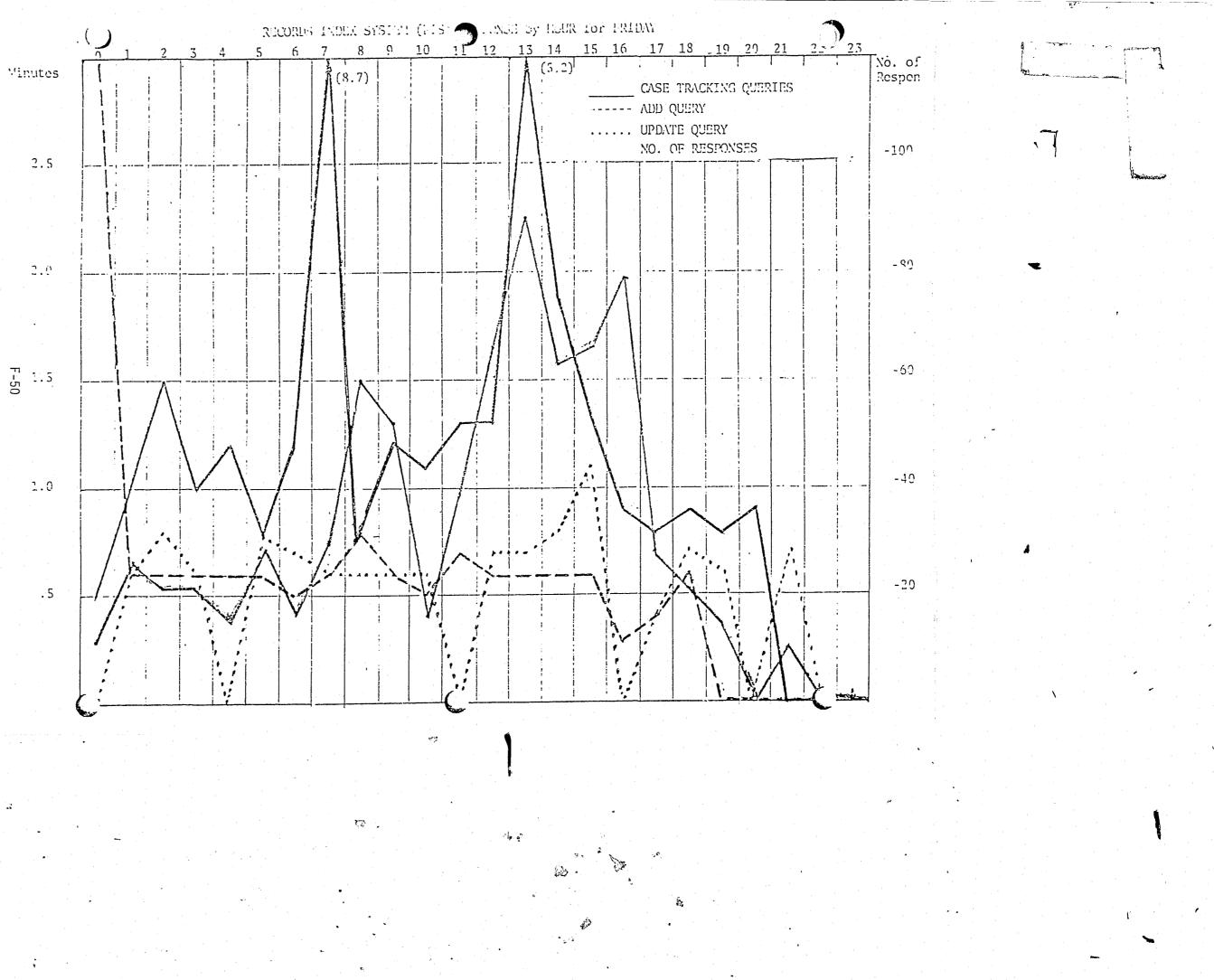




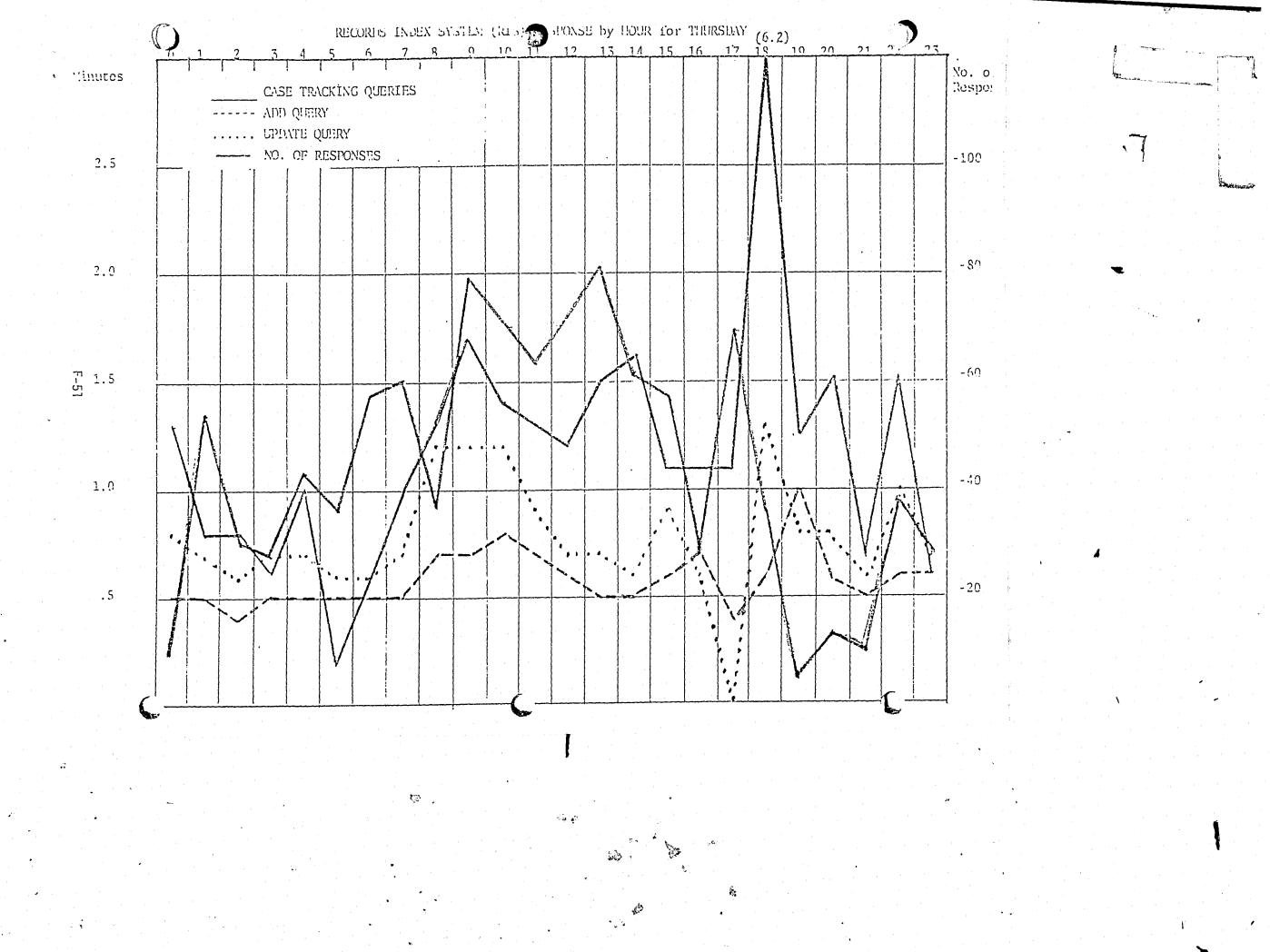






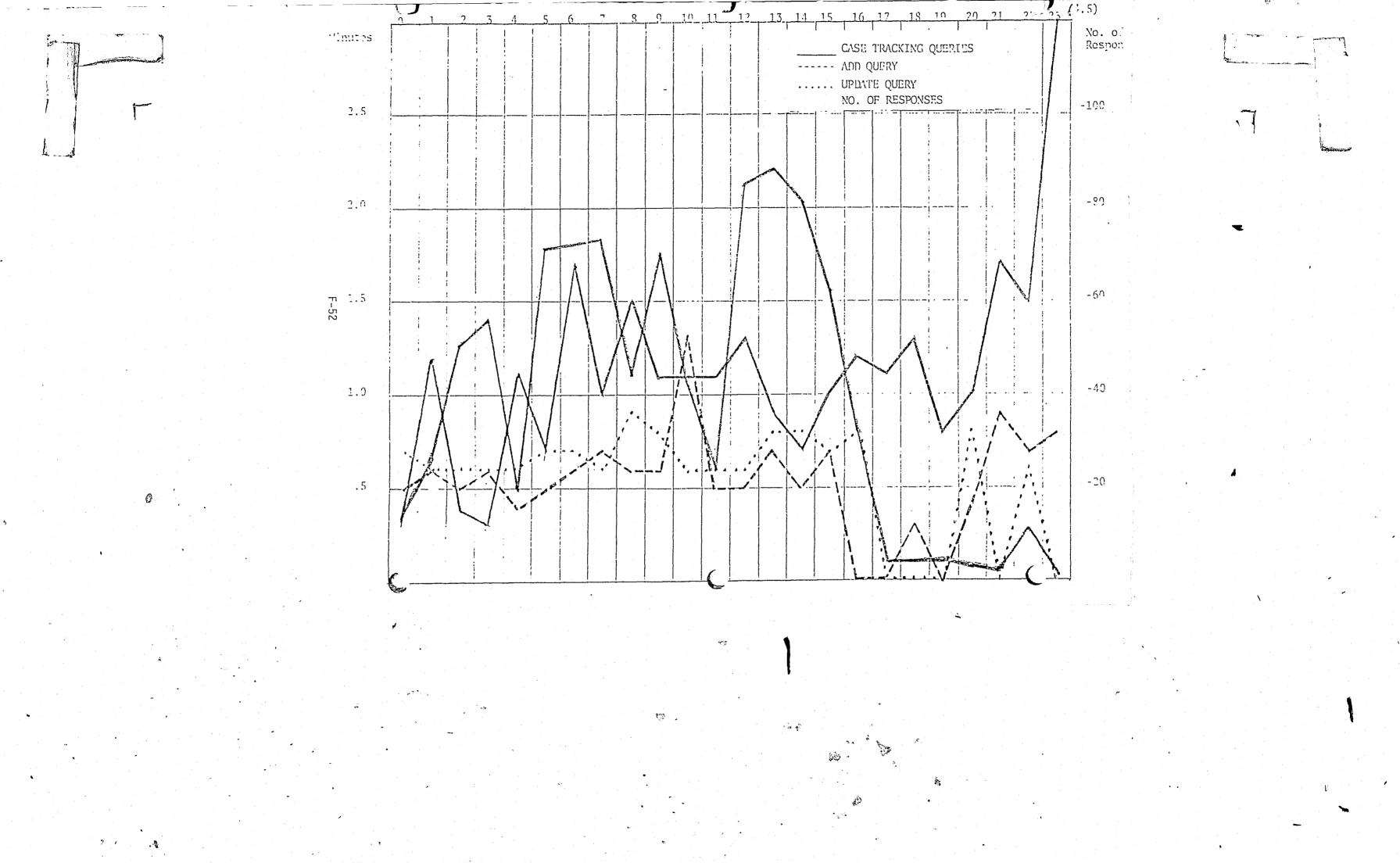


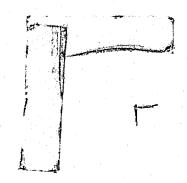
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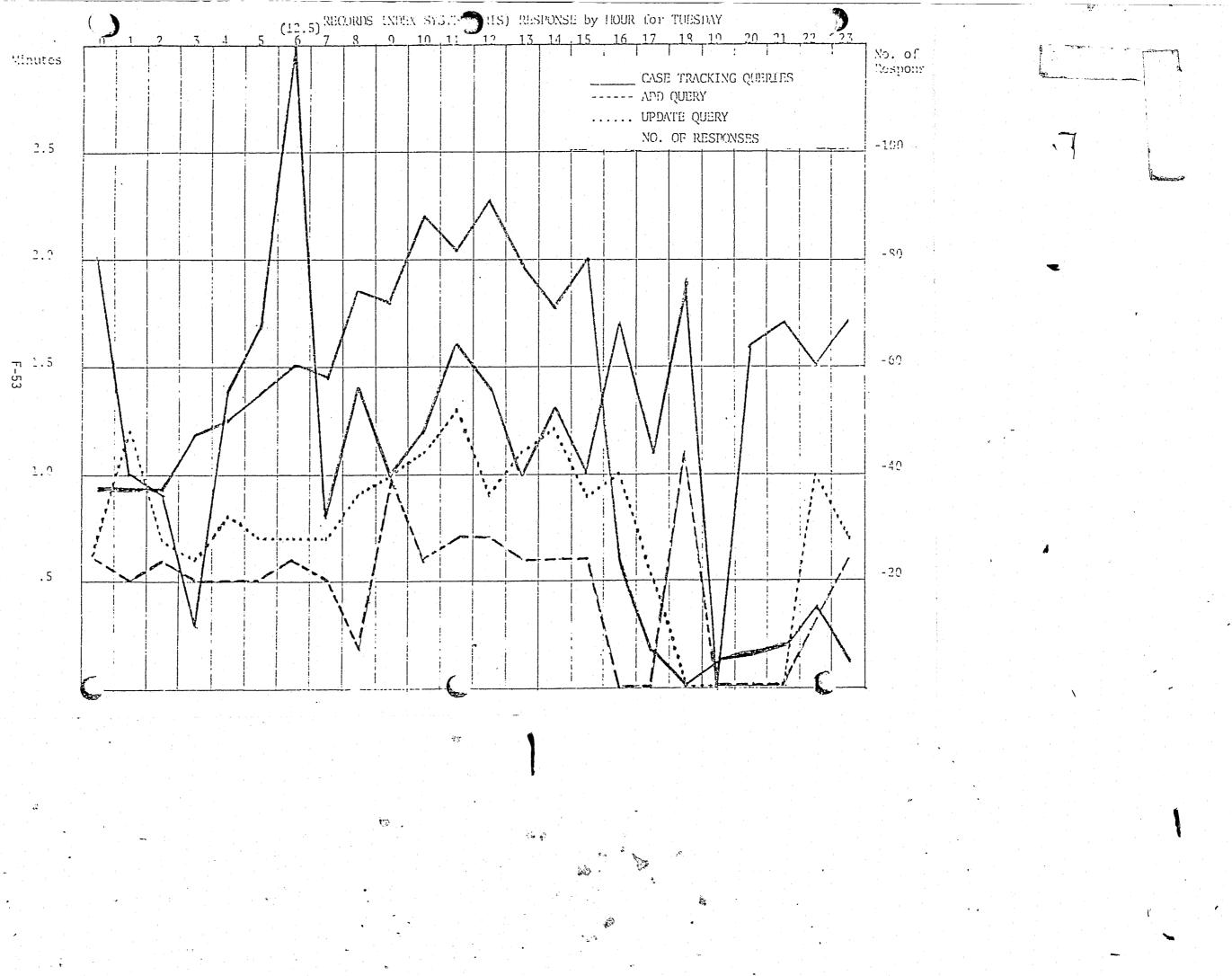


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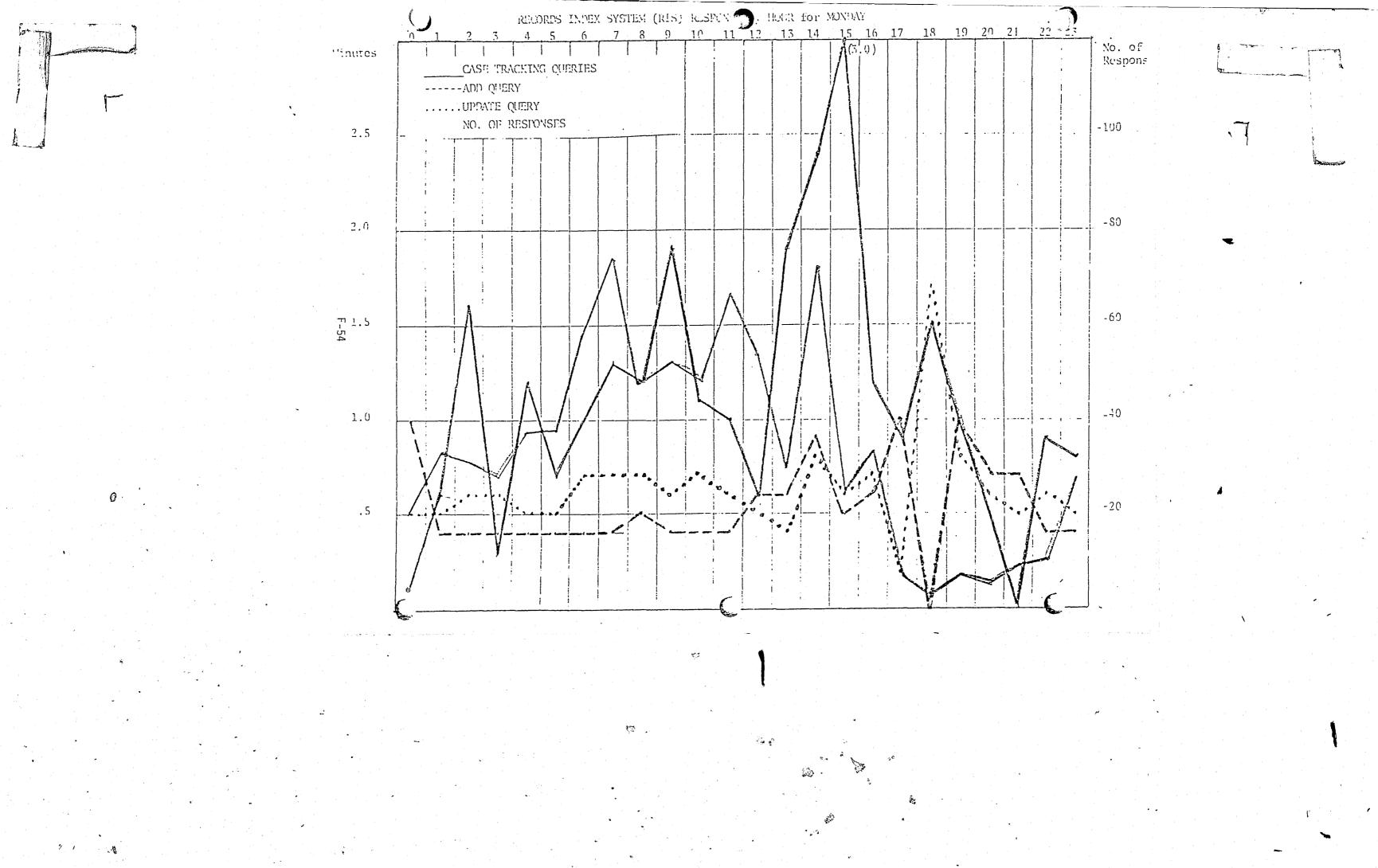






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These are givens:

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The minitrieve is stationary for now. The pneumatic tube moves only 1-2 feet. The transcription console is immobile and needs to be placed for rear access in case of repairs. The safe will be moved out of the area. Terminal 43 JA (SLETS) and SJ07 (CJIC) will be relocated in the Identification/Communications Section. New terminals are to be installed in the corner where the day supervisor of Report Processing is localed. Space for the review, enrichment, and liaison functions in Operations Support must be designated at this time. Space for Services must be reserved near the Teletype Room Captain's secretary will remain in present location.

Alternative I:

Pro's -

OPERATIONS SUPPORT UNIT FLOOR SPACE ANALYSIS

Alternative II:

Pro's -

Con's -

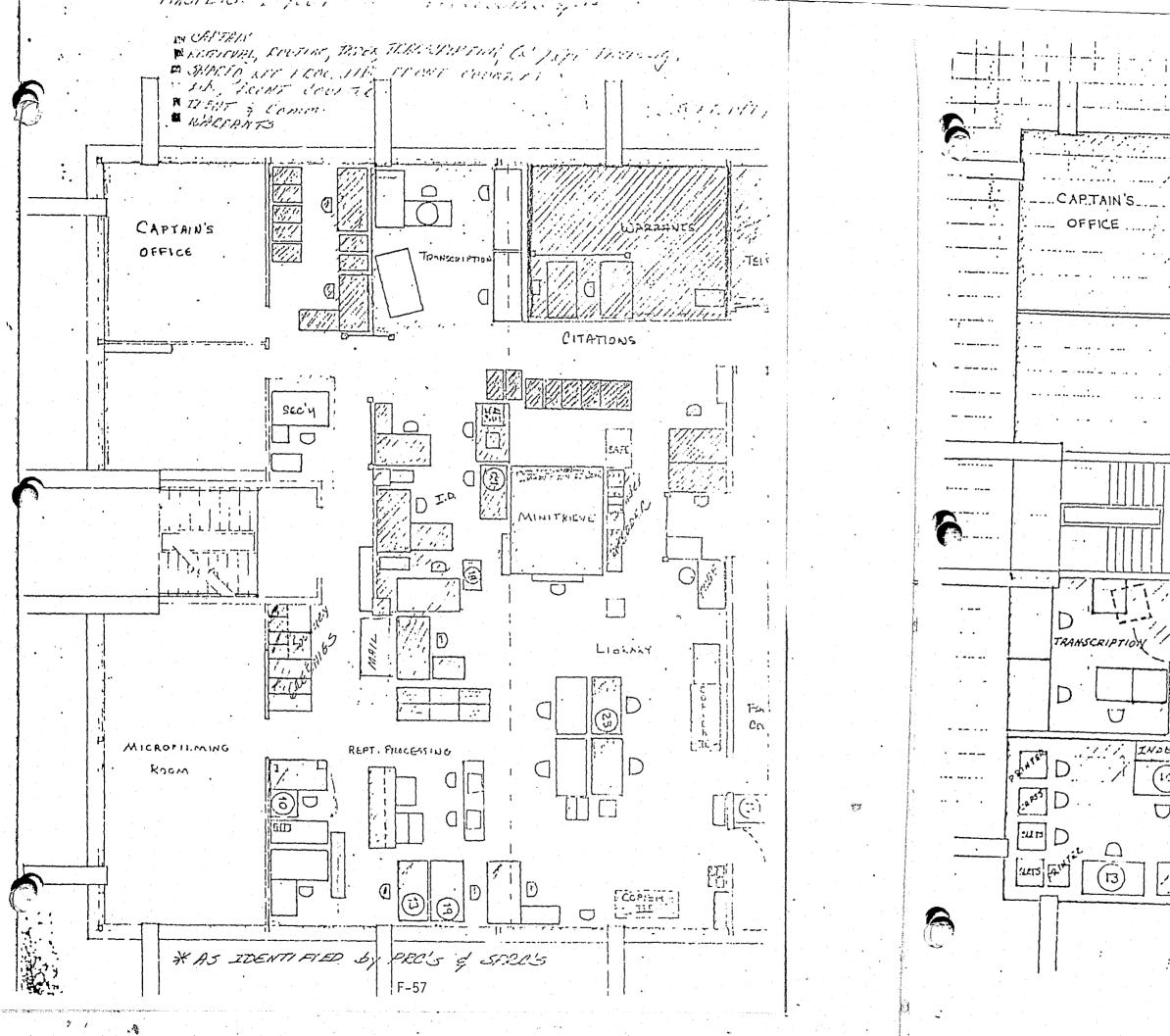
NOTES ON FLOORPLAN ALTERNATIVES FOR RECORDS DIVISION

Separates functional areas. Minimizes cross traffic patterns. Centralizes hard copy a historical documents for easy access and officer walk-in. Centralizes terminal work space for report processing & enrichment functions. Transcription isolated in quiet area. Case review located near enrichment clerks, but not directly in terminal area. Terminal SJ18 not too Ear from FI or liaison.

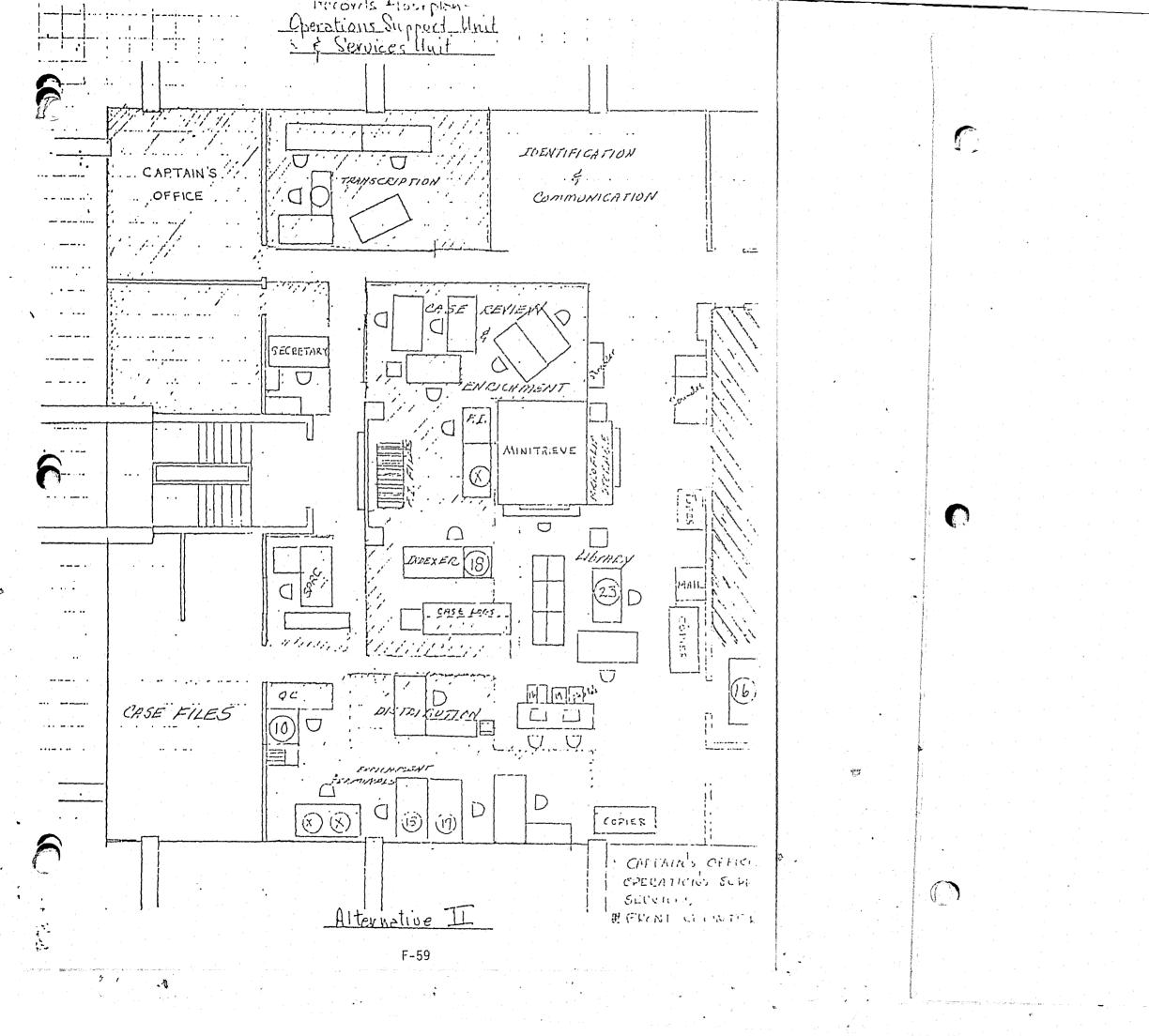
Con's - Terminal area somewhat removed from enrichment. Distribution somewhat removed from covier. Case control unit integrity violated by main passageway.

> Attempts to separate functions geographically with files & historical documents. Centrally located SPRC. Expanded transcription space. Case control unit integrity maintained. Moderate change from current configuration.

Not adequate space for new terminals. Wasted space in curtained area end of microfilm room.



Operations support Unit. E Services Unit 1 Ū.... D IDENTIFICATION ···· (]. CASE REVIEW EVALUATION COMMUNICATION • • • • يبيد الرحاد برجار الرواريان كرهاية ENRICH MENT SECTITUL. G D \Box SOUNDER X \square F.I. ! MINITRIEVE D 2 \Box 18) \square LABCOARY 153 COPIER CASE LOSS 113 (23) DISTRIBUTION E U INDEXEC 77 (10) C ∇ . . \square (]SPEC 19) COPIER CHETAINE OFFICE CHERN THERE SUPE 1. 5 SELVERES MIPONT CONTE Alternative F-58



Appendix G

Forms

Appendix G

SAN JOSE POLICE DEPARTMENT - REPORT RECEIPT 201 W. Mission St., Rocords Division, San Jose, California 9511-1 CASE NUMBER: DATE.

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-----IMS & WITNESSES OF VIOLENT CRIME ION, ASSISTANCE, FORMS AND SER of Christians & Jewi ness Assistance Pro . San Jose, Catit, 95 A WEEK - (100) 295-2 101 ELE 101 л С u G WOTHAS Y TESTIC SISTANCE ARE scbre londos publ Lamar el 245-2556 0 FOP INFORMATION, ASSISTATION, imed or volunta the deceased v equilary loss w energisetrivis th THE ABOV for cash p ndfor burial the State of depended on the u fued with forma with r certain c DDITION TO 7 may quality f ra intormación ; timas pueden t Emis must te f State of Canfi De, exregat for either Jstained phy gaily depend joort, Gaily acsum penses of th freed a peo triout sufferi ISC A LAS NOTICE TO

ORIGINAL REPORT RECEIPT USED BY PATROL OFFICERS

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OPERATION IDENTIFICATION

The San Jose Main Library and its neighborhood branches have available to you on a free, two week loan, electric engraving tools which may be checked out at the circulation desk. We urge you to take advantage of this service, and etch your driver's license number or California identification card number on valuables.

The problem of ownership identity of stolen goods is widespread. Unidentifiable property is continually being recovered by police departments throughout the state. Without identifiable markings, most of these valuables cannot be returned to the victim/ owner.

Remember, "Operation Identification" can help YOU get your stolen articles back. Take advantage of the program by visiting your nearest library and checking out these free engraving tools.



HOME OR BUSINESS SECURITY

Expert security advice can be yours at no cost. Just call and make an appointment with our Crime Prevention Unit. We will conduct a home or business security survey and advise you on ways to make your property less vulnerable to crime. No method is foolproof, but there are techniques you can employ to discourage the would-be intruder. You are in no way obligated to buy expensive devices, but may choose or pass on any or all of the suggestions made. There are many things you can do that cost you nothing.

By request, "Home Alert" meetings are conducted in neighborhoods to inform citizens of security techniques and to encourage cooperative crime prevention efforts such as informing police of suspicious persons or vehicles. Remember, your interests are our interests, and through mutual aid, we can defeat the intruder.

For information contact . . .

SAN JOSE POLICE DEPARTMENT

Crime Prevention Unit

277-4133

JOSEFH D. MCNAMARA Chief of Folice





SAN JOSE

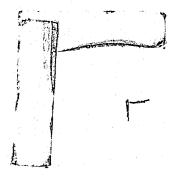
POLICE DEPARTMENT



INFORMATION BULLETIN

for the

CRIME VICTIM



ATION FOR A BURGLARY VICTIM

The officer who took the initial report of your case will file the report at Police headquarters. Your case has been assigned a case number to which you should refer when making inquiries.

Your case number is At present, your case is classified as:

____ "Open, active."

If you have additional information or need to inquire concerning the progress of your case, please call the Burglary Investigation Unit at 277-4401, Monday through Friday, 9:00 a.m. to 5:00 p.m.

"Open, but inactive."

At this time, it appears your case has limited potential evidence for solvability. Be assured Levery report of a burglary is reviewed by officers concerned with this type of crime and every possible investigative step is taken to identify those responsible for the burglary and to recover your property. If you have additional information from your own observations, from neighbors or others who may have witnessed any suspicious activity in the vicinity, please call the Victim Services Officer, 277-5428 Monday through Friday, 9:00 a.m. to 5:00 p.m.

Each case is important and we will give your case as much consideration as possible. Please be advised you will ordinarily not be contacted unless we need further information, new information has come to our attention, or we have solved your case. The following procedures are utilized in developing investigative leads which may result in the solution of a crime.

ACTIVE AND INACTIVE PROCESSES

- e All crime reports are entered into the Police Department's automated Records Indexing System. This system and other state and national systems are queried continually to discover crime patterns; similar crime operations concentrated in particular geographic areas or having distinctive characteristics such as method of entry, type of articles stolen, anything left at the crime scene, etc.
- O Arrests of criminals made by the San Jose Police Department or other agencies are closely checked to see if they could be responsible for your offense. Their fingerprints are checked when applicable.
- GAll serial numbered items are entered into a statewide computer.
- Very valuable items are entered into a national computer. This applies to stolen articles valued at \$5,000 or more or coupled with more serious crimes such as murder, rape, and federal violations.
- Teletypes are sent out to other agencies where the items stolen, or the supsects, if known, can be identified.
- Local pawn records are checked periodically.
- Teletypes from other agencies are checked daily.
- Property held by this department or other departments is closely checked in an effort to return it to the legal owner.

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- make.

OTHER POINTS TO CONSIDER

- number.
- deposit box.

YOU HAVE A RESPONSIBILITY TO ...

Make every effort to obtain any serial numbers of articles stolen.

S Keep the Police Department advised of any information you may learn that will be of assistance to the investigation.

ب ...

• Make sure that you list all stolen items in your report as accurately as possible so that officers of this agency or any other police. agency receiving our teletypes will have the best possible description of your property.

If the return of your property, or prosecution of the offender, are important to you, you must keep your police department notified of any change of address you may

• Take measures to make yourself, your house, apartment, or store, more secure against future attacks or intruders. Consider marking your valuable items with your driver's license number or California identification card

• Record serial numbers of items and keep them in a safe place.

• Place valuable items such as jewelry in a safe

Keep in mind that your police department will make every effort to locate your property and/or arrest the offender, but officers must rely on you to supply the most accurate and up-to-date information available.

		RKSHEET					CASE NUMBER:		·····
Return corr	rected forms within days	. Ext. 5428)	ASSIGNED INVESTIGATOR		INVESTIGATOR COMMENTS:				
INFORMATI		TY REVIEW	LINAL RUS DISPOSITION						
								· · · · · · · · · · · · · · · · · · ·	
	ements								
							······		
	tor: V, W, RP.							<u></u>	
	tor/Suspect/Arrestee	•							
						VICTIM/WITNESS CONT	ACT INFORMATION		
					· · ·	Circle: V=Victim W=Witne			
: 							ess nr-neporting Party		
	CASE EN	NRICHMENT			Last	First M.J.	TYPE OF CONTACT:	DATE	F
. INQUIRY	ATTACHED INOUIRY	ATTACHED			V W RP		- In Person		
CODE					Address	Ph	Ph. Citizen Initiated		
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TELETYPES REG							Prop. Release		
TELETYPES REG	SOLVABIL				I.D. No Name		Prop. Release		
TELETYPES REC		LITY ELEMENTS			L.D. No Name L.D. No Name Last	First M.I.	Prop. Release		
COMMENTS:	ACTIVE	LITY ELEMENTS	INACTIVE		I.D. No Name	First M.I.			
CE RPT	ACTIVE SOLVABIL	LITY ELEMENTS CE RPT	INACTIVE		L.D. No Name L.D. No Name Last V W RP	First M.I.			
CE RPT	ACTIVE SOLVABIL	CE RPT	INACTIVE		I.D. No Name Last V W RP Address	First M.1.			
CE RPT	ACTIVE SOLVABIL SPECT(S) Suspect(s) in custody? Suspect named or namable? Suspect identifiable, describable or locatable?	CE RPT CE RPT PRO 11. I PHY	INACTIVE		L.D. No Name Last V W RP Address Bus Address	First M.I.			
CE RPT	ACTIVE SOLVABIL	CE RPT	INACTIVE PERTY LOSS Property locatable with reasonable follow SICAL EVIDENCE Evidence technician involved?		L.D. No Name Last V W RP Address Bus Address Foreign language needed? Yes No	First M.1. Ph Ph o Type			
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APPENDIX H

DISTRICT/BEAT RESTRUCTURING PROJECT

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Appendix H

BEAT RESTRUCTURING PROJECT

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M. R. "Bud" Bye

ICAP Grant

Elba R. Lu Operations Support Unit

SAN JOSE POLICE DEPARTMENT SAN JOSE, CALIFORNIA

March 16, 1981

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I. PURPOSE

The primary purpose of the Beat Restructuring Project was to review the existing forty-three beat configuration and, if the need was identified, to devise an improved beat plan for implementation in January 1981. The secondary purpose was to develop the necessary methodology and provide sufficient documentation to facilitate future projects of the same nature.

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II. BACKGROUND

In the San Jose Police Department, the most common and wellknown reporting area is the police beat. Patrol officers are assigned to beats and the beat number is captured in most documents generated by the Department. A police district is composed of several beats; a beat, in turn, is composed of several BBB's (Beat Building Blocks).

In 1973, the basic BBB map was developed by experienced Bureau of Field Operations personnel, using natural boundaries such as rivers, railroad tracks, and major thoroughfares, and taking into account personal knowledge of neighborhood characteristics to form neighborhood clusters, Initially, two hundred fortyeight BBB's were devised; these were then revised and finally grouped into a forty beat structure. In 1975, three of the forty beats were subdivided to allow for increases in population and police workload. In 1976, in preparation for the implementation of an automated geo-reference file as part of the CAPS (Computer Assisted Public Safety) system and to facilitate demographic analyses, the BBB's were further split into a total of three hundred thirty-six blocks that stayed within Census Tract boundaries. The forty-three beat configuration remained unchanged from 1975 until 1978, when beats were regrouped from seven into eight districts without altering beat boundaries. The purpose of re-districting was to equalize the District Sergeants' span of control in addition to placing all of the downtown area within one district.

III. CONSTRAINTS

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In summary, the initial forty beat structure developed in 1973 has remained basically unchanged for the past seven years except for the subdividing in 1975 of three peripheral beats to allow for population growth. In the meantime, the Department has handled workload increases and changing demands for police services by re-districting, adjusting work hours, prioritizing calls, diverting calls to an Information Desk, and utilizing computer modeling and proportional manning methods to deploy patrol officers. The management philosophy that has evolved is that, in order to preserve area identification and continuity, beats should be designed for the long term, with fairly equalized workload demands but with allowances for size of area and remoteness and considerations of neighborhood integrity. Short-term adjustments such as day-to-day, shift-to-shift, and other changes in workload demand are reflected in manpower allocation plans, which are currently revised every six months.

If the Beat Restructuring Project identified a need for a new beat configuration, the only specific management constraints, based on realistic expectations of future personnel resources, were that the new plan require no more than nine districts and no more than fifty beats. This direction, originally based on a management judgement, was later reinforced by analysis.

In addition, it was decided from the onset of the project, that the project staff would work closely with Bureau of Field Operations personnel and with County Communications. The input from the Bureau of Field Operations would insure that plans were operationally sound and feasible; the input from County Communications would insure that plans incorporated radio channel coverage considerations. Any plan submitted to management would have to have the prior approval of the Bureau of Field Operations.

IV. REVIEW OF EXISTING BEAT STRUCTURE

A. OBJECTIVE

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The objective of reviewing the existing beat structure was to document any significant imbalances and problems in order to facilitate the decision regarding whether or not a new beat structure was necessary.

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B. METHODOLOGY

Review of the existing forty-three beat configuration consisted of:

- 1) a brief review of changes in population, area, and crime statistics from 1975 to 1979.
- 2) analyses of workload, response times, queuing of calls and cross-beat dispatching.
- 3) interviews with patrol personnel to field problems such as elongated travel times, difficult-access areas, isolated neighborhoods, and lack of neighborhood integrity.

The data sources were official FBI statistics, SJPD Annual Reports, SJPD Demographic Data Books, and CAPSS dispatch records for a 52week period encompassing from 9/17/78 to 9/15/79. For additional documentation, including file layouts and computer programs, please see Appendix A - Technical Documentation: Review of Existing Beat Structure.

C, RESULTS

1. Population, Area and Crime Statistics from 1975 to 1979.

As explained in the Background section, the existing fortythree beat configuration has remained basically unaltered since 1975. Between 1975 and 1979, the City of San Jose has experienced a population growth of 9% or approximately 50,000

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While the city-wide changes from 1975 to 1979 were relatively modest, the changes at the beat level fluctuated widely, as seen in Exhibits 2 and 3. Exhibit 2 displays the changes in population by beat, which ranged from an increase of almost 50% in Beat 38

persons. Population density (i.e., persons per square mile) has also increased by 4% or by approximately one hundred fifty additional persons per square mile. Many studies have pointed out the high correlation between population density and crime rates. San Jose has been fortunate in experiencing a reduction, albeit a very slight one, in the number of actual reported offenses per thousand population from one hundred twenty-five to one hundred twenty-three in spite of increased population density; however, the nature of the offenses has been changing to include an everincreasing number of violent felonies, up 71% from 1975 to 1979, which require considerably more patrol and investigative resources than property crimes.

Exhibit 1 displays the city-wide comparative statistics on population, area and crime as cited above. Comparisons on patrol workload in terms of calls for service per hour, actual field strength versus calls for service, or consumed time versus free patrol time would have been desirable, but data was unfortunately not available for 1975. It was also felt that comparing authorized field personnel would be misleading, since actual field strength can fall very short of the authorized number of personnel due to vacancies and long-term disabilities. In July 1980, for example, only 319 out of 407 patrol officer positions were currently filled. It is therefore highly recommended that the Department maintain accurate, systematic statistics on actual field strength, hours worked, consumed time, free patrol time, and number of events handled; evaluation of different beat structures and deployment strategies would be greatly assisted. Much of the information is produced routinely, and thus the cost of maintaining such documentation would be minimal.

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to increases of less than 1% in Beats 24, 25, 52, 75 and 76. Beat 25, with a loss of almost 30%, was an anomaly due to the de-annexation of the western-most part of the City. In terms of sheer numbers, Beat 64 increased by over 7000 persons while Beat 75 increased by less than 50.

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Exhibit 3 show the changes in reported offenses by beat, which ranged from an increase of over 110% in Beat 11 to a decrease of almost 16% in Beat 12. Beat 35 increased by the most number of reported offenses (over twelve hundred) while Beat 16 decreased the most (over three hundred).

The picture that emerges from an analysis of Exhibits 1 - 3 is therefore that of a fast-growing city, with population increasing faster than area, and with extremely wide differences in population and crime changes at the neighborhood or beat levels. These large shifts in population and reported offenses mean that demand for police services have also shifted significantly within the city boundaries.

2. <u>Workload, Response Times, Queuing of Calls, and Cross Beat</u> Dispatching.

As expected from the shifts in population and crime, an analysis of calls for service (Priorities 1-4) revealed severe disparity in workload at the beat and district levels. Exhibit 4 shows the number of calls for service (CFS) by beat during the 52 week period; CFS ranged from 2375 per year in Beat 13 to 6765 in Beat 76. Exhibit 5 displays the number of CFS by district; CFS ranged from 19,978 per year in District 2 to 31,989 in District 7.

The Department has corrected for these disparities by reallocating patrol personnel proportionally every few months. This process has provided a capability to respond to CFS levels and maintain average response times to priority 1 and 2 incidents within desired limits. However, addressing CFS disparities only by proportional staffing at the officer level has created a span of control problem at the supervisory levels. For example, field supervisors in Č7

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District 2 span four to seven officers; supervision in District 7 span six to nine officers and, since District 7 is a training district, the span of control can double when trainees are graduated from academy classes.

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In addition, while city-wide average response times were within desired limits, response times to different parts of the city differed significantly. As shown in Exhibit 6, the city-wide average for Priority 1 CFS was 5 minutes and 7 seconds; however, the average for Beat 25 was 7 minutes and 53 seconds while the average for Beat 34 was only 3 minutes and 31 seconds. Priorities 2 and 3 show similar wide ranges in average response times. Similarly, Exhibit 7 displays an analysis of queued calls which reveals even greater disparities. For example, the desired average response time for Priority 2 CFS is 10 minutes; city-wide, 34% of Priority 2 CFS had to wait longer than 10 minutes, but at the beat level, 52% of the Priority 2 CFS in Beat 67 had to wait longer than 10 minutes compared to only 17% of the Priority 2 CFS in Beat 72.

An analysis of cross-beat dispatching (dispatching a unit other than the beat car to a given beat) during the 52-week period was conducted after excluding traffic events, since policy on dispatching on traffic events was not consistent during the study period. The data is displayed in Exhibit 8. Considering both primary units and fill units, Beat 56 had the least amount of cross-beat dispatching (44%); i.e., 56% of the time, the beat car handled the assignments in Beat 56. In contrast, Beat 13 was assigned a car other than the beat car 76% of the time; i.e., 24% of the time the beat car handled the assignments in Beat 13. The large percentage of cross-beat dispatching (62,4%) is a symptom of imbalanced beats and workloads; the imbalance creates a vicious circle in which a relatively light beat must furnish its beat car to other beats and then must borrow an outside beat car to service its CFS, hence extending travel times and therefore response times.

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In general, the analyses revealed severe imbalances in workload, response times and queuing of calls as well as a high degree of cross-beat dispatching.

3. Interviews with Patrol Personnel

Project staff conducted a series of meetings with patrol supervisors during which the supervisors were asked to identify tactical or response problems with the existing district/beat structure. Meetings were scheduled during working hours of each shift and repeated for each "half" of the work week so that availability was maximized.

PROBLEMS IDENTIFIED:

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a) District 3: Beat 35 was identified as being excessively large and heavy in workload. This problem is compounded by Eastridge and the development of Lake Cunningham Park.

b) Beat 36 north of Story Road was identified as being a tactical problem because of limited access from the south from where the district's units normally respond.

c) Beat 38 was identified as an access problem which will compound as residential development continues during the 1980's.

d) District 4: District/beats and radio channel assignments were no longer oriented to the Willow Glen community; it was fragmented by three districts on three radio channels.

e) District 5: The extreme length of this district and the remoteness of the Alviso community was viewed as a substantial problem. Industrial development is heavy in the southern area of the Alviso Beat. Reduction of the north-south length of this district by re-attaching Alviso to the District 1 area was suggested.

f) District 7: Portions of the district which lie east of Hwy. 101 and south of I280 were identified as being tactical problems.

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Meetings with GSA-Communications managers revealed channel overload problems on SJ 1 (D-1 and D-3) and SJ 4 (D-4 and D-6). Their view was that these pairings should be changed as soon as possible.

D, CONCLUSIONS

Analysis of the existing beat structure revealed severe imbalances in terms of population, crime, patrol workload, response times, queuing of calls, and cross-beat dispatching. Specific problems were pinpointed by Bureau of Field Operations personnel which could not be addressed with the existing beat structure. It was therefore concluded that a revised beat structure configuration was necessary.

They have limited access from the interior of District 7 (freeway crossings only) which isolated them from the main part of the district and its assigned team(s). District 7 teams were the only operators on the assigned radio channel (SJ 9) which compounded the geographical isolation problem with a communications problem; all district teams bordering the areas in question were normally on other radio channels. q) District 8: The southern boundary of the district where it meets District 6 was identified as a tactical and communications

problem. The assigned radio channel (SJ 3) was not designed to serve the area south of the ridgeline defined by San Ramon, Skyway, and Blom Drives, however no BBB boundary existed which would provide for the use of the subject ridgeline as a district and channel boundary. Access to streets from Skyway north is from the north (D-8); access to streets south of Skyway is from the South (D-6). District 8 units which crossed the ridgeline to reach the southernmost area of their district were forced to change radio channels.

V. DESIGN OF NEW BEAT STRUCTURE

A. OBJECTIVES

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The design of the new beat structure had the following objectives:

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- 1. To establish the number of beats which the Department can reasonably expect to staff during the expected life of the plan (approximately 5 years).
- 2. To reduce the imbalance of calls for service at the beat and district levels.
- 3. To reorient districts and beats to communities and street layouts in order to provide a more effective police response to people and places needing services.
- 4. To have a positive impact on response times, cross-beat dispatching, radio operator workloads, and supervisory spans of control.

B. METHODOLOGY

The first step in the design of the new beat structure was to establish the maximum number of beats that the Department could reasonably expect to staff during the next five years. In order to do this, several factors were taken into account: the percentages of actual strength required to staff proportionately by watch or shift, the fact that there were twenty special assignments such as parks and walking units, the Department's policy of assigning a minimum of eighty positions to the third watch (midnight shift) for officer safety considerations, and an estimated 25% absenteeism factor which includes vacations, sick leave, disability leave, and court appearance. The results are shown in the next section.

Before any analyses or beat designs could be attempted, a geo-coded data base was necessary. The same data used in the review of the existing beat system was passed against a geo-reference file in

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order to append BBB (Beat Building Block) and state-plane co-ordinate information; any rejects were geo-coded manually. The resulting data base encompassed the 52-week period from 9/17/78 to 9/15/79 and consisted of 190,326 dispatch events. For additional documentation on file layouts and the geo-coding process, see Appendices B and C,

Once the data collection phase was over, a project team was established consisting of sworn officers, civilian analysts and appropriate support staff. The sworn and civilian staff worked in parallel: the sworn staff would design different alternatives based on statistical data and their specialized knowledge of the city and police problems, while the civilian staff analyzed the various alternatives and fed them back to the sworn officers. The process flow is depicted in Exhibit 9.

Most of the beat design was accomplished by manually drawing boundaries on map overlays, A parallel mapping effort was carried out with the assistance of the City's Information Systems on the newly-acquired computer graphics system. Due to the tight timelines of the project and the need to digitize a very detailed base map, the automated maps were not available for use in time to eliminate the need for manually-created maps. The parallel mapping effort served, however, to validate results, to produce a base map which will be very useful, and to create small-scale maps for dissemination; the effort also served to pave the way for a powerful new tool that can be used efficiently in the future. The computer graphics system also produced summary reports that were used to check statistical analyses carried out using SPSS (Statistical Package for the Social Sciences) software.

The initial statistical analysis consisted of aggregating CFS (calls for service) at the BBB level in order to provide the sworn officers with a measure of workload to aid them in beat design. A base map was drawn with BBB boundaries and CFS information. Each alternative was then drawn on a map overlay. One advantage of this process was that sworn officers increased their awareness concerning inherent access problems as well as particularly busy areas; as a result, the number of feasible combinations was greatly reduced and only ten different alternatives were initially designed. A second advantage of performing the first preliminary designs manually was that it provided a way of eliciting additional input from other patrol officers who stopped by the work area.

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While the preliminary design process went on, the question of how to choose the best design was addressed. Analysis using the Hypercube Model could provide a number of useful performance measures, and it was decided to use the model as part of the design process. However, some of Hypercube's constraints, such as the maximum number of atoms or BBB's that could be analyzed at one time and assumption that all cars are available to any call unless busy, violated the Department's established policies. Inputting a great number of combinations into the model was also very time-consuming. For these reasons, it was finally decided to use the Hypercube Model toward the end of the process, when fewer alternatives would be under consideration and beats were being grouped into districts and districts into radio channels. Until the model could be used, it was desirable to have an intermediate process that would allow comparison among the various alternatives in a quantifiable manner.

In order to accomplish this, a new data file was created which consisted of one event record per BBB. The record contained data which would be needed for Hypercube analysis as well as many other variables relating to workload by priority or by time of day or day of week. The data file initially had 336 records and 44 variables per record (See Appendix C for the file layout). A correlation analysis was then performed on all the variables relating to workload. A 42 x 42 correlation matrix

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was studied and, as expected, total CFS correlated highly with most variables. Total CFS was therefore considered the primary variable. All variables correlating less than 0.95 with total CFS and with each other were isolated and considered secondary variables; this yielded five variables that could be used in addition to total CFS to judge the various beat and district designs. Finally, in order to be able to compare widely different beat designs with different number of beats, the coefficient of variation was selected as the statistic to be computed for the primary and for each secondary variable. The coefficient of variation is a measure of relative dispersion which expresses the standard deviation of a distribution as a percent of the mean; in other words, the coefficient of variation would allow comparison of the imbalance in, say, a 40-beat design versus a 48-beat design by standardizing the standard deviation relative to the mean or arithmatic average.

At this stage, it was formulated that the intermediate "beat" designs would have the following characteristics:

1. Be acceptable from a tactical point of view;

2. Reduce the existing imbalance at the beat and district level (measured by the coefficient of variation or CV) with regard to CFS and the five secondary variables.

After comparing the initial ten beat designs, minor modifications were made, including the splitting of three BBB's to allow better radio coverage and easier road access within the beat. Three beat designs were identified as the best from both tactical and statistical reasons, and these three designs were presented to a committee from the Bureau of Field Operations (BFO). The BFO committee was composed of command officers selected by the BFO Deputy Chief and of volunteer officers from all ranks. After several meetings, the committee had chosen a specific beat design with some additional recommendations on boundary changes to be evaluated.

The new design was evaluated and then analyzed relative to district and radio channel considerations. The Hypercube Queuing Model was employed at this stage; the model utilizes queuing theory to calculate performance measures such as workloads of units, travel time, and ' probability of calls having to wait for an available unit. A special FORTRAN program was written to interface between the BBB data file and the Hypercube Model and thus facilitate data input to the model. The FORTRAN program and the data requirements for the model are listed in Appendix C. A final comparison was made on the primary and secondary criteria earlier established as well as on the performance measures calculated by Hypercube. The final design, specifying beats, districts and radio channels, was reviewed by the project staff committee, and finally approved by the Department's command staff.

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The last step in the design process was to identify computerized files that would need revision prior to implementation. The two automated systems affected by the beat changes were the dispatch system (Computer Assisted Public Safety System - CAPSS) and the reported offenses system (Reporting Indexing System - RIS). The specific revisions pertained to the following files and programs:

- 1. Beat centroids (CAPSS)
- 2. Valid centroids (CAPSS)
- 3. Recommended units (CAPSS)
- 4. Geographic reference file (CAPSS)
- 5. Weekly and monthly batch reports (RIS)

Appropriate Departmental and inter-agency notification was made to insure that the revisions would be completed in time for the project's implementation date. In addition, one satellite receiver change was requested of GSA Communications to correct one weak area of hand radio reception caused by the reassignment of radio channels.

С. RESULTS

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Exhibit 10 shows the results of calculating the number of beats

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as follows:

It can be seen that all three alternatives were a vast improvement over the existing beat structure, with the coefficient of variation in the distribution of CFS reduced from 25.90 in the existing design to 5,79 in the "best" case. The secondary variables also were more balanced in all of the proposed new designs,

that the Department could expect to staff given different resource levels. The first resource level, 320 positions, was the existing level, and the estimated number of beats staffed (i.e., positions fielded) per day was confirmed by BFO command staff. It appeared then that even the existing 43 beats could not be staffed every day, and it was debated whether beat restructuring should proceed. However, reducing workload imbalance and eliminating some serious access problems still could be achieved by beat restructuring, while the Department was training many new recruits and was embarking on a very active recruiting campaign to bring available strength closer to authorized strength (440 positions), In light of the difficulty in staffing beats, 48 beats rather than 50 beats was considered the maximum number that the Department should consider during the next

Exhibit 11 shows the comparative statistics on the primary and secondary variables for the three "best" beat designs. The primary variable was CFS; the five secondary variables (variables that correlated less than .95 with CFS and with each other) were named

> CARS = total number of units assigned PRI1 = number of Priority 1 CFS HIBLK = number of CFS from 2100 (Sat) to 0059 (Sun) EBLK2 = number of Priority 1 & 2 CFS from 0700 to 1559 AEBLK1= number of cars assigned to Priority 1 & 2 CFS from 0100 to 0659

Similarly, Exhibit 12 displays the comparative statistics for the initial three district designs and the existing district design.

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Again, the imbalance in total CFS as reflected by the coefficient of variation dropped from 15.36 to 2.67 in the "best" case, with modest improvements in the secondary variables, as well.

The Hypercube Model was next used to compare the existing structure with the three best alternatives, with radio channel assignment options determined by GSA Communications and project staff. Handpack radio testing was carried out in questionable areas. One specific beat/district design and three radio channel alternatives were finally selected; all three alternatives were about 25% better balanced in terms of CFS by radio channel than the existing structure. To make the Hypercube comparisons as valid as possible, the same time of the day (1600 - 2100) was used in all analyses; this time is a stable, high-volume period during which all beats are normally covered.

A summary of the performance measures calculated by the Hypercube Oueuing Model is shown in Exhibit 13. The last three performance measures (average travel time, average travel for queued calls, and standard deviation of workload) had to be estimated for the existing structure since one of the radio channels (District 8-Channel 3) exceeded the model's maximum saturation point. This illustrated the danger of having a fairly small district, with few resources, be in a channel by itself with no other district as backup. In real life, of course, out-of-channel units would be dispatched and also units might work without taking lunch or dinner breaks if priority calls were queued. Hypercube computed an average utilization factor of 76%, indicating severe staffing problems. The three new designs all produced about a 10% improvement in queue saturation (i.e., the probability of a call having to wait in queue dropped from 33.1% in the existing structure to about 30% in the alternatives). Improvements were observed in all other performance measures. The three alternatives seemed fairly comparable, with alternative 2 showing the most impact in reducing workload imbalance compared to the other two alternatives.

Alternative 2 was finally chosen by the BFO committee upon the recommendation of the project staff. Exhibit 14 displays the comparison between the existing design and the final proposed design for the coefficient of variation analyses and the Hypercube Queuing Model analyses. It can be seen that the distribution of CFS for the new design was significantly more balanced than in the existing design at all levels: the coefficient of variation dropped from 25.90 to 9.24 (a 64% improvement) for the beat structure, from 15.36 to 10.73 (a 30% improvement) for the district structure, and from 44.22 to 20.78 (a 53% improvement) for the radio channel structure. The improvements in the five secondary variables were also substantial, ranging from 14% to 57% improvement, with only one variable (HIBLK meaning CFS from Sat. 2100 hrs. to Sun. 0059 hrs.) showing a larger relative dispersion. The increase in the coefficient of variation in that case was explained by the decision of maintaining neighborhood integrity in areas such as the downtown core area or the King and Story area, traditionally very busy areas on week-end nights; it was still the consensus of the project staff and the committee that those areas should stay undivided.

Exhibit 14 also shows that the Hypercube Model's performance measures were encouraging: a decrease in the probability of queue saturation from 33.1 to 29.6 (a 10.6% improvement), positive small reductions in percent of out-of-beat dispatching and travel times, and a reduction in the standard deviation of workload by unit from an estimated minimum .017 to .012 (a 29% decrease).

The percent changes in the performance measures are summarized in Exhibit 15, with a (-) change indicating an improvement in the given measure and a (+) change indicating no improvement in the given measure. Over-all, the performance measures indicated substantial improvement. Finally, Exhibits 16 and 17, respectively, show the outline of the existing beat structure and the proposed structure.

D. <u>CONCLUSIONS</u>

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The proposed new design was substantially more balanced at the beat, district, and radio channel levels. Given the same level of calls for

service and the same level of resources, it would be expected that the proposed new design could improve performance measures, primarily the probability of a call having to wait for an available unit and, to a lesser extent, travel times and percent of out-of-beat dispatching. Given the same level of calls for service and the same level of resources. patrol unit workload could also be substantially better balanced.

VI. SUMMARY AND RECOMMENDATIONS

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The existing structure was a 43-beat configuration grouped into 8 districts and 5 radio channels. Analysis of the existing beat structure revealed severe imbalances in terms of population, crime, patrol workload, response times, queuing of calls, and cross-beat dispatching. Specific problems were pinpointed by Bureau of Field Operations personnel which could not be addressed with the existing beat structure. It was therefore concluded that a revised beat structure configuration was necessary.

The proposed new design consisted of a 48-beat configuration grouped into 9 districts and 5 radio channels. The proposed new design was substantially more balanced at the beat, district, and radio channel levels. Given the same level of calls for service and the same level of resources, it would be expected that the proposed new structure could improve performance measures, primarily the probability of a call having to wait for an available unit and, to a lesser extent, travel times and percent of out-of-beat dispatching. Given the same level of calls for service and the same level of resources, patrol unit workload could also be substantially more balanced.

The present report and the technical appendices provide a detailed account of the methodology employed during the project and sufficient documentation to allow the process to be replicated in the future. Finally, although resource allocation was not within the scope of the Beat Restructuring Project, beat design and resource allocation are inextricably bound together, and the same project staff went on from

- Future beat designs or resource allocation recommendations should be performed by sworn/civilian teams working in close coordination with the Bureau of Field Operations, the Systems Development Unit in Research and Development, and County Communications.

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- Additional personnel within the Department should acquire skills in computer graphics systems, computer modeling, and complex data manipulation using software packages. Lack of continuity in these analytical skills may be a serious problem in the future.

- Statistics on actual field strength, hours worked, consumed time, free patrol time, and number of events handled should be collected and maintained within one unit or section. Much of the information is routinely made available but scattered throughout the Department or not saved for later analysis.

- Use of the CAPSS Geo-file by County Communications should be encouraged whenever operational needs are not adversely affected in order to avoid dispatching the wrong units to calls for service, thereby lessening out-of-beat dispatching. Geo-coding the project's data base showed that when the geo-file was bypassed, the incorrect beat was often listed.

- The Hypercube Queuing Model should be incorporated into future resource allocation plans in order to optimize the placement of units.

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this project to provide initial recommendations on resource allocation to the Bureau of Field Operations. While carrying out the Beat Restructuring Project and the resource allocation analyses, the project staff noted significant strengths and weaknesses in the Department's process. These noted strengths and weaknesses are summarized in the following recommendations.

- Channel overload problems should eventually be resolved by adding a new channel; reassigning areas to channels cannot fully alleviate a very serious problem of channel overload.

- A staggered watch-start time should be explored in order to alleviate congestion at Central Supply, reduce the time lag until units arrive at their beats, and improve coverage at the beginning and end of shifts. One simple approach might be to have each channel with two districts begin one of the districts one hour earlier than the other district, thereby still maintaining team integrity.
- A flexible "Basic Car Plan" similar to L.A.P.D. should be investigated to avoid leaving beat-sized holes in staffing when not enough resources are available. However, it should be stressed that much planning effort would have to go into implementing such a plan.

1.	Population
2.	Population
3.	Reported O
4.	Calls for S
5.	Calls for S
6.	Existing Be
7.	Existing Be Desired Ave
8.	Existing Cr
9.	Design of N
10.	Calculation
11.	Workload Co
12.	Workload Co
13.	Hypercube A
14.	Existing De
15.	Percent Cha
16.	Existing Bea

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INDEX OF EXHIBITS

1, Area, and Crime: 1975-1979 by Beat: 1975-1979)ffenses by Beat: 1975-1979 • Service by Beat (9/17/78-9/15/79) Service by District (9/17/78-9/15/79) eat Structure: Average Response Time eat Structure: Percentage of Calls Waiting Longer than erage Response Time ross-Beat Dispatching New Beat Structure: Process Flow of Beat Staffing Based on Available Resources omparison for Beat Alternatives omparison for District Alternatives nalyses esign vs. Proposed Design inges in Performance Measures at Design 17. Proposed Beat Design

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<u>Exhibit 1</u>

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			1979 vs	. 1975		11
City Totals	1975	<u>1979</u>	Difference	<u>% Change</u>		12
opulation	557,700	607,900	+50,200	+9.0%		13 16
rea (Square Miles)	149.5	156.6	+7.1	+4.7%		18 19
opulation Density persons per sq. mile)	3730.4	3881.9	+151.5	+4.1%		21 22 23
otal Crimes	69,769	74,789	5,020	+7.2%		24 25
otal Crimes per ,000 Population	125.1	123.0	-2.1	-1.7%		33 34
Part I Violent Crimes*	1,892	3,236	1,344	+71.0%		35 36 38
Part I Violent Crimes Der 1,000 Population	3.4	5.3	+1.9	+55.9%		41 42
						43

* Includes homicide, robbery, rape and aggravated assault

<u>Exhibit 2</u>

POPULATION BY BEAT: 1975-1979

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<u>1975</u>	<u>1979</u>	DIFF.	% CHANGE	RANK*
17,251	19,966	2,715 -	15.7	13
6,266	6,440	174	2.8	32
4,514	5,846	1,332	29.5	6 .
21,604	23,045	1,441	6.7	25
8,760	12,357	3,597	41.1	3
8,899	10,335	1,436	16.1	11
11,750	12,019	269	2.3	34
16,862	18,242	1,380	8.2	21
15,439	15,675	236	1.5	37
13,896	14,024	128	0.9	39
34,564	24,314	-10,250	-29.7	43
7,825	8,333	508	6.5	27
12,548	13,700	1,152	9.2	20
16,190	22,952	6,762	41.8	2
14,802	17,608	2,806	19.0	9
10,040	15,016	4,976	49.6	1
25,135	26,156	1,021	4.1	29
17,057	18,179	1,122	6.6	26
18,774	20,218	1.444	7.7	24
19,762	21,680	1,918	9.7	19
28,841	34,714	5,873	20.4	8
6,000	6,173	173	2.9	31
7,542	7,606	64	0.8	40
8,456	9,139	683	8.1	22
8,582	9,789	1,207	14.1	15
8,654	10,173	1,519	17.6	10
5,383	5,801	418	7.8	23
22,132	25,277	3,145	14.2	14
20,252	27,331	7,079	35.0	4
17,795	20,063	2,268	12.7	16
13,564	14,966	1,402	10.3	18

Exhibit 2, cont'd.

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POPULATION BY BEAT (cont'd)

BEAT #	<u>1975</u>	<u>1979</u>	DIFF.	% CHANGE	<u>RANK</u> *
67	13,409	14,933	1,524	11.4	17
71	8,151	8,258	107	1.3	38
72	3,640	3,698	58	1.6	36
73	3,836	3,938	102	2.7	33
74	7,169	7,328	159	2.2	35
75	10,605	10,647	42	0.4	42
76	9,076	9,153	77	0.8	40
81	6,037	6,227	190	3.2	30
82	8,402	8,858	456	5.4	28
83	8,540	11,375	2,835	33.2	5
84	18,564	23,390	4,826	26.0	7
85	4,709	5,454	745	15.8	12
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*Beats are ranked according to the percentage change from 1975 to 1979. A rank of 1 indicates the highest increase.

Exhibit 3

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BEAT #

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1975

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838

1,055

2,144

1,620 1,833

1,397

1,412

2,049

1,304

1,745

2,067

1,158

2,303

2,070

1,661

1,187

1,499

1,821

1,581

1,098

1,260

1,082

1,215

1,318

1,225

1,426

2,124

2,049

935

513

REPORTED OFFENSES BY BEAT: 1975-1979

<u>1979</u>	DIFF.	% CHANGE	RANK*
1 540	015	111 0	1
1,549	815	111.0	1
889	-166	-15.7	43
746	- 92	-11.0	36
1,834	-310	-14.5	40
1,884	264	16.3	13
1,891	58	3.2	20
1,239	-158	-11.3	37
1,413	1	.1	.26
2,057	8	. 4	25
1,377	73	5.6	19
1,477	-268	-15.4	42
1,819	-248	-12.0	. 38
1,224	66	5.7	18
3,531	1,228	53.3	4
1,954	-116	- 5.6	31
981	468	91.2	2
1,525	-136	- 8.2	35
1,308	121	10.2	15
1,396	-103	- 6.9	33
1,763	- 58	- 3.2	29
2,126	545	34.5	9 ·
1,562	464	42.3	6
1,087	-173	-13.7	39
1,112	30	2.8	21
1,031	-184	-15.2	41
1,273	- 45	- 3.4	30
1,726	501	40.9	7
1,753	327	22.9	11
2,655	531	25.0	10
2,248	199	9.7	16
994	59	6.3	17

Exhibit 3, cont'd.

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		REPORTED OFF	ENSES (con't)		
<u>BEAT</u>	<u>1975</u>	<u>1979</u>	DIFF.	% CHANGE	RANK*
67	672	1,170	498	74.1	3
71	1,350	2,070	720	53.3	4
72	2,034	1,877	-157	- 7.7	34
73	1,365	1,377	12	0.9	23
74	1,517	1,529	12	0.8	24
75	863	985	122	14.1	14
76	1,431	1,423	- 8	6	27
81	1,137	1,060	- 77	- 6.8	32
82	1,060	1,027	- 33	- 3.1	28
83	1,822	1,841	19	1.0	22
84	1,775	2,422	647	36.5	8
85	1,133	1,375	242	21.4	12

*Beats are ranked according to the percentage change from 1975 to 1979. A rank of 1 indicates the highest increase.

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Beat

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Exhibit 4

CALLS FOR SERVICE BY BEAT

(9/17/78-9/15/79)

CFS	Beat	CFS
3703	51	3710
3191	52	4141
2375	53	3191
4360	54	3541
4571	55	3691
4857	56	. 5162
3549	62	4638
4380	64	6164
4860	65	6072
3507	66	3126
3682	67	3642
4725	71	5327
3316	72	6129
6622	73	4894
5997	74	5804
2527	75	3070
	76	6765
3905		
3424	81	3886
4360	82	3204
4374	83	5013
5111	84	6353
	85	3753

CALLS FOR SERVICE BY DISTRICT

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(9/17/78-9/15/79)

District	CFS
1	23,057
2	19,978
3	23,187
4	21,174
5	23,436
6	23,642
7	31,989
8	22,209

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Priority

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¹ Beat 25 had 20 Priority 1 calls during the 52-week period.
² Beat 34 had 12 Priority 1 calls during the 52-week period.

<u>Exhibit 6</u>

CURRENT BEAT STRUCTURE: AVERAGE RESPONSE TIME (Min:Sec)

City Total	Highest Beat	Lowest Beat	Range
5:07	7:53 (B.25) ¹	3:31 (B.34) ²	4:22
10:17	12:59 (B.67)	7:18 (B.72)	5:41
23:07	29:17 (B.67)	19:00 (B.81)	10:17

EXISTING BEAT STRUCTURE

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Percentage of Calls Waiting Longer than Desired Average Response Time

	DESIRED	Percentage Waiting Longer than Desired Average			
PRIORITY	AVERAGE	CITY TOTAL	HIGHEST BEAT	LOWEST BEAT	
1	5 min	36.0%	80.0% (B.25) ¹	8.3% (B.34) ²	
2	10 min	34.2%	51.9% (B.67)	17.2% (B.72)	
3	25 min	29.8%	39.1% (B.38)	16.1% (B.72)	

 1 Beat 25 had 20 Priority 1 calls during the 52 week period. 2 Beat 34 had 12 Priority 1 calls during the 52 week period.

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	Total	Assignme	ents	Assignme	nts to B	<u>eat Car</u>	<u>% Assign</u>	nents to B	<u>eat Car</u>
Beat	Primary	Fills	<u>Total</u>	Primary	Fills	<u>Total</u>	<u>% Primary</u>	<u>% Fills</u>	. <u>% Total</u>
11	3431	1159	4590	1692	165	1857	49.3	14.24	40.46
12	2949	1609	4558	1273	156	1429	43.2	9.70	31.35
13	2085	1150	3235	715	63	778	34.3	5.48	24.05
16	4000	1399	5399	1795	130	1925	44.9	9.29	35.66
18	4383	2116	6499	1838	209	2047	41.9	9.88	31.50
19	4400	1912	6312	1763	212	1975	40.1	1.09	31.29
21	3085	1361	4446	1188	82	1270	38.5	6.03	28.57
22	4072	1792	5864	2202	242	2444	54.1	13.51	41.68
23	4401	1824	6225	2407	316	2723	54.7	17.33	43.74
24	3213	1166	4379	1753	179	1932	54.6	15.35	44.12
25	3301	978	4279	2171	177	2348	65.8	18.10	54.87
33	4448	2188	6636	1803	224	2027	40.5	10.24	30.55
34	3003	1242	4245	1399	195	1594	46.6	15.70	37.55
35	6258	2397	8655	2949	368	3317	47.1	15.35	38.33
36	5507	2203	7710	2452	311	2763	44.5	14.12	35.84
38	2405	730	3135	1179	57	1236	49.0	7.81	39.43
41	3415	1244	4659	1580	123	1703	46.3	9.89	36.55
42	3067	1210	4277	1530	110	1640	49.9	9.09	38.35
43	3773	1552	5325	1959	173	2132	51.9	11.15	40.04
()44	4070	1706	5776	2136	255	2391	52.5	14.95	41.40
45	4611	1601	6212	2874	285	3159	62.3	17.80	50.85

Exhibit 8

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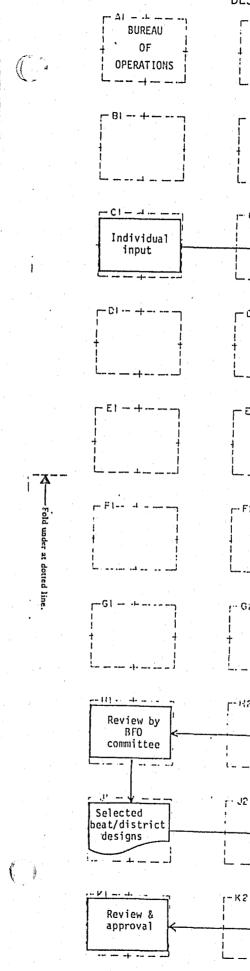
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EXISTING CROSS-BEAT DISPATCHING

Exhibit 8, continued

Pross-Beat Dispatching

	Total	Assignme	ents	Assignments to Beat Car % /			<u>% Assign</u> r	% Assignments to Beat Car		
Beat	Primary	<u>Fills</u>	<u>Total</u>	Primary	<u>Fills</u>	<u>Total</u>	<u>% Primary</u>	% Fills	<u>% Total</u>	
51	3288	1036	4324	1429	112	1541	43.5	10.81	35.64	
52	3777	1667	5444	1704	197	1901	45.1	11.82	34.92	
53	2776	1107	3883	1189	107	1296	42.8	9.67	33.38	
54	3147	1242	4389	1483	101	1584	47.1	8.13	36.09	
55	3409	1212	4621	1789	173	1962	52.5	14.28	42.46	
56	4411	1168	5579	2938	163	3101	66.6	13.96	55.59	
62	4225	1457	5682	2505	255	2760	59.3	17.50	48.58	
64	5603	2029	7632	3072	376	3448	54.8	18.53	45.18	
65	5630	2320	7950	2938	359	3297	52.2	15.48	41.47	
66	2896	890	3786	1044	83	1127	36.0	9.33	29.77	
67	3227	1017	4244	1802	110	1912	55.8	10.82	45.05	
71	4653	1920	6573	1885	326	2211	40.5	16.98	33.64	
72	5520	2366	7886	2041	324	2365	37.0	13.70	29.99	
73	4287	2028	6315	1689	285	1974	39.4	14.06	31.26	
74	5243	2326	7569	1880	213	2093	35.9	9.16	27.65	
75	2546	1131	3677	980	120	1100	38.5	10.61	29.92	
76	5925	2140	8065	2181	320	2501	36.8	14.96	31.01	
81	3371	1499	4870	1678	190	1868	49.8	12.68	38.36	
82	2777	1163	3940	1229	93	1322	44.3	8.00	33.55	
83	4539	2030	6569	2103	222	2325	46.3	10.94	35.39	
84	5802	2207	8009	2812	389	3201	48.5	17.63	39.97	
85	3537	1325	4862	1810	167	1977	51.2	12.61	40.66	
TOTAL	S <u>170,466</u>	67,819	238,285	80,839	8,717	89,556	47.4	12.80	37.60	



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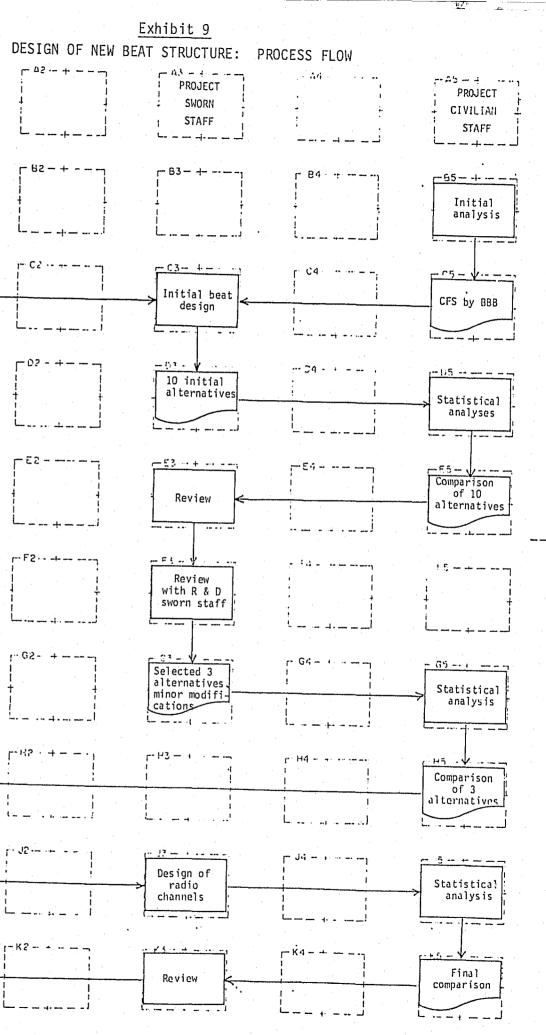
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	CALC	CULATION OF	F BEAT STAFF	ING BASED O	N AVAILABLE F	RESOURCES		
	Resources tions) Actual	Watch	Allocation Ideal	n by Watch Actual	Work Days Maximum	s per Week Expected	Beats Staffed on Average Day	
	······································	·						
320	300	1st	88.5	85	340	255	36.4	
		2nd	140.7	135	540	405	57.8	
•		3rd	70.8	80	320	240	34.3	
340	320	lst	94.5	93	372	279	39.8	
		2nd	150.0	147	588	441	63.0	
		3rd	75.5	80	320	240	34.3	
360*	340	lst	100.4	101	404	303	43.3	
		2nd	159.4	159	636	477	68.1	
		3rd	80.2	80	320	240	34.3	
440**	420	1st	124.0	124	496	372	53.1	:
•		2nd	196.9	197	788	591	84.4	
	•	3rd	99.1	99	396	297	42.4	
474***	454	1st	139.9	140	560	420	60.0	
		2nd	222.2	222	888	666	95.1	
		3rd	111.8	112	448	336	48.0	-

* Break-even for Third Watch (provides 80 positions under ideal distribution)
 ** Current plus vacancies (50) plus 70 new positions
 *** Fill 48 beats during Third Watch

Assumptions:

C

- Twenty special assignments subtracted from actual available resources.
 Minimum of 80 officers on Third Watch, the rest proportionally allocated.
 Percentages for proportional allocation: 29.52% to First Watch, 46.89% to Second Watch, 23.59% to Third Watch.
 Twenty-five percent absenteeism factor.

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No. of Beats

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VARIABLE*

CFS

CARS

PRI1

HIBLK

EBLK2 .

AEBLK1

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Exhibit 11

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STATISTIC	EXISTING	<u>A</u>	B	D	
Mean	4387.72	3930.67	4192.71	4288.00	
St D	1136.30	227.44	352.05	676.43	
CV	25.90	5.79	8.40	15.77	
Mean	6244.67	5594.19	5967.13	6102.75	
St D	1629.93	471.35	571.21	987.79	
CV	26.10	8.42	9.57	16.18	
				•	
Mean	45.14	40.44	43.13	44.11	
St D	29.33	22.13	22.53	24.83	
CV	64.98	54.72	52.24	56.29	
Mean	171.81	153.92	164.18	167.91	
St D	48.33	29.12	30.37	41.06	
CV	28.13	18.92	18.50	24.45	
Mean	528.84	473.75	505.33	516.82	
St D	169.10	473.75	88.74	114.66	
CV	31.98	17.36	17.56	22.18	
CV	51.90	17.50	17.50	22.10	
Mean	736.07	659.40	703.36	719.34	
St D	216.29	134.47	134.22	161.83	
CV	29.38	20.39	19.10	22.50	
	43	48	45		

WORKLOAD COMPARISON FOR BEAT ALTERNATIVES

*See Section V(C) for explanation of variable names

WORKLOAD COMPARISON FOR DISTRICT ALTERNATIVES

			Alte	rnati	v e				
VARIABLE*	STATISTIC	EXISTING	<u>A</u> .	<u>B</u>	<u>D</u>		- -		
CFS	Mean	23584.00	23584.00	20963.56	23584.00				
	S.D.	3621.50	629.40	821.01	2294.61				Average Utilization
	C.V.	15.36	2.67	3.92	9.73				Factor
•				· · · · · · ·					
CARS	Mean	33565.12	33565.12	29835.66	33565.12	,			Probability of
· · · · · ·	S.D.	5453.78	1296.28	1283.58	3489.03				Queue Saturation
	C.V.	16.25	3.86	4.30	10.39				
									% of Out-of-Beat Dispatching
PRI1	Mean	242.62	242.62	215.67	242.62				
	S.D.	64.01	48.26	37.35	52.54				Average Travel
	C.V.	26.38	19.89	17.32	21.66			ng va san	Time (minutes)
HIBLK	Mean	923.50	923.50	820.89	923.50				Average Travel Time
	S.D.	140.74	107.33	85.69	96.95				for Queued Calls (
	C.V.	15.24	11.62	10.44	10.50				
							а. С		Standard Deviation of Workload
EBLK2	Mean	2842.50	2842.50	2526.67	2842.50				OT WORKTOOU
	S.D.	464.44	188.38	184.09	402.73				
	C.V.	16.34	6.63	7.28	14.17				
			,						
AEBLK1	Mean	3956.38	3956.38	3516.78	3956.38				
	S.D.	861.49	470.11	434.86	687.95				NOTE: The same time
	C.V.	21.77	11.88	12.36	17.39				used in all o
· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·	·		<u> </u>	. *			* Actua] data; hyper
No. of Dis	tricts	8	8	9	8				not wait in queue

*See Section V(C) for explanation of variable names

### Exhibit 13

### HYPERCUBE ANALYSES

	Alternat	ives	
Existing	<u> </u>	II	III
n .763	.763	.763	.763
		· · · ·	
33.1	29.4	296	29.4
62.40+*	60.85	60.95	60.76
7.0+**	6.8	6.9	7.4
		. • · ·	
ne 10.5+ ^{**}	9.1	9.6	10.3
(minutes)			
.017+**	.014	.012	.014
		•	

me of day (1600-2100) and same number of units (58) were of the above analyses.

percube estimates would be higher since priority 3 calls do we in the model as in real life.

** Estimated from four out of five existing radio channels.

### EXISTING DESIGN VS. PROPOSED DESIGN

### Coefficient of Variation Calculations

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Beat Design			District	Design	Radio Ch	Radio Channels		
VARIABLE*	Existing	Proposed	Existing	Proposed	Existing	Proposed		
CFS	25.90	9.24	15.36	10.73	44.22	20.78		
CARS	26.10	11.19	16.25	11.68	27.10	20.00		
PRI1	64.98	55.87	26.38	22.32	34.90	27.95		
HIBLK	28.13	19.14	15.24	17.26	32.08	20.33		
EBLK2	31.98	19.35	16.34	11.42	30.48	18.79		
AEBLK1	29.38	21.60	21.77	14.19	24.24	19.83		

Hypercube Model Calculations	Existing	Proposed
Average Utilization Factor	.763	.763
Probability of Queue Saturation	33.1	29.6
% of Out-of-Beat Dispatching	62.40+	60.95
Average Travel Time (minutes)	7.0+	6.9
Average Travel Time for Queued Calls (minutes)	10.5+	9.6
Standard Deviation of Workload	.017+	.012

* See Section V(C) for explanation of variable names.

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# VARIARI F

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VARIABLE		
CFS		
CARS		
PRI1		
HIBLK		
EBLK2		
AEBLK1		

### Percent Change in

Average Utilizati Probability of Qu % of Out-of-Beat Average Travel T Average Travel T Standard Deviation of Workload

### Exhibit 15

### PERCENT CHANGES IN PERFORMANCE MEASURES

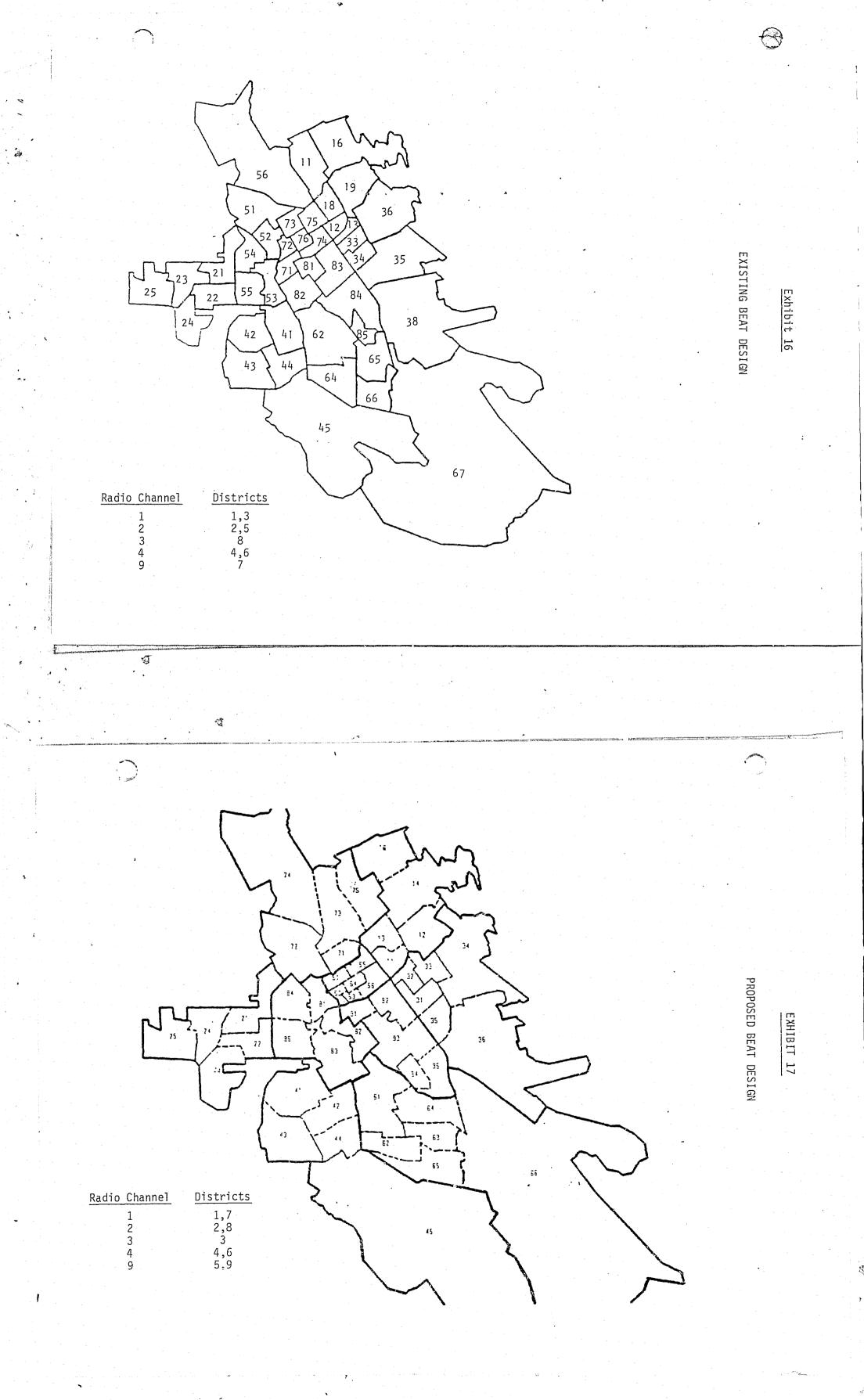
### Rercent Change in the Coefficient of Variation, Proposed versus Existing

District Design	Radio Channels
-30%	-53%
-28%	-26%
-15%	-20%
+13%	-37%
-30%	-38%
- 35%	-18%
	-30% -28% -15% +13% -30%

Hypercube Model	Measures,	Proposed	versus	Existing
	1			
ion Factor			0%	
ueue Saturation		-1	10%	
Dispatching		-	-2%	
ime			-1%	
ime for Queued C	alls	-	-8%	
on of Workload		-2	29%	

* A (-)% change is an improvement; a (+)% change is not an improvement.

** See Section V(C) for explanation of variable names.



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### Appendix I

Local Evaluator's Report

(SEE ATTACHED REPORT)

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Appendix I

Evaluation of the Third Year ICAP: Implementation of the Operations Support Unit

• SAN JOSE POLICE DEPARTMENT

San Jose, California

February 25, 1981

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Prepared By:

Hughes, Heiss & Associates San Mateo, California "This evaluation project was partially supported by a grant awarded by the Law Enforcement Assistance Administration, United States Department of Justice. Points of view or opinions stated in this publication are those of Hughes, Heiss & Associates and do not necessarily represent the official position of the United States Department of Justice."

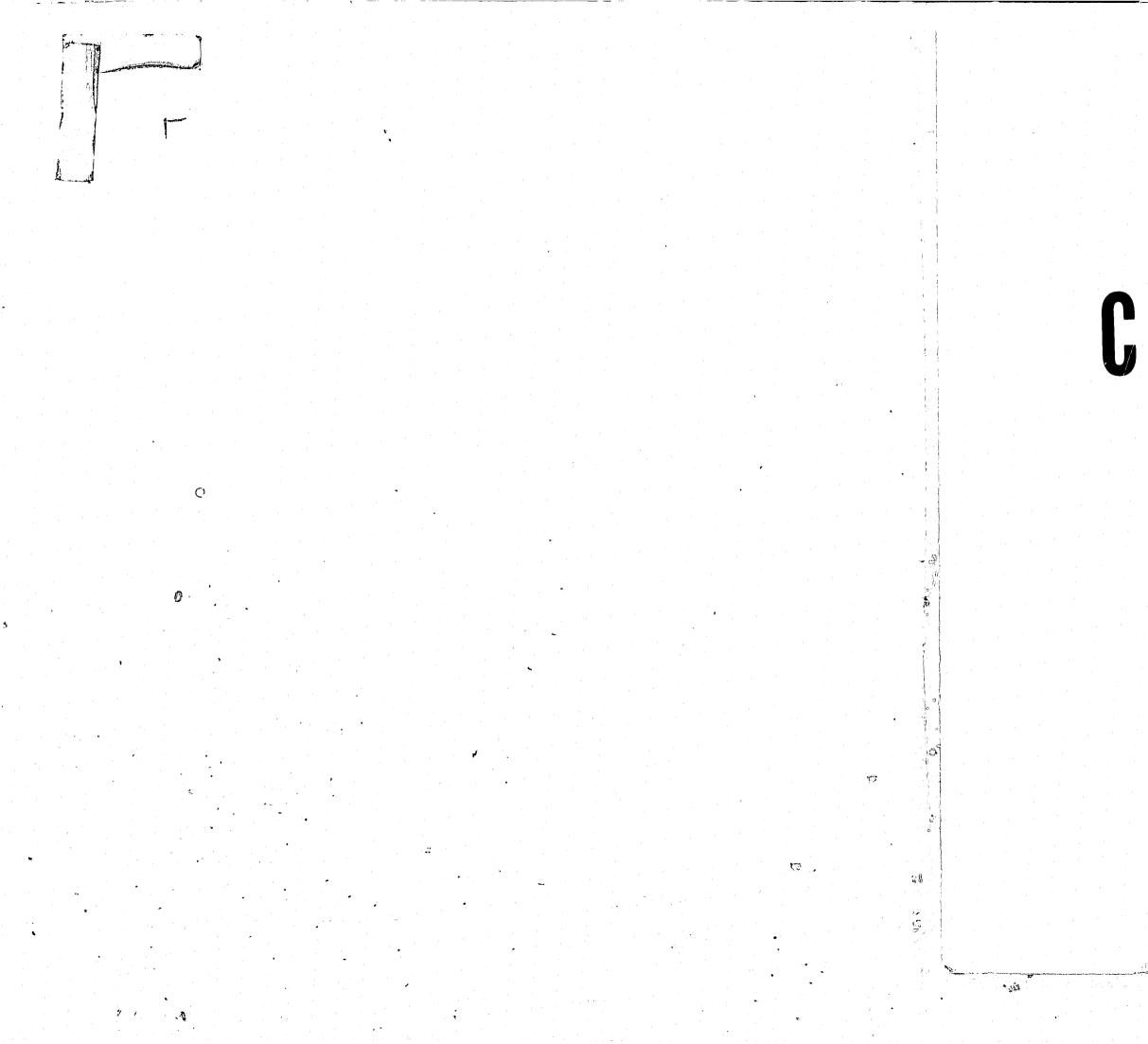
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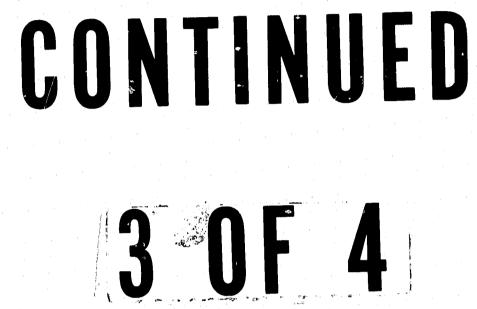
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# HUGHES . HEISS & ASSOCIATES INC.

Management Consultants

181 SECOND AVENUE, SUITE 319 POST OFFICE BOX 1879 SAN MATEO, CALIFORNIA 94401 (415) 343 - 4508

February 25, 1981

Chief Joseph McNamara San Jose Police Department 201 Mission Street San Jose, California

Dear Chief McNamara:

We have completed our evaluation of the Operations Support Unit and the report which follows describes our findings, conclusions, and recommendations. This letter summarizes the essential evaluation findings.

#### EVALUATION APPROACH

Given the fact that the OSU began operations only two months before this evaluation was completed, it is virtually impossible to draw definitive conclusions about impact and effectiveness. It is possible, however, to establish baseline data against which future performance can be assessed by updating the contents of this evaluation; and to draw some preliminary conclusions about OSU impact after two months of operation.

To conduct the evaluation, the following approaches were employed:

. A "tag along" program was used to document how Burglary Unit investigators used their time with two week observations conducted before and after implementation of the OSU. The goal of the "tag-along" exercise was to determine if shifts in investigator time utilization could be observed after implementation of the OSU - - shifts resulting in investigators spending more time on high priority work tasks.

A questionnaire was distributed to burglary unit investigators before and after implementation of OSU to determine if attitudes. toward various components of the investigative job and its problems since implementation of the OSU.

RIS reports were analyzed to identify shifts in Burglary Unit assignment practices and results - - shifts which could be linked to OSU services and activities.

In addition, staff members of the OSU and the Burglary Unit were interviewed before and after implementation.

# EVALUATION FINDINGS

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All evaluation results point to a positive finding regarding the design, implementation, and current operation of the OSU. While development of definitive findings regarding OSU impact and effectiveness will need to await 6 to 9 months of experience with unit operations, preliminary findings suggest the OSU concept is successful.

> Unit operating patterns. Patterns of time wage investigators showed positive changes in three of the five areas OSU was designed to impact. In total, time usage shifts represent about .6 person years of investigator time made available for shift to higher priority investigative work tasks, The potential impact of OSU on investigation time utilization will be more significant when the OSU becomes involved in property handling and victim/ witness contact services as currently intended.

Investigator responses to questionnaires showed modest positive shifts when pre- and post- survey results were compared. Most significant survey attitude shifts related to the perceived impact on investigators of OSU case enrichment and enhancement activities.

OSU.

Analysis of OSU case processing, enrichment, and enhancement activities indicates that: _

Cases processed by the OSU were sampled to analyze the specific content and results of OSU services.

Pre- and post- measurements indicate positive changes in Burglary

Since OSU's implementation, some significant shifts in Burglary Unit operations were documents.

.. A higher proportion of cases classified as assignable are being assigned and receiving some follow-up investigation.

Burglary complaints filed have increased in both numbers and as a proportion of assigned cases.

Most low probability cases are being screened out by the

The great majority of cases forwarded to burglary are subjected to enrichment and enhancement.

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A high proportion of enrichment and enhancement activities are successful - - of those cases forwarded to burglary and subjected to enrichment and enhancement, more than 58% involved the addition of some incremental information beyond data contained in the basic crime report.

- About 11% of those cases forwarded to burglary by OSU had new solvability elements (new suspect; auto I.D.; etc.) added through enrichment and enhancement activities.
- Most importantly, there appears to be a direct link between OSU enrichment activities and ultimate disposition of those cases by Burglary. For non-in custody cases (suspect not in custody at time case dealt with by OSU), the rate at which complaints are ultimately filed is three times as high for those for which successful enrichment is accomplished by OSU.

# OTHER CONSIDERATIONS

Much of our evaluation has focused on trying to measure OSU's impact based on the approaches noted in the preceding paragraphs. However, the OSU process is only part of the equation. Perhaps as importantly, the establishment of the OSU process has set the stage for improved and viable management in regard to the entire process for dealing with burglary cases within the San Jose P.D. Response in the area of management has been a major contributor to successes achieved to date to include managers at both the Burglary and OSU levels. Experiment with the concept has provided the opportunity for these managers to employ their skills and enthusiasm to address efficiency and effectiveness issues. The importance of the OSU process in providing this environment for improved management cannot be overstated.

In summary, the OSU experience to date appears to be a positive one. Management and staff committment, the relatively minimal investment in the OSU concept considered in light of the potential impact which could be achieved, and the preliminary indications of success achieved to date all indicate that the experiment shall be continued and assessed by expansion potential once operations related to burglary cases are firmly in place.

* * * * *

Sincerely yours,

HUGHES, HEISS & ASSOCIATES

John W. Heiss Principal

# LETTER OF TRAN

- I. EVALUATION FIN
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APPENDICES

- PERFORMANCE

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**B** - SUGGESTED DATA COLLECTION SHEET FOR MEASURING OSU MONTHLY

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# I. EVALUATION FINDINGS

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# I. EVALUATION FINDINGS

The November 23, 1980 start-up of the case control component of the operations support unit of the San Jose Police Department represents the culmination of many months of planning and implementation. Funds made available through the integrated criminal apprehension program of LEAA supported the conceptualization and implementation planning related to the development of the operations support unit - - a model for integrating decision making and information collection/analysis/dissemination involving investigative assignments in particular and the processing of crime incident related information, in general. ICAP funds were supplemented with an LEAA block grant which provided partial support for staffing the OSU once implemented.

The OSU began operations, from the perspective of screening and enhancing cases prior to assignment to departmental investigators. on November 23, 1980 - - approximately two and one-half months ago. While the planning process has been lengthy, OSU, in terms of actual day-to-day operation, is basically a fledgling operation. As a result, it is really too early to definitively assess impact of case control, enhancement, screening and assignment activities related to the OSU operation. However, by drawing on the attitudes of involved personnel, analyzing the characteristics of OSU screening and enhancement activities, and reviewing assignment and investigative practices in the burglary detail, it is possible to draw a number of preliminary conclusions about the success of the OSU effort to date. The report which follows contains the following:

. A summary of investigator attitudes, measured on a pre- and post- basis, toward characteristics of their work which might be expected to be impacted by the OSU.

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As noted above, the ultimate development of the OSU was the result

of a lengthy analytical and conceptualization process. For approximately twenty-four months prior to the unit's actual start-up on November 23, 1980, departmental staff had been involved in a variety of analytical activities related to the development of the OSU. They included the following:

> A series of conceptualization exercises designed to develop a basic framework within which the department could increase investigative efficiency and effectiveness.

In-depth workload measurement activities directed at determining staffing requirements once a centralized, case control unit was established and in operation.

Concurrent with the ICAP activities outlined above, the department was in the process of implementing an automated field interrogation information system termed ACES. Automation of the FI system was viewed by the department as an important aspect of the overall approach to increasing investigative efficiency and effectiveness.

Data outlining the nature and scope of screening and case enhancement activities accomplished by the OSU.

Data indicating the outcome of cases screened and enhanced by the OSU and ultimately assigned to the burglary unit of the San Jose Police Department.

Selected base line data which can be used in subsequent years to assess the impact of OSU on overall investigative efficiency and effectiveness.

Some general conclusions about factors contributing to OSU successes achieved to date.

# 1. THE OPERATIONS SUPPORT UNIT WAS ESTABLISHED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF INVESTIGATIVE SERVICES IN THE SAN JOSE POLICE

Detailed data collection activities directed at determining strength and weaknesses of the department's process for dealing with and assigning crime reports for followup investigation. This portion of the project involved extensive flow charting of both records processing activities and the overall flow of crime reports and subsequent, followup investigative activities within the San Jose Police Department.

- Defining organizational frameworks and responsibilities necessary for OSU implementation. This included determining unit staffing requirements; placement of the unit within the overall framework of the San Jose Police Department; and resolving issues related to assigning staff to the unit once operations began.
- During the fall of 1980, conducting extensive training and orientation activities to facilitate start-up of OSU case control operations. This included a variety of training activities:
- Training and orienting investigative staff on what OSU would be expected to accomplish and how implementation of the OSU would impact day-to-day investigative activities.
- Conducting extensive training for clerical and sworn staff --who were to be assigned to the OSU unit.
- As noted above, these planning, implementation, and training activities culminated in the start-up of OSU operations on November 23, 1980.

The paragraphs which follow focus on the case control component of

the OSU.

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(1) The OSU Has Been Established To Enhance Investigative Effectiveness By Screening Out Low Probability Cases And Focusing Departmental Informational Resources To Upgrade Investigative Results.

Exhibit I, which follows this page, shows the planned, overall sequence of OSU processing steps related to dealing with crime reports received by the San Jose Police Department. Initially, planning called for the establishment of the OSU to handle all crime reports initiated by field officers, screen them prior to assignment to an investigative unit, enhance them from available information sources to the extent enhancement was possible, and screen out low probability -cases with little likelihood of investigative success. As the OSU concept passed through the various planning phases, this initial plan was modified to focus screening and enhancement activities on cases handled by the burglary unit of the San Jose Police Department. It

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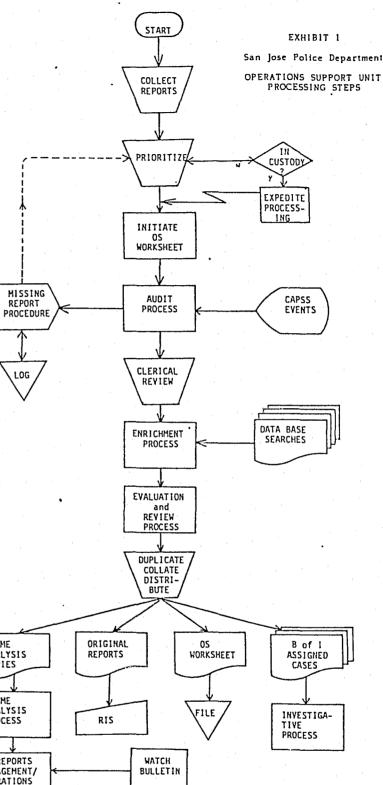
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REPORTS MANAGEMENT/ OPERATIONS



was felt by departmental management that focusing on burglary would provide an ideal test of the OSU concept - - a test whose results would determine whether or not the concept was expanded to all cases and all investigative units within the Police Department.

Implementation and actual operating procedures closely follow the steps outlined in Exhibit I. Only major modification to the process, in addition to the focus on burglary cases noted above, has been the move of the evaluation and review process to a point immediately after a crime report is received by the OSU. Under current operations, sworn officers assigned to the unit review cases immediately upon their receipt by the unit, determine the solvability elements present in the crime report prepared by the field officer, and prepare enhancement instructions for clerical staff assigned to the OSU. This process adjustment was implemented to increase the efficiency and effectiveness of both investigative screening and case enhancement activities.

The process displayed in Exhibit I was expected to have the following impacts on the overall sequence of processing and investigating burglary

#### cases:

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Through the enhancement process, it was expected that cases forwarded to the burglary unit for assignment to investigators would be "better" cases with a higher probability of either solution or for filing a complaint on in-custody defendants. Through this process, it was anticipated that a higher proportion of the burglary cases received by the San Jose Police Department would be assigned to an investigator for some follow-up activities.

Through centralizing responsibility for case processing, quality control and provision of enhancement information, it was anticipated that establishment of the OSU would enhance the time utilization of investigative personnel in the burglary unit.

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As noted earlier in this section, the OSU began operations on

November 23, 1980 following selected training and orientation activities for OSU staff. Exhibit II, which follows this page, shows the current organization, staffing, and funding plan for the

As a result of upgraded services accomplished by the OSU, it was expected that burglary investigators could reduce personnel time devoted to selected low-priority working tasks. This involves such elements as:

Searching and accessing information systems to attempt to complement data provided in the basic crime report.

Reduce the amount of time individual investigators had to spend responding to public inquiries.

Through improved screening and case enhancement activities, it was hoped that OSU operations would increase the probability of apprehending offenders in cases where potential suspects were either named or described, or other information was available which had the potential of linking a suspect to a burglary case.

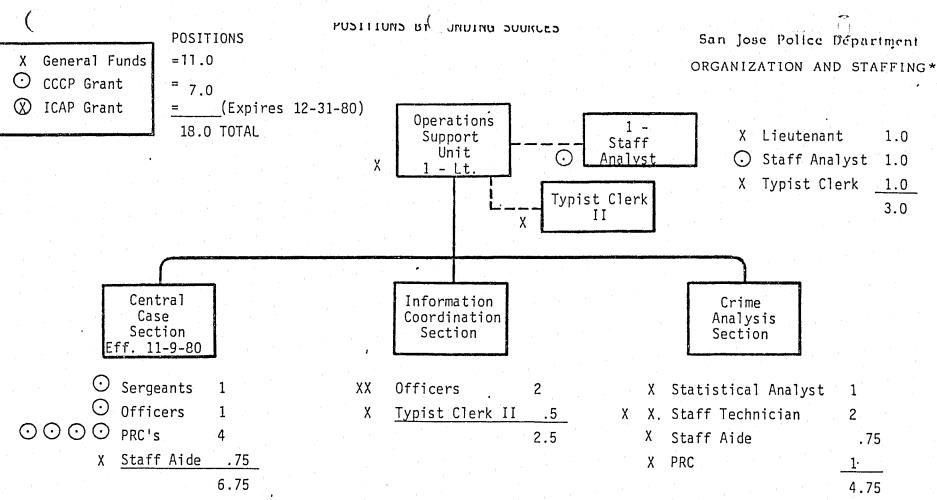
Through accelerated case handling practices available through the OSU, it was hoped that the department's handling of incustody burglary defendants would be upgraded. This included ensuring that complaints for in-custody defendants were filed within the time limit maximum so that the proportion of burglary arrests which ultimately culminated in 849 releases was reduced.

It was also anticipated that OSU services and activities would enhance and increase the effectiveness of on-site investigations conducted by field patrol officers.

- Review of crime reports prepared by field officers by OSU sworn staff was expected to identify weaknesses in report preparation and evidence collection and processing. Findings resulting from these reviews were to be fed back to field patrol units for input into report writing and evidence collection training for field officers.

OSU activities were to include audit of all case numbers assigned by communications personnel for incidents involving burglary or burglary related offenses. This audit was designed to ensure that field officers submitted crime reports on a timely basis for all field incidents which they investigated and dealt with.

# (2) Implementation Development And Planning Culminated In Full Start-Up Of The OSU Operation In November 1980.



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TOTAL = 18.0

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* As of January 31, 1981

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tenant	1.0
f Analyst	1.0
st Clerk	1.0
	3.0

OSU unit. In reviewing the data displayed in Exhibit II, the

following factors should be noted:

A number of the ICAP funded positions have been absorbed by the department on general funding. In total, one staff technician and two staff aide positions were moved to general funding once ICAP funding expired.

Basic incremental staffing required for unit start-up have actually been guite limited due to staffing shortages and position underfillings throughout the department, the real, incremental positions required to establish the OSU have been:

- The Sergeant who acts as case control unit supervisor is essentially a position which was transferred from the burglary unit and accomplished case screening and assignment activities at the burglary unit prior to his assignment to OSU.
- The police record clerks assigned to the case control section were essentially individuals who were transferred from case processing in the records unit of the San Jose Police Department. As such, they represent a transfer of function rather than incremental personnel.

Initial plans called for the department to replace grant funded personnel transferred to the OSU. However, initial operating experience has indicated that establishment of the OSU has resulted in workload shifts (e.g. from records processing to the Police Records Clerks assigned to the OSU). If these workload shifts are maintained as experience is gained with OSU operations, the requirement to "backfill" all of these positions may be eliminated.

As a result, given the above, the real incremental impact from the long-term financial perspective of establishing the case screening and enhancement capability involves one sworn officer assigned to the case control unit. the unit manager, and the staff analyst who devotes a substantial proportion of day-to-day working activities to case control unit operations. In total, this represents an annual investment of approximately \$100,000 in incremental expenditure for the San Jose Police Department.

The paragraphs which follow discuss the impact of OSU implementation.

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A major impact of the new OSU has involved change in the way

individual burglary cases are reviewed and processed before they are assigned to an individual investigator for follow-up investigation or processing prior to filing of a complaint. Previously, all burglary cases, once they had been handled by the records unit, were forwarded to the burglary unit for screening and enhancement. This involved:

Use of clerical staff or investigator personnel assigned to the unit to search available information systems in an attempt to complement data contained in the initial crime report prepared by the field patrol officer who responded to the incident.

Given the organizational division between records personnel who handle the initial processing of burglary cases forwarded by field patrol units and the burglary unit which screened those cases and determined which were assignable and which were not, there was some fragmentation in the overall comprehensive processing of burglary cases handled by the department. A major impact of this fragmentation was the timeliness with which cases were forwarded and ultimately assigned to an investigator

Exhibit III, which follows this page, provides some selected indicators of the impact of the existence of the OSU on cases received by and assigned to the burglary unit of the San Jose Police Department. As the data displayed in Exhibit III indicate, establishment of the OSU has sharply reduced the number of cases received by the burglary detail and reviewed for assignment to investigative personnel. The pre- and postreceipt and assignment data displayed in Exhibit III vividly illustrate the impact of the OSU on screening out low probability cases before they

# ESTABLISHMENT OF THE OSU HAS SIGNIFICANTLY SHIFTED WORKLOAD RELATED TO THE PROCESSING AND SCREENING OF BURGLARY CASES.

Having an assigned investigator in the burglary unit review incoming cases and sort out those which appeared to be assignable and those which lacked sufficient data or 'evidence to warrant further expenditure of investigative time.

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# CASE ASSIGNMENT PERFORMANCE: BURGLARY UNIT

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 \end{array}$ 9.4 7.8 211 13.7 12.3 2.4 1980 1979 1979 January 256 247 262 2,662 12.6 10.4 15.8 12.1 1.9 December 9.8 12.9 18.8 8.8 15.8 14.5 5.3  $\frac{11.4}{10.5}$ November 11.4 <u>9.9</u> <u>13.2</u> 5.0 11 Month Total/Average RESIDENTIAL BURGLARIES COMMERCIAL BURGLARIES COMPLAINTS PERCENT ASSIGNED OF THOSE CLASSIFIED ASSIGNABLE FILED AS A COMPLAINTS FILED AS À PERCENT OF PERCENT ASSIGNED PERCENT OF OF THOSE CLASSIFIED MONTH ASSIGNED CASES ASSIGNABLE ASSIGNED CASES --(PERCENT)----(PERCENT)--1981 1980 January 71.0% 15.5% 75.0% 31.42 December 60.8 11.3 76.8 30.2 September 1980 49.3% 14.9% 75.8% 38.5% August 1980 44.3 9.5 62.1 62.1 July 1980 38.5 14.4 52.7 31.1 June 1980 50.2 7.5 61.1 30.4 30.1 Kay April 1980 54.1 8.1 54.8 1980 63.1 5.1 66.7 32.1 41.5 March 1980 88.3 14.2 17.9 78.3 February 1980 82.5 89.8 72.0 92.4 86.8 19.5 January 1980 82.5 21.4 15.3 12.3 15.7 December 1980 89.8 36.3 88.4 55.8 November 1980 43.9 11 Month Average 13.3 70.2 34.1

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* Includes cases received by and screened out by the OSU.

#### EXHIBIT III

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San Jose P.D.

SELECTED BASELINE DATA RELATED TO ASSESSING OPERATIC' SUPPORT UNIT EFFECTIVENESS

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OSU Start-up

are received by the burglary detail. Principal conclusions which can be

drawn from the data displayed in Exhibit III include the following:

Cases previously screened out after initial review within the burglary unit are now generally screened out at the OSU level. For example, prior to the establishment of OSU, approximately 20% of residential burglary cases contained sufficient information to qualify as an assignable case - - a case which would warrant further investigative effort. Since the establishment of the OSU, cases received by the burglary unit average from 97% to 99% assignable. As a result, an extremely high proportion of those cases forwarded to burglary by the OSU are now assigned and receive follow-up investigative attention.

When the initial months of OSU operations (December 1980 and January 1981) are compared with the months preceding the OSU, some interesting assignment patterns can be noted. For example, in January 1981 and December 1980, from 60 to 70% of cases classified as assignable were in fact assigned to investigators for follow-up activities within the burglary unit. This represents a dramatic departure from assignment patterns registered over the previous five to six months. During the period from May, 1980 through September, 1980, from 50 to 54% of cases received by burglary and classified as assignable were actually assigned for follow-up investigation. This contrasts sharply with the 60% to 70% performance registered during the first two full months after the OSU began operation.

While some significant changes in assignment practices appear to be evident in these first two months following OSU start-up, it is probably too early to determine if:

- A real trend in changes in assignment practices appear to
- Whether this trend, if it exists, can be attributed solely to the start-up of OSU. During the same period, several management changes were instituted in the burglary unit, changes which could also expect to have influenced assignment proportions displayed in Exhibit III.

Nevertheless, the OSU concept has had major impact on how cases are screened prior to assignment to investigative personnel. In addition to the data displayed in Exhibit III, this impact is vividly illustrated by the material contained in Table 1 which follows.

# Total Cases

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Cases Screen By OSU

Cases Forwa

As can be seen from the data displayed in Table 1 approximately one out of five burglary cases reported to the San Jose Police Department actually are ultimately assigned to the burglary unit for follow-up investigation. Establishment of the OSU has facilitated screening out four out of the five cases received which lack practical solvability elements and do not justify the expenditure of time related to follow-up investigation. In addition, it should be noted that the total cases handled by the OSU represent 40% of the felony cases reported to the San Jose P.D.

These preliminary indications of OSU impact have been achieved through the expenditure of assigned staff time as shown in Exhibit IV, which follows this page. The data displayed in the Exhibit reflect staff hours allocated to the various case screening, records processing, and enrichment functions accomplished by the case control unit from the startup date of November 23, 1980 through the end of December, 1980. As the data displayed in the Exhibit indicate, approximately 59% of the staff hours expended by the unit involve activities which can have direct impact on investigative operations. These include staff hours devoted to: Case evaluation and review.

Table 1 OSU Screening Impact Nov. 23, 1980 Through Jan. 31, 1981

	<u>No.</u>	%
Total Cases Received By OSU	3,266	100.0
Cases Screened Out And Held By OSU	2,594	79.4
Cases Forwarded By OSU To Burglary Investigation Unit	672	20.6

Case enrichment.

Victim-witness contacts.

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# EXHIBIT IV

#### San Jose Police Department

TIME UTILIZATION BY OPERATIONS SUPPORT UNIT STAFF

				ing activities and
	PROPORTION OF			component of the dep
WORK ACTIVITY Service function	OSU STAFF TIME DEVOTED TO BASIC			In reviewing
	SERVICE ACTIVITIES	•		should be noted that
Audit	9.1%			include several serv
Case evaluation and review	27.6	•		initial unit design.
Case enrichment	29.4			. Handling
Indexing Case Status Update	12.9			. Handling
Filing	1:2			the evalu Contact handed ou
Duplication and distribution	• 11.1		A ADD	
Victim witness contacts	1.0		r Salah Yangi Ju	Once these se
Inter-Deparment/Inter-agency				can be expected to sh
Contacts	1.2			3. <u>ANALYSIS OF AVAIL</u> IS HAVING A POSIT
Training	.7			
Miscellaneous activities	3.6		And and an a	To accomplish
Administration	2 2		and the second se	variety of approaches
TOTAL	<u> </u>			• The utili burglary u purpose of

The project team selected and analyzed a random sample of cases processed by the OSU since the unit's start-up. The purpose of this random sampling was to document OSU disposition of cases; to analyze case enhancement activities accomplished by the unit; and to "track" case disposition for those cases forwarded to the

Inter-department/inter-agency contacts and coordination.

The remaining staff hours contributed by the unit involve accomplishing activities and functions previously accomplished by the case processing component of the department's overall records unit.

> ing the time utilization data displayed in Exhibit IV, it hat the current state of OSU implementation has yet to ervices which will be established and were included in the gn. These include:

ng property releases for all cases "owned by" the OSU.

ng victim/witness inquiries for cases. As of the time of aluation, brochures designed to notify the public to t the OSU with case related questions was not yet being out by field offices.

services are in place, staff time utilization data

shift.

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AILABLE DATA, WHILE NOT CONCLUSIVE, SUGGESTS THAT THE OSU

sh this evaluation of OSU impact and operations, a

es were taken to include the following:

The utilization of available work time by investigators in the burglary unit was measured on a pre- and post- basis. The purpose of this time measurement activity was an attempt to determine the extent to which shifts in investigator time utilization could be observed and linked to OSU service activities and operation.

Burglary unit investigators were requested to complete attitude questionnaires prior to the start-up of OSU and following approximately two months' experience with OSU operations. The purpose of the investigator attitude questionnaire was to attempt to assess shifts in investigator attitudes regarding various areas of their day-to-day work activities.

burglary unit for assignment and action.

The paragraphs which follow assess OSU impact as a result of these

evaluation activities.

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(1) Modest Shifts In Investigator Time Utilization Have Been Observed Since Implementation Of The OSU.

This section of the evaluation presents data and conclusion on the time usages of investigators in the burglary unit both before and after the OSU became fully operational.

(1.1) A "Tag Along" Program Was Initiated To Record Investigator Time Utilization.

To determine how investigators in the burglary unit were utilizing

their time, a number of steps were taken.

- Major work activities (and other time usage areas) were defined and finalized in a group meeting with San Jose Police Department staff. Initially, 27 time usage areas were identified and these were subsequently expanded to 29 categories to be monitored during "tag along" programs.
- A research assistant was trained in work sampling and time recording and oriented to the investigative process.
- The research assistant "tagged along" with 10 different investigators (five Sergeants and 5 Officers) to record time utilization on 10 separate work days. Two days of each work day in the week (Monday through Friday) were monitored.
- "Tag alongs" were conducted for 10 days in October 1980 before the OSU became fully operational, and 10 days in January, 1981, after the OSU was established and in full operation.

The same 10 investigators were involved in the "tag alongs" conducted in both October and in January. This ensured that comparable work habits and work approaches were dealt with in both sample "tag alongs".

During the "tag alongs", the time utilization of each investigator was recorded against the 29 time usage areas (codes) which had been established. Of specific interest was whether time utilization would change in 5 key work activity areas which were expected to be impacted by OSU services; (1) Case status inquiry handling (i.e. reacting to inquiries from victims and witnesses on the status of the cases they are involved in); (2) Crime trend analysis (i.e. linking suspects to cases); (3) Crime report review; (4) Data system searches (e.g. accessing CJIC and FI files); and (5) Missing document and data searches. 11

Exhibit V, which follows this page, presents a profile

Based on the minutes recorded for each work usage area, it

of time utilization for burglary investigators in the October, 1980 and January, 1981 work sampling periods. The minutes spent in each time usage area and their percent of total minutes worked are shown. It should be noted that the total work minutes of ten investigators was less in January, 1981 than in October, 1980 since one investigator went home sick after working only part of a work day. appears that the OSU may be reducing the time spent by investigators in three areas as shown in Table 2 which follows.

Case status inqu Crime report rev Data system sear Tot

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If these time usage reductions were to continue in the future, overall, about 4% of an investigator's time would be available for other work tasks. For fourteen investigators actually working

(1.2) The Pattern Of Time Usages For Investigators Changed Somewhat Between The October 1980 And January 1981 Work Sampling Period In Three Of The Five Areas The OSU Was Designed To Impact.

Table 2

Comparative Investigator Time Utilization In Selected Impact Areas - - Pre- and Post- OSU Start-up

	Octob	er 1980	Janua	ry 1981	
	Min.	% of Total	Min.	% of Total	
uiry handling	317	6.4%	176	3.9%	
view	481	9.7%	392	8.6%	
rches	203	4.1%	164	3.6%	
tal	1,001	20.2%	732	16.1%	

# San Jose Police Department

CANIDIT Y

TIME UTILIZATION PROFILE OF INVESTIGATORS ASSIGNED TO THE BURGLARY UNIT

WORK ACTIVITY	CODE	10 INVES IN OCTOBE MINUTES		10 INVES IN JANUA MINUTES	RY 1981 % OF	TOTAL FO <u>TIME PER</u> MINUTES					WORK ACTIVITY
		1 = 4,95	3 Min.	T = 4,55	8 Min.	T = 9,51	1 Min.		a very de la construcción de la co		Line-Ups
Administration	ADM	155	3%	25	-	180	1.9%	•		of the state of th	Missing Document/ Data Searches
Arrest/Book Suspect	ABS	43	1%	93	2%	136	1.4%			distriction in the statement	Other Tasks
Assist Others	AO	_	-	180	4%	180	1.9%		ar Young Bandan array Bat	and the second se	Property Processing
Court Appearance	CA	105	2%	525	12%	630	6.6%			er er er er er	Personal
Court Case Coordination	CCC	22		137	3%	159	1.7%			An An Antonio	Report Writing
Case Status Inquiry Handling	CSI	317	6%	176	4%	493	5.2%		nan na mana ang kana na mang kan	and the second secon	Arrest and Search Warrants
Crime Trená Analysis	°CTA	148	3%	27	1%	175	1.8%		er man en manager en agestad	A Stevensky John H	Subpoena Service
Crime Report Review	CRR	481	10%	392	9%	873	9.2%				Travel
Data System Searches	DSS	203	4%	164	4%	367	3.9%				Victim
Eating/Breaks	E/B	390	8%	545	12%	935	9.8%			offendard floorenderson	Witness
Filing Complaints/ Citations	FC	240	5%	432	9%	672	7.1%			An	Suspect
Fingerprint Comparison	FPC	15	· 🛥	30	1%	45	0.5%				Other
Proactive - Geographic work	GWP	-		· _	-	· · · - ·	-	•			
Idle Time	IT	283	6%	50	1%	333	3.5%			e exercised a	
Information Exchange	IE	123	2%	35	1%	158	1.7%			n national de la s	
Interview Suspect	IS	198	4%	239	5%	437	4.6%		1	the model of the second	
Interview Victim	IV	243	5%	199	4%	442	4.6%		<ul> <li>Construction of the second seco</li></ul>		•
Interview Witness	IW	97	2%	- · · ·	-	97	1.0%		Contraction of the second s		
Interview Others	10	218	4%	144	3%	362	3.8%		0	i. I	
Investigate Crime Scene	ICS	75	2%	35	1%	110	1.2%		Salahart - Sact Mar	(. )	

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# EXHIBIT V (2)

CODE	<u>IN OCTO</u> MINUTES	STIGATORS DBER 1980 % OF TOTAL 53 Min.	<u>IN JANU</u> MINUTES	STIGATORS JARY 1981 % OF TOTAL 58 Min.	TIME P	% OF S TOTAL
LU	186	4%			1 = 9,5	511 Min.
			65	1%	251	2.6%
MDS	12	<del>,</del>	35	1%	47	0.5%
OT	20	-	-		20	0.2%
PP	202	4%	59	1%	261	2.7%
P	125	3%	130	3%	255	2.7%
RW	158	3%	250	5%	408	4.3%
SW	55	1%	135	3%	190	2.0%
SS .	40	1%	·	. , , : -	40	0.4%
Ţ	799	16%	456	10%	1,255	13.2%
	94	• •	85			
	207		-			
	255		108			
	243		263			

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1800 hours annually, this 4% change in time utilization could generate about 1008 work hours for more productive work activities over the course of a year. This represents approximately .6 of an investigator position.

However, the two sample work periods did not produce any positive changes in two areas: (1) crime trend analysis (where the minutes decreased from 148 to 27, or from 3% to .6% of total work time, respectively); and missing document and data searches (where the minutes increased from 12 to 35 minutes, or .2% to .8% of available work time, respectively). It is possible that these two time usage changes are not necessarily representative of a typical year in the burglary detail. The same also might be true for the three time usage areas where the OSU may be making a positive impact.

Overall, the five time usage areas where the OSU is hoped to have an effect constituted 23.4% of work time in October, 1980 and 17.4% in January, 1981.

(1.3) Time Usages Of Investigators Present A Wide Range Among Possible Activities.

Time usages of investigators in the two sample time periods have been arrayed from the highest to lowest, in terms of time utilization, as shown in Exhibit VI, which follows this page. As can be seen from the itemization displayed in the Exhibit, a wide variety of activities comprise the actual work day of a burglary investigator. Analysis suggests that from 20% to 25% of the total time represented by these work activities could be impacted by the OSU.

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(1.4) Several Other Factors Ought To Be Considered When The Results Of Time Utilization Data Are Considered.

Additional factors and conclusions related to the analysis

of investigator time utilization include the following:

Time utilization impact on the burglary unit commander has not been considered. Interviews indicate that, prior to the establishment of the OSU, the unit commander spent about three hours daily reviewing cases before assignment to investigators. Since OSU's start up, this daily time committment has been reduced to one hour.

Some important OSU services, which will be but have not yet been implemented, can have significant major impact on investigator time utilization. These include:

Centralization of response to victim/witness

Handling property releases for cases. Review of investigation time utilization data displayed in this section indicates that up to .4 of an investigator person year is currently devoted to property handling by investigative staff. Assumption of a portion of property handling responsibility by OSU should positively impact investigative time utilization.

# EXHIBIT VI

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# San Jose Police Department

# SUMMARY OF INVESTIGATOR TIME UTILIZATION

						Col, and the second		
	TIME USAGE CATEGORY	% OF TOTAL TIME EXPENDED		A Statement		in the second		Fingerprint
	Interviews	14%		SA PERSONAL PROPERTY.		and and a state of the second		Missing Docu
	Travel	• 13%		a Carlo and a state of		Andrea - Sandala - A		
	Eating/Breaks	10%	•					Other Tasks
	Crime Report Review	9%				and the second sec		Subpoena Ser
						allander och senterio		Proactive Ge
	Filing Complaints	7%			· · · ·	SEA STA		
	Court Appearances	7%				k kan katika per su su		
	Case Status Inquiry Handling	5%				and a standard and a standard and a standard	•	
	Report Writing	4%			•			
	Data System Searches	4%						
	Idle Time	4%						
,	Personal Time	3%						
	Property Processing	3%		and and a set of the s		A real and a		
	Line-Ups	3%				Artes ( and a the second se		
	Arrest/Search Warrants	2%				ang sa composite to the		
	Administration	2%		n Se daar 194 (pad generate		an and a second s		
	Assist Others	2%		and the second se		American Contractor		
	Crime Trend Analysis	2%						
	- Court Case Coordination							
		2%		and and the second s	\$7 1			
	Information Exchange	2%						
	Arrest/Book Suspects	1%		an ya an ya an ya di a ƙafa miliki Manazarta ya kata ya			n an	
	Investigate Crime Scene	1%		and the second	0	()	n An an	
				1 22				

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# EXHIBIT VI (2)

# TIME USAGE CATEGORY

# % OF TOTAL TIME EXPENDED

Under 1%

int Comparisons

Ocument/Data Searches

ks

(E)

Service

e Geographic Work

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# (2) <u>Questionnaire Results Suggests A Modest Positive Shift In</u> <u>Investigator Attitudes</u>.

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As part of the evaluation, an attempt was made to document investigator's attitudes toward various aspects of their work and caseload on a pre- and post- OSU implementation basis. The content of the questionnaire was developed in part to answer the question regarding whether or not OSU was having a major impact on selected aspects of investigative efficiency and effectiveness. Appendix A to this report contains a sample of the questionnaire which was employed on both a pre- and post- OSU implementation basis. The questionnaire was developed based on the following:

As noted earlier, group interviews were conducted with investigators from the burglary unit. These interviews focused documenting areas of investigator time utilization and day-to-day work activities which they felt detracted from their overall efficiency and effectiveness.

Based on the results of this group interview and review of expected impact of the OSU as perceived by key management personnel, a set of questions were formulated to attempt to document attitudes in those areas which could reasonably be expected to have some impact as a result of implementation of the OSU.

The questionnaire was then administered to burglary unit investigators prior to the implementation of the OSU, and then again, approximately 1 1/2 months after the OSU had gone into operation.

Exhibit VII, which follows this page, provides a summary analysis of investigator responses to questionnaires on a pre- and post- OSU implementation basis. The questions contained in the questionnaire which asked investigators for a specific response are displayed in the exhibit. The questions are reproduced exactly as they were stated on both the pre- and post- questionnaire. Responses are tallied in regard to the proportion of respondents who strongly agreed

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with the statement on the questionnaire, simply agreed with the statement, had no opinion, disagreed, and strongly disagreed. In addition, to facilitate analysis, a weighted average factor was developed. To develop this weighted average factor, a value of five was accorded to all responses involving strong agreement, four to those responses involving simple agreement, three to those responses involving no opinion, two involving those responses related to disagreement with the statement on the questionnaire, and one for all strong disagreements. These factors were then multiplied by the percent of responses for each statement to develop a single numerical factor related to all responses to the statement. Comparison of weighted average factors will enable the reader to rapidly identify shifts in response patterns for the preand the post- questionnaires.

Analysis of questionnaire results as displayed in

Exhibit VII do not provide any overwhelming trend of either positive or negative response by investigators which can be related to the implementation of the OSU. Principal conclusions which can be drawn from the questionnaire responses include the following:

Section 1 of the questionnaire covers investigator attitudes regarding the nature and quality of cases which they are assigned. As can be seen from the Exhibit, responses are mixed:

There is some modest deterioration in investigator attitudes regarding the expenditure of time on cases where no real follow-up appears to be feasible.

Conversely, investigators appear to be more positive in terms of their ability to work cases where there is some potential to generate suspects.

Given these conflicting response patterns, Section 1 provides

# SUMMARY ANALYSIS OF INVESTIGATOR RESPONSES TO QUESTIGNNAIRE

	•			PRE OSU RESP	ONSE		VE I GHTED	1	P05 05	U PESPONSE		
	QUESTIONS	AGREE STRONGLY	AGREE	NO OPINION	DISAGREE	SIRONGLY	AVERAGE	AGREE STRONGLÝ	AGREE	NO OPINION	DISAGREE	STRONGL
1	1. Of the cases assigned to me for							[ <b></b>				
	follow-up investigation:		(PERCENT R	ESPONDING) -						PERCENI A	ESPONDING-2-2	
	a. I spend only a small portion of my							f				
	time reviewing crime reports where											
	no real follow-up is feasible.	13.3	66.7	13.3	6.7	-	3.87	8.3	41.7	8.3	41.7	-
	b. Generally, wy caseload has a high					•						
•	proportion of cases with leads that can be followed-up.											
		13.3	66.7	13.3	5.7		3.87	8.3	75.0	-	16.7	-
	c. "Dead end" cases significantly re-											
	duce the time I can spend on cases with a higher probability of success.											
		33.3	40.0	13.3	13.4	-	3.53	16.7	41.7	16.7	25.0	•
	d. The largest % of my time is spent											
	on in-custody cases.	6.7	20.0	13.3	60.0	- 1	2.73		8.3	8.3	75.0	8.3
	e. I can adequately work cases with											
	suspects (not-in-custedy) or vehicle						•	]				
	description.	13.3	40.0	13.3	26.7	6.7	3.27	-	75.0	•	8.3	16.7
	f. I can adequately work cases where it									· · · ·		
	might be possible to generate suspects.											
		13.3	20.0	20.0	40.0	6.7	2.93		83.3	8.3		8.3
2.	. The initial crize reports assigned to											
	ne for foliou-up:											
	a. Generally have data gaps which											
	should have been filled by the											
	responding patrol officers.	33.3	40.0	20.0	-	6.7	3.93	25.0	50.0	16.7		8.3
	b. Generally are received by me in											
	a timely panner.	_ ·	26.7	20.0	40.0	13.3	2.60		33.3		33.3	33.3
	c. Generally are accurate in the											
	data provided.	6.7	40.0	25.7	20.0	6.7	3.20		41.7			
	4 Conce 11				2010		5.20	-	41.7		50.0	8.3
	<ul> <li>Generally cause me nn problems</li> <li>in responding to in runtody cases.</li> </ul>	6.7										
•	······································	0.1	13.3	13.3	53.3	13.4	2.47	-	25.0	16.7	41.7	16.7
	- indicates positive shift in											
	weighted average response considering OSU influence. Indicates a negative											
	or undersireable shift since establishment											
	of the OSU.	. •										

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#### EXHIBIT VII

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WEIGHTED AVERAGE RESPONSE

3.17

3.75

3.50

2.17

3.33

3.67

3.83

2.33

2.25

2.50

San Jose Police Department

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	:		PRE OSU RESPO	NSE			·	P	OST-OSU RESPON	SE	
JUESTIONS 3. When I receive an assigned case:	AGREE STRONGLY	AGREE	NO OPINION RESPONDING)	DISAGREE	STRONGLY DISAGREE	WEIGHTED AVERAGE RESPONSE	AGREE	AGPEE	NO OPINION RESPONDING)	DISAGREE	!
		The Areacea	- NESI GNDING/								
<ul> <li>a. I have to spend a lot of time accessing automated information systems or records to support my</li> </ul>	·				· · ·					· • • •	
investigation.	5.7	66.7	6.7	13.3	6,6	3.53		16.7	16.7	58.3	
b. I spend a lot of time searching manual data or record systems to					•	3.73		33.3	5.3	58.3	
enhance the case.	13.3	60.0	13.3	13.4	-	3.73		33.3	5.3	25.3	
<ol> <li>In performing follow-up investigations of burglary cases:</li> </ol>											
a. I have to spend excessive time in responding to inquiries from vic.											
ties/witnesses on the status of the case.	6.7	45.7	13.3	33.3	•	3.27	8.3	66.7	8.3	16.7	
b. I as kept adequately informed on orise trends and MO's that can											
help me in my investigative work.	. •	20.0	26.7	40.0	13.3	2.58	8.3	E.3		33.3	
<ol> <li>In utilizing the time I have available for investigative work:</li> </ol>									•		
a. Handling/releasing recovered											
property requires excessive time from my work day.	33.3	33.3	13.3	20.0		3.80	50.0	.15.0	16.7	8.3	
b. Time is wasted in obtaining DA approval of a complaint.	20.0	20.0	6.7	40.0	13.3	2.93	25.0	8.3	25.0	33.3	
c. I can devote an adequate amount of time in "pro active" work in											
the geographic area I am assigned.	•		20.0	33.3	46.7	1.73			8.3	33.3	
<ul> <li>J have to spend excessive time in writing reports.</li> </ul>	20.0	33.3	33.3	13.3		3.60	8.3	16.7	25.0	50.0	
<ul> <li>I have to waste much of my time</li> <li>in coordinating cases going to</li> </ul>								4 1			
court.	26.7	46.7	13.3	13.3		3.87	25.0	41.7	25.0	8.3	

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STRONGLY DISAGREE	WEIGHTED AVERAGE RESPONSE	ATTITUDE SHIFT
8.3	2.42	•
-	2.75	
<b>_</b> .	3.67	
50.0	1.92	
	4.17	~
8.3	3.08	-
58.4	1.50	-
	2.83	•

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Change

			PRE-OSU RESP	ONSE		WE 1GHTED			POST-OSU RESPO	INSE		WEIGHTED	
JESTIONS	AGREE STRONGLY	AGREE	NO OPINION RESPONDING)	DISAGREE	STRONGLY DISAGREE	AVERAGE	AGREE	AGREE (PERCENT	NO OPINION RESPONDING)	DISAGREE	STRONGLY DISAGREE	AVERAGE	ATTITUD Shift
f. The largest % of my time is spent in the office.	20.0	53.3	-	13.3	~	3.80	8.3	66.7	8.3	16.7	-	3.67	
g. The largest % of =y time is spent in the field.	_	13.3	13.3	46.7	26.7	2.13	-	16.7	8.3	50.0	25.0	2.17	+ ⁻
(Responses summarized in text).		-	-	-	-	-	-	-	-	-	-	-	
Currently,caseloads among investi gators in the burglary detail generally seem to be equitably distributed.	6.7	73.3	13.3	6.7	· .	3.80		75.0	25.0	• • •	- -	3.75	
Overall, I generally as able to spend most of my time on work activities which are productive and worthwhile.	6.7	40.0	6.7	25.7	20.0	2.87 •		58.3	8.3	33.3		3.25	•
(Responses summarized in text).	-	-		-			-	•	•	· -	-		
(Responses summarized in text).	-		•	-	-	-			-	-		-	
In general, my existing caseload is excessive given what actually can be done on these cases.	6.7	60.0	26.7	6.7	. · ·	3.67	15.7	50.0	25.0	8.3	· -	3.75	· _
The activities of the OSU ("will be" for pre-and "are" post) heip- ful to se in performing sy job.	25.7	20.0	53.3	- · ·		3.73	16.7	58.3	16.7	8.3	_	3.83	
(Responses summarized in text).	-	·	•	-	-	•	-			-	-		

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EXHIBIT VII (3)

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r r no real opportunity to draw basic conclusions about the overall impact of OSU on caseload handled by investigators.

Section 2 involved questions related to the quality of crime reports assigned to investigators for follow-up activities. Again, investigator responses indicate no major shift in terms of the quality of crime report contents which they are assigned to work on.

Section 3 of the questionnaire deals with investigator activities and time utilization required upon receipt of an assigned case. Here, OSU impacts, in terms of investigator attitudes, appears to be significantly positive. When pre- and post- implementation responses are compared, investigators indicated that they spent less time in attempting to enhance cases by accessing automated information systems or accomplishing other research. This would appear to reflect the impact of OSU case enhancement and enrichment activities.

Section 4 of the questionnaire involved a set of questions regarding the activities which could either enhance or detract from the conduct of follow-up investigations. In neither case, were there substantial positive changes in investigator responses. This involved both the amount of time spent on dealing with victim and witness inquiries as well as investigator access to analytical information on crime trends and MO's that could help investigators with their day-to-day work.

Section 5 of the questionnaire dealt with some broader questions of time utilization - - largely involving areas which would not be immediately impacted by the OSU. As can be seen from the data displayed in Exhibit VII, pre- and post- implementation responses are either comparable, or reflect some deterioration over time.

Prior to the implementation of the OSU, investigators were asked about their attitudes regarding the potential usefulness of the OSU in assisting them in the conduct of day-to-day investigative activies. Following implementation, investigators were again asked about the helpfulness of OSU in terms of their day-to-day job. In general, the substantial majority of questionnaire respondents, about 75%, were positive about the services provided by the OSU.

In addition to those questions where "forced responses" were required, the questionnaire involved several questions where investigators were asked to enter their own unique and special comments. Exhibit VIII, which follows this page, provides a summary

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#### Burglary investigators, when asked how they could increase their own effectiveness, aentioned the following activities with frequencies as noted below:

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		RENTIONED BY PROPO	RTICN OF RESPOND	ENTS
		PRE-OSU	POST-OSU	
	ACTIVITY	QUESTIONNAIRE	QUESTIONNAIRE	
•	Increase time spent on field interviews; reduce office time.	40.0%	58.3%	
•	Increase time spent on investi- gation and reduce time spent on ancillary, non investigative			
	tasks.	26.7%	8.3%	
	More follow-up on FI activities.	13.3%	-	
•	More direct work and closer working relationship with Field			
	Patrol Officers.	13.3%	8.32	
	Coordination with other agencies.	5.72	15.72	
•	Nore intense geographic speciali- zation - better information on	· ·		
	assigned geographic areas.	6.72	25.0%	
	Nore analysis/research of re-			
	covered stolen property.	13.3%	<del>-</del> .	

 When asked how the department could expand its burglary clearance rate, investigators mentioned the following steps with frequencies as noted below:

NENTIONED BY PROPO PRE OSU QUESTIONNAIRE	RTION OF RESPONDENT POST-OSU QUESTIONNAIRE
46.7%	33.32
40,0%	25.0%
	PRE OSU QUESTIONNAIRE 46.7%

# Jmproved investigation and evidence collection 40.0% 8.3% techniques and performance by Field Patrol Officers. More Field Patrol Officers; more suppression. 41.7% 8.3% More competent clerical assistance. 26.7% Improved coordination of information available in the department. 6.7% 8.3% Improved print analysis capability. - 8.3%

MENTICNED BY PROPORTION OF RESPONDENTS PRE DSU POST-OSU OUESTIONNAIPE OUESTIONNAIRE

 Investigators were asked about their preferences for OSU's impact and services (preimplementation) and their attitude; toward actual impact (post implementation) based on two months' experience with operations.

OSU INPACT	DÉSIRED IMPACT PRE-OSU	ACTUAL ATTITUDE POST-OSU
	•	
Improved coordination of FI results.	13.32	See Below
Improved case preparation to include		
providing enhancement information and tying "loose ends" together.	46.7%	See Belaw
No mention.	53.3%	0.0%
Handling telephone inquiries on inactive cases.		16.72
Provision of suspect information drawn from CJIC/ACES.	See Above	66.7 <b>z</b>
CJIC Rap Sheets for cases teing forwarded to District Attorney.	See Above	16.72
Tying together reports and providing assembled cases on a timely basis.	See Above	16.72

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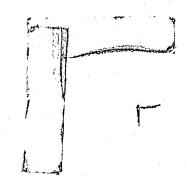
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CANTINET VILL

#### San Jose Pulice Department

COMPARATIVE COMMENTS --PRE- AND POST- OSU IMPLEMENTATION Attitude Survey Responses of Burglary Unit Investigators





analysis of the most frequently mentioned comments on a preand post- OSU implementation basis. Responses in these open ended areas are generally comparable to the responses described and analyzed in Exhibit VII earlier in this section. In general, investigators appear to be most positive about the OSU impact in regard to case enrichment and information enhancement activities. The most frequently mentioned areas of OSU impact involve case enrichment and "tying loose ends together" - - thus providing investigators with a complete case package at the time of assignment.

Like the time utilization data discussed earlier in this chapter, no clear, overwhelming positive conclusion can be drawn as a result of investigator responses. However, it would appear that investigators recognize OSU's impact in terms of case enrichment and case enhancement. From the perspective of the evaluation, this should be viewed as a positive impact.

# (3) Some Modest Shifts In Burglary Caseload Composition Have Been Observed Since Start-Up Of The Operation's Support Unit.

In an attempt to establish both baseline data and to assess preliminary impact of the OSU, Records Improvement System reports were analysed to attempt to identify shifts in burglarly unit caseload composition after start-up of the OSU operation. Exhibit IX, which follows this page, provides some selected processing indicators for burglary cases forwarded to the burglary unit both before and after start-up of the OSU. Previous discussion, centering on Exhibit III, suggested that there was some indication that a higher proportion of assignable cases were in fact being

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#### DISPOSITION OF MONTHLY BURGLARY CASES

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	NONTH	•	NUME	ASSIGNED JER PERCE	BEIN NI INVESTIO		T PROSECUTION COMPLETED	DETER- MINED TO BE UNFOUNDED	INACIIVATED	OTHER CLOSURE
	January	1981	26					-	7.1 %	13.6 %
	December	1980	22				-	• 4	5.7	11.0
O.S.U. Start-up	November	1980	15	9 100.	0 48.4	21.3		1.9	10.1	18.2
	September	1980	17	8 100.	0 51.7	15.7	· <u>-</u>	1.1	8.4	23.0
	August	1980	15	2 100.	0 42.8	17.8	-	.7	9.2	29.6
	July	1980	13	5 100.	0 54.8	16.3	-	.7	7.4	20.7
	June	1980	22	0 100.	0 40.5	8.6	.5	3.2	12.7	34.5
	. Burglary (	Detail	10	3 100.	0 56.3	17.4	1.0		δ.8	18.4
	. Juvenile B	Burglary	11	7 100.	0 26.5	.9		6.0	17.9	48.7
	Мау	1980	19	6 100.	0 45.4	11.2	 	.2.5	13.3	27.5
	. Burglary D	Detail	9	3 100.	0 59.1	21.5	-	1.1	10.8	7.5
	. Juvenile E	Burglary	10	<u>3</u> 100.	0 33.0	1.9	<u></u>	3.9	15.5	45.6
	April	1980	16	3 100.	0 52.8	12.3	.6	2.4	9.3	22.7
	. Burglary D	Detail	. 9		0 62.6	19.8	1.1	1.1	5.5	9.9
	. Juvenile E	Burglary	7	<u>2</u> 100.	0 40.3	2.8	<u> </u>	4.2	13.9	38.9
	Narch	1980	19	4 100.	0 33.5	17.0		3.1	16,5	29.9
	. Burglary [	Detail	10	0 100.	0 48.0	32.0	-	4.0	10.0	6.0
	. Juvenile B	Burglary	9	4 100.	0 18.1	1.1		2.2	23.4	55.3

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San Jose Police Department

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SELECTED PROCESSING INDICATORS FOR BURGLARY CASES

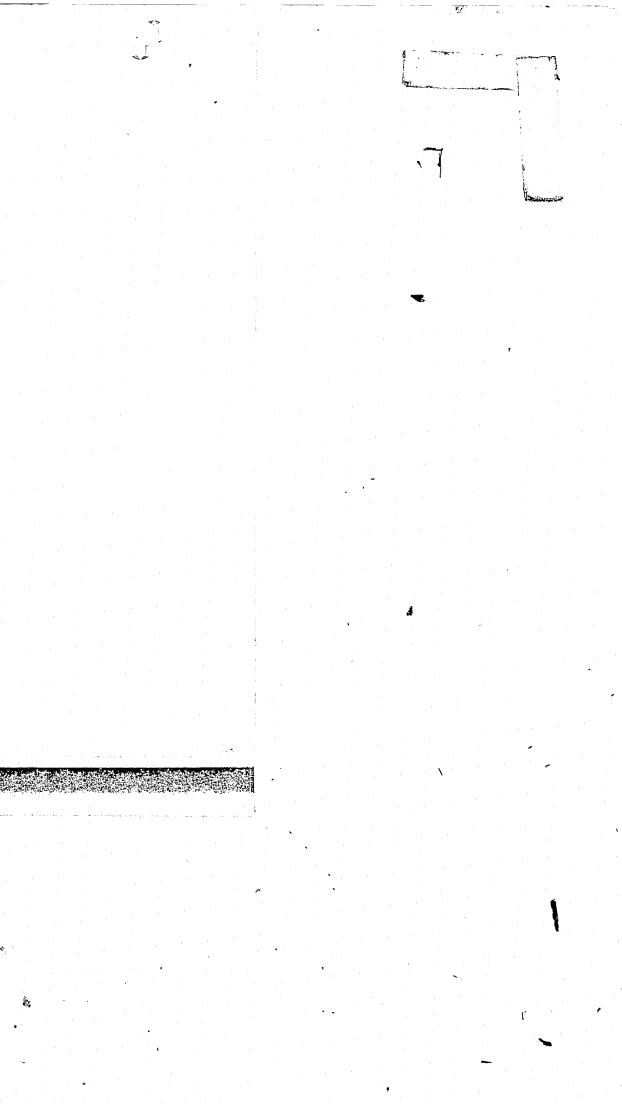
EXHIBIT IX

	ASS	IGNED	8E I NG	COMPLAINT	PROSECUTION	DETER- MINED TO		OTHER
MONTH	NUMBER	PERCENT	INVESTIGATED	FILED	COMPLETED	BE UNFOUNDED	INACTIVATED	CLOSURE
February 1980	151	100.0	32.4	11.2	-	.7	12.6	29.8
. Burglary Detail	66	100.0	54.5	24.2		1.5	18.2	1.6
. Juvenile Burglary	85	100.0	38.8	1.2		<u> </u>	8.2	51.8
January 1980	202	100.0	42.1	19.3	· · ·	.5	9.4	28.7
. Burglary Detail	105	100.0	44.8	35.2	-	.9	13.3	5.7
. Juvenile Burglary	97	100.0	39.2	2.1	<b></b>	-	5.2	53.6
December 1979	144	100.0	45.8	20.1	, <u> </u>	2.1	13.8	18.1
. Burglary Detail	91	100.0	45.1	29.7	-	3.2	7.7	14.3
. Juvenile Burglary	53	100.0	47.2	3.8		· · · ·	24.5	24.5
November 1979	174	100.0	38.5	19.5	· <u>-</u>	<u>1.7</u>	10.9	29.3
. Burglary Detail	93	100.0	44.1	36.6	-	2.1	8.5	8.6
. Juvenile Burglary	81	100.0	32.1	-	•	1.2	13.6	53.1
11 MONTH TOTALS PRE OSU	1,909	100.0	44.4	15.2	.1	. 1.7	11.4	27.2

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assigned for follow-up investigation since the start-up of the OSU. Exhibit IX provides another perspective on assignment policies in the burglary unit both before and after impelementation of the OSU process. The data displayed in the Exhibit portray the number of cases assigned to the burglary unit on a monthly basis starting in November, 1979. In addition, the data then display the monthly status of those cases at the end of a month of assignment. This includes:

- The proportion of cases being investigated by the unit.
- The proportion of cases on which complaints have been filed.
- The limited number of cases received during the month for which prosecution was completed during that month.
- The number of cases reviewed by the unit and determined to be unfounded.
- The proportion of cases inactivated during the course of the month.
- Other cases closed during the course of the month.

As the data in Exhibit IX indicate, there appears to be an indication that a higher proportion of cases are under active investigation at the end of the month since the implementation of the OSU than was the case in the months preceding implementation. This could reflect the impact of enrichment, enhancement, and quality screening activities being accomplished at the OSU level. Several factors need to be taken into account before conclusions can be clearly drawn about the overall impact of OSU on investigative effectiveness. These include the following:

Trends observed in Exhibit IX will need to maintained for a period of 6 to 9 months before any clear shift can be identified. The data displayed in Exhibit IX involving proportion of cases being investigated need to be considered in conjunction with data presented and discussed earlier in this report - - primarily proportions of assignable cases actually worked by investigative staff; the proportion of cases which are assignable of the total cases received - - increases in which could be expected to be a function of enrichment and enhancement activities accomplished at the OSU level; and growth in the trends of complaints filed for burglary cases received and processed by the burglary unit.

Table 3 which follows provides some rough indicators of trends and complaints filed as compared to total cases assigned by the burglary unit on a pre- and post- OSU implementation basis.

Post - 0 11 Month

The data displayed in Table 3 provide a rough comparison of

total cases assigned within the burglary unit to total complaints filed for the period under question. The data displayed in Table 3 have been drawn from Records Improvement Sytem report IR41 and

include: (1) cases assigned within the investigative unit during the period in question; and (2) complaints filed involving all portions of the burglary unit caseload for the period in question - reflecting AC and NC categories on the IR41 report to include cases received during the period as well as complaints filed involving cases previously assigned. While it is too early to determine if a significant trend can be identified, the data displayed in Table 3

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Table 3 Complaints Filed Pre- and Post-OSU Implementation

	- -	(	Complaints Filed
Monthly Average	Assigned	No.	As A % Of Assigned
Post - OSU	247	82	33.4%
11 Months Pre-OSU	174	50	28.6%

suggest a relatively substantial increase in the proportion and number of assigned cases upon which complaints are filed for the two month period since the OSU unit began operations compared to the eleven month period preceding start-up of the OSU.

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As noted at numerous points above, these trends may be extremely preliminary and may not be associated with OSU impact. For example, during the period under analysis, management of the burglary unit was shifted in a variety of new management and case control approaches instituted. Shifts in proportions discussed above may well be a function of these management changes. As will be discussed later in the report, these trends need to be monitored on a continuing basis in an attempt to isolate a defensible OSU impact.

(4) Analysis Of Operations Support Unit Processing Activities Indicates That Useful, Incremental Information Is Added To Cases Before They Are Forwarded To The Burglary Unit For Investigation.

In conducting the evaluation, members of the project team sampled cases handled by the OSU in an attempt to document the impact and content of processing activities. The following procedures were employed to select a sample of cases for analysis:

Cases were randomly selected from OSU files for analysis. These included cases "screened out" by OSU as well as cases forwarded to the burglary unit for additional follow-up investigation.

Each case which was extracted from the file was analyzed in terms of the following data elements:

- The case was classified as a residential, commercial, or other burglary.
- The attached crime report was reviewed to determine if the case included:
  - .. An in custody suspect or suspects.

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at determining: attempted.

> .. For cases in which suspects were named, back-up documents were reviwed to determine the extent to which additional information was provided about that suspect - - for example, a CJIC rap sheet or ACES contact and description. .. For cases in which a vehicle description or license number

were provided, enrichment activities were analysed to determine the extent to which these data produced a vehicle identification and/or were linked to an individual.

.. For cases where suspect descriptions were included, enrichment activities were analysed to determine the extent to which a name or vehicle link could be provided.

OSU disposition of the case as well as dispositon of the case _ by the burglary unit, in terms of assignment and/or complaint filed, were also tallied as a result of the sampling exercise.

Exhibit X, which follows this page, summarizes the result of the case sampling analysis. The Exhibit divides our analysis of cases

- A suspect name.

A suspect description.

A vehicle description or license number which could legitimately be linked to a potential suspect.

- No basic solvability information.

Both the cover sheet and attached information sheets were reviewed to document the nature, scope and results of enrichment activities undertaken by the OSU. Analysis was directed

- The number of cases on which some enrichment activity was

The results of that enrichment activity to include differentiation between the following types of information:

.. Expansion of basic data contained in the offense report. For example, this would include a case which involved an in-custody suspect on which OSU staff were asked to run CJIC and ACES checks. If these checks were conducted and they provided information about the in-custody individual, this was recorded as a "hit" for the system's query.

Overall, approximately 500 cases, representing about 15% of total cases processed by the OSU through the end of January, 1981, were sampled and analysed according to the criteria listed above.

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			INDICATORS OF OPERATIC SUPPORT UNIT PERFORMAN	INS IS					ΕX	KHIBIT
LL COMPOSITION OF SCREENING	ACTIVITIES		SUPPORT UNIT PERFORMAN	UE		•				
· · · · · · · · · · · · · · · · · · ·						•				
mposition of Cases Received		. Disposition of Cases by the (	DSU:			2				
•						- Cases forwarded to Burglary		- Enrichment d	•	
Residential Burglaries:	72.9%	- Held by the OSU:	79.9%		4	by the usu where no firm			of comments by	
Commercial Burglaries:	23.2%	- Forwarded to Burglary				solvability elements in- cluded:	6.3%	the OSU (lin	rs assigned to	
Other Burglaries:	3.9%	Detail for Investigation:	20.1%			cluded:	0.3%	etc.)	King cases,	3
	3.9% 100.0%		20.1% 100.0%					ett.)		3
		. Characteristics of Cases Form				3. RESULTS OF CASES FORWARDED TO BUR	GLARY AFTER O	JSU SCREENING		
aracteristics of Cases Recei Luding Solvability Elements		to the Burglary Detail by OS						······································		
inding corvability fremene.	-	co the barging becam by our	_			. Disposition of Cases Forwarded			s of Cases For Wh	
In-custody suspects:	7.2%	- In-Custody Suspects:	33.4%		2	the Burglary Unit After OSU Sc	reening		ary Detail After	Proce
Named Suspects:	6.7%	- Named Suspect:	32.2%			and Enrichment.		<u>osu</u> .		
Person or vehicle		- Person or vehicle				4 · · · · · · · · · · · · · · · · · · ·		<b>•</b> • • •		
description:	7.9%	description:	30.1%		Monanning of the second s	- Complaint Filed:	24.6%	- Suspect in c		
No Leads:	78.2%	- No Firm Leads:	4.3%		and the second se	<b>. . . . . .</b>		case receive	ed by Burglary:	69
	100.0%		100.0%			- Assigned and investigated		*1 * *	· ·	
	ananana kata da ang sa				and a second secon	and either inactivated,		- Name provide		
						transferred to other jur-			ditional inform-	
RESULTS OF OSU SCREENING	AND CASE ENRICHMEN	I ACTIVITIES				isdiction, or closed with-	00 0 m		ded as a result	
						out prosecution:	22.2 %		nt/enhancement	
chment Activities For All	Uases	Enrichment Activities For Al				<ul> <li>Not worked because man-</li> </ul>		activities a OSU:	accomplished by	24
arded to Burglary:		Screened by the OSU and Forw	arded to the Burglary				24.6%	030:		24
		Detail.				power unavailable:	24.0%	News an new	son/vehicle de-	
ases where some en-				1		- Not worked because in-				
ichment was attempted:	87.9%	- Cases where some enrich-							rovided in crime	
		ment was attempted:	85.2%			sufficient leads in case			no additional	
Cases where enrich-	•				n dan njevena a	to justify assignment to	30 EW		provided as a	
ent was attempted and		- Cases where enrichment			- Andread	an investigator:	28.6%		nrichment/enhance	
some incremental in-		was attempted and some			an province of the Andrea		100.0%		ties accomplished	
formation added as a		incremental information						by OSU:		6
result of those enrich-	50.00	added as a result of		1	are data and the second se			- No leads in	initial raims	
ment activities:	58.2%	those enrichment activi-			Se porte anti-			- No leads in report:	Initial Grime	
		ties:	52.5%					1 epoil.		100
ancement of Reports As a R	sult of OSH	. Source of Enrichment Data Pr	ovided By OSU Activiti	es s						
sult of OSU Screening and C										
tivities	· · · · · · · · · · · · · · · · · · ·					7 mar - 1978				
						. Relationship Betwe	en OSU Enrich	nment of Cases And Burg	lary Unit Disposi	ition
Cases where solvability		- No additional data provid				of All Cases Receiv	ed.	· · · · · · · · · · · · · · · · · · ·		
elements included in		beyond information contai					-			
report prepared by	01 194	in the report. Enrichmen			-		DISPO	DSITION OF CASES BY BUR	GLARY UNIT	
ield Officer:	83.1%	activities not attempted						NOT INVES-		
		no "hits" made as a resul	τ					TIGATED		
Cases where solvability		of information system	11 00,				COMPLAINT	NO MAN -	NOT	
lements added as a result		queries:	41.8%					NVESTIGATED POWER	WORKED TOT	TAL
f enhancement by OSU	60 69	Frank ( )					······································			
taff:	60.6%	- Enrichment data provided					(P	PERCENT)	<u> </u>	
		as a result of querying/								
		searching information sys			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Cases on Which OSU				
		tems available to the SJP	D: 54.9%			Made Enrichment Hi	t 31.1	24.6 19.7	24.6 100.	.0
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FILED         INVESTIGATED         POWER         WORKED         IDTAL          Percent           Cases on Which OSU           Made         Enrichment Hit         17.6         23.5         27.5         31.4         100.0         -           Cases on Which No           Enrichment Hit         Made         5.3         10.5         57.9         26.3         100.0         -	ection l of l f cases rece n relation to	•			mana bi nanandi'un turing saka manja 'n yeren de						11		CASES BY B Not inves-	OSITION OF		
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Cases on Which No Enrichment Hit Made 5.3 10.5 57.9 26.3 100.0 -	burglarie The princ									0.0	10	31.4	27.5	23.5	17.6	
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	In general warded to assignment third of t in-custody informatic descriptic				and a second											
	in this ca generally pose a pul priority l irtually all	•														

Virtually all cases forwarded to burglary are subjected to enhancement and enrichment activities by the OSU. Section 2 of Exhibit X provides some perspective on the content and results of enrichment and enhancement activities undertaken by the OSU.

he OSU into three distinct categories:

11 summary of the composition of initial screening
es.

of some broad indicators of the results of OSU g in case enrichment activities.

of the results of cases forwarded to burglary after ial OSU screening to include some attempt to link OSU nt activities to the ultimate disposition of those cases urglary unit.

I conclusions which can be drawn from the data displayed

include the following:

l of Exhibit X provides an overview of the composition received by the OSU in screening activities accomplished ion to those cases. The section indicates that:

is "screening out" approximately 80% of burglary cases ived by the San Jose Police Department. These cases approximately 73% residential burglaries, 23% comial burglaries, with the remainder being miscellaneous laries - - largely involving schools.

principal reason that cases are screened out are the of solvability elements available in the body of the e report as a result of enhancement and enrichment vities accomplished by the OSU. Approximately 78% of cases received by the OSU contain no leads. The great rity of these cases are "screened out" by the OSU.

eneral, only cases with some potential leads are fored to the burglary detail for review and potential gnment. As shown in Exhibit X, approximately oned of the cases forwarded to burglary by OSU involve ustody suspects; about 32% contained named suspect rmation; approximately 30% involve person or vehicle riptions; and only 4% contain no firm leads. Cases his category which are forwarded to burglary by OSU rally involve large losses, property stolen which could a public safety risk, and other cases assigned high rity by the department.

- As shown in the Exhibit, the great majority of cases forwarded to burglary are subjected to enrichment and enhancement by the OSU. Of the sample analyzed by the project team, nearly 88% of the cases which were ultimately forwarded to burglary involved some attempt to enrich and enhance information contained in the basic crime report.

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In general, it appears that a high proportion of enrichment and enhancement activities are successful. Analysis indicated that, of those cases forwarded to burglary, and subjected to enrichment and enhancement activities. more than 58% involved the addition of some incremental information beyond data contained in the basic crime report. It should be noted that this proportion includes the provision of new suspect information as well as provision of additional information about individuals already named in the report. For example, this would include the production and attachment to the report of CJIC and ACES output for in-custody suspects.

It is interesting to note that enrichment activities are nearly as successful for non-in-custody cases as they are for in-custody cases. Of the non-in-custody cases forwarded to burglary by the OSU, enrichment attempts and delivery of incremental information are proportionately the same as those observed for in-custody cases. As noted in Exhibit X, non-in-custody cases are subjected to enrichment 85% of the time with approximately 52% of those cases resulting in the addition of incremental information as a result of enrichment activities.

An attempt was also made to determine the proportion of cases in which "new" information was added as a result of enrichment and enhancement activities. OSU impact in this area was approached from two perspectives as shown in Section 2 of Exhibit X. These include the following:

Analysis indicates that OSU has had some impact on adding solvability elements to cases prior to their forwarding to burglary. Case sampling indicated that approximately 10.6% of those cases forwarded to burglary included instances where solvability elements had been added as a result of enhancement by OSU staff.

Information system queries appear to be the major source of case enrichment and enhancement. Of the cases forwarded to burglary where enhancement was attempted, over half those cases involved the addition of incremental information as a result of querying or searching information systems. A small proportion of those cases - - approximately 3.3% - involved enrichment data provided as a result of the individual knowledge of OSU sworn staff assigned responsibility for review in cases.

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Section 3 of Exhibit X traces the results of cases forwarded to burglary after OSU screening. As can be seen from the data displayed in the Exhibit, there are indications that OSU activities can be linked to instances where burglary unit activities have culminated in the filing of a complaint against the suspect. Section 3 of Exhibit X displays the characteristics of cases for which complaints were filed by the burglary detail after processing by OSU. Sample data indicated that approximately 24% of the cases upon which complaints were filed involved cases in which a suspect was not in custody at the time the report was received and that OSU activities provided additional name or vehicle information through enrichment and enhancement activities. .

gation.

In total, the results of the case sampling activity clearly

indicate that OSU is providing "incremental value" to cases forwarded to burglary. Case enrichment and enhancement activities appear to have significant impact in terms of providing incremental information to cases prior to their receipt by the burglary detail, and also appear to have a direct relationship to burglary detail "success" in dealing with those cases once received.

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As noted earlier in this section, a rather significant proportion of available staff time (approximately 8% of total work hours expended) has been devoted to audit of the CAPS log to ensure that field patrol officers have prepared and submitted crime reports for

Section 3 of Exhibit X also attempts to establish a relationship between OSU enrichment and enhancement activities and ultimate disposition of cases by the burglary unit. Analysis addresses all cases forwarded by the OSU to the burglary unit and isolates the body of cases in which a suspect was not in custody at the time the report was received by the OSU. In both instances. there appears to be a direct relationship between the success of OSU enhancement and enrichment activities and the ultimate disposition of cases by the burglary unit. A significantly higher proportion of cases in which OSU had enrichment and enhancement success involve either ultimate filing of a complaint by the burglary unit or submission of the case to some degree of investi-

# (5) Audit Activities Appear To Have Had Some Impact On The Timeliness And Completeness With Which Crime Reports Are Prepared And Submitted By Field Officers.

all burglary and burglary related incidents. The purpose of the audit is to ensure that reports are submitted when required, and that those reports are submitted on a timely basis. During the period from the start-up of the OSU project in November, 1980 through the end of January, 1981, audit activities have resulted in the identification of 49 missing reports. This represents approximately 1.5% of total burglary cases processed by the OSU. Analysis conducted by the manager of the OSU suggests that a significantly smaller proportion of these reports are in fact actually missing. During the period from start-up through the end of January, 1981, of the 49 missing reports noted above, actually only 8 had not been prepared and submitted by field patrol officers when required. The remaining reports were either delayed in distribution from field patrol through the records unit to the OSU; were incidents noted 'in the log for which reports were actually not required: and the like. The 8 missing reports represents approximately ,2% of total cases processed by OSU during the period from start-up through the end of January.

Audit activities have also focused on reports which have been . prepared but have not been submitted through channels on a timely basis. Audit activities resulted in the identification of approximately 51 burglary reports which arrived at the records unit in excess of two days from the date of the incident. These late reports represent an additional 1.5% of the total cases processed by the OSU.

For both late and non-existent reports, OSU activities have included follow-up to ensure that reports are submitted by

TO DATE.

Establishment of the unit has provided an opportunity to streamline and upgrade records processing activities; to better coordinate available information systems within the department to support investigative activities; and to focus management accountability for both case processing and investigative activities.

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responsible field patrol officers. Based on continuing follow-up by OSU, virtually all missing and late reports identified through audit have been accounted for. Over the long term, it can be expected that the existence of audit acitivites will influence field patrol officers and supervisors to ensure that reports are prepared and submitted on a timely basis.

# 4. MANAGEMENT EMPHASES AT THE OSU AND BURGLARY UNIT LEVELS CAN BE ASSOCIATED WITH THE POSITIVE FEATURES WHICH SURROUND OPERATIONS

To this point, the evaluation has focused on the establishment OSU as a process and has measured OSU impact from the process perspective. Our analysis indicates that process is only part of the equation in terms of the apparent, positive impact that OSU has had on investigative operations since its establishment. The establishment of the process has set the stage for improved and visible management in regard to the entire process of dealing with burglary cases within the San Jose Police Department. Consider the following:

> Establishment of the OSU has focused attention on departmental success and effectiveness in dealing with burglary cases.

Response in the area of management has been a major contributor to successes achieved to date.

> Managers at both the OSU and burglary unit levels are employing analysis of quantitative indicators to monitor unit performance and tighten day-to-day operations.

Managers have effectively identified and are focussing on key issues which impact both case processing and burglary unit

# efficiency and effectiveness.

Managers have shown enthusiasm for the OSU concept and have made a commitment to make it work.

Management attention has been focused on increasing staff productivity at both the case processing and investigative level.

In summary, management activities observed to date are a critical element for the successful implementation of the OSU concept in the San Jose Police Department. To a great extent, experiment with the concept has provided the opportunity for these managers to employ their skills and address efficiency and effectiveness issues. The importance of the OSU process in providing this environment for improved management cannot be overstated.

# 5. WHEN VIEWED FROM THE INVESTMENT PERSPECTIVE, THERE ARE COMPELLING REASONS TO MAINTAIN THE OSU APPROACH IF THE PRELIMINARY SUCCESSES INDICATED IN THIS EVALUATION ARE MAINTAINED OVER THE COMING MONTHS.

As noted earlier in this report, it is clearly too early to tell if OSU is having major impact on significantly increasing the efficiency and effectiveness of the investigative process related to burglary cases in the San Jose Police Department. However, most preliminary indicators suggest a positive impact.

> While it is too early to identify trends, there appear to be some significant shifts in indicators related to the functioning of the burglary unit and successes it is achieving.

- All analysis indicates that OSU, as a unit, is accomplishing something. Enrichment and enhancement activities appear to have significant impact on the nature and quality of cases forwarded to the burglary detail for assignment and investigation.
- All indicators suggest that the entire case processing and investigative process is being tightened as a result of the establishment and testing of the OSU concept.

Overall, the decision of whether or not to continue the OSU once grant funding expires is essentially an investment decision

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for the San Jose Police Department. As noted earlier in this report, the real incremental cost of the unit is limited - involving primarily the unit manager, one sworn officer assigned to the unit, and the staff analyst position. In total, this represents an incremental investment of approximately \$100,000 per year. One way to look at the validity of this investment is the potential impact of OSU activities if successes registered to date are maintained. Some national studies have indicated that the average burglar, over the course of a year, will steal approximately \$100,000 per year with a net return to the burglar, considering fencing prices, of approximately \$25,000 in income. From the investment perspective, if the OSU is successful in apprehending an additional four burglars per year, an investment return of four to one has been achieved through establishment of the unit. Considering

some of the indicators related to the impact of enrichment and enhancement information on burglary assignment and complain filing practices noted earlier in this report, an annual increase of four burglar apprehensions may significantly understate OSU's impact. If so, the unit presents a relatively low-risk opportunity to provide a relatively high return on investment. If only four burglars are pulled off the street as a result of improved coordination of case processing and investigative activities, the return on the OSU investment is four to one. Considering the relatively minimum nature of the investment, it would seem to us that the OSU concept and implementation should receive close attention from the management of the San Jose Police Department.

Clearly, it is too early to pull out of the OSU experiment. All

activities undertaken to date have been directed toward making it a successful investment - - from both the process and impact perspective:

To date the entire process has been surrounded by effective management at both the OSU and burglary unit level.

The process has been implemented without significant expenditure of funds on sophisticated systems and processes. Essentially, it has involved the reorganization of existing resources within the San Jose Police Department to increase the efficiency and effectiveness with which they are applied.

While operation of the unit still involves an investment risk decision, it is our conclusion that exposure is minimal and the potential return high. For these reasons, the experiment should be continued, monitored to ensure preliminary indications of success are achieved, and expanded if monitoring results tie preliminary successes to a continuing pattern.

# 6. THERE_ARE SELECTED ADJUSTMENTS WHICH SHOULD BE CONSIDERED TO ENHANCE THE EFFECTIVENESS OF THE OSU PROCESS.

During the course of the evaluation, the project team identified

several areas which ought to be considered as the experiment with the

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OSU continues. These issues include the following:

Given the relatively low frequency of unprepared, unsubmitted, or untimely crime reports, the hundred percent audit of the CAPS log could be reduced without having major detrimental impact on OSU effectiveness. In that the audit currently consumes approximately 8% of available staff time, and a relatively low hit rate in terms of unsubmitted reports, it appears that much the same end could be achieved through periodic, random audits of these CAPS log to identify missing reports. 100% samples of four or five days per month to identify trends in missing reports and untimely reports could probably achieve the same results, freeing staff time for other OSU activities with higher impact on the efficiency and effectiveness of the investigative process. As an alternative, attention should be given to automating the audit process.

As noted at numerous places throughout this report, it appears that the enhancement and enrichment activities of the OSU staff are having payoff. Considering their importance in terms of enhancing the efficiency and effectiveness of the investigative process, it appears that much could be achieved by formalizing investigator feedback to staff involved in the enhancement and enrichment activities. While recent steps involving requesting

investigators to note results on the back of face sheets provides some feedback to OSU staff, the impact of the enrichment and enhancement process could probably be improved on a continuing basis if this feedback mechanism were formalized. Conduct of periodic group meetings involving investigators from the burglary unit and OSU staff to discuss enrichment and enhancement results, problems, and issues could have positive impacts on both sides of the equation. This would enable enrichment and enhancement staff to get some feedback regarding the impact of what they are doing, as well as enabling investigators to communicate to enrichment and enhancement staff key issues and areas where activities might be improved. A formalized feedback process, in the form of such a group meeting, should be seriously considered by both OSU and burglary unit management.

While it is recognized that the OSU is in its infancy, some attention should be given over the coming months to the capacity of the existing unit to handle additional workload if the OSU concept is expanded to other crime types and investigative units. While the evaluation did not include detailed work measurement of OSU staff, there are some potential indications that excess capacity may exist in the unit during certain days of the week. While incoming workload, in terms of burglary cases, is subject to significant peaks and valleys, the existence of excess capacity should be closely monitored to determine if OSU, if maintained by the department, has the capability to assume additional processing, enrichment, and enhancement responsibility for other crime types. No decision should be reached on the capacity issued until OSU has its full service scope in operation. Assumption of property handling and processing; increasing involvement in handling victim/ witness queries; and expansion of indexing activities all can have major impact on the capacity question.

There appears to be an opportunity to increase the effectiveness of the enhancement and the enrichment process by the provision of a second computer terminal with printer capability in the immediate area of the OSU unit. Provision of that second terminal would increase the unit's input capabilities: would provide immediate resources for assigned sworn staff to use information systems as part of their case review, enrichment, and enhancement process; and would upgrade opportunities for utilizing staff assigned to the OSU unit. While terminals are available elsewhere in the police building, the provision of a second terminal in the immediate area of the OSU unit would clearly facilitate day-to-day operations and staff employment effectiveness.

In summary, the OSU experience to date appears to be a positive

one. Management and staff commitment, the relatively minimal investment in the OSU concept considered in the light of the

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potential impact which could be achieved, and the repliminary indications of success achieved to date all indicate that the experiment should be continued by the San Jose Police Department, and assessed for expansion potential once operations related to burglary cases are firmly in place.

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# II. RECOMMENDED EVALUATION APPROACHES

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#### II. RECOMMENDED EVALUATION APPROACHES

Over the coming months, it will be important for the San Jose Police Department to maintain a continuing evaluation of the OSU and its impact on investigative operations. To the extent possible, evaluation approaches should meet the following criteria:

> Draw on existing data sources to the extent possible, limiting staff time requirements necessary to collect and manipulate data.

Be able to be accomplished by in-house staff. Given the intensive evaluation focus accorded the OSU process over recent years, subsequent in-house evaluation activities should be able to "update" previous evaluations accomplished by outside consultants without expending more departmental funds on contractual assistance.

Continue to focus on both impact, as measured by indicators of burglary unit operations, and content, as measured by the nature and scope of services accomplished and provided by the OSU.

The paragraphs which follow suggest a framework for continued in-house evaluation of the OSU to support departmental decision making once external grant funds are no longer available.

IMPACT MEASUREMENT

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Impact measurement should be directed at attempting to assess OSU effect on two key areas: (1) Trends in complaints filed by burglary unit investigators; and (2) extent to which a higher proportion of burglary cases received by the department are assigned to and worked by burglary unit investigators. Measurement data and subsequent conclusions can be developed as follows:

> Complaints filed Data: On a monthly basis, compute complaints filed as a percent of both cases received in total and as a percent of assignable and assigned cases as reported for the burglary unit. Draw data from the RIS system IR41 and IR43 reports as follows:

- On a quarterly basis, compare percents with the baseline

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data provided in the first chapter of this report and note differentials based on the following questions:

- ... Have total complaints filed as a percent of burglary cases received increased compared to the pre- OSU implementation baseline period?
- ... Have total complaints filed as a percent of assignable and assigned cases (within the burglary unit) changed since the pre- OSU implementation baseline period?

Assigned and Assignable Cases Data: Again, on a monthly basis, employ the IR41 and IR43 reports to track trends in the proportion of cases which receive some degree of investigative attention. To the extent that this proportion increases, some link can be assumed between the impact of OSU's enhancement and enrichment activities and the "workability" of cases. Draw data from the RIS system IR41 and IR43 report as follows:

- Total burglary cases received by the department and handled by the OSU - - in other words, all those cases which previously would have gone directly to the burglary unit for screening and potential assignment.

- Percent of cases received which, after receipt, are classified as "assignable" by the burglary unit.

- Percent of cases actually assigned within the burglary unit compared to:

.. Total cases received by the unit.

.. Cases classified as "assignable" by the burglary unit.

- The data and computations noted above should then be tested, on a quarterly basis, against the following auestions:

- .. To what extent are a higher proportion of burglary cases assigned and worked compared to total burglary cases received by the department than was the case in the pre- OSU implementation period?
- .. To what extent are a higher proportion of burglary cases classified as assignable by the burglary unit when compared to total burglary cases received by the department than was the case during the pre- OSU implementation period?
- .. Has the proportion of cases assigned and worked increased compared to total classified as assignable when

compared to comparable proportions describing performance during the pre- OSU implementation period?

Once computed, these percentages should be considered in relation to each other in addition to comparison with the pre- OSU implementation period.

# 2. PROCESS AND CONTENT MEASUREMENT.

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Process and content measurement should focus on maintaining a continuing portrait of what the OSU process is achieving in terms of case screening, enrichment, and enhancement activities. Data elements which should be collected and reviewed on a monthly basis include the following:

> Total cases received by type (i.e. residential burglaries: commercial burglaries; other burglaries) during the course of the month.

Number and type of cases screened out and "owned by the OSU" and number and type forwarded to burglary for review and assignment.

In addition to the broad volume data noted above, monitoring and data collection activities should focus on the content of what OSU activities are accomplishing in regard to case enrichment and enhancement. There are essentially two ways to collect and portray these performance data:

Tally information for all cases received and processed.

Conduct periodic sampling of cases on a monthly basis to develop indications of unit performance.

Given the volume of workload processed by the OSU, tallying of performance on all cases received would probably impose an unnecessary extra workload impact on staff. Experience dictates that the same results, from the management and decision making perspective, can be

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produced through periodic sampling of a portion of the cases dealt with by the unit. To this end, toward the end of each month, a sample equiva-. lent to 15% to 20% of the total cases processed by the OSU should be retrieved from the unit's files. While more sophisticated techniques such as assignment of random numbers could be employed to ensure the randomness of the sample, simple selection of the required number of cases from the various Julian dates contained in the files is probably sufficient to ensure the development of representative data. Given this sampling approach, the following data elements should be tallied on a continuing basis: Characteristics of the case in terms of basic solvability

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- Named suspect(s).

- Suspect description.

- No leads.

Enrichment activities accomplished by OSU, measured as follows:

- Provided background information on an in-custody suspect (i.e. CJIC rap sheet; etc.).

- Linked in-custody suspect to other potential offenses through ACES check or the like.

elements contained in the initial offense report to include specification of the nature of the solvability data such

- In custody suspect(s).

- Vehicle license number.

- Vehicle description.

- Provided background information (criminal history, etc.) on a named suspect.

- Linked named suspect to other burglary case or to the area of the offense in question (e.g. through ACES check.

- Provided named suspect based on vehicle data contained in the offense report to include background data about that suspect through check of other systems.
- Provided potential license numbers and potential suspects' name(s) based on vehicle description contained in the offense reports.
- Checked information systems but provided no incremental data.
- Dispositon of the case by the OSU to include:
- Case held and "owned" by OSU.
- Forwarded to burglary unit for review and/or assignment.
- Disposition of the case by the burglary unit based on RIS code entered on the face sheet sent to and returned by the burglary unit.

Appendix B to this report includes a sample form which could be employed to conduct this monthly sampling of OSU cases.

Once sampling activities have been completed, the data should be summarized to portray the following relationships:

- . Nature of cases in terms of solvability elements, received and screened by the OSU.
- Results of enrichment activities compared to the characteristics of cases received.
- Burglary unit disposition compared to the results of OSU enhancement and enrichment activities.

# 3. OTHER EVALUATION CONSIDERATIONS.

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There is one additional data element which the department may wish to consider monitoring as a partial indicator of OSU impact - that portion of burglary arrests and bookings which culminate in 849 releases. Exhibit XI, which follows this page, drawn from Santa Clara County's CJIC system, shows 849 releases for the San Jose Police Department and other Santa Clara County law enforcement agencies for the



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# EXHIBIT AL

San Jose Polire Department

COMPARATIVE 849 SANIA CLARA County Law Enforcement Agencie

period 1975 through 1979. Data shown in the exhibit show burglary arrests recorded in CJIC for each of the calendar years in question and the number and percent of those individual CJIC events which culminated in 849 releases.

D.

Based on planned adjustments to CJIC, comparable data should be available for 1981 and subsequent calendar years upon request by the department.

Some care needs to be taken in interpreting any positive or negative shifts in the 849 release rate as a plus or minus for the OSU. While enhancement can be expected to positively impact case quality and expeditious processing can hopefully reduce the odds that complaints for in-custody cases can be filed before the "clock" expires, field officer performance probably has more impact on 849 release issues. Accuracy in charging; understanding of the detailed elements of proof related to the offense; and on-scene evidence collection are probably of far more import in terms of impacting the 849 release rate than the immediate activities of the OSU. To the extent that the OSU begins to provide feedback to the Bureau of Field Operations in general and specific field officers in particular as a result of case review activities, some positive impact in the 849 area could be associated with OSU services and activities.

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# APPENDIX A

SAMPLE OUESTIONNAIRE EMPLOYED TO ASSESS INVESTIGATOR ATTITUDES

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# Questionnaire for Burglary Investigators

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1.	Of the cases <u>assigned to me</u> for follow-up investigation:	1 A					the second second			a ban Annajan ing sa		
	la. I spend only a <u>small portion</u> of my time reviewing crime reports where no real follow-up is feasible.									, dag ang sing sing sing sing sing sing sing si		3b. I spend a lot of time manual data or record the case.
	lb. Generally my caseload has a <u>high pro-</u> portion of cases with leads that can be followed-up.										4.	In performing follow-up inv burglary cases: 4a. I have to spend exces
	1c. "Dead end" cases significantly reduce the time I can spend on cases with a higher		- - - -									va. I have to spend exces responding to inquiries witnesses on the statu
	probability of success. ld. The largest % of my time is spent on in-custody cases.									•		4b. I am kept adequately in trends and MO's that ca investigative work.
	1e. I can adequately work cases with suspects (not in-custody) or vehicle									•	5.	In utilizing the time I have investigative work:
	description. 1f. I can adequately work cases where it	• • • • •		: 								5a. Handling/releasing reco requires excessive time day.
2.	might be possible to generate suspects. The initial crime reports assighed to me for follow-up:										()	5b. Time is wasted in obtain of a complaint.
	2a. Generally have data gaps which should have been filled by the responding patrol officers.		1.1									5c. I can devote an adequat in "proactive" work in area I am assigned.
	2b. Generally are received by me in a timely matter.											5d. J have to spend excessi writing reports.
	2c. Generally are accurate in the data pro- vided.							unan and a manager a state of the				5e. I have to waste much of coordinating cases goin
	2d. Generally, cause me no problems in responding to in-custody cases.									•		5f. The largest % of my tim the office.
3.	When I receive an assigned case:			· · · ·	a Alana A				· ·			5g. The largest % of my tim the field.
	3 _{a.} I have to spend a lot of time accessing automated information systems or records to support my investigation.								£7	تى بويىنىي بىلىدىن قارىيىلى مى بىرىيىنى تەرىپىيە بىرىيىنى قارىيىلى بىرىيىنى بىرىيىنى بىرىيىنى بىرىيىنى بىرىيىنى	6.	At present, my effectiveness if I could spent more time of
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could be improved n:

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7.	Currently, caseloads among investigators in the burglary detail generally seem to be equitably distributed.											
8.	Overall, I generally am able to spend most of my time on work activities which are productive and worthwhile.							ACCOUNTS AND	-			
9.	Overall, the most important thing the <u>depart</u> - <u>ment</u> could do to increase its burglary clear- ance rate would be:						·	and a second second second				
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10.	I feel my own case clearance rate could be improved by:							and the second second	CARLON CONTRACT, AND CARLON	میں روایہ بالا ہوتی ہیں۔ موجوعہ میں		
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11.	In general, my existing caseload is excessive given what actually can be done on these cases.			·Z						na star na star star star star star star star sta		
12.	The activities of the Operational Support Unit are helpful to me in performing my job.									and the second se		
13.	Of the assistance provided to me by the Operational Support Unit, the best help comes in the areas of:									ann an 1917 a stàite an 1917 anns		
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# APPENDIX B

SUGGESTED DATA COLLECTION SHEET FOR MEASURING O.S.U. MONTHLY PERFORMANCE

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